

Issued 1964-08
Revised 1975-03
Stabilized 2012-12
Superseding ARP866A

**Standard Values of Atmospheric Absorption
as a Function of Temperature and Humidity**

RATIONALE

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FOREWORD

ARP 866, issued in August 1964, has served as the basis for many analyses of noise propagation and for correcting sound pressure levels measured under given atmospheric conditions to specified reference atmospheric conditions. It has been apparent for some time, however, that some changes were required to improve the consistency of determining atmospheric absorption coefficients over a wide range of temperatures and humidities.

In the original ARP 866, atmospheric absorption coefficients were presented for 1/1- and 1/3-octave bands of noise, but only in a graphical form and for a few selected values of relative humidity. It was necessary, in many practical cases, to interpolate between the plotted curves. This need to interpolate or extrapolate, resulted in problems with repeatability and accuracy in the determination of absorption coefficients. This revision of ARP 866 preserves the original concepts of the 1964 version but replaces the various curves with mathematical representations more suitable for machine computation. It also provides tabulated values of atmospheric absorption coefficients in dB/1000 feet for 1/1- and 1/3-octave bands of noise, with center frequencies between 50 and 10,000 Hertz, for temperatures ranging from 1 to 100°F (in 1-degree intervals) and for relative humidities ranging from 1 to 100% (in 1-percent intervals). Procedures are also indicated for calculation in International Units with temperatures in degrees Celsius and absorption coefficients in dB/100 meters.

Use of the modifications described in this document should eliminate some of the inconsistencies that resulted from use of the August 1964 version of ARP 866 and should thereby provide for improved uniformity in analyses of the propagation of noise under varying atmospheric conditions.

PREPARED BY

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STANDARD VALUES OF ATMOSPHERIC ABSORPTION AS A FUNCTION OF TEMPERATURE AND HUMIDITY

1. INTRODUCTION

There are a number of factors which influence the propagation of noise from an aircraft to a point on the ground. The purpose of this ARP, however, is to consider only the classical and molecular absorption of sound energy by the atmosphere. Spherical divergence, scattering, refraction, and other effects should be treated separately.

This ARP describes a method by which values can be obtained for the absorption of sound in air over a wide range of temperature and humidity conditions. Although it was developed primarily for use in evaluating aircraft flyover noise measurements, the information should be applicable to other noise problems as well.

The method presented is based on the theories of Kneser (References 1 and 2) and Evans and Bazley (Reference 3), the laboratory results of Harris (References 4-7), and field data from various sources (References 8-10). Although the final information was used from these sources only, the works of many other individuals and groups were used to arrive at a selection of the present method.

The experimental results of Harris (Reference 4), were obtained for a single temperature of 20°C (68°F). Essentially, these data were used and curves based on Kneser's theory were modified to fit them. The modified curves then served as a basis for obtaining values over a wide range of temperatures, humidities and frequencies. Once these curves were established, they were compared with field results to select a method for predicting absorption values for bands of noise by using the absorption value for a single frequency.

Since ARP 866 was first published in 1964, considerable data on the atmospheric absorption of sound have been collected, e. g., References 11, 12, 13 and 14. Most of these studies have indicated that, on the average, the atmospheric absorption coefficients determined by the method described herein are quite close to the measured values over a reasonably wide range of air temperatures and relative humidities.

The purpose of this reissue of ARP 866 is to describe a mathematical procedure for determining atmospheric absorption coefficients that is suitable for use with machine computation techniques. Use of the mathematical representations of the various curves involved in the calculation routine should improve the precision and repeatability of determining atmospheric absorption coefficients. The calculation procedure is used to determine atmospheric absorption coefficients for 1/1- and 1/3-octave bands of noise, for air temperatures ranging from 1 to 100°F and relative humidities from 1 to 100 percent. The calculated coefficients are presented in tabular and graphical forms. The tabulated coefficients provide a convenient method of reading all 1/1- or 1/3-octave band coefficients on one page for a variety of temperatures for a given relative humidity. The graphical forms use expanded scales for improved legibility and for easy comprehension of the dependence of the absorption coefficients on frequency, temperature, and humidity.

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2. SYMBOLS

freq	Frequency, Hz
h_a	Absolute humidity, gm/m ³
h_{molmax}	Absolute humidity for maximum molecular absorption, gm/m ³
$h_{normalized}$	Normalized absolute humidity, ratio of h_a to h_{molmax}
RH	Relative humidity, percent
temp	Air temperature, degrees Fahrenheit or Celsius
α_{class}	Classical absorption coefficient, dB/1000 ft or dB/100 meters
α_{mol}	Molecular absorption coefficient, dB/1000 ft or dB/100 meters
α_{molmax}	Maximum molecular absorption coefficient, dB/1000 ft or dB/100 meters
$\alpha_{normalized}$	Normalized molecular absorption coefficient, ratio of α_{mol} to α_{molmax}
α	Atmospheric absorption coefficient, sum of α_{class} and α_{mol} , dB/1000 ft or dB/100 meters.

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3. BACKGROUND

According to the theory presented in Reference 1, there are two principal mechanisms by which sound energy is absorbed when propagating through the atmosphere. These mechanisms are termed classical absorption, which is a function of frequency and temperature, and molecular absorption which is a function of frequency, temperature and humidity. Both mechanisms can be expressed as a loss, in decibels, per unit distance that a sound wave has travelled.

3.1 CLASSICAL ABSORPTION

Classical absorption results from energy dissipation through the effects of heat conduction and viscosity. It is relatively unimportant except at higher frequencies and varies only slightly with temperature; however, it has to be considered in an analysis since at 10,000 Hz the classical absorption amounts to a little over 4 dB/1000 feet. Values of classical absorption from References 1 and 2 are given in Figure 1.

Molecular absorption results principally from a rotational and vibrational relaxation process of oxygen and nitrogen molecules. It varies over a wide range of values and may be as high as 100 dB/1000 feet at 10,000 Hz.

Both theoretical and experimental results indicate that for a given frequency there is a value of absolute humidity at which molecular absorption has a maximum value. Relative humidity is a more familiar term than absolute humidity, because it has significance to weather and comfort. It is the ratio, in percent, of the amount of water in a parcel of air at a given temperature divided by the amount of water that parcel of air would have at the condensation point. However, molecular absorption is concerned with the actual amount of water in the air regardless of how much there could be. A nomogram from Reference 2 relating absolute humidity, relative humidity, and air temperature is given in Figure 2.

Reference 1 presented an empirical formula relating the absolute humidity at which maximum molecular absorption occurs to the frequency of a sound

wave. This relationship is shown in Figure 3. Reference 1 also provided values of maximum molecular absorption as a function of frequency and temperature; these values are given in Figure 4.

Given the information in Figures 2 through 4, the remaining problem would be to determine what fraction of the maximum molecular absorption occurs at absolute humidities other than that at which the maximum absorption occurs. Figure 5 indicates the relationship, from Reference 1, between normalized molecular absorption and normalized absolute humidity that can be used to determine the molecular absorption coefficient for a given frequency, air temperature, and absolute humidity.

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4. MODIFICATIONS TO LABORATORY RESULTS

4.1 TEMPERATURE AND HUMIDITY EFFECTS

Most of the experimental test results reported in the literature show trends which agree with the theoretical predictions given in References 1 and 2. For specific conditions, however, many of the experimental results do not agree with the theoretical values nor with one another. The results from laboratory experiments were usually obtained only over a limited range of temperature and humidity. In order to obtain absorption coefficients over a wide range of temperature and humidity, it has been general practice to alter the theoretical curves to fit the experimental results. The procedure used here was to make use of the precise and systematic laboratory data from Reference 4 to modify the theoretical curves from References 1 and 2.

Because the determination of atmospheric absorption depends on several curves, one must be arbitrary in deciding which of these curves should be altered to make the theoretical curves agree with experimental data. The approach taken here was to accept the classical absorption curve (Figure 1) and the curve of absolute humidity at which maximum absorption occurs as a function of frequency (Figure 3). The curve presenting maximum molecular absorption values for different frequencies and temperatures (Figure 4) and the theoretical curve relating normalized molecular absorption to normalized absolute humidity (Figure 5) were then adjusted to fit the data of Reference 4.

The total absorption values (i. e., a combination of molecular and classical) in Figure 3 of Reference 4 were used as presented. However, in Figure 4 of Reference 4, the plot of normalized absorption as a function of normalized humidity includes the effects of classical absorption. Classical absorption was subtracted from the total absorption values and a modified curve relating normalized molecular absorption as a function of normalized humidity was obtained. This curve is plotted in Figure 6 along with the curve from Figure 4 of Reference 4, and Kneser's theoretical curve. The modified Harris curve was selected for the currently proposed method.

In Figure 5 of Reference 4 a comparison was made between experimental values and Kneser's theoretical values for maximum absorption coefficient as a function of frequency. However, Harris' values once again included classical absorption and the theoretical values do not. Comparing only the molecular absorption of Harris' total absorption values showed them to be lower than theory would predict. Harris' data were approximately parallel to the theoretical curve of maximum molecular absorption as a function of frequency (Figure 4).

Theoretical values of maximum molecular absorption for three frequencies were plotted as functions of temperature in Figure 7. Data from Reference 4 obtained at 20°C (68°F) were plotted and modified curves parallel to the theoretical curves were drawn through them. The modified curves in Figure 7 were used to obtain the complete set of modified data presented in Figure 8.*

The curves in Figures 1, 3 and 8, and the curve in Figure 9, which is taken from the modified curve in Figure 6, then supply a complete set of curves for use in determining total atmospheric absorption coefficients for a wide range of frequencies, temperatures and humidities.

4.2 FREQUENCY EFFECTS

The theoretical and the modified theoretical curves described above and presented in Figures 1, 3, 8 and 9 are strictly applicable to pure-tone, single-frequency sounds. For wide-band noise, with or without strong discrete-frequency components, it is necessary to consider frequency bands that may contain several frequency components. The most commonly used frequency band has a constant percentage bandwidth, either that of a full or 1/1-octave band filter or that of a 1/3-octave band filter. In order to develop a procedure for determining atmospheric absorption coefficients for bands of

*Note that Figures 7 and 8 differ slightly from the corresponding Figures 6 and 7 in the August 1964 version of ARP 866. The differences are due to inconsistencies that occurred in the plotting of the previous curves for air temperatures near 0°F. These inconsistencies have been removed by the use of Equation (4) (Paragraph 5.4) to determine α_{molmax} .

noise it was necessary to compare absorption coefficients from field measurements to those determined from the curves of Figures 1, 3, 8 and 9.

Although laboratory data are obtained under comparatively carefully controlled conditions, field values of atmospheric absorption coefficients are obtained under a fairly wide range of conditions which may not be carefully measured. These data are usually obtained from a series of tests in which the sound pressure levels are measured on the ground as a particular type of airplane flies over the measurement point at heights ranging from a few hundred to a few thousand feet. The measured sound pressure levels (in 1/1- or 1/3-octave bands) are plotted as a function of height overhead, inverse-square spherical-divergence losses are removed, and the excess attenuation is attributed to atmospheric absorption. It is usually assumed that temperatures and relative humidities measured near the surface of the earth are representative of conditions to a height greater than the maximum height during the flyover and that the sound propagation is in all cases vertical.

Three fairly complete sets of atmospheric absorption values obtained from field tests of aircraft flyover noise levels are described in References 8-10. These three sets of data, taken by completely independent groups and under a variety of atmospheric conditions, indicated that by making certain general assumptions fairly reliable predictions of absorption values could be made. It was assumed that the absolute humidity was constant over the height range and that the air temperature decreased with height at the lapse rate given by an International Civil Aviation Organization standard atmosphere, Reference 15. It was also assumed that, because the spectrum of the flyover noise slopes down rapidly with frequency (especially for long distance measurements), the sound pressure levels in the high-frequency bands would be controlled by energy in the lower frequency range of the band.

Analyses of the flyover noise data from References 8-10 indicated that the following general rules for the frequency to use in the analyses gave the best agreement between absorption coefficients determined from the field data and values determined from the curves of Figures 1, 3, 8 and 9.

In Figures 1, 3 and 8, the frequencies to use are:

1. For 1/1-octave bands:
 - a. Geometric mean frequency for bands centered:
at 53, 106, 212, 425, 850, 1700, and 3400 Hz (commercial), or
at 63, 125, 250, 500, 1000, 2000, and 4000 Hz (preferred).
 - b. 1.05 times the lower limiting frequency for bands centered:
at 6800 Hz (commercial) - i.e., $1.05 \times 4800 = 5040$ Hz, or
at 8000 Hz (preferred) - i.e., $1.05 \times 5600 = 5880$ Hz.
2. For 1/3-octave bands:
 - a. Geometric mean frequency for bands with center frequencies at and below 4000 Hz.
 - b. The lower limiting frequencies for bands with center frequencies above 4000 Hz, i.e., 4500, 5600, 7100, and 9000 Hz for the bands centered at 5000, 6300, 8000, and 10,000 Hz.

The geometric mean frequencies and the lower limiting frequencies were the standard values recommended in Reference 16 for 1/1- and 1/3-octave frequency bands.

5. PROCEDURE FOR CALCULATING ABSORPTION COEFFICIENTS

A seven-step procedure is used to determine the total atmospheric absorption coefficients as the sum of a classical absorption component and a molecular absorption component. The steps are set forth first for temperatures in degrees Fahrenheit and absorption coefficients in dB/1000 ft and then for degrees Celsius and dB/100 meters.

5.1 CLASSICAL ABSORPTION COEFFICIENT, α_{class}

Based on the data in Figure 1 as a function of frequency and temperature the classical absorption coefficients are determined from

$$\alpha_{\text{class}} = 10^{\left[2.05 \log_{10} (\text{freq}/1000) + 6.33 \times 10^{-4} \times \text{temp} - 1.45325\right]} \quad (1)$$

in dB/1000 ft for freq in Hz and temp in °F.

5.2 ABSOLUTE HUMIDITY, h_a

From Figure 2, the mathematical representation of the relationship between absolute humidity, h_a , relative humidity, RH, and air temperature, temp, is

$$h_a = 10^{\left[\log_{10} (\text{RH}) - B\right]} \quad (2)$$

in gm/m³ for RH in percent and where B is the value of log₁₀ (RH) for an absolute humidity of 1.0 gm/m³. The quantity B is determined from the following relationship:

$$B = b_0 + b_1 \times \text{temp} + b_2 \times \text{temp}^2 + b_3 \times \text{temp}^3 \quad (2a)$$

The coefficients in Eq. (2a) were determined by a least-squares curve fitting technique for a third-order polynomial (over the temperature range from 0°F to 100°F) to be

$$b_0 = 1.97274664$$

$$b_1 = -2.288074 \times 10^{-2}, \text{ } ^\circ\text{F}^{-1}$$

$$b_2 = 9.589 \times 10^{-5}, \text{ } ^\circ\text{F}^{-2}$$

$$b_3 = -3 \times 10^{-7}, \text{ } ^\circ\text{F}^{-3}$$

5.3 ABSOLUTE HUMIDITY FOR MAXIMUM MOLECULAR ABSORPTION, h_{molmax}

From References 1 and 2, the absolute humidity for maximum molecular absorption as a function of frequency is

$$h_{\text{molmax}} = (\text{freq}/1010)^{1/2} \quad (3)$$

in gm/m³ with freq in Hz.

5.4 MAXIMUM MOLECULAR ABSORPTION COEFFICIENT, α_{molmax}

From Figure 8, the relation between the maximum molecular absorption coefficient, frequency, and air temperature is determined using

$$\alpha_{\text{molmax}} = 10^{\left[\log_{10} (\text{freq}/1) + 4.6833 \times 10^{-3} \times \text{temp} - 2.4215 \right]} \quad (4)$$

5.5 NORMALIZED MOLECULAR ABSORPTION COEFFICIENT, $\alpha_{\text{normalized}}$

From Figure 9, corresponding values of normalized absolute humidity (ratio of h_a to h_{molmax}) and normalized molecular absorption coefficient (ratio of α_{mol} to α_{molmax}) are as follows.

$h_{\text{normalized}}$	$\alpha_{\text{normalized}}$
0.00	0.000
0.25	0.315
0.50	0.700
0.60	0.840
0.70	0.930
0.80	0.975
0.90	0.996
1.00	1.000
1.10	0.970
1.20	0.900
1.30	0.840
1.50	0.750
1.70	0.670
2.00	0.570
2.30	0.495
2.50	0.450
2.80	0.400
3.00	0.370
3.30	0.330
3.60	0.300
4.15	0.260
4.45	0.245
4.80	0.230
5.25	0.220
5.70	0.210
6.05	0.205
6.50	0.200
7.00	0.200
10.00	0.200

For calculation purposes, these coordinate pairs may be stored in the memory of the digital computer. Values of $\alpha_{\text{normalized}}$ at intermediate values of $h_{\text{normalized}}$ can then be determined by a quadratic interpolation technique.

5.6 MOLECULAR ABSORPTION COEFFICIENT, α_{mol}

The values of the molecular absorption coefficient for given frequency, temperature and relative humidity are determined by multiplying the corresponding values of α_{molmax} (determined in step 4) and $\alpha_{\text{normalized}}$ (determined in step 5). That is,

$$\alpha_{\text{mol}} = \alpha_{\text{molmax}} \times \alpha_{\text{normalized}} \quad (5)$$

5.7 TOTAL ATMOSPHERIC ABSORPTION COEFFICIENT, α

The total atmospheric absorption coefficient for corresponding values of frequency, temperature, and relative humidity is determined by adding together the values of α_{class} from step 1 and α_{mol} from step 6. That is

$$\alpha = \alpha_{\text{class}} + \alpha_{\text{mol}} \quad (6)$$

5.8 MODIFICATIONS FOR INTERNATIONAL UNITS

For some noise propagation analyses it is more convenient to deal with air temperatures in degrees Celsius and absorption coefficients in decibels per 100 meters. Modifications to the above equations to accomplish this are described below. The frequencies to use for analyses in 1/1- and 1/3-octave bands are the same as those given in Section 4. The modifications use the following conversion factors:

$$1 \text{ meter} = 3.281 \text{ feet}$$

$$^{\circ}\text{F} = 9/5 ^{\circ}\text{C} + 32$$

$$\text{dB}/100\text{m} = 1/10 \times 3.281 \text{ ft}/\text{m} \times \text{dB}/1000 \text{ ft}$$

$$= 0.3281 \times \text{dB}/1000 \text{ ft}$$

$$= (10^{-0.48399}) (\text{dB}/1000 \text{ ft})$$

5.8.1 Classical Absorption Coefficient, α_{class}

From Equation (1),

$$\begin{aligned}\alpha_{\text{class}} &= [10 \exp(-0.48399)] [10 \exp(2.05 \log_{10}(\text{freq}/1000)) \\ &\quad + 6.33 \times 10^{-4} \times (9/5) \times \text{temp} + 6.33 \times 10^{-4} \times 32 \\ &\quad - 1.45325)] \\ &= 10^{[2.05 \log_{10}(\text{freq}/1000) + 1.1394 \times 10^{-3} \times \text{temp} - 1.916984]} \quad (7)\end{aligned}$$

in dB/100m for frequency in Hz and temperature in °C.

5.8.2 Absolute Humidity, h_a

From Equation (2),

$$h_a = 10^{[\log_{10}(\text{RH}) - B]} \quad (8)$$

in gm/m³ for RH in percent and temperature in °C.

From Equation (2a), the nondimensional quantity B is:

$$B = b_0 + b_1 \times \text{temp} + b_2 \times \text{temp}^2 + b_3 \times \text{temp}^3. \quad (8a)$$

The appropriate constants can be determined from those given in Equation (2a) by substitution as follows:

$$\begin{aligned}&- 2.288074 \times 10^{-2} (9/5 \text{ temp} + 32) \\ &\quad 9.589 \times 10^{-5} (9/5 \text{ temp} + 32)^2 \\ &\quad - 3 \times 10^{-7} (9/5 \text{ temp} + 32)^3\end{aligned}$$

Expanding and collecting terms including the constant of 1.97274664 from Equation (2a) gives

$$\begin{aligned}b_0 &= 1.328924 \\ b_1 &= -3.179768 \times 10^{-2}, \text{ } ^\circ\text{C}^{-1} \\ b_2 &= 2.173716 \times 10^{-4}, \text{ } ^\circ\text{C}^{-2} \\ b_3 &= -1.7496 \times 10^{-6}, \text{ } ^\circ\text{C}^{-3}\end{aligned}$$

5.8.3 Absolute Humidity for Maximum Molecular Absorption, h_{molmax}

Same as Equation (3),

$$h_{\text{molmax}} = (\text{freq}/1010)^{1/2} \quad (9)$$

in gm/m³ with frequency in Hz.

5.8.4 Maximum Molecular Absorption Coefficient, α_{molmax}

From Equation (4),

$$\begin{aligned} \alpha_{\text{molmax}} &= [10 \exp(-0.48399)] [10 \exp(\log_{10}(\text{freq}/1) \\ &\quad + 4.6833 \times 10^{-3} \times (9/5) \times \text{temp} \\ &\quad + 4.6833 \times 10^{-3} \times 32 - 2.4215)] \\ &= 10^{[\log_{10}(\text{freq}/1) + 8.42994 \times 10^{-3} \times \text{temp} - 2.755624]} \quad (10) \end{aligned}$$

in dB/100m with freq in Hz and temp in °C.

5.8.5 Normalized Molecular Absorption Coefficient, $\alpha_{\text{normalized}}$

Use the same table of coordinate pairs and quadratic interpolation technique described in Paragraph 5.5.

5.8.6 Molecular Absorption Coefficient, α_{mol}

Combine α_{molmax} from Paragraph 5.8.4 and $\alpha_{\text{normalized}}$ from Paragraph 5.8.5 as follows:

$$\alpha_{\text{mol}} = \alpha_{\text{molmax}} \times \alpha_{\text{normalized}} \quad (11)$$

in dB/100m.

5.8.7 Total Atmospheric Absorption Coefficient, α

Combine α_{class} from Equation (7) and α_{mol} from Equation (11) as follows:

$$\alpha = \alpha_{\text{class}} + \alpha_{\text{mol}} \quad (12)$$

in dB/100m for temperatures in $^{\circ}\text{C}$, relative humidity in percent, and frequency in Hz.

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6. ATMOSPHERIC ABSORPTION COEFFICIENTS

Atmospheric absorption coefficients were calculated for 1/1- and 1/3-octave bands for air temperatures ranging from 1 to 100°F and for relative humidities ranging from 1 to 100 percent. The 1/1-octave bands are for the preferred frequencies; values for the old commercial octave band frequencies would have to be calculated separately using the technique described above. The results of these calculations are shown in graphical form in Figures 10 and 11 and in tabular form in Tables 1 and 2. The tables present the calculated values for temperature intervals of 1°F and relative humidity intervals of 1 percent. For most analyses, the tabular format will be more useful than the graphical format, although the graphical format does provide an easy visualization of the relationship between the variables. Note also that the curves in Figures 10 and 11 have been faired through the calculated values. As a result, there may be minor differences between atmospheric absorption coefficients read from the curves and those in Tables 1 and 2. In case of a discrepancy, the calculated values in Tables 1 or 2 should be used.

The absorption coefficients in Figures 10 and 11 and in Tables 1 and 2 were calculated by a digital computer. The program statements for generating these values are given in Appendixes A and B. The statements are in FORTRAN and include the quadratic interpolation routine used to determine values of $\alpha_{\text{normalized}}$ from values of $h_{\text{normalized}}$. The statements include Eqs. (1) through (6) and the table of Paragraph 5.5.

If absorption coefficients in dB/100m with temperatures in °C are desired, it would be feasible to retain the same statements but make an internal change of variable to change TEMP from °F to °C and to change ALPHA from dB/1000 ft to dB/100m. Alternatively, the program statements could be rewritten to incorporate the revised values for the constants in Eqs. (7), (8), and (10).

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7. VALUES FOR REFERENCE CONDITIONS

Two reference atmospheric conditions are commonly used for aircraft noise analyses. These are (1) an air temperature of 59°F (15°C) and a relative humidity of 70 percent, and (2) an air temperature of 77°F (25°C) and a relative humidity of 70 percent. The first condition uses the international standard day temperature at sea level from Reference 15 and a relative humidity that represents an average of the relative humidities encountered at the major airports around the world. The second condition is widely used for aircraft noise certification and for describing noise levels around airports, References 17 to 19.

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7.1 59°F (15°C) AND 70-PERCENT RELATIVE HUMIDITY

From Tables 1 and 2 the absorption coefficients are:

Band Center Frequency, Hz	Atmospheric Absorption Coefficient			
	1/1-Octave Band		1/3-Octave Band	
	dB/1000 ft	dB/100 m	dB/1000 ft	dB/100 m
50	-	-	0.1	0.0
63	0.1	0.0	0.1	0.0
80	-	-	0.1	0.0
100	-	-	0.1	0.0
125	0.2	0.1	0.2	0.1
160	-	-	0.2	0.1
200	-	-	0.3	0.1
250	0.4	0.1	0.4	0.1
315	-	-	0.5	0.1
400	-	-	0.6	0.2
500	0.7	0.2	0.7	0.2
630	-	-	0.9	0.3
800	-	-	1.2	0.4
1,000	1.5	0.5	1.5	0.5
1,250	-	-	1.9	0.6
1,600	-	-	2.4	0.8
2,000	3.0	1.0	3.0	1.0
2,500	-	-	4.0	1.3
3,150	-	-	5.4	1.8
4,000	7.6	2.6	7.6	2.5
5,000	-	-	9.1	3.0
6,300	-	-	12.7	4.2
8,000	13.7	4.6	18.5	6.1
10,000	-	-	27.4	9.0

7.2 77°F (25°C) AND 70-PERCENT RELATIVE HUMIDITY

Again from Tables 1 and 2 the absorption coefficients are:

Band Center Frequency, Hz	Atmospheric Absorption Coefficient			
	1/1-Octave Band		1/3-Octave Band	
	dB/1000 ft	dB/100 m	dB/1000 ft	dB/100 m
50	-	-	0.1	0.0
63	0.1	0.0	0.1	0.0
80	-	-	0.1	0.0
100	-	-	0.2	0.1
125	0.2	0.1	0.2	0.1
160	-	-	0.3	0.1
200	-	-	0.3	0.1
250	0.4	0.1	0.4	0.1
315	-	-	0.6	0.2
400	-	-	0.7	0.2
500	0.9	0.3	0.9	0.3
630	-	-	1.1	0.4
800	-	-	1.4	0.5
1,000	1.8	0.6	1.8	0.6
1,250	-	-	2.2	0.7
1,600	-	-	2.9	0.9
2,000	3.6	1.2	3.6	1.2
2,500	-	-	4.6	1.5
3,150	-	-	5.9	1.9
4,000	7.6	2.5	7.6	2.5
5,000	-	-	8.7	2.9
6,300	-	-	11.0	3.6
8,000	11.7	3.9	14.9	4.9
10,000	-	-	20.6	6.8

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8. LIMITATIONS

The atmospheric absorption coefficients and calculation procedures described herein should be used with caution in estimating sound propagation losses. When long propagation distances are involved there may be large discrepancies between observed and estimated sound pressure levels unless careful consideration is given to the actual spectrum shape of the noise source, the true propagation path length, the actual condition of the atmosphere between the source and the receiver, and the actual level of the background noise that may be present. In the high-frequency bands, it is possible for the losses due to atmospheric absorption to reduce the level of the sound from the noise source to below the level of the background noise.

For the analyses considered herein, the atmosphere was assumed to be still and homogeneous with no thermal or humidity inversions, no wind or wind gradients, no inhomogeneities, and no turbulence. If these conditions are not approximately satisfied, the sound can be refracted and scattered with the result that measured sound pressure levels can be significantly different from predicted sound pressure levels.

The acoustic propagation path should not be too close to horizontal. The elevation angle between the source and the receiver should not be less than approximately 25 degrees. When the elevation angle is small, there are losses in addition to the atmospheric losses described herein due to propagation over the ground and over any grassy or wooded terrain. These additional losses can be substantial and are outside the scope of this document.

The analyses presented herein are for atmospheric pressures near the standard, sea-level pressure of 760 mm of mercury (29.92 in. Hg). Additional research is needed to develop an explicit method to account for atmospheric pressures much different from the standard sea level value such as might be encountered at a high-altitude airport.

As a final limitation it should be pointed out that because of the curve-fitting techniques used to obtain the mathematical representations presented herein, it is not recommended that any extrapolations be made for temperatures colder than 0°F (-18°C) or warmer than 100°F (38°C).

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9. REFERENCES

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10. APPENDIX A

This appendix contains a listing of the computer program statements for calculating atmospheric absorption coefficients for sound pressure levels in 1/1-octave bands. The program was written in FORTRAN for operation on an IBM model 65 System 360 digital computer. The coefficients are in dB/1000 ft with temperatures in degrees Fahrenheit and relative humidities in percent.

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APPENDIX A

1/1 OCTAVES

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C C C C
ATMOSPHERIC ABSORPTION COEFFICIENT CALCULATION AS A FUNCTION OF TEMPERATURE AND RELATIVE HUMIDITY FOR FULL OCTAVE BANDS.
NOTE- TEMPERATURE IS IN DEGREES FAHRENHEIT, RELATIVE HUMIDITY IS IN PERCENT, AND ABSORPTION COEFFICIENTS ARE IN LB/1000 FEET. THIS PROGRAM DOES NOT USE ANY INPUT DATA.
DIMENSION IFRQ(8),FREQ(8),DEGREE(50),TABLE(59)
DIMENSION MMOLMX(8,100),AMOLMX(8,100),MMURAT(8,100),ALPRAT(8,100)
DIMENSION ALPMOL(8,100),ALPCLA(8,100),ALPHA(8,100)
EQUIVALENCE (MN,TABLE(1))
DATA TABLE /29.0,0.00,0.00,0.250,0.315,0.50,0.70,0.6,0.84,0.7,0.93,1.0,0.8,0.975,0.9,0.996,1.0,1.0,1.1,0.97,1.2,0.9,1.3,0.84,1.5,0.75,21.7,0.67,2.0,0.57,2.3,0.495,2.5,0.45,2.8,0.4,3.0,0.37,3.30,0.33,33.6,0.3,41.5,0.26,44.45,0.245,48.0,0.23,52.5,0.22,57.0,0.21,6.05,40.205,6.5,0.2,7.0,0.2,10.0,0.2/
DATA IFRQ/63.125,250,500,1000,2000,4000,8000/
DATA FREQ/63.0,125.0,250.0,500.0,1000.0,2000.0,4000.0,5880.0/
DATA DEGREE/1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1MT,1ME,1MH,1MP,1 ,1ME,1MR,1MA,1MT,1MU,1MX,1ME,1H,1H ,1MJ,1ME,1MG,1MP,2 ,1ME,1ME,1MS,1H ,1MF,1MA,1MH,1HP,1ME,1MY,1HM,1ME,1MI,3 ,1MT,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H /
55 FUJMAT(1ML, 27X,'ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 100 LD FT FOR FULL OCTAVE BANDS',/30X,'OF NOISE AS A FUNCTION OF TEMPER ZATURE FOP',14,' PERCENT RELATIVE HUMIDITY')
60 FORMAT(1MD,21X,'BAND CENTER FREQUENCY, HZ',36X,'BAND CENTER FREQUE INCY, HZ')
65 FORMAT(1H .8X,8I6,13X,8I6/)
70 FORMAT(1H .3X,A1,I3,1X,HF6.1,8X,A1,I3,1X,HF6.1)
NN=29
DC 160 IPW=1.100
RELHUM=IRH
DO 160 K=1.100
TEMP=K
B =1.9727664-0.02288074*TEMP+0.0009589*TEMP**2-0.0000003*TEMP**3
ABSHUM = 10.0 **((ALOGIO(RELHUM)- R)
DO 150 J=1.8
AMOLMX(J,K)=10.3**((ALOGIO(FREQ(J))+0.00464333*TEMP-2.4215)
MMULX(J,<)=(FREQ(J)/ 1010.0)**0.5
MMURAT(J,K)= ABSHUM/MMOLMX(J,K)
L=3
IF(MURAT(J,K).LE.TABLE(2))GO TO 130
DO 90 I=4.58,2
L=L+1
80 IF(TABLE(I) - MURAT(J,K))90,130,110
90 CONTINUE
GO TO 130
110 I=I-2
IF(I.LE.4)GO TO 120
I=I+2
120 XA1 = MURAT(J,K) - TABLE(I)
XA0 = MURAT(J,K) - TABLE(I-2)
XA2 = MURAT(J,K) - TABLE(I+2)
XO1 = TABLE(I-2) - TABLE(I)
XO2 = TABLE(I-2) - TABLE(I+2)
XI2 = TABLE(I) - TABLE(I+2)
ALPRAT(J,K)=TAHLE(I-1)*((XA1/XOI)*(XA2/XO2)-
TABLE(I+1))*((XA0/XOI)*((XA2/XI2)+
TABLE(I+3))*((XA0/XO2))*(XA1/XI2)
GO TO 140
130 ALPRAT(J,K) = TAble(L)
140 CONTINUE
ALPMOL(J,<) = ALPRAT(J,K) * AMOLMX(J,K)
ALPCLA(J,<)=10.3*(2.35+ALOGIO(FREQ(J)/1000.0)+(7.000633*TEMP)
1 -1.45325)
150 ALPHA(J,K)= ALPCLA(J,K)*ALPMOL(J,K)
160 CONTINUE
WRITE(6,55) IPW
WRITE(6,60)
WRITE(6,65) (IFRQ(J),J=1,8),(IFRQ(J),J=1,8)
DO 170 K=1,50
ITEMP1 = K
ITEMP2 = K+50
170 WRITE(6,70) DEGRAEE(K),ITEMP1,(ALPHA(J,K),J=1,8),DEGREE(K),ITEMP2,1(ALPHA(J,K+50),J=1,8)
180 CONTINUE
STOP
END
```

11. APPENDIX B

This appendix contains a listing of the computer program statements for calculating atmospheric absorption coefficients for sound pressure levels in 1/3-octave bands. The program was written in FORTRAN for operation on an IBM model 65 System 360 digital computer. The coefficients are in dB/1000 ft with temperatures in degrees Fahrenheit and relative humidities in percent.

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1/3 OCTAVES

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ATMOSPHERIC ABSORPTION COEFFICIENT CALCULATION AS A FUNCTION OF
TEMPERATURE AND RELATIVE HUMIDITY FOR ONE-THIRD OCTAVE BANDS.
NOTE- TEMPERATURE IS IN DEGREES FAHRENHEIT, RELATIVE HUMIDITY IS
IN PERCENT, AND ABSORPTION COEFFICIENTS ARE IN DB/1000 FEET.
THIS PROGRAM DOES NOT USE ANY INPUT DATA.
DIMENSION IFRQ(24),FREQ(24),DEGREE(100),TABLE(99)
DIMENSION MMOLMX(24,100),AMOLMX(24,100),MMURAT(24,100)
DIMENSION ALPRAT(24,100),ALPMOL(24,100),ALPCLA(24,100)
DIMENSION ALPHA(24,100)
EQUIVALENCE (NN,TABLE(1))
DATA TABLE /29.0,0.00,0.00,0.00,0.250,0.315,0.50,0.70,0.8,0.84,0.7,0.93
1,0.8,0.975,0.9,0.996,1.0,1.0,1.1,0.97,1.2,0.9,1.3,0.84,1.5,0.75,
21.7,0.67,2.0,0.57,2.3,0.495,2.5,0.45,2.8,0.4,3.0,0.37,3.3,0.33,
33.6,0.3,4.15,0.26,4.45,0.245,4.8,0.23,5.25,0.22,5.7,0.21,6.05,
40.205,6.5,0.2,7.0,0.2,10.0,0.2/
DATA IFRQ/50,63,80,100,125,160,200,250,315,400,500,630,800,1000,
1250,1600,2000,2500,3150,4000,5000,6300,8000,10000/
DATA FREQ/50.0,63.0,80.0,100.0,125.0,160.0,200.0,250.0,315.0,
1 400.0,500.0,630.0,800.0,1000.0,1250.0,1600.0,2000.0,
2 2500.0,3150.0,4000.0,4500.0,5600.0,7100.0,9000.0/
DATA DEGREE/1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1ME,1ME,1MH,1MP,
1 1ME,1MR,1MA,1MT,1MU,1MF,1M,1M,1MD,1ME,1MG,1MO,
2 1ME,1ME,1MS,1M,1MF,1MA,1MH,1MR,1ME,1MN,1MM,1ME,1MI,
3 1MT,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,
4 1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,
5 1ME,1MR,1MA,1MT,1MU,1MR,1ME,1M,1M,1MD,1ME,1MG,1MR,
6 1ME,1ME,1MS,1M,1MF,1MA,1MH,1MP,1MF,1MY,1MH,1ME,1MI,
7 1MT,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M,1M /
350 FORMAT(1ML, 30X,'ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 10
400 FT FOR ONE-THIRD OCTAVE',/29X,'BANDS OF NOISE AS A FUNCTION OF
2TEMPERATURE FOR',14,' PERCENT RELATIVE HUMIDITY')
351 FORMAT(1MO,54X'BAND CENTER FREQUENCY, HZ')
352 FORMAT(1M ,6X,23I5,16,/ )
353 FORMAT(1M ,A1,15,23F5.1,F6.1)
NN=29
DO 300 I=M=1,100
RELHUM=IRM
DO 200 K=1,120
TEMP=K
R = 1.97274664 - 0.02288074 * TEMP + 0.00009589 * TEMP**2 - 0.0000003 * TEMP**3
ABSMUM = 10.0 ** (ALOG10(RELHUM) - 9)
DO 200 J=1,24
AMOLMX(J,K)=10.0**(ALOG10(FREQ(J))-0.00668333*TEMP-2.4215)
MMOLMX(J,K) = (FREQ(J)/ 1010.0)**0.5
MMURAT(J,K) = ABSMUM/MMOLMX(J,K)
L=3
IF(MMURAT(J,K).LE.TABLE(2))GO TO 130
60 DO 90 I=4,58,2
L=I+1
80 IF(TABLE(I) - MMURAT(J,K))90,130,110
90 CONTINUE
GO TO 130
110 I=I-2
IF(1.6E-4)GO TO 120
I=I+2
120 XA1 = MMURAT(J,K) - TABLE(I)
XA0 = MMURAT(J,K) - TABLE(I-2)
XA2 = MMURAT(J,K) - TABLE(I+2)
XO1 = TABLE(I-2) - TABLE(I)
XO2 = TABLE(I-2) - TABLE(I+2)
XI2 = TABLE(I) - TABLE(I+2)
ALPRAT(J,K)=TABLE(I-1)*(XA1/XO1)*(XA2/XO2)-
1 TABLE(I+1)*(XAO/XOI)*(XA2/XI2)+
2 TABLE(I+3)*(XAO/XO2)*(XA1/XI2)
GO TO 140
130 ALPRAT(J,K) = TABLE(I)
140 CONTINUE
ALPMOL(J,K)= ALPRAT(J,K) * AMOLMX(J,K)
ALPCLA(J,K)=10.0**(2.05*ALOG10(FREQ(J)/1000.0)+(0.000633*TEMP)
1 -1.45325)
200 ALPHA(J,K)= ALPCLA(J,K)*ALPMOL(J,K)
WRITE(6,350) IRM
WRITE(6,351)
WRITE(6,352) (IFRQ(J),J=1,24)
WRITE(6,353)((DEGREE(I),I,(ALPHA(J,I),J=1,24)),I=1,50)
WRITE(6,350) IRM
WRITE(6,351)
WRITE(6,352) (IFRQ(J),J=1,24)
WRITE(6,353)((DEGREE(I),I,(ALPHA(J,I),J=1,24)),I=51,100)
300 CONTINUE
STOP
END

```

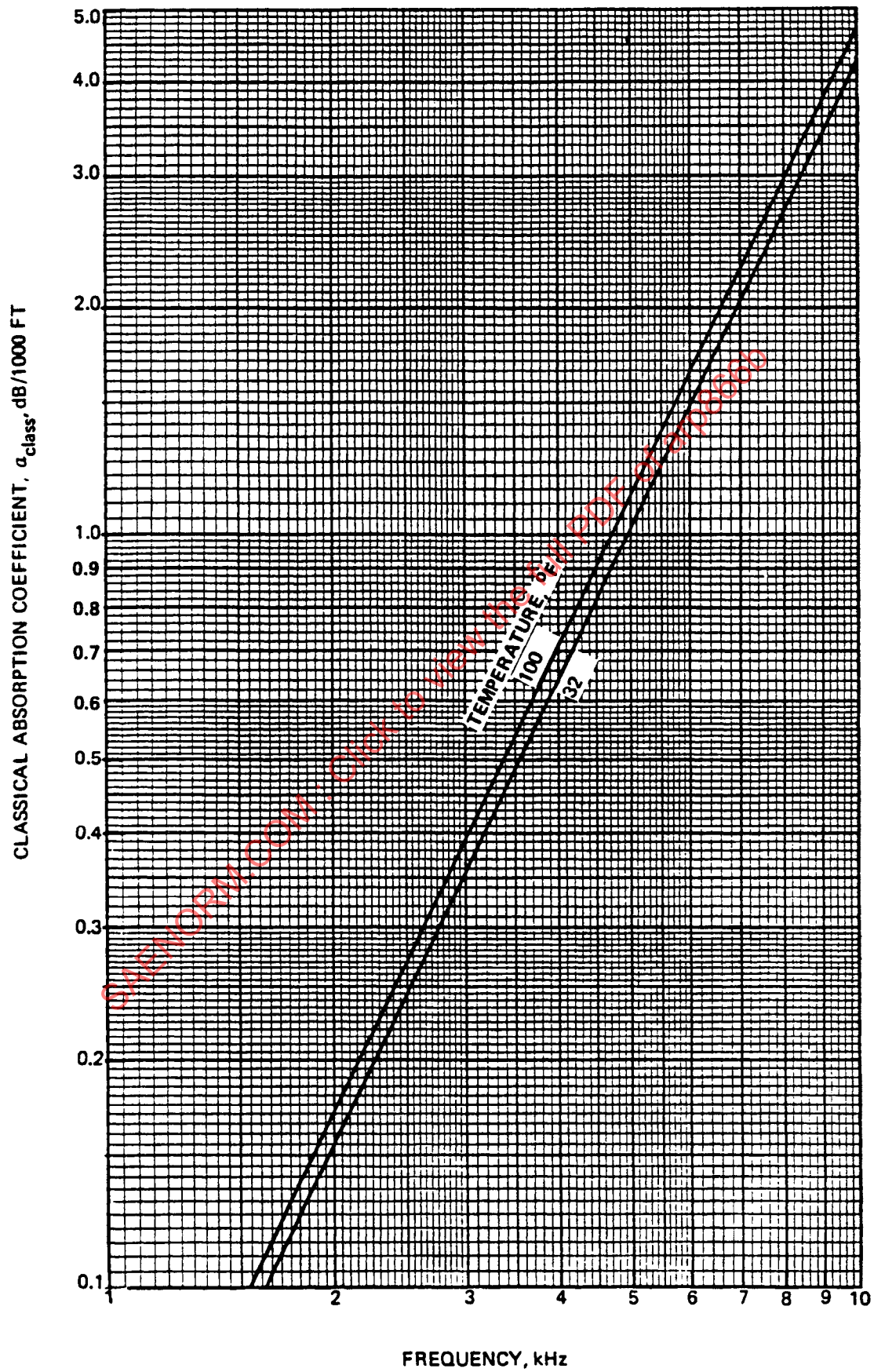


FIGURE 1. CLASSICAL ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES

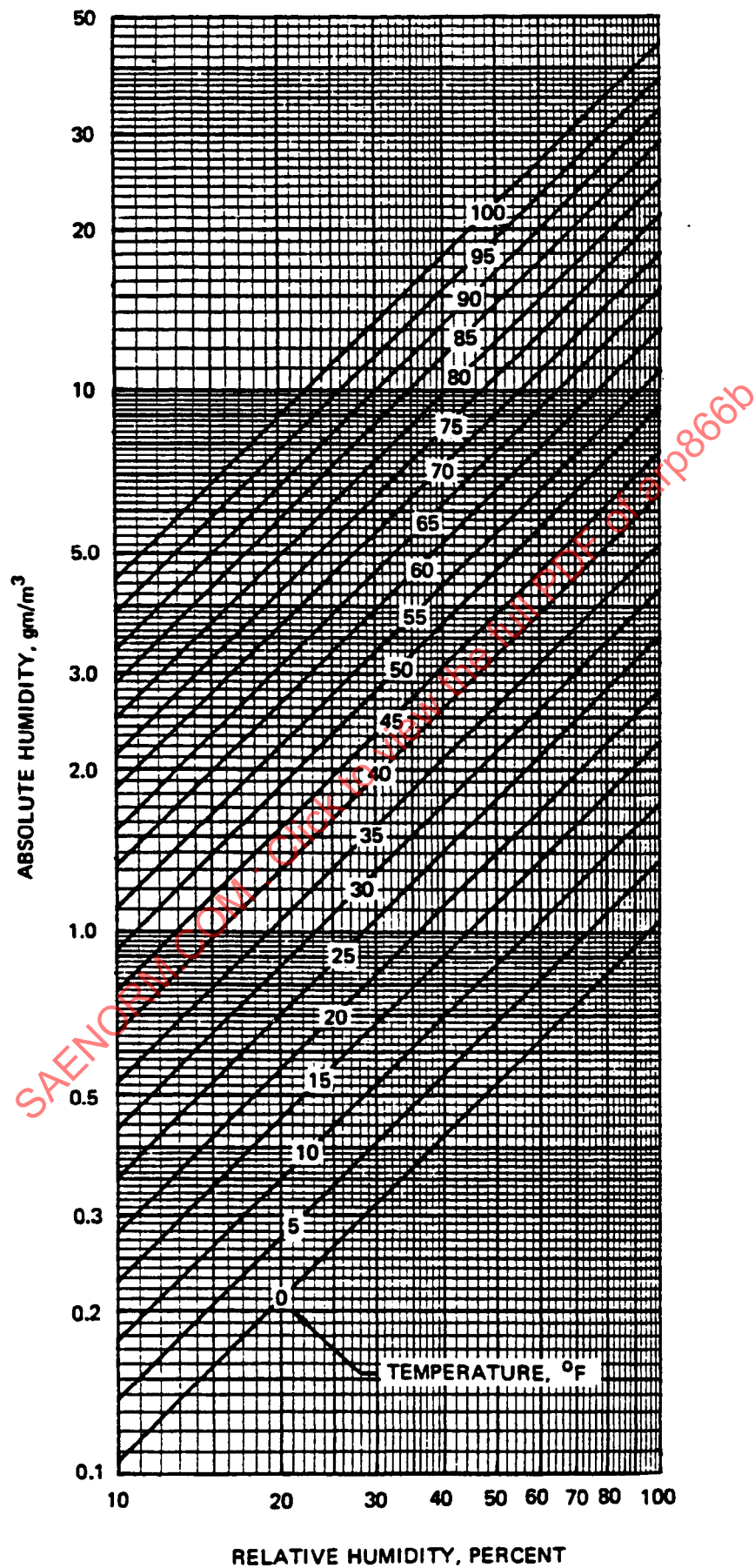


FIGURE 2. ABSOLUTE HUMIDITY AS A FUNCTION OF RELATIVE HUMIDITY FOR VARIOUS AIR TEMPERATURES

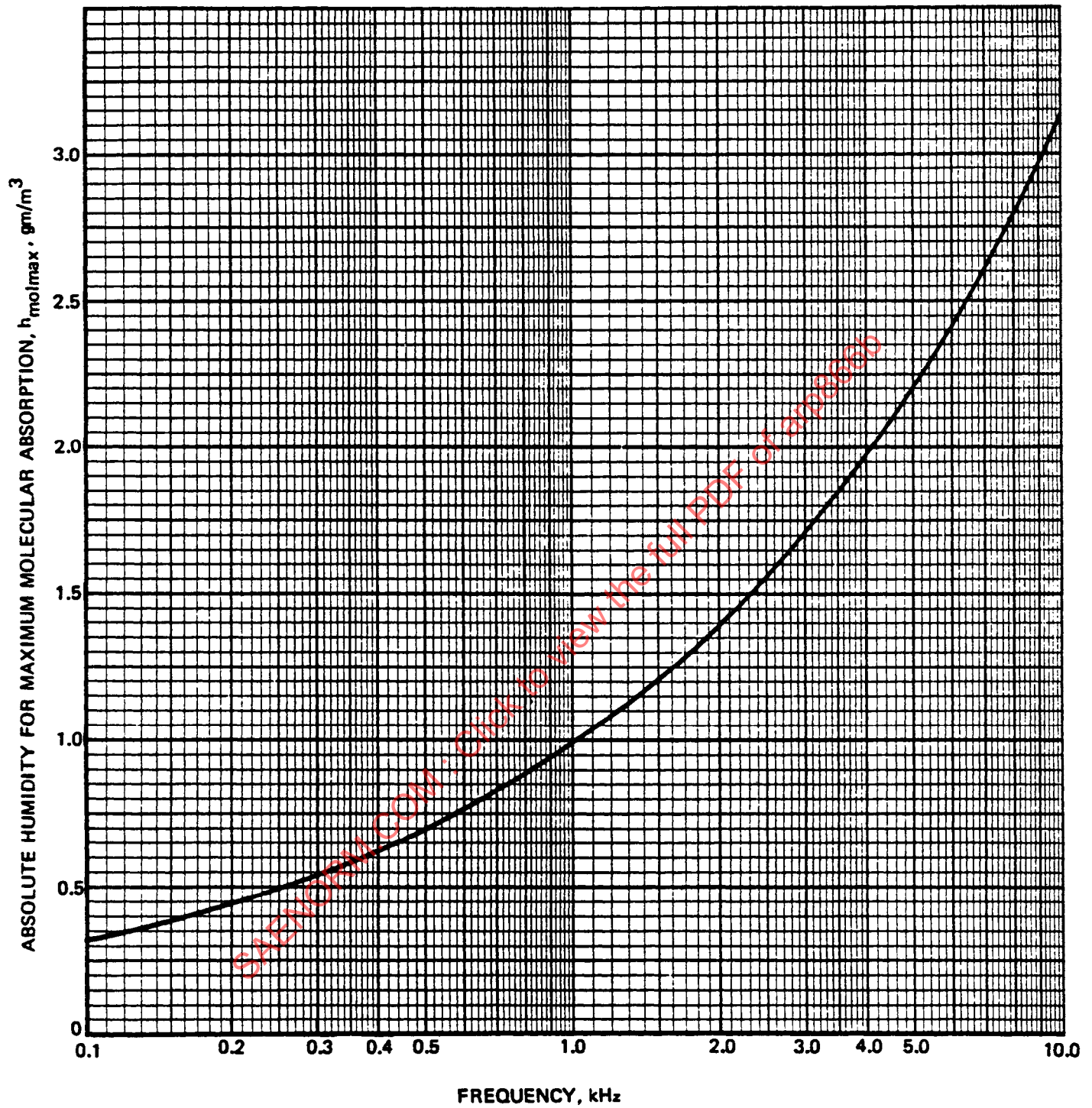


FIGURE 3. ABSOLUTE HUMIDITY FOR MAXIMUM MOLECULAR ABSORPTION
AS A FUNCTION OF FREQUENCY

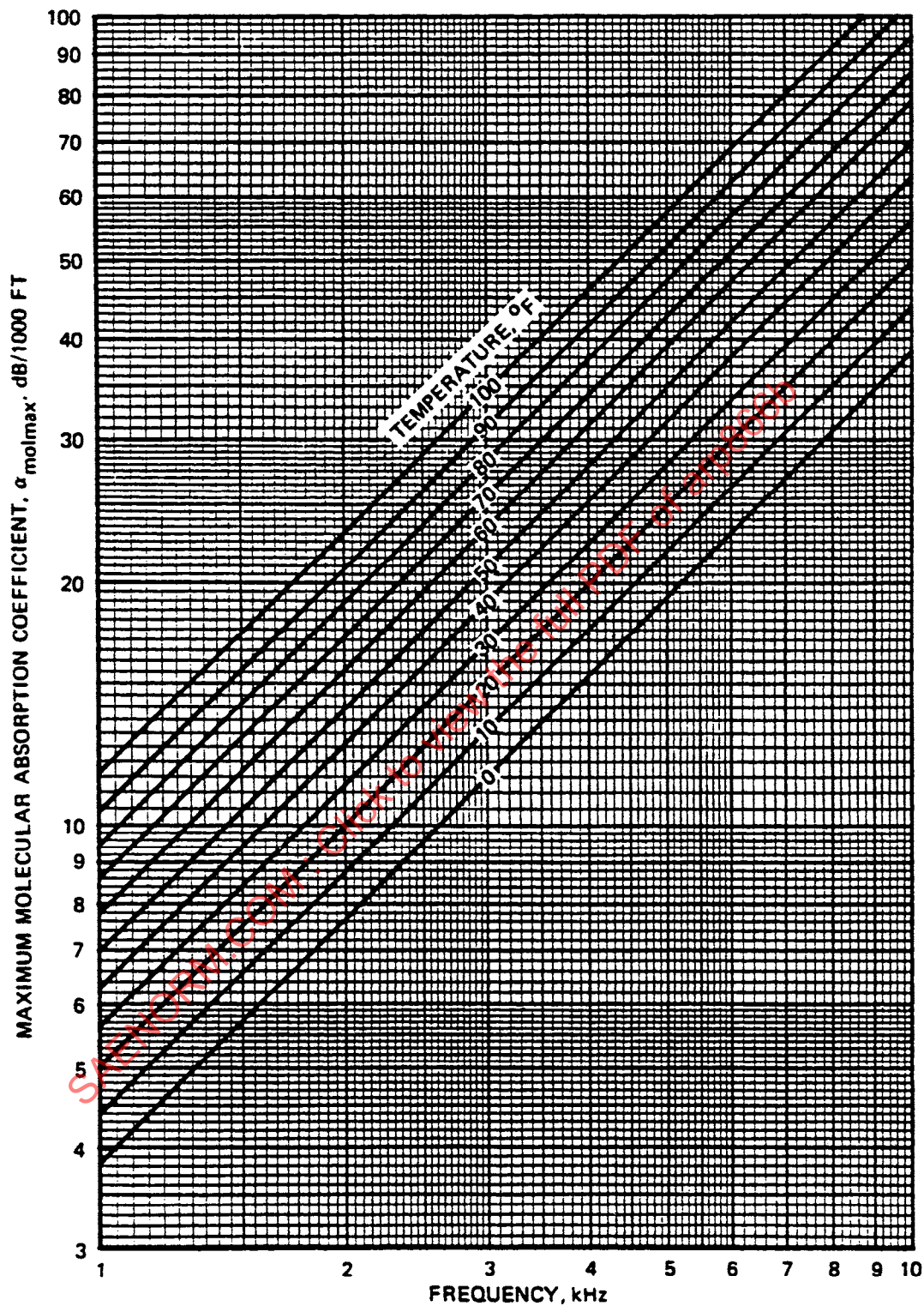


FIGURE 4. MAXIMUM MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES. (KNESER'S VALUES FROM REFERENCE 1.)

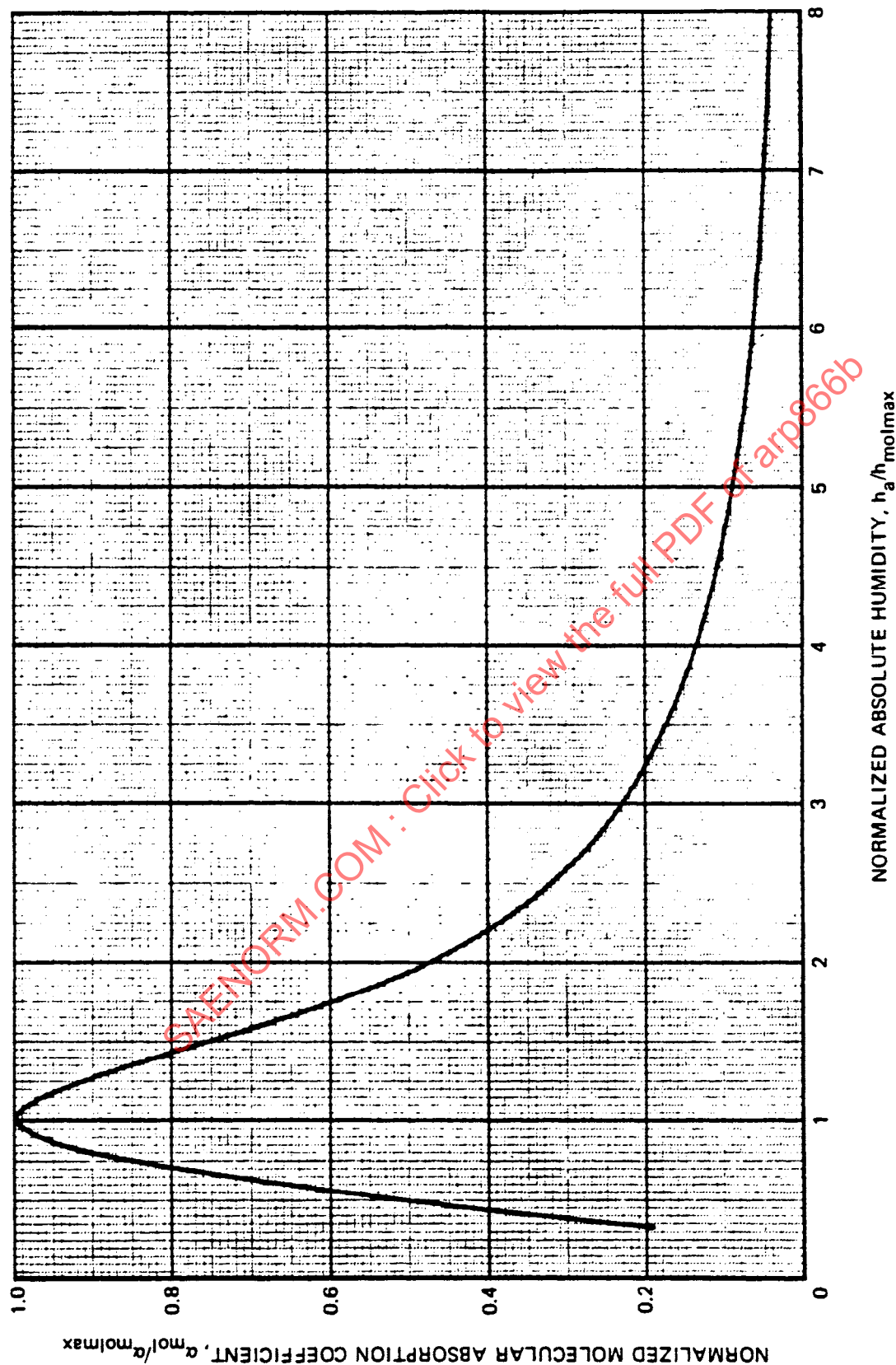


FIGURE 5. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY. (KNESER'S VALUES FROM REFERENCE 1.)

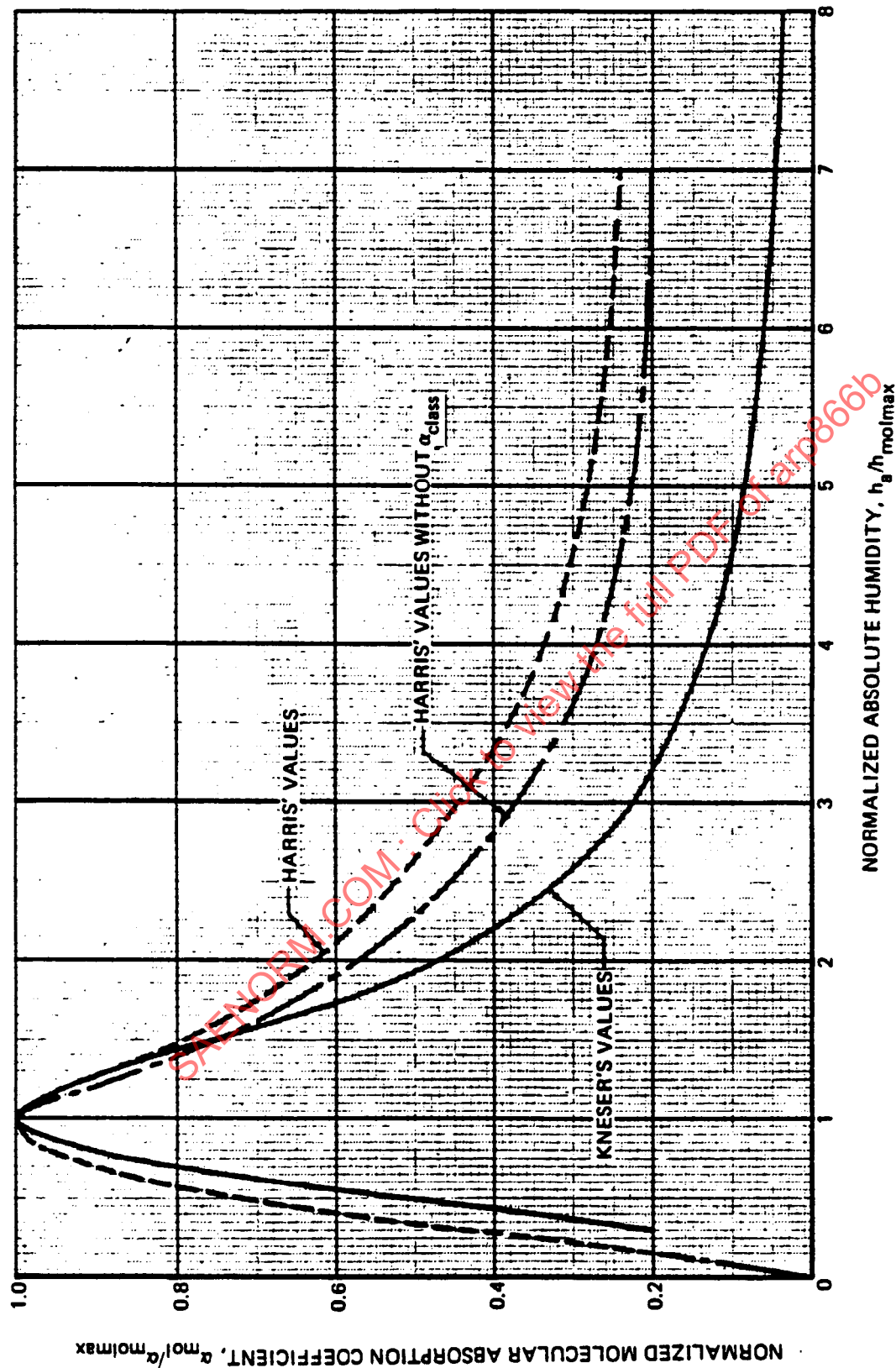


FIGURE 6. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY. (KNESER'S VALUES FROM REFERENCE 1; HARRIS' VALUES FROM REFERENCE 4.)

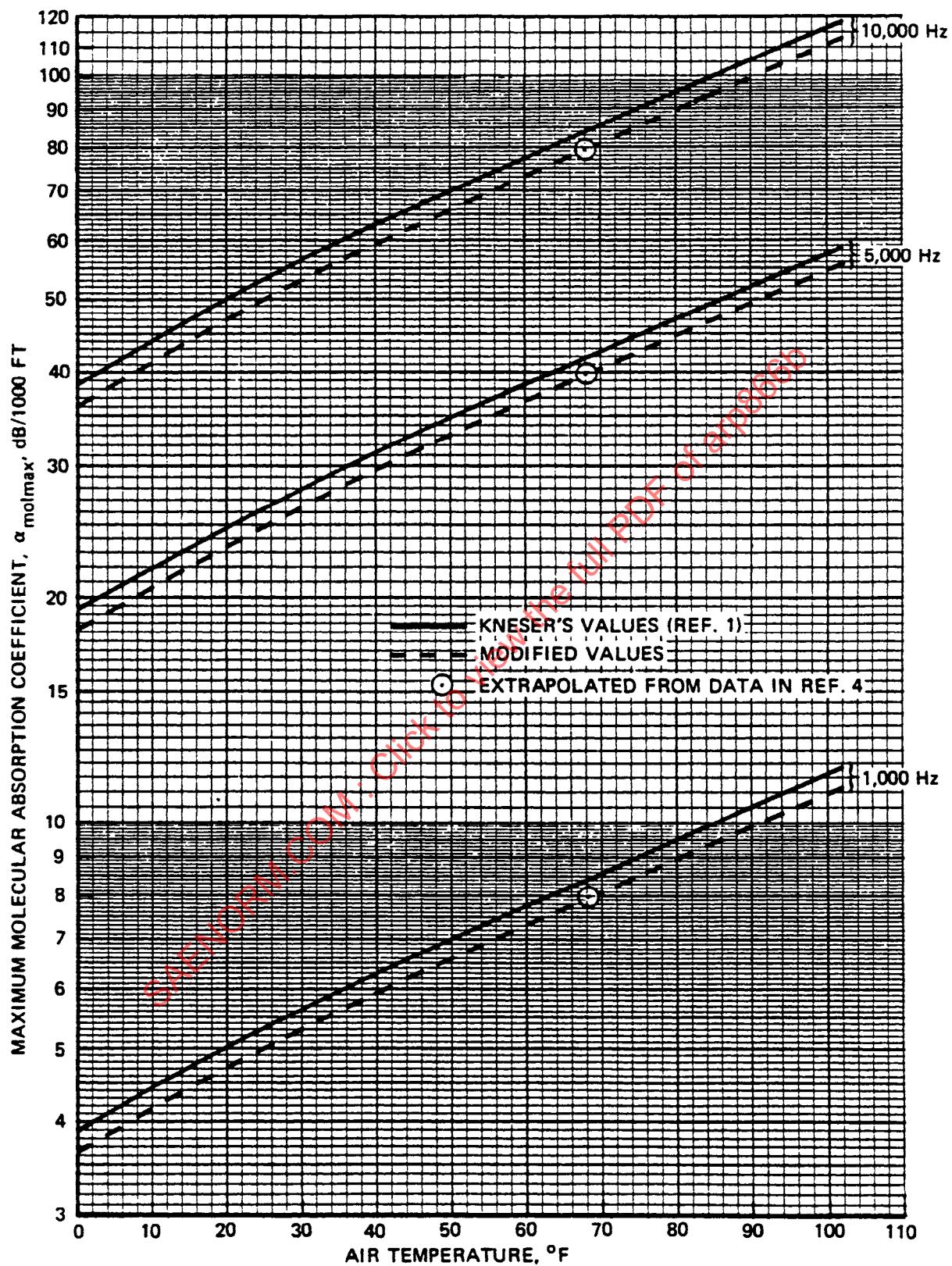


FIGURE 7. THEORETICAL AND MODIFIED MAXIMUM MOLECULAR ABSORPTION COEFFICIENTS AS A FUNCTION OF TEMPERATURE FOR THREE FREQUENCIES

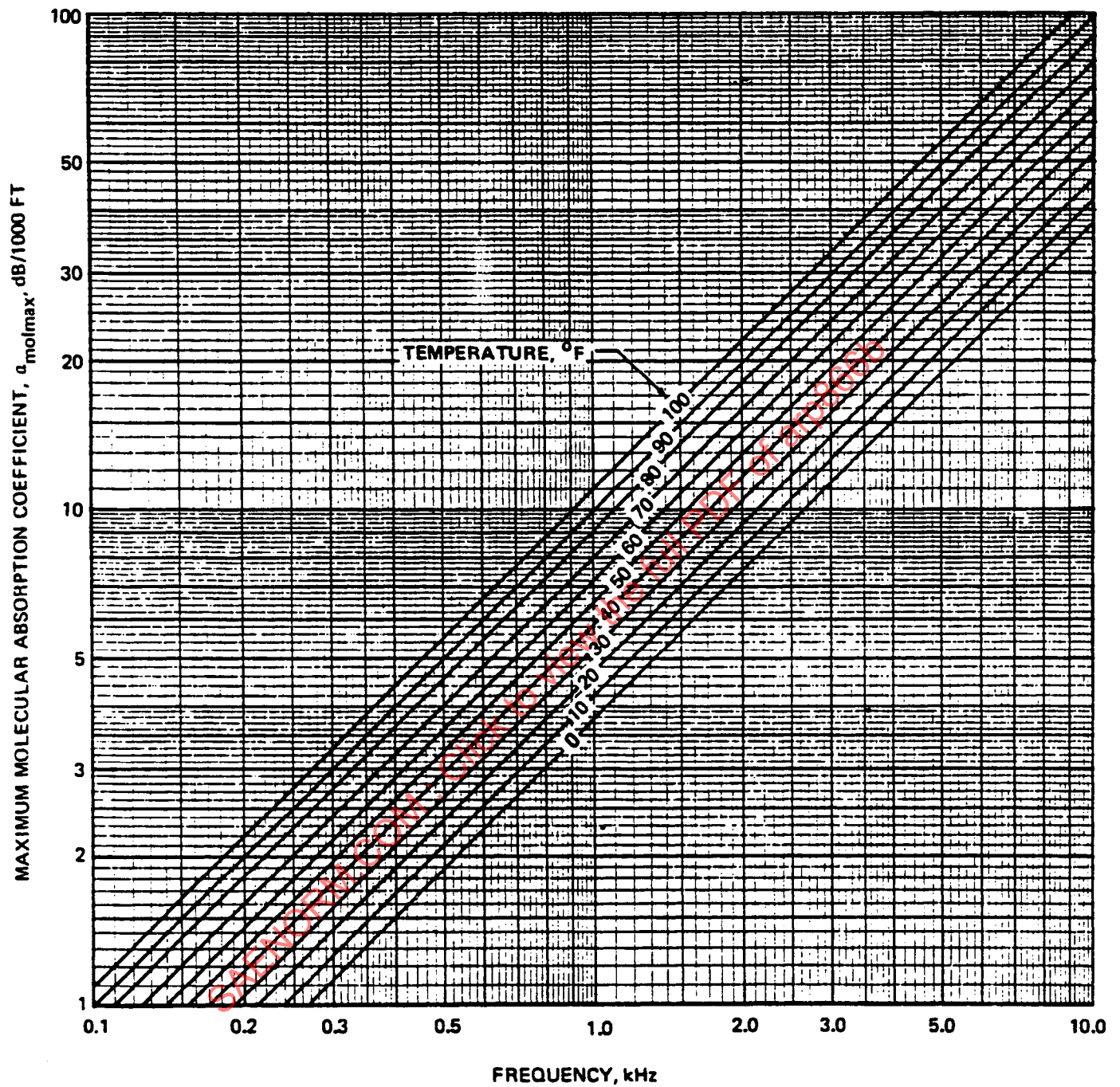


FIGURE 8. MAXIMUM MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES

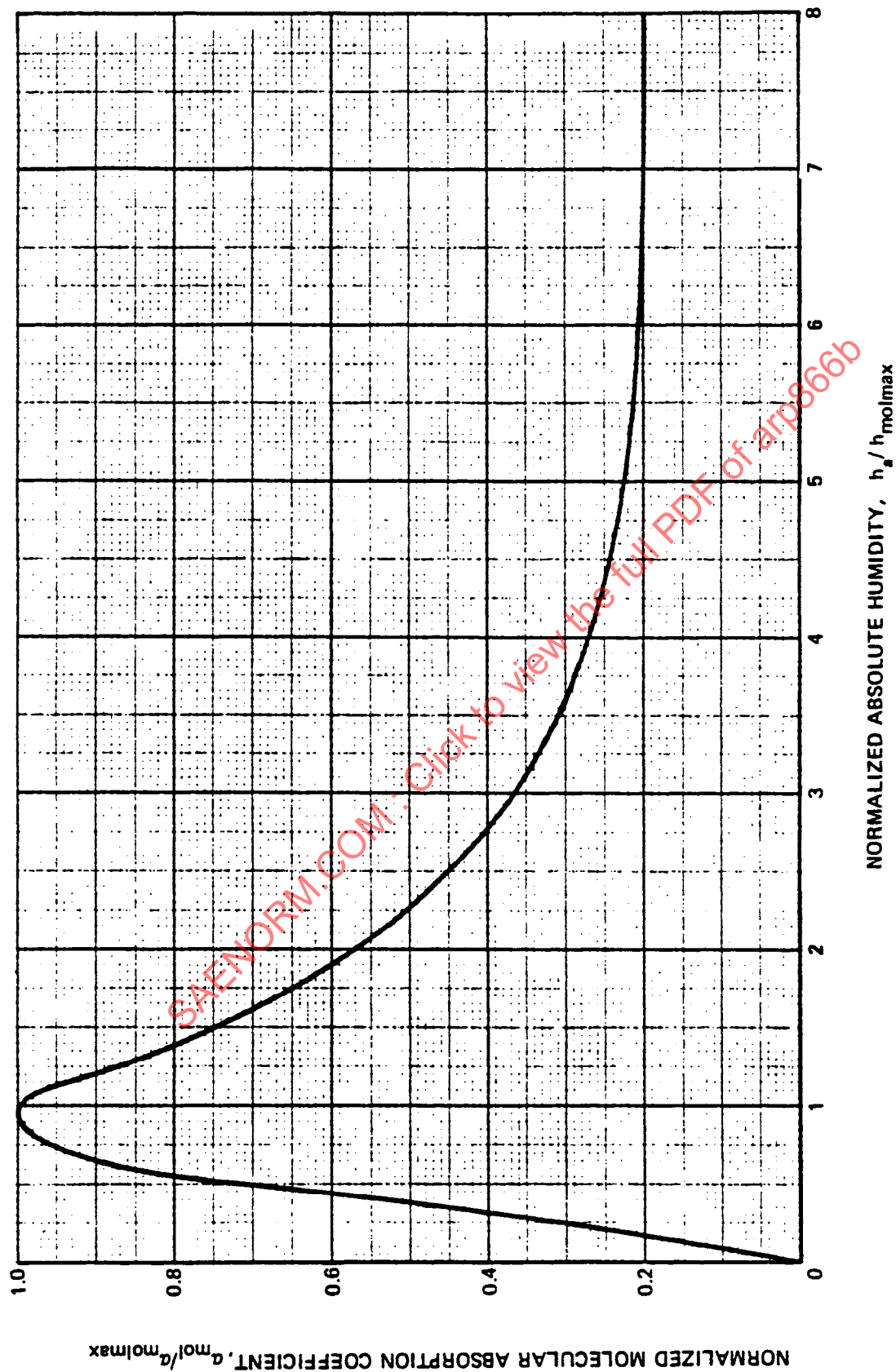


FIGURE 9. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY

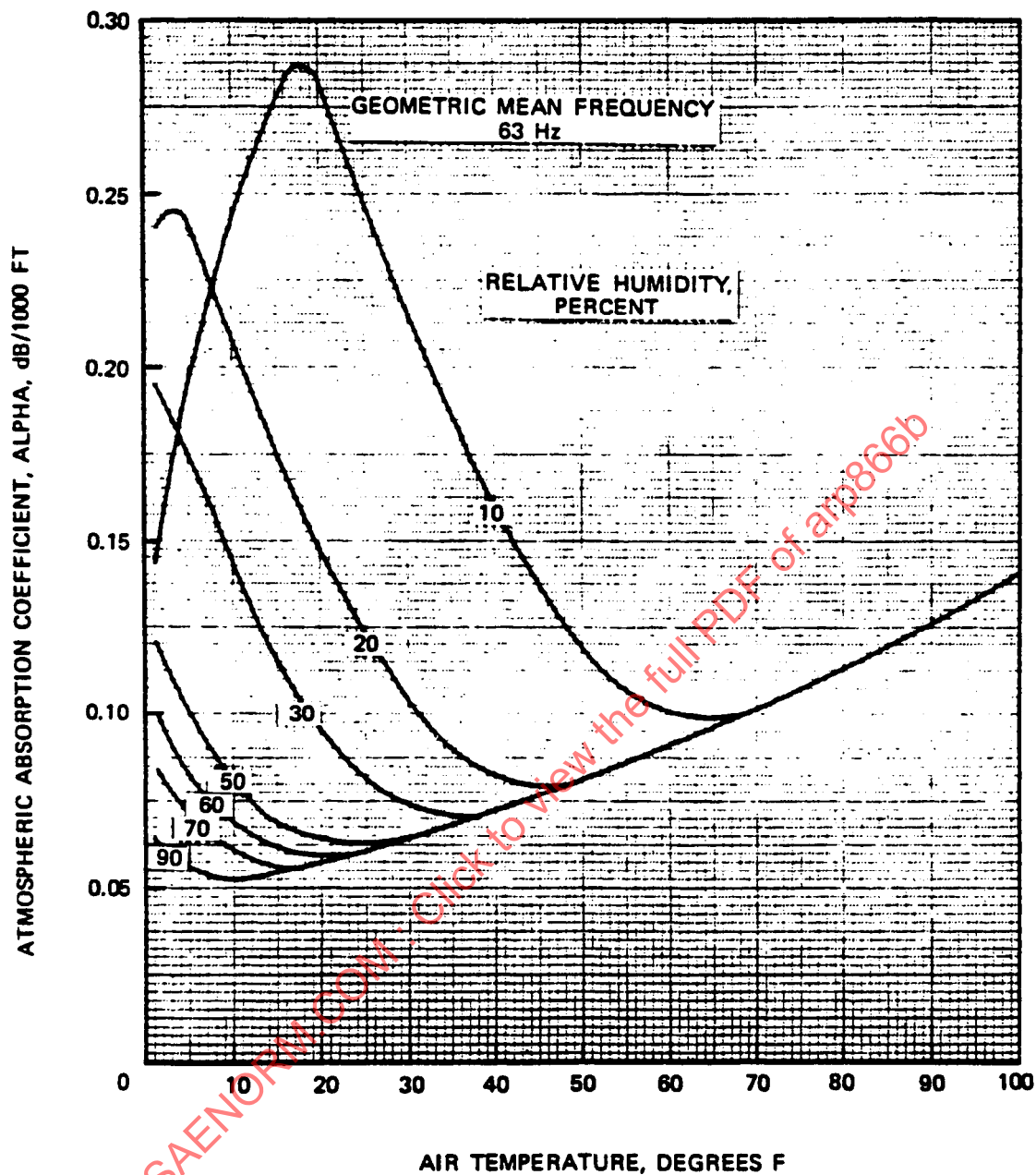


FIGURE 10. ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/1-OCTAVE BANDS OF NOISE FOR DIFFERENT TEMPERATURES AND HUMIDITIES

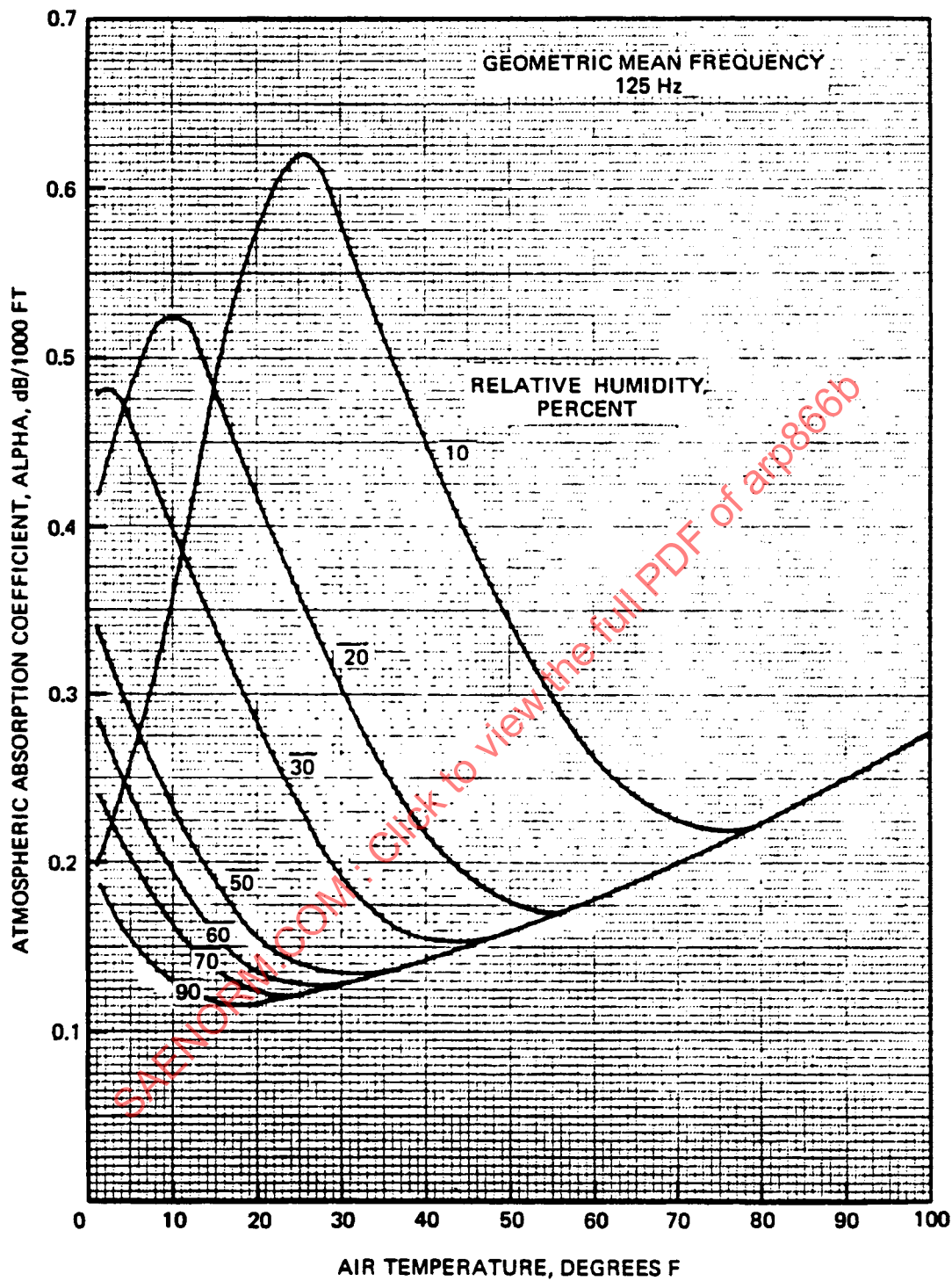


FIGURE 10. CONTINUED

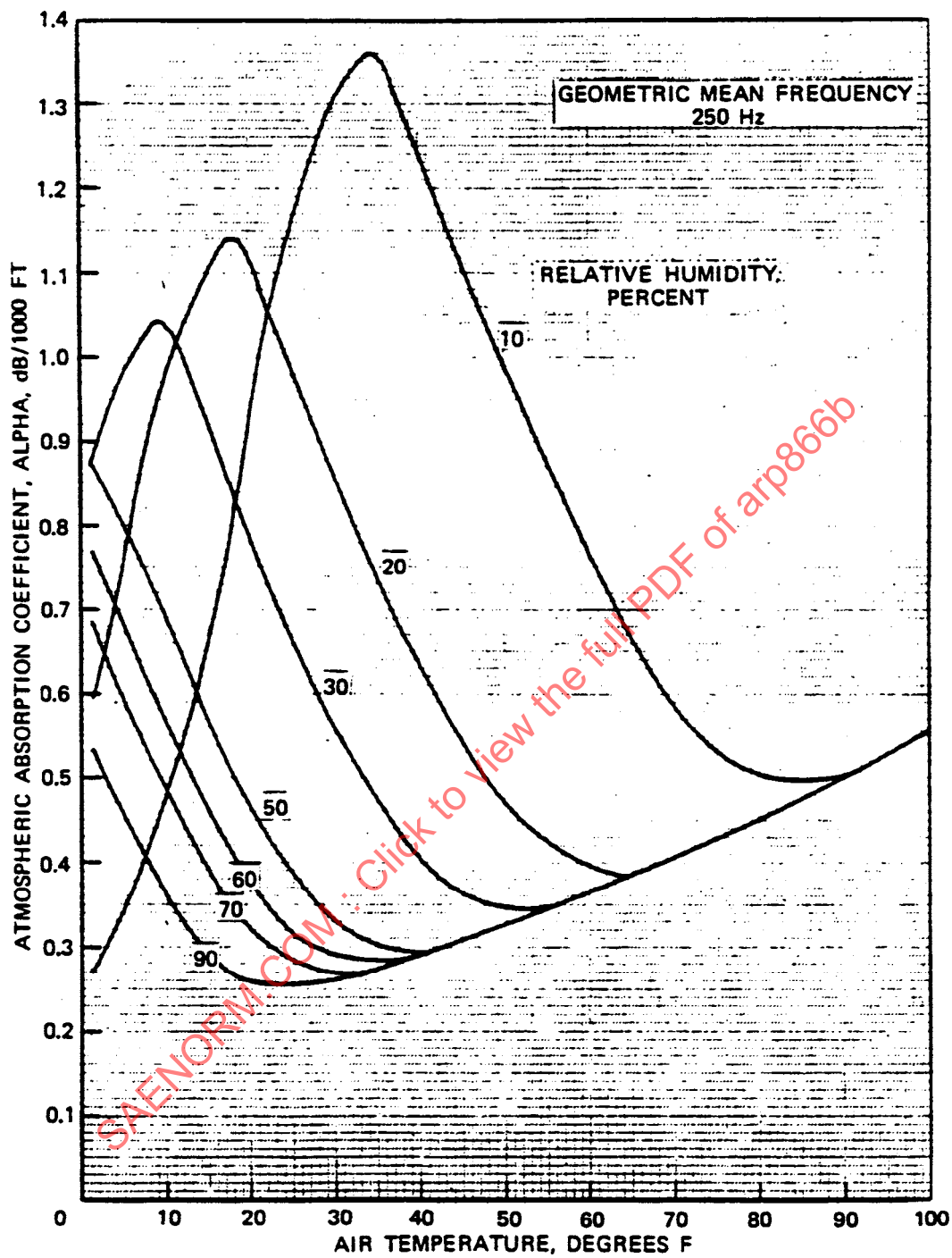


FIGURE 10. CONTINUED

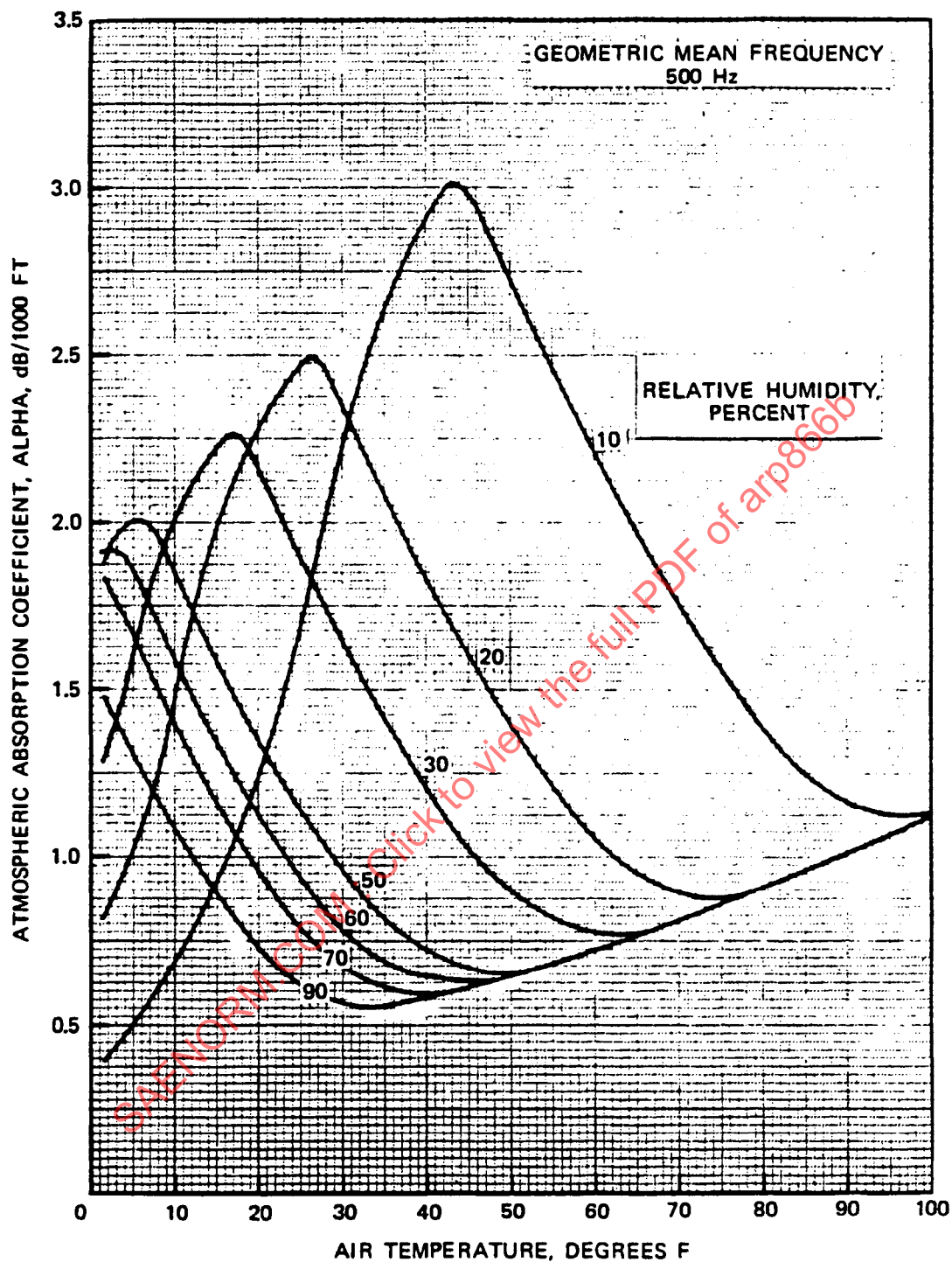


FIGURE 10. CONTINUED

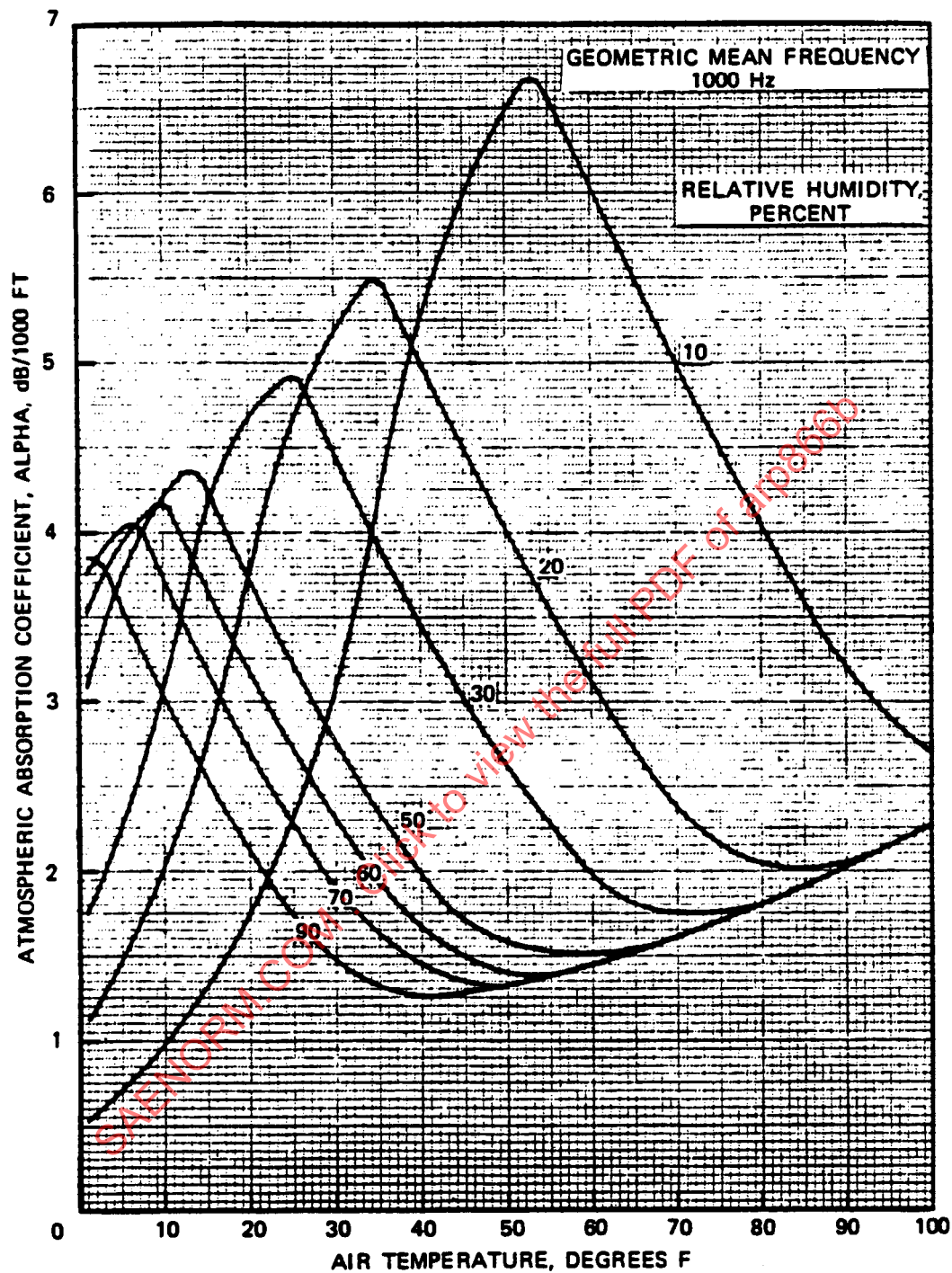


FIGURE 10. CONTINUED

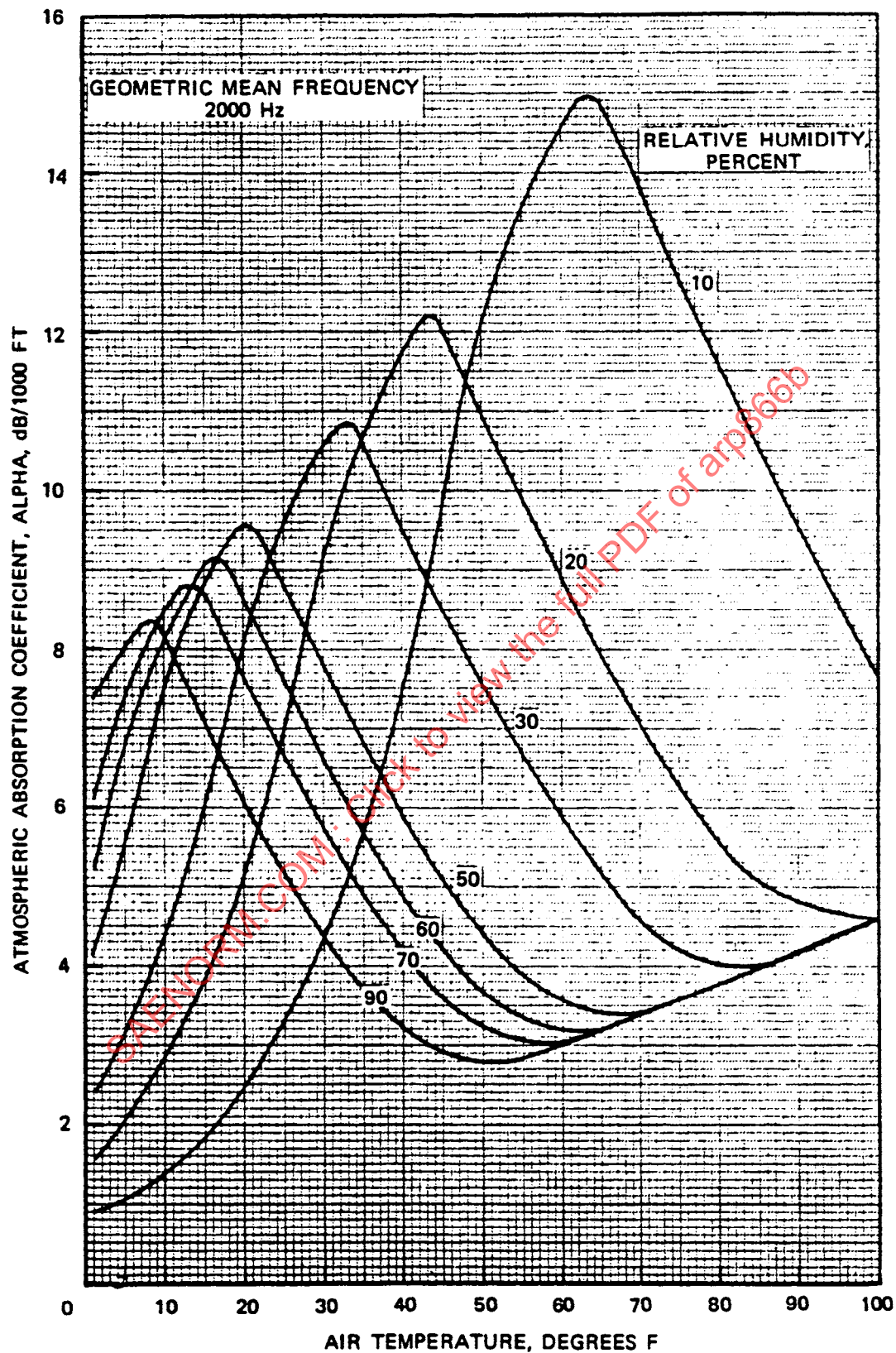


FIGURE 10. CONTINUED

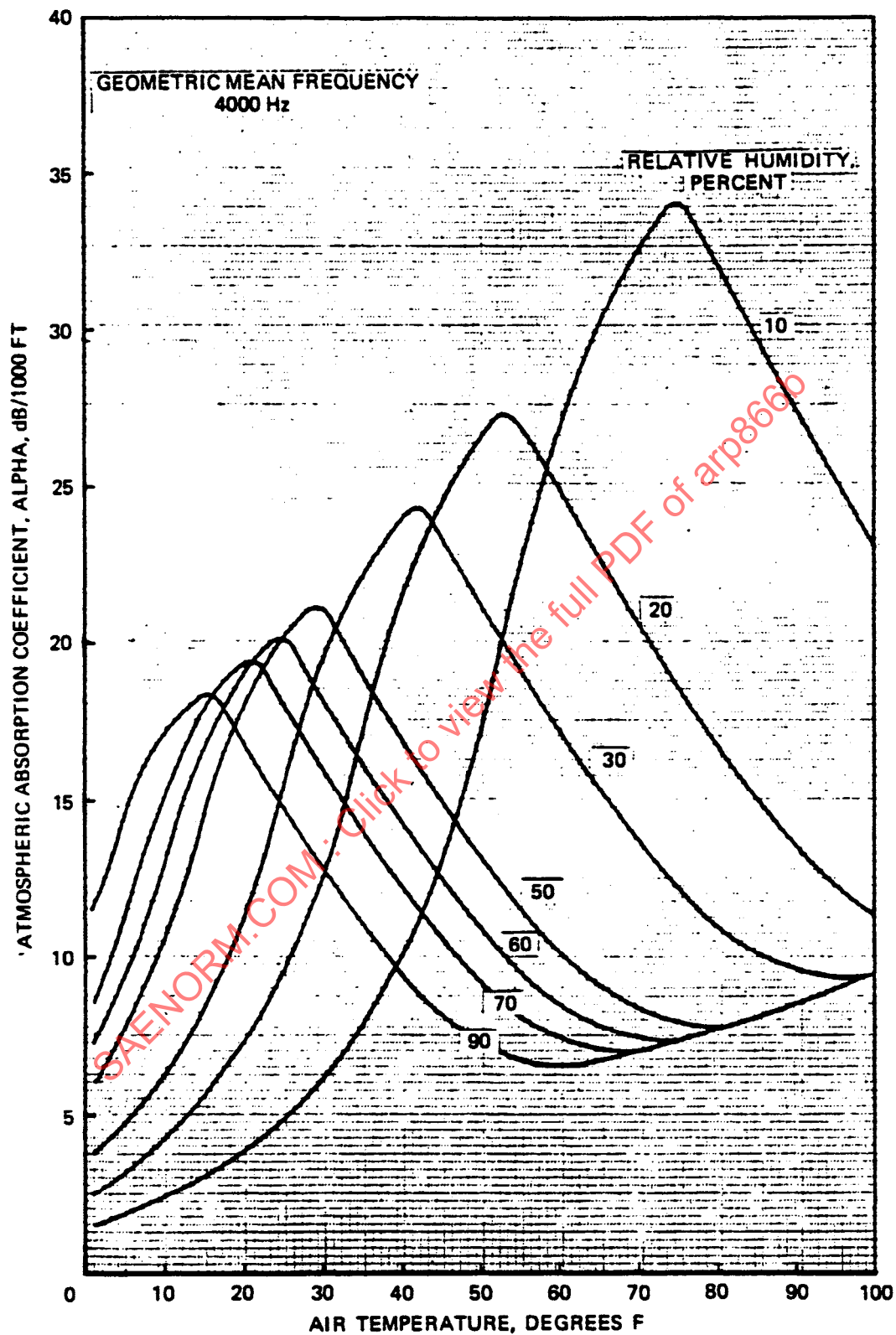
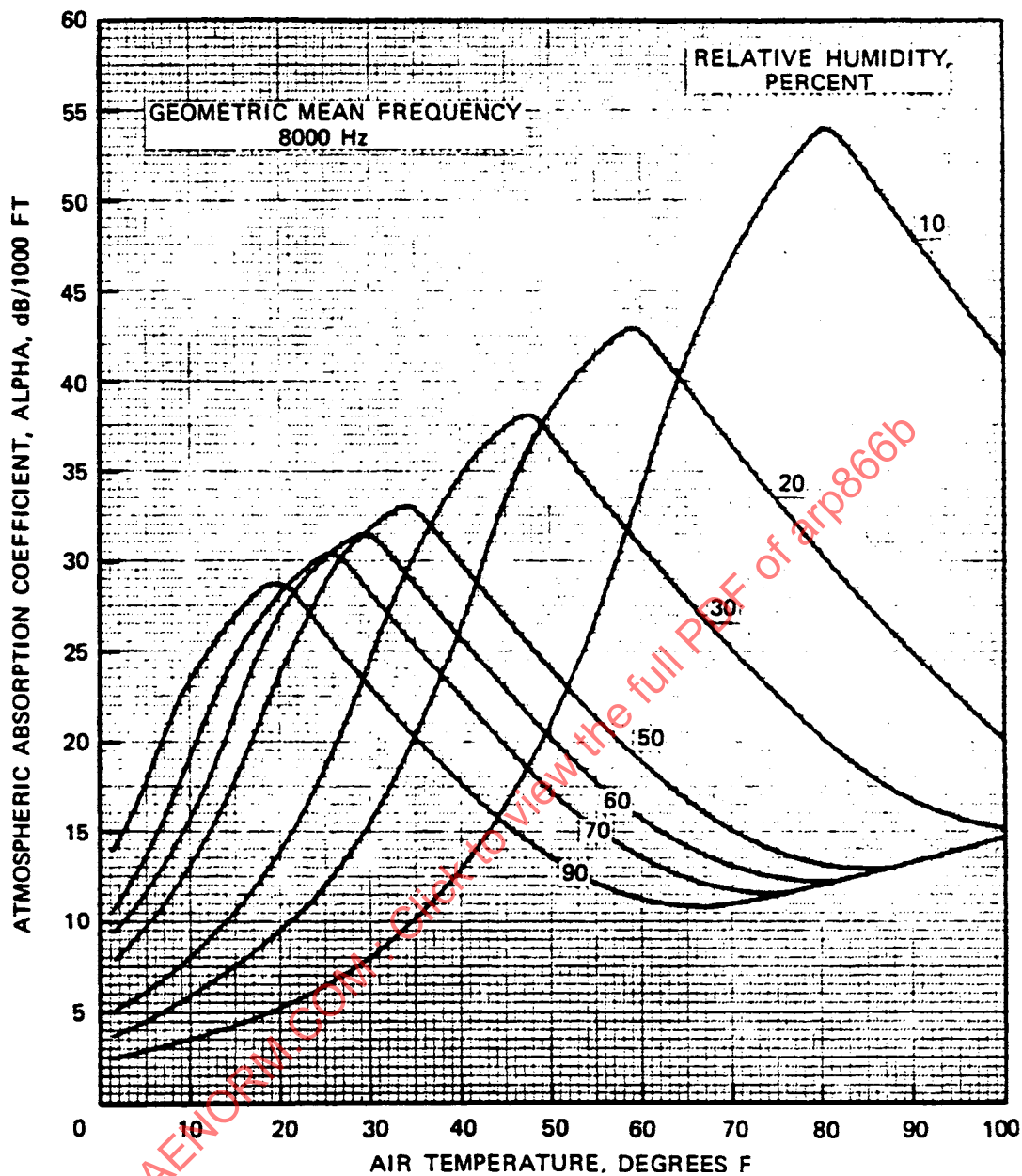


FIGURE 10. CONTINUED



NOTE: Frequency used to calculate these coefficients was 5880 Hz which is 1.05 times 5600 Hz, the low cutoff frequency of the band.

FIGURE 10. CONCLUDED

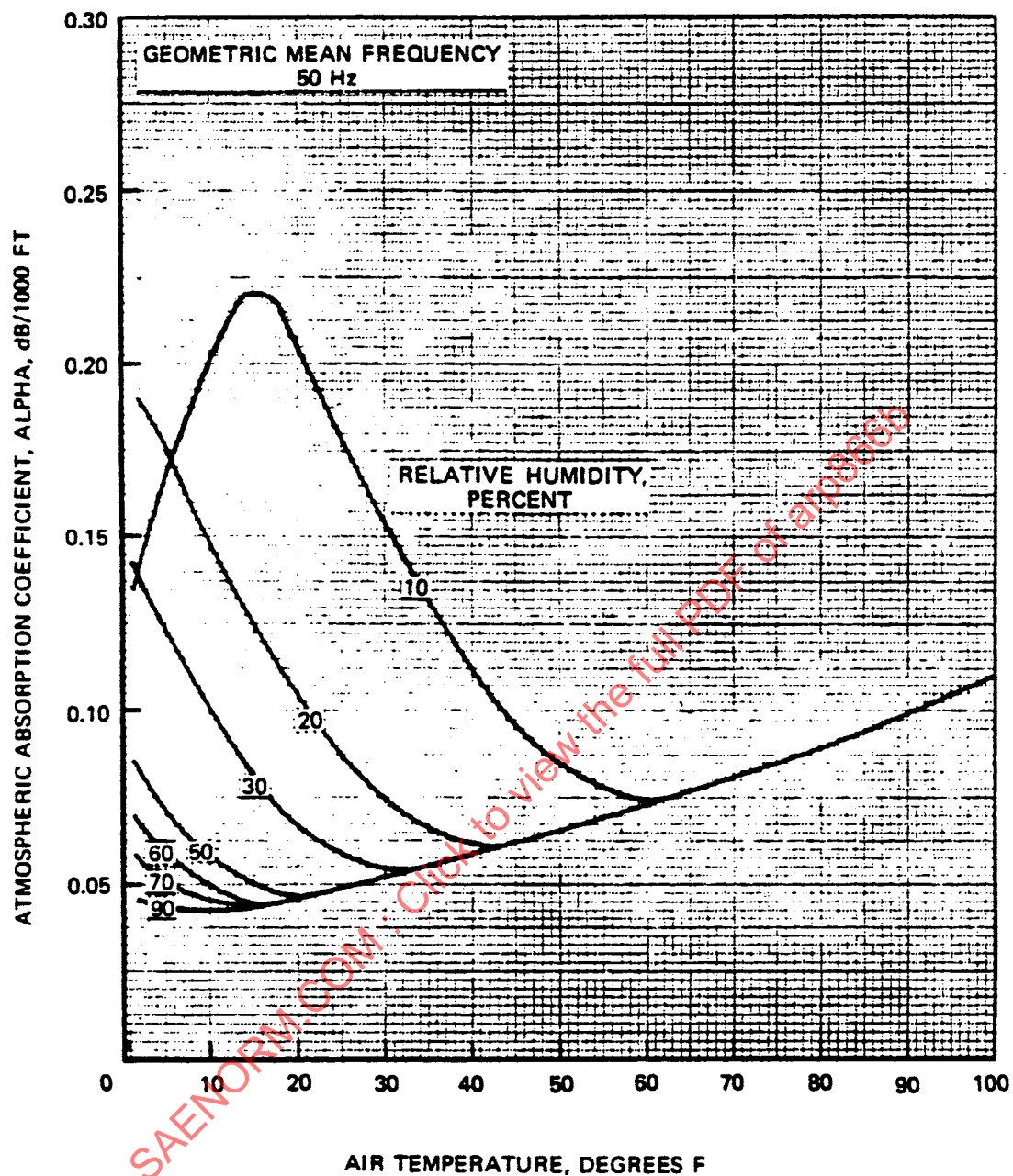


FIGURE 11. ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/3 OCTAVE BANDS OF NOISE FOR DIFFERENT TEMPERATURES AND HUMIDITIES

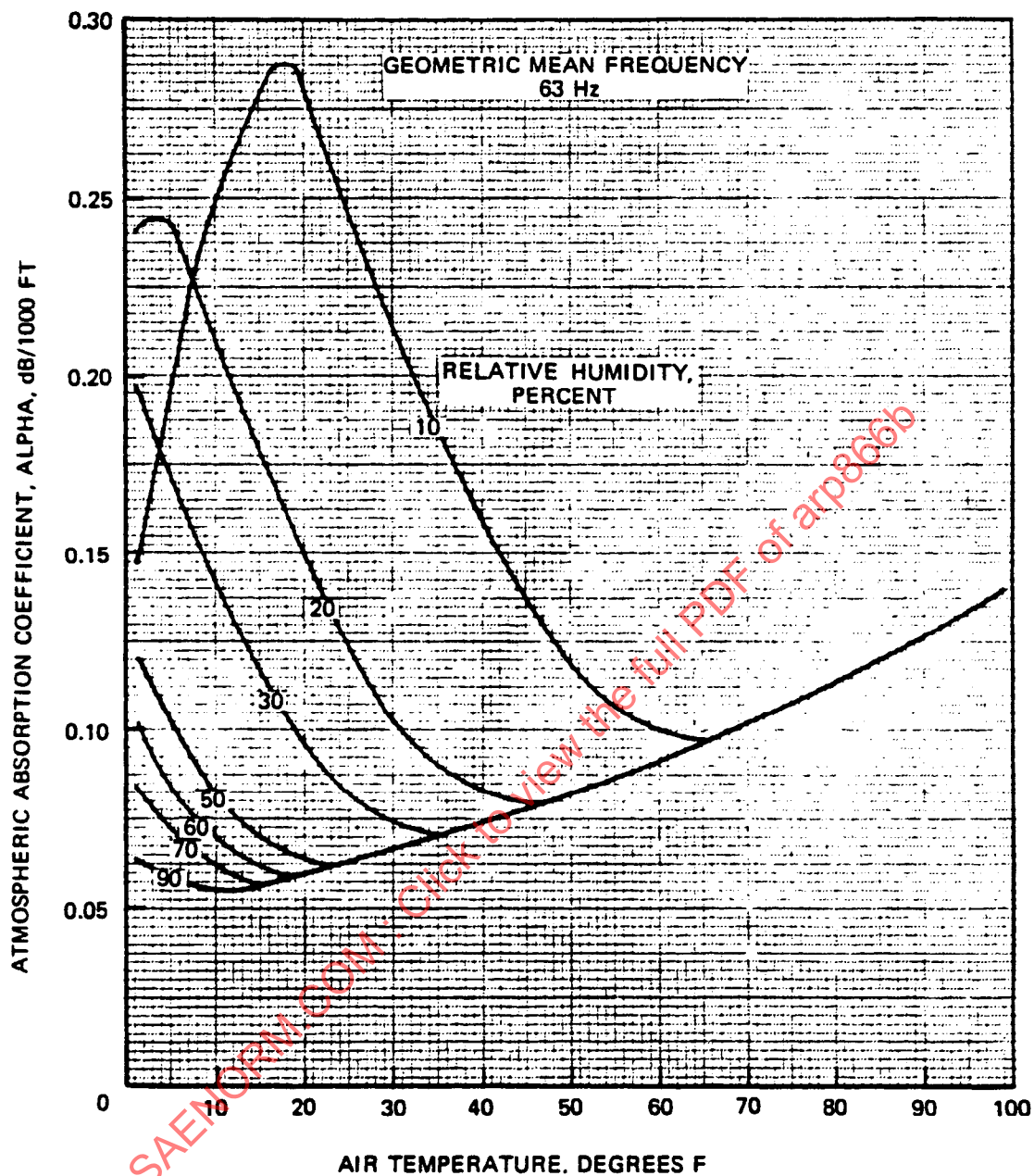


FIGURE 11. CONTINUED

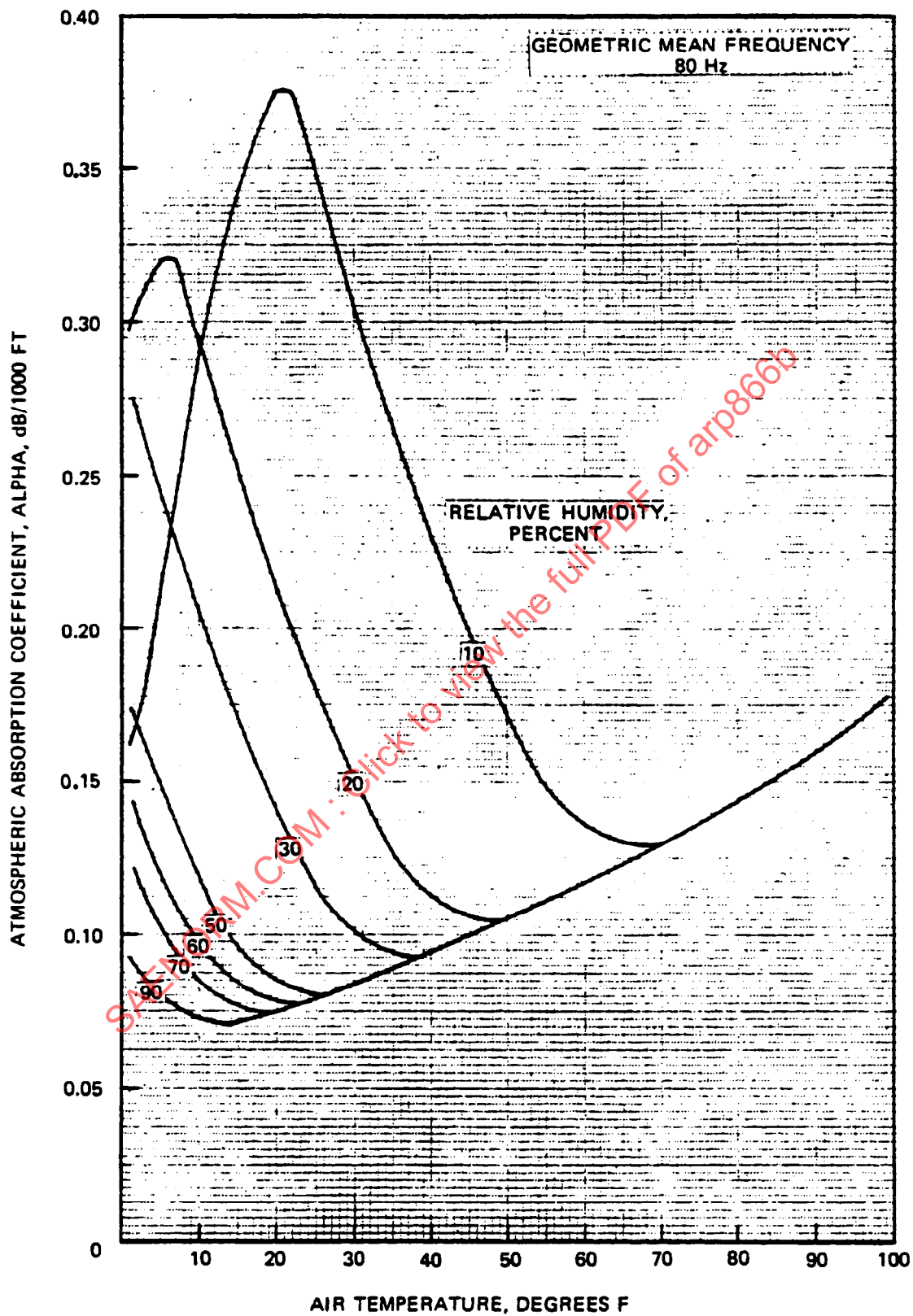


FIGURE 11. CONTINUED

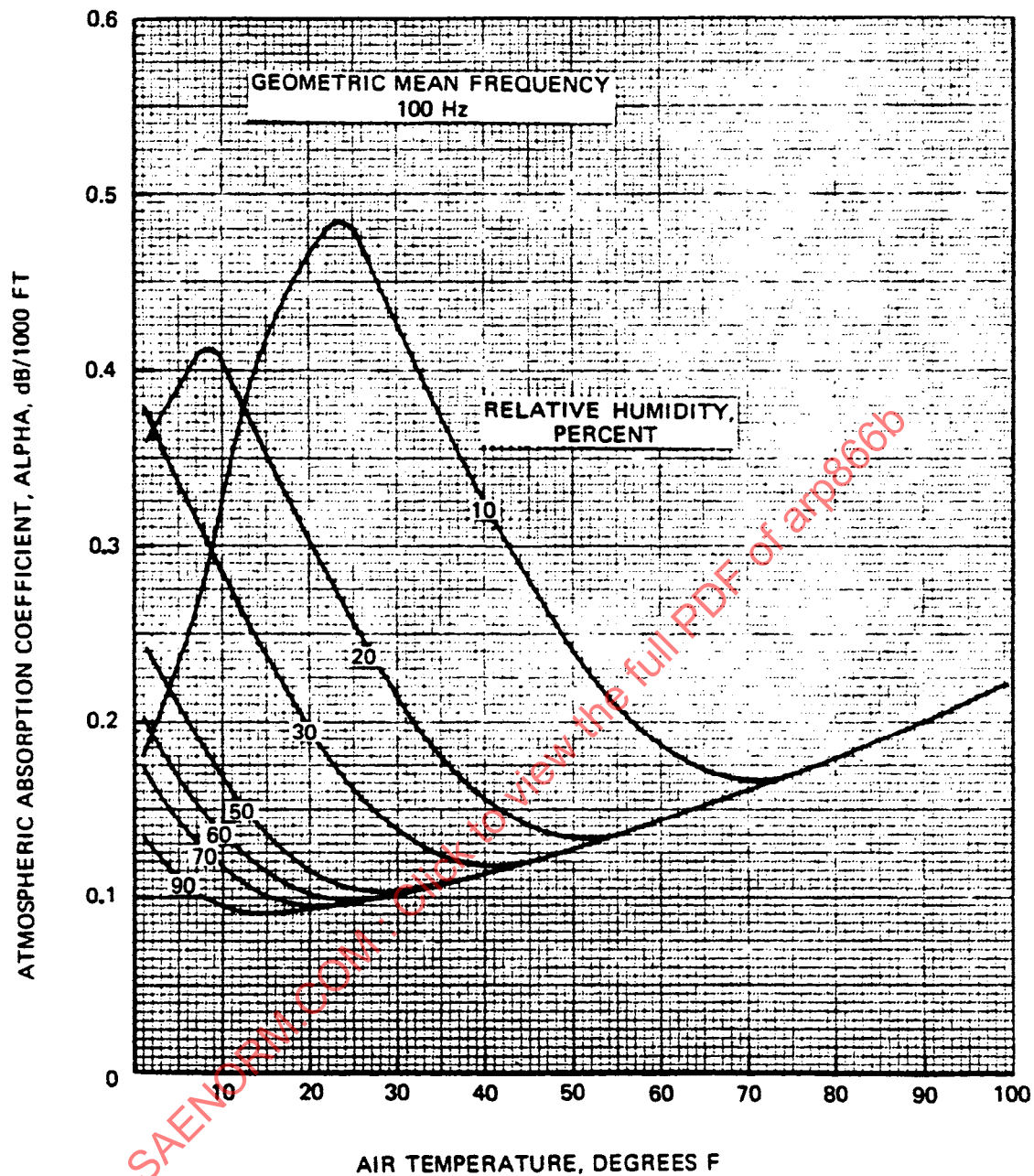


FIGURE 11. CONTINUED

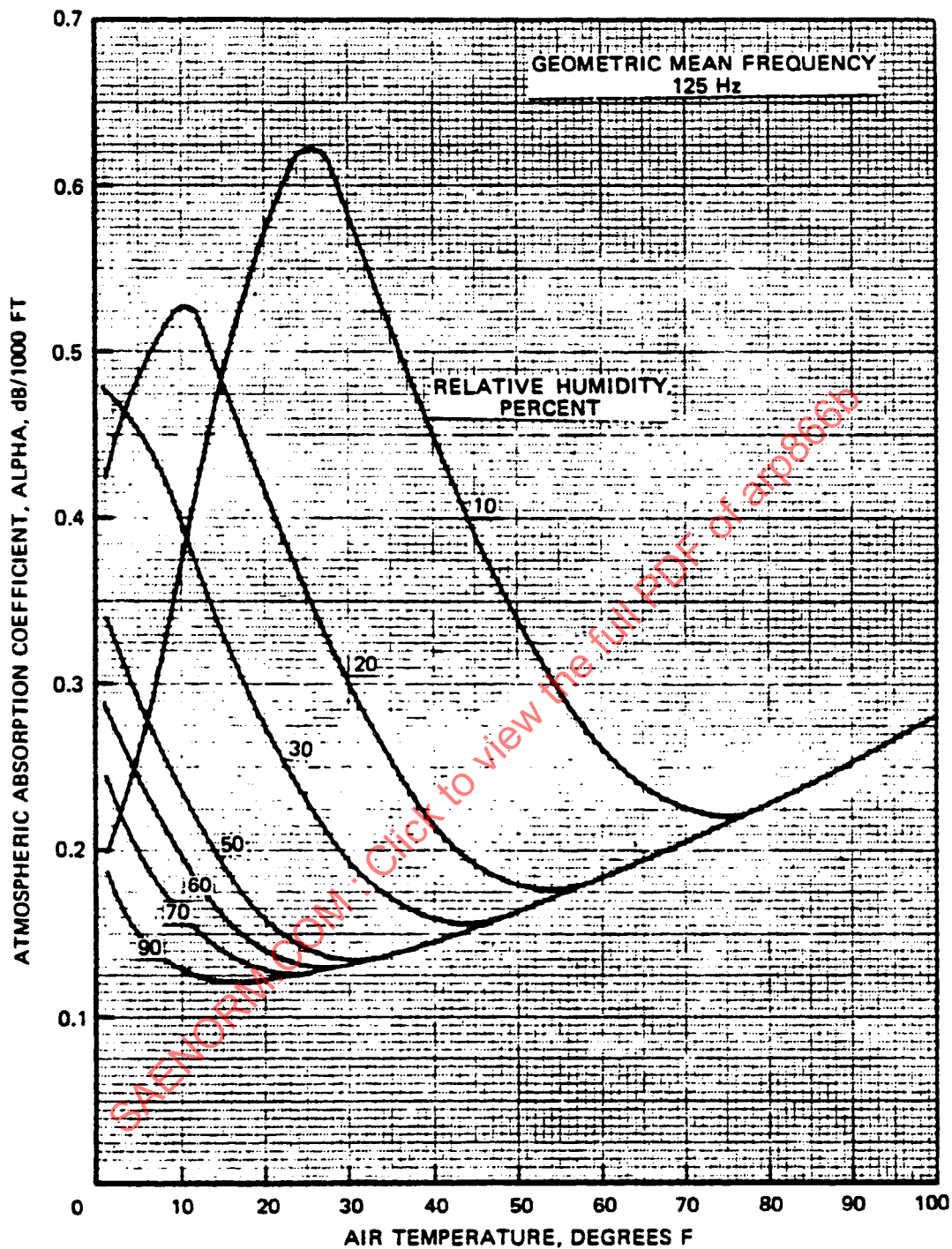


FIGURE 11. CONTINUED

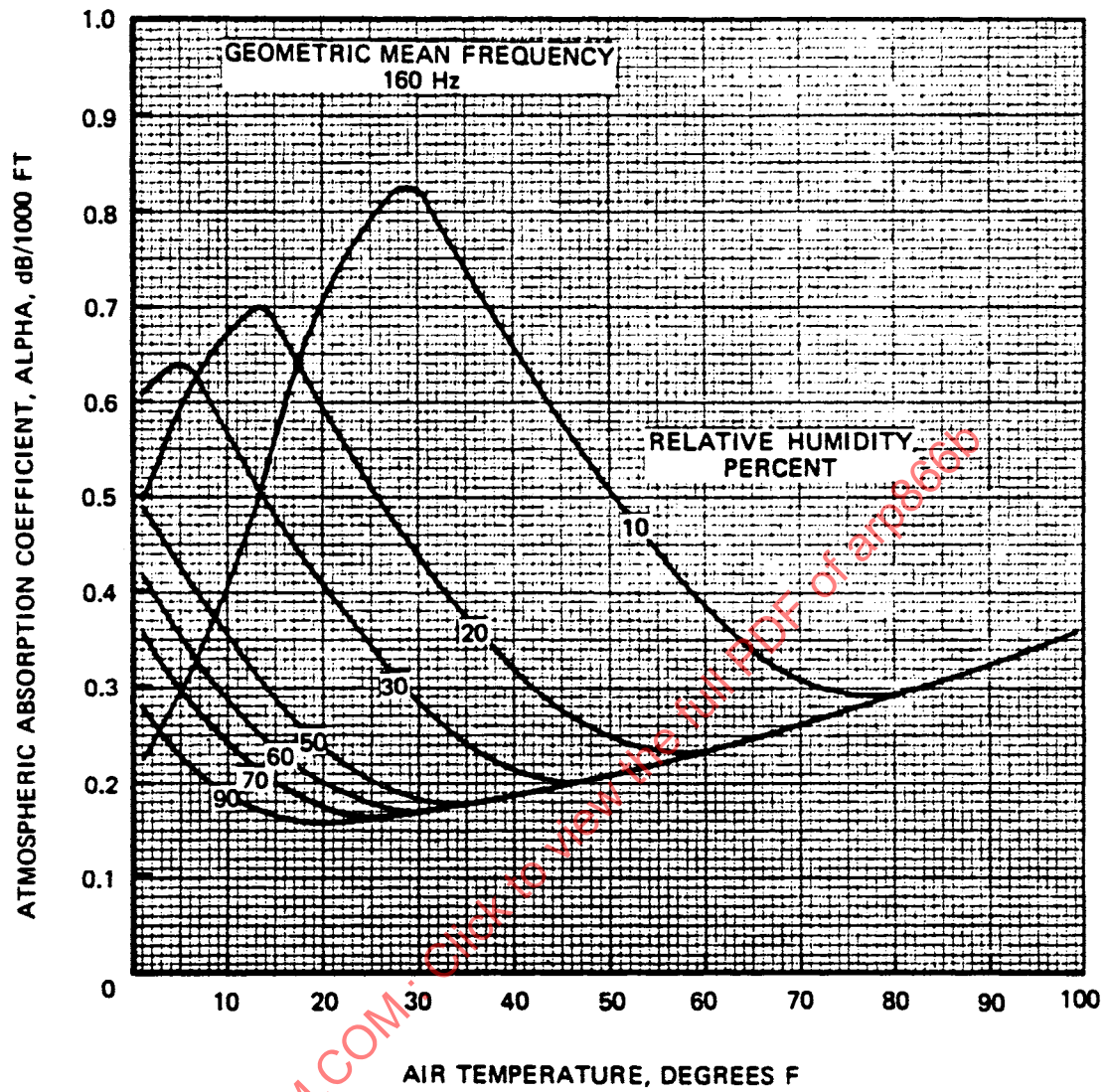


FIGURE 11 CONTINUED

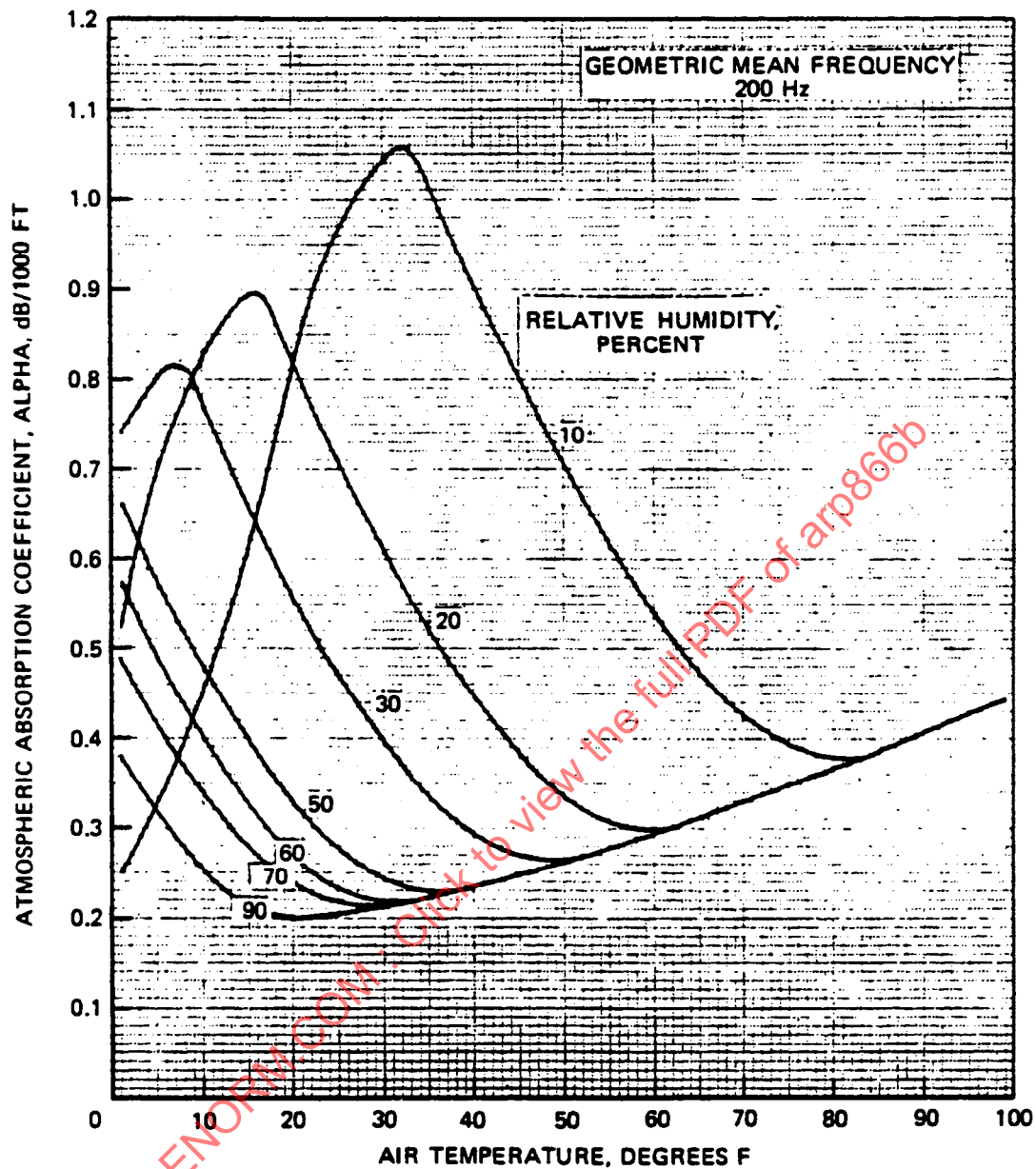


FIGURE 11. CONTINUED

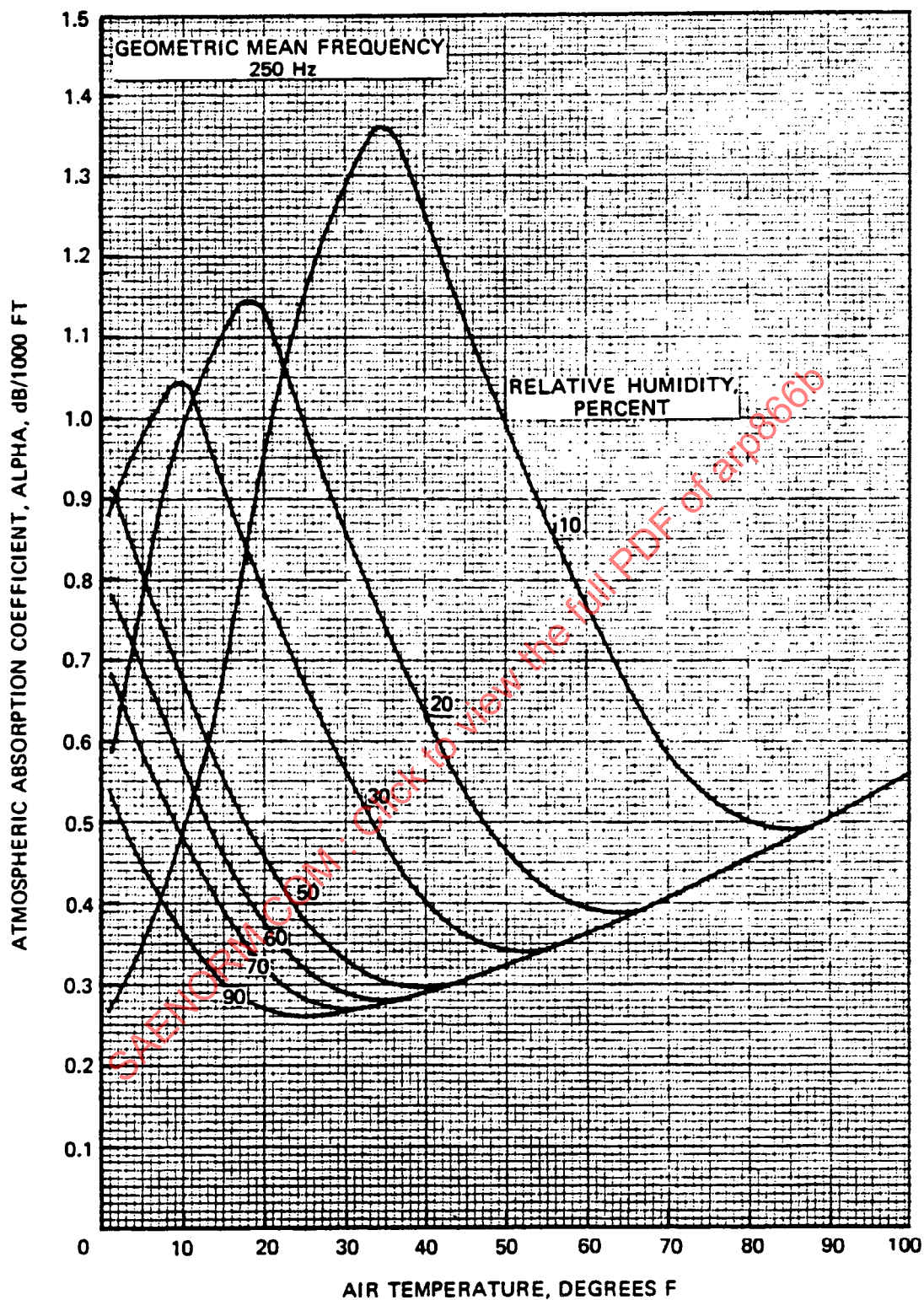


FIGURE 11. CONTINUED

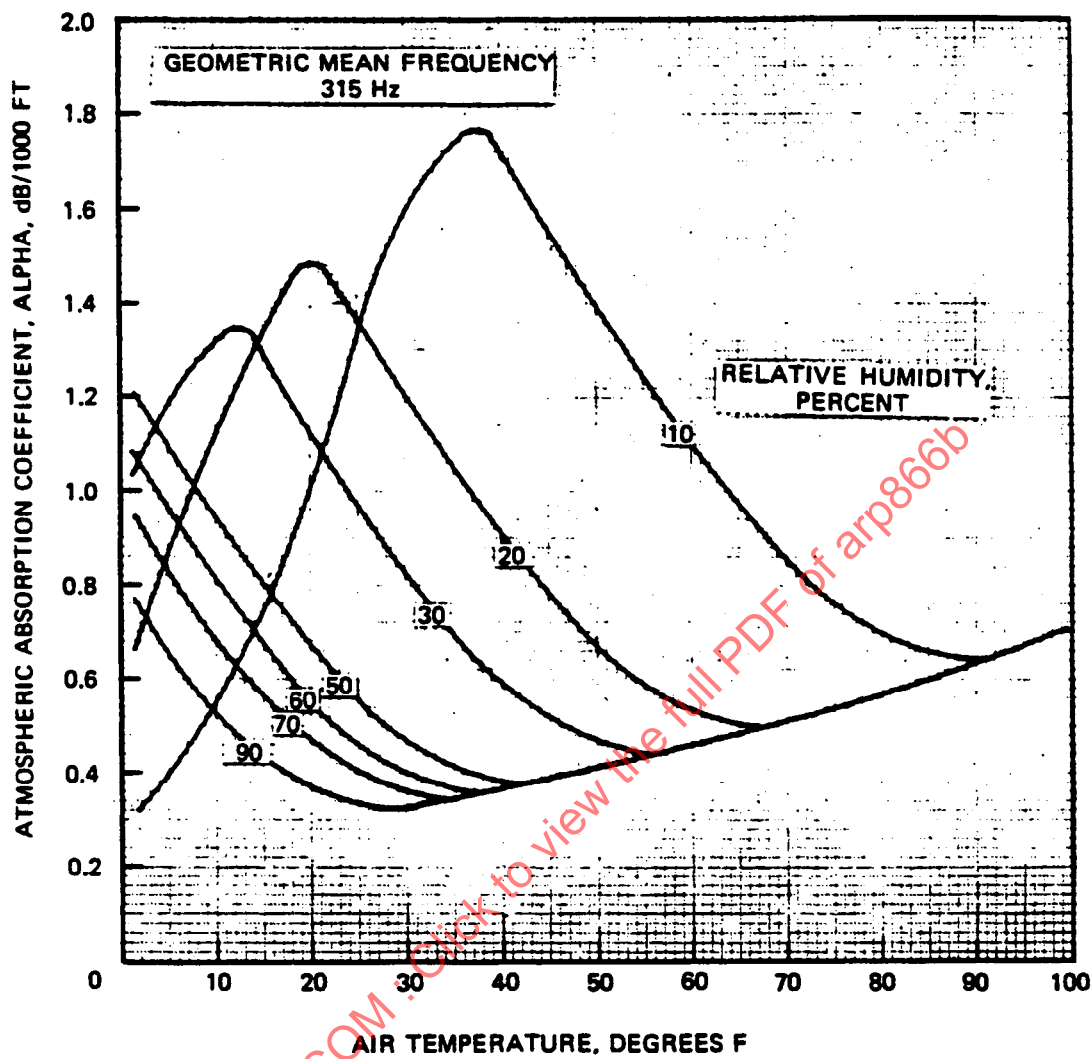


FIGURE 11. CONTINUED

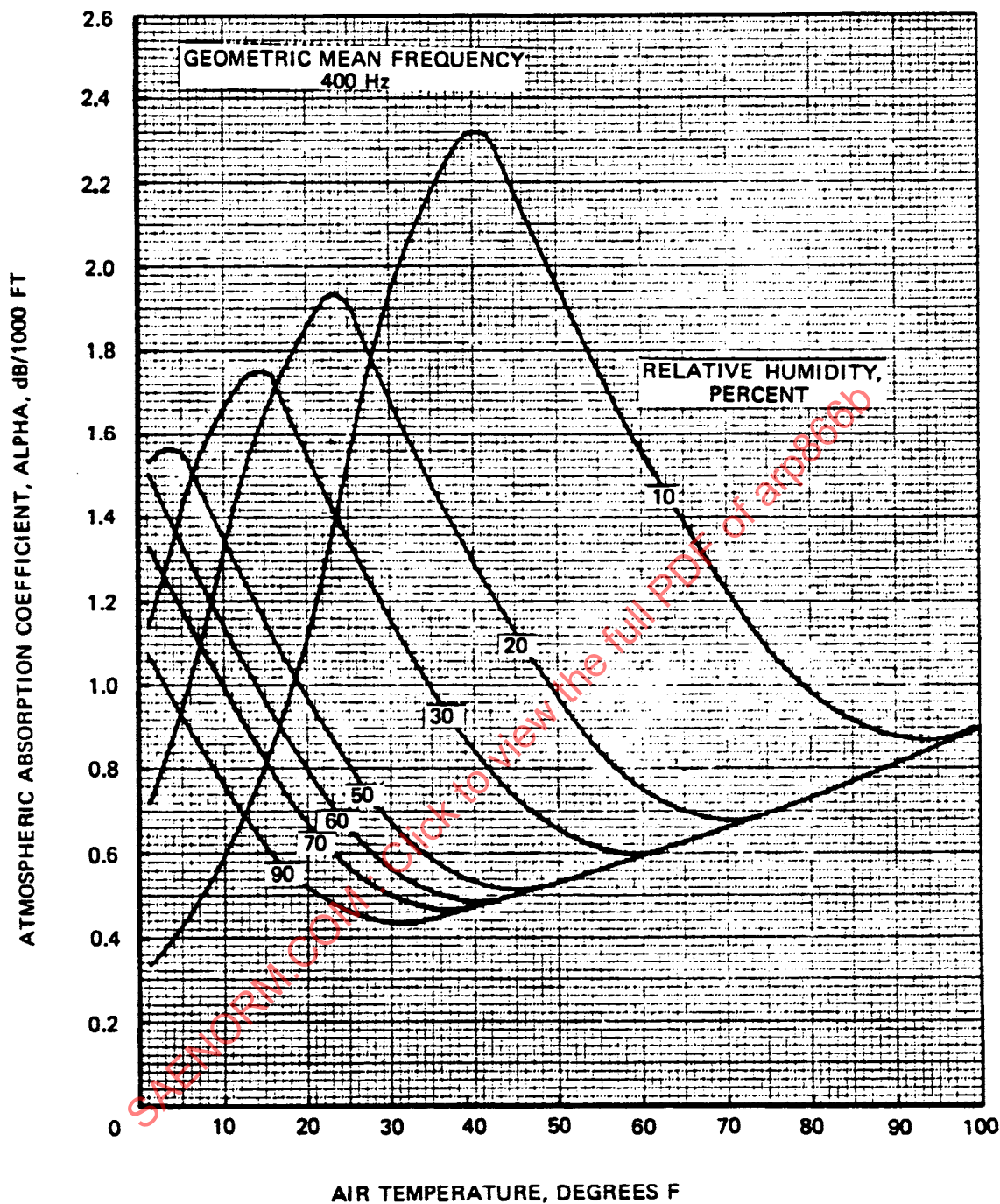


FIGURE 11. CONTINUED

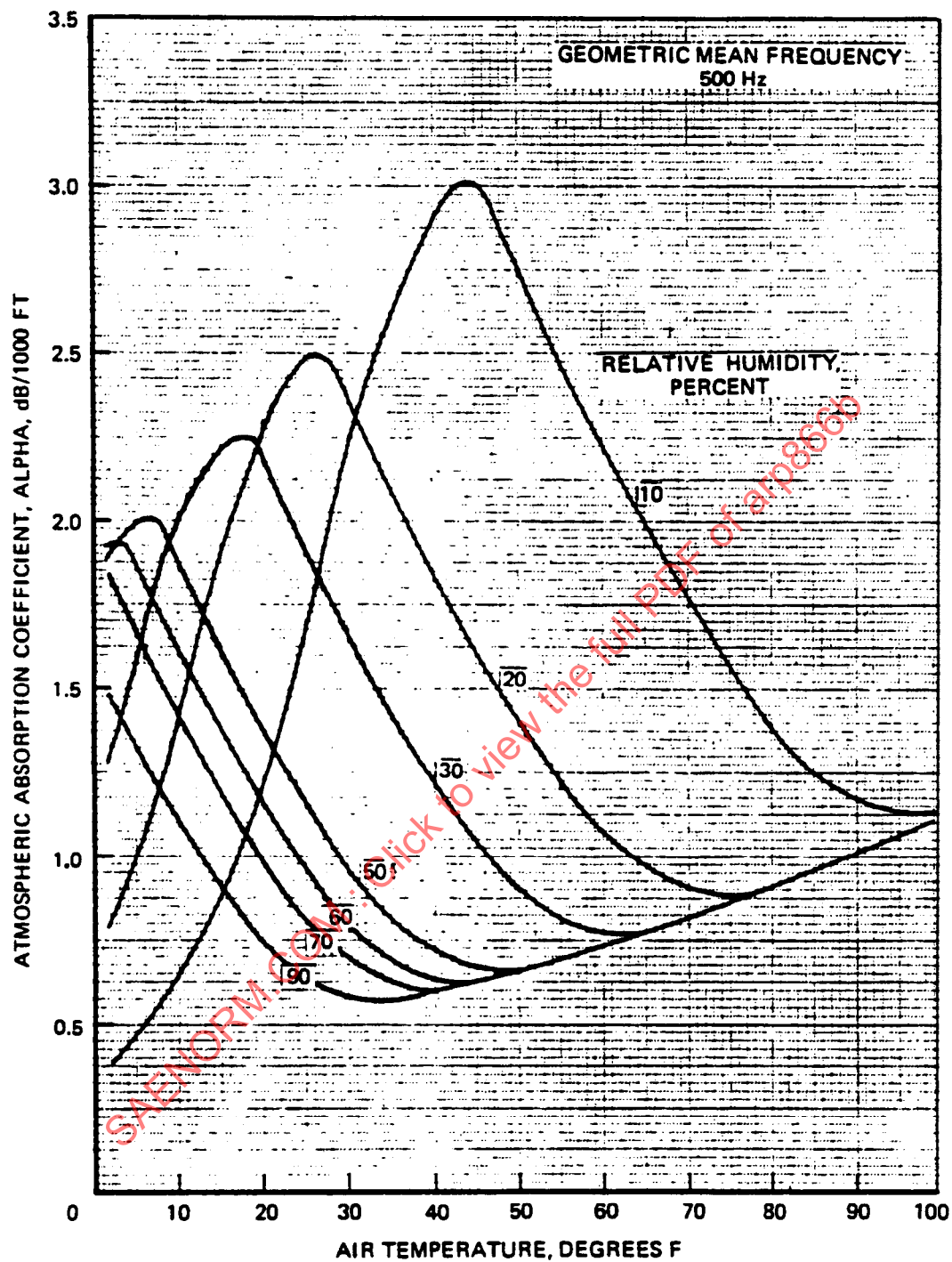


FIGURE 11. CONTINUED

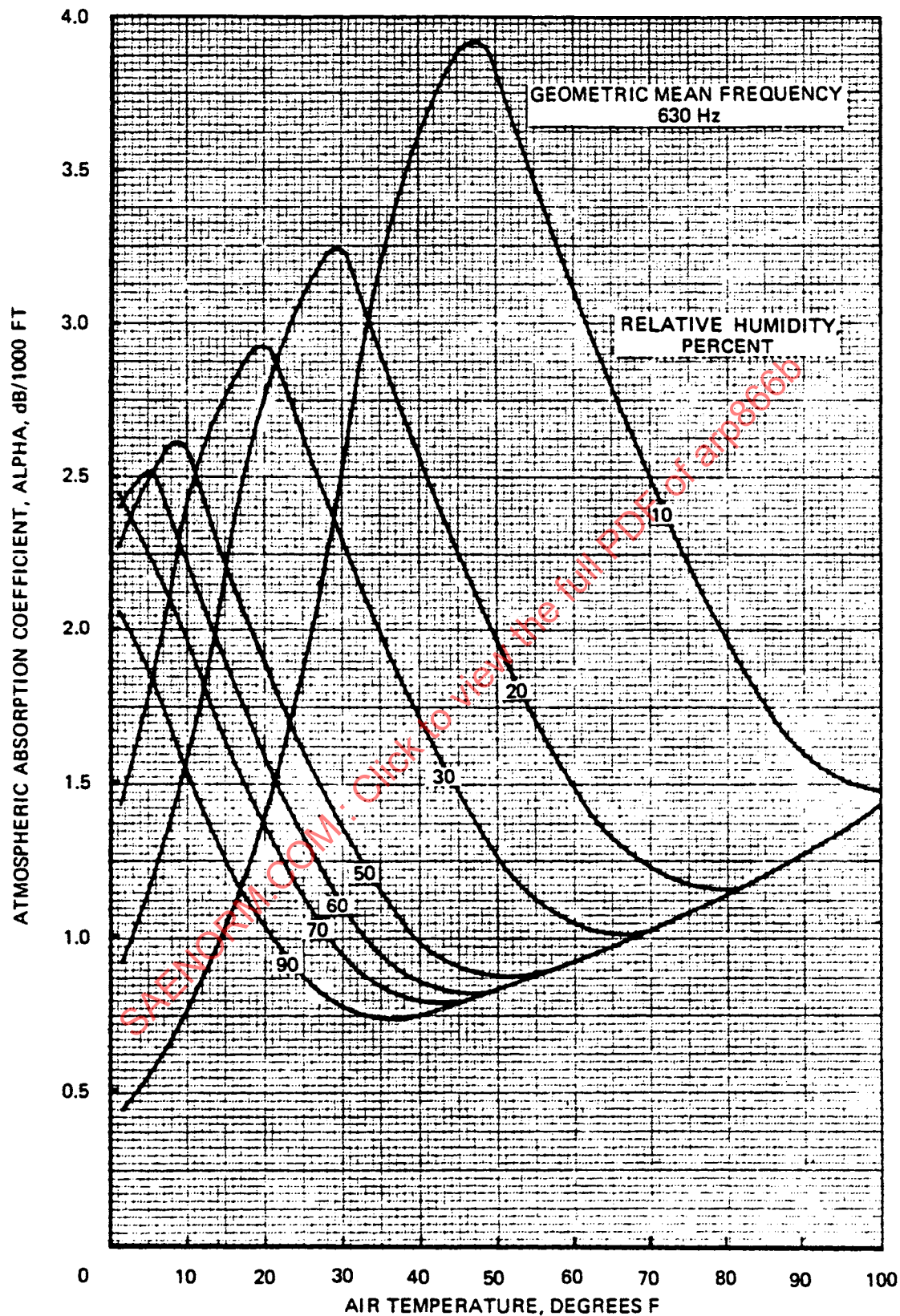


FIGURE 11. CONTINUED

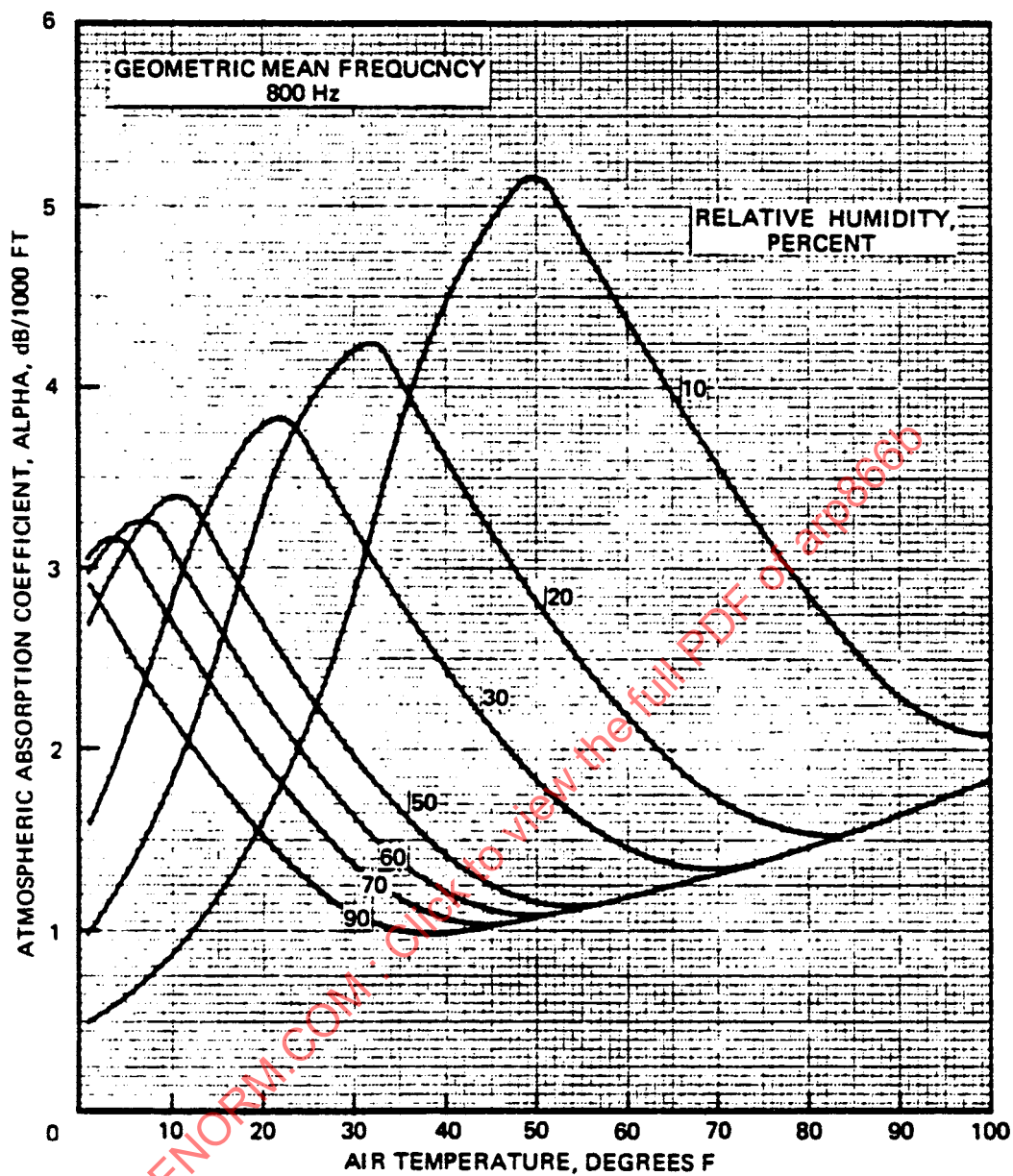


FIGURE 11. CONTINUED

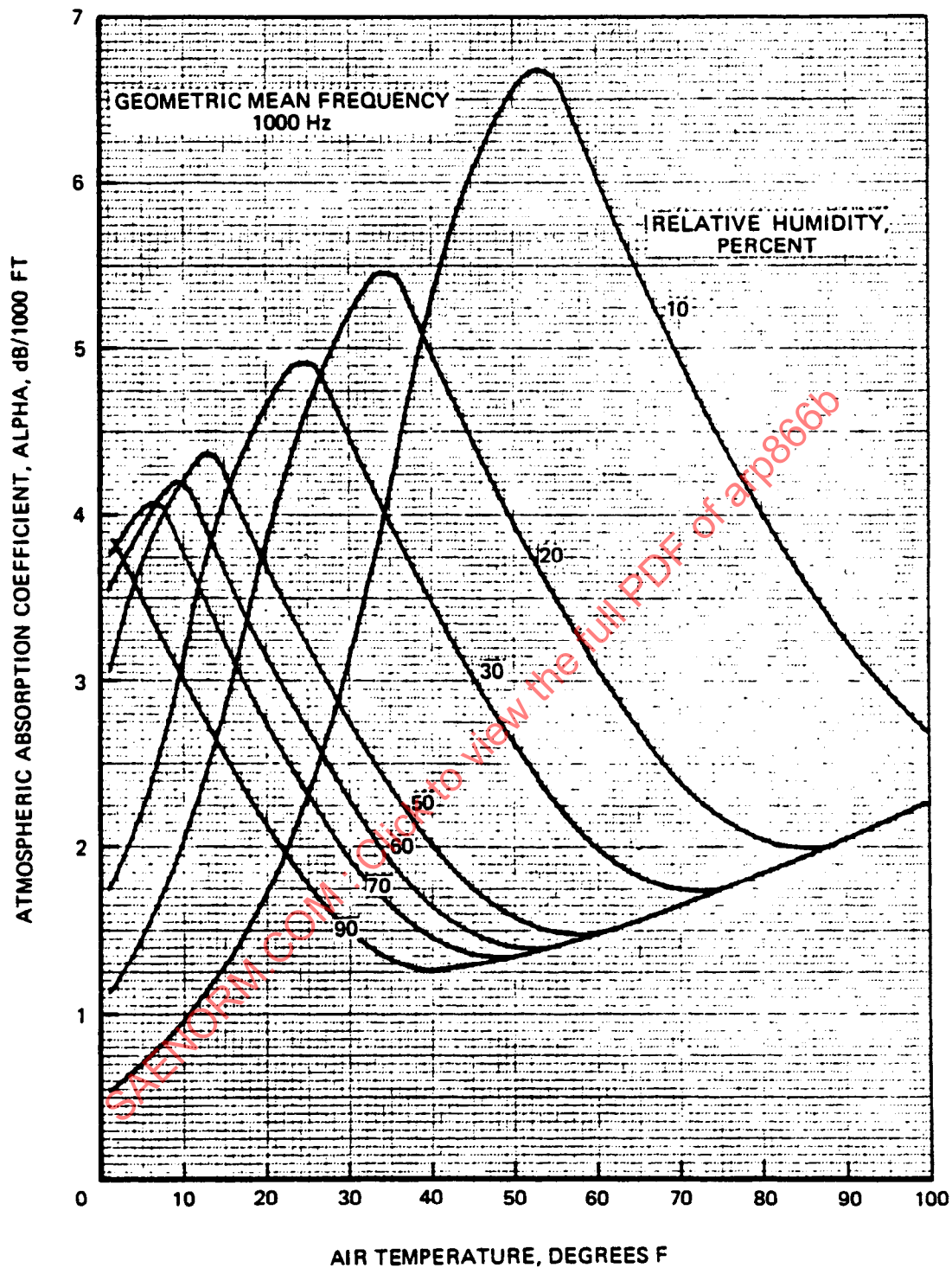


FIGURE 11. CONTINUED

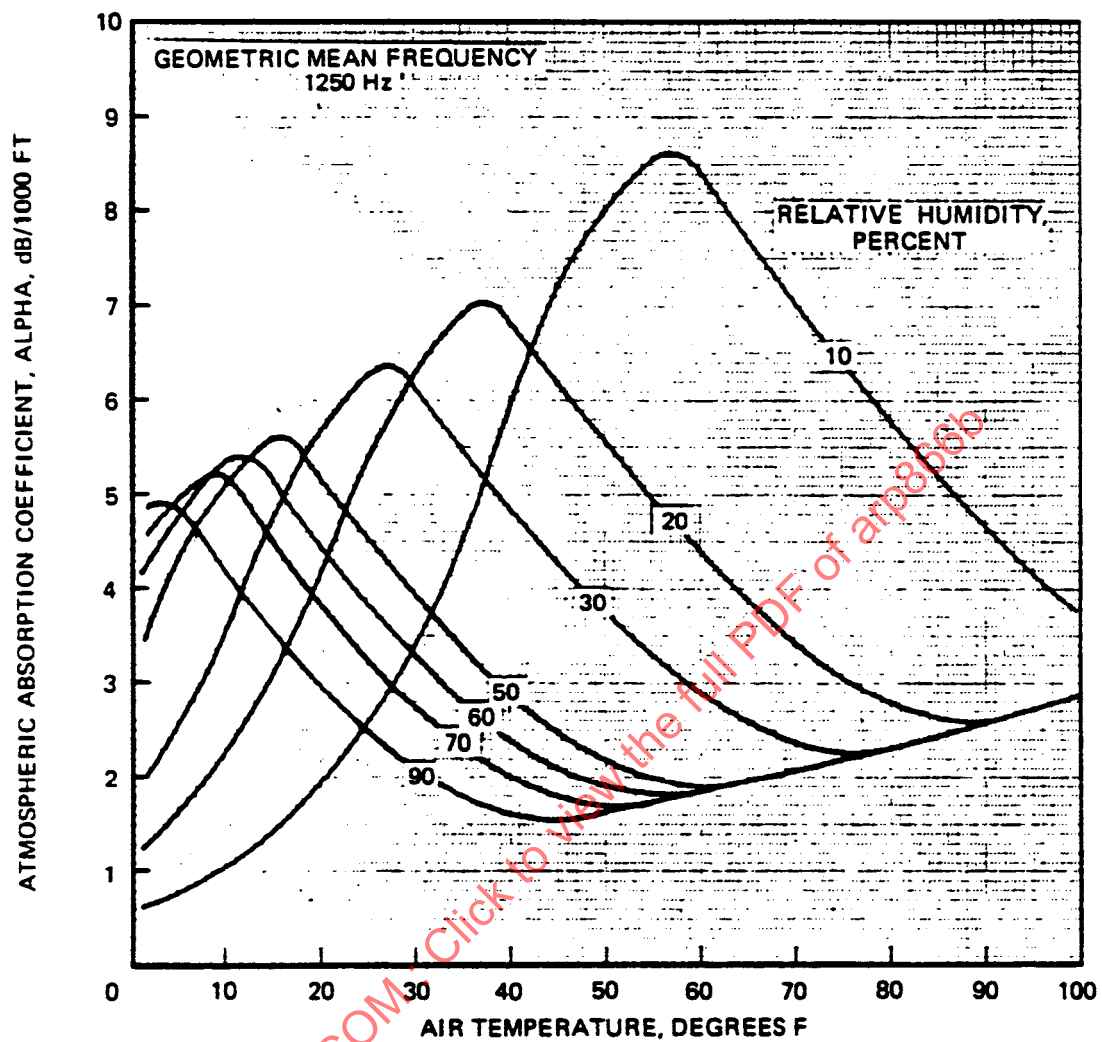


FIGURE 11. CONTINUED

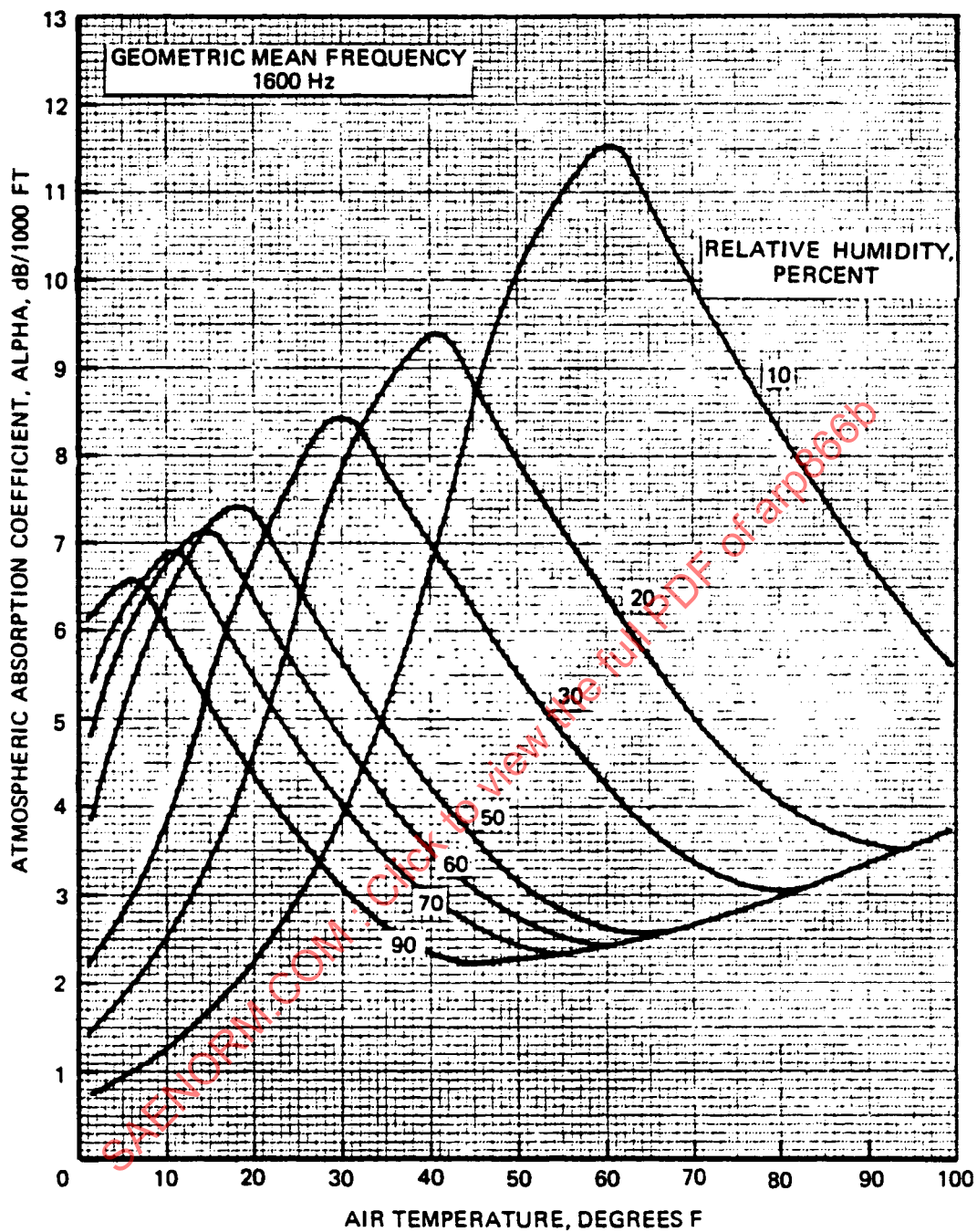


FIGURE 11. CONTINUED

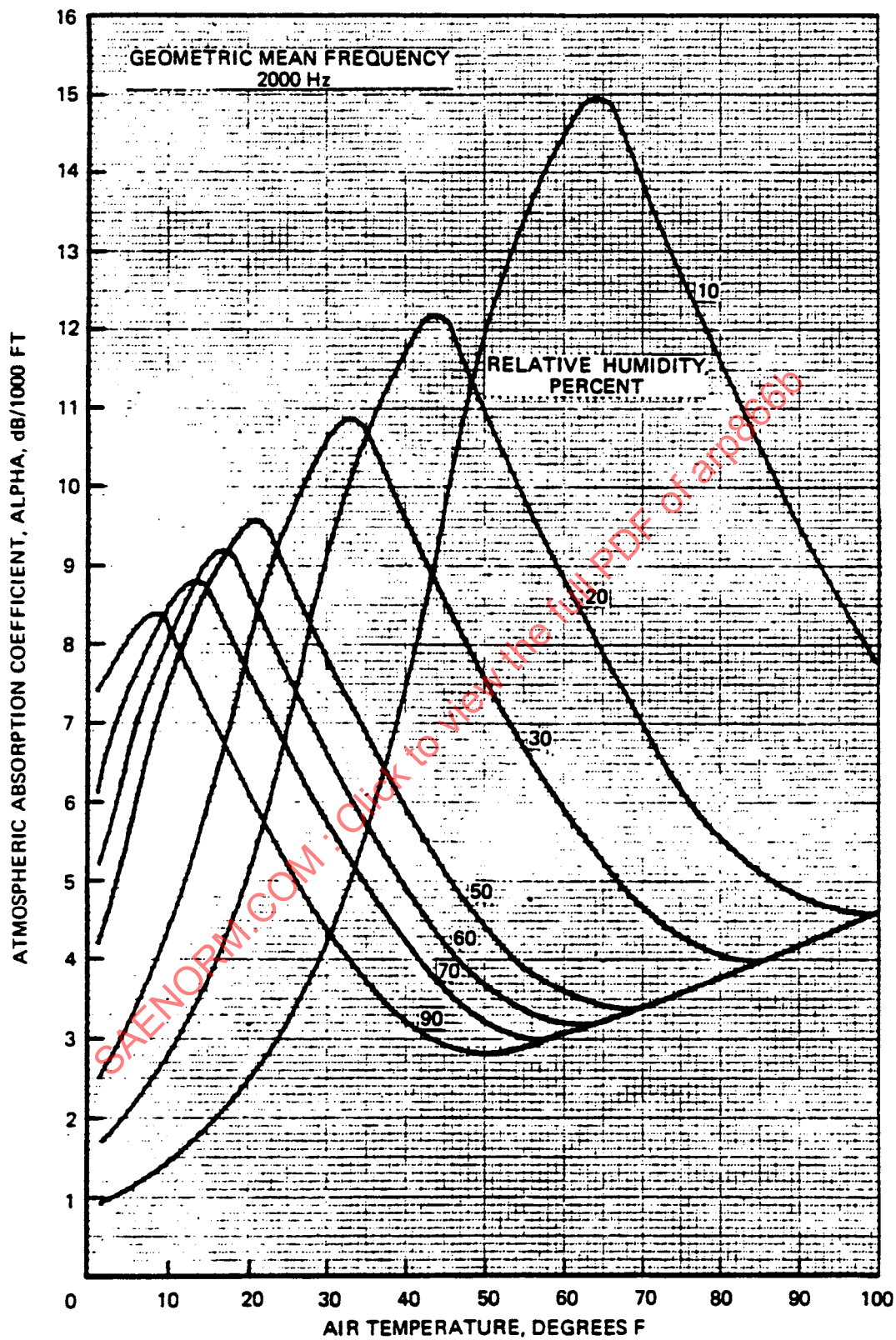


FIGURE 11. CONTINUED

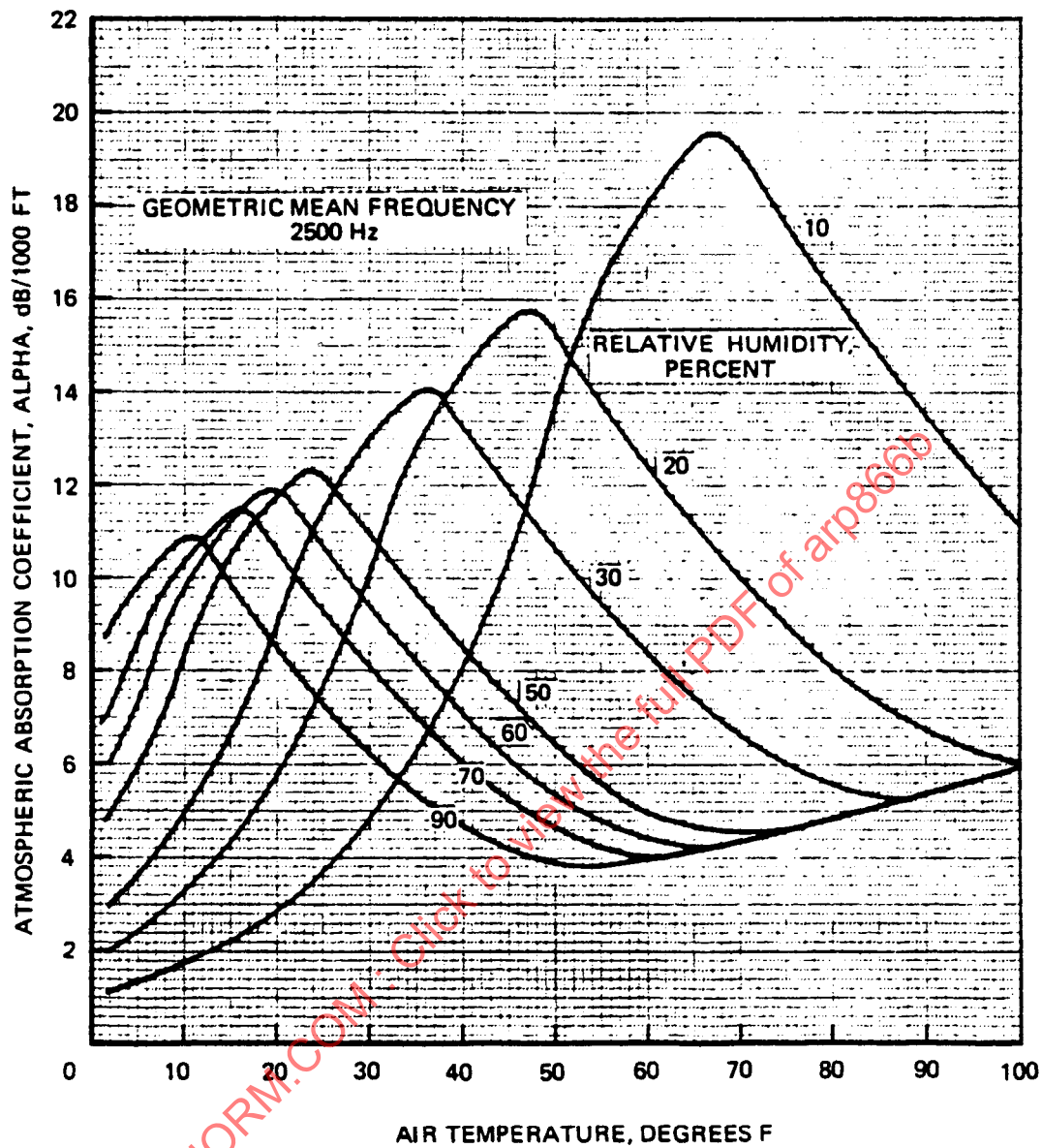


FIGURE 11. CONTINUED

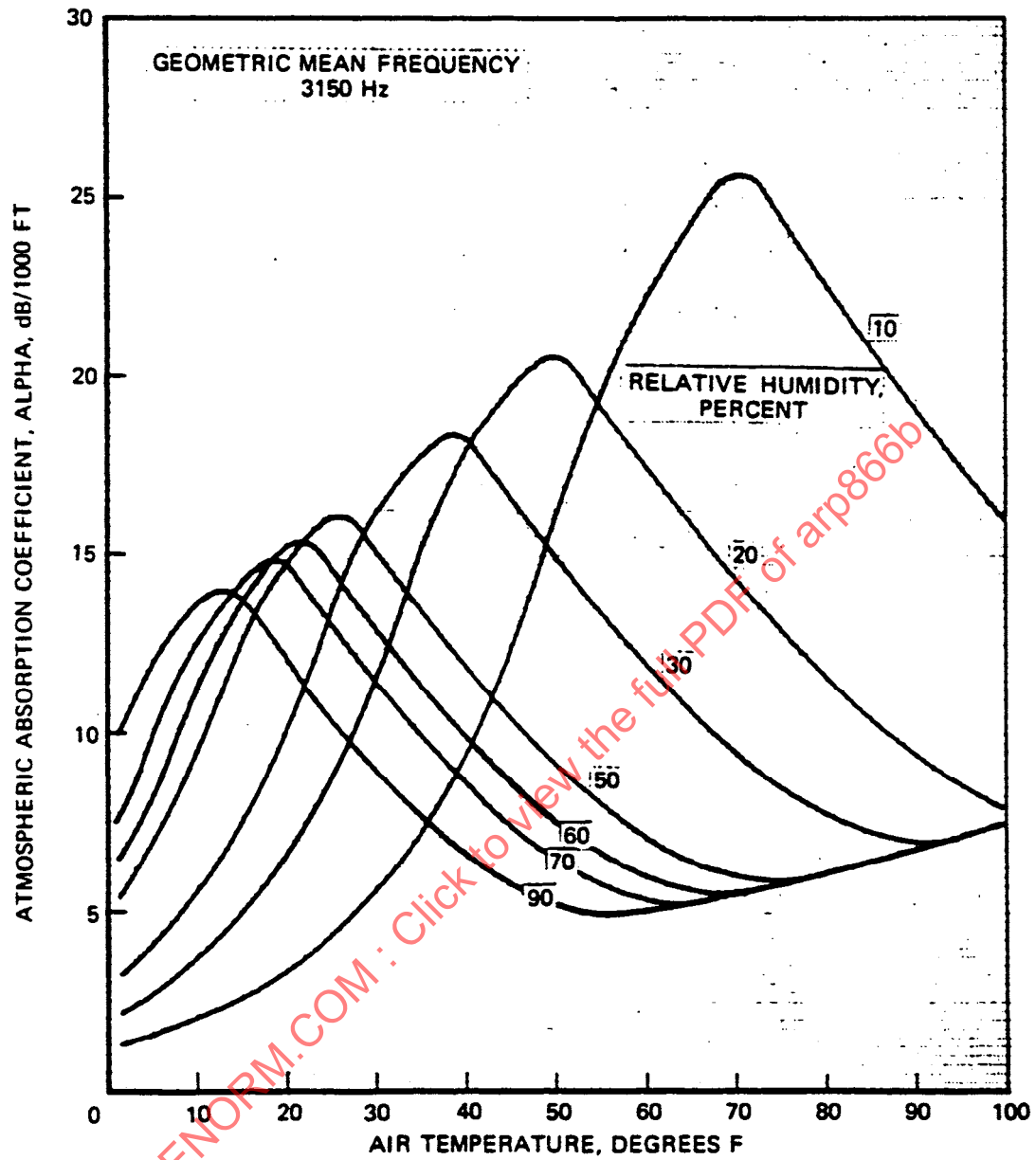


FIGURE 11. CONTINUED

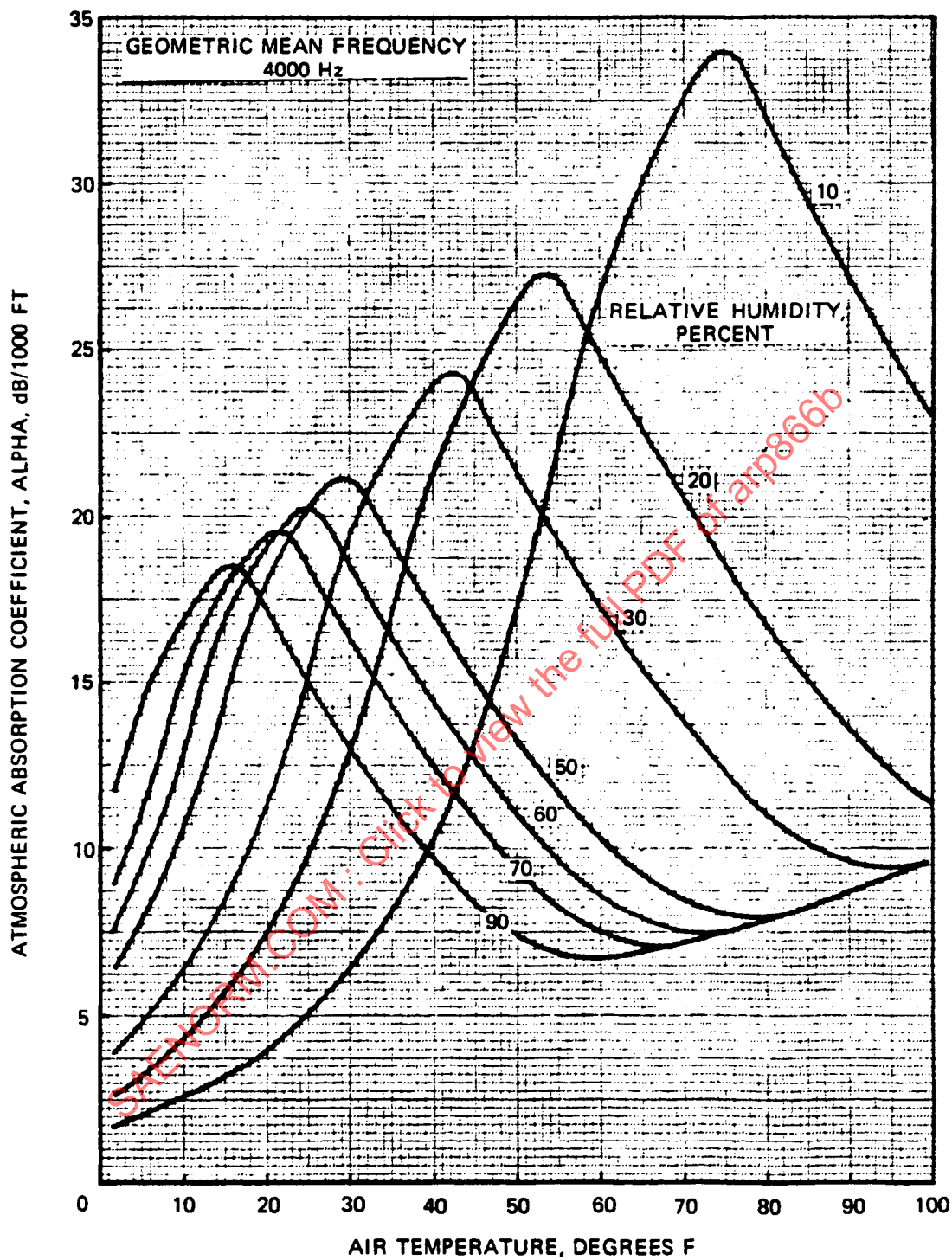
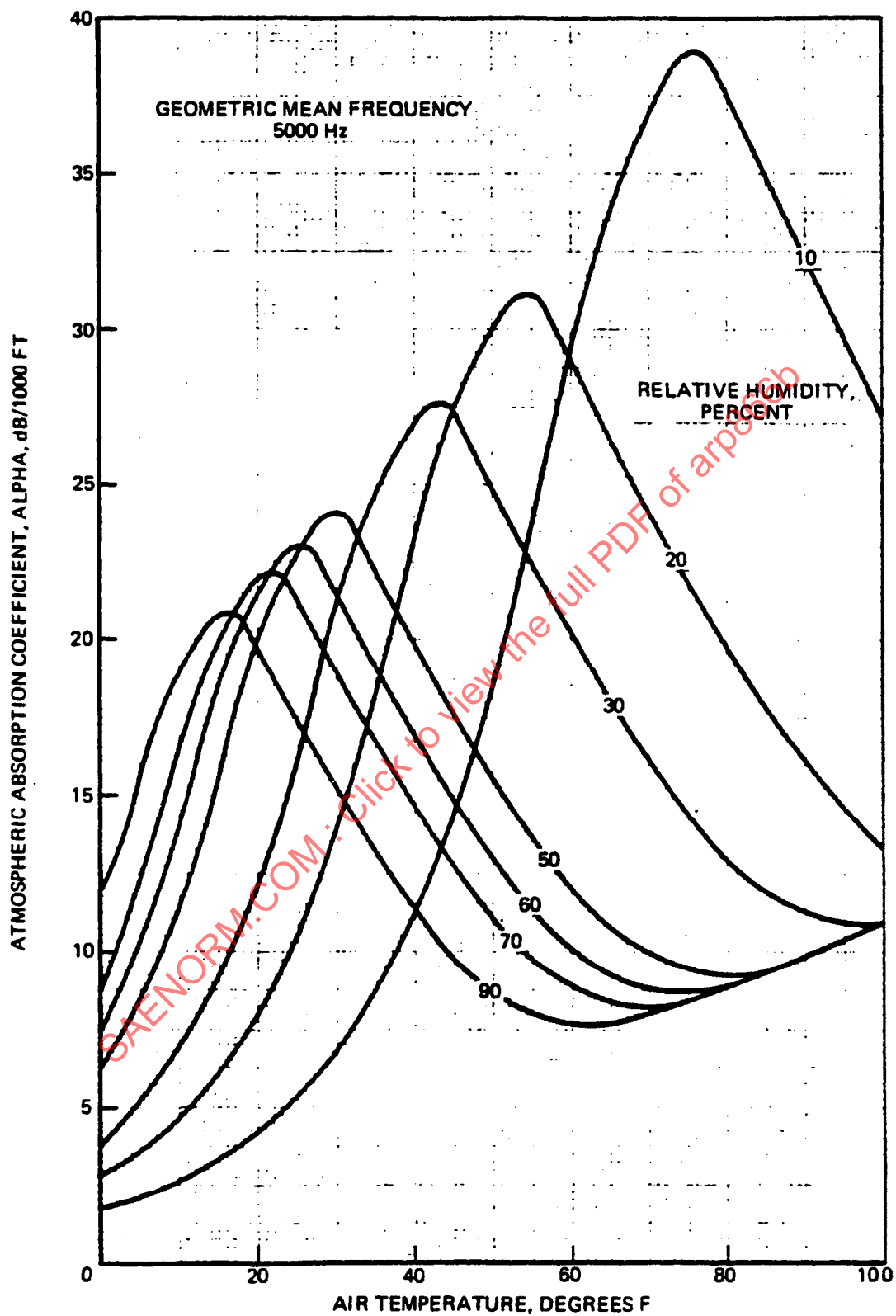
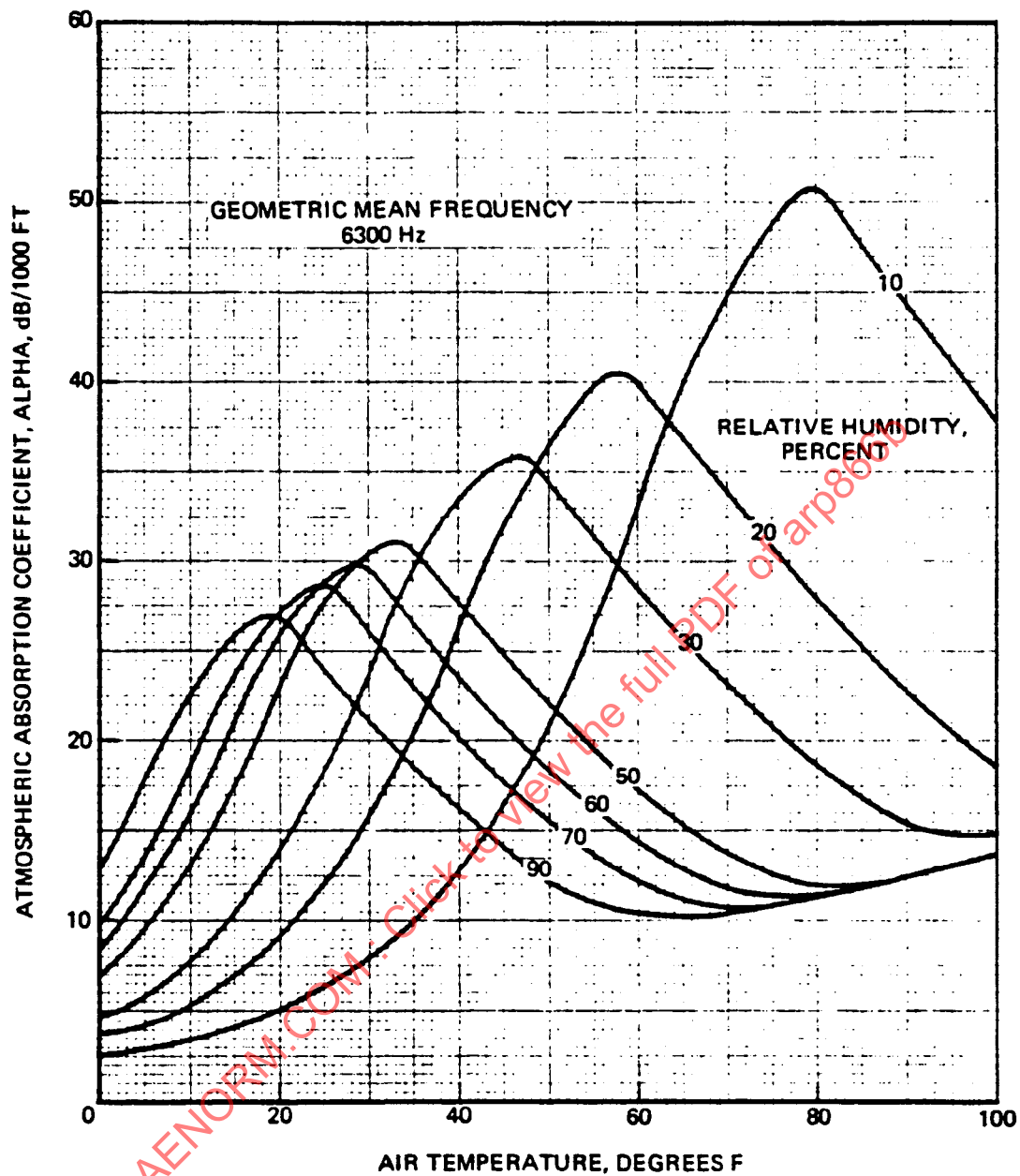


FIGURE 11. CONTINUED



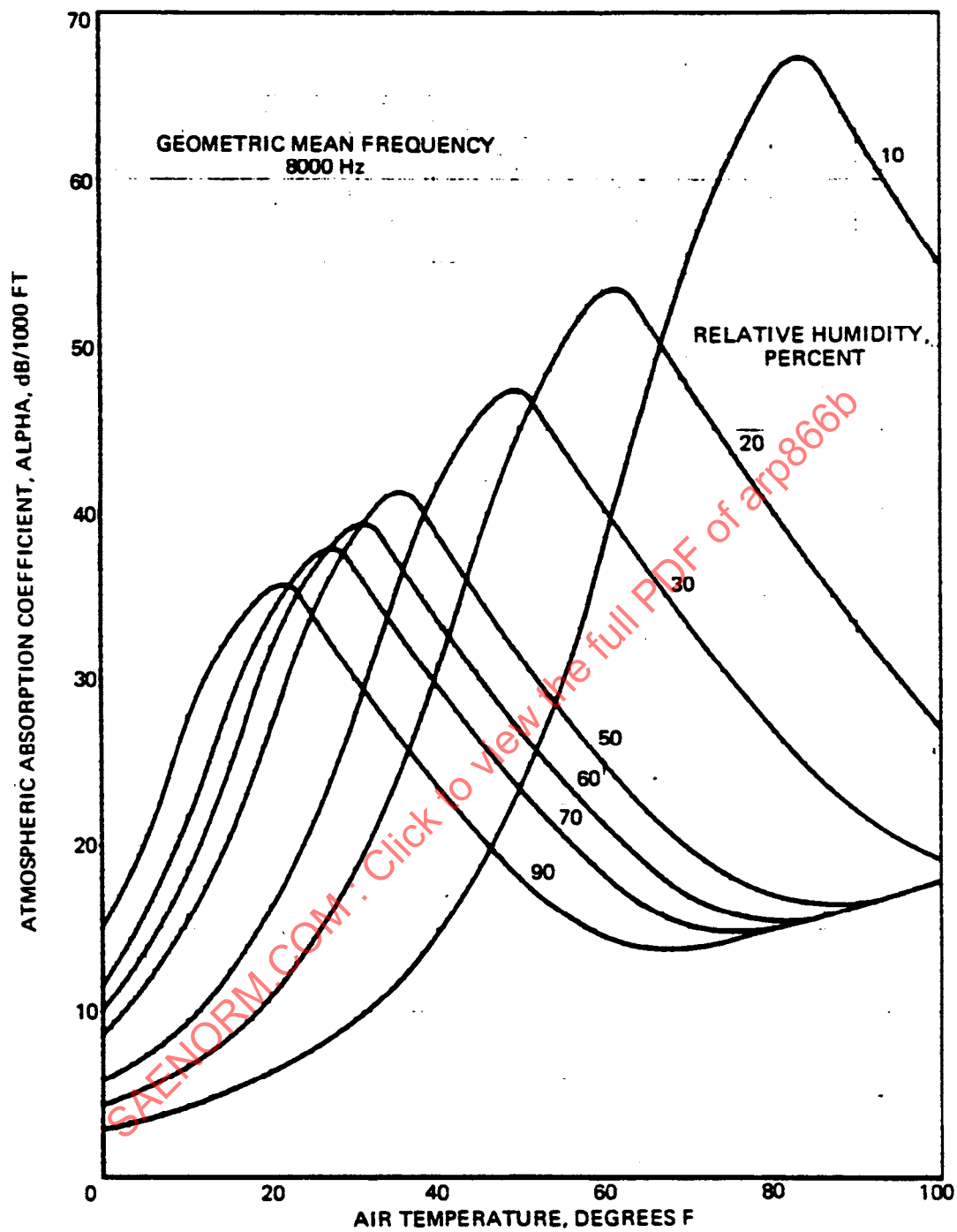
NOTE: Frequency used to calculate these coefficients was 4500 Hz.

FIGURE 11. CONTINUED



NOTE: Frequency used to calculate these coefficients was 5600 Hz.

FIGURE 11. CONTINUED



NOTE: Frequency used to calculate these coefficients was 7100 Hz.

FIGURE 11. CONTINUED

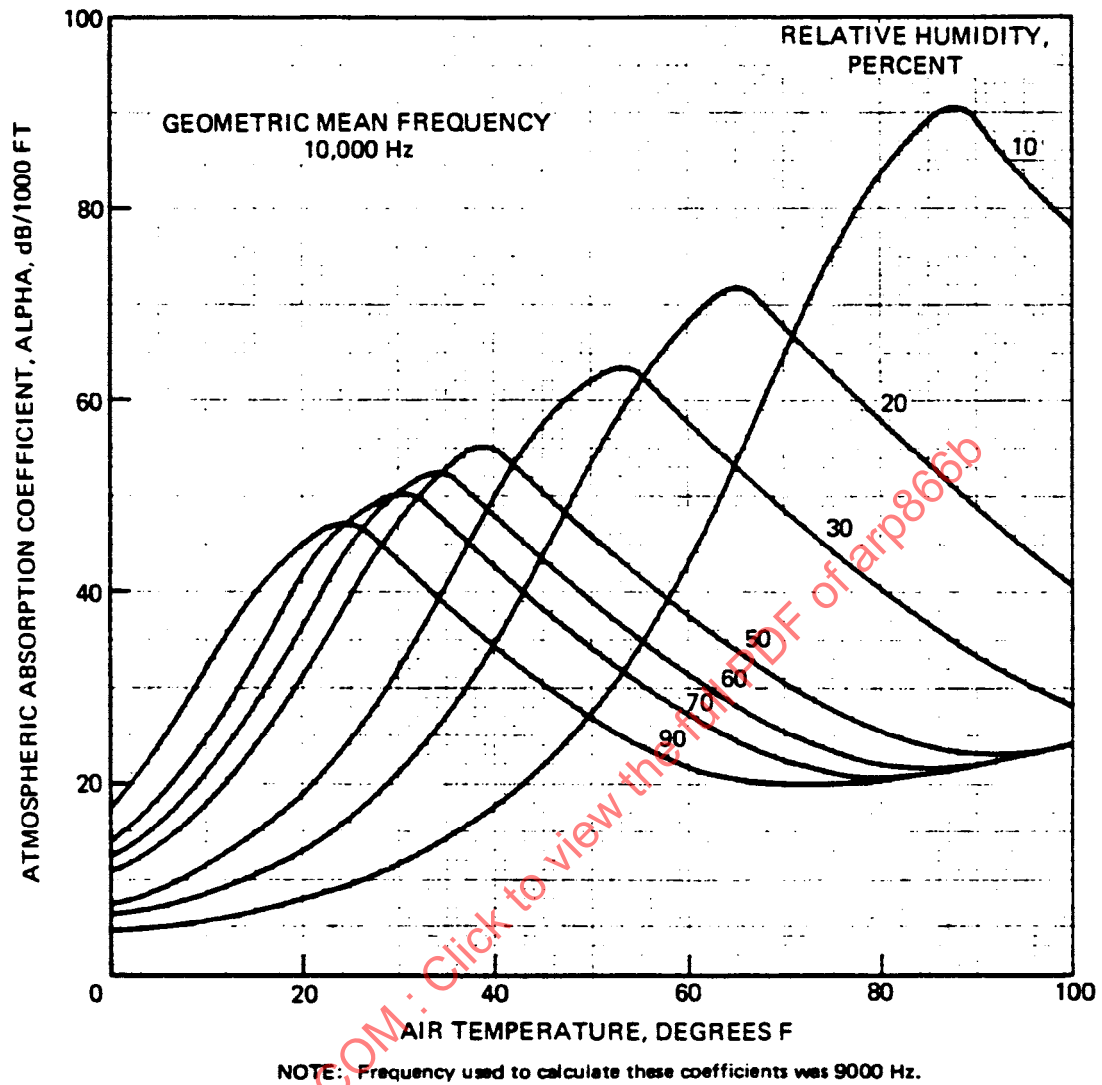


FIGURE 11. CONCLUDED

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TABLE 1
ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/1-OCTAVE BANDS
OF NOISE

This table (next 100 pages) includes atmospheric absorption coefficients for eight 1/1-octave bands, with geometric mean frequencies from 63 to 8,000 Hz, as a function of air temperature from 1°F to 100°F at intervals of 1°F and for relative humidities from 1 percent to 100 percent at intervals of 1 percent.

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ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 1 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.0	0.0	0.0	0.0	0.1	0.2	0.7	1.4	51	0.2	0.3	0.4	0.5	0.8	1.2	2.1
2	0.0	0.0	0.0	0.0	0.1	0.2	0.7	1.5	52	0.2	0.3	0.4	0.6	0.8	1.3	2.2
3	0.0	0.0	0.0	0.0	0.1	0.2	0.7	1.5	53	0.2	0.3	0.4	0.6	0.9	1.3	2.3
4	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5	54	0.2	0.3	0.5	0.6	0.9	1.4	2.3
5	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5	55	0.3	0.4	0.5	0.7	0.9	1.4	2.4
6	0.0	0.0	0.0	0.1	0.1	0.2	0.8	1.5	56	0.3	0.4	0.5	0.7	1.0	1.5	2.5
7	0.0	0.0	0.0	0.1	0.1	0.2	0.8	1.5	57	0.3	0.4	0.5	0.7	1.0	1.5	2.6
8	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.5	58	0.3	0.4	0.6	0.8	1.1	1.6	2.7
9	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.5	59	0.3	0.4	0.6	0.8	1.1	1.7	2.8
10	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.6	60	0.3	0.5	0.6	0.8	1.2	1.7	2.9
11	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.6	61	0.4	0.5	0.6	0.9	1.2	1.8	3.0
12	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.6	62	0.4	0.5	0.7	0.9	1.3	1.9	3.1
13	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	63	0.4	0.5	0.7	1.0	1.4	2.0	3.2
14	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	64	0.4	0.5	0.7	1.0	1.4	2.1	3.3
15	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	65	0.4	0.6	0.8	1.1	1.5	2.2	3.4
16	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	66	0.4	0.6	0.8	1.1	1.5	2.2	3.4
17	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7	67	0.4	0.6	0.9	1.2	1.6	2.3	3.7
18	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7	68	0.5	0.7	0.9	1.2	1.7	2.4	3.8
19	0.0	0.0	0.1	0.1	0.2	0.4	0.9	1.7	69	0.5	0.7	0.9	1.3	1.8	2.5	4.0
20	0.0	0.0	0.1	0.1	0.2	0.4	0.9	1.7	70	0.5	0.7	1.0	1.3	1.8	2.5	4.1
21	0.0	0.0	0.1	0.1	0.2	0.4	0.9	1.8	71	0.5	0.8	1.0	1.4	1.9	2.8	4.3
22	0.0	0.0	0.1	0.1	0.2	0.4	1.0	1.8	72	0.5	0.8	1.1	1.5	2.0	2.9	4.5
23	0.0	0.0	0.1	0.1	0.2	0.4	1.0	1.8	73	0.5	0.8	1.1	1.5	2.1	3.0	4.6
24	0.0	0.0	0.1	0.1	0.2	0.4	1.0	1.9	74	0.5	0.9	1.2	1.6	2.2	3.1	4.8
25	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.9	75	0.5	0.9	1.3	1.7	2.3	3.3	5.0
26	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.9	76	0.5	0.9	1.3	1.8	2.4	3.4	5.2
27	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	77	0.5	1.0	1.4	1.8	2.5	3.6	5.4
28	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	78	0.6	1.0	1.5	1.9	2.6	3.7	5.6
29	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0	79	0.6	1.0	1.5	2.0	2.8	3.9	5.8
30	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0	80	0.6	1.1	1.6	2.1	2.9	4.1	6.0
31	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0	81	0.6	1.1	1.6	2.2	3.0	4.2	6.3
32	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1	82	0.6	1.1	1.7	2.3	3.1	4.4	6.5
33	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1	83	0.6	1.1	1.8	2.4	3.3	4.6	6.8
34	0.1	0.1	0.1	0.2	0.3	0.6	1.3	2.2	84	0.6	1.1	1.9	2.5	3.4	4.8	7.1
35	0.1	0.1	0.1	0.2	0.3	0.6	1.3	2.2	85	0.6	1.2	1.9	2.7	3.6	5.0	7.3
36	0.1	0.1	0.1	0.2	0.3	0.7	1.3	2.3	86	0.5	1.2	2.0	2.8	3.8	5.2	7.6
37	0.1	0.1	0.1	0.2	0.3	0.7	1.4	2.3	87	0.5	1.2	2.1	2.9	3.9	5.4	7.9
38	0.1	0.1	0.1	0.2	0.3	0.7	1.4	2.3	88	0.5	1.2	2.2	3.0	4.1	5.7	8.3
39	0.1	0.1	0.2	0.3	0.5	0.8	1.5	2.4	89	0.5	1.3	2.2	3.2	4.3	5.9	8.6
40	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4	90	0.5	1.3	2.3	3.3	4.5	6.2	8.9
41	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5	91	0.5	1.3	2.4	3.5	4.7	6.5	9.3
42	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.6	92	0.5	1.3	2.5	3.7	4.9	6.7	9.7
43	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.6	93	0.5	1.3	2.5	3.8	5.1	7.0	10.1
44	0.1	0.2	0.3	0.4	0.6	0.9	1.7	2.7	94	0.5	1.3	2.5	4.0	5.4	7.3	10.5
45	0.2	0.2	0.3	0.4	0.6	1.0	1.7	2.7	95	0.5	1.3	2.6	4.1	5.6	8.0	10.9
46	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8	96	0.5	1.3	2.6	4.3	5.9	8.3	11.4
47	0.2	0.2	0.3	0.5	0.7	1.0	1.9	2.9	97	0.5	1.2	2.7	4.5	6.1	8.3	11.8
48	0.2	0.2	0.3	0.5	0.7	1.1	1.9	3.0	98	0.5	1.2	2.7	4.6	6.4	9.1	12.3
49	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0	99	0.4	1.2	2.7	4.8	6.7	9.7	12.8
50	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.1	100	0.4	1.2	2.8	4.9	7.0	9.5	13.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 2 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	51	0.4	0.6	0.9	1.2	1.6	2.3	3.6	5.0	T	0.4	0.6	0.9	1.2	1.6	2.3	3.6	5.0
2	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	52	0.4	0.7	0.9	1.2	1.7	2.4	3.8	5.2	E	0.4	0.7	0.9	1.2	1.7	2.4	3.8	5.2
3	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6	53	0.4	0.7	0.9	1.3	1.8	2.5	3.9	5.4	M	0.4	0.7	0.9	1.3	1.8	2.5	3.9	5.4
4	0.0	0.0	0.1	0.1	0.2	0.3	0.8	1.6	54	0.4	0.7	1.0	1.3	1.9	2.7	4.1	5.6	P	0.4	0.7	1.0	1.3	1.9	2.7	4.1	5.6
5	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.6	55	0.4	0.7	1.1	1.4	1.9	2.8	4.3	6.0	R	0.4	0.7	1.1	1.4	1.9	2.8	4.3	6.0
6	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7	56	0.4	0.8	1.1	1.5	2.0	2.9	4.4	6.2	A	0.4	0.8	1.1	1.5	2.0	2.9	4.4	6.2
7	0.0	0.1	0.1	0.1	0.2	0.3	0.9	1.7	57	0.4	0.8	1.2	1.6	2.1	3.0	4.6	6.4	T	0.4	0.8	1.2	1.6	2.1	3.0	4.6	6.4
8	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	58	0.4	0.8	1.2	1.6	2.2	3.2	4.8	6.4	E	0.4	0.8	1.2	1.6	2.2	3.2	4.8	6.4
9	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	59	0.4	0.8	1.3	1.7	2.4	3.3	5.0	6.7	M	0.4	0.8	1.3	1.7	2.4	3.3	5.0	6.7
10	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8	60	0.5	0.9	1.3	1.8	2.5	3.5	5.2	6.9	P	0.5	0.9	1.3	1.8	2.5	3.5	5.2	6.9
11	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8	61	0.4	0.9	1.4	1.9	2.6	3.6	5.5	7.2	R	0.4	0.9	1.4	1.9	2.6	3.6	5.5	7.2
12	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8	62	0.4	0.9	1.5	2.0	2.7	3.8	5.7	7.5	A	0.4	0.9	1.5	2.0	2.7	3.8	5.7	7.5
13	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8	63	0.4	0.9	1.5	2.1	2.8	4.0	5.9	7.8	T	0.4	0.9	1.5	2.1	2.8	4.0	5.9	7.8
14	0.1	0.1	0.1	0.2	0.3	0.5	1.0	1.9	64	0.4	0.9	1.6	2.2	3.0	4.2	6.2	8.1	E	0.4	0.9	1.6	2.2	3.0	4.2	6.2	8.1
15	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	65	0.4	0.9	1.7	2.3	3.1	4.4	6.4	8.4	M	0.4	0.9	1.7	2.3	3.1	4.4	6.4	8.4
16	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	66	0.4	0.9	1.7	2.4	3.3	4.6	6.7	8.7	P	0.4	0.9	1.7	2.4	3.3	4.6	6.7	8.7
17	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0	67	0.4	1.0	1.8	2.6	3.4	4.8	7.0	9.0	R	0.4	1.0	1.8	2.6	3.4	4.8	7.0	9.0
18	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0	68	0.4	1.0	1.8	2.7	3.6	5.0	7.3	9.4	A	0.4	1.0	1.8	2.7	3.6	5.0	7.3	9.4
19	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1	69	0.4	1.0	1.9	2.8	3.8	5.2	7.6	9.7	T	0.4	1.0	1.9	2.8	3.8	5.2	7.6	9.7
20	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1	70	0.4	1.0	1.9	2.9	4.0	5.5	7.9	10.1	E	0.4	1.0	1.9	2.9	4.0	5.5	7.9	10.1
21	0.1	0.1	0.2	0.2	0.4	0.6	1.3	2.1	71	0.4	1.0	2.0	3.1	4.2	5.7	8.2	10.5	M	0.4	1.0	2.0	3.1	4.2	5.7	8.2	10.5
22	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2	72	0.4	1.0	2.0	3.2	4.4	6.0	8.6	10.9	P	0.4	1.0	2.0	3.2	4.4	6.0	8.6	10.9
23	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2	73	0.4	1.0	2.0	3.3	4.6	6.3	9.0	11.4	R	0.4	1.0	2.0	3.3	4.6	6.3	9.0	11.4
24	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3	74	0.4	1.0	2.1	3.5	4.8	6.5	9.4	11.8	A	0.4	1.0	2.1	3.5	4.8	6.5	9.4	11.8
25	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3	75	0.4	0.9	2.1	3.6	5.0	6.8	9.8	12.3	T	0.4	0.9	2.1	3.6	5.0	6.8	9.8	12.3
26	0.1	0.2	0.2	0.3	0.5	0.7	1.5	2.4	76	0.3	0.9	2.1	3.7	5.3	7.2	10.2	12.8	E	0.3	0.9	2.1	3.7	5.3	7.2	10.2	12.8
27	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5	77	0.3	0.9	2.2	3.9	5.5	7.5	10.6	13.3	M	0.3	0.9	2.2	3.9	5.5	7.5	10.6	13.3
28	0.1	0.2	0.2	0.3	0.5	0.8	1.6	2.5	78	0.3	0.9	2.2	4.0	5.8	7.8	11.1	13.9	P	0.3	0.9	2.2	4.0	5.8	7.8	11.1	13.9
29	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.6	79	0.3	0.9	2.2	4.1	6.1	8.2	11.5	14.4	R	0.3	0.9	2.2	4.1	6.1	8.2	11.5	14.4
30	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6	80	0.3	0.9	2.2	4.2	6.4	8.6	12.0	15.0	A	0.3	0.9	2.2	4.2	6.4	8.6	12.0	15.0
31	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7	81	0.3	0.9	2.3	4.3	6.6	9.0	12.6	15.6	T	0.3	0.9	2.3	4.3	6.6	9.0	12.6	15.6
32	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8	82	0.3	0.9	2.3	4.4	6.9	9.4	13.1	16.3	E	0.3	0.9	2.3	4.4	6.9	9.4	13.1	16.3
33	0.2	0.2	0.3	0.5	0.7	1.0	1.9	2.9	83	0.3	0.8	2.3	4.5	7.2	9.8	13.7	16.9	M	0.3	0.8	2.3	4.5	7.2	9.8	13.7	16.9
34	0.2	0.3	0.3	0.5	0.7	1.1	1.9	2.9	84	0.3	0.8	2.2	4.6	7.5	10.3	14.3	17.6	P	0.3	0.8	2.2	4.6	7.5	10.3	14.3	17.6
35	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0	85	0.3	0.8	2.2	4.7	7.8	10.7	14.9	18.4	R	0.3	0.8	2.2	4.7	7.8	10.7	14.9	18.4
36	0.2	0.3	0.4	0.5	0.8	1.2	2.1	3.1	86	0.3	0.8	2.2	4.7	8.1	11.2	15.6	19.1	A	0.3	0.8	2.2	4.7	8.1	11.2	15.6	19.1
37	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2	87	0.3	0.8	2.1	4.8	8.4	11.8	16.2	19.9	T	0.3	0.8	2.1	4.8	8.4	11.8	16.2	19.9
38	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.3	88	0.3	0.8	2.1	4.9	8.7	12.3	16.9	20.7	E	0.3	0.8	2.1	4.9	8.7	12.3	16.9	20.7
39	0.3	0.3	0.5	0.6	0.9	1.3	2.3	3.4	89	0.3	0.8	2.1	5.0	8.9	12.9	17.7	21.6	M	0.3	0.8	2.1	5.0	8.9	12.9	17.7	21.6
40	0.3	0.4	0.5	0.7	0.9	1.4	2.4	3.5	90	0.3	0.7	2.0	5.0	9.2	13.5	18.5	22.5	P	0.3	0.7	2.0	5.0	9.2	13.5	18.5	22.5
41	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	91	0.3	0.7	2.0	5.1	9.4	14.1	19.3	23.5	R	0.3	0.7	2.0	5.1	9.4	14.1	19.3	23.5
42	0.3	0.4	0.5	0.7	1.0	1.5	2.6	3.7	92	0.3	0.7	2.0	5.1	9.7	14.7	20.1	24.5	A	0.3	0.7	2.0	5.1	9.7	14.7	20.1	24.5
43	0.3	0.4	0.5	0.8	1.1	1.6	2.7	3.9	93	0.2	0.7	2.0	5.1	9.4	15.4	21.0	25.5	T	0.2	0.7	2.0	5.1	9.4	15.4	21.0	25.5
44	0.3	0.4	0.6	0.8	1.1	1.7	2.8	4.0	94	0.2	0.7	1.9	5.1	10.1	16.0	22.0	26.6	E	0.2	0.7	1.9	5.1	10.1	16.0	22.0	26.6
45	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1	95	0.2	0.7	1.9	5.0	10.3	16.6	23.0	27.7	M	0.2	0.7	1.9	5.0	10.3	16.6	23.0	27.7
46	0.3	0.5	0.7	0.9	1.3	1.8	3.0	4.2	96	0.2	0.7	1.9	5.0	10.5	17.3	24.0	28.9	P	0.2	0.7	1.9	5.0	10.5	17.3	24.0	28.9
47	0.4	0.5	0.7	0.9	1.3	1.9	3.1	4.4	97	0.2	0.6	1.8	5.0	10.7	18.0	25.1	30.2	R	0.2	0.6	1.8	5.0	10.7	18.0	25.1	30.2
48	0.4	0.5	0.7	1.0	1.4	2.0	3.2	4.5	98	0.2	0.6	1.8	4.9	10.8	18.7	26.2	31.5	A	0.2	0.6	1.8	4.9	10.8	18.7	26.2	31.5
49	0.4	0.6	0.8	1.0	1.5	2.1	3.4	4.7	99	0.2	0.6	1.8	4.8	11.0	19.3	27.4	32.9	T	0.2	0.6	1.8	4.8	11.0	19.3	27.4	32.9
50	0.4	0.6	0.8	1.1	1.5	2.2	3.5	4.9	100	0.2	0.6	1.7	4.7	11.1	19.9	28.6	34.3	E	0.2	0.6	1.7	4.7	11.1	19.9	28.6	34.3

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 3 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000		
1	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	51	0.4
2	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	52	0.4
3	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	53	0.4
4	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.8	54	0.4
5	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8	55	0.4
6	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8	56	0.3
7	0.1	0.1	0.1	0.2	0.3	0.4	1.0	1.9	57	0.3
8	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	58	0.3
9	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0	59	0.3
10	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0	60	0.3
11	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1	61	0.3
12	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1	62	0.3
13	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1	63	0.3
14	0.1	0.1	0.1	0.2	0.3	0.6	1.3	2.2	64	0.3
15	0.1	0.1	0.1	0.2	0.3	0.6	1.3	2.2	65	0.3
16	0.1	0.1	0.1	0.2	0.3	0.7	1.3	2.2	66	0.3
17	0.1	0.1	0.1	0.2	0.3	0.7	1.4	2.3	67	0.3
18	0.1	0.1	0.1	0.2	0.3	0.8	1.5	2.4	68	0.3
19	0.1	0.1	0.2	0.3	0.5	0.8	1.5	2.5	69	0.3
20	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5	70	0.3
21	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.6	71	0.3
22	0.1	0.2	0.3	0.4	0.6	0.9	1.7	2.7	72	0.3
23	0.2	0.2	0.3	0.4	0.6	0.9	1.8	2.8	73	0.2
24	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8	74	0.2
25	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8	75	0.2
26	0.2	0.3	0.3	0.5	0.7	1.1	1.9	2.9	76	0.2
27	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0	77	0.2
28	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.1	78	0.2
29	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2	79	0.2
30	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.3	80	0.2
31	0.3	0.3	0.5	0.6	0.9	1.3	2.3	3.4	81	0.2
32	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.5	82	0.2
33	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	83	0.2
34	0.3	0.4	0.5	0.7	1.0	1.6	2.6	3.7	84	0.2
35	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.9	85	0.2
36	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0	86	0.2
37	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1	87	0.2
38	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.3	88	0.2
39	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4	89	0.2
40	0.4	0.6	0.8	1.0	1.4	2.1	3.3	4.6	90	0.2
41	0.4	0.6	0.8	1.1	1.5	2.2	3.4	4.9	91	0.2
42	0.4	0.6	0.9	1.2	1.6	2.3	3.6	4.9	92	0.2
43	0.4	0.6	0.9	1.2	1.7	2.4	3.7	5.1	93	0.2
44	0.4	0.7	0.9	1.3	1.7	2.5	3.9	5.3	94	0.2
45	0.4	0.7	1.0	1.3	1.8	2.6	4.1	5.5	95	0.2
46	0.4	0.7	1.1	1.4	1.9	2.8	4.2	5.7	96	0.2
47	0.4	0.7	1.1	1.5	2.0	2.9	4.4	6.0	97	0.2
48	0.4	0.8	1.2	1.6	2.1	3.0	4.6	6.2	98	0.2
49	0.4	0.8	1.2	1.7	2.3	3.2	4.8	6.4	99	0.2
50	0.4	0.8	1.3	1.7	2.4	3.3	5.0	6.7	100	0.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 4 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ				
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8			51	0.3	0.8	1.6	2.5	3.4	4.7	6.9	8.9	
2	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.8			52	0.3	0.8	1.6	2.7	3.6	5.0	7.2	9.3	
3	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9			53	0.3	0.8	1.7	2.9	3.8	5.2	7.6	9.7	
4	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9			54	0.3	0.8	1.7	2.9	4.0	5.5	7.9	10.1	
5	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9			55	0.3	0.7	1.7	3.0	4.2	5.8	8.3	10.5	
6	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0			56	0.3	0.7	1.7	3.1	4.3	6.1	8.7	11.0	
7	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.0			57	0.3	0.7	1.8	3.2	4.7	6.4	9.1	11.4	
8	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1			58	0.3	0.7	1.8	3.3	4.9	6.7	9.5	11.9	
9	0.1	0.1	0.1	0.2	0.3	0.6	1.3	2.1			59	0.3	0.7	1.8	3.4	5.2	7.0	9.9	12.5	
10	0.1	0.1	0.1	0.2	0.4	0.6	1.3	2.2			60	0.2	0.7	1.8	3.5	5.4	7.4	10.4	13.0	
11	0.1	0.1	0.1	0.2	0.4	0.7	1.3	2.2			61	0.2	0.7	1.8	3.5	5.7	7.7	10.9	13.6	
12	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			62	0.2	0.7	1.8	3.6	5.9	8.1	11.4	14.2	
13	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			63	0.2	0.6	1.7	3.7	6.2	8.5	11.9	14.8	
14	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			64	0.2	0.6	1.7	3.7	6.4	8.9	12.4	15.4	
15	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			65	0.2	0.6	1.7	3.8	6.7	9.4	13.0	16.1	
16	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			66	0.2	0.6	1.7	3.9	6.9	9.9	13.6	16.8	
17	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			67	0.2	0.6	1.6	3.9	7.1	10.4	14.3	17.6	
18	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			68	0.2	0.6	1.6	4.0	7.3	10.9	14.9	18.3	
19	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			69	0.2	0.6	1.6	4.0	7.5	11.4	15.6	19.1	
20	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			70	0.2	0.6	1.5	4.0	7.7	11.9	16.4	20.0	
21	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			71	0.2	0.5	1.5	4.0	8.0	12.9	17.9	21.8	
22	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			72	0.2	0.5	1.5	3.9	8.2	13.5	18.8	22.8	
23	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			73	0.2	0.5	1.5	3.9	8.3	14.1	19.7	23.8	
24	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			74	0.2	0.5	1.4	3.8	8.5	14.6	20.6	24.9	
25	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			75	0.2	0.5	1.4	3.7	8.7	15.6	22.6	27.2	
26	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			76	0.2	0.5	1.4	3.7	8.9	16.5	24.8	29.7	
27	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			77	0.2	0.5	1.4	3.7	9.0	17.0	25.9	31.1	
28	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			78	0.2	0.5	1.3	3.6	9.1	17.4	27.0	32.5	
29	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			79	0.2	0.5	1.3	3.5	9.1	17.8	28.1	33.9	
30	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			80	0.2	0.4	1.3	3.4	9.0	18.1	29.3	35.5	
31	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			81	0.1	0.4	1.2	3.4	9.0	18.5	30.5	37.1	
32	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			82	0.1	0.4	1.2	3.3	8.8	18.8	31.7	38.8	
33	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			83	0.1	0.4	1.2	3.2	8.6	19.1	33.0	40.6	
34	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			84	0.1	0.4	1.1	3.2	8.5	19.4	34.1	42.3	
35	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			85	0.1	0.4	1.1	3.1	8.4	19.7	35.2	44.0	
36	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			86	0.1	0.4	1.1	3.0	8.3	19.9	36.3	45.8	
37	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			87	0.1	0.4	1.0	3.0	8.1	20.2	37.3	47.7	
38	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			88	0.1	0.3	1.0	2.9	8.0	20.4	38.3	49.5	
39	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			89	0.1	0.3	1.0	2.9	7.9	20.5	39.2	51.5	
40	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			90	0.1	0.3	1.0	2.8	7.8	20.6	40.1	53.3	
41	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			91	0.1	0.3	0.9	2.8	7.7	20.6	41.0	55.1	
42	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			92	0.1	0.3	0.9	2.7	7.6	20.5	41.7	56.8	
43	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			93	0.1	0.3	0.9	2.7	7.5	20.3	42.4	58.4	
44	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			94	0.1	0.3	0.9	2.6	7.4	19.9	43.2	60.0	
45	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			95	0.1	0.3	0.9	2.5	7.3	19.6	44.5	61.5	
46	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			96	0.1	0.3	0.9	2.5	7.3	19.6	44.5	61.5	
47	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			97	0.1	0.3	0.9	2.5	7.3	19.6	44.5	61.5	
48	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			98	0.1	0.3	0.9	2.5	7.3	19.6	44.5	61.5	
49	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			99	0.1	0.3	0.9	2.5	7.3	19.6	44.5	61.5	
50	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3			100	0.1	0.3	0.9	2.5	7.3	19.6	44.5	61.5	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 5 PERCENT RELATIVE HUMIDITY

	63	125	250	500	1000	2000	4000	8000
1	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
2	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
3	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0
4	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
5	0.1	0.1	0.2	0.2	0.4	0.6	1.2	2.1
6	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
7	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
8	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
9	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3
10	0.1	0.2	0.3	0.3	0.5	0.8	1.5	2.4
11	0.1	0.2	0.3	0.3	0.5	0.8	1.5	2.5
12	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
13	0.2	0.2	0.3	0.4	0.5	0.9	1.6	2.6
14	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
15	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
16	0.2	0.2	0.3	0.5	0.7	1.1	1.8	2.9
17	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
18	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
19	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
20	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
21	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3
22	0.3	0.4	0.5	0.7	0.9	1.4	2.3	3.5
23	0.3	0.4	0.5	0.7	1.0	1.5	2.4	3.6
24	0.3	0.4	0.5	0.7	1.0	1.5	2.6	3.6
25	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8
26	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0
27	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1
28	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.3
29	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4
30	0.3	0.6	0.8	1.0	1.4	2.1	3.3	4.6
31	0.3	0.6	0.8	1.1	1.5	2.2	3.5	4.8
32	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0
33	0.3	0.6	0.9	1.2	1.7	2.4	3.8	5.2
34	0.3	0.6	1.0	1.3	1.8	2.6	4.0	5.4
35	0.3	0.7	1.0	1.4	1.9	2.7	4.1	5.6
36	0.3	0.7	1.1	1.5	2.0	2.8	4.3	5.8
37	0.3	0.7	1.1	1.6	2.1	3.0	4.5	6.1
38	0.3	0.7	1.2	1.6	2.2	3.1	4.7	6.3
39	0.3	0.7	1.2	1.7	2.4	3.3	5.0	6.6
40	0.3	0.7	1.3	1.8	2.5	3.5	5.2	6.9
41	0.3	0.7	1.3	1.9	2.6	3.7	5.4	7.2
42	0.3	0.7	1.4	2.1	2.8	3.9	5.7	7.5
43	0.3	0.8	1.4	2.2	2.9	4.1	6.0	7.8
44	0.3	0.8	1.5	2.3	3.1	4.3	6.3	8.1
45	0.3	0.7	1.5	2.4	3.3	4.5	6.5	8.5
46	0.3	0.7	1.5	2.5	3.4	4.7	6.9	8.8
47	0.3	0.7	1.6	2.6	3.6	5.0	7.2	9.2
48	0.3	0.7	1.6	2.7	3.8	5.2	7.5	9.6
49	0.3	0.7	1.6	2.8	4.0	5.5	7.9	10.0
50	0.3	0.7	1.6	2.9	4.2	5.8	8.3	10.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB REF 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 6 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.0			51	0.2	0.6	1.5	3.2	5.4	7.5	10.5	13.1	
2	0.1	0.1	0.2	0.2	0.4	0.6	1.2	2.1			52	0.2	0.6	1.5	3.3	5.6	7.8	11.0	13.7	
3	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.1			53	0.2	0.5	1.5	3.3	5.7	8.3	11.5	14.3	
4	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2			54	0.2	0.5	1.4	3.4	6.1	8.7	12.1	14.9	
5	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3			55	0.2	0.5	1.4	3.4	6.3	9.2	12.7	15.6	
6	0.1	0.2	0.3	0.4	0.7	1.4	2.3				56	0.2	0.5	1.4	3.5	6.5	9.6	13.3	16.4	
7	0.1	0.2	0.3	0.5	0.8	1.5	2.4				57	0.2	0.5	1.4	3.5	6.6	10.1	13.9	17.1	
8	0.1	0.2	0.3	0.5	0.8	1.5	2.5				58	0.2	0.5	1.3	3.5	6.8	10.6	14.6	17.9	
9	0.1	0.2	0.3	0.5	0.8	1.6	2.5				59	0.2	0.5	1.3	3.5	6.9	11.1	15.3	18.7	
10	0.2	0.2	0.3	0.6	0.9	1.6	2.6				60	0.2	0.5	1.3	3.5	7.1	11.6	16.1	19.6	
11	0.2	0.2	0.3	0.6	0.9	1.7	2.7				61	0.2	0.4	1.3	3.4	7.2	12.1	16.9	20.5	
12	0.2	0.2	0.3	0.6	1.0	1.8	2.9				62	0.1	0.4	1.2	3.3	7.3	12.6	17.7	21.5	
13	0.2	0.2	0.3	0.6	1.0	1.9	2.9				63	0.1	0.4	1.2	3.3	7.5	13.1	18.6	22.5	
14	0.2	0.2	0.3	0.6	1.0	1.9	2.8				64	0.1	0.4	1.2	3.2	7.6	13.5	19.5	23.6	
15	0.2	0.3	0.4	0.7	1.1	2.0	3.0				65	0.1	0.4	1.2	3.2	7.7	13.9	20.5	24.7	
16	0.2	0.3	0.4	0.7	1.1	2.0	3.1				66	0.1	0.4	1.1	3.1	7.8	14.4	21.5	25.8	
17	0.2	0.3	0.4	0.7	1.1	2.0	3.2				67	0.1	0.4	1.1	3.1	7.9	14.8	22.5	27.1	
18	0.2	0.3	0.4	0.7	1.1	2.0	3.3				68	0.1	0.4	1.1	3.0	7.9	15.1	23.5	28.3	
19	0.2	0.3	0.4	0.7	1.1	2.0	3.4				69	0.1	0.4	1.1	3.0	7.9	15.5	24.5	29.7	
20	0.3	0.4	0.5	0.7	1.0	1.5	3.6				70	0.1	0.4	1.0	2.9	7.8	15.8	25.6	31.1	
21	0.3	0.4	0.5	0.7	1.0	1.5	3.7				71	0.1	0.3	1.0	2.8	7.8	16.1	26.7	32.6	
22	0.3	0.4	0.5	0.7	1.0	1.5	3.8				72	0.1	0.3	1.0	2.8	7.6	16.4	27.8	34.1	
23	0.3	0.4	0.5	0.7	1.0	1.5	3.9				73	0.1	0.3	1.0	2.8	7.5	16.6	28.9	35.7	
24	0.3	0.4	0.5	0.7	1.0	1.5	4.0				74	0.1	0.3	0.9	2.7	7.3	16.9	29.9	37.2	
25	0.3	0.4	0.5	0.7	1.0	1.5	4.1				75	0.1	0.3	0.9	2.7	7.2	17.1	30.9	38.8	
26	0.3	0.4	0.5	0.7	1.0	1.5	4.2				76	0.1	0.3	0.9	2.6	7.1	17.4	31.8	40.4	
27	0.3	0.4	0.5	0.7	1.0	1.5	4.3				77	0.1	0.3	0.9	2.6	7.0	17.6	32.7	42.1	
28	0.3	0.4	0.5	0.7	1.0	1.5	4.4				78	0.1	0.3	0.9	2.5	6.9	17.7	33.6	43.8	
29	0.3	0.4	0.5	0.7	1.0	1.5	4.5				79	0.1	0.3	0.8	2.5	6.8	17.8	34.4	45.5	
30	0.3	0.4	0.5	0.7	1.0	1.5	4.6				80	0.1	0.3	0.8	2.4	6.7	17.8	35.1	47.1	
31	0.3	0.4	0.5	0.7	1.0	1.5	4.7				81	0.1	0.3	0.8	2.4	6.6	17.8	35.8	48.6	
32	0.3	0.4	0.5	0.7	1.0	1.5	4.8				82	0.1	0.3	0.8	2.3	6.5	17.6	36.5	50.1	
33	0.3	0.4	0.5	0.7	1.0	1.5	4.9				83	0.1	0.3	0.8	2.3	6.4	17.4	37.1	51.5	
34	0.3	0.4	0.5	0.7	1.0	1.5	5.0				84	0.1	0.3	0.8	2.2	6.3	17.0	37.7	52.8	
35	0.3	0.4	0.5	0.7	1.0	1.5	5.1				85	0.1	0.3	0.7	2.2	6.2	16.7	38.3	54.1	
36	0.3	0.4	0.5	0.7	1.0	1.5	5.2				86	0.1	0.3	0.7	2.1	6.1	16.5	38.9	55.3	
37	0.3	0.4	0.5	0.7	1.0	1.5	5.3				87	0.1	0.3	0.7	2.1	6.0	16.3	39.4	56.5	
38	0.3	0.4	0.5	0.7	1.0	1.5	5.4				88	0.1	0.3	0.7	2.0	5.9	16.0	39.8	57.5	
39	0.3	0.4	0.5	0.7	1.0	1.5	5.5				89	0.1	0.3	0.7	2.0	5.7	15.8	40.3	58.5	
40	0.3	0.4	0.5	0.7	1.0	1.5	5.6				90	0.1	0.3	0.7	1.9	5.6	15.6	40.6	59.5	
41	0.3	0.4	0.5	0.7	1.0	1.5	5.7				91	0.1	0.3	0.7	1.9	5.5	15.5	40.7	60.4	
42	0.3	0.4	0.5	0.7	1.0	1.5	5.8				92	0.1	0.3	0.6	1.9	5.4	15.3	40.7	61.3	
43	0.3	0.4	0.5	0.7	1.0	1.5	5.9				93	0.1	0.3	0.6	1.8	5.3	15.0	40.5	62.1	
44	0.2	0.6	1.5	2.7	3.8	5.2	7.5				94	0.1	0.3	0.6	1.7	5.2	14.8	40.1	62.9	
45	0.2	0.6	1.5	2.8	4.0	5.5	7.9				95	0.1	0.3	0.6	1.7	5.1	14.6	39.4	63.6	
46	0.2	0.6	1.5	2.9	4.2	5.8	8.2				96	0.1	0.3	0.6	1.7	5.0	14.3	39.7	64.2	
47	0.2	0.6	1.6	3.0	4.5	6.1	8.6				97	0.1	0.3	0.6	1.7	4.9	14.1	38.1	64.6	
48	0.2	0.6	1.6	3.0	4.5	6.1	8.6				98	0.1	0.3	0.6	1.6	4.8	13.8	37.6	64.7	
49	0.2	0.6	1.6	3.0	4.5	6.1	8.6				99	0.1	0.3	0.6	1.6	4.7	13.6	37.1	64.5	
50	0.2	0.6	1.6	3.2	5.2	7.1	10.0				100	0.1	0.3	0.6	1.6	4.6	13.3	36.6	64.1	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE °F AND 7 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ										
	63	125	250	500	1000	2000	4000	8000	16000	32000	64000	128000					
1	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2	51	0.2	0.5	1.3	1.3	6.0	8.9	12.3	15.2
2	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2	52	0.2	0.5	1.3	1.3	6.2	9.4	12.9	16.0
3	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3	53	0.2	0.5	1.3	3.3	6.4	9.8	13.6	16.7
4	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4	54	0.2	0.5	1.3	3.3	6.6	10.3	14.3	17.4
5	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4	55	0.2	0.4	1.2	3.3	6.7	10.8	15.0	18.3
6	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5	56	0.1	0.4	1.2	3.2	6.9	11.3	15.7	19.2
7	0.1	0.2	0.3	0.4	0.6	0.9	1.6	2.6	57	0.1	0.4	1.2	3.2	6.9	11.8	16.5	20.1
8	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6	58	0.1	0.4	1.2	3.1	7.1	12.3	17.4	21.1
9	0.2	0.2	0.3	0.5	0.6	1.0	1.8	2.7	59	0.1	0.4	1.1	3.1	7.2	12.7	18.2	22.1
10	0.2	0.2	0.3	0.5	0.7	1.1	1.9	2.8	60	0.1	0.4	1.1	3.0	7.3	13.1	19.2	23.1
11	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9	61	0.1	0.4	1.1	3.0	7.4	13.5	20.1	24.3
12	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1	62	0.1	0.4	1.1	2.9	7.5	14.3	21.1	25.4
13	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1	63	0.1	0.4	1.0	2.9	7.5	14.6	22.1	26.6
14	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.2	64	0.1	0.4	1.0	2.8	7.5	14.9	23.1	27.9
15	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3	65	0.1	0.3	1.0	2.7	7.4	15.2	24.1	29.3
16	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.4	66	0.1	0.3	1.0	2.7	7.3	15.5	24.2	30.7
17	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	67	0.1	0.3	0.9	2.6	7.0	16.0	25.3	31.7
18	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.7	68	0.1	0.3	0.9	2.6	7.0	16.2	25.2	32.7
19	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8	69	0.1	0.3	0.9	2.5	6.9	16.4	25.1	33.7
20	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.0	70	0.1	0.3	0.9	2.5	6.8	16.6	25.0	34.7
21	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.2	71	0.1	0.3	0.8	2.4	6.7	16.8	24.9	35.7
22	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3	72	0.1	0.3	0.8	2.4	6.7	16.8	24.9	36.7
23	0.3	0.5	0.8	1.0	1.4	2.0	3.2	4.5	73	0.1	0.3	0.8	2.3	6.6	16.9	24.8	37.7
24	0.3	0.6	0.8	1.1	1.5	2.1	3.4	4.7	74	0.1	0.3	0.8	2.3	6.5	16.9	24.7	38.7
25	0.3	0.6	0.9	1.1	1.6	2.2	3.5	4.9	75	0.1	0.3	0.8	2.2	6.4	17.1	24.6	39.7
26	0.3	0.6	0.9	1.2	1.7	2.3	3.7	5.1	76	0.1	0.3	0.8	2.2	6.3	17.3	24.5	40.7
27	0.3	0.6	1.0	1.3	1.8	2.4	3.9	5.3	77	0.1	0.3	0.7	2.2	6.2	17.5	24.4	41.7
28	0.3	0.6	1.0	1.4	1.9	2.5	4.1	5.5	78	0.1	0.3	0.7	2.1	6.1	17.7	24.3	42.7
29	0.3	0.6	1.1	1.5	2.0	2.6	4.3	5.7	79	0.1	0.3	0.7	2.1	6.0	17.9	24.2	43.7
30	0.3	0.6	1.1	1.5	2.1	2.7	4.5	6.0	80	0.1	0.3	0.7	2.0	5.9	18.1	24.1	44.7
31	0.3	0.7	1.2	1.6	2.2	3.1	4.7	6.2	81	0.1	0.3	0.7	2.0	5.8	18.3	24.0	45.7
32	0.3	0.7	1.2	1.7	2.3	3.3	4.9	6.4	82	0.1	0.3	0.6	2.0	5.7	18.5	23.9	46.7
33	0.3	0.7	1.2	1.8	2.4	3.5	5.2	6.6	83	0.1	0.3	0.6	1.9	5.6	18.7	23.8	47.7
34	0.3	0.7	1.2	1.9	2.5	3.6	5.4	7.1	84	0.1	0.2	0.6	1.8	5.5	18.9	23.7	48.7
35	0.3	0.7	1.3	2.0	2.6	3.8	5.7	7.4	85	0.1	0.2	0.6	1.8	5.4	19.1	23.6	49.7
36	0.3	0.7	1.4	2.2	2.9	4.0	6.0	7.7	86	0.1	0.2	0.6	1.8	5.3	19.3	23.5	50.7
37	0.3	0.7	1.4	2.3	3.1	4.3	6.2	8.1	87	0.1	0.2	0.6	1.8	5.2	19.5	23.4	51.7
38	0.2	0.7	1.4	2.4	3.3	4.5	6.6	8.5	88	0.1	0.2	0.6	1.7	5.1	19.7	23.3	52.7
39	0.2	0.7	1.4	2.5	3.5	4.7	6.9	8.8	89	0.1	0.2	0.6	1.7	5.0	19.9	23.2	53.7
40	0.2	0.6	1.5	2.6	3.7	5.0	7.2	9.2	90	0.1	0.2	0.6	1.6	4.9	20.1	23.1	54.7
41	0.2	0.6	1.5	2.7	3.9	5.3	7.6	9.7	91	0.1	0.2	0.6	1.6	4.8	20.3	23.0	55.7
42	0.2	0.6	1.5	2.8	4.1	5.6	8.0	10.1	92	0.1	0.2	0.6	1.5	4.7	20.5	22.9	56.7
43	0.2	0.6	1.5	2.8	4.3	5.9	8.4	10.6	93	0.1	0.2	0.6	1.5	4.6	20.7	22.8	57.7
44	0.2	0.6	1.5	2.9	4.5	6.2	8.8	11.1	94	0.1	0.2	0.6	1.5	4.5	20.9	22.7	58.7
45	0.2	0.6	1.5	3.0	4.8	6.5	9.2	11.6	95	0.1	0.2	0.6	1.4	4.4	21.1	22.6	59.7
46	0.2	0.6	1.5	3.0	5.0	6.9	9.7	12.1	96	0.1	0.2	0.6	1.4	4.3	21.3	22.5	60.7
47	0.2	0.5	1.4	3.1	5.2	7.2	10.1	12.7	97	0.1	0.2	0.6	1.4	4.2	21.5	22.4	61.7
48	0.2	0.5	1.4	3.2	5.4	7.6	10.7	13.3	98	0.1	0.2	0.6	1.4	4.1	21.7	22.3	62.7
49	0.2	0.5	1.4	3.2	5.7	8.0	11.2	13.9	99	0.1	0.2	0.6	1.4	4.0	21.9	22.2	63.7
50	0.2	0.5	1.4	3.3	5.9	8.5	11.7	14.6	100	0.1	0.2	0.6	1.4	3.9	22.1	22.1	64.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB REF 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					PERCENT RELATIVE HUMIDITY					TEMPERATURE, °F				
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000
1	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3	51	0.1	0.4	1.2	3.2	6.4	10.3
2	0.1	0.2	0.2	0.3	0.5	0.7	1.4	2.4	52	0.1	0.4	1.2	3.2	6.5	10.7
3	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4	53	0.1	0.4	1.1	3.1	6.6	11.2
4	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5	54	0.1	0.4	1.1	3.0	6.6	11.7
5	0.2	0.2	0.3	0.4	0.6	0.9	1.6	2.6	55	0.1	0.4	1.1	3.0	6.6	12.1
6	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7	56	0.1	0.4	1.1	2.9	7.0	12.6
7	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8	57	0.1	0.4	1.0	2.8	7.0	13.0
8	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.9	58	0.1	0.4	1.0	2.8	7.1	13.3
9	0.2	0.2	0.3	0.5	0.7	1.1	1.9	3.0	59	0.1	0.3	1.0	2.7	7.2	13.7
10	0.2	0.2	0.3	0.5	0.8	1.1	2.0	3.1	60	0.1	0.3	1.0	2.7	7.2	14.0
11	0.2	0.2	0.3	0.5	0.8	1.2	2.1	3.1	61	0.1	0.3	1.0	2.7	7.1	14.3
12	0.2	0.2	0.3	0.5	0.8	1.3	2.2	3.2	62	0.1	0.3	0.9	2.6	7.1	14.6
13	0.2	0.2	0.3	0.5	0.9	1.3	2.3	3.4	63	0.1	0.3	0.9	2.6	6.9	14.9
14	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.5	64	0.1	0.3	0.9	2.5	6.8	15.3
15	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	65	0.1	0.3	0.8	2.4	6.7	15.7
16	0.3	0.4	0.5	0.7	1.0	1.6	2.6	3.8	66	0.1	0.3	0.8	2.4	6.6	16.1
17	0.3	0.4	0.5	0.7	1.1	1.7	2.7	3.9	67	0.1	0.3	0.8	2.3	6.5	16.5
18	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1	68	0.1	0.3	0.8	2.3	6.3	16.9
19	0.3	0.5	0.6	0.9	1.3	1.9	3.0	4.2	69	0.1	0.3	0.8	2.3	6.3	17.3
20	0.3	0.5	0.6	0.9	1.4	2.0	3.1	4.4	70	0.1	0.3	0.7	2.2	6.2	17.7
21	0.3	0.5	0.6	0.9	1.4	2.1	3.2	4.6	71	0.1	0.3	0.7	2.2	6.1	18.1
22	0.3	0.5	0.6	0.9	1.5	2.2	3.4	4.8	72	0.1	0.2	0.7	2.1	6.0	18.5
23	0.3	0.5	0.6	0.9	1.6	2.3	3.6	5.0	73	0.1	0.2	0.7	2.1	5.9	18.9
24	0.3	0.5	0.6	0.9	1.7	2.4	3.8	5.2	74	0.1	0.2	0.7	2.0	5.8	19.3
25	0.3	0.5	0.6	0.9	1.8	2.6	4.0	5.4	75	0.1	0.2	0.7	2.0	5.7	19.7
26	0.3	0.5	0.6	0.9	1.9	2.7	4.2	5.6	76	0.1	0.2	0.7	1.9	5.6	20.1
27	0.3	0.5	0.6	0.9	2.0	2.9	4.4	5.9	77	0.1	0.2	0.6	1.9	5.5	20.5
28	0.3	0.5	0.6	0.9	2.1	3.0	4.6	6.1	78	0.1	0.2	0.6	1.8	5.3	20.9
29	0.3	0.5	0.6	0.9	2.2	3.2	4.8	6.4	79	0.1	0.2	0.6	1.8	5.2	21.3
30	0.3	0.5	0.6	0.9	2.3	3.4	5.1	6.7	80	0.1	0.2	0.6	1.7	5.1	21.7
31	0.3	0.5	0.6	0.9	2.4	3.6	5.3	7.0	81	0.1	0.2	0.6	1.7	5.0	22.1
32	0.3	0.5	0.6	0.9	2.5	3.8	5.6	7.3	82	0.1	0.2	0.6	1.7	4.9	22.5
33	0.3	0.5	0.6	0.9	2.6	4.0	5.9	7.6	83	0.1	0.2	0.6	1.7	4.8	22.9
34	0.3	0.5	0.6	0.9	2.7	4.2	6.2	8.0	84	0.1	0.2	0.6	1.6	4.7	23.3
35	0.3	0.5	0.6	0.9	2.8	4.4	6.5	8.3	85	0.1	0.2	0.6	1.6	4.6	23.7
36	0.3	0.5	0.6	0.9	2.9	4.6	6.8	8.7	86	0.1	0.2	0.6	1.5	4.5	24.1
37	0.3	0.5	0.6	0.9	3.0	4.8	7.1	9.1	87	0.1	0.2	0.5	1.5	4.4	24.5
38	0.3	0.5	0.6	0.9	3.1	5.0	7.4	9.6	88	0.1	0.2	0.5	1.4	4.3	24.9
39	0.3	0.5	0.6	0.9	3.2	5.2	7.7	10.0	89	0.1	0.2	0.5	1.4	4.2	25.3
40	0.3	0.5	0.6	0.9	3.3	5.4	8.0	10.5	90	0.1	0.2	0.5	1.4	4.1	25.7
41	0.3	0.5	0.6	0.9	3.4	5.6	8.3	11.0	91	0.1	0.2	0.5	1.4	4.0	26.1
42	0.3	0.5	0.6	0.9	3.5	5.8	8.6	11.5	92	0.1	0.2	0.5	1.3	3.9	26.5
43	0.3	0.5	0.6	0.9	3.6	6.0	8.9	12.0	93	0.1	0.2	0.5	1.3	3.8	26.9
44	0.3	0.5	0.6	0.9	3.7	6.2	9.2	12.6	94	0.1	0.2	0.5	1.3	3.7	27.3
45	0.3	0.5	0.6	0.9	3.8	6.4	9.5	13.2	95	0.1	0.2	0.5	1.3	3.6	27.7
46	0.3	0.5	0.6	0.9	3.9	6.6	9.8	13.8	96	0.1	0.2	0.5	1.3	3.5	28.1
47	0.3	0.5	0.6	0.9	4.0	6.8	10.1	14.5	97	0.1	0.2	0.5	1.3	3.4	28.5
48	0.3	0.5	0.6	0.9	4.1	7.0	10.4	15.2	98	0.1	0.2	0.5	1.2	3.3	28.9
49	0.3	0.5	0.6	0.9	4.2	7.2	10.7	15.9	99	0.1	0.2	0.5	1.2	3.2	29.3
50	0.3	0.5	0.6	0.9	4.3	7.4	11.0	16.7	100	0.1	0.2	0.5	1.2	3.1	29.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 9 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4	51	0.1	0.4	1.1	2.9	6.6	11.4	16.3	19.8	
2	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5	52	0.1	0.4	1.0	2.8	6.7	11.9	17.1	20.8	
3	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6	53	0.1	0.4	1.0	2.8	6.7	12.3	18.0	21.8	
4	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7	54	0.1	0.3	1.0	2.7	6.8	12.6	19.0	22.9	
5	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7	55	0.1	0.3	1.0	2.7	6.9	13.0	19.9	24.0	
6	0.2	0.2	0.3	0.5	0.7	1.1	1.9	2.9	56	0.1	0.3	1.0	2.6	6.9	13.3	20.9	25.2	
7	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9	57	0.1	0.3	0.9	2.6	6.9	13.6	21.8	26.5	
8	0.2	0.3	0.4	0.5	0.8	1.1	2.0	3.0	58	0.1	0.3	0.9	2.6	6.9	13.9	22.8	27.8	
9	0.2	0.3	0.4	0.6	0.9	1.2	2.1	3.1	59	0.1	0.3	0.9	2.5	6.8	14.2	23.8	29.2	
10	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.2	60	0.1	0.3	0.9	2.5	6.6	14.4	24.6	30.6	
11	0.2	0.4	0.5	0.6	0.9	1.3	2.3	3.4	61	0.1	0.3	0.8	2.4	6.5	14.7	25.8	32.1	
12	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.5	62	0.1	0.3	0.8	2.4	6.4	14.9	26.7	33.5	
13	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	63	0.1	0.3	0.8	2.3	6.2	15.1	27.5	34.9	
14	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.8	64	0.1	0.3	0.8	2.3	6.1	15.3	28.4	36.4	
15	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9	65	0.1	0.3	0.8	2.2	6.0	15.4	29.1	38.0	
16	0.3	0.5	0.7	0.9	1.2	1.8	2.9	4.1	66	0.1	0.3	0.7	2.1	6.0	15.5	29.9	39.6	
17	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2	67	0.1	0.2	0.7	2.1	5.9	15.5	30.6	41.0	
18	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4	68	0.1	0.2	0.7	2.1	5.9	15.5	31.2	42.4	
19	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6	69	0.1	0.2	0.7	2.0	5.7	15.3	31.8	43.7	
20	0.3	0.6	0.8	1.1	1.5	2.2	3.5	4.8	70	0.1	0.2	0.7	2.0	5.6	15.1	32.4	44.9	
21	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0	71	0.1	0.2	0.6	1.9	5.5	14.8	32.9	46.2	
22	0.3	0.6	0.9	1.3	1.7	2.5	3.8	5.2	72	0.1	0.2	0.6	1.9	5.4	14.4	33.4	47.3	
23	0.3	0.6	1.0	1.4	1.8	2.6	4.0	5.4	73	0.1	0.2	0.6	1.8	5.3	14.3	33.9	48.4	
24	0.3	0.6	1.0	1.4	2.0	2.8	4.2	5.5	74	0.1	0.2	0.6	1.8	5.2	14.1	34.3	49.4	
25	0.3	0.6	1.1	1.5	2.1	2.9	4.4	5.9	75	0.1	0.2	0.6	1.7	5.1	13.8	34.7	50.2	
26	0.3	0.6	1.1	1.6	2.2	3.1	4.6	6.2	76	0.1	0.2	0.6	1.7	4.9	13.7	35.1	51.1	
27	0.3	0.6	1.2	1.7	2.3	3.3	4.9	6.5	77	0.1	0.2	0.6	1.7	4.9	13.5	35.3	52.0	
28	0.3	0.6	1.2	1.8	2.5	3.4	5.1	6.8	78	0.1	0.2	0.6	1.6	4.7	13.3	35.2	52.8	
29	0.2	0.6	1.2	1.9	2.6	3.6	5.4	7.1	79	0.1	0.2	0.6	1.6	4.7	13.1	35.2	53.5	
30	0.2	0.6	1.3	2.0	2.8	3.8	5.7	7.4	80	0.1	0.2	0.5	1.6	4.6	12.9	34.9	54.2	
31	0.2	0.6	1.3	2.1	2.9	4.1	6.0	7.7	81	0.1	0.2	0.5	1.5	4.5	12.7	34.6	54.9	
32	0.2	0.6	1.3	2.3	3.1	4.3	6.3	8.1	82	0.1	0.2	0.5	1.5	4.4	12.5	33.7	55.5	
33	0.2	0.6	1.4	2.4	3.3	4.5	6.6	8.5	83	0.1	0.2	0.5	1.4	4.3	12.2	33.2	55.8	
34	0.2	0.6	1.4	2.4	3.5	4.8	6.9	8.9	84	0.1	0.2	0.5	1.4	4.2	12.0	32.7	56.0	
35	0.2	0.6	1.4	2.5	3.7	5.1	7.3	9.3	85	0.1	0.2	0.5	1.4	4.1	11.8	32.2	55.9	
36	0.2	0.5	1.4	2.6	3.9	5.3	7.6	9.7	86	0.1	0.2	0.5	1.4	4.0	11.6	31.8	55.4	
37	0.2	0.5	1.4	2.7	4.1	5.6	8.0	10.2	87	0.1	0.2	0.5	1.3	3.9	11.3	31.3	55.0	
38	0.2	0.5	1.4	2.8	4.3	5.9	8.4	10.7	88	0.1	0.2	0.5	1.3	3.8	11.1	31.0	54.0	
39	0.2	0.5	1.4	2.8	4.6	6.3	8.9	11.2	89	0.1	0.2	0.5	1.3	3.8	10.9	30.6	53.0	
40	0.2	0.5	1.4	2.9	4.8	6.6	9.3	11.7	90	0.1	0.3	0.5	1.3	3.7	10.7	30.2	52.3	
41	0.2	0.5	1.3	3.0	5.0	7.0	9.8	12.3	91	0.1	0.3	0.5	1.2	3.6	10.5	29.8	51.5	
42	0.2	0.5	1.3	3.0	5.2	7.4	10.3	12.9	92	0.1	0.3	0.5	1.2	3.5	10.3	29.3	50.8	
43	0.2	0.5	1.3	3.0	5.4	7.8	10.9	13.5	93	0.1	0.3	0.5	1.2	3.4	10.1	28.9	50.2	
44	0.2	0.5	1.2	3.1	5.6	8.2	11.4	14.2	94	0.1	0.3	0.5	1.2	3.3	9.9	28.4	49.5	
45	0.2	0.4	1.2	3.1	5.8	8.7	12.0	14.9	95	0.1	0.3	0.5	1.2	3.3	9.6	27.9	49.0	
46	0.2	0.4	1.2	3.1	5.9	9.1	12.6	15.6	96	0.1	0.3	0.5	1.2	3.2	9.4	27.4	48.5	
47	0.1	0.4	1.2	3.1	6.1	9.6	13.3	16.2	97	0.1	0.3	0.5	1.2	3.1	9.2	26.9	47.8	
48	0.1	0.4	1.1	3.1	6.2	10.0	14.0	17.1	98	0.1	0.3	0.5	1.2	3.1	9.1	26.4	47.1	
49	0.1	0.4	1.1	3.0	6.3	10.5	14.7	18.0	99	0.1	0.3	0.6	1.2	3.0	8.9	25.9	46.4	
50	0.1	0.4	1.1	3.0	6.4	11.0	15.5	18.9	100	0.1	0.3	0.6	1.2	3.0	8.7	25.5	45.6	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT. FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE, ETC. 10 PERCENT RELATIVE HUMIDITY

	HARD CENTER FREQUENCY, MZ										HARD CENTER FREQUENCY, MZ									
	53	125	250	500	1000	2010	4000	9000	€3		125	250	500	1000	2000	4000	8000			
1	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.5	51	0.1	0.3	1.0	2.6	6.6	12.2	18.4	22.2			
2	0.2	0.3	0.4	0.5	0.7	1.0	1.7	2.6	52	0.1	0.3	0.9	2.6	6.7	12.6	19.3	23.3			
3	0.2	0.3	0.4	0.6	1.0	1.7	2.7	2.7	53	0.1	0.3	0.9	2.6	6.7	12.5	20.2	24.5			
4	0.2	0.3	0.5	0.7	1.0	1.8	2.8	2.8	54	0.1	0.3	0.9	2.5	6.7	13.2	21.2	25.7			
5	0.2	0.3	0.5	0.7	1.1	1.9	2.9	2.9	55	0.1	0.3	0.9	2.5	6.6	13.5	22.1	27.0			
6	0.2	0.3	0.5	0.7	1.1	2.0	3.0	3.0	56	0.1	0.3	0.9	2.4	6.5	13.7	23.1	28.4			
7	0.2	0.3	0.5	0.9	1.2	2.1	3.1	3.1	57	0.1	0.3	0.8	2.4	6.4	14.0	24.1	29.8			
8	0.2	0.3	0.4	0.6	1.2	2.2	3.2	3.2	58	0.1	0.3	0.8	2.3	6.2	14.2	25.0	31.2			
9	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3	59	0.1	0.3	0.8	2.3	6.1	14.4	25.9	32.6			
10	0.2	0.4	0.5	0.7	1.0	1.5	2.5	3.6	60	0.1	0.3	0.8	2.2	6.0	14.6	26.8	34.0			
11	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	61	0.1	0.3	0.7	2.2	5.9	14.8	27.6	35.5			
12	0.3	0.4	0.6	0.9	1.1	1.6	2.6	3.7	62	0.1	0.3	0.7	2.1	5.8	14.9	28.3	37.0			
13	0.3	0.4	0.6	0.9	1.1	1.7	2.7	3.9	63	0.1	0.2	0.7	2.1	5.7	15.0	29.0	38.5			
14	0.3	0.5	0.6	0.9	1.2	1.9	2.8	4.0	64	0.1	0.2	0.7	2.0	5.7	15.0	29.7	39.9			
15	0.3	0.5	0.7	1.0	1.3	1.9	3.0	4.2	65	0.1	0.2	0.7	2.0	5.6	14.9	30.3	41.3			
16	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4	66	0.1	0.2	0.7	1.9	5.5	14.8	30.8	42.5			
17	0.3	0.5	0.8	1.1	1.4	2.1	3.3	4.6	67	0.1	0.2	0.6	1.9	5.4	14.5	31.4	43.8			
18	0.3	0.5	0.8	1.1	1.5	2.2	3.5	4.8	68	0.1	0.2	0.6	1.8	5.3	14.2	31.9	44.9			
19	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0	69	0.1	0.2	0.6	1.7	5.0	13.7	32.8	47.0			
20	0.3	0.6	0.9	1.3	1.7	2.5	3.8	5.2	70	0.1	0.2	0.6	1.7	4.9	13.5	33.3	48.8			
21	0.3	0.6	1.0	1.4	1.8	2.6	4.0	5.4	71	0.1	0.2	0.6	1.7	4.8	13.3	33.6	48.8			
22	0.3	0.6	1.0	1.4	2.0	2.8	4.2	5.6	72	0.1	0.2	0.6	1.6	4.7	13.1	33.9	49.7			
23	0.3	0.6	1.1	1.5	2.1	2.9	4.4	5.9	73	0.1	0.2	0.5	1.6	4.6	12.9	34.0	50.5			
24	0.3	0.6	1.1	1.6	2.2	3.1	4.6	6.2	74	0.1	0.2	0.5	1.6	4.5	12.8	34.0	51.2			
25	0.2	0.6	1.2	1.7	2.3	3.3	4.9	6.5	75	0.1	0.2	0.5	1.5	4.4	12.6	33.9	51.9			
26	0.2	0.6	1.2	1.8	2.5	3.4	5.1	6.8	76	0.1	0.2	0.5	1.5	4.4	12.6	33.9	51.9			
27	0.2	0.6	1.2	1.9	2.6	3.6	5.4	7.1	77	0.1	0.2	0.5	1.5	4.4	12.4	32.9	52.6			
28	0.2	0.6	1.2	2.0	2.8	3.9	5.7	7.4	78	0.1	0.2	0.5	1.4	4.3	12.1	32.9	53.2			
29	0.2	0.6	1.3	2.1	3.0	4.1	6.0	7.8	79	0.1	0.2	0.5	1.4	4.2	11.9	32.3	53.7			
30	0.2	0.6	1.3	2.2	3.1	4.3	6.3	8.1	80	0.1	0.2	0.5	1.4	4.1	11.7	31.8	53.5			
31	0.2	0.6	1.3	2.3	3.3	4.6	6.6	8.5	81	0.1	0.2	0.5	1.3	4.0	11.5	31.3	54.0			
32	0.2	0.6	1.3	2.4	3.5	4.8	6.9	8.9	82	0.1	0.2	0.5	1.3	3.9	11.3	30.8	53.8			
33	0.2	0.6	1.4	2.5	3.7	5.1	7.3	9.3	83	0.1	0.2	0.5	1.3	3.8	11.0	30.4	53.3			
34	0.2	0.5	1.4	2.6	3.9	5.4	7.7	9.8	84	0.1	0.2	0.5	1.3	3.7	10.8	30.0	52.5			
35	0.2	0.5	1.4	2.7	4.2	5.7	8.1	10.3	85	0.1	0.2	0.5	1.2	3.7	10.6	29.7	51.5			
36	0.2	0.5	1.4	2.7	4.4	6.0	8.5	10.8	86	0.1	0.2	0.5	1.2	3.6	10.4	29.3	50.7			
37	0.2	0.5	1.4	2.8	4.6	6.3	9.0	11.3	87	0.1	0.2	0.5	1.2	3.5	10.2	28.9	50.0			
38	0.2	0.5	1.3	2.8	4.8	6.7	9.4	11.8	88	0.1	0.2	0.5	1.2	3.4	10.0	28.5	49.3			
39	0.2	0.5	1.3	2.9	5.0	7.1	9.9	12.4	89	0.1	0.2	0.5	1.2	3.3	9.8	28.0	48.6			
40	0.2	0.5	1.2	2.9	5.2	7.5	10.4	13.0	90	0.1	0.3	0.5	1.2	3.2	9.6	27.5	48.0			
41	0.2	0.4	1.2	3.0	5.4	7.9	11.6	14.3	91	0.1	0.3	0.5	1.1	3.1	9.4	27.1	47.4			
42	0.2	0.4	1.2	3.0	5.6	8.4	11.6	14.3	92	0.1	0.3	0.5	1.1	3.1	9.2	26.6	46.9			
43	0.1	0.4	1.2	3.0	5.7	8.8	12.2	15.0	93	0.1	0.3	0.5	1.1	3.0	9.0	26.1	46.3			
44	0.1	0.4	1.1	3.0	5.9	9.2	12.8	15.8	94	0.1	0.3	0.5	1.1	3.0	8.8	25.6	45.6			
45	0.1	0.4	1.1	3.0	6.0	9.7	13.5	16.6	95	0.1	0.3	0.5	1.1	2.9	8.7	25.2	45.0			
46	0.1	0.4	1.1	2.9	6.1	10.1	14.2	17.4	96	0.1	0.3	0.5	1.1	2.9	8.5	24.7	44.2			
47	0.1	0.4	1.1	2.9	6.2	10.6	15.0	18.3	97	0.1	0.3	0.5	1.1	2.8	8.3	24.2	43.5			
48	0.1	0.4	1.0	2.8	6.3	11.1	15.7	19.2	98	0.1	0.3	0.5	1.1	2.8	8.1	23.8	42.8			
49	0.1	0.4	1.0	2.8	6.4	11.5	16.6	20.1	99	0.1	0.3	0.6	1.1	2.8	7.9	23.4	42.1			
50	0.1	0.3	1.0	2.7	6.5	11.9	17.5	21.1	100	0.1	0.3	0.6	1.1	2.7	7.7	23.0	41.3			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 11 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, HZ												RAND CENTER FREQUENCY, M7											
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000							
1	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7	51	0.1	0.3	0.9	2.5	6.5	12.8	20.3	24.6							
2	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7	52	0.1	0.3	0.9	2.4	6.5	13.0	21.2	25.5							
3	0.2	0.3	0.4	0.5	0.7	1.0	1.9	2.8	53	0.1	0.3	0.8	2.4	6.4	13.3	22.2	27.2							
4	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9	54	0.1	0.3	0.8	2.3	6.2	13.5	23.2	28.6							
5	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.0	55	0.1	0.3	0.8	2.3	6.1	13.8	24.1	30.0							
6	0.2	0.3	0.4	0.6	0.8	1.3	2.1	3.2	56	0.1	0.3	0.8	2.2	6.0	14.0	25.0	31.4							
7	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3	57	0.1	0.3	0.7	2.2	5.9	14.2	25.8	32.8							
8	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4	58	0.1	0.2	0.7	2.1	5.8	14.3	26.6	34.2							
9	0.3	0.4	0.5	0.7	1.0	1.5	2.4	3.5	59	0.1	0.2	0.7	2.1	5.7	14.5	27.4	35.7							
10	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8	60	0.1	0.2	0.7	2.0	5.6	14.6	28.1	37.2							
11	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8	61	0.1	0.2	0.7	2.0	5.5	14.6	28.7	38.6							
12	0.3	0.5	0.6	0.9	1.2	1.7	2.9	4.1	62	0.1	0.2	0.6	1.9	5.4	14.5	29.5	41.2							
13	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1	63	0.1	0.2	0.6	1.9	5.3	14.3	29.9	42.3							
14	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3	64	0.1	0.2	0.6	1.8	5.2	14.1	30.4	43.5							
15	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.5	65	0.1	0.2	0.6	1.8	5.1	13.8	30.9	43.5							
16	0.3	0.5	0.8	1.1	1.5	2.2	3.4	4.7	66	0.1	0.2	0.6	1.7	5.0	13.5	31.4	44.6							
17	0.3	0.5	0.8	1.1	1.5	2.2	3.4	4.7	67	0.1	0.2	0.6	1.7	4.9	13.3	31.8	45.4							
18	0.3	0.5	0.9	1.2	1.6	2.3	3.6	4.9	68	0.1	0.2	0.6	1.7	4.7	12.9	32.6	47.3							
19	0.3	0.6	0.9	1.3	1.7	2.4	3.8	5.1	69	0.1	0.2	0.6	1.6	4.6	12.7	32.9	48.1							
20	0.3	0.6	1.0	1.3	1.8	2.6	3.9	5.4	70	0.1	0.2	0.5	1.5	4.5	12.5	33.0	49.9							
21	0.3	0.6	1.0	1.4	1.9	2.7	4.1	5.6	71	0.1	0.2	0.5	1.5	4.4	12.4	33.0	49.6							
22	0.2	0.6	1.1	1.5	2.0	2.9	4.3	5.8	72	0.1	0.2	0.5	1.5	4.3	12.2	32.8	50.3							
23	0.2	0.6	1.1	1.6	2.2	3.0	4.6	6.1	73	0.1	0.2	0.5	1.5	4.3	12.2	32.8	50.3							
24	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.4	74	0.1	0.2	0.5	1.4	4.2	11.9	32.4	51.0							
25	0.2	0.6	1.2	1.8	2.5	3.4	5.1	6.7	75	0.1	0.2	0.5	1.4	4.1	11.7	31.8	51.5							
26	0.2	0.6	1.2	1.9	2.6	3.6	5.3	7.0	76	0.1	0.2	0.5	1.4	4.0	11.5	31.2	52.0							
27	0.2	0.6	1.3	2.0	2.8	3.8	5.6	7.3	77	0.1	0.2	0.5	1.3	3.9	11.3	30.7	52.2							
28	0.2	0.6	1.3	2.1	2.9	4.0	5.9	7.7	78	0.1	0.2	0.5	1.3	3.8	11.1	30.2	52.2							
29	0.2	0.5	1.3	2.2	3.1	4.3	6.2	8.1	79	0.1	0.2	0.5	1.3	3.7	10.9	29.8	52.0							
30	0.2	0.5	1.3	2.3	3.3	4.5	6.6	8.4	80	0.1	0.2	0.5	1.2	3.7	10.7	29.4	51.5							
31	0.2	0.5	1.3	2.4	3.5	4.8	6.9	8.8	81	0.1	0.2	0.5	1.2	3.6	10.4	29.0	50.7							
32	0.2	0.5	1.3	2.5	3.7	5.1	7.3	9.2	82	0.1	0.2	0.5	1.2	3.5	10.2	28.6	49.7							
33	0.2	0.5	1.3	2.5	3.9	5.4	7.6	9.7	83	0.1	0.2	0.5	1.2	3.4	10.0	28.3	48.9							
34	0.2	0.5	1.3	2.6	4.1	5.7	8.1	10.2	84	0.1	0.2	0.5	1.2	3.4	9.9	27.9	48.2							
35	0.2	0.5	1.3	2.7	4.3	6.0	8.5	10.7	85	0.1	0.2	0.5	1.1	3.3	9.7	27.4	47.5							
36	0.2	0.5	1.3	2.7	4.6	6.3	8.9	11.2	86	0.1	0.2	0.5	1.1	3.2	9.5	27.0	46.9							
37	0.2	0.5	1.2	2.8	4.8	6.7	9.4	11.8	87	0.1	0.2	0.5	1.1	3.1	9.2	26.5	46.3							
38	0.2	0.5	1.2	2.8	5.0	7.1	9.9	12.4	88	0.1	0.2	0.5	1.1	3.0	9.0	26.1	45.7							
39	0.2	0.4	1.2	2.9	5.2	7.5	10.4	13.0	89	0.1	0.2	0.5	1.1	3.0	8.8	25.6	45.3							
40	0.1	0.4	1.2	2.9	5.3	7.9	11.0	13.6	90	0.1	0.3	0.5	1.1	2.9	8.6	25.1	44.6							
41	0.1	0.4	1.1	2.9	5.5	8.4	11.6	14.3	91	0.1	0.3	0.5	1.1	2.9	8.5	24.7	44.0							
42	0.1	0.4	1.1	2.9	5.7	8.8	12.2	15.0	92	0.1	0.3	0.5	1.1	2.8	8.3	24.2	43.3							
43	0.1	0.4	1.1	2.9	5.9	9.2	12.8	15.6	93	0.1	0.3	0.5	1.1	2.8	8.2	23.8	42.6							
44	0.1	0.4	1.0	2.8	6.1	9.7	13.5	16.4	94	0.1	0.3	0.5	1.1	2.7	8.0	23.3	41.9							
45	0.1	0.4	1.0	2.8	6.3	10.1	14.3	17.4	95	0.1	0.3	0.5	1.1	2.7	7.8	22.9	41.2							
46	0.1	0.3	1.0	2.7	6.5	10.6	15.0	18.3	96	0.1	0.3	0.5	1.1	2.7	7.6	22.5	40.5							
47	0.1	0.3	1.0	2.6	6.7	11.0	15.8	19.2	97	0.1	0.3	0.5	1.1	2.6	7.4	22.1	39.8							
48	0.1	0.3	0.9	2.6	6.9	11.4	16.7	20.2	98	0.1	0.3	0.5	1.1	2.6	7.3	21.6	39.0							
49	0.1	0.3	0.9	2.5	7.1	11.8	17.6	21.2	99	0.1	0.3	0.5	1.1	2.6	7.1	21.2	38.2							
50	0.1	0.3	0.9	2.5	7.3	12.1	18.5	22.3	100	0.1	0.3	0.6	1.1	2.5	7.0	20.7	37.6							

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB DEF 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND 12 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7						BAND CENTER FREQUENCY, M7										
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8	51	0.1	0.3	0.8	2.3	6.1	13.1	22.1	27.2
2	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9	52	0.1	0.3	0.8	2.2	6.0	13.3	23.0	28.6
3	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0	53	0.1	0.3	0.8	2.2	5.9	13.5	23.9	29.9
4	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1	54	0.1	0.3	0.7	2.1	5.8	13.7	24.8	31.3
5	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2	55	0.1	0.2	0.7	2.1	5.7	13.9	25.6	32.7
6	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3	56	0.1	0.2	0.7	2.0	5.6	14.0	26.3	34.1
7	0.2	0.4	0.5	0.7	1.0	1.4	2.4	3.5	57	0.1	0.2	0.7	2.0	5.5	14.1	27.0	35.6
8	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	58	0.1	0.2	0.7	1.9	5.4	14.2	27.7	37.0
9	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.7	59	0.1	0.2	0.6	1.9	5.3	14.1	28.3	38.3
10	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9	60	0.1	0.2	0.6	1.8	5.2	14.0	28.8	39.6
11	0.3	0.5	0.7	0.9	1.2	1.8	2.9	4.1	61	0.1	0.2	0.6	1.8	5.1	13.8	29.4	40.8
12	0.3	0.5	0.7	0.9	1.2	1.9	3.0	4.2	62	0.1	0.2	0.6	1.8	5.0	13.5	29.9	41.9
13	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4	63	0.1	0.2	0.6	1.7	4.9	13.2	30.4	43.0
14	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6	64	0.1	0.2	0.6	1.7	4.8	13.0	30.8	44.0
15	0.3	0.5	0.8	1.1	1.6	2.2	3.5	4.8	65	0.1	0.2	0.6	1.6	4.7	12.8	31.2	44.9
16	0.3	0.5	0.9	1.2	1.7	2.3	3.7	5.0	66	0.1	0.2	0.5	1.6	4.6	12.6	31.6	45.7
17	0.3	0.6	0.9	1.3	1.8	2.5	3.9	5.2	67	0.1	0.2	0.5	1.6	4.5	12.4	31.9	46.6
18	0.3	0.6	1.0	1.4	1.9	2.7	4.1	5.5	68	0.1	0.2	0.5	1.5	4.4	12.2	32.0	47.3
19	0.2	0.6	1.0	1.5	2.0	2.8	4.3	5.7	69	0.1	0.2	0.5	1.5	4.3	12.1	32.0	48.1
20	0.2	0.6	1.1	1.6	2.1	3.0	4.5	6.0	70	0.1	0.2	0.5	1.4	4.2	11.9	31.9	48.7
21	0.2	0.6	1.1	1.7	2.3	3.2	4.7	6.3	71	0.1	0.2	0.5	1.4	4.1	11.7	31.6	49.4
22	0.2	0.6	1.1	1.8	2.4	3.3	5.0	6.6	72	0.1	0.2	0.5	1.4	4.0	11.4	31.0	49.9
23	0.2	0.6	1.2	1.9	2.5	3.5	5.2	6.9	73	0.1	0.2	0.5	1.3	3.9	11.2	30.4	50.4
24	0.2	0.6	1.2	2.0	2.7	3.7	5.5	7.2	74	0.1	0.2	0.5	1.3	3.8	11.0	29.9	50.7
25	0.2	0.6	1.2	2.1	2.9	4.0	5.8	7.6	75	0.1	0.2	0.5	1.3	3.7	10.8	29.4	50.7
26	0.2	0.5	1.2	2.2	3.1	4.2	6.1	7.9	76	0.1	0.2	0.5	1.2	3.7	10.6	29.0	50.6
27	0.2	0.5	1.3	2.3	3.2	4.4	6.4	8.3	77	0.1	0.2	0.5	1.2	3.6	10.4	28.6	50.1
28	0.2	0.5	1.3	2.4	3.4	4.7	6.8	8.7	78	0.1	0.2	0.5	1.2	3.5	10.2	28.2	49.4
29	0.2	0.5	1.3	2.5	3.7	5.0	7.2	9.1	79	0.1	0.2	0.5	1.2	3.4	10.0	27.8	48.3
30	0.2	0.5	1.3	2.5	3.9	5.3	7.5	9.6	80	0.1	0.2	0.5	1.1	3.3	9.8	27.5	47.6
31	0.2	0.5	1.3	2.6	4.1	5.6	7.9	10.1	81	0.1	0.2	0.5	1.1	3.3	9.6	27.1	46.9
32	0.2	0.5	1.3	2.6	4.3	5.9	8.4	10.6	82	0.1	0.2	0.5	1.1	3.2	9.4	26.7	46.2
33	0.2	0.5	1.2	2.7	4.5	6.2	8.8	11.1	83	0.1	0.2	0.5	1.1	3.1	9.2	26.2	45.6
34	0.2	0.4	1.2	2.7	4.7	6.6	9.3	11.7	84	0.1	0.2	0.5	1.1	3.0	9.0	25.8	45.0
35	0.2	0.4	1.2	2.8	4.9	7.0	9.8	12.2	85	0.1	0.2	0.5	1.1	3.0	8.8	25.3	44.4
36	0.1	0.4	1.2	2.8	5.1	7.4	10.3	12.9	86	0.1	0.2	0.5	1.1	2.9	8.6	24.9	43.9
37	0.1	0.4	1.1	2.8	5.3	7.8	10.9	13.5	87	0.1	0.2	0.5	1.1	2.9	8.4	24.4	43.4
38	0.1	0.4	1.1	2.9	5.4	8.3	11.5	14.2	88	0.1	0.2	0.5	1.1	2.9	8.2	24.0	42.7
39	0.1	0.4	1.1	2.9	5.6	8.7	12.1	14.9	89	0.1	0.2	0.5	1.1	2.7	8.1	23.5	42.0
40	0.1	0.4	1.1	2.8	5.7	9.1	12.7	15.7	90	0.1	0.3	0.5	1.1	2.7	7.9	23.1	41.4
41	0.1	0.4	1.0	2.8	5.8	9.6	13.4	16.5	91	0.1	0.3	0.5	1.1	2.6	7.7	22.6	40.7
42	0.1	0.4	1.0	2.7	5.9	10.0	14.2	17.3	92	0.1	0.3	0.5	1.1	2.6	7.6	22.2	40.0
43	0.1	0.3	1.0	2.7	6.0	10.5	14.9	18.2	93	0.1	0.3	0.5	1.1	2.5	7.4	21.8	39.3
44	0.1	0.3	1.0	2.6	6.1	10.9	15.7	19.1	94	0.1	0.3	0.5	1.1	2.5	7.2	21.4	38.6
45	0.1	0.3	0.9	2.6	6.2	11.3	16.6	20.1	95	0.1	0.3	0.5	1.1	2.5	7.0	21.0	37.9
46	0.1	0.3	0.9	2.5	6.3	11.6	17.5	21.1	96	0.1	0.3	0.5	1.1	2.5	6.9	20.5	37.2
47	0.1	0.3	0.9	2.5	6.3	12.0	18.4	22.2	97	0.1	0.3	0.5	1.1	2.5	6.7	20.1	36.5
48	0.1	0.3	0.9	2.4	6.3	12.3	19.3	23.4	98	0.1	0.3	0.5	1.1	2.5	6.6	19.7	35.8
49	0.1	0.3	0.8	2.4	6.3	12.6	20.2	24.6	99	0.1	0.3	0.6	1.1	2.5	6.5	19.3	35.2
50	0.1	0.3	0.8	2.3	6.3	12.8	21.1	25.8	100	0.1	0.3	0.6	1.1	2.4	6.4	18.9	34.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 13 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
		53	125	250	500	1000	2000	4000	8000	53	125	250	500	1000	2000	4000	8000	
1	T	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9	51	5.1	0.2	0.7	2.1	5.7	13.2	23.6	29.6
2	E	0.2	0.3	0.4	0.5	0.8	1.1	2.0	3.0	52	0.1	0.2	0.7	2.1	5.5	13.4	24.4	30.9
3	P	0.2	0.3	0.4	0.6	0.9	1.3	2.1	3.1	53	0.1	0.2	0.7	2.0	5.5	13.4	25.2	32.3
4	R	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.2	54	0.1	0.2	0.7	2.0	5.6	13.7	25.9	33.7
5	E	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4	55	0.1	0.2	0.7	1.9	5.3	13.8	26.6	35.2
6	T	0.2	0.4	0.5	0.7	1.0	1.4	2.4	3.5	56	0.1	0.2	0.6	1.9	5.2	13.9	27.2	36.5
7	E	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6	57	0.1	0.2	0.6	1.9	5.1	13.8	27.8	37.8
8	P	0.3	0.4	0.5	0.8	1.1	1.6	2.6	3.8	58	0.1	0.2	0.6	1.4	5.0	13.4	29.3	39.0
9	R	0.3	0.5	0.7	0.8	1.2	1.7	2.8	4.0	59	0.1	0.2	0.6	1.7	4.7	13.3	29.8	40.2
10	E	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.1	60	0.1	0.2	0.6	1.7	4.9	13.0	29.3	41.3
11	T	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3	61	0.1	0.2	0.6	1.4	4.7	12.8	29.8	42.3
12	E	0.3	0.5	0.9	1.0	1.4	2.0	3.2	4.5	62	0.1	0.2	0.5	1.6	4.6	12.6	30.2	43.3
13	P	0.3	0.5	0.9	1.1	1.5	2.2	3.4	4.7	63	0.1	0.2	0.5	1.5	4.5	12.4	30.6	44.1
14	R	0.3	0.5	0.9	1.2	1.6	2.3	3.6	4.9	64	0.1	0.2	0.5	1.5	4.5	12.4	30.6	44.1
15	E	0.3	0.5	0.9	1.1	1.5	2.1	3.7	5.1	65	0.1	0.2	0.5	1.5	4.3	12.2	31.1	45.7
16	T	0.3	0.6	1.0	1.3	1.8	2.6	3.9	5.3	66	0.1	0.2	0.5	1.5	4.2	11.8	31.2	45.5
17	E	0.2	0.6	1.0	1.4	1.9	2.7	4.2	5.6	67	0.1	0.2	0.5	1.4	4.1	11.6	31.2	47.1
18	P	0.2	0.6	1.0	1.5	2.1	2.9	4.4	5.8	68	0.1	0.2	0.5	1.4	4.0	11.4	30.9	47.8
19	R	0.2	0.6	1.1	1.6	2.2	3.1	4.6	6.1	69	0.1	0.2	0.5	1.3	3.9	11.0	29.2	48.9
20	E	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.4	70	0.1	0.2	0.5	1.3	3.8	10.9	29.3	49.3
21	T	0.2	0.6	1.1	1.8	2.5	3.4	5.1	6.7	71	0.1	0.2	0.5	1.3	3.8	10.9	29.3	49.3
22	E	0.2	0.6	1.2	1.9	2.6	3.6	5.4	7.0	72	0.1	0.2	0.5	1.2	3.7	10.5	29.9	49.4
23	P	0.2	0.6	1.2	2.0	2.8	3.9	5.7	7.4	73	0.1	0.2	0.5	1.2	3.6	10.4	29.4	49.3
24	R	0.2	0.6	1.2	2.1	3.0	4.1	6.0	7.7	74	0.1	0.2	0.5	1.2	3.5	10.2	28.0	49.0
25	E	0.2	0.5	1.2	2.2	3.2	4.3	6.3	8.1	75	0.1	0.2	0.5	1.2	3.4	10.0	27.6	48.4
26	T	0.2	0.5	1.3	2.3	3.4	4.6	6.6	8.5	76	0.1	0.2	0.5	1.1	3.4	9.8	27.2	47.4
27	E	0.2	0.5	1.3	2.4	3.6	4.9	7.0	8.9	77	0.1	0.2	0.5	1.1	3.3	9.6	26.9	46.6
28	P	0.2	0.5	1.3	2.4	3.8	5.1	7.4	9.4	78	0.1	0.2	0.5	1.1	3.2	9.4	26.5	45.9
29	R	0.2	0.5	1.3	2.5	4.0	5.4	7.8	9.9	79	0.1	0.2	0.5	1.1	3.1	9.2	26.1	45.2
30	E	0.2	0.5	1.3	2.6	4.2	5.6	8.2	10.3	80	0.1	0.2	0.5	1.1	3.0	9.0	25.7	44.6
31	T	0.2	0.5	1.2	2.6	4.4	6.1	8.6	10.9	81	0.1	0.2	0.5	1.1	3.0	8.8	25.2	44.0
32	E	0.2	0.4	1.2	2.7	4.6	6.5	9.1	11.4	82	0.1	0.2	0.5	1.0	2.9	8.6	24.8	43.4
33	P	0.2	0.4	1.2	2.7	4.8	6.9	9.6	12.0	83	0.1	0.2	0.5	1.0	2.9	8.4	24.4	42.9
34	R	0.2	0.4	1.2	2.7	4.8	6.9	9.6	12.0	84	0.1	0.2	0.5	1.0	2.9	8.2	23.9	42.4
35	E	0.1	0.4	1.1	2.7	5.0	7.3	10.1	12.6	85	0.1	0.2	0.5	1.0	2.9	8.2	23.9	42.4
36	T	0.1	0.4	1.1	2.8	5.1	7.7	10.7	13.3	86	0.1	0.2	0.5	1.0	2.7	8.1	23.5	41.7
37	E	0.1	0.4	1.1	2.9	5.3	8.1	11.3	13.9	87	0.1	0.2	0.5	1.0	2.7	7.9	23.0	41.1
38	P	0.1	0.4	1.1	2.8	5.4	8.5	11.9	14.6	88	0.1	0.2	0.5	1.0	2.6	7.8	22.6	40.4
39	R	0.1	0.4	1.0	2.8	5.6	9.0	12.5	15.4	89	0.1	0.2	0.5	1.0	2.7	7.6	22.1	39.8
40	E	0.1	0.4	1.0	2.7	5.7	9.4	13.2	16.2	90	0.1	0.2	0.5	1.0	2.5	7.4	21.7	39.1
41	T	0.1	0.4	1.0	2.7	5.8	9.9	13.9	17.0	91	0.1	0.2	0.5	1.0	2.5	7.2	21.3	38.4
42	E	0.1	0.3	1.0	2.7	5.8	9.9	13.9	17.0	92	0.1	0.2	0.5	1.0	2.5	7.1	20.9	37.7
43	P	0.1	0.3	1.0	2.6	5.9	10.3	14.7	17.9	93	0.1	0.2	0.5	1.0	2.4	6.9	20.5	37.0
44	R	0.1	0.3	0.9	2.5	6.0	10.7	15.5	18.8	94	0.1	0.2	0.5	1.0	2.4	6.7	20.1	36.3
45	E	0.1	0.3	0.9	2.4	6.1	11.1	16.3	19.6	95	0.1	0.2	0.5	1.1	2.4	6.6	19.6	35.7
46	T	0.1	0.3	0.9	2.4	6.1	11.4	17.2	20.8	96	0.1	0.2	0.5	1.1	2.4	6.5	19.2	35.0
47	E	0.1	0.3	0.8	2.4	6.2	11.7	18.1	21.9	97	0.1	0.2	0.5	1.1	2.4	6.3	18.8	34.4
48	P	0.1	0.3	0.8	2.3	6.2	12.0	19.0	23.1	98	0.1	0.2	0.5	1.1	2.4	6.2	18.5	33.8
49	R	0.1	0.3	0.8	2.3	6.1	12.3	19.9	24.4	99	0.1	0.2	0.5	1.1	2.3	6.1	18.2	33.2
50	E	0.1	0.3	0.8	2.2	6.0	12.6	20.8	25.5	100	0.1	0.2	0.6	1.1	2.3	6.0	17.8	32.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE T AND 14 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, M ³				
	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.0	5.0	10.0
2	0.2	0.3	0.4	0.6	0.9	1.2	2.1	3.1	5.1	10.1
3	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3	5.2	10.2
4	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4	5.3	10.3
5	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5	5.4	10.4
6	0.2	0.4	0.6	0.8	1.1	1.5	2.5	3.7	5.6	10.6
7	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8	5.7	10.7
8	0.3	0.5	0.6	0.9	1.2	1.7	2.8	4.0	5.9	10.9
9	0.3	0.5	0.7	0.9	1.3	1.8	3.0	4.2	6.1	11.1
10	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.3	6.2	11.2
11	0.3	0.5	0.8	1.1	1.4	2.1	3.3	4.5	6.4	11.4
12	0.3	0.5	0.8	1.1	1.5	2.2	3.4	4.7	6.5	11.5
13	0.3	0.5	0.9	1.2	1.6	2.3	3.6	5.0	6.7	11.7
14	0.3	0.5	0.9	1.3	1.7	2.5	3.8	5.2	6.9	11.9
15	0.2	0.6	1.0	1.4	1.9	2.6	4.0	5.4	7.1	12.1
16	0.2	0.6	1.0	1.5	2.0	2.8	4.2	5.6	7.3	12.3
17	0.2	0.6	1.1	1.6	2.1	2.9	4.4	5.9	7.5	12.5
18	0.2	0.6	1.1	1.7	2.2	3.1	4.7	6.1	7.7	12.7
19	0.2	0.6	1.1	1.8	2.4	3.3	5.0	6.3	7.9	12.9
20	0.2	0.6	1.1	1.9	2.5	3.5	5.2	6.5	8.1	13.1
21	0.2	0.6	1.2	2.0	2.7	3.7	5.5	6.8	8.3	13.3
22	0.2	0.5	1.2	2.1	2.9	3.9	5.8	7.1	8.6	13.6
23	0.2	0.5	1.2	2.1	3.0	4.2	6.1	7.4	8.9	13.9
24	0.2	0.5	1.2	2.2	3.2	4.4	6.4	7.7	9.2	14.2
25	0.2	0.5	1.2	2.3	3.4	4.7	6.7	8.0	9.5	14.5
26	0.2	0.5	1.2	2.4	3.6	5.0	7.1	8.4	9.8	14.8
27	0.2	0.5	1.2	2.4	3.8	5.3	7.5	8.8	10.1	15.1
28	0.2	0.5	1.2	2.5	4.1	5.6	7.9	9.1	10.4	15.4
29	0.2	0.4	1.2	2.6	4.3	5.9	8.4	9.6	10.6	15.6
30	0.2	0.4	1.2	2.6	4.5	6.3	8.8	10.1	11.1	16.1
31	0.1	0.4	1.1	2.6	4.7	6.7	9.3	10.7	11.7	16.7
32	0.1	0.4	1.1	2.7	4.9	7.0	9.8	11.3	12.3	17.3
33	0.1	0.4	1.1	2.7	5.0	7.5	10.4	12.0	13.0	17.9
34	0.1	0.4	1.1	2.7	5.2	7.9	11.0	12.6	13.6	18.5
35	0.1	0.4	1.0	2.7	5.3	8.3	11.6	13.3	14.3	19.1
36	0.1	0.4	1.0	2.7	5.4	8.7	12.2	14.0	15.0	19.7
37	0.1	0.4	1.0	2.7	5.6	9.2	12.9	14.8	15.8	20.3
38	0.1	0.3	1.0	2.6	5.7	9.6	13.6	15.6	16.6	20.9
39	0.1	0.3	0.9	2.5	5.8	10.0	14.3	16.3	17.5	21.5
40	0.1	0.3	0.9	2.5	5.8	10.4	15.1	17.1	18.5	22.1
41	0.1	0.3	0.9	2.4	5.9	10.8	16.0	17.9	19.4	22.7
42	0.1	0.3	0.9	2.4	6.0	11.2	16.9	18.8	20.4	23.3
43	0.1	0.3	0.8	2.3	6.0	11.5	17.7	19.7	21.5	23.9
44	0.1	0.3	0.8	2.3	6.1	11.8	18.6	20.6	22.6	24.5
45	0.1	0.3	0.8	2.3	6.2	12.1	19.5	21.5	23.7	25.1
46	0.1	0.3	0.8	2.2	6.0	12.3	20.4	22.5	24.8	25.7
47	0.1	0.3	0.8	2.2	5.8	12.5	21.4	23.4	25.9	26.3
48	0.1	0.3	0.7	2.1	5.7	12.8	22.3	24.3	27.0	26.9
49	0.1	0.2	0.7	2.1	5.6	13.0	23.1	25.1	28.0	27.5
50	0.1	0.2	0.7	2.0	5.5	13.1	23.9	25.9	29.0	28.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 15 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ							BAND CENTER FREQUENCY, MZ						
		63	125	250	500	1000	2000	4000	63	125	250	500	1000	2000	4000
1	T	0.2	0.3	0.4	0.6	0.8	1.2	2.1	1.2	0.1	0.2	0.6	1.0	5.1	13.2
2	T	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3	0.1	0.2	0.6	1.8	5.0	13.2
3	T	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4	0.1	0.2	0.6	1.8	5.0	13.2
4	T	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5	0.1	0.2	0.6	1.7	4.9	13.1
5	T	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7	0.1	0.2	0.6	1.7	4.7	12.7
6	T	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.8	0.1	0.2	0.5	1.6	4.6	12.4
7	T	0.3	0.5	0.6	0.9	1.2	1.8	2.8	4.0	0.1	0.2	0.5	1.6	4.5	12.2
8	T	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2	0.1	0.2	0.5	1.5	4.4	12.0
9	T	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4	0.1	0.2	0.5	1.5	4.3	11.8
10	T	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6	0.1	0.2	0.5	1.5	4.2	11.6
11	T	0.3	0.5	0.8	1.1	1.5	2.2	3.5	4.8	0.1	0.2	0.5	1.4	4.1	11.4
12	T	0.3	0.5	0.9	1.2	1.7	2.4	3.7	5.0	0.1	0.2	0.5	1.4	4.0	11.2
13	T	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2	0.1	0.2	0.5	1.3	3.9	11.0
14	T	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5	0.1	0.2	0.5	1.3	3.8	10.8
15	T	0.2	0.6	1.0	1.5	2.0	2.8	4.3	5.7	0.1	0.2	0.4	1.3	3.7	10.6
16	T	0.2	0.6	1.1	1.6	2.1	3.0	4.5	6.0	0.1	0.2	0.4	1.2	3.6	10.4
17	T	0.2	0.6	1.1	1.7	2.3	3.2	4.7	6.3	0.1	0.2	0.4	1.2	3.5	10.2
18	T	0.2	0.6	1.1	1.8	2.4	3.4	5.0	6.6	0.1	0.2	0.4	1.2	3.5	10.0
19	T	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9	0.1	0.2	0.4	1.1	3.4	9.8
20	T	0.2	0.5	1.2	2.0	2.7	3.8	5.6	7.3	0.1	0.2	0.4	1.1	3.3	9.6
21	T	0.2	0.5	1.2	2.1	2.9	4.0	5.9	7.6	0.1	0.2	0.4	1.1	3.2	9.4
22	T	0.2	0.5	1.2	2.2	3.1	4.3	6.2	8.0	0.1	0.2	0.4	1.1	3.2	9.2
23	T	0.2	0.5	1.2	2.2	3.2	4.4	6.4	8.3	0.1	0.2	0.4	1.1	3.1	9.0
24	T	0.2	0.5	1.2	2.3	3.3	4.5	6.5	8.6	0.1	0.2	0.4	1.0	3.0	8.8
25	T	0.2	0.5	1.2	2.4	3.4	4.6	6.7	8.9	0.1	0.2	0.4	1.0	2.9	8.7
26	T	0.2	0.5	1.2	2.4	3.5	4.7	6.9	9.2	0.1	0.2	0.4	1.0	2.8	8.5
27	T	0.2	0.4	1.2	2.5	4.1	5.7	8.1	10.2	0.1	0.2	0.4	1.0	2.7	8.4
28	T	0.2	0.4	1.2	2.5	4.3	6.0	8.5	10.8	0.1	0.2	0.4	1.0	2.7	8.1
29	T	0.1	0.4	1.1	2.6	4.5	6.4	9.5	11.3	0.1	0.2	0.5	1.0	2.6	7.9
30	T	0.1	0.4	1.1	2.6	4.7	6.8	9.5	11.9	0.1	0.2	0.5	1.0	2.6	7.6
31	T	0.1	0.4	1.1	2.7	4.9	7.2	10.0	12.5	0.1	0.2	0.5	1.0	2.6	7.4
32	T	0.1	0.4	1.1	2.7	5.0	7.6	10.6	13.2	0.1	0.2	0.5	1.0	2.5	7.4
33	T	0.1	0.4	1.0	2.7	5.2	8.0	11.2	13.8	0.1	0.2	0.5	1.0	2.5	7.2
34	T	0.1	0.4	1.0	2.7	5.3	8.5	11.8	14.6	0.1	0.2	0.5	1.0	2.4	7.1
35	T	0.1	0.3	1.0	2.6	5.4	8.9	12.5	15.1	0.1	0.2	0.5	1.0	2.4	6.9
36	T	0.1	0.3	1.0	2.6	5.5	9.3	13.2	16.1	0.1	0.2	0.5	1.0	2.4	6.7
37	T	0.1	0.3	0.9	2.5	5.6	9.8	13.9	17.0	0.1	0.2	0.5	1.0	2.4	6.6
38	T	0.1	0.3	0.9	2.5	5.7	10.2	14.7	17.5	0.1	0.2	0.5	1.0	2.3	6.4
39	T	0.1	0.3	0.9	2.4	5.8	10.5	15.4	18.8	0.1	0.2	0.5	1.0	2.3	6.3
40	T	0.1	0.3	0.8	2.3	5.9	11.2	17.3	20.9	0.1	0.2	0.5	1.0	2.3	6.2
41	T	0.1	0.3	0.8	2.3	5.9	11.5	18.1	22.0	0.1	0.2	0.5	1.0	2.3	6.0
42	T	0.1	0.3	0.8	2.3	5.9	11.8	19.0	23.2	0.1	0.2	0.5	1.0	2.2	5.9
43	T	0.1	0.3	0.8	2.2	5.9	12.0	19.9	24.4	0.1	0.2	0.5	1.0	2.2	5.8
44	T	0.1	0.3	0.7	2.1	5.7	12.3	20.8	25.7	0.1	0.2	0.5	1.0	2.2	5.6
45	T	0.1	0.2	0.7	2.1	5.6	12.5	21.8	27.1	0.1	0.2	0.5	1.0	2.2	5.5
46	T	0.1	0.2	0.7	2.0	5.5	12.7	22.6	28.3	0.1	0.2	0.5	1.0	2.2	5.4
47	T	0.1	0.2	0.7	2.0	5.4	12.9	23.4	29.7	0.1	0.2	0.5	1.0	2.2	5.3
48	T	0.1	0.2	0.7	1.9	5.3	13.0	24.1	31.0	0.1	0.2	0.5	1.0	2.2	5.3
49	T	0.1	0.2	0.6	1.9	5.2	13.2	24.8	32.4	0.1	0.2	0.5	1.0	2.2	5.3
50	T	0.1	0.2	0.6	1.9	5.2	13.2	24.8	32.4	0.1	0.2	0.5	1.0	2.2	5.3

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB ARE 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND PERCENT RELATIVE HUMIDITY

	RANGE CENTER FREQUENCY, M7					RANGE CENTER FREQUENCY, M7					RANGE CENTER FREQUENCY, M7							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3	T	51	0.1	0.2	0.6	1.7	4.8	12.9	26.1	35.5
2	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4		52	0.1	0.2	0.6	1.7	4.7	12.8	26.6	36.7
3	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.6		53	0.1	0.2	0.5	1.6	4.6	12.5	27.1	37.8
4	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7		54	0.1	0.2	0.5	1.6	4.5	12.2	27.5	38.8
5	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9		55	0.1	0.2	0.5	1.5	4.4	12.0	28.0	39.8
6	0.3	0.5	0.7	0.9	1.2	1.8	2.8	4.0		56	0.1	0.2	0.5	1.5	4.3	11.7	28.3	40.7
7	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2		57	0.1	0.2	0.5	1.5	4.2	11.5	28.7	41.5
8	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4		58	0.1	0.2	0.5	1.4	4.1	11.3	29.0	42.3
9	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6		59	0.1	0.2	0.5	1.4	4.0	11.2	29.2	43.0
10	0.3	0.5	0.8	1.1	1.6	2.2	3.5	4.8		60	0.1	0.2	0.5	1.4	3.9	11.0	29.2	43.7
11	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0		61	0.1	0.2	0.5	1.3	3.8	10.8	29.1	44.3
12	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2		62	0.1	0.2	0.4	1.3	3.8	10.6	28.8	44.9
13	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5		63	0.1	0.2	0.4	1.2	3.7	10.4	28.3	45.4
14	0.2	0.6	1.0	1.5	2.0	2.8	4.3	5.8		64	0.1	0.2	0.4	1.2	3.6	10.2	27.7	45.9
15	0.2	0.6	1.1	1.6	2.2	3.0	4.5	6.0		65	0.1	0.2	0.4	1.2	3.5	10.0	27.2	46.1
16	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.3		66	0.1	0.2	0.4	1.1	3.4	9.8	26.7	46.1
17	0.2	0.5	1.1	1.8	2.4	3.4	5.0	6.6		67	0.1	0.2	0.4	1.1	3.3	9.6	26.3	46.0
18	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0		68	0.1	0.2	0.4	1.1	3.2	9.4	25.9	45.5
19	0.2	0.5	1.2	2.0	2.8	3.8	5.6	7.3		69	0.1	0.2	0.4	1.1	3.2	9.2	25.5	44.7
20	0.2	0.5	1.2	2.1	3.0	4.1	5.9	7.7		70	0.1	0.2	0.4	1.1	3.1	9.0	25.2	43.8
21	0.2	0.5	1.2	2.2	3.1	4.3	6.2	8.1		71	0.1	0.2	0.4	1.0	3.0	8.8	24.9	43.1
22	0.2	0.5	1.2	2.2	3.4	4.6	6.6	8.5		72	0.1	0.2	0.4	1.0	2.9	8.6	24.5	42.4
23	0.2	0.5	1.2	2.3	3.5	4.8	7.0	8.9		73	0.1	0.2	0.4	1.0	2.9	8.5	24.1	41.7
24	0.2	0.5	1.2	2.4	3.7	5.1	7.3	9.4		74	0.1	0.2	0.4	1.0	2.8	8.3	23.6	41.1
25	0.2	0.4	1.2	2.4	3.9	5.5	7.8	9.8		75	0.1	0.2	0.4	1.0	2.7	8.1	23.2	40.6
26	0.2	0.4	1.2	2.5	4.2	5.6	8.2	10.3		76	0.1	0.2	0.4	1.0	2.7	7.9	22.8	40.1
27	0.1	0.4	1.1	2.5	4.4	6.1	8.7	10.9		77	0.1	0.2	0.4	1.0	2.6	7.7	22.3	39.6
28	0.1	0.4	1.1	2.6	4.6	6.5	9.1	11.5		78	0.1	0.2	0.4	1.0	2.5	7.5	21.9	39.0
29	0.1	0.4	1.1	2.6	4.7	6.9	9.7	12.1		79	0.1	0.2	0.4	1.0	2.5	7.4	21.5	38.4
30	0.1	0.4	1.0	2.6	4.9	7.3	10.2	12.7		80	0.1	0.2	0.5	1.0	2.4	7.2	21.1	37.7
31	0.1	0.4	1.0	2.6	5.0	7.7	10.8	13.3		81	0.1	0.2	0.5	1.0	2.4	7.1	20.6	37.1
32	0.1	0.4	1.0	2.5	5.2	8.1	11.4	14.1		82	0.1	0.2	0.5	1.0	2.4	6.9	20.2	36.4
33	0.1	0.3	1.0	2.6	5.3	8.6	12.0	14.8		83	0.1	0.2	0.5	1.0	2.3	6.7	19.9	35.8
34	0.1	0.3	1.0	2.6	5.4	9.0	12.7	15.6		84	0.1	0.2	0.5	1.0	2.3	6.6	19.5	35.1
35	0.1	0.3	0.9	2.5	5.5	9.5	13.4	16.4		85	0.1	0.2	0.5	1.0	2.3	6.4	19.1	34.5
36	0.1	0.3	0.9	2.4	5.6	9.9	14.2	17.3		86	0.1	0.2	0.5	1.0	2.2	6.3	18.7	33.8
37	0.1	0.3	0.9	2.4	5.7	10.2	15.0	18.2		87	0.1	0.2	0.5	1.0	2.2	6.1	18.3	33.2
38	0.1	0.3	0.9	2.4	5.7	10.6	15.8	19.2		88	0.1	0.2	0.5	1.0	2.2	6.0	17.9	32.6
39	0.1	0.3	0.8	2.3	5.8	10.9	16.7	20.2		89	0.1	0.2	0.5	1.0	2.2	5.9	17.5	32.0
40	0.1	0.3	0.8	2.2	5.8	11.2	17.5	21.3		90	0.1	0.3	0.5	1.0	2.2	5.8	17.2	31.4
41	0.1	0.3	0.8	2.2	5.8	11.5	18.4	22.4		91	0.1	0.3	0.5	1.0	2.2	5.7	16.9	30.8
42	0.1	0.3	0.8	2.1	5.8	11.7	19.3	23.6		92	0.1	0.3	0.5	1.0	2.2	5.6	16.5	30.2
43	0.1	0.3	0.7	2.1	5.7	12.0	20.2	24.9		93	0.1	0.3	0.5	1.0	2.2	5.5	16.2	29.5
44	0.1	0.2	0.7	2.0	5.5	12.2	21.1	26.2		94	0.1	0.3	0.5	1.1	2.2	5.4	15.8	28.9
45	0.1	0.2	0.7	2.0	5.4	12.4	22.0	27.5		95	0.1	0.3	0.5	1.1	2.2	5.3	15.5	28.3
46	0.1	0.2	0.7	1.9	5.3	12.6	22.8	28.8		96	0.1	0.3	0.5	1.1	2.2	5.3	15.1	27.8
47	0.1	0.2	0.7	1.9	5.2	12.7	23.5	30.1		97	0.1	0.3	0.5	1.1	2.2	5.2	14.7	27.3
48	0.1	0.2	0.6	1.8	5.1	12.9	24.2	31.5		98	0.1	0.3	0.5	1.1	2.2	5.1	14.4	26.8
49	0.1	0.2	0.6	1.8	5.0	13.0	24.9	33.0		99	0.1	0.3	0.6	1.1	2.2	5.1	14.2	26.3
50	0.1	0.2	0.6	1.8	4.9	13.0	25.5	34.3		100	0.1	0.3	0.6	1.1	2.3	5.1	13.9	25.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE F_{100} 17 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, Hz					BAND CENTER FREQUENCY, MZ				
	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4	5.1	9.1
2	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5	5.2	9.1
3	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7	5.3	9.1
4	0.2	0.4	0.6	0.8	1.1	1.7	2.7	3.9	5.4	9.1
5	0.3	0.5	0.7	0.9	1.2	1.8	2.8	4.0	5.5	9.1
6	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2	5.6	9.1
7	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4	5.7	9.1
8	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6	5.8	9.1
9	0.2	0.5	0.8	1.2	1.6	2.2	3.5	4.8	5.9	9.1
10	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0	6.0	9.1
11	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.3	6.1	9.1
12	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5	6.2	9.1
13	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.8	6.3	9.1
14	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.1	6.4	9.1
15	0.2	0.5	1.1	1.7	2.3	3.2	4.8	6.4	6.5	9.1
16	0.2	0.5	1.1	1.8	2.5	3.4	5.1	6.7	6.6	9.1
17	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0	6.7	9.1
18	0.2	0.5	1.1	2.0	2.8	3.8	5.6	7.3	6.8	9.1
19	0.2	0.5	1.2	2.1	3.0	4.1	6.0	7.7	6.9	9.1
20	0.2	0.5	1.2	2.2	3.2	4.3	6.3	8.1	7.0	9.1
21	0.2	0.5	1.2	2.2	3.4	4.6	6.6	8.5	7.1	9.1
22	0.2	0.5	1.2	2.3	3.6	4.9	7.0	9.0	7.2	9.1
23	0.2	0.4	1.2	2.4	3.8	5.2	7.4	9.4	7.3	9.1
24	0.2	0.4	1.2	2.4	4.0	5.5	7.8	9.9	7.4	9.1
25	0.1	0.4	1.1	2.5	4.2	5.8	8.3	10.4	7.5	9.1
26	0.1	0.4	1.1	2.5	4.4	6.2	8.7	11.0	7.6	9.1
27	0.1	0.4	1.1	2.5	4.6	6.6	9.2	11.6	7.7	9.1
28	0.1	0.4	1.0	2.6	4.7	7.0	9.7	12.2	7.8	9.1
29	0.1	0.4	1.0	2.6	5.0	7.4	10.3	12.8	7.9	9.1
30	0.1	0.4	1.0	2.6	5.1	7.8	10.9	13.5	8.0	9.1
31	0.1	0.3	1.0	2.6	5.1	8.2	11.5	14.2	8.1	9.1
32	0.1	0.3	0.9	2.6	5.3	8.6	12.2	15.0	8.2	9.1
33	0.1	0.3	0.9	2.5	5.4	9.1	12.8	15.8	8.3	9.1
34	0.1	0.3	0.9	2.4	5.5	9.5	13.6	16.6	8.4	9.1
35	0.1	0.3	0.8	2.4	5.5	9.9	14.4	17.5	8.5	9.1
36	0.1	0.3	0.8	2.3	5.6	10.3	15.2	18.4	8.6	9.1
37	0.1	0.3	0.8	2.3	5.7	10.6	16.0	19.4	8.7	9.1
38	0.1	0.3	0.8	2.2	5.7	10.9	16.9	20.5	8.8	9.1
39	0.1	0.3	0.8	2.2	5.7	11.2	17.7	21.6	8.9	9.1
40	0.1	0.3	0.8	2.1	5.7	11.5	18.6	22.8	9.0	9.1
41	0.1	0.3	0.7	2.1	5.6	11.7	19.5	24.0	9.1	9.1
42	0.1	0.2	0.7	2.0	5.5	11.9	20.4	25.3	9.2	9.1
43	0.1	0.2	0.7	2.0	5.3	12.1	21.3	26.6	9.3	9.1
44	0.1	0.2	0.7	1.9	5.2	12.3	22.1	27.9	9.4	9.1
45	0.1	0.2	0.7	1.9	5.1	12.5	22.9	29.2	9.5	9.1
46	0.1	0.2	0.6	1.8	5.0	12.6	23.6	30.5	9.6	9.1
47	0.1	0.2	0.6	1.8	4.9	12.7	24.3	31.9	9.7	9.1
48	0.1	0.2	0.6	1.7	4.9	12.7	24.9	33.3	9.8	9.1
49	0.1	0.2	0.6	1.7	4.8	12.7	25.5	34.5	9.9	9.1
50	0.1	0.2	0.6	1.7	4.7	12.6	26.0	35.7	100	9.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 18 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	31500	63	125	250	500	1000
1	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5	5.1	0.1	0.2	0.5	1.5	4.3	11.7
2	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7	5.2	0.1	0.2	0.5	1.5	4.2	11.5
3	0.2	0.4	0.6	0.8	1.1	1.7	2.7	3.8	5.3	0.1	0.2	0.5	1.4	4.1	11.3
4	0.2	0.4	0.7	0.9	1.2	1.8	2.8	4.0	5.4	0.1	0.2	0.5	1.4	4.0	11.1
5	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2	5.5	0.1	0.2	0.5	1.4	3.9	10.9
6	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4	5.6	0.1	0.2	0.5	1.3	3.8	10.7
7	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6	5.7	0.1	0.2	0.4	1.3	3.7	10.5
8	0.2	0.5	0.6	1.1	1.6	2.2	3.5	4.8	5.8	0.1	0.2	0.4	1.2	3.6	10.3
9	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0	5.9	0.1	0.2	0.4	1.2	3.5	10.1
10	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2	6.0	0.1	0.2	0.4	1.2	3.5	9.9
11	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5	6.1	0.1	0.2	0.4	1.1	3.4	9.7
12	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.8	6.2	0.1	0.2	0.4	1.1	3.3	9.5
13	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.1	6.3	0.1	0.2	0.4	1.1	3.2	9.3
14	0.2	0.5	1.1	1.7	2.3	3.2	4.8	6.4	6.4	0.1	0.2	0.4	1.1	3.1	9.1
15	0.2	0.5	1.1	1.8	2.5	3.4	5.1	6.7	6.5	0.1	0.2	0.4	1.0	3.0	8.9
16	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0	6.6	0.1	0.2	0.4	1.0	2.9	8.7
17	0.2	0.5	1.1	2.0	2.8	3.9	5.6	7.4	6.7	0.1	0.2	0.4	1.0	2.9	8.5
18	0.2	0.5	1.2	2.1	3.0	4.1	6.0	7.7	6.8	0.1	0.2	0.4	1.0	2.8	8.3
19	0.2	0.5	1.2	2.2	3.2	4.3	6.3	8.1	6.9	0.1	0.2	0.4	1.0	2.8	8.1
20	0.2	0.5	1.2	2.2	3.4	4.6	6.6	8.5	7.0	0.1	0.2	0.4	1.0	2.7	8.0
21	0.2	0.4	1.2	2.3	3.6	4.9	7.0	9.0	7.1	0.1	0.2	0.4	0.9	2.6	7.8
22	0.2	0.4	1.2	2.3	3.8	5.2	7.4	9.5	7.2	0.1	0.2	0.4	0.9	2.6	7.6
23	0.2	0.4	1.1	2.4	4.0	5.5	7.9	9.9	7.3	0.1	0.2	0.4	0.9	2.5	7.4
24	0.1	0.4	1.1	2.4	4.2	5.9	8.3	10.4	7.4	0.1	0.2	0.4	0.9	2.5	7.3
25	0.1	0.4	1.1	2.5	4.4	6.2	8.8	11.0	7.5	0.1	0.2	0.4	0.9	2.4	7.1
26	0.1	0.4	1.0	2.5	4.6	6.6	9.3	11.6	7.6	0.1	0.2	0.4	0.9	2.4	7.0
27	0.1	0.4	1.0	2.5	4.7	7.0	9.8	12.2	7.7	0.1	0.2	0.4	0.9	2.3	6.8
28	0.1	0.4	1.0	2.6	4.9	7.5	10.4	12.9	7.8	0.1	0.2	0.4	0.9	2.3	6.7
29	0.1	0.3	1.0	2.6	5.0	7.8	11.0	13.6	7.9	0.1	0.2	0.4	0.9	2.2	6.5
30	0.1	0.3	0.9	2.5	5.1	8.3	11.6	14.3	8.0	0.1	0.2	0.5	0.9	2.2	6.3
31	0.1	0.3	0.9	2.5	5.2	8.7	12.3	15.1	8.1	0.1	0.2	0.5	0.9	2.2	6.2
32	0.1	0.3	0.9	2.4	5.3	9.1	13.0	15.9	8.2	0.1	0.2	0.5	0.9	2.1	6.0
33	0.1	0.3	0.9	2.4	5.4	9.5	13.7	16.7	8.3	0.1	0.2	0.5	0.9	2.1	5.9
34	0.1	0.3	0.9	2.3	5.5	9.9	14.5	17.6	8.4	0.1	0.2	0.5	0.9	2.1	5.8
35	0.1	0.3	0.8	2.3	5.6	10.2	15.3	18.6	8.5	0.1	0.2	0.5	1.0	2.1	5.7
36	0.1	0.3	0.8	2.2	5.6	10.6	16.2	19.6	8.6	0.1	0.2	0.5	1.0	2.1	5.5
37	0.1	0.3	0.8	2.2	5.6	10.9	17.0	20.7	8.7	0.1	0.2	0.5	1.0	2.1	5.4
38	0.1	0.3	0.8	2.1	5.6	11.1	17.9	21.6	8.8	0.1	0.2	0.5	1.0	2.1	5.3
39	0.1	0.3	0.7	2.1	5.6	11.4	18.7	23.0	8.9	0.1	0.2	0.5	1.0	2.1	5.3
40	0.1	0.2	0.7	2.0	5.5	11.6	19.7	24.3	9.0	0.1	0.3	0.5	1.0	2.1	5.2
41	0.1	0.2	0.7	2.0	5.3	11.8	20.6	25.6	9.1	0.1	0.3	0.5	1.0	2.1	5.1
42	0.1	0.2	0.7	1.9	5.2	12.0	21.4	26.8	9.2	0.1	0.3	0.5	1.0	2.1	5.1
43	0.1	0.2	0.6	1.9	5.1	12.2	22.2	28.1	9.3	0.1	0.3	0.5	1.0	2.1	5.0
44	0.1	0.2	0.6	1.8	5.0	12.3	22.9	29.4	9.4	0.1	0.3	0.5	1.1	2.1	4.9
45	0.1	0.2	0.6	1.8	4.9	12.5	23.6	30.8	9.5	0.1	0.3	0.5	1.1	2.2	4.9
46	0.1	0.2	0.6	1.7	4.8	12.5	24.2	32.2	9.6	0.1	0.3	0.5	1.1	2.2	4.9
47	0.1	0.2	0.6	1.7	4.7	12.5	24.8	33.4	9.7	0.1	0.3	0.5	1.1	2.2	4.9
48	0.1	0.2	0.6	1.6	4.6	12.4	25.3	34.6	9.8	0.1	0.3	0.5	1.1	2.2	4.9
49	0.1	0.2	0.5	1.6	4.5	12.2	25.8	35.8	9.9	0.1	0.3	0.6	1.1	2.2	4.8
50	0.1	0.2	0.5	1.6	4.4	12.0	26.3	36.8	100	0.1	0.3	0.6	1.1	2.3	4.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT. FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 19 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.2	0.4	0.6	0.8	1.1	1.5	2.5	3.7	5.1	6.3	7.9	10.0
2	0.2	0.4	0.6	0.8	1.1	1.6	2.7	3.8	5.2	6.5	8.1	10.1
3	0.2	0.4	0.6	0.9	1.2	1.7	2.8	4.0	5.3	6.6	8.2	10.2
4	0.2	0.5	0.7	0.9	1.3	1.9	3.0	4.2	5.4	6.7	8.3	10.3
5	0.2	0.5	0.7	1.0	1.4	2.0	3.1	4.4	5.5	6.8	8.4	10.4
6	0.2	0.5	0.8	1.1	1.5	2.1	3.3	4.6	5.6	6.9	8.5	10.5
7	0.2	0.5	0.8	1.1	1.6	2.2	3.5	4.8	5.7	7.0	8.6	10.6
8	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0	5.8	7.1	8.7	10.7
9	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2	5.9	7.2	8.8	10.8
10	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5	6.1	7.3	8.9	10.9
11	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7	6.3	7.4	9.0	11.0
12	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0	6.6	7.6	9.1	11.1
13	0.2	0.5	1.1	1.7	2.3	3.2	4.8	6.3	6.9	7.9	9.2	11.2
14	0.2	0.5	1.1	1.8	2.5	3.4	5.1	6.6	7.1	8.1	9.3	11.3
15	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0	7.5	8.5	9.6	11.4
16	0.2	0.5	1.1	2.0	2.8	3.8	5.6	7.3	7.8	8.8	9.9	11.5
17	0.2	0.5	1.1	2.1	3.0	4.1	6.0	7.7	8.2	9.2	10.0	11.6
18	0.2	0.5	1.2	2.1	3.2	4.3	6.3	8.1	8.6	9.6	10.3	11.7
19	0.2	0.4	1.2	2.2	3.4	4.6	6.7	8.5	9.0	10.0	10.7	11.8
20	0.2	0.4	1.2	2.3	3.6	4.9	7.0	9.0	9.5	10.5	11.2	11.9
21	0.2	0.4	1.1	2.3	3.8	5.2	7.5	9.5	10.0	11.0	11.7	12.0
22	0.1	0.4	1.1	2.4	4.0	5.5	8.3	10.5	11.0	12.0	12.7	12.8
23	0.1	0.4	1.1	2.4	4.2	5.9	8.8	11.0	11.5	12.5	13.2	13.3
24	0.1	0.4	1.0	2.5	4.4	6.3	9.3	11.6	12.1	13.1	13.8	13.9
25	0.1	0.4	1.0	2.5	4.5	6.6	9.8	12.2	12.7	13.7	14.4	14.5
26	0.1	0.4	1.0	2.5	4.7	7.1	10.4	12.9	13.4	14.4	15.1	15.2
27	0.1	0.4	1.0	2.5	4.8	7.5	11.0	13.6	14.1	15.1	15.8	15.9
28	0.1	0.3	1.0	2.5	5.0	7.9	11.6	14.3	14.8	15.8	16.5	16.6
29	0.1	0.3	0.9	2.5	5.1	8.3	11.8	14.6	15.1	16.1	16.8	16.9
30	0.1	0.3	0.9	2.4	5.2	8.7	12.3	15.1	15.6	16.6	17.3	17.4
31	0.1	0.3	0.9	2.4	5.3	9.1	13.0	15.9	16.4	17.4	18.1	18.2
32	0.1	0.3	0.9	2.3	5.4	9.5	13.8	16.9	17.4	18.4	19.1	19.2
33	0.1	0.3	0.8	2.3	5.4	9.9	14.6	17.7	18.2	19.2	19.9	20.0
34	0.1	0.3	0.8	2.2	5.5	10.2	15.4	18.7	19.2	20.2	20.9	21.0
35	0.1	0.3	0.8	2.2	5.6	10.5	16.3	19.7	20.2	21.2	21.9	22.0
36	0.1	0.3	0.8	2.1	5.6	10.8	17.1	20.8	21.3	22.3	23.0	23.1
37	0.1	0.3	0.7	2.1	5.5	11.1	17.9	21.9	22.4	23.4	24.1	24.2
38	0.1	0.2	0.7	2.0	5.5	11.3	18.8	23.2	23.7	24.7	25.4	25.5
39	0.1	0.2	0.7	2.0	5.3	11.5	19.7	24.4	24.9	25.9	26.6	26.7
40	0.1	0.2	0.7	1.9	5.2	11.7	20.6	25.7	26.2	27.2	27.9	28.0
41	0.1	0.2	0.7	1.9	5.1	11.9	21.4	27.0	27.5	28.5	29.2	29.3
42	0.1	0.2	0.6	1.8	5.0	12.1	22.1	28.3	28.8	29.8	30.5	30.6
43	0.1	0.2	0.6	1.8	4.9	12.2	22.9	29.6	30.1	31.1	31.8	31.9
44	0.1	0.2	0.6	1.7	4.8	12.3	23.5	31.0	31.5	32.5	33.2	33.3
45	0.1	0.2	0.6	1.7	4.7	12.3	24.1	32.3	32.8	33.8	34.5	34.6
46	0.1	0.2	0.6	1.6	4.6	12.3	24.7	33.5	34.0	35.0	35.7	35.8
47	0.1	0.2	0.5	1.6	4.5	12.2	25.2	34.6	35.1	36.1	36.8	36.9
48	0.1	0.2	0.5	1.6	4.4	11.9	25.6	35.7	36.2	37.2	37.9	38.0
49	0.1	0.2	0.5	1.5	4.3	11.6	26.1	36.8	37.3	38.3	39.0	39.1
50	0.1	0.2	0.5	1.5	4.2	11.4	26.5	37.7	38.4	39.4	40.1	40.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT. FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 20 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	0.2	0.4	0.6	0.9	1.1	1.6	2.6	3.8	T	51	0.1	0.2	0.5	1.3	3.9	10.7	26.9	39.1		
2	0.2	0.4	0.6	0.9	1.2	1.7	2.8	4.0	E	52	0.1	0.2	0.4	1.3	3.8	10.5	27.2	39.8		
3	0.2	0.5	0.7	1.0	1.3	1.8	2.9	4.1	P	53	0.1	0.2	0.4	1.3	3.7	10.4	27.3	40.5		
4	0.2	0.5	0.7	1.0	1.4	2.0	3.1	4.3	M	54	0.1	0.2	0.4	1.2	3.6	10.2	27.2	41.1		
5	0.2	0.5	0.8	1.1	1.4	2.1	3.3	4.5	E	55	0.1	0.2	0.4	1.2	3.5	10.0	27.0	41.7		
6	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.7	P	56	0.1	0.2	0.4	1.2	3.5	9.8	26.6	42.2		
7	0.2	0.5	0.9	1.2	1.7	2.3	3.6	5.0	E	57	0.1	0.2	0.4	1.1	3.4	9.6	26.0	42.7		
8	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2	M	58	0.1	0.2	0.4	1.1	3.3	9.4	25.5	43.9		
9	0.2	0.5	1.0	1.4	1.9	2.6	4.0	5.4	E	59	0.1	0.2	0.4	1.1	3.2	9.2	25.0	43.0		
10	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7	T	60	0.1	0.2	0.4	1.0	3.1	9.0	24.6	42.9		
11	0.2	0.5	1.0	1.6	2.1	3.0	4.5	6.0	E	61	0.1	0.2	0.4	1.0	3.0	8.8	24.2	42.5		
12	0.2	0.5	1.0	1.7	2.3	3.2	4.8	6.3	M	62	0.1	0.2	0.4	1.0	3.0	8.6	23.8	41.8		
13	0.2	0.5	1.1	1.8	2.4	3.4	5.0	6.6	P	63	0.1	0.2	0.4	1.0	2.9	8.4	23.5	40.8		
14	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0	E	64	0.1	0.2	0.4	1.0	2.9	8.2	23.2	40.1		
15	0.2	0.5	1.1	2.0	2.8	3.8	5.6	7.3	A	65	0.1	0.2	0.4	0.9	2.7	8.0	22.8	39.5		
16	0.2	0.5	1.1	2.0	3.0	4.1	5.9	7.7	R	66	0.1	0.2	0.4	0.9	2.7	7.9	22.4	38.8		
17	0.2	0.5	1.1	2.1	3.2	4.3	6.3	8.1	T	67	0.1	0.2	0.4	0.9	2.6	7.7	22.0	38.2		
18	0.2	0.4	1.1	2.2	3.4	4.6	6.6	8.5	U	68	0.1	0.2	0.4	0.9	2.5	7.5	21.5	37.7		
19	0.2	0.4	1.1	2.3	3.6	4.9	7.0	9.0	A	69	0.1	0.2	0.4	0.9	2.5	7.3	21.1	37.2		
20	0.1	0.4	1.1	2.3	3.8	5.2	7.4	9.4	E	70	0.1	0.2	0.4	0.9	2.4	7.0	20.3	36.1		
21	0.1	0.4	1.1	2.3	4.0	5.5	7.8	9.9	P	71	0.1	0.2	0.4	0.9	2.4	6.8	19.9	35.5		
22	0.1	0.4	1.1	2.4	4.2	5.9	8.3	10.5	M	72	0.1	0.2	0.4	0.9	2.3	6.7	19.5	34.9		
23	0.1	0.4	1.0	2.4	4.3	6.2	8.8	11.0	E	73	0.1	0.2	0.4	0.9	2.3	6.5	19.1	34.3		
24	0.1	0.4	1.0	2.5	4.5	6.6	9.3	11.6	G	74	0.1	0.2	0.4	0.9	2.2	6.4	18.7	33.6		
25	0.1	0.4	1.0	2.5	4.7	7.1	9.8	12.2	R	75	0.1	0.2	0.4	0.9	2.2	6.2	18.3	33.0		
26	0.1	0.3	1.0	2.5	4.8	7.4	10.4	12.9	E	76	0.1	0.2	0.4	0.9	2.2	6.0	18.0	32.4		
27	0.1	0.3	0.9	2.5	4.9	7.8	11.0	13.6	T	77	0.1	0.2	0.4	0.9	2.1	5.9	17.6	31.8		
28	0.1	0.3	0.9	2.5	5.0	8.3	11.6	14.3	E	78	0.1	0.2	0.4	0.9	2.1	5.7	17.2	31.1		
29	0.1	0.3	0.9	2.4	5.1	8.7	12.3	15.1	P	79	0.1	0.2	0.5	0.9	2.0	5.6	16.8	30.5		
30	0.1	0.3	0.9	2.4	5.2	9.1	13.0	15.9	F	80	0.1	0.2	0.5	0.9	2.0	5.5	16.4	29.9		
31	0.1	0.3	0.8	2.3	5.3	9.5	13.8	16.8	A	81	0.1	0.2	0.5	0.9	2.0	5.4	16.1	29.4		
32	0.1	0.3	0.8	2.2	5.4	10.2	15.4	17.7	M	82	0.1	0.2	0.5	0.9	2.0	5.3	15.8	28.9		
33	0.1	0.3	0.8	2.2	5.4	10.5	16.3	18.7	P	83	0.1	0.2	0.5	0.9	2.0	5.2	15.5	28.3		
34	0.1	0.3	0.8	2.1	5.5	10.8	17.1	19.8	E	84	0.1	0.2	0.5	1.0	2.0	5.1	15.1	27.7		
35	0.1	0.3	0.7	2.1	5.5	11.0	18.0	20.9	M	85	0.1	0.2	0.5	1.0	2.0	5.0	14.8	27.0		
36	0.1	0.2	0.7	2.0	5.4	11.2	18.8	21.2	E	86	0.1	0.2	0.5	1.0	2.0	4.9	14.5	26.5		
37	0.1	0.2	0.7	2.0	5.3	11.4	19.4	22.5	M	87	0.1	0.2	0.5	1.0	2.0	4.8	14.1	25.9		
38	0.1	0.2	0.7	1.9	5.2	11.6	20.6	24.5	F	88	0.1	0.2	0.5	1.0	2.0	4.8	13.8	25.5		
39	0.1	0.2	0.7	1.9	5.1	11.8	21.4	27.0	T	89	0.1	0.3	0.5	1.0	2.0	4.8	13.5	25.0		
40	0.1	0.2	0.6	1.8	5.0	12.1	22.1	28.3	E	90	0.1	0.3	0.5	1.0	2.0	4.7	13.2	24.5		
41	0.1	0.2	0.6	1.8	4.9	12.2	22.8	29.7	P	91	0.1	0.3	0.5	1.0	2.0	4.7	12.9	24.0		
42	0.1	0.2	0.6	1.7	4.8	12.4	23.4	31.0	M	92	0.1	0.3	0.5	1.0	2.0	4.7	12.7	23.5		
43	0.1	0.2	0.6	1.7	4.7	12.5	23.9	32.3	E	93	0.1	0.3	0.5	1.0	2.0	4.7	12.5	23.0		
44	0.1	0.2	0.6	1.6	4.6	12.7	24.5	33.5	P	94	0.1	0.3	0.5	1.1	2.2	4.7	12.2	22.4		
45	0.1	0.2	0.5	1.6	4.5	12.9	25.0	34.6	E	95	0.1	0.3	0.5	1.1	2.2	4.6	12.0	21.9		
46	0.1	0.2	0.5	1.6	4.4	13.1	25.5	35.6	M	96	0.1	0.3	0.5	1.1	2.2	4.6	11.9	21.5		
47	0.1	0.2	0.5	1.5	4.3	13.3	26.0	36.6	T	97	0.1	0.3	0.5	1.1	2.2	4.6	11.7	21.1		
48	0.1	0.2	0.5	1.5	4.2	13.5	26.5	37.5	E	98	0.1	0.3	0.5	1.1	2.2	4.6	11.5	20.7		
49	0.1	0.2	0.5	1.4	4.1	13.7	27.0	38.4	P	99	0.1	0.3	0.6	1.1	2.2	4.6	11.4	20.3		
50	0.1	0.2	0.5	1.4	4.0	13.9	27.6	39.4	M	100	0.1	0.3	0.6	1.1	2.3	4.6	11.4	20.3		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.2	0.4	0.6	0.8	1.2	1.7	2.8	3.9	5.1	6.3	7.9	10.3
2	0.2	0.5	0.7	0.9	1.2	1.8	2.9	4.1	5.2	6.3	7.9	10.3
3	0.2	0.5	0.7	1.0	1.3	1.9	3.1	4.3	5.4	6.3	7.9	10.3
4	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.5	5.5	6.3	7.9	10.3
5	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.7	5.5	6.3	7.9	10.3
6	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9	5.6	6.3	7.9	10.3
7	0.2	0.5	0.9	1.3	1.7	2.5	3.8	5.1	5.7	6.3	7.9	10.3
8	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4	5.8	6.3	7.9	10.3
9	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.7	5.9	6.3	7.9	10.3
10	0.2	0.5	1.0	1.6	2.1	3.0	4.5	5.9	6.1	6.3	7.9	10.3
11	0.2	0.5	1.1	1.7	2.3	3.2	4.7	6.2	6.4	6.3	7.9	10.3
12	0.2	0.5	1.1	1.8	2.4	3.4	5.0	6.6	6.6	6.3	7.9	10.3
13	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9	6.9	6.3	7.9	10.3
14	0.2	0.5	1.1	1.9	2.8	3.8	5.6	7.3	7.3	6.3	7.9	10.3
15	0.2	0.5	1.1	2.0	2.9	4.0	5.9	7.6	7.6	6.3	7.9	10.3
16	0.2	0.4	1.1	2.1	3.1	4.3	6.2	8.0	8.0	6.3	7.9	10.3
17	0.2	0.4	1.1	2.2	3.3	4.6	6.6	8.5	8.5	6.3	7.9	10.3
18	0.2	0.4	1.1	2.2	3.5	4.9	7.0	8.9	8.9	6.3	7.9	10.3
19	0.1	0.4	1.1	2.3	3.7	5.2	7.4	9.4	9.4	6.3	7.9	10.3
20	0.1	0.4	1.1	2.3	3.9	5.5	7.8	9.9	9.9	6.3	7.9	10.3
21	0.1	0.4	1.0	2.4	4.1	5.8	8.2	10.4	10.4	6.3	7.9	10.3
22	0.1	0.4	1.0	2.4	4.3	6.2	8.7	11.0	11.0	6.3	7.9	10.3
23	0.1	0.4	1.0	2.4	4.5	6.6	9.2	11.6	11.6	6.3	7.9	10.3
24	0.1	0.4	1.0	2.5	4.6	7.0	9.8	12.2	12.2	6.3	7.9	10.3
25	0.1	0.3	0.9	2.5	4.8	7.4	10.4	13.5	13.5	6.3	7.9	10.3
26	0.1	0.3	0.9	2.5	4.9	7.8	11.0	14.3	14.3	6.3	7.9	10.3
27	0.1	0.3	0.9	2.6	5.0	8.2	11.6	15.1	15.1	6.3	7.9	10.3
28	0.1	0.3	0.9	2.6	5.1	8.7	12.3	16.1	16.1	6.3	7.9	10.3
29	0.1	0.3	0.8	2.6	5.2	9.1	13.0	16.9	16.9	6.3	7.9	10.3
30	0.1	0.3	0.8	2.7	5.3	9.4	13.8	17.7	17.7	6.3	7.9	10.3
31	0.1	0.3	0.6	2.7	5.3	9.8	14.6	18.7	18.7	6.3	7.9	10.3
32	0.1	0.3	0.7	2.8	5.4	10.1	15.4	19.7	19.7	6.3	7.9	10.3
33	0.1	0.3	0.7	2.8	5.4	10.4	16.2	20.7	20.7	6.3	7.9	10.3
34	0.1	0.3	0.7	2.9	5.4	10.7	17.1	21.6	21.6	6.3	7.9	10.3
35	0.1	0.2	0.7	2.9	5.4	10.9	17.9	22.5	22.5	6.3	7.9	10.3
36	0.1	0.2	0.7	2.9	5.4	11.1	18.8	23.2	23.2	6.3	7.9	10.3
37	0.1	0.2	0.7	2.9	5.4	11.3	19.7	24.5	24.5	6.3	7.9	10.3
38	0.1	0.2	0.6	2.9	5.4	11.5	20.5	25.8	25.8	6.3	7.9	10.3
39	0.1	0.2	0.6	2.9	5.4	11.7	21.3	27.0	27.0	6.3	7.9	10.3
40	0.1	0.2	0.6	2.9	5.4	11.8	22.0	28.3	28.3	6.3	7.9	10.3
41	0.1	0.2	0.6	2.9	5.4	12.0	23.3	31.0	31.0	6.3	7.9	10.3
42	0.1	0.2	0.6	2.9	5.4	12.2	24.3	33.4	33.4	6.3	7.9	10.3
43	0.1	0.2	0.6	2.9	5.4	12.4	25.7	35.5	35.5	6.3	7.9	10.3
44	0.1	0.2	0.5	2.9	5.4	12.6	26.9	37.3	37.3	6.3	7.9	10.3
45	0.1	0.2	0.5	2.9	5.4	12.8	28.3	39.8	39.8	6.3	7.9	10.3
46	0.1	0.2	0.5	2.9	5.4	13.0	29.7	42.1	42.1	6.3	7.9	10.3
47	0.1	0.2	0.5	2.9	5.4	13.2	31.0	44.5	44.5	6.3	7.9	10.3
48	0.1	0.2	0.5	2.9	5.4	13.4	32.2	46.9	46.9	6.3	7.9	10.3
49	0.1	0.2	0.5	2.9	5.4	13.6	33.4	49.4	49.4	6.3	7.9	10.3
50	0.1	0.2	0.4	2.9	5.4	13.8	34.6	51.8	51.8	6.3	7.9	10.3

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB REF 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 22 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7					BAND CENTER FREQUENCY, M7					BAND CENTER FREQUENCY, M7				
	63	125	250	500	1000	2000	4000	8000	16000	31500	63	125	250	500	1000
1	0.2	0.4	0.7	0.9	1.2	1.8	2.9	4.0	5.1	6.3	0.1	0.2	0.4	1.2	3.5
2	0.2	0.5	0.8	1.0	1.3	1.9	3.0	4.2	5.2	6.3	0.1	0.2	0.4	1.2	3.5
3	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.4	5.3	6.3	0.1	0.2	0.4	1.1	3.4
4	0.2	0.5	0.9	1.1	1.5	2.1	3.4	4.6	5.4	6.3	0.1	0.2	0.4	1.1	3.3
5	0.2	0.5	0.9	1.2	1.6	2.3	3.5	4.9	5.5	6.3	0.1	0.2	0.4	1.1	3.2
6	0.2	0.5	0.9	1.3	1.7	2.4	3.7	5.1	5.6	6.3	0.1	0.2	0.4	1.1	3.1
7	0.2	0.5	0.9	1.4	1.8	2.6	4.0	5.3	5.7	6.3	0.1	0.2	0.4	1.0	3.0
8	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.4	5.8	6.3	0.1	0.2	0.4	1.0	2.9
9	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.5	5.9	6.3	0.1	0.2	0.4	1.0	2.8
10	0.2	0.5	1.0	1.6	2.2	3.1	4.7	6.2	6.0	6.3	0.1	0.2	0.4	1.0	2.7
11	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.5	6.1	6.3	0.1	0.2	0.4	0.9	2.7
12	0.2	0.5	1.1	1.8	2.6	3.5	5.2	6.8	6.3	6.3	0.1	0.2	0.4	0.9	2.6
13	0.2	0.5	1.1	1.9	2.7	3.8	5.5	7.2	6.4	6.3	0.1	0.2	0.4	0.9	2.5
14	0.2	0.5	1.1	2.0	2.9	4.0	5.8	7.6	6.4	6.3	0.1	0.2	0.4	0.9	2.4
15	0.2	0.4	1.1	2.1	3.1	4.3	6.2	8.0	6.6	6.3	0.1	0.2	0.4	0.9	2.4
16	0.2	0.4	1.1	2.1	3.3	4.5	6.5	8.4	6.6	6.3	0.1	0.2	0.4	0.9	2.3
17	0.2	0.4	1.1	2.2	3.5	4.8	6.9	8.8	6.7	6.3	0.1	0.2	0.4	0.9	2.3
18	0.1	0.4	1.1	2.3	3.7	5.1	7.3	9.2	6.8	6.3	0.1	0.2	0.4	0.9	2.2
19	0.1	0.4	1.1	2.3	3.9	5.4	7.7	9.8	6.9	6.3	0.1	0.2	0.4	0.9	2.2
20	0.1	0.4	1.0	2.3	4.1	5.8	8.2	10.3	7.0	6.3	0.1	0.2	0.4	0.9	2.1
21	0.1	0.4	1.0	2.4	4.3	6.2	8.7	10.9	7.1	6.3	0.1	0.2	0.4	0.9	2.1
22	0.1	0.4	1.0	2.4	4.4	6.4	9.2	11.5	7.2	6.3	0.1	0.2	0.4	0.9	2.1
23	0.1	0.3	1.0	2.4	4.6	6.7	9.7	12.1	7.4	6.3	0.1	0.2	0.4	0.9	2.0
24	0.1	0.3	0.9	2.4	4.7	7.0	10.3	12.8	7.4	6.3	0.1	0.2	0.4	0.9	2.0
25	0.1	0.3	0.9	2.4	4.8	7.8	10.9	13.5	7.5	6.3	0.1	0.2	0.4	0.9	2.0
26	0.1	0.3	0.9	2.4	4.9	8.2	11.5	14.2	7.6	6.3	0.1	0.2	0.4	0.9	2.0
27	0.1	0.3	0.9	2.3	5.0	8.6	12.2	15.0	7.7	6.3	0.1	0.2	0.4	0.9	2.0
28	0.1	0.3	0.8	2.2	5.1	9.0	12.9	15.8	7.8	6.3	0.1	0.2	0.4	0.9	2.0
29	0.1	0.3	0.8	2.2	5.2	9.4	13.7	16.7	7.9	6.3	0.1	0.2	0.4	0.9	2.0
30	0.1	0.3	0.8	2.1	5.3	9.7	14.5	17.6	8.0	6.3	0.1	0.2	0.5	0.9	2.0
31	0.1	0.3	0.8	2.1	5.3	10.0	15.4	18.6	8.1	6.3	0.1	0.2	0.5	0.9	1.9
32	0.1	0.3	0.7	2.0	5.3	10.3	16.2	19.7	8.2	6.3	0.1	0.2	0.5	0.9	1.9
33	0.1	0.2	0.7	2.0	5.3	10.6	17.0	20.8	8.3	6.3	0.1	0.2	0.5	0.9	1.9
34	0.1	0.2	0.7	2.0	5.3	10.8	17.9	22.0	8.4	6.3	0.1	0.2	0.5	0.9	1.9
35	0.1	0.2	0.7	1.9	5.2	11.0	18.7	23.2	8.5	6.3	0.1	0.2	0.5	1.0	1.9
36	0.1	0.2	0.7	1.9	5.0	11.2	19.6	24.5	8.6	6.3	0.1	0.2	0.5	1.0	1.9
37	0.1	0.2	0.6	1.8	4.9	11.4	20.4	25.7	8.7	6.3	0.1	0.2	0.5	1.0	1.9
38	0.1	0.2	0.6	1.8	4.8	11.6	21.1	26.9	8.8	6.3	0.1	0.2	0.5	1.0	1.9
39	0.1	0.2	0.6	1.7	4.7	11.7	21.8	28.2	8.9	6.3	0.1	0.2	0.5	1.0	1.9
40	0.1	0.2	0.6	1.7	4.6	11.8	22.5	29.6	9.0	6.3	0.1	0.2	0.5	1.0	1.9
41	0.1	0.2	0.6	1.6	4.5	11.8	23.1	30.9	9.1	6.3	0.1	0.2	0.5	1.0	1.9
42	0.1	0.2	0.5	1.6	4.4	11.8	23.6	32.1	9.2	6.3	0.1	0.2	0.5	1.0	1.9
43	0.1	0.2	0.5	1.5	4.3	11.7	24.1	33.2	9.3	6.3	0.1	0.2	0.5	1.0	1.9
44	0.1	0.2	0.5	1.5	4.2	11.4	24.6	34.3	9.4	6.3	0.1	0.2	0.5	1.1	1.9
45	0.1	0.2	0.5	1.4	4.1	11.1	25.0	35.3	9.5	6.3	0.1	0.2	0.5	1.1	1.9
46	0.1	0.2	0.5	1.4	4.0	10.9	25.4	36.2	9.6	6.3	0.1	0.2	0.5	1.1	1.9
47	0.1	0.2	0.5	1.4	3.9	10.7	25.8	37.0	9.7	6.3	0.1	0.2	0.5	1.1	1.9
48	0.1	0.2	0.4	1.3	3.8	10.5	26.1	37.8	9.8	6.3	0.1	0.2	0.5	1.1	1.9
49	0.1	0.2	0.4	1.3	3.7	10.3	26.4	38.5	9.9	6.3	0.1	0.2	0.6	1.1	1.9
50	0.1	0.2	0.4	1.3	3.6	10.1	26.5	39.2	10.0	6.3	0.1	0.2	0.6	1.1	1.9

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE RANGES OF NOISE AS A FUNCTION OF TEMPERATURE AND 23 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, MZ					RAND CENTER FREQUENCY, MZ					RAND CENTER FREQUENCY, MZ					RAND CENTER FREQUENCY, MZ				
	63	125	250	500	1000	2000	4000	8000	16000	31500	63	125	250	500	1000	2000	4000	8000	16000	31500
1	0.2	0.5	0.7	0.9	1.3	1.9	3.0	4.2	5.1	5.2	0.1	0.2	0.4	1.2	3.4	9.6	25.9	40.0	50.0	50.0
2	0.2	0.5	0.7	1.0	1.4	2.0	3.1	4.4	5.2	5.3	0.1	0.2	0.4	1.1	3.3	9.2	25.5	40.5	50.5	50.5
3	0.2	0.5	0.8	1.1	1.5	2.2	3.3	4.6	5.3	5.4	0.1	0.2	0.4	1.1	3.2	9.2	25.9	40.9	50.9	50.9
4	0.2	0.5	0.8	1.2	1.6	2.2	3.5	4.8	5.4	5.5	0.1	0.2	0.4	1.1	3.1	9.0	26.4	41.2	51.2	51.2
5	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0	5.5	5.6	0.1	0.2	0.4	1.0	3.0	8.8	26.9	41.7	51.7	51.7
6	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.3	5.7	5.8	0.1	0.2	0.4	1.0	2.9	8.6	27.5	42.2	52.2	52.2
7	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5	5.9	6.0	0.1	0.2	0.4	1.0	2.8	8.4	28.1	42.7	52.7	52.7
8	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.8	6.1	6.2	0.1	0.2	0.4	1.0	2.7	8.2	28.7	43.2	53.2	53.2
9	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1	6.4	6.5	0.1	0.2	0.4	0.9	2.7	8.0	29.3	43.7	53.7	53.7
10	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.4	6.7	6.8	0.1	0.2	0.4	0.9	2.6	7.8	29.9	44.2	54.2	54.2
11	0.2	0.5	1.1	1.8	2.5	3.5	5.1	6.8	7.1	7.2	0.1	0.2	0.4	0.9	2.6	7.6	30.5	44.7	54.7	54.7
12	0.2	0.5	1.1	1.9	2.7	3.7	5.4	7.1	7.4	7.5	0.1	0.2	0.4	0.9	2.5	7.5	31.1	45.2	55.2	55.2
13	0.2	0.4	1.1	2.0	2.9	3.9	5.8	7.5	7.8	7.9	0.1	0.2	0.4	0.9	2.4	7.3	31.7	45.7	55.7	55.7
14	0.2	0.4	1.1	2.1	3.1	4.2	6.1	7.9	8.2	8.3	0.1	0.2	0.4	0.9	2.4	7.1	32.3	46.2	56.2	56.2
15	0.2	0.4	1.1	2.1	3.3	4.5	6.4	8.3	8.6	8.7	0.1	0.2	0.4	0.9	2.3	6.9	32.9	46.7	56.7	56.7
16	0.1	0.4	1.1	2.2	3.5	4.8	6.8	8.7	9.0	9.1	0.1	0.2	0.4	0.9	2.2	6.6	33.5	47.2	57.2	57.2
17	0.1	0.4	1.1	2.2	3.7	5.1	7.2	9.2	9.5	9.6	0.1	0.2	0.4	0.9	2.2	6.4	34.1	47.7	57.7	57.7
18	0.1	0.4	1.0	2.3	3.9	5.4	7.6	9.7	10.0	10.1	0.1	0.2	0.4	0.8	2.2	6.2	34.7	48.2	58.2	58.2
19	0.1	0.4	1.0	2.3	4.1	5.7	8.1	10.2	10.5	10.6	0.1	0.2	0.4	0.8	2.1	6.0	35.3	48.7	58.7	58.7
20	0.1	0.4	1.0	2.4	4.2	6.1	8.6	10.8	11.1	11.2	0.1	0.2	0.4	0.8	2.1	5.8	35.9	49.2	59.2	59.2
21	0.1	0.4	1.0	2.4	4.4	6.5	9.1	11.4	11.7	11.8	0.1	0.2	0.4	0.8	2.0	5.6	36.5	49.7	59.7	59.7
22	0.1	0.4	1.0	2.4	4.5	6.9	9.6	12.0	12.3	12.4	0.1	0.2	0.4	0.8	2.0	5.4	37.1	50.2	60.2	60.2
23	0.1	0.3	0.9	2.4	4.7	7.3	10.2	12.7	13.0	13.1	0.1	0.2	0.4	0.8	2.0	5.2	37.7	50.7	60.7	60.7
24	0.1	0.3	0.9	2.4	4.8	7.7	10.8	13.4	13.7	13.8	0.1	0.2	0.4	0.8	2.0	5.0	38.3	51.2	61.2	61.2
25	0.1	0.3	0.9	2.4	4.9	8.1	11.4	14.1	14.4	14.5	0.1	0.2	0.4	0.8	2.0	4.8	38.9	51.7	61.7	61.7
26	0.1	0.3	0.9	2.4	5.0	8.5	12.1	14.9	15.2	15.3	0.1	0.2	0.4	0.8	1.9	4.6	39.5	52.2	62.2	62.2
27	0.1	0.3	0.8	2.2	5.1	8.9	12.9	15.7	16.0	16.1	0.1	0.2	0.4	0.8	1.9	4.4	40.1	52.7	62.7	62.7
28	0.1	0.3	0.8	2.2	5.2	9.3	13.6	16.6	16.9	17.0	0.1	0.2	0.4	0.8	1.9	4.2	40.7	53.2	63.2	63.2
29	0.1	0.3	0.8	2.1	5.3	9.6	14.4	17.5	17.8	17.9	0.1	0.2	0.4	0.8	1.9	4.0	41.3	53.7	63.7	63.7
30	0.1	0.3	0.7	2.1	5.3	9.9	15.3	18.5	18.8	18.9	0.1	0.2	0.5	0.9	1.9	3.8	41.9	54.2	64.2	64.2
31	0.1	0.3	0.7	2.0	5.3	10.2	16.1	19.4	19.7	19.8	0.1	0.2	0.5	0.9	1.9	3.6	42.5	54.7	64.7	64.7
32	0.1	0.2	0.7	2.0	5.3	10.5	16.9	20.7	21.0	21.1	0.1	0.2	0.5	0.9	1.9	3.4	43.1	55.2	65.2	65.2
33	0.1	0.2	0.7	2.0	5.2	10.7	17.7	21.8	22.1	22.2	0.1	0.2	0.5	0.9	1.9	3.2	43.7	55.7	65.7	65.7
34	0.1	0.2	0.7	1.9	5.1	10.9	18.6	23.1	23.4	23.5	0.1	0.2	0.5	0.9	1.9	3.0	44.3	56.2	66.2	66.2
35	0.1	0.2	0.6	1.8	4.9	11.1	19.5	24.3	24.6	24.7	0.1	0.2	0.5	1.0	1.9	2.8	44.9	56.7	66.7	66.7
36	0.1	0.2	0.6	1.7	4.8	11.3	20.3	25.6	25.9	26.0	0.1	0.2	0.5	1.0	2.0	2.6	45.5	57.2	67.2	67.2
37	0.1	0.2	0.6	1.7	4.7	11.4	21.0	26.8	27.1	27.2	0.1	0.2	0.5	1.0	2.0	2.4	46.1	57.7	67.7	67.7
38	0.1	0.2	0.6	1.7	4.6	11.6	21.7	27.9	28.2	28.3	0.1	0.2	0.5	1.0	2.0	2.2	46.7	58.2	68.2	68.2
39	0.1	0.2	0.6	1.6	4.5	11.7	22.4	29.1	29.4	29.5	0.1	0.2	0.5	1.0	2.0	2.0	47.3	58.7	68.7	68.7
40	0.1	0.2	0.5	1.6	4.4	11.7	22.9	30.7	31.0	31.1	0.1	0.3	0.5	1.0	2.0	1.8	47.9	59.2	69.2	69.2
41	0.1	0.2	0.5	1.5	4.3	11.5	23.4	31.9	32.2	32.3	0.1	0.3	0.5	1.0	2.1	1.6	48.5	59.7	69.7	69.7
42	0.1	0.2	0.5	1.5	4.2	11.2	24.4	33.0	33.3	33.4	0.1	0.3	0.5	1.0	2.1	1.4	49.1	60.2	70.2	70.2
43	0.1	0.2	0.5	1.5	4.2	11.2	24.4	34.0	34.3	34.4	0.1	0.3	0.5	1.0	2.1	1.2	49.7	60.7	70.7	70.7
44	0.1	0.2	0.5	1.4	4.1	10.9	24.3	35.0	35.3	35.4	0.1	0.3	0.5	1.1	2.1	1.0	50.3	61.2	71.2	71.2
45	0.1	0.2	0.5	1.4	4.0	10.7	25.2	36.4	36.7	36.8	0.1	0.3	0.5	1.1	2.2	0.8	50.9	61.7	71.7	71.7
46	0.1	0.2	0.5	1.3	3.9	10.5	25.5	37.7	38.0	38.1	0.1	0.3	0.5	1.1	2.2	0.6	51.5	62.2	72.2	72.2
47	0.1	0.2	0.4	1.3	3.8	10.3	25.4	39.5	39.8	39.9	0.1	0.3	0.5	1.1	2.2	0.4	52.1	62.7	72.7	72.7
48	0.1	0.2	0.4	1.3	3.7	10.1	26.1	40.2	40.5	40.6	0.1	0.3	0.5	1.1	2.2	0.2	52.7	63.2	73.2	73.2
49	0.1	0.2	0.4	1.2	3.6	9.9	26.2	41.8	42.1	42.2	0.1	0.3	0.6	1.1	2.2	0.1	53.3	63.7	73.7	73.7
50	0.1	0.2	0.4	1.2	3.5	9.8	26.1	43.4	43.7	43.8	0.1	0.3	0.6	1.1	2.3	0.0	53.9	64.2	74.2	74.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT @ 30° FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 24 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ				
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.2	0.5	0.7	1.0	1.4	1.9	3.1	4.3			51	0.1	0.2	0.4	1.1	3.2	9.2	25.1	40.1	40.1
2	0.2	0.5	0.6	1.1	1.4	2.1	3.3	4.5			52	0.1	0.2	0.4	1.1	3.2	9.0	24.4	40.5	40.5
3	0.2	0.5	0.6	1.1	1.5	2.2	3.4	4.7			53	0.1	0.2	0.4	1.0	3.1	8.6	24.0	40.7	40.7
4	0.2	0.5	0.9	1.2	1.7	2.3	3.6	5.0			54	0.1	0.2	0.4	1.0	3.0	8.6	23.5	40.7	40.7
5	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2			55	0.1	0.2	0.4	1.0	2.9	8.4	23.1	40.5	40.5
6	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5			56	0.1	0.2	0.4	1.0	2.8	8.2	22.7	39.9	39.9
7	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7			57	0.1	0.2	0.4	0.9	2.8	8.0	22.4	39.1	39.1
8	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0			58	0.1	0.2	0.4	0.9	2.7	7.8	22.1	38.3	38.3
9	0.2	0.5	1.0	1.7	2.3	3.2	4.8	6.3			59	0.1	0.2	0.4	0.9	2.6	7.7	21.7	37.6	37.6
10	0.2	0.5	1.0	1.8	2.5	3.4	5.1	6.7			60	0.1	0.2	0.4	0.9	2.5	7.5	21.3	37.0	37.0
11	0.2	0.5	1.1	1.9	2.6	3.6	5.4	7.0			61	0.1	0.2	0.4	0.9	2.5	7.3	20.9	36.3	36.3
12	0.2	0.4	1.1	2.0	2.8	3.9	5.7	7.4			62	0.1	0.2	0.4	0.9	2.4	7.1	20.5	35.8	35.8
13	0.2	0.4	1.1	2.0	3.0	4.1	6.0	7.8			63	0.1	0.2	0.4	0.9	2.3	6.9	20.1	35.3	35.3
14	0.2	0.4	1.1	2.1	3.2	4.4	6.4	8.2			64	0.1	0.2	0.4	0.8	2.3	6.8	19.7	34.8	34.8
15	0.1	0.4	1.1	2.2	3.4	4.7	6.7	8.6			65	0.1	0.2	0.4	0.8	2.2	6.6	19.3	34.3	34.3
16	0.1	0.4	1.1	2.2	3.6	5.0	7.1	9.1			66	0.1	0.2	0.4	0.8	2.2	6.5	18.8	33.7	33.7
17	0.1	0.4	1.0	2.3	3.8	5.3	7.5	9.6			67	0.1	0.2	0.4	0.8	2.1	6.3	18.4	33.1	33.1
18	0.1	0.4	1.0	2.3	4.0	5.7	8.0	10.1			68	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.5	32.5
19	0.1	0.4	1.0	2.3	4.2	6.0	8.5	10.7			69	0.1	0.2	0.4	0.8	2.1	6.0	17.7	31.8	31.8
20	0.1	0.4	1.0	2.4	4.3	6.4	8.9	11.2			70	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.2	31.2
21	0.1	0.3	0.9	2.4	4.5	6.8	9.5	11.9			71	0.1	0.2	0.4	0.8	2.0	5.7	17.0	30.6	30.6
22	0.1	0.3	0.9	2.4	4.6	7.2	10.1	12.5			72	0.1	0.2	0.4	0.8	2.0	5.6	16.6	30.0	30.0
23	0.1	0.3	0.9	2.4	4.7	7.6	10.7	13.2			73	0.1	0.2	0.4	0.8	1.9	5.4	16.2	29.4	29.4
24	0.1	0.3	0.9	2.3	4.8	8.0	11.3	14.0			74	0.1	0.2	0.4	0.9	1.9	5.3	15.8	28.8	28.8
25	0.1	0.3	0.8	2.3	4.9	8.4	12.0	14.7			75	0.1	0.2	0.4	0.9	1.9	5.2	15.5	28.2	28.2
26	0.1	0.3	0.8	2.2	5.0	9.0	12.7	15.6			76	0.1	0.2	0.4	0.9	1.9	5.1	15.1	27.7	27.7
27	0.1	0.3	0.8	2.1	5.1	9.2	13.5	16.4			77	0.1	0.2	0.4	0.9	1.9	5.0	14.8	27.2	27.2
28	0.1	0.3	0.8	2.1	5.2	9.5	14.3	17.4			78	0.1	0.2	0.4	0.9	1.9	4.9	14.6	26.6	26.6
29	0.1	0.3	0.7	2.0	5.2	9.8	15.1	18.3			79	0.1	0.2	0.4	0.9	1.9	4.8	14.2	26.0	26.0
30	0.1	0.2	0.7	2.0	5.2	10.1	15.9	19.4			80	0.1	0.2	0.5	0.9	1.9	4.7	13.9	25.4	25.4
31	0.1	0.2	0.7	2.0	5.2	10.4	16.7	20.5			81	0.1	0.2	0.5	0.9	1.9	4.7	13.6	24.9	24.9
32	0.1	0.2	0.7	1.9	5.1	10.6	17.6	21.7			82	0.1	0.2	0.5	0.9	1.9	4.6	13.2	24.4	24.4
33	0.1	0.2	0.7	1.9	5.0	10.8	18.5	22.9			83	0.1	0.2	0.5	0.9	1.9	4.5	12.9	23.9	23.9
34	0.1	0.2	0.6	1.8	4.9	11.0	19.3	24.2			84	0.1	0.2	0.5	0.9	1.9	4.5	12.6	23.5	23.5
35	0.1	0.2	0.6	1.8	4.8	11.2	20.1	25.4			85	0.1	0.2	0.5	1.0	1.9	4.4	12.4	23.0	23.0
36	0.1	0.2	0.6	1.7	4.6	11.3	20.8	26.6			86	0.1	0.2	0.5	1.0	1.9	4.4	12.1	22.5	22.5
37	0.1	0.2	0.6	1.7	4.5	11.5	21.5	27.9			87	0.1	0.2	0.5	1.0	2.0	4.4	11.9	22.0	22.0
38	0.1	0.2	0.6	1.6	4.5	11.5	22.1	29.2			88	0.1	0.2	0.5	1.0	2.0	4.4	11.7	21.5	21.5
39	0.1	0.2	0.5	1.6	4.4	11.6	22.7	30.5			89	0.1	0.2	0.5	1.0	2.0	4.4	11.5	21.0	21.0
40	0.1	0.2	0.5	1.5	4.3	11.5	23.2	31.6			90	0.1	0.3	0.5	1.0	2.0	4.3	11.3	20.5	20.5
41	0.1	0.2	0.5	1.5	4.2	11.3	23.7	32.7			91	0.1	0.3	0.5	1.0	2.1	4.3	11.1	20.1	20.1
42	0.1	0.2	0.5	1.4	4.1	11.1	24.1	33.8			92	0.1	0.3	0.5	1.0	2.1	4.3	10.9	19.7	19.7
43	0.1	0.2	0.5	1.4	4.0	10.8	24.5	34.7			93	0.1	0.3	0.5	1.0	2.1	4.3	10.6	19.4	19.4
44	0.1	0.2	0.5	1.3	3.9	10.6	24.9	35.6			94	0.1	0.3	0.5	1.1	2.1	4.3	10.7	19.0	19.0
45	0.1	0.2	0.4	1.3	3.8	10.3	25.3	36.4			95	0.1	0.3	0.5	1.1	2.2	4.4	10.5	18.7	18.7
46	0.1	0.2	0.4	1.3	3.7	10.1	25.5	37.1			96	0.1	0.3	0.5	1.1	2.2	4.4	10.4	18.4	18.4
47	0.1	0.2	0.4	1.2	3.6	10.0	25.8	37.8			97	0.1	0.3	0.5	1.1	2.2	4.5	10.4	18.1	18.1
48	0.1	0.2	0.4	1.2	3.5	9.8	25.8	38.5			98	0.1	0.3	0.5	1.1	2.2	4.5	10.3	17.8	17.8
49	0.1	0.2	0.4	1.2	3.4	9.6	25.8	39.0			99	0.1	0.3	0.6	1.1	2.2	4.6	10.3	17.6	17.6
50	0.1	0.2	0.4	1.1	3.3	9.4	25.5	39.6			100	0.1	0.3	0.6	1.1	2.3	4.6	10.3	17.4	17.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE RANGES OF NOISE AS A FUNCTION OF TEMPERATURE FOR 25 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, M ²				
	63	125	250	500	1000	2000	4000	8000		
1	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.4	51	
2	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.6	52	
3	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9	53	
4	0.2	0.5	0.9	1.3	1.7	2.4	3.8	5.1	54	
5	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4	55	
6	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.6	56	
7	0.2	0.5	1.0	1.6	2.1	3.0	4.4	5.9	57	
8	0.2	0.5	1.0	1.7	2.3	3.2	4.7	6.2	58	
9	0.2	0.5	1.0	1.8	2.4	3.4	5.0	6.6	59	
10	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9	60	
11	0.2	0.4	1.1	1.9	2.8	3.8	5.6	7.3	61	
12	0.2	0.4	1.1	2.0	3.0	4.1	5.9	7.6	62	
13	0.2	0.4	1.1	2.1	3.2	4.3	6.3	8.1	63	
14	0.1	0.4	1.1	2.1	3.4	4.6	6.6	8.5	64	
15	0.1	0.4	1.1	2.2	3.5	4.9	7.0	9.0	65	
16	0.1	0.4	1.0	2.2	3.8	5.2	7.4	9.4	66	
17	0.1	0.4	1.0	2.3	3.9	5.6	7.9	10.0	67	
18	0.1	0.4	1.0	2.3	4.1	5.9	8.3	10.5	68	
19	0.1	0.3	0.9	2.3	4.3	6.3	8.8	11.1	69	
20	0.1	0.3	0.9	2.4	4.4	6.7	9.4	11.7	70	
21	0.1	0.3	0.9	2.4	4.6	7.1	9.9	12.4	71	
22	0.1	0.3	0.9	2.3	4.7	7.5	10.5	13.0	72	
23	0.1	0.3	0.9	2.3	4.8	7.9	11.2	13.8	73	
24	0.1	0.3	0.8	2.2	4.9	8.3	11.8	14.6	74	
25	0.1	0.3	0.8	2.2	5.0	8.7	12.5	15.4	75	
26	0.1	0.3	0.8	2.1	5.0	9.4	13.3	16.2	76	
27	0.1	0.3	0.8	2.1	5.1	9.4	14.1	17.2	77	
28	0.1	0.3	0.7	2.0	5.2	9.7	15.0	18.1	78	
29	0.1	0.2	0.7	2.0	5.2	10.0	15.7	19.2	79	
30	0.1	0.2	0.7	1.9	5.1	10.3	16.4	20.3	80	
31	0.1	0.2	0.7	1.9	5.1	10.5	17.4	21.4	81	
32	0.1	0.2	0.6	1.8	5.0	10.7	18.3	22.7	82	
33	0.1	0.2	0.6	1.8	4.8	10.9	19.1	23.9	83	
34	0.1	0.2	0.6	1.7	4.7	11.0	19.9	25.1	84	
35	0.1	0.2	0.6	1.7	4.6	11.2	20.6	26.4	85	
36	0.1	0.2	0.6	1.6	4.5	11.3	21.3	27.7	86	
37	0.1	0.2	0.6	1.6	4.4	11.4	21.5	29.0	87	
38	0.1	0.2	0.5	1.5	4.3	11.4	22.5	30.2	88	
39	0.1	0.2	0.5	1.5	4.2	11.4	23.0	31.4	89	
40	0.1	0.2	0.5	1.5	4.1	11.2	23.4	32.5	90	
41	0.1	0.2	0.5	1.4	4.0	10.9	23.9	33.5	91	
42	0.1	0.2	0.5	1.4	3.9	10.6	24.3	34.4	92	
43	0.1	0.2	0.5	1.3	3.8	10.4	24.7	35.3	93	
44	0.1	0.2	0.4	1.3	3.7	10.2	25.0	36.1	94	
45	0.1	0.2	0.4	1.3	3.6	10.0	25.3	36.8	95	
46	0.1	0.2	0.4	1.2	3.5	9.8	25.5	37.5	96	
47	0.1	0.2	0.4	1.2	3.4	9.7	25.4	38.1	97	
48	0.1	0.2	0.4	1.2	3.4	9.5	25.4	38.7	98	
49	0.1	0.2	0.4	1.1	3.3	9.3	25.2	39.2	99	
50	0.1	0.2	0.4	1.1	3.2	9.1	24.7	39.6	100	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB DEF 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 26 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7					BAND CENTER FREQUENCY, M7					BAND CENTER FREQUENCY, M7									
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.2	0.5	0.8	1.1	1.5	2.1	3.3	4.6	51	0.1	0.2	0.4	1.0	3.0	8.6	23.3	39.7			
2	0.2	0.5	0.9	1.2	1.6	2.2	3.5	4.9	52	0.1	0.2	0.4	1.0	2.9	8.4	22.9	39.7			
3	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0	53	0.1	0.2	0.4	1.0	2.8	8.2	22.5	39.4			
4	0.2	0.5	0.9	1.3	1.8	2.6	3.9	5.3	54	0.1	0.2	0.4	0.9	2.7	8.0	22.1	38.8			
5	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5	55	0.1	0.2	0.4	0.9	2.7	7.8	21.7	37.8			
6	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.8	56	0.1	0.2	0.4	0.9	2.6	7.6	21.4	37.1			
7	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1	57	0.1	0.2	0.4	0.9	2.5	7.4	21.0	36.5			
8	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.4	58	0.1	0.2	0.4	0.9	2.4	7.2	20.6	35.8			
9	0.2	0.5	1.0	1.8	2.5	3.5	5.2	6.8	59	0.1	0.2	0.4	0.8	2.4	7.1	20.2	35.2			
10	0.2	0.5	1.0	1.9	2.7	3.7	5.5	7.1	60	0.1	0.2	0.4	0.8	2.3	6.9	19.8	34.7			
11	0.2	0.4	1.1	2.0	2.9	4.0	5.8	7.5	61	0.1	0.2	0.4	0.8	2.2	6.7	19.4	34.2			
12	0.2	0.4	1.1	2.1	3.1	4.2	6.1	7.9	62	0.1	0.2	0.4	0.8	2.2	6.5	19.0	33.7			
13	0.1	0.4	1.1	2.1	3.3	4.5	6.5	8.4	63	0.1	0.2	0.4	0.8	2.1	6.4	18.6	33.2			
14	0.1	0.4	1.1	2.2	3.5	4.8	6.9	8.8	64	0.1	0.2	0.4	0.8	2.1	6.2	18.2	32.6			
15	0.1	0.4	1.0	2.2	3.7	5.1	7.3	9.3	65	0.1	0.2	0.4	0.8	2.1	6.1	17.8	32.0			
16	0.1	0.4	1.0	2.2	3.9	5.5	7.7	9.8	66	0.1	0.2	0.4	0.8	2.0	5.9	17.4	31.4			
17	0.1	0.4	1.0	2.3	4.1	5.8	8.2	10.3	67	0.1	0.2	0.4	0.8	2.0	5.8	17.0	30.7			
18	0.1	0.3	0.9	2.3	4.2	6.2	8.7	10.9	68	0.1	0.2	0.4	0.8	1.9	5.5	16.4	29.5			
19	0.1	0.3	0.9	2.3	4.4	6.6	9.2	11.5	69	0.1	0.2	0.4	0.8	1.9	5.3	16.0	28.9			
20	0.1	0.3	0.9	2.3	4.5	7.0	9.8	12.2	70	0.1	0.2	0.4	0.8	1.9	5.2	15.6	28.3			
21	0.1	0.3	0.9	2.3	4.6	7.4	10.4	12.9	71	0.1	0.2	0.4	0.8	1.9	5.1	15.2	27.7			
22	0.1	0.3	0.9	2.3	4.7	7.8	11.0	13.6	72	0.1	0.2	0.4	0.8	1.9	5.0	14.9	27.2			
23	0.1	0.3	0.8	2.2	4.8	8.2	11.7	14.3	73	0.1	0.2	0.4	0.8	1.9	4.9	14.6	26.7			
24	0.1	0.3	0.8	2.2	4.9	8.6	12.4	15.2	74	0.1	0.2	0.4	0.9	1.8	4.8	14.3	26.2			
25	0.1	0.3	0.8	2.1	5.0	9.0	13.1	16.0	75	0.1	0.2	0.4	0.9	1.8	4.7	14.0	25.6			
26	0.1	0.3	0.8	2.0	5.1	9.3	13.9	16.9	76	0.1	0.2	0.4	0.9	1.8	4.6	13.7	25.0			
27	0.1	0.3	0.7	2.0	5.1	9.6	14.8	17.9	77	0.1	0.2	0.4	0.9	1.8	4.5	13.4	24.4			
28	0.1	0.2	0.7	2.0	5.1	9.9	15.5	18.9	78	0.1	0.2	0.4	0.9	1.8	4.5	13.0	23.9			
29	0.1	0.2	0.7	1.9	5.1	10.1	16.4	20.0	79	0.1	0.2	0.5	0.9	1.8	4.4	12.7	23.4			
30	0.1	0.2	0.7	1.9	5.0	10.4	17.2	21.2	80	0.1	0.2	0.5	0.9	1.8	4.4	12.4	23.0			
31	0.1	0.2	0.6	1.8	4.9	10.6	18.1	22.4	81	0.1	0.2	0.5	0.9	1.8	4.3	12.1	22.6			
32	0.1	0.2	0.6	1.8	4.8	10.8	18.9	23.7	82	0.1	0.2	0.5	0.9	1.9	4.3	11.9	22.1			
33	0.1	0.2	0.6	1.7	4.7	10.9	19.7	24.8	83	0.1	0.2	0.5	0.9	1.9	4.3	11.6	21.6			
34	0.1	0.2	0.6	1.7	4.5	11.1	20.4	26.1	84	0.1	0.2	0.5	0.9	1.9	4.3	11.4	21.1			
35	0.1	0.2	0.6	1.6	4.4	11.2	21.1	27.4	85	0.1	0.2	0.5	1.0	2.0	4.3	11.2	20.6			
36	0.1	0.2	0.5	1.6	4.4	11.3	21.7	28.7	86	0.1	0.2	0.5	1.0	2.0	4.2	11.0	20.1			
37	0.1	0.2	0.5	1.5	4.3	11.3	22.3	29.9	87	0.1	0.2	0.5	1.0	2.0	4.2	10.8	19.7			
38	0.1	0.2	0.5	1.5	4.2	11.2	22.8	31.1	88	0.1	0.2	0.5	1.0	2.0	4.2	10.7	19.3			
39	0.1	0.2	0.5	1.4	4.1	11.1	23.2	32.1	89	0.1	0.2	0.5	1.0	2.0	4.2	10.6	19.0			
40	0.1	0.2	0.5	1.4	4.0	10.8	23.6	33.1	90	0.1	0.3	0.5	1.0	2.1	4.2	10.4	18.6			
41	0.1	0.2	0.5	1.4	3.9	10.5	24.1	34.1	91	0.1	0.3	0.5	1.0	2.1	4.2	10.3	18.3			
42	0.1	0.2	0.4	1.3	3.8	10.3	24.4	35.0	92	0.1	0.3	0.5	1.0	2.1	4.3	10.2	18.0			
43	0.1	0.2	0.4	1.3	3.7	10.1	24.7	35.7	93	0.1	0.3	0.5	1.0	2.1	4.3	10.1	17.7			
44	0.1	0.2	0.4	1.2	3.6	9.9	25.0	36.4	94	0.1	0.3	0.5	1.1	2.2	4.4	10.1	17.4			
45	0.1	0.2	0.4	1.2	3.5	9.7	25.2	37.1	95	0.1	0.3	0.5	1.1	2.2	4.4	10.1	17.2			
46	0.1	0.2	0.4	1.2	3.4	9.5	25.2	37.7	96	0.1	0.3	0.5	1.1	2.2	4.4	10.1	17.0			
47	0.1	0.2	0.4	1.1	3.3	9.4	25.1	38.3	97	0.1	0.3	0.5	1.1	2.2	4.5	10.0	16.8			
48	0.1	0.2	0.4	1.1	3.2	9.2	24.9	38.8	98	0.1	0.3	0.5	1.1	2.2	4.5	10.0	16.6			
49	0.1	0.2	0.4	1.1	3.1	9.0	24.4	39.2	99	0.1	0.3	0.6	1.1	2.2	4.6	9.9	16.4			
50	0.1	0.2	0.4	1.0	3.1	8.8	23.8	39.6	100	0.1	0.3	0.6	1.1	2.3	4.6	9.9	16.4			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 27 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7						BAND CENTER FREQUENCY, MZ									
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.7	51	0.1	0.2	0.4	1.0	2.8	8.3	22.6
2	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9	52	0.1	0.2	0.4	0.9	2.8	8.1	22.2
3	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2	53	0.1	0.2	0.4	0.9	2.7	7.9	21.8
4	0.2	0.5	0.9	1.4	1.9	2.7	4.0	5.4	54	0.1	0.2	0.4	0.9	2.6	7.7	21.5
5	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7	55	0.1	0.2	0.4	0.9	2.6	7.5	21.1
6	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0	56	0.1	0.2	0.4	0.9	2.5	7.3	20.6
7	0.2	0.5	1.0	1.7	2.3	3.2	4.8	6.3	57	0.1	0.2	0.4	0.8	2.4	7.1	20.4
8	0.2	0.5	1.0	1.8	2.5	3.4	5.1	6.7	58	0.1	0.2	0.4	0.8	2.3	7.0	20.0
9	0.2	0.4	1.0	1.9	2.7	3.7	5.4	7.0	59	0.1	0.2	0.4	0.8	2.3	6.8	19.5
10	0.2	0.4	1.1	2.0	2.8	3.9	5.7	7.4	60	0.1	0.2	0.4	0.8	2.2	6.6	19.1
11	0.2	0.4	1.1	2.0	3.0	4.1	6.0	7.8	61	0.1	0.2	0.4	0.8	2.2	6.4	18.7
12	0.1	0.4	1.1	2.1	3.2	4.4	6.4	8.2	62	0.1	0.2	0.4	0.8	2.1	6.3	18.3
13	0.1	0.4	1.1	2.1	3.4	4.7	6.8	8.6	63	0.1	0.2	0.4	0.8	2.1	6.2	17.9
14	0.1	0.4	1.0	2.2	3.6	5.0	7.2	9.1	64	0.1	0.2	0.4	0.8	2.0	6.0	17.5
15	0.1	0.4	1.0	2.2	3.8	5.4	7.6	9.6	65	0.1	0.2	0.4	0.8	2.0	5.8	17.1
16	0.1	0.4	1.0	2.3	4.0	5.7	8.1	10.2	66	0.1	0.2	0.4	0.8	2.0	5.7	16.8
17	0.1	0.3	0.9	2.3	4.2	6.1	8.5	10.7	67	0.1	0.2	0.4	0.8	1.9	5.5	16.4
18	0.1	0.3	0.9	2.3	4.3	6.3	9.1	11.3	68	0.1	0.2	0.4	0.8	1.9	5.4	16.1
19	0.1	0.3	0.9	2.3	4.4	6.4	9.6	12.0	69	0.1	0.2	0.4	0.8	1.9	5.3	15.7
20	0.1	0.3	0.9	2.3	4.6	7.3	10.7	12.6	70	0.1	0.2	0.4	0.8	1.9	5.1	15.3
21	0.1	0.3	0.8	2.3	4.7	7.7	10.8	13.4	71	0.1	0.2	0.4	0.8	1.8	5.0	15.0
22	0.1	0.3	0.8	2.2	4.8	8.1	11.5	14.1	72	0.1	0.2	0.4	0.8	1.8	4.9	14.6
23	0.1	0.3	0.8	2.1	4.9	8.5	12.2	14.9	73	0.1	0.2	0.4	0.8	1.8	4.8	14.3
24	0.1	0.3	0.8	2.1	4.9	8.8	12.9	15.8	74	0.1	0.2	0.4	0.8	1.8	4.7	14.1
25	0.1	0.3	0.7	2.0	5.0	9.2	13.7	16.7	75	0.1	0.2	0.4	0.9	1.8	4.6	13.7
26	0.1	0.3	0.7	2.0	5.1	9.5	14.5	17.6	76	0.1	0.2	0.4	0.9	1.8	4.6	13.4
27	0.1	0.2	0.7	1.9	5.1	9.8	15.3	18.7	77	0.1	0.2	0.4	0.9	1.8	4.5	13.1
28	0.1	0.2	0.7	1.9	5.1	10.0	16.1	19.7	78	0.1	0.2	0.4	0.9	1.8	4.4	12.8
29	0.1	0.2	0.7	1.9	5.0	10.2	17.0	20.9	79	0.1	0.2	0.4	0.9	1.8	4.4	12.5
30	0.1	0.2	0.6	1.8	4.9	10.5	17.8	22.1	80	0.1	0.2	0.5	0.9	1.8	4.3	12.2
31	0.1	0.2	0.6	1.8	4.9	10.7	18.7	23.3	81	0.1	0.2	0.5	0.9	1.9	4.3	11.9
32	0.1	0.2	0.6	1.7	4.6	10.8	19.4	24.5	82	0.1	0.2	0.5	0.9	1.9	4.2	11.7
33	0.1	0.2	0.6	1.7	4.5	11.0	20.1	25.8	83	0.1	0.2	0.5	0.9	1.9	4.2	11.4
34	0.1	0.2	0.6	1.6	4.4	11.1	20.8	27.0	84	0.1	0.2	0.5	0.9	1.9	4.2	11.2
35	0.1	0.2	0.5	1.6	4.3	11.2	21.4	28.3	85	0.1	0.2	0.5	1.0	1.9	4.2	11.0
36	0.1	0.2	0.5	1.5	4.2	11.2	22.0	29.6	86	0.1	0.2	0.5	1.0	2.0	4.2	10.8
37	0.1	0.2	0.5	1.5	4.1	11.1	22.5	30.7	87	0.1	0.2	0.5	1.0	2.0	4.2	10.5
38	0.1	0.2	0.5	1.4	4.0	10.9	23.0	31.8	88	0.1	0.2	0.5	1.0	2.0	4.2	10.3
39	0.1	0.2	0.5	1.4	3.9	10.7	23.4	32.8	89	0.1	0.3	0.5	1.0	2.0	4.2	10.3
40	0.1	0.2	0.5	1.3	3.8	10.4	23.8	33.7	90	0.1	0.3	0.5	1.0	2.1	4.2	10.1
41	0.1	0.2	0.4	1.3	3.7	10.2	24.1	34.6	91	0.1	0.3	0.5	1.0	2.1	4.2	10.1
42	0.1	0.2	0.4	1.3	3.6	10.0	24.5	35.4	92	0.1	0.3	0.5	1.0	2.1	4.2	10.0
43	0.1	0.2	0.4	1.2	3.6	9.8	24.8	36.0	93	0.1	0.3	0.5	1.0	2.1	4.3	10.0
44	0.1	0.2	0.4	1.2	3.5	9.6	24.9	36.7	94	0.1	0.3	0.5	1.1	2.2	4.4	9.9
45	0.1	0.2	0.4	1.2	3.4	9.4	25.0	37.3	95	0.1	0.3	0.5	1.1	2.2	4.4	9.9
46	0.1	0.2	0.4	1.1	3.3	9.3	24.5	37.9	96	0.1	0.3	0.5	1.1	2.2	4.5	9.8
47	0.1	0.2	0.4	1.1	3.2	9.1	24.6	38.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.8
48	0.1	0.2	0.4	1.0	3.1	8.9	24.1	38.8	98	0.1	0.3	0.5	1.1	2.2	4.6	9.6
49	0.1	0.2	0.4	1.0	3.0	8.7	23.5	39.2	99	0.1	0.3	0.6	1.1	2.2	4.6	9.6
50	0.1	0.2	0.4	1.0	2.9	8.5	23.0	39.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB OF 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 28 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000					
1	0.2	0.5	0.8	1.2	1.6	2.3	3.5	4.8	51	0.1	0.2	0.4	0.9	2.7	8.0	21.9	38.5
2	0.2	0.5	0.9	1.3	1.7	2.4	3.7	5.1	52	0.1	0.2	0.4	0.9	2.7	7.8	21.5	37.8
3	0.2	0.5	0.9	1.4	1.8	2.6	3.9	5.3	53	0.1	0.2	0.4	0.9	2.6	7.6	21.2	36.9
4	0.2	0.5	0.9	1.5	2.0	2.8	4.2	5.6	54	0.1	0.2	0.4	0.9	2.5	7.4	20.9	36.2
5	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.9	55	0.1	0.2	0.3	0.9	2.5	7.2	20.5	35.6
6	0.2	0.5	1.0	1.6	2.3	3.1	4.7	6.2	56	0.1	0.2	0.3	0.9	2.4	7.1	20.1	34.9
7	0.2	0.5	1.0	1.7	2.4	3.3	5.0	6.5	57	0.1	0.2	0.4	0.8	2.3	6.9	19.7	34.4
8	0.2	0.4	1.0	1.8	2.6	3.6	5.2	6.9	58	0.1	0.2	0.4	0.8	2.3	6.7	19.3	33.8
9	0.2	0.4	1.0	1.9	2.8	3.8	5.6	7.2	59	0.1	0.2	0.4	0.8	2.2	6.5	18.9	33.4
10	0.2	0.4	1.1	2.0	3.0	4.1	5.9	7.6	60	0.1	0.2	0.4	0.8	2.1	6.3	18.5	32.8
11	0.1	0.4	1.1	2.0	3.2	4.3	6.2	8.0	61	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.3
12	0.1	0.4	1.1	2.1	3.3	4.6	6.6	8.5	62	0.1	0.2	0.4	0.8	2.0	6.1	17.7	31.7
13	0.1	0.4	1.0	2.1	3.5	4.9	7.0	8.9	63	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.1
14	0.1	0.4	1.0	2.2	3.7	5.2	7.4	9.4	64	0.1	0.2	0.4	0.8	2.0	5.8	16.9	30.5
15	0.1	0.4	1.0	2.2	3.9	5.6	7.9	10.0	65	0.1	0.2	0.4	0.8	1.9	5.6	16.6	29.9
16	0.1	0.3	0.9	2.3	4.1	6.0	8.4	10.5	66	0.1	0.2	0.4	0.8	1.9	5.5	16.2	29.3
17	0.1	0.3	0.9	2.3	4.2	6.3	8.9	11.1	67	0.1	0.2	0.4	0.8	1.9	5.3	15.9	28.6
18	0.1	0.3	0.9	2.3	4.4	6.7	9.4	11.7	68	0.1	0.2	0.4	0.8	1.8	5.1	15.1	27.5
19	0.1	0.3	0.9	2.3	4.5	7.1	10.0	12.4	69	0.1	0.2	0.4	0.8	1.8	4.9	14.7	26.9
20	0.1	0.3	0.8	2.3	4.6	7.5	10.6	13.1	70	0.1	0.2	0.4	0.8	1.8	4.8	14.4	26.4
21	0.1	0.3	0.8	2.2	4.7	7.9	11.2	13.9	71	0.1	0.2	0.4	0.8	1.8	4.7	14.1	25.9
22	0.1	0.3	0.8	2.1	4.8	8.3	11.9	14.7	72	0.1	0.2	0.4	0.8	1.8	4.6	13.8	25.3
23	0.1	0.3	0.8	2.1	4.9	8.7	12.7	15.5	73	0.1	0.2	0.4	0.8	1.8	4.6	13.5	24.8
24	0.1	0.3	0.7	2.0	4.9	9.0	13.4	16.4	74	0.1	0.2	0.4	0.9	1.8	4.5	13.2	24.2
25	0.1	0.2	0.7	1.9	5.0	9.4	14.3	17.3	75	0.1	0.2	0.4	0.9	1.8	4.4	12.9	23.6
26	0.1	0.2	0.7	1.9	5.0	9.6	15.1	18.3	76	0.1	0.2	0.4	0.9	1.8	4.4	12.6	23.1
27	0.1	0.2	0.7	1.9	5.0	9.9	15.9	19.4	77	0.1	0.2	0.4	0.9	1.8	4.4	12.3	22.7
28	0.1	0.2	0.7	1.8	5.0	10.1	16.7	20.5	78	0.1	0.2	0.4	0.9	1.8	4.3	12.0	22.3
29	0.1	0.2	0.6	1.8	4.8	10.3	17.6	21.7	79	0.1	0.2	0.4	0.9	1.8	4.2	11.7	21.8
30	0.1	0.2	0.6	1.7	4.7	10.5	18.4	23.0	80	0.1	0.2	0.5	0.9	1.8	4.2	11.5	21.3
31	0.1	0.2	0.6	1.7	4.6	10.7	19.2	24.2	81	0.1	0.2	0.5	0.9	1.9	4.2	11.3	20.8
32	0.1	0.2	0.6	1.6	4.5	10.8	19.9	25.4	82	0.1	0.2	0.5	0.9	1.9	4.2	11.0	20.4
33	0.1	0.2	0.6	1.6	4.4	11.0	20.6	26.7	83	0.1	0.2	0.5	0.9	1.9	4.2	11.0	20.4
34	0.1	0.2	0.5	1.5	4.3	11.1	21.8	28.0	84	0.1	0.2	0.5	0.9	1.9	4.1	10.8	19.9
35	0.1	0.2	0.5	1.5	4.2	11.1	21.8	29.2	85	0.1	0.2	0.5	1.0	1.9	4.1	10.7	19.4
36	0.1	0.2	0.5	1.5	4.1	11.0	22.3	30.3	86	0.1	0.2	0.5	1.0	2.0	4.1	10.5	19.0
37	0.1	0.2	0.5	1.4	4.0	10.9	22.7	31.4	87	0.1	0.2	0.5	1.0	2.0	4.1	10.4	18.7
38	0.1	0.2	0.5	1.4	3.9	10.6	23.1	32.4	88	0.1	0.2	0.5	1.0	2.0	4.1	10.2	18.3
39	0.1	0.2	0.5	1.3	3.8	10.3	23.5	33.3	89	0.1	0.2	0.5	1.0	2.0	4.1	10.1	18.0
40	0.1	0.2	0.4	1.3	3.7	10.1	23.9	34.2	90	0.1	0.2	0.5	1.0	2.0	4.2	10.0	17.7
41	0.1	0.2	0.4	1.2	3.6	9.9	24.2	35.0	91	0.1	0.3	0.5	1.0	2.1	4.2	9.9	17.4
42	0.1	0.2	0.4	1.2	3.5	9.7	24.5	35.6	92	0.1	0.3	0.5	1.0	2.1	4.3	9.8	17.1
43	0.1	0.2	0.4	1.2	3.4	9.5	24.7	36.3	93	0.1	0.3	0.5	1.0	2.1	4.3	9.8	16.9
44	0.1	0.2	0.4	1.1	3.3	9.3	24.7	36.9	94	0.1	0.3	0.5	1.1	2.1	4.4	9.7	16.5
45	0.1	0.2	0.4	1.1	3.2	9.2	24.6	37.5	95	0.1	0.3	0.5	1.1	2.2	4.4	9.7	16.3
46	0.1	0.2	0.4	1.1	3.2	9.0	24.3	38.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.7	16.3
47	0.1	0.2	0.4	1.0	3.1	8.8	23.8	38.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.7	16.1
48	0.1	0.2	0.4	1.0	3.0	8.6	23.2	38.9	98	0.1	0.3	0.5	1.1	2.2	4.5	9.7	16.0
49	0.1	0.2	0.4	1.0	2.9	8.4	22.8	39.9	99	0.1	0.3	0.6	1.1	2.2	4.6	9.7	15.9
50	0.1	0.2	0.4	1.0	2.8	8.2	22.3	39.8	100	0.1	0.3	0.6	1.1	2.3	4.6	9.7	15.9

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 29 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ								BAND CENTER FREQUENCY, HZ									
		63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	T 9	0.2	0.5	0.9	1.2	1.7	2.4	3.6	5.0	51	0.1	0.2	0.3	0.9	2.7	7.7	21.3	37.5	
2	E 10	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2	52	0.1	0.2	0.3	0.9	2.6	7.5	21.0	36.5	
3	A 11	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5	53	0.1	0.2	0.3	0.9	2.5	7.3	20.7	35.8	
4	M 12	0.2	0.5	1.0	1.5	2.0	2.9	4.3	5.8	54	0.1	0.2	0.3	0.9	2.4	7.1	20.3	35.2	
5	P 13	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1	55	0.1	0.2	0.3	0.8	2.4	7.0	19.9	34.6	
6	E 14	0.2	0.5	1.0	1.7	2.4	3.3	4.8	6.4	56	0.1	0.2	0.3	0.8	2.3	6.8	19.5	34.0	
7	A 15	0.2	0.4	1.0	1.8	2.5	3.5	5.1	6.7	57	0.1	0.2	0.4	0.8	2.2	6.6	19.1	33.5	
8	M 16	0.2	0.4	1.0	1.9	2.7	3.7	5.4	7.1	58	0.1	0.2	0.4	0.8	2.2	6.4	18.7	33.0	
9	P 17	0.2	0.4	1.0	2.0	2.9	3.9	5.5	7.5	59	0.1	0.2	0.4	0.8	2.1	6.3	18.3	32.5	
10	E 18	0.1	0.4	1.1	2.0	3.1	4.2	6.1	7.9	60	0.1	0.2	0.4	0.8	2.1	6.1	17.9	31.9	
11	A 19	0.1	0.4	1.0	2.1	3.3	4.5	6.5	8.3	61	0.1	0.2	0.4	0.8	2.0	6.0	17.5	31.3	
12	M 20	0.1	0.4	1.0	2.1	3.5	4.8	6.9	9.1	62	0.1	0.2	0.4	0.8	2.0	5.8	17.1	30.7	
13	P 21	0.1	0.4	1.0	2.2	3.7	5.1	7.3	9.2	63	0.1	0.2	0.4	0.8	1.9	5.7	16.7	30.1	
14	E 22	0.1	0.4	1.0	2.2	3.8	5.4	7.7	9.8	64	0.1	0.2	0.4	0.8	1.9	5.5	16.3	29.5	
15	A 23	0.1	0.3	0.9	2.2	4.0	5.8	8.2	10.1	65	0.1	0.2	0.4	0.8	1.9	5.4	16.0	28.9	
16	M 24	0.1	0.3	0.9	2.3	4.2	6.2	8.7	10.9	66	0.1	0.2	0.4	0.8	1.9	5.2	15.7	28.3	
17	P 25	0.1	0.3	0.9	2.3	4.3	6.6	9.2	11.5	67	0.1	0.2	0.4	0.8	1.8	5.1	15.3	27.7	
18	E 26	0.1	0.3	0.9	2.3	4.4	7.0	9.8	12.2	68	0.1	0.2	0.4	0.8	1.8	5.0	14.9	27.1	
19	A 27	0.1	0.3	0.8	2.3	4.6	7.4	10.4	13.0	69	0.1	0.2	0.4	0.8	1.8	4.9	14.5	26.6	
20	M 28	0.1	0.3	0.8	2.2	4.6	7.6	10.7	13.4	70	0.1	0.2	0.4	0.8	1.8	4.8	14.2	26.0	
21	P 29	0.1	0.3	0.8	2.1	4.7	8.2	11.7	14.4	71	0.1	0.2	0.4	0.8	1.8	4.7	13.9	25.5	
22	E 30	0.1	0.3	0.8	2.1	4.8	8.6	12.4	15.2	72	0.1	0.2	0.4	0.8	1.8	4.6	13.7	25.0	
23	A 31	0.1	0.3	0.7	2.0	4.9	8.9	13.2	16.1	73	0.1	0.2	0.4	0.8	1.8	4.5	13.3	24.4	
24	M 32	0.1	0.2	0.7	2.0	4.9	9.2	14.0	17.0	74	0.1	0.2	0.4	0.9	1.8	4.4	13.0	23.8	
25	P 33	0.1	0.2	0.7	1.9	5.0	9.5	14.8	17.9	75	0.1	0.2	0.4	0.9	1.8	4.3	12.7	23.3	
26	E 34	0.1	0.2	0.7	1.9	5.0	9.8	15.6	19.1	76	0.1	0.2	0.4	0.9	1.8	4.3	12.4	22.8	
27	A 35	0.1	0.2	0.7	1.8	4.9	10.0	16.4	20.2	77	0.1	0.2	0.4	0.9	1.8	4.2	12.1	22.4	
28	M 36	0.1	0.2	0.6	1.8	4.8	10.2	17.3	21.4	78	0.1	0.2	0.4	0.9	1.8	4.2	11.8	22.0	
29	P 37	0.1	0.2	0.6	1.7	4.7	10.4	18.1	22.6	79	0.1	0.2	0.4	0.9	1.8	4.2	11.6	21.5	
30	E 38	0.1	0.2	0.6	1.7	4.6	10.6	18.9	23.8	80	0.1	0.2	0.5	0.9	1.8	4.1	11.3	21.0	
31	A 39	0.1	0.2	0.6	1.6	4.4	10.7	19.6	25.0	81	0.1	0.2	0.5	0.9	1.9	4.1	11.1	20.5	
32	M 40	0.1	0.2	0.5	1.6	4.3	10.9	20.3	26.2	82	0.1	0.2	0.5	0.9	1.9	4.1	10.9	20.0	
33	P 41	0.1	0.2	0.5	1.5	4.3	11.0	20.9	27.5	83	0.1	0.2	0.5	0.9	1.9	4.1	10.7	19.6	
34	E 42	0.1	0.2	0.5	1.5	4.2	11.0	21.5	28.8	84	0.1	0.2	0.5	0.9	1.9	4.1	10.5	19.1	
35	A 43	0.1	0.2	0.5	1.5	4.1	10.9	22.0	29.9	85	0.1	0.2	0.5	1.0	1.9	4.1	10.4	18.7	
36	M 44	0.1	0.2	0.5	1.4	4.0	10.8	22.4	31.0	86	0.1	0.2	0.5	1.0	2.0	4.1	10.2	18.4	
37	P 45	0.1	0.2	0.5	1.4	3.9	10.5	22.9	32.0	87	0.1	0.2	0.5	1.0	2.0	4.1	10.1	18.0	
38	E 46	0.1	0.2	0.4	1.3	3.8	10.2	23.3	33.0	88	0.1	0.2	0.5	1.0	2.0	4.1	10.0	17.7	
39	A 47	0.1	0.2	0.4	1.3	3.7	10.0	23.6	33.8	89	0.1	0.2	0.5	1.0	2.0	4.1	9.8	17.4	
40	M 48	0.1	0.2	0.4	1.2	3.6	9.8	24.0	34.6	90	0.1	0.2	0.5	1.0	2.0	4.2	9.7	17.1	
41	P 49	0.1	0.2	0.4	1.2	3.5	9.6	24.2	35.2	91	0.1	0.3	0.5	1.0	2.1	4.2	9.7	16.9	
42	E 50	0.1	0.2	0.4	1.2	3.4	9.4	24.4	35.9	92	0.1	0.3	0.5	1.0	2.1	4.2	9.7	16.6	
43	A 51	0.1	0.2	0.4	1.1	3.3	9.3	24.5	36.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.7	16.4	
44	M 52	0.1	0.2	0.4	1.1	3.2	9.1	24.4	37.1	94	0.1	0.3	0.5	1.1	2.1	4.3	9.6	16.2	
45	P 53	0.1	0.2	0.4	1.1	3.1	8.9	24.1	37.6	95	0.1	0.3	0.5	1.1	2.2	4.4	9.6	16.0	
46	E 54	0.1	0.2	0.4	1.0	3.0	8.7	23.6	38.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.5	15.9	
47	A 55	0.1	0.2	0.4	1.0	3.0	8.5	23.0	38.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.5	15.8	
48	M 56	0.1	0.2	0.4	1.0	2.9	8.3	22.5	38.5	98	0.1	0.3	0.5	1.1	2.2	4.5	9.5	15.7	
49	P 57	0.1	0.2	0.4	0.9	2.8	8.1	22.1	38.4	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	15.7	
50	E 58	0.1	0.2	0.4	0.9	2.7	7.9	21.7	38.1	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	15.7	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB DEF 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 10 PERCENT RELATIVE HUMIDITY

	RAID CENTER FREQUENCY, M7							RAID CENTER FREQUENCY, M7									
	63	125	250	500	1000	2000	4000	63	125	250	500	1000	2000	4000	8000		
1	0.2	0.5	0.9	1.3	1.7	2.4	3.8	5.1	51	0.1	0.2	0.3	0.9	2.6	7.4	20.8	36.2
2	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4	52	0.1	0.2	0.3	0.9	2.5	7.2	20.5	35.5
3	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.6	53	0.1	0.2	0.3	0.8	2.4	7.1	20.1	34.8
4	0.2	0.5	1.0	1.6	2.1	3.0	4.5	5.9	54	0.1	0.2	0.3	0.9	2.3	6.9	19.7	34.2
5	0.2	0.5	1.0	1.7	2.3	3.2	4.7	6.2	55	0.1	0.2	0.3	0.8	2.3	6.7	19.3	33.6
6	0.2	0.4	1.0	1.7	2.4	3.4	5.0	6.6	56	0.1	0.2	0.2	0.8	2.2	6.5	18.9	33.1
7	0.2	0.4	1.0	1.8	2.6	3.6	5.3	6.9	57	0.1	0.2	0.4	0.8	2.1	6.4	18.5	32.6
8	0.2	0.4	1.0	1.9	2.8	3.8	5.6	7.3	58	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.1
9	0.1	0.4	1.0	2.0	3.0	4.1	6.0	7.7	59	0.1	0.2	0.4	0.8	2.0	6.1	17.7	31.6
10	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.1	60	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.0
11	0.1	0.4	1.0	2.1	3.4	4.7	6.7	8.6	61	0.1	0.2	0.4	0.8	2.0	5.8	16.9	30.4
12	0.1	0.4	1.0	2.1	3.6	5.0	7.1	9.0	62	0.1	0.2	0.4	0.8	1.9	5.6	16.5	29.8
13	0.1	0.4	1.0	2.2	3.8	5.3	7.5	9.6	63	0.1	0.2	0.4	0.8	1.9	5.5	16.2	29.2
14	0.1	0.4	1.0	2.2	3.9	5.7	8.0	10.1	64	0.1	0.2	0.4	0.8	1.9	5.3	15.8	28.6
15	0.1	0.3	0.9	2.2	4.1	6.0	8.5	10.7	65	0.1	0.2	0.4	0.8	1.9	5.2	15.5	28.0
16	0.1	0.3	0.9	2.3	4.2	6.4	9.0	11.3	66	0.1	0.2	0.4	0.8	1.9	5.0	15.1	27.4
17	0.1	0.3	0.9	2.3	4.4	6.8	9.6	11.9	67	0.1	0.2	0.4	0.8	1.9	4.9	14.7	26.8
18	0.1	0.3	0.8	2.2	4.5	7.2	10.1	12.6	68	0.1	0.2	0.4	0.8	1.8	4.8	14.4	26.2
19	0.1	0.3	0.8	2.2	4.6	7.6	10.8	13.3	69	0.1	0.2	0.4	0.8	1.8	4.7	14.0	25.7
20	0.1	0.3	0.8	2.1	4.7	8.0	11.6	14.1	70	0.1	0.2	0.4	0.8	1.8	4.6	13.8	25.2
21	0.1	0.3	0.7	2.1	4.8	8.4	12.1	14.9	71	0.1	0.2	0.4	0.8	1.7	4.5	13.5	24.7
22	0.1	0.3	0.7	2.0	4.8	8.8	12.6	15.8	72	0.1	0.2	0.4	0.8	1.7	4.4	13.2	24.1
23	0.1	0.2	0.7	2.0	4.9	9.1	13.7	16.7	73	0.1	0.2	0.4	0.9	1.7	4.3	12.8	23.5
24	0.1	0.2	0.7	1.9	4.9	9.4	14.5	17.6	74	0.1	0.2	0.4	0.9	1.7	4.2	12.5	23.0
25	0.1	0.2	0.6	1.8	4.9	9.6	15.3	18.4	75	0.1	0.2	0.4	0.9	1.7	4.2	12.2	22.5
26	0.1	0.2	0.6	1.8	4.9	9.9	16.1	19.3	76	0.1	0.2	0.4	0.9	1.8	4.2	11.9	22.1
27	0.1	0.2	0.6	1.8	4.8	10.1	17.0	20.0	77	0.1	0.2	0.4	0.9	1.8	4.1	11.6	21.7
28	0.1	0.2	0.6	1.7	4.7	10.3	17.8	20.8	78	0.1	0.2	0.4	0.9	1.8	4.1	11.4	21.2
29	0.1	0.2	0.6	1.7	4.5	10.5	18.6	21.6	79	0.1	0.2	0.4	0.9	1.8	4.1	11.2	20.7
30	0.1	0.2	0.6	1.6	4.4	10.6	19.3	22.4	80	0.1	0.2	0.5	0.9	1.9	4.1	10.9	20.2
31	0.1	0.2	0.5	1.6	4.3	10.7	20.0	23.2	81	0.1	0.2	0.5	0.9	1.9	4.1	10.7	19.8
32	0.1	0.2	0.5	1.5	4.2	10.9	20.6	24.0	82	0.1	0.2	0.5	0.9	1.9	4.0	10.5	19.3
33	0.1	0.2	0.5	1.5	4.1	10.9	21.2	24.8	83	0.1	0.2	0.5	0.9	1.9	4.0	10.4	18.9
34	0.1	0.2	0.5	1.4	4.1	10.8	21.7	25.5	84	0.1	0.2	0.5	0.9	1.9	4.0	10.2	18.5
35	0.1	0.2	0.5	1.4	4.0	10.7	22.2	26.2	85	0.1	0.2	0.5	1.0	1.9	4.0	10.1	18.1
36	0.1	0.2	0.5	1.4	3.9	10.5	22.6	26.9	86	0.1	0.2	0.5	1.0	2.0	4.0	10.0	17.8
37	0.1	0.2	0.4	1.3	3.8	10.2	23.0	27.6	87	0.1	0.2	0.5	1.0	2.0	4.0	9.8	17.5
38	0.1	0.2	0.4	1.3	3.7	9.9	23.4	28.3	88	0.1	0.2	0.5	1.0	2.0	4.1	9.7	17.2
39	0.1	0.2	0.4	1.2	3.6	9.7	23.7	29.0	89	0.1	0.2	0.5	1.0	2.0	4.1	9.6	16.9
40	0.1	0.2	0.4	1.2	3.5	9.5	24.0	29.7	90	0.1	0.3	0.5	1.0	2.0	4.2	9.6	16.6
41	0.1	0.2	0.4	1.2	3.4	9.3	24.2	30.4	91	0.1	0.3	0.5	1.0	2.1	4.3	9.5	16.4
42	0.1	0.2	0.4	1.1	3.3	9.2	24.3	31.1	92	0.1	0.3	0.5	1.0	2.1	4.3	9.5	16.2
43	0.1	0.2	0.4	1.1	3.2	9.0	24.2	31.8	93	0.1	0.3	0.5	1.0	2.1	4.3	9.5	16.0
44	0.1	0.2	0.4	1.1	3.1	8.8	23.9	32.5	94	0.1	0.3	0.5	1.1	2.1	4.3	9.4	15.8
45	0.1	0.2	0.4	1.0	3.0	8.6	23.4	33.2	95	0.1	0.3	0.5	1.1	2.2	4.4	9.4	15.7
46	0.1	0.2	0.4	1.0	2.9	8.4	22.8	33.9	96	0.1	0.3	0.5	1.1	2.2	4.4	9.4	15.6
47	0.1	0.2	0.4	1.0	2.8	8.2	22.4	34.6	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	15.6
48	0.1	0.2	0.4	0.9	2.8	8.0	21.9	35.3	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	15.5
49	0.1	0.2	0.3	0.9	2.7	7.8	21.5	36.0	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	15.5
50	0.1	0.2	0.3	0.9	2.6	7.6	21.1	36.7	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	15.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE RANGES OF NOISE AS A FUNCTION OF TEMPERATURE AND 31 PERCENT RELATIVE HUMIDITY

	BAYD CENTER FREQUENCY, M ²					RAYD CENTER FREQUENCY, M ²						RAYD CENTER FREQUENCY, M ²					
	63	125	250	500	1000	2000	4000	8000	63	125		250	500	1000	2000	4000	
1	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2	51	0.1	0.2	0.3	0.9	2.5	7.2	20.3	35.2
2	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5	52	0.1	0.2	0.3	0.9	2.4	7.0	19.9	34.6
3	0.2	0.5	1.0	1.5	2.1	2.9	4.3	5.8	53	0.1	0.2	0.3	0.9	2.3	6.9	19.5	33.9
4	0.2	0.5	1.0	1.6	2.2	3.1	4.6	5.1	54	0.1	0.2	0.3	0.9	2.2	6.7	19.1	33.3
5	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.4	55	0.1	0.2	0.3	0.8	2.2	6.5	18.7	32.8
6	0.2	0.4	1.0	1.8	2.5	3.5	5.2	6.8	56	0.1	0.2	0.3	0.8	2.1	6.3	18.3	32.3
7	0.2	0.4	1.0	1.9	2.7	3.7	5.5	7.1	57	0.1	0.2	0.4	0.8	2.1	6.1	17.9	31.8
8	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5	58	0.1	0.2	0.4	0.9	2.0	6.0	17.5	31.3
9	0.1	0.4	1.0	2.0	3.1	4.3	6.2	7.9	59	0.1	0.2	0.4	0.8	2.0	5.9	17.1	30.7
10	0.1	0.4	1.0	2.1	3.3	4.5	6.5	8.4	60	0.1	0.2	0.4	0.8	1.9	5.7	16.7	30.1
11	0.1	0.4	1.0	2.1	3.5	4.8	6.9	8.8	61	0.1	0.2	0.4	0.8	1.9	5.6	16.4	29.5
12	0.1	0.4	1.0	2.1	3.7	5.2	7.3	9.3	62	0.1	0.2	0.4	0.8	1.9	5.4	16.0	28.9
13	0.1	0.3	0.9	2.2	3.9	5.5	7.8	9.9	63	0.1	0.2	0.4	0.8	1.8	5.3	15.7	28.3
14	0.1	0.3	0.9	2.2	4.0	5.9	8.3	10.4	64	0.1	0.2	0.4	0.8	1.8	5.1	15.3	27.7
15	0.1	0.3	0.9	2.2	4.2	6.3	8.8	11.0	65	0.1	0.2	0.4	0.9	1.8	5.0	14.9	27.1
16	0.1	0.3	0.9	2.2	4.3	6.7	9.3	11.6	66	0.1	0.2	0.4	0.9	1.8	4.9	14.5	26.5
17	0.1	0.3	0.8	2.2	4.4	7.0	9.9	12.3	67	0.1	0.2	0.4	0.9	1.8	4.8	14.2	26.0
18	0.1	0.3	0.8	2.2	4.5	7.4	10.5	13.0	68	0.1	0.2	0.4	0.8	1.9	4.7	13.9	25.4
19	0.1	0.3	0.8	2.1	4.6	7.9	11.2	13.8	69	0.1	0.2	0.4	0.8	1.7	4.5	13.6	24.9
20	0.1	0.3	0.8	2.1	4.7	8.2	11.9	14.6	70	0.1	0.2	0.4	0.8	1.7	4.4	13.3	24.4
21	0.1	0.3	0.7	2.0	4.8	8.6	12.6	15.4	71	0.1	0.2	0.4	0.8	1.7	4.4	13.0	23.9
22	0.1	0.2	0.7	2.0	4.9	8.9	13.4	16.3	72	0.1	0.2	0.4	0.9	1.7	4.3	12.7	23.2
23	0.1	0.2	0.7	1.9	4.9	9.2	14.2	17.3	73	0.1	0.2	0.4	0.8	1.7	4.3	12.4	22.7
24	0.1	0.2	0.7	1.9	4.9	9.5	15.0	18.3	74	0.1	0.2	0.4	0.9	1.7	4.2	12.1	22.3
25	0.1	0.2	0.6	1.8	4.9	9.7	15.8	19.4	75	0.1	0.2	0.4	0.9	1.7	4.1	11.8	21.8
26	0.1	0.2	0.6	1.8	4.8	9.9	16.6	20.5	76	0.1	0.2	0.4	0.9	1.7	4.1	11.5	21.4
27	0.1	0.2	0.6	1.7	4.7	10.2	17.5	21.7	77	0.1	0.2	0.4	0.9	1.7	4.0	11.2	20.9
28	0.1	0.2	0.6	1.7	4.5	10.3	18.1	22.9	78	0.1	0.2	0.4	0.9	1.7	4.0	11.0	20.5
29	0.1	0.2	0.6	1.6	4.4	10.5	19.0	24.1	79	0.1	0.2	0.4	0.9	1.7	4.0	10.8	20.0
30	0.1	0.2	0.5	1.6	4.3	10.6	19.7	25.3	80	0.1	0.2	0.5	0.9	1.7	4.0	10.6	19.5
31	0.1	0.2	0.5	1.5	4.2	10.7	20.3	26.5	81	0.1	0.2	0.5	0.9	1.7	4.0	10.4	19.0
32	0.1	0.2	0.5	1.5	4.1	10.8	20.9	27.9	82	0.1	0.2	0.5	0.9	1.7	4.0	10.2	18.6
33	0.1	0.2	0.5	1.4	4.0	10.8	21.5	29.0	83	0.1	0.2	0.5	0.9	1.7	4.0	10.1	18.3
34	0.1	0.2	0.5	1.4	3.9	10.6	21.9	30.1	84	0.1	0.2	0.5	0.9	1.7	4.0	10.0	17.9
35	0.1	0.2	0.5	1.4	3.8	10.4	22.3	31.2	85	0.1	0.2	0.5	1.0	2.0	4.0	9.8	17.5
36	0.1	0.2	0.4	1.3	3.7	10.1	22.8	32.1	86	0.1	0.2	0.5	1.0	2.0	4.0	9.7	17.2
37	0.1	0.2	0.4	1.3	3.6	9.9	23.1	33.0	87	0.1	0.2	0.5	1.0	2.0	4.0	9.6	16.9
38	0.1	0.2	0.4	1.2	3.5	9.7	23.4	33.8	88	0.1	0.2	0.5	1.0	2.0	4.0	9.5	16.7
39	0.1	0.2	0.4	1.2	3.5	9.5	23.7	34.4	89	0.1	0.2	0.5	1.0	2.0	4.0	9.5	16.4
40	0.1	0.2	0.4	1.2	3.4	9.3	24.0	35.1	90	0.1	0.2	0.5	1.0	2.0	4.0	9.5	16.2
41	0.1	0.2	0.4	1.1	3.3	9.1	24.0	35.7	91	0.1	0.2	0.5	1.0	2.0	4.0	9.4	16.0
42	0.1	0.2	0.4	1.1	3.2	8.9	24.0	36.3	92	0.1	0.2	0.5	1.0	2.0	4.0	9.4	15.8
43	0.1	0.2	0.4	1.1	3.1	8.8	23.7	36.8	93	0.1	0.2	0.5	1.0	2.0	4.0	9.3	15.6
44	0.1	0.2	0.4	1.0	3.0	8.6	23.3	37.2	94	0.1	0.2	0.5	1.0	2.0	4.0	9.3	15.5
45	0.1	0.2	0.4	1.0	2.9	8.4	22.9	37.6	95	0.1	0.2	0.5	1.0	2.0	4.0	9.3	15.4
46	0.1	0.2	0.4	1.0	2.8	8.2	22.2	37.8	96	0.1	0.2	0.5	1.0	2.0	4.0	9.3	15.4
47	0.1	0.2	0.3	0.9	2.7	8.0	21.8	37.7	97	0.1	0.2	0.5	1.0	2.0	4.0	9.3	15.4
48	0.1	0.2	0.3	0.9	2.7	7.8	21.3	37.4	98	0.1	0.2	0.5	1.0	2.0	4.0	9.3	15.3
49	0.1	0.2	0.3	0.9	2.6	7.6	21.0	36.8	99	0.1	0.2	0.6	1.0	2.0	4.0	9.3	15.2
50	0.1	0.2	0.3	0.9	2.5	7.4	20.6	35.9	100	0.1	0.2	0.6	1.0	2.0	4.0	9.3	15.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 32 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	32000	64000	128000
1	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4	51	0.1	0.2	0.3
2	0.2	0.5	0.9	1.5	2.0	2.8	4.2	5.6	52	0.1	0.2	0.3
3	0.2	0.5	1.0	1.6	2.1	3.0	4.5	5.9	53	0.1	0.2	0.3
4	0.2	0.4	1.0	1.7	2.3	3.2	4.7	6.3	54	0.1	0.2	0.3
5	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.5	55	0.1	0.2	0.3
6	0.2	0.4	1.0	1.8	2.6	3.6	5.3	7.0	56	0.1	0.2	0.3
7	0.2	0.4	1.0	1.9	2.8	3.9	5.6	7.3	57	0.1	0.2	0.4
8	0.1	0.4	1.0	2.0	3.0	4.1	6.0	8.2	58	0.1	0.2	0.4
9	0.1	0.4	1.0	2.1	3.2	4.4	6.4	8.6	59	0.1	0.2	0.4
10	0.1	0.4	1.0	2.1	3.4	4.7	6.7	8.6	60	0.1	0.2	0.4
11	0.1	0.4	1.0	2.1	3.6	5.0	7.2	9.1	61	0.1	0.2	0.4
12	0.1	0.3	0.9	2.2	3.8	5.4	7.6	9.6	62	0.1	0.2	0.4
13	0.1	0.3	0.9	2.2	3.9	5.7	8.1	10.2	63	0.1	0.2	0.4
14	0.1	0.3	0.9	2.2	4.1	6.1	8.6	10.7	64	0.1	0.2	0.4
15	0.1	0.3	0.9	2.2	4.2	6.2	8.7	10.8	65	0.1	0.2	0.4
16	0.1	0.3	0.8	2.2	4.4	6.5	9.1	11.4	66	0.1	0.2	0.4
17	0.1	0.3	0.8	2.2	4.5	6.7	9.7	12.0	67	0.1	0.2	0.4
18	0.1	0.3	0.8	2.1	4.6	7.1	10.9	13.4	68	0.1	0.2	0.4
19	0.1	0.3	0.8	2.1	4.6	8.1	11.6	14.2	69	0.1	0.2	0.4
20	0.1	0.3	0.7	2.0	4.7	8.4	12.3	15.1	70	0.1	0.2	0.4
21	0.1	0.2	0.7	2.0	4.8	8.8	13.1	15.9	71	0.1	0.2	0.4
22	0.1	0.2	0.7	1.9	4.8	9.1	13.9	16.9	72	0.1	0.2	0.4
23	0.1	0.2	0.7	1.9	4.9	9.4	14.7	17.9	73	0.1	0.2	0.4
24	0.1	0.2	0.6	1.8	4.8	9.6	15.5	18.9	74	0.1	0.2	0.4
25	0.1	0.2	0.6	1.8	4.8	9.8	16.3	20.1	75	0.1	0.2	0.4
26	0.1	0.2	0.6	1.7	4.7	10.0	17.1	21.3	76	0.1	0.2	0.4
27	0.1	0.2	0.6	1.7	4.5	10.2	18.0	22.5	77	0.1	0.2	0.4
28	0.1	0.2	0.6	1.6	4.4	10.4	18.7	23.6	78	0.1	0.2	0.4
29	0.1	0.2	0.5	1.6	4.3	10.5	19.4	24.9	79	0.1	0.2	0.5
30	0.1	0.2	0.5	1.5	4.2	10.6	20.0	26.1	80	0.1	0.2	0.5
31	0.1	0.2	0.5	1.5	4.1	10.7	20.6	27.4	81	0.1	0.2	0.5
32	0.1	0.2	0.5	1.4	4.0	10.7	21.2	28.6	82	0.1	0.2	0.5
33	0.1	0.2	0.5	1.4	3.9	10.6	21.6	29.7	83	0.1	0.2	0.5
34	0.1	0.2	0.5	1.4	3.8	10.4	22.1	30.7	84	0.1	0.2	0.5
35	0.1	0.2	0.4	1.3	3.7	10.1	22.5	31.7	85	0.1	0.2	0.5
36	0.1	0.2	0.4	1.3	3.6	9.8	22.9	32.5	86	0.1	0.2	0.5
37	0.1	0.2	0.4	1.2	3.5	9.6	23.2	33.3	87	0.1	0.2	0.5
38	0.1	0.2	0.4	1.2	3.4	9.4	23.5	34.0	88	0.1	0.2	0.5
39	0.1	0.2	0.4	1.2	3.3	9.2	23.7	34.7	89	0.1	0.2	0.5
40	0.1	0.2	0.4	1.1	3.2	9.1	23.8	35.3	90	0.1	0.3	0.5
41	0.1	0.2	0.4	1.1	3.2	8.9	23.8	35.9	91	0.1	0.3	0.5
42	0.1	0.2	0.4	1.0	3.1	8.7	23.6	36.4	92	0.1	0.3	0.5
43	0.1	0.2	0.4	1.0	3.0	8.5	23.1	36.8	93	0.1	0.3	0.5
44	0.1	0.2	0.4	1.0	2.9	8.3	22.5	37.2	94	0.1	0.3	0.5
45	0.1	0.2	0.3	1.0	2.8	8.1	22.1	37.4	95	0.1	0.3	0.5
46	0.1	0.2	0.3	0.9	2.7	7.9	21.6	37.4	96	0.1	0.3	0.5
47	0.1	0.2	0.3	0.9	2.7	7.7	21.2	37.1	97	0.1	0.3	0.5
48	0.1	0.2	0.3	0.9	2.6	7.5	20.8	36.6	98	0.1	0.3	0.5
49	0.1	0.2	0.3	0.9	2.5	7.3	20.5	35.7	99	0.1	0.3	0.6
50	0.1	0.2	0.3	0.8	2.4	7.1	20.2	35.0	100	0.1	0.3	0.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 33 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5	51	0.1	0.2	0.3	0.8	2.3	6.8	19.3	33.5
2	0.2	0.5	0.9	1.5	2.1	2.9	4.3	5.8	52	0.1	0.2	0.3	0.8	2.2	6.6	18.9	32.9
3	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1	53	0.1	0.2	0.3	0.8	2.2	6.4	18.5	32.3
4	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.4	54	0.1	0.2	0.3	0.8	2.1	6.2	18.1	31.8
5	0.2	0.4	1.0	1.8	2.6	3.5	5.2	6.8	55	0.1	0.2	0.3	0.8	2.0	6.1	17.7	31.4
6	0.2	0.4	1.0	1.9	2.7	3.7	5.5	7.1	56	0.1	0.2	0.3	0.8	2.0	5.9	17.3	30.8
7	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5	57	0.1	0.2	0.4	0.8	1.9	5.8	16.9	30.2
8	0.1	0.4	1.0	2.0	3.1	4.3	6.2	8.0	58	0.1	0.2	0.4	0.7	1.9	5.6	16.5	29.6
9	0.1	0.4	1.0	2.0	3.3	4.6	6.6	8.4	59	0.1	0.2	0.4	0.7	1.9	5.5	16.1	29.0
10	0.1	0.4	1.0	2.1	3.5	4.9	7.0	8.9	60	0.1	0.2	0.4	0.7	1.8	5.3	15.7	28.4
11	0.1	0.4	0.9	2.1	3.7	5.2	7.4	9.4	61	0.1	0.2	0.4	0.7	1.8	5.2	15.4	27.8
12	0.1	0.3	0.9	2.2	3.9	5.6	7.8	9.9	62	0.1	0.2	0.4	0.7	1.8	5.0	15.1	27.2
13	0.1	0.3	0.9	2.2	4.0	5.9	8.3	10.5	63	0.1	0.2	0.4	0.8	1.8	4.9	14.7	26.6
14	0.1	0.3	0.9	2.2	4.2	6.3	8.8	11.1	64	0.1	0.2	0.4	0.8	1.7	4.8	14.3	26.0
15	0.1	0.3	0.8	2.2	4.3	6.7	9.4	11.7	65	0.1	0.2	0.4	0.8	1.7	4.7	13.9	25.5
16	0.1	0.3	0.8	2.2	4.4	7.1	10.0	12.4	66	0.1	0.2	0.4	0.8	1.7	4.6	13.6	25.0
17	0.1	0.3	0.8	2.1	4.5	7.4	10.6	13.1	67	0.1	0.2	0.4	0.8	1.7	4.5	13.4	24.5
18	0.1	0.3	0.8	2.1	4.6	7.9	11.3	13.9	68	0.1	0.2	0.4	0.8	1.7	4.4	13.1	23.9
19	0.1	0.3	0.7	2.0	4.7	8.3	12.0	14.7	69	0.1	0.2	0.4	0.8	1.7	4.3	12.8	23.4
20	0.1	0.2	0.7	2.0	4.7	8.6	12.7	15.6	70	0.1	0.2	0.4	0.8	1.7	4.2	12.5	22.8
21	0.1	0.2	0.7	1.9	4.8	8.9	13.5	16.5	71	0.1	0.2	0.4	0.8	1.7	4.2	12.1	22.3
22	0.1	0.2	0.7	1.9	4.8	9.2	14.3	17.5	72	0.1	0.2	0.4	0.8	1.7	4.1	11.8	21.8
23	0.1	0.2	0.7	1.8	4.8	9.5	15.1	18.5	73	0.1	0.2	0.4	0.8	1.7	4.0	11.5	21.4
24	0.1	0.2	0.6	1.8	4.8	9.7	15.9	19.6	74	0.1	0.2	0.4	0.9	1.7	4.0	11.3	21.0
25	0.1	0.2	0.6	1.7	4.7	9.9	16.8	20.8	75	0.1	0.2	0.4	0.9	1.7	4.0	11.0	20.5
26	0.1	0.2	0.6	1.7	4.5	10.1	17.6	22.0	76	0.1	0.2	0.4	0.9	1.8	4.0	10.8	20.0
27	0.1	0.2	0.6	1.6	4.4	10.2	18.4	23.2	77	0.1	0.2	0.4	0.9	1.8	4.0	10.6	19.6
28	0.1	0.2	0.5	1.6	4.3	10.4	19.1	24.3	78	0.1	0.2	0.4	0.9	1.8	3.9	10.4	19.1
29	0.1	0.2	0.5	1.5	4.2	10.5	19.7	25.6	79	0.1	0.2	0.4	0.9	1.8	3.9	10.2	18.6
30	0.1	0.2	0.5	1.5	4.1	10.6	20.9	26.9	80	0.1	0.2	0.5	0.9	1.8	3.9	10.0	18.2
31	0.1	0.2	0.5	1.4	4.0	10.6	20.9	28.1	81	0.1	0.2	0.5	0.9	1.9	3.9	9.9	17.9
32	0.1	0.2	0.5	1.4	3.9	10.5	21.4	29.2	82	0.1	0.2	0.5	0.9	1.9	3.9	9.7	17.5
33	0.1	0.2	0.5	1.4	3.8	10.4	21.8	30.2	83	0.1	0.2	0.5	0.9	1.9	3.9	9.6	17.2
34	0.1	0.2	0.4	1.3	3.7	10.1	22.2	31.2	84	0.1	0.2	0.5	0.9	1.9	3.9	9.5	16.9
35	0.1	0.2	0.4	1.3	3.6	9.8	22.6	32.1	85	0.1	0.2	0.5	1.0	1.9	3.9	9.4	16.6
36	0.1	0.2	0.4	1.2	3.5	9.6	22.9	32.9	86	0.1	0.2	0.5	1.0	2.0	4.0	9.3	16.3
37	0.1	0.2	0.4	1.2	3.4	9.4	23.2	33.6	87	0.1	0.2	0.5	1.0	2.0	4.0	9.3	16.1
38	0.1	0.2	0.4	1.2	3.3	9.2	23.5	34.3	88	0.1	0.2	0.5	1.0	2.0	4.1	9.3	15.9
39	0.1	0.2	0.4	1.1	3.2	9.0	23.6	34.9	89	0.1	0.2	0.5	1.0	2.0	4.1	9.2	15.7
40	0.1	0.2	0.4	1.1	3.2	8.9	23.6	35.5	90	0.1	0.3	0.5	1.0	2.0	4.2	9.2	15.5
41	0.1	0.1	0.4	1.0	3.1	8.7	23.4	36.0	91	0.1	0.3	0.5	1.0	2.1	4.2	9.1	15.3
42	0.1	0.1	0.4	1.0	3.0	8.5	23.0	36.5	92	0.1	0.3	0.5	1.0	2.1	4.3	9.1	15.2
43	0.1	0.1	0.3	1.0	2.9	8.3	22.4	36.9	93	0.1	0.3	0.5	1.0	2.1	4.3	9.1	15.1
44	0.1	0.1	0.3	0.9	2.8	8.1	21.9	37.1	94	0.1	0.3	0.5	1.1	2.1	4.3	9.1	15.1
45	0.1	0.2	0.3	0.9	2.7	7.9	21.5	37.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	15.0
46	0.1	0.2	0.3	0.9	2.6	7.7	21.1	36.9	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	15.0
47	0.1	0.2	0.3	0.9	2.6	7.5	20.7	36.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.9
48	0.1	0.2	0.3	0.9	2.5	7.3	20.3	35.6	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.8
49	0.1	0.2	0.3	0.8	2.4	7.1	20.0	34.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.8
50	0.1	0.2	0.3	0.8	2.4	6.9	19.7	34.1	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 34 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7					BAND CENTER FREQUENCY, MZ											
	63	125	250	500	1000	2000	4000	8000									
1	0.2	0.5	0.9	1.5	2.0	2.8	4.2	5.6			51	0.1	0.2	0.3	0.8	2.2	6.6
2	0.2	0.5	0.9	1.6	2.1	3.0	4.5	5.9	52	0.1	0.2	0.3	0.8	2.1	6.4	19.4	32.1
3	0.2	0.4	1.0	1.7	2.3	3.2	4.7	6.3	53	0.1	0.2	0.3	0.8	2.0	6.2	18.0	31.6
4	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.6	54	0.1	0.2	0.3	0.8	2.0	6.0	17.6	31.2
5	0.2	0.4	1.0	1.8	2.6	3.6	5.3	7.0	55	0.1	0.2	0.3	0.8	2.0	5.9	17.2	30.6
6	0.1	0.4	1.0	1.9	2.8	3.9	5.6	7.3	56	0.1	0.2	0.3	0.7	1.9	5.7	16.8	30.0
7	0.1	0.4	1.0	2.0	3.0	4.1	6.0	7.7	57	0.1	0.2	0.4	0.7	1.9	5.6	16.4	29.4
8	0.1	0.4	1.0	2.0	3.2	4.4	6.4	8.2	58	0.1	0.2	0.4	0.7	1.9	5.5	16.0	28.8
9	0.1	0.4	1.0	2.1	3.4	4.7	6.8	8.6	59	0.1	0.2	0.4	0.7	1.8	5.3	15.6	28.2
10	0.1	0.4	0.9	2.1	3.6	5.0	7.2	9.1	60	0.1	0.2	0.4	0.7	1.8	5.2	15.3	27.6
11	0.1	0.3	0.9	2.1	3.8	5.4	7.6	9.6	61	0.1	0.2	0.4	0.7	1.8	5.0	15.0	27.0
12	0.1	0.3	0.9	2.2	3.9	5.7	8.1	10.2	62	0.1	0.2	0.4	0.7	1.7	4.9	14.6	26.4
13	0.1	0.3	0.9	2.2	4.1	6.1	8.6	10.8	63	0.1	0.2	0.4	0.8	1.7	4.8	14.2	25.9
14	0.1	0.3	0.8	2.2	4.2	6.5	9.1	11.4	64	0.1	0.2	0.4	0.8	1.7	4.6	13.8	25.3
15	0.1	0.3	0.8	2.2	4.3	6.9	9.7	12.1	65	0.1	0.2	0.4	0.8	1.7	4.5	13.5	24.8
16	0.1	0.3	0.8	2.2	4.4	7.3	10.3	12.8	66	0.1	0.2	0.4	0.8	1.7	4.4	13.3	24.3
17	0.1	0.3	0.8	2.1	4.5	7.7	11.0	13.5	67	0.1	0.2	0.4	0.8	1.7	4.3	13.0	23.8
18	0.1	0.3	0.7	2.0	4.6	8.1	11.7	14.3	68	0.1	0.2	0.4	0.8	1.7	4.3	12.7	23.2
19	0.1	0.3	0.7	2.0	4.7	8.4	12.4	15.2	69	0.1	0.2	0.4	0.8	1.7	4.2	12.4	22.6
20	0.1	0.2	0.7	1.9	4.7	8.8	13.2	16.1	70	0.1	0.2	0.4	0.8	1.7	4.1	12.0	22.1
21	0.1	0.2	0.7	1.9	4.8	9.1	14.0	17.0	71	0.1	0.2	0.4	0.8	1.7	4.1	11.7	21.6
22	0.1	0.2	0.7	1.8	4.8	9.3	14.8	18.0	72	0.1	0.2	0.4	0.8	1.7	4.0	11.4	21.2
23	0.1	0.2	0.6	1.8	4.8	9.6	15.6	19.1	73	0.1	0.2	0.4	0.8	1.7	4.0	11.2	20.8
24	0.1	0.2	0.6	1.7	4.7	9.8	16.4	20.3	74	0.1	0.2	0.4	0.9	1.7	3.9	10.9	20.3
25	0.1	0.2	0.6	1.7	4.5	10.0	17.2	21.5	75	0.1	0.2	0.4	0.9	1.7	3.9	10.7	19.9
26	0.1	0.2	0.6	1.6	4.4	10.1	18.0	22.6	76	0.1	0.2	0.4	0.9	1.8	3.9	10.5	19.4
27	0.1	0.2	0.5	1.6	4.3	10.3	18.7	23.8	77	0.1	0.2	0.4	0.9	1.8	3.9	10.3	18.9
28	0.1	0.2	0.5	1.5	4.2	10.4	19.4	25.0	78	0.1	0.2	0.4	0.9	1.8	3.9	10.1	18.5
29	0.1	0.2	0.5	1.5	4.1	10.5	20.0	26.3	79	0.1	0.2	0.4	0.9	1.8	3.8	9.9	18.1
30	0.1	0.2	0.5	1.4	4.0	10.5	20.6	27.6	80	0.1	0.2	0.5	0.9	1.8	3.8	9.8	17.7
31	0.1	0.2	0.5	1.4	3.9	10.5	21.1	28.7	81	0.1	0.2	0.5	0.9	1.9	3.8	9.7	17.4
32	0.1	0.2	0.5	1.4	3.8	10.3	21.5	29.7	82	0.1	0.2	0.5	0.9	1.9	3.8	9.5	17.0
33	0.1	0.2	0.4	1.3	3.7	10.1	21.9	30.7	83	0.1	0.2	0.5	0.9	1.9	3.9	9.4	16.7
34	0.1	0.2	0.4	1.3	3.6	9.8	22.3	31.6	84	0.1	0.2	0.5	0.9	1.9	4.0	9.3	16.4
35	0.1	0.2	0.4	1.2	3.5	9.6	22.7	32.5	85	0.1	0.2	0.5	1.0	1.9	4.0	9.2	16.2
36	0.1	0.2	0.4	1.2	3.4	9.4	23.0	33.2	86	0.1	0.2	0.5	1.0	2.0	4.0	9.2	15.9
37	0.1	0.2	0.4	1.2	3.3	9.2	23.2	33.8	87	0.1	0.2	0.5	1.0	2.0	4.0	9.2	15.7
38	0.1	0.1	0.4	1.1	3.2	9.0	23.4	34.5	88	0.1	0.2	0.5	1.0	2.0	4.1	9.1	15.5
39	0.1	0.1	0.4	1.1	3.1	8.8	23.4	35.1	89	0.1	0.2	0.5	1.0	2.0	4.1	9.1	15.3
40	0.1	0.1	0.4	1.0	3.1	8.6	23.3	35.6	90	0.1	0.3	0.5	1.0	2.0	4.2	9.0	15.1
41	0.1	0.1	0.4	1.0	3.0	8.4	22.9	36.1	91	0.1	0.3	0.5	1.0	2.1	4.2	9.0	15.0
42	0.1	0.1	0.3	1.0	2.9	8.2	22.4	36.5	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.9
43	0.1	0.2	0.3	0.9	2.8	8.0	21.9	36.8	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.9
44	0.1	0.2	0.3	0.9	2.7	7.8	21.4	36.8	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.9
45	0.1	0.2	0.3	0.9	2.6	7.6	21.0	36.6	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.8
46	0.1	0.2	0.3	0.9	2.6	7.5	20.6	36.2	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.7
47	0.1	0.2	0.3	0.8	2.5	7.3	20.2	35.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.7
48	0.1	0.2	0.3	0.8	2.4	7.1	19.9	34.6	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.7
49	0.1	0.2	0.3	0.8	2.4	6.9	19.6	33.9	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.7
50	0.1	0.2	0.3	0.8	2.3	6.7	19.2	33.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 35 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.2	0.5	0.9	1.5	2.1	2.9	4.3	5.8	51	0.1	0.2	0.3
2	0.2	0.4	1.0	1.6	2.2	3.1	4.6	6.1	52	0.1	0.2	0.3
3	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.4	53	0.1	0.2	0.3
4	0.1	0.4	1.0	1.8	2.5	3.5	5.2	6.8	54	0.1	0.2	0.3
5	0.1	0.4	1.0	1.8	2.7	3.7	5.5	7.1	55	0.1	0.2	0.3
6	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5	56	0.1	0.2	0.3
7	0.1	0.4	1.0	2.0	3.1	4.3	6.2	7.9	57	0.1	0.2	0.4
8	0.1	0.4	1.0	2.0	3.3	4.6	6.6	8.4	58	0.1	0.2	0.4
9	0.1	0.4	1.0	2.1	3.5	4.9	7.0	8.9	59	0.1	0.2	0.4
10	0.1	0.3	0.9	2.1	3.7	5.2	7.4	9.4	60	0.1	0.2	0.4
11	0.1	0.3	0.9	2.1	3.8	5.6	7.9	9.9	61	0.1	0.2	0.4
12	0.1	0.3	0.9	2.2	4.0	5.9	8.3	10.5	62	0.1	0.2	0.4
13	0.1	0.3	0.8	2.2	4.1	6.3	8.9	11.1	63	0.1	0.2	0.4
14	0.1	0.3	0.8	2.2	4.3	6.7	9.4	11.7	64	0.1	0.2	0.4
15	0.1	0.3	0.8	2.2	4.4	7.1	10.0	12.4	65	0.1	0.2	0.4
16	0.1	0.3	0.8	2.1	4.5	7.9	11.3	13.9	66	0.1	0.2	0.4
17	0.1	0.3	0.7	2.0	4.6	8.3	12.0	14.8	67	0.1	0.2	0.4
18	0.1	0.2	0.7	1.9	4.7	8.9	13.6	16.6	68	0.1	0.2	0.4
19	0.1	0.2	0.7	1.9	4.8	9.2	14.4	17.6	69	0.1	0.2	0.4
20	0.1	0.2	0.6	1.8	4.7	9.4	15.2	18.6	70	0.1	0.2	0.4
21	0.1	0.2	0.6	1.7	4.7	9.6	16.0	19.7	71	0.1	0.2	0.4
22	0.1	0.2	0.6	1.7	4.5	9.8	16.8	20.9	72	0.1	0.2	0.4
23	0.1	0.2	0.6	1.6	4.4	10.0	17.6	22.1	73	0.1	0.2	0.4
24	0.1	0.2	0.5	1.6	4.3	10.2	18.4	23.3	74	0.1	0.2	0.4
25	0.1	0.2	0.5	1.5	4.2	10.3	19.0	24.5	75	0.1	0.2	0.4
26	0.1	0.2	0.5	1.5	4.1	10.4	19.7	25.7	76	0.1	0.2	0.4
27	0.1	0.2	0.5	1.4	4.0	10.5	20.3	27.0	77	0.1	0.2	0.4
28	0.1	0.2	0.5	1.4	3.9	10.6	20.8	28.1	78	0.1	0.2	0.4
29	0.1	0.2	0.5	1.4	3.8	10.7	21.3	29.2	79	0.1	0.2	0.4
30	0.1	0.2	0.5	1.3	3.7	10.8	21.7	30.2	80	0.1	0.2	0.4
31	0.1	0.2	0.5	1.3	3.6	10.9	22.1	31.1	81	0.1	0.2	0.4
32	0.1	0.2	0.4	1.2	3.5	11.0	22.4	32.0	82	0.1	0.2	0.4
33	0.1	0.2	0.4	1.2	3.4	11.1	22.7	32.8	83	0.1	0.2	0.4
34	0.1	0.2	0.4	1.2	3.3	11.2	23.0	33.4	84	0.1	0.2	0.4
35	0.1	0.2	0.4	1.1	3.2	11.3	23.2	34.1	85	0.1	0.2	0.4
36	0.1	0.2	0.4	1.1	3.1	11.4	23.4	34.7	86	0.1	0.2	0.4
37	0.1	0.2	0.4	1.1	3.0	11.5	23.6	35.2	87	0.1	0.2	0.4
38	0.1	0.2	0.4	1.0	3.0	11.6	23.8	35.7	88	0.1	0.2	0.4
39	0.1	0.2	0.4	1.0	2.9	11.7	24.0	36.1	89	0.1	0.2	0.4
40	0.1	0.2	0.4	1.0	2.8	11.8	24.2	36.4	90	0.1	0.2	0.4
41	0.1	0.2	0.3	0.9	2.8	11.9	24.4	36.6	91	0.1	0.2	0.4
42	0.1	0.2	0.3	0.9	2.7	12.0	24.6	36.8	92	0.1	0.2	0.4
43	0.1	0.2	0.3	0.9	2.6	12.1	24.8	37.0	93	0.1	0.2	0.4
44	0.1	0.2	0.3	0.9	2.5	12.2	25.0	37.2	94	0.1	0.2	0.4
45	0.1	0.2	0.3	0.8	2.4	12.3	25.2	37.4	95	0.1	0.2	0.4
46	0.1	0.2	0.3	0.8	2.3	12.4	25.4	37.6	96	0.1	0.2	0.4
47	0.1	0.2	0.3	0.8	2.2	12.5	25.6	37.8	97	0.1	0.2	0.4
48	0.1	0.2	0.3	0.8	2.1	12.6	25.8	38.0	98	0.1	0.2	0.4
49	0.1	0.2	0.3	0.8	2.0	12.7	26.0	38.2	99	0.1	0.2	0.4
50	0.1	0.2	0.3	0.8	1.9	12.8	26.2	38.4	100	0.1	0.2	0.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 36 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.2	0.5	0.9	1.5	2.1	3.0	4.4	5.9	51	0.1	0.2	0.3
2	0.2	0.4	1.0	1.6	2.3	3.2	4.7	6.2	52	0.1	0.2	0.3
3	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.6	53	0.1	0.2	0.3
4	0.2	0.4	1.0	1.8	2.6	3.6	5.3	6.9	54	0.1	0.2	0.3
5	0.1	0.4	1.0	1.9	2.8	3.9	5.6	7.3	55	0.1	0.2	0.3
6	0.1	0.4	1.0	1.9	3.0	4.1	6.0	7.7	56	0.1	0.2	0.3
7	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.2	57	0.1	0.2	0.4
8	0.1	0.4	1.0	2.0	3.4	4.7	6.7	8.6	58	0.1	0.2	0.4
9	0.1	0.3	0.9	2.1	3.6	5.0	7.2	9.1	59	0.1	0.2	0.4
10	0.1	0.3	0.9	2.1	3.8	5.4	7.6	9.6	60	0.1	0.2	0.4
11	0.1	0.3	0.9	2.1	3.9	5.7	8.1	10.2	61	0.1	0.2	0.4
12	0.1	0.3	0.9	2.2	4.1	6.1	8.4	10.8	62	0.1	0.2	0.4
13	0.1	0.3	0.8	2.2	4.2	6.5	9.1	11.4	63	0.1	0.2	0.4
14	0.1	0.3	0.8	2.2	4.3	6.9	9.7	12.1	64	0.1	0.2	0.4
15	0.1	0.3	0.8	2.1	4.4	7.3	10.3	12.8	65	0.1	0.2	0.4
16	0.1	0.3	0.8	2.0	4.5	7.7	11.0	13.5	66	0.1	0.2	0.4
17	0.1	0.3	0.7	2.0	4.6	8.1	11.7	14.4	67	0.1	0.2	0.4
18	0.1	0.2	0.7	1.9	4.6	8.4	12.4	15.2	68	0.1	0.2	0.4
19	0.1	0.2	0.7	1.9	4.7	8.7	13.2	16.1	69	0.1	0.2	0.4
20	0.1	0.2	0.7	1.8	4.7	9.0	14.0	17.1	70	0.1	0.2	0.4
21	0.1	0.2	0.6	1.8	4.7	9.3	14.8	18.1	71	0.1	0.2	0.4
22	0.1	0.2	0.6	1.7	4.7	9.5	15.6	19.2	72	0.1	0.2	0.4
23	0.1	0.2	0.6	1.7	4.6	9.7	16.4	20.4	73	0.1	0.2	0.4
24	0.1	0.2	0.6	1.6	4.4	9.9	17.3	21.6	74	0.1	0.2	0.4
25	0.1	0.2	0.6	1.6	4.3	10.0	18.0	22.7	75	0.1	0.2	0.4
26	0.1	0.2	0.5	1.5	4.2	10.2	18.7	23.9	76	0.1	0.2	0.4
27	0.1	0.2	0.5	1.5	4.1	10.3	19.3	25.1	77	0.1	0.2	0.4
28	0.1	0.2	0.5	1.4	4.0	10.4	19.9	26.4	78	0.1	0.2	0.4
29	0.1	0.2	0.5	1.4	3.9	10.4	20.5	27.6	79	0.1	0.2	0.4
30	0.1	0.2	0.5	1.4	3.8	10.3	20.9	28.7	80	0.1	0.2	0.5
31	0.1	0.2	0.4	1.3	3.7	10.1	21.4	29.7	81	0.1	0.2	0.5
32	0.1	0.2	0.4	1.3	3.6	9.8	21.8	30.6	82	0.1	0.2	0.5
33	0.1	0.2	0.4	1.2	3.5	9.6	22.1	31.5	83	0.1	0.2	0.5
34	0.1	0.2	0.4	1.2	3.4	9.3	22.5	32.3	84	0.1	0.2	0.5
35	0.1	0.2	0.4	1.2	3.3	9.1	22.7	33.0	85	0.1	0.2	0.5
36	0.1	0.1	0.4	1.1	3.2	8.9	23.0	33.6	86	0.1	0.2	0.5
37	0.1	0.1	0.4	1.1	3.1	8.8	23.1	34.3	87	0.1	0.2	0.5
38	0.1	0.1	0.4	1.0	3.1	8.6	23.0	34.8	88	0.1	0.2	0.5
39	0.1	0.1	0.4	1.0	3.0	8.4	22.8	35.3	89	0.1	0.2	0.5
40	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.7	90	0.1	0.3	0.5
41	0.1	0.1	0.3	0.9	2.8	8.0	21.7	36.1	91	0.1	0.3	0.5
42	0.1	0.1	0.3	0.9	2.7	7.8	21.3	36.2	92	0.1	0.3	0.5
43	0.1	0.2	0.3	0.9	2.6	7.6	20.8	36.2	93	0.1	0.3	0.5
44	0.1	0.2	0.3	0.9	2.6	7.4	20.4	35.8	94	0.1	0.3	0.5
45	0.1	0.2	0.3	0.8	2.5	7.2	20.0	35.2	95	0.1	0.3	0.5
46	0.1	0.2	0.3	0.8	2.4	7.0	19.7	34.3	96	0.1	0.3	0.5
47	0.1	0.2	0.3	0.8	2.3	6.9	19.4	33.6	97	0.1	0.3	0.5
48	0.1	0.2	0.3	0.8	2.3	6.7	19.0	33.0	98	0.1	0.3	0.5
49	0.1	0.2	0.3	0.8	2.2	6.5	18.6	32.4	99	0.1	0.3	0.6
50	0.1	0.2	0.3	0.8	2.1	6.3	18.2	31.8	100	0.1	0.3	0.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 37 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ								BAND CENTER FREQUENCY, MZ								BAND CENTER FREQUENCY, MZ									
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.2	0.4	0.9	1.6	2.2	3.1	4.6	6.0	51	0.1	0.2	0.3	0.7	2.0	6.0	17.4	30.7	1	0.1	0.2	0.3	0.7	2.0	6.0	17.4	30.7
2	0.2	0.4	1.0	1.7	2.4	3.3	4.8	6.4	52	0.1	0.2	0.3	0.7	2.0	5.0	17.0	30.2	2	0.1	0.2	0.3	0.7	2.0	5.0	17.0	30.2
3	0.2	0.4	1.0	1.8	2.5	3.5	5.1	6.7	53	0.1	0.2	0.3	0.7	1.9	5.7	16.4	29.6	3	0.1	0.2	0.3	0.7	1.9	5.7	16.4	29.6
4	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.1	54	0.1	0.2	0.3	0.7	1.9	5.5	16.2	29.0	4	0.1	0.2	0.3	0.7	1.9	5.5	16.2	29.0
5	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5	55	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.4	5	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.4
6	0.1	0.4	1.0	2.0	3.1	4.3	6.1	7.9	56	0.1	0.2	0.3	0.7	1.8	5.2	15.4	27.8	6	0.1	0.2	0.3	0.7	1.8	5.2	15.4	27.8
7	0.1	0.4	1.0	2.0	3.3	4.5	6.5	8.4	57	0.1	0.2	0.4	0.7	1.8	5.1	15.1	27.2	7	0.1	0.2	0.4	0.7	1.8	5.1	15.1	27.2
8	0.1	0.3	0.9	2.0	3.5	4.9	6.9	9.8	58	0.1	0.2	0.4	0.7	1.7	4.9	14.7	26.6	8	0.1	0.2	0.4	0.7	1.7	4.9	14.7	26.6
9	0.1	0.3	0.9	2.1	3.7	5.2	7.4	9.4	59	0.1	0.2	0.4	0.7	1.7	4.8	14.4	26.0	9	0.1	0.2	0.4	0.7	1.7	4.8	14.4	26.0
10	0.1	0.3	0.9	2.1	3.8	5.6	7.8	9.9	60	0.1	0.2	0.4	0.7	1.7	4.7	14.0	25.5	10	0.1	0.2	0.4	0.7	1.7	4.7	14.0	25.5
11	0.1	0.3	0.9	2.1	4.0	5.9	8.3	10.5	61	0.1	0.2	0.4	0.7	1.7	4.6	13.6	24.9	11	0.1	0.2	0.4	0.7	1.7	4.6	13.6	24.9
12	0.1	0.3	0.8	2.2	4.1	6.3	8.9	11.1	62	0.1	0.2	0.4	0.7	1.7	4.5	13.3	24.4	12	0.1	0.2	0.4	0.7	1.7	4.5	13.3	24.4
13	0.1	0.3	0.8	2.2	4.2	6.7	9.4	11.7	63	0.1	0.2	0.4	0.8	1.7	4.4	13.0	23.9	13	0.1	0.2	0.4	0.8	1.7	4.4	13.0	23.9
14	0.1	0.3	0.8	2.1	4.3	7.1	10.0	12.4	64	0.1	0.2	0.4	0.8	1.6	4.3	12.8	23.4	14	0.1	0.2	0.4	0.8	1.6	4.3	12.8	23.4
15	0.1	0.3	0.8	2.1	4.4	7.5	10.6	13.2	65	0.1	0.2	0.4	0.8	1.6	4.2	12.5	22.8	15	0.1	0.2	0.4	0.8	1.6	4.2	12.5	22.8
16	0.1	0.3	0.7	2.0	4.5	7.9	11.3	13.9	66	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.7	16	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.7
17	0.1	0.2	0.7	1.9	4.6	8.5	12.8	15.7	67	0.1	0.2	0.4	0.8	1.6	4.0	11.5	21.2	17	0.1	0.2	0.4	0.8	1.6	4.0	11.5	21.2
18	0.1	0.2	0.7	1.9	4.6	8.5	12.8	15.7	68	0.1	0.2	0.4	0.8	1.6	3.9	11.2	20.8	18	0.1	0.2	0.4	0.8	1.6	3.9	11.2	20.8
19	0.1	0.2	0.7	1.8	4.7	8.8	13.6	16.4	69	0.1	0.2	0.4	0.8	1.6	3.9	11.0	20.4	19	0.1	0.2	0.4	0.8	1.6	3.9	11.0	20.4
20	0.1	0.2	0.6	1.8	4.7	9.1	14.4	17.4	70	0.1	0.2	0.4	0.8	1.7	3.8	10.7	19.9	20	0.1	0.2	0.4	0.8	1.7	3.8	10.7	19.9
21	0.1	0.2	0.6	1.7	4.7	9.3	15.2	18.7	71	0.1	0.2	0.4	0.8	1.7	3.8	10.5	19.5	21	0.1	0.2	0.4	0.8	1.7	3.8	10.5	19.5
22	0.1	0.2	0.6	1.7	4.6	9.5	16.0	19.8	72	0.1	0.2	0.4	0.8	1.7	3.8	10.3	19.0	22	0.1	0.2	0.4	0.8	1.7	3.8	10.3	19.0
23	0.1	0.2	0.6	1.6	4.4	9.7	16.9	21.0	73	0.1	0.2	0.4	0.9	1.7	3.9	10.1	18.6	23	0.1	0.2	0.4	0.9	1.7	3.9	10.1	18.6
24	0.1	0.2	0.6	1.6	4.3	9.9	17.6	22.2	74	0.1	0.2	0.4	0.9	1.7	3.9	9.9	18.1	24	0.1	0.2	0.4	0.9	1.7	3.9	9.9	18.1
25	0.1	0.2	0.5	1.5	4.2	10.1	18.3	23.3	75	0.1	0.2	0.4	0.9	1.8	3.7	9.7	17.7	25	0.1	0.2	0.4	0.9	1.8	3.7	9.7	17.7
26	0.1	0.2	0.5	1.5	4.1	10.2	19.0	24.5	76	0.1	0.2	0.4	0.9	1.8	3.7	9.6	17.3	26	0.1	0.2	0.4	0.9	1.8	3.7	9.6	17.3
27	0.1	0.2	0.5	1.5	4.0	10.3	19.6	25.8	77	0.1	0.2	0.4	0.9	1.8	3.7	9.4	17.0	27	0.1	0.2	0.4	0.9	1.8	3.7	9.4	17.0
28	0.1	0.2	0.5	1.4	3.9	10.3	20.2	27.0	78	0.1	0.2	0.4	0.9	1.9	3.7	9.3	16.6	28	0.1	0.2	0.4	0.9	1.9	3.7	9.3	16.6
29	0.1	0.2	0.5	1.4	3.8	10.2	20.7	28.1	79	0.1	0.2	0.4	0.9	1.8	3.7	9.2	16.3	29	0.1	0.2	0.4	0.9	1.8	3.7	9.2	16.3
30	0.1	0.2	0.4	1.3	3.7	10.1	21.1	29.2	80	0.1	0.2	0.5	0.9	1.8	3.7	9.0	16.0	30	0.1	0.2	0.5	0.9	1.8	3.7	9.0	16.0
31	0.1	0.2	0.4	1.3	3.6	9.8	21.5	30.1	81	0.1	0.2	0.5	0.9	1.9	3.8	9.0	15.8	31	0.1	0.2	0.5	0.9	1.9	3.8	9.0	15.8
32	0.1	0.2	0.4	1.2	3.5	9.6	21.9	31.0	82	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.3	32	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.3
33	0.1	0.2	0.4	1.2	3.4	9.3	22.2	31.8	83	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.1	33	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.1
34	0.1	0.1	0.4	1.2	3.3	9.1	22.5	32.6	84	0.1	0.2	0.5	0.9	1.9	3.9	8.9	14.9	34	0.1	0.2	0.5	0.9	1.9	3.9	8.9	14.9
35	0.1	0.1	0.4	1.1	3.2	8.9	22.8	33.2	85	0.1	0.2	0.5	1.0	1.9	4.0	8.9	14.8	35	0.1	0.2	0.5	1.0	1.9	4.0	8.9	14.8
36	0.1	0.1	0.4	1.1	3.1	8.8	22.9	34.4	86	0.1	0.2	0.5	1.0	2.0	4.0	8.9	14.8	36	0.1	0.2	0.5	1.0	2.0	4.0	8.9	14.8
37	0.1	0.1	0.4	1.0	3.0	8.6	22.9	34.4	87	0.1	0.2	0.5	1.0	2.0	4.1	8.8	14.6	37	0.1	0.2	0.5	1.0	2.0	4.1	8.8	14.6
38	0.1	0.1	0.4	1.0	3.0	8.4	22.7	35.0	88	0.1	0.2	0.5	1.0	2.0	4.1	8.8	14.5	38	0.1	0.2	0.5	1.0	2.0	4.1	8.8	14.5
39	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.3	89	0.1	0.2	0.5	1.0	2.0	4.2	8.8	14.5	39	0.1	0.2	0.5	1.0	2.0	4.2	8.8	14.5
40	0.1	0.1	0.3	0.9	2.8	8.0	21.7	35.7	90	0.1	0.2	0.5	1.0	2.1	4.2	8.8	14.5	40	0.1	0.2	0.5	1.0	2.1	4.2	8.8	14.5
41	0.1	0.1	0.3	0.9	2.7	7.8	21.2	35.9	91	0.1	0.2	0.5	1.0	2.1	4.3	8.8	14.4	41	0.1	0.2	0.5	1.0	2.1	4.3	8.8	14.4
42	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.9	92	0.1	0.2	0.5	1.0	2.1	4.3	8.8	14.4	42	0.1	0.2	0.5	1.0	2.1	4.3	8.8	14.4
43	0.1	0.1	0.3	0.9	2.6	7.4	20.4	35.7	93	0.1	0.2	0.5	1.0	2.1	4.3	8.9	14.3	43	0.1	0.2	0.5	1.0	2.1	4.3	8.9	14.3
44	0.1	0.1	0.2	0.8	2.5	7.2	20.0	35.1	94	0.1	0.2	0.5	1.1	2.1	4.3	9.0	14.3	44	0.1	0.2	0.5	1.1	2.1	4.3	9.0	14.3
45	0.1	0.1	0.2	0.8	2.4	7.0	19.6	34.3	95	0.1	0.2	0.5	1.1	2.2	4.4	9.1	14.3	45	0.1	0.2	0.5	1.1	2.2	4.4	9.1	14.3
46	0.1	0.1	0.2	0.8	2.3	6.8	19.3	33.5	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.3	46	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.3
47	0.1	0.1	0.2	0.8	2.3	6.7	19.0	32.9	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.3	47	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.3
48	0.1	0.1	0.2	0.8	2.2	6.5	18.6	32.3	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.3	48	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.3
49	0.1	0.1	0.2	0.8	2.1	6.3	18.2	31.7	99	0.1	0.2	0.6	1.1	2.2	4.6	9.5	14.4	49	0.1	0.2	0.6	1.1	2.2	4.6	9.5	14.4
50	0.1	0.1	0.2	0.7	2.1	6.1	17.8	31.1	100	0.1	0.2	0.6	1.1	2.3	4.6	9.6	14.4	50	0.1	0.2	0.6	1.1	2.3	4.6	9.6	14.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 38 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.2	0.4	0.9	1.6	2.3	3.1	4.7	6.2	8.0	10.0	12.5	15.6
2	0.2	0.4	1.0	1.7	2.4	3.4	5.0	6.5	8.3	10.4	12.9	16.1
3	0.1	0.4	1.0	1.8	2.6	3.6	5.3	6.9	8.7	10.9	13.5	16.8
4	0.1	0.4	1.0	1.9	2.8	3.8	5.6	7.3	9.2	11.4	14.0	17.4
5	0.1	0.4	1.0	1.9	3.0	4.1	5.9	7.7	9.7	12.0	14.6	18.1
6	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.1	10.2	12.5	15.1	18.7
7	0.1	0.4	1.0	2.0	3.4	4.7	6.7	8.6	10.8	13.2	15.8	19.5
8	0.1	0.3	0.9	2.1	3.6	5.0	7.1	9.1	11.3	13.7	16.3	19.9
9	0.1	0.3	0.9	2.1	3.7	5.4	7.6	9.6	11.9	14.3	16.9	20.6
10	0.1	0.3	0.9	2.1	3.9	5.7	8.1	10.1	12.5	15.0	17.6	21.3
11	0.1	0.3	0.8	2.1	4.0	6.1	8.6	10.7	13.1	15.6	18.2	22.0
12	0.1	0.3	0.8	2.1	4.2	6.5	9.1	11.4	13.9	16.4	19.0	22.7
13	0.1	0.3	0.8	2.1	4.3	6.9	9.7	12.0	14.5	17.0	19.6	23.4
14	0.1	0.3	0.8	2.1	4.4	7.3	10.3	12.6	15.1	17.6	20.1	24.1
15	0.1	0.3	0.7	2.0	4.4	7.7	11.0	13.5	16.0	18.5	21.0	24.8
16	0.1	0.3	0.7	1.9	4.5	8.0	11.7	14.3	17.0	19.6	22.2	25.5
17	0.1	0.2	0.7	1.9	4.6	8.4	12.4	15.2	18.1	20.8	23.4	26.2
18	0.1	0.2	0.7	1.8	4.6	8.7	13.2	16.1	19.0	21.7	24.3	26.9
19	0.1	0.2	0.6	1.8	4.7	9.0	14.0	17.1	20.0	22.8	25.4	27.6
20	0.1	0.2	0.6	1.8	4.6	9.2	14.8	18.1	21.0	23.9	26.5	28.3
21	0.1	0.2	0.6	1.7	4.6	9.4	15.6	19.2	22.0	25.0	27.6	29.0
22	0.1	0.2	0.6	1.7	4.5	9.6	16.4	20.4	23.0	26.0	28.3	29.7
23	0.1	0.2	0.6	1.6	4.3	9.8	17.2	21.6	24.0	27.0	29.7	30.4
24	0.1	0.2	0.5	1.6	4.2	9.9	17.9	22.7	25.0	28.0	30.0	31.1
25	0.1	0.2	0.5	1.5	4.0	10.2	19.2	23.2	26.0	29.0	31.0	31.8
26	0.1	0.2	0.5	1.5	3.9	10.2	19.8	24.4	27.0	30.0	32.0	32.5
27	0.1	0.2	0.5	1.4	3.8	10.7	20.3	25.5	28.0	31.0	33.0	33.2
28	0.1	0.2	0.5	1.4	3.7	10.1	20.8	26.6	29.0	32.0	34.0	33.9
29	0.1	0.2	0.4	1.3	3.6	9.9	21.2	27.6	30.0	33.0	35.0	34.6
30	0.1	0.2	0.4	1.2	3.5	9.6	21.6	30.5	31.0	34.0	36.0	35.3
31	0.1	0.2	0.4	1.2	3.4	9.3	21.9	31.4	32.0	35.0	37.0	36.0
32	0.1	0.1	0.4	1.2	3.3	9.1	22.2	32.1	33.0	36.0	38.0	36.7
33	0.1	0.1	0.4	1.1	3.2	8.9	22.5	32.7	34.0	37.0	39.0	37.4
34	0.1	0.1	0.4	1.1	3.2	8.7	22.7	33.4	35.0	38.0	40.0	38.1
35	0.1	0.1	0.4	1.1	3.1	8.6	22.7	34.0	36.0	39.0	41.0	38.8
36	0.1	0.1	0.4	1.0	3.0	8.4	22.7	34.5	37.0	40.0	42.0	39.5
37	0.1	0.1	0.4	1.0	2.9	8.2	22.6	35.0	38.0	41.0	43.0	40.2
38	0.1	0.1	0.3	0.9	2.8	8.0	22.3	35.4	39.0	42.0	44.0	40.9
39	0.1	0.1	0.3	0.9	2.7	7.8	21.8	35.6	40.0	43.0	45.0	41.6
40	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.7	41.0	44.0	46.0	42.3
41	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.5	42.0	45.0	47.0	43.0
42	0.1	0.1	0.3	0.8	2.5	7.2	19.9	35.1	43.0	46.0	48.0	43.7
43	0.1	0.1	0.3	0.8	2.4	7.0	19.6	34.3	44.0	47.0	49.0	44.4
44	0.1	0.1	0.3	0.8	2.3	6.8	19.3	33.5	45.0	48.0	50.0	45.1
45	0.1	0.1	0.3	0.8	2.3	6.7	18.9	32.8	46.0	49.0	51.0	45.8
46	0.1	0.1	0.3	0.8	2.2	6.5	18.5	32.2	47.0	50.0	52.0	46.5
47	0.1	0.1	0.3	0.8	2.2	6.3	18.1	31.6	48.0	51.0	53.0	47.2
48	0.1	0.1	0.3	0.8	2.1	6.1	17.7	31.0	49.0	52.0	54.0	47.9
49	0.1	0.1	0.3	0.7	2.1	6.0	17.3	30.5	50.0	53.0	55.0	48.6
50	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.5	51.0	54.0	56.0	49.3

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 39 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000		
1	0.2	0.4	1.0	1.7	2.3	3.2	4.8	6.3	51	0.1
2	0.2	0.4	1.0	1.7	2.5	3.5	5.1	6.7	52	0.1
3	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.0	53	0.1
4	0.1	0.4	1.0	1.9	2.9	3.9	5.7	7.4	54	0.1
5	0.1	0.4	1.0	1.9	3.1	4.2	6.1	7.9	55	0.1
6	0.1	0.4	1.0	2.0	3.3	4.5	6.5	8.3	56	0.1
7	0.1	0.3	0.9	2.0	3.5	4.8	6.9	8.8	57	0.1
8	0.1	0.3	0.9	2.1	3.6	5.2	7.3	9.3	58	0.1
9	0.1	0.3	0.9	2.1	3.8	5.5	7.8	9.8	59	0.1
10	0.1	0.3	0.8	2.1	3.9	5.9	8.3	10.4	60	0.1
11	0.1	0.3	0.8	2.1	4.1	6.3	8.8	11.0	61	0.1
12	0.1	0.3	0.8	2.1	4.2	6.7	9.4	11.7	62	0.1
13	0.1	0.3	0.8	2.1	4.3	7.0	10.0	12.4	63	0.1
14	0.1	0.3	0.8	2.0	4.4	7.5	10.6	13.1	64	0.1
15	0.1	0.3	0.7	2.0	4.5	7.8	11.3	13.9	65	0.1
16	0.1	0.2	0.7	1.9	4.5	8.2	12.0	14.7	66	0.1
17	0.1	0.2	0.7	1.8	4.6	8.5	12.8	15.6	67	0.1
18	0.1	0.2	0.7	1.8	4.6	8.8	13.6	16.6	68	0.1
19	0.1	0.2	0.6	1.8	4.6	9.3	14.4	17.4	69	0.1
20	0.1	0.2	0.6	1.7	4.6	9.5	15.1	18.6	70	0.1
21	0.1	0.2	0.6	1.7	4.5	9.5	16.0	19.8	71	0.1
22	0.1	0.2	0.6	1.6	4.3	9.6	16.8	21.0	72	0.1
23	0.1	0.2	0.5	1.6	4.2	9.8	17.5	22.1	73	0.1
24	0.1	0.2	0.5	1.5	4.1	10.0	18.2	23.3	74	0.1
25	0.1	0.2	0.5	1.5	4.0	10.1	18.9	24.5	75	0.1
26	0.1	0.2	0.5	1.4	3.9	10.2	19.5	25.8	76	0.1
27	0.1	0.2	0.5	1.4	3.8	10.2	20.0	27.0	77	0.1
28	0.1	0.2	0.5	1.3	3.8	10.1	20.5	28.0	78	0.1
29	0.1	0.2	0.4	1.3	3.7	9.9	20.9	29.0	79	0.1
30	0.1	0.2	0.4	1.2	3.6	9.6	21.3	30.0	80	0.1
31	0.1	0.1	0.4	1.2	3.5	9.4	21.7	30.9	81	0.1
32	0.1	0.1	0.4	1.2	3.4	9.1	22.0	31.6	82	0.1
33	0.1	0.1	0.4	1.1	3.3	8.9	22.3	32.3	83	0.1
34	0.1	0.1	0.4	1.1	3.2	8.7	22.5	33.0	84	0.1
35	0.1	0.1	0.4	1.1	3.1	8.4	22.6	33.6	85	0.1
36	0.1	0.1	0.4	1.0	3.0	8.4	22.5	34.1	86	0.1
37	0.1	0.1	0.3	1.0	2.9	8.2	22.3	34.6	87	0.1
38	0.1	0.1	0.3	1.0	2.8	8.0	21.8	35.0	88	0.1
39	0.1	0.1	0.3	0.9	2.7	7.8	21.2	35.3	89	0.1
40	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.4	90	0.1
41	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.3	91	0.1
42	0.1	0.1	0.3	0.8	2.5	7.2	19.9	35.0	92	0.1
43	0.1	0.2	0.3	0.8	2.4	7.0	19.5	34.3	93	0.1
44	0.1	0.2	0.3	0.8	2.4	6.8	19.2	33.4	94	0.1
45	0.1	0.2	0.3	0.8	2.3	6.7	18.9	32.8	95	0.1
46	0.1	0.2	0.3	0.8	2.2	6.5	18.5	32.1	96	0.1
47	0.1	0.2	0.3	0.8	2.1	6.3	18.1	31.5	97	0.1
48	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.9	98	0.1
49	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.4	99	0.1
50	0.1	0.2	0.3	0.7	2.0	5.8	16.9	30.0	100	0.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 40 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, M7									
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.5	51	0.1	0.2	0.3	0.7	1.9	5.5	16.1
2	0.1	0.4	1.0	1.8	2.6	3.5	5.2	6.8	52	0.1	0.2	0.3	0.7	1.8	5.4	15.7
3	0.1	0.4	1.0	1.8	2.6	3.6	5.5	7.2	53	0.1	0.2	0.3	0.7	1.8	5.2	15.3
4	0.1	0.4	1.0	1.9	3.0	4.1	5.9	7.6	54	0.1	0.2	0.3	0.7	1.7	5.1	15.0
5	0.1	0.4	1.0	1.9	3.1	4.3	6.3	8.0	55	0.1	0.2	0.3	0.7	1.7	4.9	14.6
6	0.1	0.3	0.9	2.0	3.3	4.6	6.7	8.5	56	0.1	0.2	0.3	0.7	1.7	4.8	14.3
7	0.1	0.3	0.9	2.0	3.5	5.0	7.1	9.0	57	0.1	0.2	0.4	0.7	1.7	4.7	13.9
8	0.1	0.3	0.9	2.1	3.7	5.3	7.5	9.5	58	0.1	0.2	0.4	0.7	1.6	4.5	13.6
9	0.1	0.3	0.9	2.1	3.8	5.7	8.0	10.1	59	0.1	0.2	0.4	0.7	1.6	4.4	13.2
10	0.1	0.3	0.8	2.1	4.0	6.1	8.5	10.7	60	0.1	0.2	0.4	0.7	1.6	4.3	12.9
11	0.1	0.3	0.8	2.1	4.1	6.4	9.1	11.3	61	0.1	0.2	0.4	0.7	1.6	4.2	12.6
12	0.1	0.3	0.8	2.1	4.2	6.8	9.6	12.0	62	0.1	0.2	0.4	0.7	1.6	4.1	12.3
13	0.1	0.3	0.8	2.0	4.3	7.2	10.3	12.7	63	0.1	0.2	0.4	0.8	1.6	4.1	12.0
14	0.1	0.3	0.7	2.0	4.4	7.6	10.9	13.5	64	0.1	0.2	0.4	0.8	1.6	4.0	11.7
15	0.1	0.2	0.7	1.9	4.5	8.0	11.6	14.3	65	0.1	0.2	0.4	0.8	1.6	3.9	11.4
16	0.1	0.2	0.7	1.9	4.5	8.3	12.4	15.1	66	0.1	0.2	0.4	0.8	1.6	3.9	11.1
17	0.1	0.2	0.7	1.8	4.6	8.6	13.2	16.0	67	0.1	0.2	0.4	0.8	1.6	3.8	10.8
18	0.1	0.2	0.6	1.8	4.6	8.9	13.9	17.0	68	0.1	0.2	0.4	0.8	1.6	3.8	10.6
19	0.1	0.2	0.6	1.7	4.6	9.1	14.7	18.1	69	0.1	0.2	0.4	0.8	1.6	3.7	10.4
20	0.1	0.2	0.6	1.7	4.5	9.3	15.5	19.2	70	0.1	0.2	0.4	0.8	1.7	3.7	10.1
21	0.1	0.2	0.6	1.6	4.4	9.5	16.3	20.3	71	0.1	0.2	0.4	0.8	1.7	3.7	9.9
22	0.1	0.2	0.6	1.6	4.3	9.7	17.1	21.5	72	0.1	0.2	0.4	0.8	1.7	3.7	9.7
23	0.1	0.2	0.5	1.5	4.1	9.8	17.8	22.7	73	0.1	0.2	0.4	0.8	1.7	3.7	9.5
24	0.1	0.2	0.5	1.5	4.0	10.0	18.5	23.9	74	0.1	0.2	0.4	0.8	1.7	3.7	9.3
25	0.1	0.2	0.5	1.4	3.9	10.1	19.1	25.1	75	0.1	0.2	0.4	0.9	1.7	3.6	9.4
26	0.1	0.2	0.5	1.4	3.9	10.1	19.7	26.3	76	0.1	0.2	0.4	0.9	1.7	3.6	9.2
27	0.1	0.2	0.5	1.3	3.8	10.1	20.2	27.4	77	0.1	0.2	0.4	0.9	1.8	3.6	9.1
28	0.1	0.2	0.4	1.3	3.7	9.9	20.6	28.5	78	0.1	0.2	0.4	0.9	1.8	3.7	9.0
29	0.1	0.2	0.4	1.3	3.6	9.7	21.0	29.4	79	0.1	0.2	0.4	0.9	1.8	3.7	8.9
30	0.1	0.1	0.4	1.2	3.5	9.4	21.4	30.3	80	0.1	0.2	0.5	0.9	1.8	3.8	8.7
31	0.1	0.1	0.4	1.2	3.4	9.2	21.7	31.2	81	0.1	0.2	0.5	0.9	1.9	3.8	8.7
32	0.1	0.1	0.4	1.1	3.3	9.0	22.0	31.9	82	0.1	0.2	0.5	0.9	1.9	3.8	8.7
33	0.1	0.1	0.4	1.1	3.2	8.8	22.3	32.5	83	0.1	0.2	0.5	0.9	1.9	3.9	8.6
34	0.1	0.1	0.4	1.1	3.1	8.6	22.4	33.1	84	0.1	0.2	0.5	0.9	1.9	3.9	8.6
35	0.1	0.1	0.4	1.0	3.0	8.4	22.4	33.7	85	0.1	0.2	0.5	1.0	1.9	4.0	8.6
36	0.1	0.1	0.3	1.0	2.9	8.2	22.2	34.2	86	0.1	0.2	0.5	1.0	2.0	4.0	8.5
37	0.1	0.1	0.3	1.0	2.8	8.0	21.9	34.6	87	0.1	0.2	0.5	1.0	2.0	4.0	8.6
38	0.1	0.1	0.3	0.9	2.7	7.8	21.3	35.0	88	0.1	0.2	0.5	1.0	2.0	4.1	8.6
39	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6
40	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.2	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7
41	0.1	0.1	0.3	0.8	2.5	7.2	19.9	34.9	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8
42	0.1	0.1	0.3	0.8	2.4	7.0	19.5	34.3	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9
43	0.1	0.1	0.3	0.8	2.4	6.9	19.2	33.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0
44	0.1	0.1	0.3	0.8	2.3	6.7	18.9	32.7	94	0.1	0.3	0.5	1.1	2.1	4.4	9.1
45	0.1	0.1	0.3	0.8	2.2	6.5	18.5	32.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1
46	0.1	0.1	0.3	0.8	2.1	6.3	18.1	31.5	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2
47	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.9	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3
48	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.4	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4
49	0.1	0.2	0.3	0.7	2.0	5.8	16.9	29.9	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5
50	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.4	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 41 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000		
1	0.1	0.4	1.0	1.7	2.5	3.4	5.0	6.6	51	0.1
2	0.1	0.4	1.0	1.8	2.7	3.6	5.3	7.0	52	0.1
3	0.1	0.4	1.0	1.9	2.8	3.9	5.7	7.4	53	0.1
4	0.1	0.4	1.0	1.9	3.0	4.2	6.0	7.8	54	0.1
5	0.1	0.4	1.0	2.0	3.2	4.5	6.4	8.2	55	0.1
6	0.1	0.3	0.9	2.0	3.4	4.8	6.8	8.7	56	0.1
7	0.1	0.3	0.9	2.0	3.6	5.1	7.3	9.2	57	0.1
8	0.1	0.3	0.9	2.1	3.8	5.5	7.7	9.8	58	0.1
9	0.1	0.3	0.8	2.1	3.9	5.9	8.2	10.3	59	0.1
10	0.1	0.3	0.8	2.1	4.0	6.2	8.7	10.9	60	0.1
11	0.1	0.3	0.8	2.1	4.1	6.6	9.3	11.6	61	0.1
12	0.1	0.3	0.8	2.1	4.2	7.0	9.9	12.3	62	0.1
13	0.1	0.3	0.7	2.0	4.3	7.4	10.5	13.0	63	0.1
14	0.1	0.2	0.7	1.9	4.4	7.8	11.2	13.8	64	0.1
15	0.1	0.2	0.7	1.9	4.5	8.1	11.9	14.6	65	0.1
16	0.1	0.2	0.7	1.8	4.5	8.4	12.7	15.5	66	0.1
17	0.1	0.2	0.6	1.8	4.6	8.7	13.5	16.5	67	0.1
18	0.1	0.2	0.6	1.7	4.6	9.0	14.3	17.5	68	0.1
19	0.1	0.2	0.6	1.7	4.5	9.2	15.1	18.6	69	0.1
20	0.1	0.2	0.6	1.6	4.4	9.4	15.9	19.7	70	0.1
21	0.1	0.2	0.6	1.6	4.3	9.6	16.7	20.9	71	0.1
22	0.1	0.2	0.5	1.5	4.2	9.7	17.4	22.0	72	0.1
23	0.1	0.2	0.5	1.5	4.1	9.9	18.1	23.2	73	0.1
24	0.1	0.2	0.5	1.4	4.0	10.0	18.8	24.4	74	0.1
25	0.1	0.2	0.5	1.4	3.9	10.0	19.3	25.7	75	0.1
26	0.1	0.2	0.5	1.3	3.8	10.0	19.9	26.8	76	0.1
27	0.1	0.2	0.4	1.3	3.7	9.9	20.3	27.9	77	0.1
28	0.1	0.2	0.4	1.3	3.6	9.7	20.7	28.9	78	0.1
29	0.1	0.1	0.4	1.2	3.5	9.4	21.1	29.8	79	0.1
30	0.1	0.1	0.4	1.2	3.4	9.2	21.5	30.6	80	0.1
31	0.1	0.1	0.4	1.1	3.3	9.0	21.8	31.4	81	0.1
32	0.1	0.1	0.4	1.1	3.2	8.8	22.0	32.0	82	0.1
33	0.1	0.1	0.4	1.1	3.1	8.6	22.2	32.7	83	0.1
34	0.1	0.1	0.4	1.0	3.0	8.3	22.3	33.3	84	0.1
35	0.1	0.1	0.3	1.0	2.9	8.3	22.2	33.8	85	0.1
36	0.1	0.1	0.3	1.0	2.8	8.1	21.9	34.2	86	0.1
37	0.1	0.1	0.3	0.9	2.8	7.9	21.4	34.6	87	0.1
38	0.1	0.1	0.3	0.9	2.7	7.7	20.8	34.9	88	0.1
39	0.1	0.1	0.3	0.9	2.6	7.5	20.4	35.0	89	0.1
40	0.1	0.1	0.3	0.8	2.5	7.3	19.9	35.8	90	0.1
41	0.1	0.1	0.3	0.8	2.4	7.1	19.5	36.3	91	0.1
42	0.1	0.1	0.3	0.8	2.4	6.9	19.2	36.6	92	0.1
43	0.1	0.2	0.3	0.8	2.3	6.7	18.8	37.7	93	0.1
44	0.1	0.2	0.3	0.8	2.2	6.5	18.5	38.1	94	0.1
45	0.1	0.2	0.3	0.8	2.1	6.3	18.1	38.4	95	0.1
46	0.1	0.2	0.3	0.7	2.1	6.2	17.7	38.9	96	0.1
47	0.1	0.2	0.3	0.7	2.0	6.0	17.3	39.3	97	0.1
48	0.1	0.2	0.3	0.7	2.0	5.8	16.9	39.8	98	0.1
49	0.1	0.2	0.3	0.7	1.9	5.7	16.5	40.3	99	0.1
50	0.1	0.2	0.3	0.7	1.9	5.5	16.1	40.8	100	0.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 42 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	0.1	0.4	1.0	1.7	2.5	3.5	5.1	6.7	51	0.1	0.2	0.3	0.7	1.8	5.2	15.3	27.6
2	0.1	0.4	1.0	1.8	2.7	3.7	5.5	7.1	52	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0
3	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5	53	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.4
4	0.1	0.4	1.0	1.9	3.1	4.3	6.2	8.0	54	0.1	0.2	0.3	0.7	1.7	4.9	14.3	25.8
5	0.1	0.3	0.9	2.0	3.3	4.6	6.6	8.4	55	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.2
6	0.1	0.3	0.9	2.0	3.5	4.9	7.0	9.9	56	0.1	0.2	0.3	0.7	1.6	4.5	13.6	24.7
7	0.1	0.3	0.9	2.0	3.7	5.1	7.4	9.4	57	0.1	0.2	0.4	0.7	1.6	4.4	13.2	24.1
8	0.1	0.3	0.8	2.1	3.8	5.6	7.9	10.0	58	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.6
9	0.1	0.3	0.8	2.1	3.9	6.0	8.4	10.6	59	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
10	0.1	0.3	0.8	2.1	4.1	6.4	9.0	11.7	60	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
11	0.1	0.3	0.8	2.1	4.2	6.8	9.5	11.9	61	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.0
12	0.1	0.3	0.7	2.0	4.3	7.2	10.7	12.6	62	0.1	0.2	0.4	0.7	1.6	4.0	11.7	21.5
13	0.1	0.3	0.7	1.9	4.4	7.6	10.8	13.3	63	0.1	0.2	0.4	0.8	1.6	3.9	11.4	20.9
14	0.1	0.2	0.7	1.9	4.5	7.9	11.5	14.2	64	0.1	0.2	0.4	0.8	1.6	3.8	11.1	20.5
15	0.1	0.2	0.7	1.8	4.5	8.2	12.3	15.0	65	0.1	0.2	0.4	0.8	1.6	3.8	10.8	20.0
16	0.1	0.2	0.7	1.8	4.5	8.5	13.1	15.9	66	0.1	0.2	0.4	0.8	1.6	3.7	10.5	19.6
17	0.1	0.2	0.6	1.7	4.6	8.8	13.8	16.9	67	0.1	0.2	0.4	0.8	1.6	3.7	10.3	19.2
18	0.1	0.2	0.6	1.7	4.5	9.0	14.6	17.9	68	0.1	0.2	0.4	0.8	1.6	3.7	10.1	18.7
19	0.1	0.2	0.6	1.7	4.5	9.2	15.4	19.0	69	0.1	0.2	0.4	0.8	1.6	3.7	9.9	18.3
20	0.1	0.2	0.6	1.6	4.3	9.4	16.2	20.2	70	0.1	0.2	0.4	0.8	1.7	3.6	9.7	17.8
21	0.1	0.2	0.5	1.6	4.2	9.6	17.0	21.4	71	0.1	0.2	0.4	0.8	1.7	3.6	9.5	17.4
22	0.1	0.2	0.5	1.5	4.1	9.7	17.7	22.5	72	0.1	0.2	0.4	0.8	1.7	3.6	9.3	17.0
23	0.1	0.2	0.5	1.5	4.0	9.9	18.4	23.7	73	0.1	0.2	0.4	0.8	1.7	3.6	9.2	16.6
24	0.1	0.2	0.5	1.4	3.9	10.0	19.5	25.0	74	0.1	0.2	0.4	0.9	1.7	3.6	9.0	16.3
25	0.1	0.2	0.5	1.4	3.8	10.0	19.5	26.2	75	0.1	0.2	0.4	0.9	1.7	3.6	8.9	15.9
26	0.1	0.2	0.5	1.3	3.7	9.9	20.0	27.3	76	0.1	0.2	0.4	0.9	1.8	3.6	8.8	15.6
27	0.1	0.2	0.4	1.3	3.6	9.8	20.4	28.3	77	0.1	0.2	0.4	0.9	1.8	3.6	8.7	15.4
28	0.1	0.1	0.4	1.2	3.5	9.5	20.8	29.2	78	0.1	0.2	0.4	0.9	1.8	3.7	8.6	15.1
29	0.1	0.1	0.4	1.2	3.4	9.2	21.2	30.1	79	0.1	0.2	0.4	0.9	1.8	3.7	8.6	14.9
30	0.1	0.1	0.4	1.1	3.3	9.0	21.5	30.9	80	0.1	0.2	0.5	0.9	1.8	3.8	8.6	14.7
31	0.1	0.1	0.4	1.1	3.2	8.8	21.8	31.6	81	0.1	0.2	0.5	0.9	1.9	3.8	8.5	14.5
32	0.1	0.1	0.4	1.1	3.1	8.6	22.0	32.2	82	0.1	0.2	0.5	0.9	1.9	3.8	8.5	14.3
33	0.1	0.1	0.4	1.0	3.0	8.4	22.1	32.8	83	0.1	0.2	0.5	0.9	1.9	3.9	8.4	14.1
34	0.1	0.1	0.3	1.0	2.9	8.3	22.1	33.4	84	0.1	0.2	0.5	0.9	1.9	3.9	8.4	14.0
35	0.1	0.1	0.3	1.0	2.9	8.1	21.9	33.8	85	0.1	0.2	0.5	1.0	1.9	4.0	8.4	13.9
36	0.1	0.1	0.3	0.9	2.8	7.9	21.5	34.3	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.9
37	0.1	0.1	0.3	0.9	2.7	7.7	20.8	34.6	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.9
38	0.1	0.1	0.3	0.9	2.6	7.5	20.4	34.7	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.8
39	0.1	0.1	0.3	0.9	2.5	7.3	19.9	34.7	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.7
40	0.1	0.1	0.3	0.8	2.4	7.1	19.5	34.3	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.7
41	0.1	0.1	0.3	0.8	2.4	6.9	19.2	33.7	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.7
42	0.1	0.1	0.3	0.8	2.3	6.7	18.8	32.8	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.7
43	0.1	0.1	0.3	0.8	2.3	6.5	18.5	32.1	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.8	2.2	6.4	18.1	31.5	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.8	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.3	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.7	2.0	5.8	16.9	29.8	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.3	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.8	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.2	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 44 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.0	T	51	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.5
2	0.1	0.4	1.0	1.9	2.9	3.9	5.7	7.4	E	52	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.9
3	0.1	0.4	1.0	1.9	3.1	4.2	6.1	7.8	M	53	0.1	0.2	0.3	0.7	1.5	4.7	14.0	25.3
4	0.1	0.3	0.9	1.9	3.2	4.5	6.5	8.3	P	54	0.1	0.2	0.3	0.7	1.6	4.6	13.6	24.7
5	0.1	0.3	0.9	2.0	3.4	4.8	6.9	8.8	R	55	0.1	0.2	0.3	0.7	1.6	4.4	13.3	24.1
6	0.1	0.3	0.9	2.0	3.6	5.2	7.3	9.3	A	56	0.1	0.2	0.3	0.7	1.6	4.3	12.9	23.6
7	0.1	0.3	0.8	2.1	3.8	5.5	7.8	9.9	T	57	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
8	0.1	0.3	0.8	2.1	3.9	5.9	8.3	10.4	U	58	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
9	0.1	0.3	0.8	2.1	4.0	6.3	8.9	11.1	E	59	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.1
10	0.1	0.3	0.8	2.1	4.1	6.7	9.4	11.7	M	60	0.1	0.2	0.4	0.7	1.5	3.9	11.7	21.5
11	0.1	0.3	0.7	2.0	4.2	7.1	10.0	12.4	P	61	0.1	0.2	0.4	0.7	1.5	3.9	11.4	21.0
12	0.1	0.3	0.7	1.9	4.3	7.5	10.7	13.2	R	62	0.1	0.2	0.4	0.7	1.5	3.8	11.1	20.4
13	0.1	0.2	0.7	1.9	4.4	7.8	11.4	14.0	A	63	0.1	0.2	0.4	0.8	1.5	3.8	10.8	20.0
14	0.1	0.2	0.7	1.8	4.4	8.1	12.1	14.9	T	64	0.1	0.2	0.4	0.8	1.5	3.7	10.5	19.6
15	0.1	0.2	0.6	1.8	4.5	8.4	12.9	15.8	R	65	0.1	0.2	0.4	0.8	1.6	3.6	10.3	19.2
16	0.1	0.2	0.6	1.7	4.5	8.7	13.7	16.7	A	66	0.1	0.2	0.4	0.8	1.6	3.6	10.1	18.7
17	0.1	0.2	0.6	1.7	4.5	8.9	14.5	17.8	T	67	0.1	0.2	0.4	0.8	1.6	3.6	9.8	18.3
18	0.1	0.2	0.6	1.6	4.4	9.1	15.3	18.9	U	68	0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.8
19	0.1	0.2	0.6	1.6	4.3	9.3	16.1	20.1	E	69	0.1	0.2	0.4	0.8	1.6	3.6	9.4	17.4
20	0.1	0.2	0.5	1.5	4.1	9.5	16.9	21.2	R	70	0.1	0.2	0.4	0.8	1.7	3.5	9.3	16.9
21	0.1	0.2	0.5	1.5	4.0	9.6	17.6	22.4	M	71	0.1	0.2	0.4	0.8	1.7	3.5	9.1	16.5
22	0.1	0.2	0.5	1.4	3.9	9.8	18.2	23.6	P	72	0.1	0.2	0.4	0.8	1.7	3.5	9.0	16.2
23	0.1	0.2	0.5	1.4	3.8	9.9	18.8	24.8	A	73	0.1	0.2	0.4	0.8	1.7	3.5	8.8	15.9
24	0.1	0.2	0.5	1.3	3.7	9.9	19.4	26.0	T	74	0.1	0.2	0.4	0.9	1.7	3.5	8.7	15.6
25	0.1	0.2	0.4	1.3	3.7	9.8	19.8	27.1	E	75	0.1	0.2	0.4	0.9	1.7	3.6	8.6	15.3
26	0.1	0.2	0.4	1.3	3.6	9.6	20.2	28.1	G	76	0.1	0.2	0.4	0.9	1.8	3.6	8.5	15.0
27	0.1	0.1	0.4	1.2	3.5	9.4	20.6	29.0	R	77	0.1	0.2	0.4	0.9	1.8	3.6	8.4	14.8
28	0.1	0.1	0.4	1.2	3.4	9.1	21.0	29.9	U	78	0.1	0.2	0.4	0.9	1.8	3.7	8.4	14.5
29	0.1	0.1	0.4	1.1	3.3	8.9	21.3	30.6	E	79	0.1	0.2	0.4	0.9	1.8	3.7	8.4	14.2
30	0.1	0.1	0.4	1.1	3.2	8.7	21.6	31.3	S	80	0.1	0.2	0.5	0.9	1.8	3.8	8.4	14.2
31	0.1	0.1	0.4	1.1	3.1	8.5	21.8	31.9	F	81	0.1	0.2	0.5	0.9	1.9	3.8	8.3	14.0
32	0.1	0.1	0.4	1.0	3.0	8.3	21.9	32.5	A	82	0.1	0.2	0.5	0.9	1.9	3.8	8.3	13.8
33	0.1	0.1	0.3	1.0	2.9	8.1	21.8	33.0	H	83	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.7
34	0.1	0.1	0.3	1.0	2.8	7.9	21.6	33.5	R	84	0.1	0.2	0.5	0.9	1.9	4.0	8.3	13.6
35	0.1	0.1	0.3	0.9	2.7	7.8	21.1	33.9	E	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.6
36	0.1	0.1	0.3	0.9	2.6	7.6	20.5	34.2	M	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.6
37	0.1	0.1	0.3	0.9	2.5	7.4	20.0	34.3	H	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.6
38	0.1	0.1	0.3	0.8	2.5	7.2	19.6	34.2	E	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.5
39	0.1	0.1	0.3	0.8	2.4	7.0	19.2	33.8	T	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.5
40	0.1	0.1	0.3	0.8	2.3	6.8	18.8	33.1	P	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.5
41	0.1	0.1	0.3	0.8	2.3	6.6	18.5	32.2	A	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.5
42	0.1	0.1	0.3	0.8	2.2	6.4	18.2	31.5	R	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.3	0.7	2.1	6.2	17.8	30.9	U	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
44	0.1	0.1	0.3	0.7	2.0	6.1	17.4	30.3	E	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.1	0.3	0.7	2.0	5.9	17.0	29.8	M	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.1	0.3	0.7	1.9	5.7	16.6	29.3	P	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.1	0.3	0.7	1.9	5.5	16.2	28.8	A	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.1	0.3	0.7	1.8	5.4	15.8	28.2	T	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.5
49	0.1	0.1	0.3	0.7	1.8	5.3	15.4	27.6	E	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.1	0.3	0.7	1.7	5.1	15.0	27.0	U	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 45 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.1	0.4	1.0	1.8	2.8	3.8	5.5	7.2	51		0.1	0.2	0.3	0.7	1.7	4.9	14.3	25.9
2	0.1	0.4	1.0	1.9	2.9	4.0	5.9	7.6	52		0.1	0.2	0.3	0.7	1.6	4.7	14.0	25.3
3	0.1	0.3	0.9	1.9	3.1	4.3	6.2	8.0	53		0.1	0.2	0.3	0.7	1.6	4.6	13.7	24.7
4	0.1	0.3	0.9	2.0	3.3	4.6	6.6	8.5	54		0.1	0.2	0.3	0.7	1.6	4.4	13.3	24.2
5	0.1	0.3	0.9	2.0	3.5	5.0	7.1	9.0	55		0.1	0.2	0.3	0.7	1.6	4.3	12.9	23.6
6	0.1	0.3	0.9	2.0	3.7	5.3	7.5	9.5	56		0.1	0.2	0.3	0.7	1.6	4.2	12.6	23.1
7	0.1	0.3	0.9	2.1	3.8	5.7	8.0	10.1	57		0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
8	0.1	0.3	0.9	2.1	3.9	6.1	8.5	10.7	58		0.1	0.2	0.4	0.7	1.5	4.0	12.0	22.1
9	0.1	0.3	0.9	2.1	4.1	6.4	9.1	11.3	59		0.1	0.2	0.4	0.7	1.5	3.9	11.8	21.6
10	0.1	0.3	0.9	2.0	4.1	6.0	9.7	12.0	60		0.1	0.2	0.4	0.7	1.5	3.9	11.5	21.0
11	0.1	0.3	0.7	2.0	4.2	7.2	10.3	12.7	61		0.1	0.2	0.4	0.7	1.5	3.8	11.2	20.5
12	0.1	0.2	0.7	1.9	4.3	7.6	11.0	13.5	62		0.1	0.2	0.4	0.7	1.5	3.7	10.9	20.0
13	0.1	0.2	0.7	1.8	4.4	7.9	11.7	14.3	63		0.1	0.2	0.4	0.8	1.5	3.7	10.6	19.6
14	0.1	0.2	0.7	1.8	4.4	8.2	12.5	15.2	64		0.1	0.2	0.4	0.8	1.5	3.6	10.3	19.2
15	0.1	0.2	0.6	1.7	4.5	8.5	13.2	16.2	65		0.1	0.2	0.4	0.8	1.6	3.6	10.1	18.7
16	0.1	0.2	0.6	1.7	4.5	8.8	14.0	17.2	66		0.1	0.2	0.4	0.8	1.6	3.6	9.8	18.3
17	0.1	0.2	0.6	1.6	4.4	9.0	14.8	18.2	67		0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.8
18	0.1	0.2	0.6	1.6	4.3	9.2	15.6	19.4	68		0.1	0.2	0.4	0.8	1.6	3.6	9.4	17.4
19	0.1	0.2	0.5	1.6	4.2	9.4	16.4	20.6	69		0.1	0.2	0.4	0.8	1.6	3.5	9.2	16.9
20	0.1	0.2	0.5	1.5	4.1	9.5	17.1	21.7	70		0.1	0.2	0.4	0.8	1.7	3.5	9.1	16.5
21	0.1	0.2	0.5	1.5	4.0	9.7	17.8	22.8	71		0.1	0.2	0.4	0.8	1.7	3.5	8.9	15.9
22	0.1	0.2	0.5	1.4	3.9	9.8	18.4	24.0	72		0.1	0.2	0.4	0.8	1.7	3.5	8.7	15.5
23	0.1	0.2	0.5	1.4	3.8	9.8	19.0	25.3	73		0.1	0.2	0.4	0.8	1.7	3.5	8.6	15.2
24	0.1	0.2	0.5	1.3	3.7	9.8	19.5	26.4	74		0.1	0.2	0.4	0.9	1.7	3.5	8.5	15.0
25	0.1	0.2	0.4	1.3	3.6	9.7	19.9	27.4	75		0.1	0.2	0.4	0.9	1.7	3.6	8.5	14.7
26	0.1	0.1	0.4	1.2	3.5	9.4	20.3	28.4	76		0.1	0.2	0.4	0.9	1.8	3.6	8.4	14.5
27	0.1	0.1	0.4	1.2	3.4	9.2	20.7	29.3	77		0.1	0.2	0.4	0.9	1.8	3.6	8.4	14.5
28	0.1	0.1	0.4	1.1	3.3	9.9	21.0	30.1	78		0.1	0.2	0.4	0.9	1.8	3.7	8.3	14.1
29	0.1	0.1	0.4	1.1	3.2	9.7	21.3	30.8	79		0.1	0.2	0.4	0.9	1.8	3.7	8.3	14.1
30	0.1	0.1	0.4	1.1	3.1	8.5	21.6	31.5	80		0.1	0.2	0.5	0.9	1.8	3.8	8.3	13.9
31	0.1	0.1	0.4	1.0	3.0	8.3	21.7	32.1	81		0.1	0.2	0.5	0.9	1.9	3.8	8.2	13.8
32	0.1	0.1	0.4	1.0	2.9	8.2	21.7	32.6	82		0.1	0.2	0.5	0.9	1.9	3.8	8.2	13.7
33	0.1	0.1	0.3	1.0	2.8	9.0	21.6	33.1	83		0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.6
34	0.1	0.1	0.3	0.9	2.7	7.8	21.2	33.5	84		0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.6
35	0.1	0.1	0.3	0.9	2.7	7.6	20.6	33.9	85		0.1	0.2	0.5	1.0	2.0	4.0	8.2	13.5
36	0.1	0.1	0.3	0.9	2.6	7.4	20.1	34.1	86		0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.5
37	0.1	0.1	0.3	0.8	2.5	7.2	19.7	34.1	87		0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.4
38	0.1	0.1	0.3	0.8	2.4	7.0	19.3	33.8	88		0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.4
39	0.1	0.1	0.3	0.8	2.3	6.8	18.9	33.2	89		0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.4
40	0.1	0.1	0.3	0.8	2.3	6.6	18.5	32.3	90		0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.4
41	0.1	0.1	0.3	0.8	2.2	6.4	18.2	31.6	91		0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.7	2.1	6.3	17.8	31.0	92		0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.3	0.7	2.1	6.1	17.4	30.3	93		0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
44	0.1	0.1	0.3	0.7	2.0	5.9	17.0	29.8	94		0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.1	0.3	0.7	1.9	5.7	16.6	29.3	95		0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.8	96		0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.1	0.3	0.7	1.8	5.4	15.8	28.3	97		0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.1	0.3	0.7	1.8	5.3	15.5	27.7	98		0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.1	0.3	0.7	1.7	5.2	15.1	27.1	99		0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.5	100		0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 46 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ											
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.4	1.0	1.8	2.8	3.9	5.6	7.3	51	0.1	0.2	0.3	0.7	1.6	4.7	14.0	25.4
2	0.1	0.4	0.9	1.9	3.0	4.1	6.0	7.7	52	0.1	0.2	0.3	0.7	1.6	4.6	13.7	24.8
3	0.1	0.3	0.9	1.9	3.2	4.4	6.4	8.2	53	0.1	0.2	0.3	0.7	1.6	4.5	13.4	24.2
4	0.1	0.3	0.9	2.0	3.4	4.8	6.8	8.7	54	0.1	0.2	0.3	0.7	1.6	4.3	13.0	23.7
5	0.1	0.3	0.9	2.0	3.6	5.1	7.2	9.2	55	0.1	0.2	0.3	0.7	1.6	4.2	12.6	23.1
6	0.1	0.3	0.9	2.0	3.7	5.5	7.7	9.7	56	0.1	0.2	0.3	0.7	1.6	4.1	12.3	22.6
7	0.1	0.3	0.8	2.1	3.8	5.8	8.2	10.3	57	0.1	0.2	0.4	0.7	1.5	4.0	12.1	22.1
8	0.1	0.3	0.8	2.1	4.0	6.2	8.7	10.9	58	0.1	0.2	0.4	0.7	1.5	3.9	11.8	21.6
9	0.1	0.3	0.8	2.0	4.1	6.6	9.3	11.6	59	0.1	0.2	0.4	0.7	1.5	3.9	11.5	21.1
10	0.1	0.3	0.7	2.0	4.2	7.0	9.9	12.3	60	0.1	0.2	0.4	0.7	1.5	3.8	11.2	20.5
11	0.1	0.2	0.7	1.9	4.3	7.4	10.5	13.0	61	0.1	0.2	0.4	0.7	1.5	3.7	10.9	20.0
12	0.1	0.2	0.7	1.9	4.3	7.7	11.2	13.8	62	0.1	0.2	0.4	0.7	1.5	3.7	10.6	19.6
13	0.1	0.2	0.7	1.8	4.4	8.0	12.0	14.7	63	0.1	0.2	0.4	0.8	1.5	3.6	10.3	19.2
14	0.1	0.2	0.6	1.8	4.5	8.3	12.8	15.6	64	0.1	0.2	0.4	0.8	1.5	3.6	10.1	18.8
15	0.1	0.2	0.6	1.7	4.5	8.6	13.5	16.5	65	0.1	0.2	0.4	0.8	1.6	3.6	9.8	18.3
16	0.1	0.2	0.6	1.7	4.4	8.8	14.3	17.6	66	0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.9
17	0.1	0.2	0.6	1.6	4.4	9.0	15.1	18.7	67	0.1	0.2	0.4	0.8	1.6	3.5	9.4	17.4
18	0.1	0.2	0.6	1.6	4.2	9.2	15.9	19.8	68	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.0
19	0.1	0.2	0.5	1.5	4.1	9.4	16.7	21.0	69	0.1	0.2	0.4	0.8	1.6	3.5	9.1	16.5
20	0.1	0.2	0.5	1.5	4.0	9.5	17.4	22.1	70	0.1	0.2	0.4	0.8	1.7	3.5	8.9	16.2
21	0.1	0.2	0.5	1.4	3.9	9.7	18.0	23.3	71	0.1	0.2	0.4	0.8	1.7	3.5	8.8	15.9
22	0.1	0.2	0.5	1.4	3.8	9.8	18.6	24.5	72	0.1	0.2	0.4	0.8	1.7	3.5	8.7	15.5
23	0.1	0.2	0.5	1.3	3.7	9.8	19.2	25.7	73	0.1	0.2	0.4	0.8	1.7	3.5	8.5	15.2
24	0.1	0.2	0.4	1.3	3.6	9.7	19.6	26.8	74	0.1	0.2	0.4	0.9	1.7	3.5	8.4	14.9
25	0.1	0.1	0.4	1.2	3.5	9.5	20.0	27.8	75	0.1	0.2	0.4	0.9	1.7	3.6	8.3	14.7
26	0.1	0.1	0.4	1.2	3.4	9.2	20.4	28.7	76	0.1	0.2	0.4	0.9	1.8	3.6	8.3	14.5
27	0.1	0.1	0.4	1.2	3.3	9.0	20.8	29.6	77	0.1	0.2	0.4	0.9	1.8	3.6	8.3	14.3
28	0.1	0.1	0.4	1.1	3.2	8.8	21.1	30.4	78	0.1	0.2	0.4	0.9	1.8	3.7	8.3	14.1
29	0.1	0.1	0.4	1.1	3.1	8.6	21.4	31.0	79	0.1	0.2	0.4	0.9	1.8	3.7	8.2	13.9
30	0.1	0.1	0.4	1.0	3.0	8.4	21.6	31.6	80	0.1	0.2	0.5	0.9	1.8	3.8	8.2	13.7
31	0.1	0.1	0.3	1.0	2.9	8.2	21.6	32.2	81	0.1	0.2	0.5	0.9	1.9	3.8	8.2	13.6
32	0.1	0.1	0.3	1.0	2.8	8.0	21.5	32.7	82	0.1	0.2	0.5	0.9	1.9	3.8	8.2	13.5
33	0.1	0.1	0.3	0.9	2.8	7.8	21.3	33.2	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.5
34	0.1	0.1	0.3	0.9	2.7	7.6	20.8	33.6	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.5
35	0.1	0.1	0.3	0.9	2.6	7.4	20.2	33.9	85	0.1	0.2	0.5	1.0	1.9	4.0	8.2	13.4
36	0.1	0.1	0.3	0.8	2.5	7.2	19.8	33.9	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.3
37	0.1	0.1	0.3	0.8	2.4	7.0	19.3	33.7	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.3
38	0.1	0.1	0.3	0.8	2.4	6.8	18.9	33.3	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.3
39	0.1	0.1	0.3	0.8	2.3	6.7	18.6	32.5	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.3
40	0.1	0.1	0.3	0.8	2.2	6.5	18.2	31.7	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.7	2.1	6.3	17.9	31.0	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.7	2.1	6.1	17.5	30.4	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.2	0.7	2.0	6.0	17.1	29.8	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.7	1.9	5.8	16.7	29.3	94	0.1	0.3	0.5	1.1	2.1	4.4	9.1	13.9
45	0.1	0.2	0.3	0.7	1.9	5.6	16.3	28.8	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
46	0.1	0.2	0.3	0.7	1.8	5.4	15.9	28.3	96	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
47	0.1	0.2	0.3	0.7	1.8	5.3	15.5	27.7	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
48	0.1	0.2	0.3	0.7	1.7	5.2	15.1	27.2	98	0.1	0.3	0.5	1.1	2.2	4.6	9.5	14.5
49	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.6	99	0.1	0.3	0.6	1.1	2.2	4.6	9.6	14.6
50	0.1	0.2	0.3	0.7	1.7	4.9	14.4	26.0	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 47 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	31500
1	0.1	0.4	0.9	1.8	2.9	4.0	5.8	7.4	9.1	10.8
2	0.1	0.3	0.9	1.9	3.1	4.2	6.1	7.9	9.6	11.3
3	0.1	0.3	0.9	1.9	3.3	4.5	6.5	8.3	10.0	11.7
4	0.1	0.3	0.9	2.0	3.4	4.9	6.9	8.6	10.3	12.0
5	0.1	0.3	0.9	2.0	3.6	5.2	7.4	9.4	11.4	13.4
6	0.1	0.3	0.9	2.0	3.8	5.6	7.9	9.9	11.9	13.9
7	0.1	0.3	0.9	2.0	3.9	6.0	8.4	10.5	12.5	14.5
8	0.1	0.3	0.9	2.0	4.0	6.3	8.9	11.1	13.1	15.1
9	0.1	0.3	0.9	2.0	4.1	6.7	9.5	11.8	13.8	15.8
10	0.1	0.3	0.9	2.0	4.2	7.1	10.1	12.5	14.5	16.5
11	0.1	0.3	0.9	2.0	4.3	7.5	10.8	13.3	15.3	17.3
12	0.1	0.3	0.9	2.0	4.3	7.8	11.5	14.1	16.1	18.1
13	0.1	0.3	0.9	2.0	4.4	8.1	12.3	15.0	17.0	19.0
14	0.1	0.3	0.9	2.0	4.4	8.4	13.1	15.9	17.9	19.9
15	0.1	0.3	0.9	2.0	4.4	8.7	13.8	16.9	18.9	20.9
16	0.1	0.3	0.9	2.0	4.4	8.9	14.6	18.0	20.0	22.0
17	0.1	0.3	0.9	2.0	4.4	9.1	15.4	19.1	21.1	23.1
18	0.1	0.3	0.9	2.0	4.4	9.3	16.2	20.3	22.3	24.3
19	0.1	0.3	0.9	2.0	4.4	9.4	16.9	21.4	23.4	25.4
20	0.1	0.3	0.9	2.0	4.4	9.5	17.6	22.6	24.6	26.6
21	0.1	0.3	0.9	2.0	4.4	9.7	18.2	23.8	25.8	27.8
22	0.1	0.3	0.9	2.0	4.4	9.7	18.8	25.0	27.0	29.0
23	0.1	0.3	0.9	2.0	4.4	9.7	19.3	26.1	28.1	30.1
24	0.1	0.3	0.9	2.0	4.4	9.6	19.7	27.1	29.1	31.1
25	0.1	0.3	0.9	2.0	4.4	9.3	20.1	28.1	30.1	32.1
26	0.1	0.3	0.9	2.0	4.4	9.1	20.5	29.0	31.0	33.0
27	0.1	0.3	0.9	2.0	4.4	8.8	20.8	29.8	31.8	33.8
28	0.1	0.3	0.9	2.0	4.4	8.6	21.1	30.5	32.5	34.5
29	0.1	0.3	0.9	2.0	4.4	8.4	21.4	31.2	33.2	35.2
30	0.1	0.3	0.9	2.0	4.4	8.2	21.5	31.8	33.8	35.8
31	0.1	0.3	0.9	2.0	4.4	8.1	21.5	32.3	34.3	36.3
32	0.1	0.3	0.9	2.0	4.4	7.9	21.3	32.8	34.8	36.8
33	0.1	0.3	0.9	2.0	4.4	7.7	20.9	33.2	35.2	37.2
34	0.1	0.3	0.9	2.0	4.4	7.5	20.3	33.6	35.6	37.6
35	0.1	0.3	0.9	2.0	4.4	7.3	19.8	33.7	35.7	37.7
36	0.1	0.3	0.9	2.0	4.4	7.1	19.4	33.6	35.6	37.6
37	0.1	0.3	0.9	2.0	4.4	6.9	19.0	33.3	35.3	37.3
38	0.1	0.3	0.9	2.0	4.4	6.7	18.6	32.7	34.7	36.7
39	0.1	0.3	0.9	2.0	4.4	6.5	18.3	31.8	33.8	35.8
40	0.1	0.3	0.9	2.0	4.4	6.3	18.0	31.1	33.1	35.1
41	0.1	0.3	0.9	2.0	4.4	6.2	17.6	30.5	32.5	34.5
42	0.1	0.3	0.9	2.0	4.4	6.0	17.2	29.9	31.9	33.9
43	0.1	0.3	0.9	2.0	4.4	5.8	16.8	29.3	31.3	33.3
44	0.1	0.3	0.9	2.0	4.4	5.6	16.4	28.8	30.8	32.8
45	0.1	0.3	0.9	2.0	4.4	5.5	16.0	28.4	30.4	32.4
46	0.1	0.3	0.9	2.0	4.4	5.3	15.6	27.8	29.8	31.8
47	0.1	0.3	0.9	2.0	4.4	5.2	15.2	27.2	29.2	31.2
48	0.1	0.3	0.9	2.0	4.4	5.1	14.8	26.6	28.6	30.6
49	0.1	0.3	0.9	2.0	4.4	4.9	14.4	26.1	28.1	30.1
50	0.1	0.3	0.9	2.0	4.4	4.8	14.1	25.5	27.5	29.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 48 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M ²					BAND CENTER FREQUENCY, M ²					BAND CENTER FREQUENCY, M ²							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.1	0.4	0.9	1.9	2.9	4.1	5.9	7.6	51	0.1	0.2	0.3	0.7	1.6	4.5	13.5	24.4	
2	0.1	0.3	0.9	1.9	3.1	4.3	6.3	8.0	52	0.1	0.2	0.3	0.7	1.6	4.4	13.1	23.8	
3	0.1	0.3	0.9	1.9	3.3	4.7	6.7	8.5	53	0.1	0.2	0.3	0.7	1.5	4.3	12.7	23.3	
4	0.1	0.3	0.9	2.0	3.5	5.0	7.1	9.0	54	0.1	0.2	0.3	0.7	1.5	4.2	12.4	22.7	
5	0.1	0.3	0.8	2.0	3.7	5.3	7.6	9.5	55	0.1	0.2	0.3	0.7	1.5	4.1	12.1	22.2	
6	0.1	0.3	0.8	2.0	3.8	5.7	8.0	10.1	56	0.1	0.2	0.3	0.7	1.5	4.0	11.8	21.7	
7	0.1	0.3	0.8	2.0	3.9	6.1	8.6	10.7	57	0.1	0.2	0.4	0.7	1.5	3.9	11.6	21.2	
8	0.1	0.3	0.8	2.0	4.0	6.5	9.1	11.4	58	0.1	0.2	0.4	0.7	1.5	3.8	11.3	20.6	
9	0.1	0.3	0.7	2.0	4.1	6.9	9.7	12.1	59	0.1	0.2	0.4	0.7	1.5	3.7	11.0	20.1	
T	0.1	0.2	0.7	1.9	4.2	7.3	10.4	12.8	E 60	0.1	0.2	0.4	0.7	1.5	3.7	10.7	19.6	
E 10	0.1	0.2	0.7	1.8	4.3	7.6	11.1	13.6	E 61	0.1	0.2	0.4	0.7	1.5	3.6	10.4	19.2	
E 11	0.1	0.2	0.7	1.8	4.3	7.9	11.9	14.5	E 62	0.1	0.2	0.4	0.7	1.5	3.6	10.1	18.8	
E 12	0.1	0.2	0.6	1.7	4.4	8.2	12.6	15.4	P 63	0.1	0.2	0.4	0.8	1.5	3.5	9.9	18.4	
E 13	0.1	0.2	0.6	1.7	4.4	8.5	13.3	16.3	E 64	0.1	0.2	0.4	0.8	1.5	3.5	9.6	17.9	
E 14	0.1	0.2	0.6	1.7	4.4	8.7	14.1	17.3	E 65	0.1	0.2	0.4	0.8	1.6	3.5	9.4	17.5	
A 15	0.1	0.2	0.6	1.6	4.3	8.9	14.9	18.4	A 66	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.0	
A 16	0.1	0.2	0.6	1.6	4.3	8.9	14.9	18.4	A 66	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.0	
U 17	0.1	0.2	0.5	1.6	4.2	9.1	15.7	19.6	T 67	0.1	0.2	0.4	0.8	1.6	3.5	9.1	16.6	
U 18	0.1	0.2	0.5	1.5	4.1	9.3	16.5	20.7	U 68	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.2	
R 19	0.1	0.2	0.5	1.5	4.0	9.4	17.2	21.9	P 69	0.1	0.2	0.4	0.8	1.6	3.4	8.8	15.9	
E 20	0.1	0.2	0.5	1.4	3.8	9.6	17.8	23.0	E 70	0.1	0.2	0.4	0.8	1.7	3.4	8.6	15.5	
E 21	0.1	0.2	0.5	1.4	3.8	9.7	18.4	24.3	I 71	0.1	0.2	0.4	0.8	1.7	3.4	8.5	15.2	
E 22	0.1	0.2	0.5	1.3	3.7	9.7	19.0	25.5	I 72	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9	
D 23	0.1	0.2	0.4	1.3	3.6	9.6	19.4	26.5	D 73	0.1	0.2	0.4	0.8	1.7	3.5	8.3	14.6	
E 24	0.1	0.1	0.4	1.2	3.5	9.4	19.8	27.5	E 74	0.1	0.2	0.4	0.9	1.7	3.5	8.2	14.4	
G 25	0.1	0.1	0.4	1.2	3.4	9.1	20.2	28.4	G 75	0.1	0.2	0.4	0.9	1.7	3.6	8.2	14.2	
E 26	0.1	0.1	0.4	1.1	3.3	8.9	20.6	29.3	R 76	0.1	0.2	0.4	0.9	1.8	3.6	8.2	14.0	
E 27	0.1	0.1	0.4	1.1	3.2	8.7	20.9	30.0	E 77	0.1	0.2	0.4	0.9	1.8	3.6	8.1	13.8	
E 28	0.1	0.1	0.4	1.1	3.1	8.5	21.1	30.7	E 78	0.1	0.2	0.4	0.9	1.8	3.7	8.1	13.6	
S 29	0.1	0.1	0.4	1.0	3.0	8.3	21.3	31.3	S 79	0.1	0.2	0.4	0.9	1.8	3.7	8.1	13.5	
S 30	0.1	0.1	0.3	1.0	2.9	8.1	21.4	31.9	F 80	0.1	0.2	0.5	0.9	1.8	3.8	8.1	13.4	
F 31	0.1	0.1	0.3	1.0	2.8	7.9	21.3	32.4	F 81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	13.3	
A 32	0.1	0.1	0.3	0.9	2.7	7.7	21.0	32.8	A 82	0.1	0.2	0.5	0.9	1.9	3.8	8.1	13.3	
H 33	0.1	0.1	0.3	0.9	2.6	7.5	20.5	33.2	H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.3	
E 34	0.1	0.1	0.3	0.9	2.6	7.3	20.0	33.5	E 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.2	
E 35	0.1	0.1	0.3	0.8	2.5	7.1	19.5	33.5	R 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	13.1	
E 36	0.1	0.1	0.3	0.8	2.4	6.9	19.1	33.3	N 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.1	
H 37	0.1	0.1	0.3	0.8	2.3	6.8	18.7	32.9	H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.1	
E 38	0.1	0.1	0.3	0.8	2.3	6.6	18.3	32.1	E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.1	
I 39	0.1	0.1	0.3	0.7	2.2	6.4	18.0	31.3	I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1	
T 40	0.1	0.1	0.3	0.7	2.1	6.2	17.6	30.6	T 90	0.1	0.3	0.5	1.0	2.1	4.2	8.7	13.2	
41	0.1	0.1	0.3	0.7	2.0	6.0	17.2	30.0	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4	
42	0.1	0.1	0.3	0.7	2.0	5.9	16.8	29.4	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5	
43	0.1	0.2	0.3	0.7	1.9	5.7	16.5	28.9	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7	
44	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.4	94	0.1	0.3	0.5	1.1	2.1	4.4	9.1	13.9	
45	0.1	0.2	0.3	0.7	1.8	5.4	15.7	27.9	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1	
46	0.1	0.2	0.3	0.7	1.8	5.2	15.3	27.3	96	0.1	0.3	0.5	1.1	2.2	4.4	9.3	14.2	
47	0.1	0.2	0.3	0.7	1.7	5.1	14.9	26.7	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4	
48	0.1	0.2	0.3	0.7	1.7	4.9	14.5	26.1	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4	
49	0.1	0.2	0.3	0.7	1.6	4.8	14.1	25.6	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5	
50	0.1	0.2	0.3	0.7	1.6	4.6	13.8	25.0	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 49 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, M7											
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.9	1.9	3.0	4.2	6.0	7.7	51	0.1	0.2	0.3	0.7	1.6	4.4	13.2	23.9
2	0.1	0.3	0.9	1.9	3.2	4.5	6.4	8.2	52	0.1	0.2	0.3	0.7	1.5	4.3	12.8	23.3
3	0.1	0.3	0.9	1.9	3.4	4.8	6.8	9.7	53	0.1	0.2	0.3	0.7	1.5	4.2	12.5	22.8
4	0.1	0.3	0.8	2.0	3.5	5.1	7.2	9.2	54	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.3
5	0.1	0.3	0.8	2.0	3.7	5.5	7.7	9.7	55	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.8
6	0.1	0.3	0.8	2.0	3.8	5.9	8.2	10.3	56	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.3
7	0.1	0.3	0.8	2.0	4.0	6.2	8.8	11.0	57	0.1	0.2	0.4	0.7	1.5	3.8	11.3	20.7
8	0.1	0.3	0.7	2.0	4.1	6.6	9.3	11.6	58	0.1	0.2	0.4	0.7	1.5	3.7	11.0	20.2
9	0.1	0.3	0.7	1.9	4.1	7.0	10.0	12.3	59	0.1	0.2	0.4	0.7	1.5	3.7	10.7	19.7
10	0.1	0.2	0.7	1.9	4.2	7.4	10.6	13.1	60	0.1	0.2	0.4	0.7	1.5	3.6	10.4	19.2
11	0.1	0.2	0.7	1.8	4.3	7.7	11.3	13.9	61	0.1	0.2	0.4	0.7	1.5	3.6	10.1	18.9
12	0.1	0.2	0.6	1.8	4.3	8.0	12.1	14.8	62	0.1	0.2	0.4	0.7	1.5	3.5	9.9	18.4
13	0.1	0.2	0.6	1.7	4.4	8.3	12.9	15.7	63	0.1	0.2	0.4	0.8	1.5	3.5	9.7	18.0
14	0.1	0.2	0.6	1.7	4.4	8.6	13.6	16.7	64	0.1	0.2	0.4	0.8	1.5	3.5	9.5	17.5
15	0.1	0.2	0.6	1.6	4.4	8.8	14.4	17.7	65	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.1
16	0.1	0.2	0.6	1.6	4.3	9.0	15.2	18.8	66	0.1	0.2	0.4	0.8	1.6	3.4	9.1	16.7
17	0.1	0.2	0.5	1.5	4.1	9.2	16.0	20.0	67	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.2
18	0.1	0.2	0.5	1.5	4.0	9.3	16.7	21.1	68	0.1	0.2	0.4	0.8	1.6	3.4	8.7	15.9
19	0.1	0.2	0.5	1.4	3.9	9.4	17.4	22.3	69	0.1	0.2	0.4	0.8	1.6	3.4	8.5	15.6
20	0.1	0.2	0.5	1.4	3.8	9.6	18.0	23.5	70	0.1	0.2	0.4	0.8	1.7	3.4	8.5	15.2
21	0.1	0.2	0.5	1.3	3.7	9.6	18.6	24.7	71	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9
22	0.1	0.2	0.4	1.3	3.6	9.6	19.1	25.8	72	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9
23	0.1	0.1	0.4	1.2	3.5	9.5	19.5	26.9	73	0.1	0.2	0.4	0.8	1.7	3.5	8.2	14.6
24	0.1	0.1	0.4	1.2	3.4	9.3	19.9	27.8	74	0.1	0.2	0.4	0.9	1.7	3.5	8.1	14.2
25	0.1	0.1	0.4	1.2	3.3	9.0	20.3	28.7	75	0.1	0.2	0.4	0.9	1.7	3.6	8.1	14.0
26	0.1	0.1	0.4	1.1	3.2	8.7	20.6	29.5	76	0.1	0.2	0.4	0.9	1.8	3.6	8.1	13.8
27	0.1	0.1	0.4	1.1	3.1	8.5	20.9	30.2	77	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.6
28	0.1	0.1	0.4	1.0	3.0	8.3	21.1	30.8	78	0.1	0.2	0.4	0.9	1.8	3.7	8.0	13.4
29	0.1	0.1	0.3	1.0	2.9	8.1	21.3	31.4	79	0.1	0.2	0.4	0.9	1.8	3.7	8.0	13.3
30	0.1	0.1	0.3	0.9	2.8	8.0	21.5	32.0	80	0.1	0.2	0.5	0.9	1.8	3.8	8.0	13.3
31	0.1	0.1	0.3	0.9	2.8	7.8	21.5	32.4	81	0.1	0.2	0.5	0.9	1.8	3.9	8.0	13.2
32	0.1	0.1	0.3	0.9	2.7	7.6	20.7	32.9	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	13.2
33	0.1	0.1	0.3	0.9	2.6	7.4	20.1	33.2	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.1
34	0.1	0.1	0.3	0.8	2.5	7.2	19.6	33.4	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.0
35	0.1	0.1	0.3	0.8	2.4	7.0	19.2	33.3	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.0
36	0.1	0.1	0.3	0.8	2.3	6.8	18.8	32.9	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
37	0.1	0.1	0.3	0.8	2.3	6.6	18.4	32.3	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
38	0.1	0.1	0.3	0.8	2.2	6.4	18.0	31.4	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.7	2.1	6.2	17.7	30.7	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.7	2.1	6.1	17.3	30.1	90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.2
41	0.1	0.1	0.3	0.7	2.0	5.9	16.9	29.5	91	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.7	1.9	5.7	16.5	29.0	92	0.1	0.2	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.7	1.9	5.6	16.1	28.5	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.8
44	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.0	94	0.1	0.2	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.7	1.8	5.3	15.3	27.4	95	0.1	0.2	0.5	1.1	2.1	4.3	9.0	13.8
46	0.1	0.2	0.3	0.7	1.7	5.1	15.0	26.8	96	0.1	0.2	0.5	1.1	2.2	4.4	9.1	13.9
47	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.2	97	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1
48	0.1	0.2	0.3	0.7	1.6	4.8	14.2	25.7	98	0.1	0.2	0.6	1.1	2.2	4.5	9.3	14.2
49	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.1	99	0.1	0.2	0.6	1.1	2.2	4.5	9.4	14.5
50	0.1	0.2	0.3	0.7	1.6	4.5	13.6	24.5	100	0.1	0.2	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE RANGES OF NOISE AS A FUNCTION OF TEMPERATURE FOR 50 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ											
	63	125	250	500	1000	2000	4000	8000									
1	0.1	0.3	0.9	1.9	3.1	4.2	6.1	7.9	51	0.1	0.2	0.3	0.7	1.5	4.3	12.9	23.4
2	0.1	0.3	0.9	1.9	3.3	4.6	6.5	8.3	52	0.1	0.2	0.3	0.7	1.5	4.2	12.5	22.9
3	0.1	0.3	0.9	2.0	3.4	4.9	6.9	8.8	53	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.4
4	0.1	0.3	0.8	2.0	3.6	5.2	7.4	9.4	54	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.9
5	0.1	0.3	0.8	2.0	3.7	5.6	7.9	9.9	55	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.4
6	0.1	0.3	0.8	2.0	3.9	6.0	8.4	10.5	56	0.1	0.2	0.3	0.7	1.5	3.8	11.4	20.8
7	0.1	0.3	0.8	2.0	4.0	6.3	9.0	11.2	57	0.1	0.2	0.4	0.7	1.5	3.7	11.1	20.3
8	0.1	0.3	0.7	2.0	4.1	6.7	9.5	11.9	58	0.1	0.2	0.4	0.7	1.5	3.7	10.8	19.8
9	0.1	0.2	0.7	1.9	4.2	7.1	10.2	12.6	59	0.1	0.2	0.4	0.7	1.5	3.6	10.5	19.3
T 10	0.1	0.2	0.7	1.8	4.2	7.5	10.9	13.4	T 60	0.1	0.2	0.4	0.7	1.5	3.6	10.2	18.9
E 11	0.1	0.2	0.7	1.8	4.3	7.8	11.6	14.2	E 61	0.1	0.2	0.4	0.7	1.5	3.5	9.9	18.5
H 12	0.1	0.2	0.6	1.7	4.4	8.1	12.3	15.1	H 62	0.1	0.2	0.4	0.7	1.5	3.5	9.7	18.1
P 13	0.1	0.2	0.6	1.7	4.4	8.4	13.1	16.0	P 63	0.1	0.2	0.4	0.8	1.5	3.5	9.5	17.6
E 14	0.1	0.2	0.6	1.6	4.3	8.6	13.9	17.0	E 64	0.1	0.2	0.4	0.8	1.5	3.5	9.3	17.2
R 15	0.1	0.2	0.6	1.6	4.3	8.8	14.7	18.1	R 65	0.1	0.2	0.4	0.8	1.6	3.4	9.1	16.7
A 16	0.1	0.2	0.5	1.5	4.2	9.0	15.5	19.3	A 66	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.3
T 17	0.1	0.2	0.5	1.5	4.0	9.2	16.2	20.4	T 67	0.1	0.2	0.4	0.8	1.6	3.4	8.7	15.9
U 18	0.1	0.2	0.5	1.4	3.9	9.3	16.9	21.6	U 68	0.1	0.2	0.4	0.8	1.6	3.4	8.6	15.6
R 19	0.1	0.2	0.5	1.4	3.8	9.5	17.6	22.7	R 69	0.1	0.2	0.4	0.8	1.6	3.4	8.5	15.3
E 20	0.1	0.2	0.5	1.3	3.7	9.6	18.2	23.9	E 70	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9
, 21	0.1	0.2	0.4	1.3	3.6	9.6	18.7	25.1	, 71	0.1	0.2	0.4	0.8	1.7	3.4	8.2	14.7
D 22	0.1	0.1	0.4	1.3	3.6	9.5	19.2	26.2	D 72	0.1	0.2	0.4	0.8	1.7	3.4	8.2	14.4
D 23	0.1	0.1	0.4	1.2	3.5	9.3	19.6	27.2	D 73	0.1	0.2	0.4	0.8	1.7	3.5	8.1	14.2
E 24	0.1	0.1	0.4	1.2	3.4	9.1	20.0	28.3	E 74	0.1	0.2	0.4	0.9	1.7	3.5	8.1	13.9
G 25	0.1	0.1	0.4	1.1	3.3	8.8	20.3	29.0	G 75	0.1	0.2	0.4	0.9	1.7	3.6	8.1	13.8
R 26	0.1	0.1	0.4	1.1	3.2	8.6	20.6	29.7	R 76	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.6
E 27	0.1	0.1	0.4	1.1	3.1	8.4	20.9	30.4	E 77	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.4
E 28	0.1	0.1	0.3	1.0	3.0	8.2	21.1	31.0	E 78	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.3
S 29	0.1	0.1	0.3	1.0	2.9	8.0	21.2	31.5	S 79	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.2
F 30	0.1	0.1	0.3	1.0	2.8	7.9	21.1	32.0	F 80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.2
F 31	0.1	0.1	0.3	0.9	2.7	7.7	20.8	32.5	F 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	13.1
A 32	0.1	0.1	0.3	0.9	2.6	7.5	20.3	32.9	A 82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.0
H 33	0.1	0.1	0.3	0.9	2.5	7.3	19.7	33.1	H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.0
E 34	0.1	0.1	0.3	0.8	2.4	7.1	19.3	33.2	E 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
E 35	0.1	0.1	0.3	0.8	2.4	6.9	18.9	33.0	E 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.9
N 36	0.1	0.1	0.3	0.8	2.3	6.7	18.5	32.5	N 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.9
H 37	0.1	0.1	0.3	0.8	2.2	6.5	18.1	31.7	H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
E 38	0.1	0.1	0.3	0.7	2.2	6.3	17.8	30.9	E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
I 39	0.1	0.1	0.3	0.7	2.1	6.1	17.4	30.2	I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
T 40	0.1	0.1	0.3	0.7	2.0	6.0	17.0	29.6	T 90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.7	1.9	5.8	16.6	29.0	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.5	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.3	0.7	1.8	5.4	15.8	28.1	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.7	1.8	5.3	15.4	27.5	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.7	1.7	5.1	15.0	26.9	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.4	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.7	1.7	4.9	14.3	25.8	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.2	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.6	4.6	13.6	24.6	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.6	4.4	13.3	24.0	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 51 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
		63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	T 9	0.1	0.3	0.9	1.9	3.1	4.3	6.2	8.0	51	0.1	0.2	0.3	0.7	1.5	4.2	12.6	23.0
2	E 11	0.1	0.3	0.9	1.9	3.3	4.7	6.7	8.5	52	0.1	0.2	0.3	0.7	1.5	4.1	12.3	22.5
3	M 12	0.1	0.3	0.8	2.0	3.5	5.0	7.1	9.0	53	0.1	0.2	0.3	0.7	1.5	4.0	12.0	21.9
4	P 13	0.1	0.3	0.8	2.0	3.6	5.4	7.6	9.6	54	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.5
5	E 14	0.1	0.3	0.8	2.0	3.8	5.7	8.1	10.1	55	0.1	0.2	0.3	0.7	1.5	3.8	11.4	21.0
6	T 10	0.1	0.3	0.8	2.0	3.9	6.1	8.6	10.7	56	0.1	0.2	0.3	0.7	1.5	3.7	11.1	20.4
7	E 11	0.1	0.3	0.7	2.0	4.0	6.5	9.2	11.4	57	0.1	0.2	0.4	0.7	1.5	3.7	10.8	19.9
8	M 12	0.1	0.3	0.7	1.9	4.1	6.9	9.8	12.1	58	0.1	0.2	0.4	0.7	1.5	3.6	10.5	19.4
9	P 13	0.1	0.2	0.7	1.8	4.2	7.2	10.4	12.9	59	0.1	0.2	0.4	0.7	1.5	3.6	10.2	18.9
10	E 14	0.1	0.2	0.7	1.8	4.2	7.6	11.1	13.7	60	0.1	0.2	0.4	0.7	1.5	3.5	10.0	18.6
11	T 9	0.1	0.2	0.6	1.6	4.3	7.9	11.8	14.5	61	0.1	0.2	0.4	0.7	1.5	3.5	9.7	18.1
12	E 11	0.1	0.2	0.6	1.7	4.3	8.2	12.6	15.4	62	0.1	0.2	0.4	0.7	1.5	3.4	9.5	17.7
13	M 12	0.1	0.2	0.6	1.7	4.4	8.5	13.4	16.4	63	0.1	0.2	0.4	0.8	1.5	3.4	9.3	17.2
14	P 13	0.1	0.2	0.6	1.6	4.3	8.7	14.1	17.4	64	0.1	0.2	0.4	0.8	1.5	3.4	9.1	16.8
15	E 14	0.1	0.2	0.6	1.6	4.2	8.9	14.9	18.5	65	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.4
16	T 10	0.1	0.2	0.5	1.5	4.1	9.0	15.8	19.7	66	0.1	0.2	0.4	0.8	1.6	3.4	8.7	16.0
17	E 11	0.1	0.2	0.5	1.5	4.0	9.2	16.5	20.8	67	0.1	0.2	0.4	0.8	1.6	3.4	8.6	15.6
18	M 12	0.1	0.2	0.5	1.4	3.9	9.3	17.2	22.0	68	0.1	0.2	0.4	0.8	1.6	3.4	8.5	15.3
19	P 13	0.1	0.2	0.5	1.4	3.8	9.5	17.8	23.1	69	0.1	0.2	0.4	0.8	1.7	3.4	8.4	15.0
20	E 14	0.1	0.2	0.5	1.3	3.7	9.5	18.4	24.4	70	0.1	0.2	0.4	0.8	1.7	3.5	8.4	14.7
21	T 9	0.1	0.1	0.4	1.3	3.6	9.5	18.9	25.5	71	0.1	0.2	0.4	0.8	1.7	3.4	8.1	14.4
22	E 11	0.1	0.1	0.4	1.2	3.5	9.4	19.3	26.5	72	0.1	0.2	0.4	0.8	1.7	3.5	8.1	14.2
23	M 12	0.1	0.1	0.4	1.2	3.4	9.2	19.7	27.5	73	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.9
24	P 13	0.1	0.1	0.4	1.2	3.3	8.9	20.1	28.4	74	0.1	0.2	0.4	0.9	1.7	3.5	8.0	13.7
25	E 14	0.1	0.1	0.4	1.1	3.2	8.7	20.4	29.2	75	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.6
26	T 10	0.1	0.1	0.4	1.1	3.1	8.4	20.7	29.9	76	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.4
27	E 11	0.1	0.1	0.4	1.0	3.0	8.2	20.9	30.5	77	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.1
28	M 12	0.1	0.1	0.3	1.0	2.9	8.1	21.1	31.1	78	0.1	0.2	0.4	0.9	1.8	3.8	7.9	13.0
29	P 13	0.1	0.1	0.3	1.0	2.8	7.9	21.0	31.6	79	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.9
30	E 14	0.1	0.1	0.3	0.9	2.7	7.7	20.9	32.1	80	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.9
31	T 9	0.1	0.1	0.3	0.9	2.6	7.5	20.5	32.5	81	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
32	E 11	0.1	0.1	0.3	0.9	2.6	7.3	19.9	32.9	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.9
33	M 12	0.1	0.1	0.3	0.8	2.5	7.1	19.4	33.0	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
34	P 13	0.1	0.1	0.3	0.8	2.4	6.9	19.0	32.9	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
35	E 14	0.1	0.1	0.3	0.8	2.3	6.7	18.6	32.6	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.9
36	T 10	0.1	0.1	0.3	0.8	2.3	6.5	18.2	32.0	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
37	E 11	0.1	0.1	0.3	0.7	2.2	6.4	17.8	31.1	87	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
38	M 12	0.1	0.1	0.3	0.7	2.1	6.2	17.5	30.4	88	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
39	P 13	0.1	0.1	0.3	0.7	2.0	6.0	17.1	29.8	89	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3
40	E 14	0.1	0.1	0.3	0.7	2.0	5.8	16.7	29.2	90	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
41	T 9	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.6	91	0.1	0.2	0.5	1.0	2.1	4.3	8.9	13.5
42	E 11	0.1	0.1	0.3	0.7	1.8	5.5	15.9	28.1	92	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
43	M 12	0.1	0.1	0.3	0.7	1.8	5.3	15.5	27.6	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.8
44	P 13	0.1	0.1	0.3	0.7	1.7	5.2	15.1	27.1	94	0.1	0.2	0.5	1.1	2.1	4.4	9.1	13.9
45	E 14	0.1	0.1	0.3	0.7	1.7	5.1	14.8	26.5	95	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1
46	T 10	0.1	0.1	0.3	0.7	1.7	4.9	14.4	25.9	96	0.1	0.2	0.5	1.1	2.2	4.4	9.3	14.2
47	E 11	0.1	0.1	0.3	0.7	1.6	4.8	14.0	25.3	97	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.4
48	M 12	0.1	0.1	0.3	0.7	1.6	4.6	13.7	24.7	98	0.1	0.2	0.5	1.1	2.2	4.5	9.5	14.5
49	P 13	0.1	0.1	0.3	0.7	1.6	4.5	13.4	24.1	99	0.1	0.2	0.5	1.1	2.2	4.6	9.5	14.5
50	E 14	0.1	0.1	0.3	0.7	1.5	4.3	13.0	23.6	100	0.1	0.2	0.5	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 52 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7					BAND CENTER FREQUENCY, MZ											
	63	125	250	500	1000	2000	4000	8000									
1	0.1	0.3	0.9	1.9	3.2	4.4	6.4	8.2	51	0.1	0.2	0.3	0.7	1.5	4.1	12.4	22.6
2	0.1	0.3	0.9	1.9	3.4	4.8	6.8	8.7	52	0.1	0.2	0.3	0.7	1.5	4.0	12.0	22.0
3	0.1	0.3	0.8	2.0	3.5	5.1	7.2	9.2	53	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.6
4	0.1	0.3	0.8	2.0	3.7	5.5	7.7	9.7	54	0.1	0.2	0.3	0.7	1.5	3.8	11.5	21.1
5	0.1	0.3	0.8	2.0	3.8	5.9	8.2	10.3	55	0.1	0.2	0.3	0.7	1.5	3.8	11.2	20.5
6	0.1	0.3	0.8	2.0	3.9	6.2	8.8	11.0	56	0.1	0.2	0.3	0.7	1.5	3.7	10.9	20.0
7	0.1	0.3	0.7	2.0	4.0	6.6	9.3	11.6	57	0.1	0.2	0.4	0.7	1.5	3.6	10.6	19.5
8	0.1	0.2	0.7	1.9	4.1	7.0	10.0	12.3	58	0.1	0.2	0.4	0.7	1.5	3.6	10.3	19.0
9	0.1	0.2	0.7	1.8	4.2	7.4	10.6	13.1	59	0.1	0.2	0.4	0.7	1.5	3.5	10.0	18.6
10	0.1	0.2	0.7	1.8	4.2	7.7	11.3	13.9	T 60	0.1	0.2	0.4	0.7	1.5	3.5	9.8	18.2
11	0.1	0.2	0.6	1.7	4.3	8.0	12.1	14.8	E 61	0.1	0.2	0.4	0.7	1.5	3.4	9.5	17.8
12	0.1	0.2	0.6	1.7	4.3	8.3	12.9	15.7	P 62	0.1	0.2	0.4	0.7	1.5	3.4	9.3	17.3
13	0.1	0.2	0.6	1.6	4.3	8.5	13.6	16.7	P 63	0.1	0.2	0.4	0.8	1.5	3.4	9.1	16.9
14	0.1	0.2	0.6	1.6	4.3	8.7	14.4	17.8	E 64	0.1	0.2	0.4	0.8	1.5	3.4	8.9	16.4
15	0.1	0.2	0.5	1.5	4.2	8.9	15.2	18.9	P 65	0.1	0.2	0.4	0.8	1.6	3.4	8.8	16.0
16	0.1	0.2	0.5	1.5	4.0	9.1	16.0	20.1	A 66	0.1	0.2	0.4	0.8	1.6	3.3	8.6	15.6
17	0.1	0.2	0.5	1.4	3.9	9.2	16.7	21.2	T 67	0.1	0.2	0.4	0.8	1.6	3.3	8.5	15.3
18	0.1	0.2	0.5	1.4	3.8	9.4	17.4	22.4	U 68	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.0
19	0.1	0.2	0.5	1.3	3.7	9.5	17.9	23.6	R 69	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.7
20	0.1	0.2	0.4	1.3	3.6	9.5	18.5	24.8	E 70	0.1	0.2	0.4	0.8	1.7	3.4	8.1	14.4
21	0.1	0.1	0.4	1.3	3.5	9.4	19.0	25.8	S 71	0.1	0.2	0.4	0.8	1.7	3.4	8.0	14.2
22	0.1	0.1	0.4	1.2	3.4	9.3	19.4	26.8	G 72	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.9
23	0.1	0.1	0.4	1.2	3.3	9.0	19.8	27.8	D 73	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.7
24	0.1	0.1	0.4	1.1	3.2	8.7	20.1	28.8	E 74	0.1	0.2	0.4	0.9	1.7	3.5	8.0	13.6
25	0.1	0.1	0.4	1.1	3.1	8.5	20.4	29.4	G 75	0.1	0.2	0.4	0.9	1.7	3.6	7.9	13.4
26	0.1	0.1	0.4	1.0	3.0	8.3	20.7	30.0	R 76	0.1	0.2	0.4	0.9	1.8	3.6	7.9	13.2
27	0.1	0.1	0.3	1.0	2.9	8.1	20.9	30.6	E 77	0.1	0.2	0.4	0.9	1.8	3.6	7.8	13.1
28	0.1	0.1	0.3	1.0	2.8	8.0	21.0	31.2	E 78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	13.0
29	0.1	0.1	0.3	0.9	2.8	7.8	20.9	31.7	S 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	13.0
30	0.1	0.1	0.3	0.9	2.7	7.6	20.6	32.1	G 80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.0
31	0.1	0.1	0.3	0.9	2.6	7.4	20.1	32.5	F 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.9
32	0.1	0.1	0.3	0.8	2.5	7.2	19.5	32.8	A 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.8
33	0.1	0.1	0.3	0.8	2.4	7.0	19.1	32.8	H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.8
34	0.1	0.1	0.3	0.8	2.3	6.8	18.7	32.6	R 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.8
35	0.1	0.1	0.3	0.8	2.3	6.6	18.3	32.2	E 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.8
36	0.1	0.1	0.3	0.7	2.2	6.4	17.9	31.4	M 86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
37	0.1	0.1	0.3	0.7	2.1	6.2	17.6	30.6	H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.7	2.1	6.1	17.2	29.9	E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.7	2.0	5.9	16.8	29.3	I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.7	1.9	5.7	16.4	28.7	T 90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.7	1.9	5.5	16.0	28.2	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.7	1.9	5.4	15.6	27.8	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.7	1.8	5.2	15.2	27.2	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
44	0.1	0.2	0.3	0.7	1.7	5.1	14.9	26.6	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.7	1.7	4.9	14.5	26.0	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.7	1.6	4.8	14.1	25.5	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.6	4.7	13.8	24.9	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.6	4.5	13.4	24.3	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.5	4.2	12.7	23.1	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 53 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
		63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	T	0.1	0.3	0.9	1.9	3.2	4.5	6.5	8.3	51	0.1	0.2	0.3	0.7	1.5	4.1	12.1	22.2
2	F	0.1	0.3	0.8	1.9	3.4	4.9	6.9	8.8	52	0.1	0.2	0.3	0.7	1.5	4.0	11.8	21.7
3	M	0.1	0.3	0.8	2.0	3.6	5.2	7.4	9.3	53	0.1	0.2	0.3	0.7	1.5	3.9	11.5	21.2
4	M	0.1	0.3	0.8	2.0	3.7	5.6	7.9	9.9	54	0.1	0.2	0.3	0.7	1.5	3.8	11.3	20.7
5	P	0.1	0.3	0.8	2.0	3.8	6.0	8.4	10.5	55	0.1	0.2	0.3	0.7	1.5	3.7	11.0	20.1
6	E	0.1	0.3	0.7	2.0	3.9	6.3	8.9	11.2	56	0.1	0.2	0.3	0.7	1.5	3.6	10.7	19.6
7	T	0.1	0.3	0.7	1.9	4.0	6.7	9.5	11.9	57	0.1	0.2	0.4	0.7	1.5	3.6	10.4	19.1
8	F	0.1	0.2	0.7	1.9	4.1	7.1	10.2	12.6	58	0.1	0.2	0.4	0.7	1.5	3.5	10.1	18.7
9	M	0.1	0.2	0.7	1.8	4.2	7.5	10.9	13.4	59	0.1	0.2	0.4	0.7	1.5	3.5	9.8	18.3
10	P	0.1	0.2	0.6	1.7	4.3	7.8	11.6	14.2	60	0.1	0.2	0.4	0.7	1.5	3.4	9.6	17.9
11	E	0.1	0.2	0.6	1.7	4.3	8.1	12.4	15.1	61	0.1	0.2	0.4	0.7	1.5	3.4	9.4	17.4
12	M	0.1	0.2	0.6	1.7	4.3	8.3	13.1	16.1	62	0.1	0.2	0.4	0.7	1.5	3.4	9.2	17.0
13	P	0.1	0.2	0.6	1.6	4.3	8.6	13.9	17.1	63	0.1	0.2	0.4	0.8	1.5	3.4	9.0	16.5
14	E	0.1	0.2	0.6	1.6	4.2	8.8	14.7	18.2	64	0.1	0.2	0.4	0.8	1.5	3.3	8.8	16.1
15	M	0.1	0.2	0.5	1.5	4.1	8.9	15.5	19.3	65	0.1	0.2	0.4	0.8	1.6	3.3	8.6	15.7
16	P	0.1	0.2	0.5	1.5	4.0	9.1	16.2	20.5	66	0.1	0.2	0.4	0.8	1.6	3.3	8.5	15.4
17	E	0.1	0.2	0.5	1.4	3.8	9.2	16.9	21.6	67	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.0
18	M	0.1	0.2	0.5	1.4	3.7	9.4	17.5	22.8	68	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.7
19	P	0.1	0.2	0.5	1.3	3.6	9.4	18.1	24.0	69	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.4
20	E	0.1	0.2	0.4	1.3	3.6	9.4	18.6	25.1	70	0.1	0.2	0.4	0.8	1.7	3.4	8.0	14.2
21	M	0.1	0.1	0.4	1.2	3.5	9.3	19.2	26.2	71	0.1	0.2	0.4	0.8	1.7	3.4	8.0	13.9
22	P	0.1	0.1	0.4	1.2	3.4	9.1	19.5	27.1	72	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.7
23	E	0.1	0.1	0.4	1.1	3.3	8.8	19.8	28.0	73	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.5
24	M	0.1	0.1	0.4	1.1	3.2	8.6	20.2	28.9	74	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.4
25	P	0.1	0.1	0.4	1.1	3.1	8.4	20.5	29.8	75	0.1	0.2	0.4	0.9	1.7	3.6	7.9	13.2
26	E	0.1	0.1	0.3	1.0	3.0	8.2	20.7	30.2	76	0.1	0.2	0.4	0.9	1.8	3.6	7.8	13.0
27	M	0.1	0.1	0.3	1.0	2.9	8.0	20.9	30.9	77	0.1	0.2	0.4	0.9	1.8	3.6	7.8	12.9
28	P	0.1	0.1	0.3	0.9	2.7	7.7	20.7	31.3	78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.9
29	E	0.1	0.1	0.3	0.9	2.6	7.5	20.3	31.6	79	0.1	0.2	0.4	0.9	1.8	3.8	7.9	12.8
30	M	0.1	0.1	0.3	0.9	2.5	7.3	19.7	32.5	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.8
31	P	0.1	0.1	0.3	0.9	2.5	7.3	19.7	32.5	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.8
32	E	0.1	0.1	0.3	0.8	2.4	7.1	19.2	32.7	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.7
33	M	0.1	0.1	0.3	0.8	2.4	6.9	18.9	32.6	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.7
34	P	0.1	0.1	0.3	0.8	2.3	6.7	18.4	32.3	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.7
35	E	0.1	0.1	0.3	0.8	2.2	6.5	18.0	31.7	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.7
36	M	0.1	0.1	0.3	0.7	2.2	6.3	17.7	30.4	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
37	P	0.1	0.1	0.3	0.7	2.1	6.1	17.3	30.1	87	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
38	E	0.1	0.1	0.3	0.7	2.0	5.9	17.0	29.5	88	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
39	M	0.1	0.1	0.3	0.7	1.9	5.8	16.6	28.9	89	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
40	P	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.3	90	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
41	E	0.1	0.1	0.3	0.7	1.8	5.4	15.8	27.9	91	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
42	M	0.1	0.1	0.3	0.7	1.7	5.3	15.4	27.3	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
43	P	0.1	0.1	0.3	0.7	1.7	5.1	15.0	26.8	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
44	E	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.2	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.9
45	M	0.1	0.2	0.3	0.6	1.6	4.8	14.2	25.6	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
46	P	0.1	0.2	0.3	0.6	1.6	4.7	13.9	25.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	E	0.1	0.2	0.3	0.6	1.6	4.6	13.5	24.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	M	0.1	0.2	0.3	0.6	1.6	4.5	13.2	23.8	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	P	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.3	99	0.1	0.3	0.6	1.1	2.2	4.5	9.5	14.5
50	E	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.7	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 5% PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ										BAND CENTER FREQUENCY, HZ									
		63	125	250	500	1010	2000	4000	8000			63	125	250	500	1010	2000	4000	8000		
1	T 10	0.1	0.3	0.9	1.9	3.3	4.6	6.6	8.5	51	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.6			
2	E 11	0.1	0.3	0.9	1.9	3.5	5.0	7.1	9.0	52	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.3			
3	A 12	0.1	0.3	0.8	2.0	3.6	5.3	7.5	9.5	53	0.1	0.2	0.3	0.7	1.5	3.8	11.3	20.8			
4	P 13	0.1	0.3	0.8	2.0	3.7	5.7	8.0	10.1	54	0.1	0.2	0.3	0.7	1.4	3.7	11.0	20.3			
5	E 14	0.1	0.3	0.8	2.0	3.5	6.1	8.6	10.7	55	0.1	0.2	0.3	0.7	1.4	3.6	10.7	19.7			
6	R 15	0.1	0.3	0.7	2.0	4.0	6.4	9.1	11.4	56	0.1	0.2	0.3	0.7	1.4	3.6	10.5	19.2			
7	T 16	0.1	0.2	0.7	1.9	4.1	6.8	9.7	12.1	57	0.1	0.2	0.4	0.7	1.4	3.5	10.2	18.8			
8	E 17	0.1	0.2	0.7	1.8	4.1	7.2	10.4	12.8	58	0.1	0.2	0.4	0.7	1.4	3.5	9.9	18.4			
9	A 18	0.1	0.2	0.7	1.9	4.2	7.6	11.1	13.6	59	0.1	0.2	0.4	0.7	1.5	3.4	9.6	18.0			
10	P 19	0.1	0.2	0.6	1.7	4.3	7.9	11.8	14.5	T 60	0.1	0.2	0.4	0.7	1.5	3.4	9.4	17.5			
11	E 20	0.1	0.2	0.6	1.7	4.3	8.1	12.6	15.4	E 61	0.1	0.2	0.4	0.7	1.5	3.4	9.2	17.1			
12	A 21	0.1	0.2	0.6	1.6	4.3	8.6	13.4	16.4	M 62	0.1	0.2	0.4	0.7	1.5	3.4	9.0	16.6			
13	P 22	0.1	0.2	0.6	1.6	4.3	8.6	14.1	17.4	P 63	0.1	0.2	0.4	0.8	1.5	3.3	8.8	16.2			
14	E 23	0.1	0.2	0.5	1.5	4.1	8.8	14.9	18.5	E 64	0.1	0.2	0.4	0.8	1.6	3.3	8.6	15.8			
15	R 24	0.1	0.2	0.5	1.5	4.0	9.0	15.7	19.7	R 65	0.1	0.2	0.4	0.8	1.6	3.3	8.5	15.4			
16	T 25	0.1	0.2	0.5	1.4	3.9	9.1	16.4	20.8	A 66	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.1			
17	P 26	0.1	0.2	0.5	1.4	3.8	9.2	17.1	22.0	T 67	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.8			
18	E 27	0.1	0.2	0.5	1.3	3.7	9.4	17.7	23.2	U 68	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.5			
19	A 28	0.1	0.2	0.4	1.3	3.6	9.4	18.3	24.4	R 69	0.1	0.2	0.4	0.8	1.6	3.3	8.0	14.2			
20	P 29	0.1	0.1	0.4	1.2	3.5	9.4	18.7	25.5	E 70	0.1	0.2	0.4	0.8	1.7	3.4	7.9	14.0			
21	E 30	0.1	0.1	0.4	1.2	3.4	9.2	19.1	26.5	P 71	0.1	0.2	0.4	0.8	1.7	3.4	7.9	13.7			
22	A 31	0.1	0.1	0.4	1.2	3.3	9.0	19.5	27.4	P 72	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.5			
23	P 32	0.1	0.1	0.4	1.1	3.2	8.7	19.9	28.3	O 73	0.1	0.2	0.4	0.9	1.7	3.5	7.8	13.4			
24	E 33	0.1	0.1	0.4	1.1	3.1	8.5	20.2	29.0	E 74	0.1	0.2	0.4	0.9	1.7	3.5	7.8	13.2			
25	A 34	0.1	0.1	0.4	1.0	3.0	8.3	20.5	29.7	G 75	0.1	0.2	0.4	0.9	1.7	3.6	7.8	13.0			
26	P 35	0.1	0.1	0.3	1.0	2.9	8.1	20.7	30.3	R 76	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.9			
27	E 36	0.1	0.1	0.3	1.0	2.8	7.9	20.8	30.9	E 77	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.8			
28	A 37	0.1	0.1	0.3	0.9	2.7	7.7	20.7	31.4	E 78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.8			
29	P 38	0.1	0.1	0.3	0.9	2.7	7.5	20.4	31.8	S 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.8			
30	E 39	0.1	0.1	0.3	0.8	2.5	7.1	19.4	32.5	F 80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.6			
31	A 40	0.1	0.1	0.3	0.8	2.4	6.9	18.9	32.5	A 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.6			
32	P 41	0.1	0.1	0.3	0.8	2.3	6.7	18.5	32.3	H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.6			
33	E 42	0.1	0.1	0.3	0.8	2.3	6.5	18.1	31.9	R 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.6			
34	A 43	0.1	0.1	0.3	0.7	2.2	6.4	17.8	31.1	E 85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6			
35	P 44	0.1	0.1	0.3	0.7	2.1	6.2	17.4	30.3	N 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.7			
36	E 45	0.1	0.1	0.3	0.7	2.0	6.0	17.1	29.6	H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9			
37	A 46	0.1	0.1	0.3	0.7	2.0	5.8	16.7	29.0	E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0			
38	P 47	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.4	I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1			
39	E 48	0.1	0.1	0.3	0.7	1.8	5.5	15.9	27.9	T 90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3			
40	A 49	0.1	0.1	0.3	0.7	1.8	5.3	15.5	27.5	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4			
41	P 50	0.1	0.1	0.3	0.7	1.7	5.2	15.1	26.9	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5			
42	E 51	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.3	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7			
43	A 52	0.1	0.2	0.3	0.6	1.7	4.9	14.3	25.8	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8			
44	P 53	0.1	0.2	0.3	0.6	1.6	4.7	14.0	25.2	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9			
45	E 54	0.1	0.2	0.3	0.6	1.6	4.6	13.6	24.6	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1			
46	A 55	0.1	0.2	0.3	0.6	1.6	4.5	13.3	24.0	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2			
47	P 56	0.1	0.2	0.3	0.6	1.5	4.3	12.9	23.4	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4			
48	E 57	0.1	0.2	0.3	0.6	1.5	4.2	12.6	22.9	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5			
49	A 58	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6			
50	P 59	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.3												

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 55 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, Hz							BAND CENTER FREQUENCY, Hz					
	63	125	250	500	1000	2000		63	125	250	500	1000	2000
1	0.1	0.3	0.8	1.9	3.3	5.7	51	0.1	0.2	0.3	0.7	1.5	3.9
2	0.1	0.3	0.8	1.9	3.5	5.1	52	0.1	0.2	0.3	0.7	1.5	3.8
3	0.1	0.3	0.8	2.0	3.6	5.4	53	0.1	0.2	0.3	0.7	1.4	3.7
4	0.1	0.3	0.8	2.0	3.8	5.8	54	0.1	0.2	0.3	0.7	1.4	3.7
5	0.1	0.3	0.7	2.0	3.9	6.2	55	0.1	0.2	0.3	0.7	1.4	3.6
6	0.1	0.3	0.7	1.9	4.0	6.6	56	0.1	0.2	0.3	0.7	1.4	3.5
7	0.1	0.2	0.7	1.9	4.1	7.0	57	0.1	0.2	0.4	0.7	1.4	3.5
8	0.1	0.2	0.7	1.9	4.1	7.3	58	0.1	0.2	0.4	0.7	1.4	3.4
9	0.1	0.2	0.6	1.7	4.2	7.6	59	0.1	0.2	0.4	0.7	1.5	3.4
10	0.1	0.2	0.6	1.7	4.3	7.9	60	0.1	0.2	0.4	0.7	1.5	3.4
11	0.1	0.2	0.6	1.7	4.3	8.2	61	0.1	0.2	0.4	0.7	1.5	3.4
12	0.1	0.2	0.6	1.6	4.3	8.4	62	0.1	0.2	0.4	0.7	1.5	3.3
13	0.1	0.2	0.6	1.6	4.3	8.6	63	0.1	0.2	0.4	0.8	1.5	3.3
14	0.1	0.2	0.6	1.5	4.2	8.8	64	0.1	0.2	0.4	0.8	1.5	3.3
15	0.1	0.2	0.5	1.5	3.9	9.0	65	0.1	0.2	0.4	0.8	1.6	3.3
16	0.1	0.2	0.5	1.4	3.8	9.1	66	0.1	0.2	0.4	0.8	1.6	3.3
17	0.1	0.2	0.5	1.4	3.7	9.3	67	0.1	0.2	0.4	0.8	1.6	3.3
18	0.1	0.2	0.5	1.3	3.6	9.3	68	0.1	0.2	0.4	0.8	1.6	3.3
19	0.1	0.1	0.4	1.3	3.5	9.3	69	0.1	0.2	0.4	0.8	1.7	3.3
20	0.1	0.1	0.4	1.2	3.5	9.3	70	0.1	0.2	0.4	0.8	1.7	3.3
21	0.1	0.1	0.4	1.2	3.4	9.1	71	0.1	0.2	0.4	0.8	1.7	3.4
22	0.1	0.1	0.4	1.1	3.3	8.8	72	0.1	0.2	0.4	0.8	1.7	3.5
23	0.1	0.1	0.4	1.1	3.2	8.6	73	0.1	0.2	0.4	0.9	1.7	3.5
24	0.1	0.1	0.4	1.1	3.1	8.3	74	0.1	0.2	0.4	0.9	1.7	3.5
25	0.1	0.1	0.3	1.0	3.0	8.1	75	0.1	0.2	0.4	0.9	1.7	3.6
26	0.1	0.1	0.3	1.0	2.9	7.8	76	0.1	0.2	0.4	0.9	1.8	3.6
27	0.1	0.1	0.3	1.0	2.8	7.6	77	0.1	0.2	0.4	0.9	1.8	3.6
28	0.1	0.1	0.3	0.9	2.7	7.4	78	0.1	0.2	0.4	0.9	1.8	3.7
29	0.1	0.1	0.3	0.9	2.6	7.2	79	0.1	0.2	0.4	0.9	1.9	3.7
30	0.1	0.1	0.3	0.8	2.5	7.0	80	0.1	0.2	0.5	0.9	1.9	3.8
31	0.1	0.1	0.3	0.8	2.4	6.8	81	0.1	0.2	0.5	0.9	1.9	3.8
32	0.1	0.1	0.3	0.8	2.3	6.6	82	0.1	0.2	0.5	0.9	1.9	3.9
33	0.1	0.1	0.3	0.7	2.2	6.4	83	0.1	0.2	0.5	0.9	1.9	3.9
34	0.1	0.1	0.3	0.7	2.1	6.2	84	0.1	0.2	0.5	0.9	1.9	4.0
35	0.1	0.1	0.3	0.7	2.1	6.1	85	0.1	0.2	0.5	1.0	1.9	4.0
36	0.1	0.1	0.3	0.7	2.0	5.9	86	0.1	0.2	0.5	1.0	2.0	4.0
37	0.1	0.1	0.3	0.7	1.9	5.6	87	0.1	0.2	0.5	1.0	2.0	4.0
38	0.1	0.1	0.3	0.7	1.9	5.6	88	0.1	0.2	0.5	1.0	2.0	4.1
39	0.1	0.1	0.3	0.7	1.8	5.4	89	0.1	0.2	0.5	1.0	2.0	4.1
40	0.1	0.1	0.3	0.7	1.8	5.4	90	0.1	0.2	0.5	1.0	2.0	4.2
41	0.1	0.1	0.3	0.7	1.8	5.2	91	0.1	0.3	0.5	1.0	2.1	4.2
42	0.1	0.1	0.3	0.7	1.7	5.1	92	0.1	0.3	0.5	1.0	2.1	4.3
43	0.1	0.2	0.3	0.6	1.7	4.9	93	0.1	0.3	0.5	1.0	2.1	4.3
44	0.1	0.2	0.3	0.6	1.6	4.8	94	0.1	0.3	0.5	1.1	2.2	4.4
45	0.1	0.2	0.3	0.6	1.6	4.7	95	0.1	0.3	0.5	1.1	2.2	4.4
46	0.1	0.2	0.3	0.6	1.6	4.6	96	0.1	0.3	0.5	1.1	2.2	4.5
47	0.1	0.2	0.3	0.6	1.5	4.4	97	0.1	0.3	0.5	1.1	2.2	4.5
48	0.1	0.2	0.3	0.6	1.5	4.2	98	0.1	0.3	0.5	1.1	2.2	4.5
49	0.1	0.2	0.3	0.6	1.5	4.1	99	0.1	0.3	0.6	1.1	2.2	4.6
50	0.1	0.2	0.3	0.7	1.5	4.0	100	0.1	0.3	0.6	1.1	2.3	4.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 56 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																
		63	125	250	500	1000	2000	4000	8000									
1	T	0.1	0.3	0.8	1.9	3.4	4.8	6.9	8.8	51	0.1	0.2	0.3	0.7	1.5	3.8	11.5	21.0
2	E	0.1	0.3	0.8	1.9	3.5	5.2	7.3	9.3	52	0.1	0.2	0.3	0.7	1.4	3.7	11.2	20.6
3	10	0.1	0.3	0.8	2.0	3.7	5.6	7.8	9.9	53	0.1	0.2	0.3	0.7	1.4	3.7	10.9	20.0
4	E	0.1	0.3	0.8	2.0	3.8	5.9	8.3	10.5	54	0.1	0.2	0.3	0.7	1.4	3.6	10.6	19.5
5	13	0.1	0.3	0.7	2.0	3.9	6.3	8.9	11.1	55	0.1	0.2	0.3	0.7	1.4	3.5	10.3	19.0
6	E	0.1	0.2	0.7	1.9	4.0	6.7	9.5	11.8	56	0.1	0.2	0.3	0.7	1.4	3.5	10.0	18.5
7	16	0.1	0.2	0.7	1.8	4.1	7.1	10.1	12.5	57	0.1	0.2	0.4	0.7	1.4	3.4	9.8	18.1
8	E	0.1	0.2	0.7	1.8	4.1	7.4	10.6	13.3	58	0.1	0.2	0.4	0.7	1.5	3.4	9.5	17.7
9	19	0.1	0.2	0.6	1.7	4.2	7.7	11.6	14.2	59	0.1	0.2	0.4	0.7	1.5	3.3	9.3	17.3
10	E	0.1	0.2	0.6	1.7	4.3	8.0	12.3	15.1	60	0.1	0.2	0.4	0.7	1.5	3.3	9.1	16.8
11	22	0.1	0.2	0.6	1.6	4.3	8.3	13.1	16.0	61	0.1	0.2	0.4	0.7	1.5	3.3	8.9	16.4
12	E	0.1	0.2	0.6	1.6	4.2	8.5	13.8	17.1	62	0.1	0.2	0.4	0.7	1.5	3.3	8.7	16.0
13	25	0.1	0.2	0.5	1.5	4.1	8.7	14.6	18.1	63	0.1	0.2	0.4	0.8	1.5	3.3	8.5	15.6
14	E	0.1	0.2	0.5	1.5	4.0	8.9	15.4	19.3	64	0.1	0.2	0.4	0.8	1.5	3.3	8.4	15.2
15	28	0.1	0.2	0.5	1.4	3.9	9.0	16.2	20.4	65	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.9
16	E	0.1	0.2	0.5	1.4	3.8	9.1	16.8	21.6	66	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.6
17	31	0.1	0.2	0.5	1.3	3.7	9.3	17.4	22.7	67	0.1	0.2	0.4	0.8	1.6	3.3	8.0	14.3
18	E	0.1	0.2	0.4	1.3	3.6	9.3	18.0	24.0	68	0.1	0.2	0.4	0.8	1.6	3.4	7.9	14.0
19	34	0.1	0.1	0.4	1.2	3.5	9.3	19.5	25.0	69	0.1	0.2	0.4	0.8	1.6	3.4	7.8	13.8
20	E	0.1	0.1	0.4	1.2	3.4	9.2	19.9	26.1	70	0.1	0.2	0.4	0.8	1.7	3.4	7.8	13.6
21	37	0.1	0.1	0.4	1.2	3.3	8.9	19.3	27.0	71	0.1	0.2	0.4	0.8	1.7	3.5	7.7	13.4
22	E	0.1	0.1	0.4	1.1	3.2	8.7	19.7	27.9	72	0.1	0.2	0.4	0.8	1.7	3.5	7.7	13.2
23	40	0.1	0.1	0.4	1.1	3.1	8.4	20.0	28.7	73	0.1	0.2	0.4	0.8	1.7	3.5	7.7	13.0
24	E	0.1	0.1	0.4	1.0	3.0	8.2	20.3	29.3	74	0.1	0.2	0.4	0.9	1.7	3.6	7.7	12.8
25	43	0.1	0.1	0.3	1.0	2.9	8.0	20.5	29.9	75	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.7
26	E	0.1	0.1	0.3	1.0	2.8	7.8	20.6	30.5	76	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.7
27	46	0.1	0.1	0.3	0.9	2.7	7.7	20.5	31.0	77	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.6
28	E	0.1	0.1	0.3	0.9	2.6	7.5	20.3	31.5	78	0.1	0.2	0.4	0.9	1.9	3.7	7.8	12.5
29	49	0.1	0.1	0.3	0.9	2.6	7.3	19.9	31.9	79	0.1	0.2	0.4	0.9	1.9	3.8	7.9	12.5
30	E	0.1	0.1	0.3	0.8	2.5	7.1	19.3	32.2	80	0.1	0.2	0.5	0.9	1.8	3.8	8.0	12.5
31	52	0.1	0.1	0.3	0.8	2.4	6.9	18.8	32.2	81	0.1	0.2	0.5	0.9	1.9	3.8	8.1	12.5
32	E	0.1	0.1	0.3	0.8	2.3	6.7	18.4	32.1	82	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
33	55	0.1	0.1	0.3	0.8	2.2	6.5	18.0	31.6	83	0.1	0.2	0.5	0.9	1.9	4.0	8.3	12.6
34	E	0.1	0.1	0.3	0.7	2.2	6.3	17.6	30.9	84	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
35	58	0.1	0.1	0.3	0.7	2.1	6.1	17.3	30.1	85	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
36	E	0.1	0.1	0.3	0.7	2.0	6.0	16.9	29.4	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
37	61	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.2	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	E	0.1	0.1	0.3	0.7	1.8	5.4	15.8	27.7	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	64	0.1	0.1	0.3	0.7	1.8	5.3	15.4	27.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	E	0.1	0.1	0.3	0.7	1.7	5.1	15.0	26.7	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	67	0.1	0.1	0.3	0.7	1.7	5.0	14.6	26.1	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	E	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.1	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	70	0.1	0.2	0.3	0.6	1.6	4.8	14.2	25.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	E	0.1	0.2	0.3	0.6	1.6	4.7	13.8	24.9	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	73	0.1	0.2	0.3	0.6	1.6	4.6	13.5	24.3	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	E	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.8	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	76	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.2	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	E	0.1	0.2	0.3	0.6	1.5	4.1	12.4	22.6	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	79	0.1	0.2	0.3	0.7	1.5	4.0	12.1	22.1	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	E	0.1	0.2	0.3	0.7	1.5	3.9	11.8	21.5	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 57 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	31500
1	0.1	0.3	0.8	1.9	3.4	4.9	7.0	8.9	11.3	20.7
2	0.1	0.3	0.8	1.9	3.6	5.3	7.5	9.4	11.0	20.2
3	0.1	0.3	0.8	2.0	3.7	5.7	8.0	10.0	11.6	19.6
4	0.1	0.3	0.7	2.0	3.8	6.0	8.5	10.6	12.4	19.1
5	0.1	0.3	0.7	1.9	3.9	6.4	9.1	11.3	13.1	18.7
6	0.1	0.2	0.7	1.9	4.0	6.8	9.7	12.0	14.0	18.2
7	0.1	0.2	0.7	1.8	4.1	7.2	10.3	12.8	15.0	17.9
8	0.1	0.2	0.6	1.7	4.2	7.5	11.0	13.6	16.1	17.4
9	0.1	0.2	0.6	1.7	4.2	7.8	11.8	14.4	17.1	17.0
10	0.1	0.2	0.6	1.6	4.2	8.1	12.6	15.4	18.1	16.5
11	0.1	0.2	0.6	1.6	4.2	8.3	13.3	16.3	19.1	16.1
12	0.1	0.2	0.6	1.6	4.2	8.5	14.1	17.4	20.1	15.7
13	0.1	0.2	0.5	1.5	4.1	8.7	14.9	18.5	21.1	15.3
14	0.1	0.2	0.5	1.5	3.9	8.9	15.7	19.7	22.1	15.0
15	0.1	0.2	0.5	1.4	3.8	9.0	16.3	20.8	23.1	14.6
16	0.1	0.2	0.5	1.4	3.7	9.2	17.0	21.9	24.1	14.3
17	0.1	0.2	0.5	1.3	3.6	9.3	17.6	23.1	25.1	13.8
18	0.1	0.1	0.4	1.3	3.5	9.3	18.1	24.3	26.1	13.6
19	0.1	0.1	0.4	1.2	3.4	9.2	18.6	25.4	27.1	13.4
20	0.1	0.1	0.4	1.2	3.3	9.1	19.0	26.3	28.1	13.2
21	0.1	0.1	0.4	1.1	3.2	8.8	19.4	27.3	29.1	13.0
22	0.1	0.1	0.4	1.1	3.1	8.5	19.7	28.1	30.1	12.8
23	0.1	0.1	0.4	1.1	3.1	8.3	20.0	29.1	31.1	12.6
24	0.1	0.1	0.3	1.0	3.0	8.1	20.3	30.1	32.1	12.4
25	0.1	0.1	0.3	1.0	2.9	7.9	20.5	31.1	33.1	12.2
26	0.1	0.1	0.3	1.0	2.8	7.7	20.5	32.1	34.1	12.0
27	0.1	0.1	0.3	0.9	2.7	7.6	20.4	33.1	35.1	11.8
28	0.1	0.1	0.3	0.9	2.6	7.4	20.4	34.1	36.1	11.6
29	0.1	0.1	0.3	0.8	2.5	7.2	19.5	35.1	37.1	11.4
30	0.1	0.1	0.3	0.8	2.4	7.0	19.0	36.1	38.1	11.2
31	0.1	0.1	0.3	0.8	2.3	6.8	18.5	37.1	39.1	11.0
32	0.1	0.1	0.3	0.8	2.3	6.6	18.1	38.1	40.1	10.8
33	0.1	0.1	0.3	0.7	2.2	6.4	17.7	39.1	41.1	10.6
34	0.1	0.1	0.3	0.7	2.1	6.2	17.4	40.1	42.1	10.4
35	0.1	0.1	0.3	0.7	2.1	6.0	17.1	41.1	43.1	10.2
36	0.1	0.1	0.3	0.7	2.0	5.9	16.7	42.1	44.1	10.0
37	0.1	0.1	0.3	0.7	1.9	5.7	16.3	43.1	45.1	9.8
38	0.1	0.1	0.3	0.7	1.9	5.5	15.9	44.1	46.1	9.6
39	0.1	0.1	0.3	0.7	1.8	5.3	15.5	45.1	47.1	9.4
40	0.1	0.1	0.3	0.7	1.7	5.2	15.1	46.1	48.1	9.2
41	0.1	0.1	0.3	0.6	1.7	5.0	14.7	47.1	49.1	9.0
42	0.1	0.1	0.3	0.6	1.7	4.8	14.3	48.1	50.1	8.8
43	0.1	0.2	0.3	0.6	1.6	4.6	13.9	49.1	51.1	8.6
44	0.1	0.2	0.3	0.6	1.6	4.4	13.6	50.1	52.1	8.4
45	0.1	0.2	0.3	0.6	1.5	4.3	13.2	51.1	53.1	8.2
46	0.1	0.2	0.3	0.6	1.5	4.2	12.9	52.1	54.1	8.0
47	0.1	0.2	0.3	0.6	1.5	4.1	12.6	53.1	55.1	7.8
48	0.1	0.2	0.3	0.6	1.5	4.1	12.2	54.1	56.1	7.6
49	0.1	0.2	0.3	0.6	1.5	4.0	11.9	55.1	57.1	7.4
50	0.1	0.2	0.3	0.7	1.5	3.9	11.6	56.1	58.1	7.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 50 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
		63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	T 9	0.1	0.3	0.8	1.9	3.5	5.0	7.1	9.1	51	0.1	0.2	0.3	0.7	1.4	3.7	11.1	20.4
2	E 10	0.1	0.3	0.8	1.9	3.6	5.4	7.6	9.6	52	0.1	0.2	0.3	0.7	1.4	3.6	10.8	19.8
3	F 11	0.1	0.3	0.8	2.0	3.7	5.8	8.1	10.2	53	0.1	0.2	0.3	0.7	1.4	3.6	10.5	19.3
4	F 12	0.1	0.3	0.7	1.9	3.8	6.1	8.7	10.8	54	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.8
5	F 13	0.1	0.3	0.7	1.9	3.9	6.5	9.2	11.5	55	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.3
6	F 14	0.1	0.2	0.7	1.8	4.0	6.9	9.9	12.2	56	0.1	0.2	0.3	0.7	1.4	3.4	9.6	17.9
7	F 15	0.1	0.2	0.7	1.8	4.1	7.3	10.5	13.0	57	0.1	0.2	0.4	0.7	1.4	3.3	9.4	17.5
8	F 16	0.1	0.2	0.6	1.7	4.2	7.6	11.3	13.8	58	0.1	0.2	0.4	0.7	1.5	3.3	9.2	17.1
9	F 17	0.1	0.2	0.6	1.7	4.2	7.9	12.0	14.7	59	0.1	0.2	0.4	0.7	1.5	3.3	9.0	16.7
10	F 18	0.1	0.2	0.6	1.6	4.2	8.1	12.8	15.6	60	0.1	0.2	0.4	0.7	1.5	3.3	8.8	16.2
11	F 19	0.1	0.2	0.6	1.6	4.2	8.4	13.5	16.6	61	0.1	0.2	0.4	0.7	1.5	3.3	8.6	15.8
12	F 20	0.1	0.2	0.5	1.5	4.1	8.6	14.3	17.7	62	0.1	0.2	0.4	0.7	1.5	3.2	8.4	15.4
13	F 21	0.1	0.2	0.5	1.5	4.0	8.7	15.1	18.9	63	0.1	0.2	0.4	0.8	1.5	3.2	8.3	15.0
14	F 22	0.1	0.2	0.5	1.4	3.9	8.9	15.9	20.0	64	0.1	0.2	0.4	0.8	1.5	3.2	8.2	14.7
15	F 23	0.1	0.2	0.5	1.4	3.8	9.0	16.5	21.1	65	0.1	0.2	0.4	0.8	1.6	3.2	8.0	14.4
16	F 24	0.1	0.2	0.5	1.3	3.7	9.2	17.2	22.3	66	0.1	0.2	0.4	0.8	1.6	3.2	7.9	14.1
17	F 25	0.1	0.2	0.4	1.3	3.6	9.2	17.7	23.5	67	0.1	0.2	0.4	0.8	1.6	3.3	7.8	13.8
18	F 26	0.1	0.1	0.4	1.2	3.5	9.2	18.2	24.6	68	0.1	0.2	0.4	0.8	1.6	3.3	7.7	13.6
19	F 27	0.1	0.1	0.4	1.2	3.4	9.1	18.7	25.6	69	0.1	0.2	0.4	0.8	1.7	3.4	7.7	13.4
20	F 28	0.1	0.1	0.4	1.2	3.3	8.9	19.1	26.6	70	0.1	0.2	0.4	0.8	1.7	3.4	7.7	13.2
21	F 29	0.1	0.1	0.4	1.1	3.2	8.6	19.4	27.5	71	0.1	0.2	0.4	0.8	1.7	3.5	7.6	12.8
22	F 30	0.1	0.1	0.4	1.1	3.1	8.4	19.8	28.3	72	0.1	0.2	0.4	0.8	1.7	3.5	7.6	12.6
23	F 31	0.1	0.1	0.4	1.0	3.0	8.2	20.0	29.0	73	0.1	0.2	0.4	0.8	1.7	3.5	7.6	12.4
24	F 32	0.1	0.1	0.3	1.0	2.9	8.0	20.3	29.6	74	0.1	0.2	0.4	0.9	1.7	3.5	7.6	12.3
25	F 33	0.1	0.1	0.3	1.0	2.8	7.8	20.4	30.2	75	0.1	0.2	0.4	0.9	1.7	3.6	7.6	12.2
26	F 34	0.1	0.1	0.3	0.9	2.7	7.7	20.4	30.7	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.1
27	F 35	0.1	0.1	0.3	0.9	2.6	7.5	20.2	31.1	77	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.0
28	F 36	0.1	0.1	0.3	0.8	2.5	7.3	19.8	31.5	78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
29	F 37	0.1	0.1	0.3	0.8	2.4	7.1	19.2	31.9	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9	11.8
30	F 38	0.1	0.1	0.3	0.8	2.4	6.9	18.7	32.3	80	0.1	0.2	0.5	0.9	1.9	3.8	8.0	11.7
31	F 39	0.1	0.1	0.3	0.8	2.3	6.7	18.3	32.8	81	0.1	0.2	0.5	0.9	1.9	3.9	8.1	11.6
32	F 40	0.1	0.1	0.3	0.8	2.2	6.5	17.9	33.4	82	0.1	0.2	0.5	0.9	1.9	3.9	8.2	11.5
33	F 41	0.1	0.1	0.3	0.7	2.2	6.3	17.5	34.0	83	0.1	0.2	0.5	0.9	1.9	4.0	8.3	11.4
34	F 42	0.1	0.1	0.3	0.7	2.1	6.1	17.2	34.7	84	0.1	0.2	0.5	1.0	2.0	4.0	8.3	11.3
35	F 43	0.1	0.1	0.3	0.7	2.0	5.9	16.8	35.4	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	11.2
36	F 44	0.1	0.1	0.3	0.7	1.9	5.8	16.4	36.1	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	11.1
37	F 45	0.1	0.1	0.3	0.7	1.9	5.6	16.0	36.8	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	11.0
38	F 46	0.1	0.1	0.3	0.7	1.8	5.4	15.6	37.5	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	10.9
39	F 47	0.1	0.1	0.3	0.6	1.8	5.2	15.2	38.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	10.8
40	F 48	0.1	0.1	0.3	0.6	1.7	5.1	14.8	38.9	90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	10.7
41	F 49	0.1	0.1	0.3	0.6	1.7	4.9	14.5	39.6	91	0.1	0.2	0.5	1.0	2.1	4.2	8.8	10.6
42	F 50	0.1	0.1	0.3	0.6	1.6	4.8	14.1	40.3	92	0.1	0.2	0.5	1.0	2.1	4.3	8.9	10.5
43	F 51	0.1	0.1	0.3	0.6	1.6	4.7	13.7	41.0	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	10.4
44	F 52	0.1	0.2	0.3	0.6	1.6	4.5	13.4	41.7	94	0.1	0.2	0.5	1.1	2.1	4.3	9.0	10.3
45	F 53	0.1	0.2	0.3	0.6	1.5	4.4	13.0	42.4	95	0.1	0.2	0.5	1.1	2.2	4.4	9.1	10.2
46	F 54	0.1	0.2	0.3	0.6	1.5	4.2	12.7	43.1	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	10.1
47	F 55	0.1	0.2	0.3	0.6	1.5	4.1	12.3	43.8	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	10.0
48	F 56	0.1	0.2	0.3	0.6	1.5	4.0	12.0	44.5	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	9.9
49	F 57	0.1	0.2	0.3	0.7	1.5	3.9	11.6	45.2	99	0.1	0.2	0.6	1.1	2.2	4.6	9.5	9.8
50	F 58	0.1	0.2	0.3	0.7	1.4	3.8	11.4	46.0	100	0.1	0.2	0.6	1.1	2.3	4.6	9.6	9.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 59 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ									
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.4	1.9	3.5	5.1	7.3	9.2	51	0.1	0.2	0.3	0.7	1.4	3.7	10.9
2	0.1	0.3	0.8	1.9	3.6	5.5	7.7	9.8	52	0.1	0.2	0.3	0.7	1.4	3.6	10.6
3	0.1	0.3	0.7	1.9	3.8	5.9	8.3	10.4	53	0.1	0.2	0.3	0.7	1.4	3.5	10.3
4	0.1	0.3	0.7	1.9	3.9	6.2	8.8	11.0	54	0.1	0.2	0.3	0.7	1.4	3.5	10.0
5	0.1	0.2	0.7	1.9	4.0	6.6	9.4	11.7	55	0.1	0.2	0.3	0.7	1.4	3.4	9.7
6	0.1	0.2	0.7	1.8	4.0	7.0	10.1	12.4	56	0.1	0.2	0.3	0.7	1.4	3.3	9.5
7	0.1	0.2	0.6	1.8	4.1	7.3	10.7	13.2	57	0.1	0.2	0.4	0.7	1.4	3.3	9.2
8	0.1	0.2	0.6	1.7	4.2	7.7	11.5	14.1	58	0.1	0.2	0.4	0.7	1.5	3.3	9.0
9	0.1	0.2	0.6	1.6	4.2	7.9	12.3	15.0	59	0.1	0.2	0.4	0.7	1.5	3.3	8.8
10	0.1	0.2	0.6	1.6	4.2	8.2	13.0	15.9	60	0.1	0.2	0.4	0.7	1.5	3.3	8.6
11	0.1	0.2	0.6	1.6	4.2	8.4	13.8	17.0	61	0.1	0.2	0.4	0.7	1.5	3.2	8.5
12	0.1	0.2	0.5	1.5	4.1	8.6	14.5	18.1	62	0.1	0.2	0.4	0.7	1.5	3.2	8.3
13	0.1	0.2	0.5	1.5	3.9	8.8	15.3	19.2	63	0.1	0.2	0.4	0.8	1.5	3.2	8.2
14	0.1	0.2	0.5	1.4	3.8	8.9	16.0	20.3	64	0.1	0.2	0.4	0.8	1.5	3.2	8.1
15	0.1	0.2	0.5	1.4	3.7	9.1	16.7	21.5	65	0.1	0.2	0.4	0.8	1.6	3.2	7.9
16	0.1	0.2	0.5	1.3	3.6	9.2	17.3	22.6	66	0.1	0.2	0.4	0.8	1.6	3.2	7.8
17	0.1	0.1	0.4	1.3	3.5	9.2	17.9	23.8	67	0.1	0.2	0.4	0.8	1.6	3.3	7.7
18	0.1	0.1	0.4	1.2	3.4	9.2	18.3	24.9	68	0.1	0.2	0.4	0.8	1.6	3.3	7.7
19	0.1	0.1	0.4	1.2	3.3	9.0	18.7	25.9	69	0.1	0.2	0.4	0.8	1.6	3.4	7.7
20	0.1	0.1	0.4	1.1	3.2	8.8	19.1	26.8	70	0.1	0.2	0.4	0.8	1.7	3.4	7.6
21	0.1	0.1	0.4	1.1	3.1	8.5	19.5	27.7	71	0.1	0.2	0.4	0.8	1.7	3.4	7.6
22	0.1	0.1	0.4	1.1	3.0	8.3	19.8	28.4	72	0.1	0.2	0.4	0.8	1.7	3.5	7.5
23	0.1	0.1	0.3	1.0	2.9	8.1	20.0	29.1	73	0.1	0.2	0.4	0.8	1.7	3.5	7.5
24	0.1	0.1	0.3	1.0	2.9	7.9	20.3	29.7	74	0.1	0.2	0.4	0.9	1.7	3.5	7.5
25	0.1	0.1	0.3	1.0	2.8	7.7	20.3	30.3	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5
26	0.1	0.1	0.3	0.9	2.7	7.5	20.2	30.7	76	0.1	0.2	0.4	0.9	1.8	3.6	7.5
27	0.1	0.1	0.3	0.9	2.6	7.3	20.0	31.2	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6
28	0.1	0.1	0.3	0.8	2.5	7.1	19.5	31.5	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7
29	0.1	0.1	0.3	0.8	2.4	6.9	18.9	31.8	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9
30	0.1	0.1	0.3	0.8	2.3	6.8	18.4	31.8	80	0.1	0.2	0.5	0.9	1.9	3.8	8.0
31	0.1	0.1	0.3	0.8	2.3	6.6	18.0	31.6	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0
32	0.1	0.1	0.3	0.7	2.2	6.4	17.6	31.0	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1
33	0.1	0.1	0.3	0.7	2.1	6.2	17.3	30.2	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2
34	0.1	0.1	0.3	0.7	2.0	6.0	17.0	29.5	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2
35	0.1	0.1	0.3	0.7	2.0	5.8	16.6	28.8	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3
36	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.2	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3
37	0.1	0.1	0.3	0.7	1.8	5.5	15.8	27.6	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4
38	0.1	0.1	0.3	0.6	1.8	5.3	15.4	27.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5
39	0.1	0.1	0.3	0.6	1.7	5.1	15.0	26.7	89	0.1	0.3	0.5	1.0	2.0	4.1	8.6
40	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.1	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7
41	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.5	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8
42	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.9	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9
43	0.1	0.2	0.3	0.6	1.6	4.6	13.5	24.3	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0
44	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.8	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0
45	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.2	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1
46	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.6	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2
47	0.1	0.2	0.3	0.6	1.5	4.0	12.1	22.0	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3
48	0.1	0.2	0.3	0.6	1.4	3.9	11.8	21.5	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4
49	0.1	0.2	0.3	0.7	1.4	3.8	11.4	21.0	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5
50	0.1	0.2	0.3	0.7	1.4	3.7	11.2	20.5	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 60 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	0.1	0.3	0.8	1.9	3.5	5.2	7.4	9.4			0.1	0.2	0.3	0.7	1.4	3.6	10.7	19.7		
2	0.1	0.3	0.8	1.9	3.7	5.6	7.9	9.9			0.1	0.2	0.3	0.7	1.4	3.5	10.4	19.1		
3	0.1	0.3	0.7	1.9	3.8	6.0	8.4	10.5			0.1	0.2	0.3	0.7	1.4	3.5	10.1	18.6		
4	0.1	0.3	0.7	1.9	3.9	6.3	9.0	11.2			0.1	0.2	0.3	0.7	1.4	3.4	9.8	18.2		
5	0.1	0.2	0.7	1.8	4.0	6.7	9.6	11.9			0.1	0.2	0.3	0.7	1.4	3.3	9.6	17.8		
6	0.1	0.2	0.7	1.8	4.0	7.1	10.3	12.7			0.1	0.2	0.3	0.7	1.4	3.3	9.3	17.4		
7	0.1	0.2	0.6	1.7	4.1	7.4	10.9	13.5			0.1	0.2	0.4	0.7	1.4	3.3	9.1	16.9		
8	0.1	0.2	0.6	1.7	4.2	7.7	11.7	14.3			0.1	0.2	0.4	0.7	1.5	3.3	8.9	16.5		
9	0.1	0.2	0.6	1.6	4.2	8.0	12.5	15.2			0.1	0.2	0.4	0.7	1.5	3.3	8.7	16.1		
10	0.1	0.2	0.6	1.6	4.2	8.2	13.2	16.2			0.1	0.2	0.4	0.7	1.5	3.2	8.5	15.6		
11	0.1	0.2	0.5	1.5	4.1	8.4	14.0	17.3			0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.2		
12	0.1	0.2	0.5	1.5	4.0	8.6	14.8	18.4			0.1	0.2	0.4	0.7	1.5	3.2	8.2	14.9		
13	0.1	0.2	0.5	1.4	3.9	8.8	15.5	19.5			0.1	0.2	0.4	0.8	1.5	3.2	8.1	14.6		
14	0.1	0.2	0.5	1.4	3.8	8.9	16.2	20.6			0.1	0.2	0.4	0.8	1.5	3.2	7.9	14.2		
15	0.1	0.2	0.5	1.3	3.7	9.1	16.9	21.8			0.1	0.2	0.4	0.8	1.6	3.2	7.8	14.0		
16	0.1	0.2	0.4	1.3	3.6	9.2	17.4	23.0			0.1	0.2	0.4	0.8	1.6	3.2	7.7	13.7		
17	0.1	0.1	0.4	1.2	3.5	9.2	18.0	24.2			0.1	0.2	0.4	0.8	1.6	3.3	7.7	13.5		
18	0.1	0.1	0.4	1.2	3.4	9.1	18.4	25.2			0.1	0.2	0.4	0.8	1.6	3.3	7.6	13.2		
19	0.1	0.1	0.4	1.2	3.3	8.9	18.8	26.2			0.1	0.2	0.4	0.8	1.6	3.4	7.6	13.1		
20	0.1	0.1	0.4	1.1	3.2	8.6	19.2	27.1			0.1	0.2	0.4	0.8	1.7	3.4	7.6	12.9		
21	0.1	0.1	0.4	1.1	3.1	8.4	19.5	27.9			0.1	0.2	0.4	0.8	1.7	3.4	7.5	12.7		
22	0.1	0.1	0.4	1.0	3.0	8.2	19.8	28.6			0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.5		
23	0.1	0.1	0.3	1.0	2.9	8.0	20.1	29.2			0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.5		
24	0.1	0.1	0.3	1.0	2.8	7.8	20.2	29.8			0.1	0.2	0.4	0.9	1.7	3.5	7.5	12.4		
25	0.1	0.1	0.3	0.9	2.7	7.6	20.2	30.3			0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.4		
26	0.1	0.1	0.3	0.9	2.6	7.4	20.1	30.8			0.1	0.2	0.4	0.9	1.8	3.6	7.5	12.3		
27	0.1	0.1	0.3	0.9	2.5	7.2	19.7	31.2			0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.3		
28	0.1	0.1	0.3	0.8	2.5	7.0	19.1	31.5			0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.2		
29	0.1	0.1	0.3	0.8	2.4	6.8	18.6	31.7			0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.2		
30	0.1	0.1	0.3	0.8	2.3	6.6	18.2	31.6			0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2		
31	0.1	0.1	0.3	0.8	2.2	6.4	17.8	31.3			0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2		
32	0.1	0.1	0.3	0.7	2.2	6.3	17.4	30.6			0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3		
33	0.1	0.1	0.3	0.7	2.1	6.1	17.1	29.7			0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4		
34	0.1	0.1	0.3	0.7	2.0	5.9	16.7	29.1			0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5		
35	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.4			0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6		
36	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8			0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6		
37	0.1	0.1	0.3	0.7	1.8	5.4	15.6	27.3			0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9		
38	0.1	0.1	0.3	0.6	1.8	5.2	15.2	26.8			0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0		
39	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.3			0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1		
40	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.7			0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3		
41	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.1			0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4		
42	0.1	0.1	0.3	0.6	1.6	4.6	13.6	24.6			0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5		
43	0.1	0.1	0.2	0.6	1.5	4.5	13.3	24.0			0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7		
44	0.1	0.1	0.2	0.6	1.5	4.3	12.9	23.4			0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8		
45	0.1	0.1	0.2	0.6	1.5	4.2	12.6	22.8			0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9		
46	0.1	0.1	0.2	0.6	1.5	4.1	12.2	22.2			0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1		
47	0.1	0.1	0.2	0.6	1.4	4.0	11.9	21.7			0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2		
48	0.1	0.1	0.2	0.6	1.4	3.9	11.6	21.2			0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4		
49	0.1	0.1	0.2	0.6	1.4	3.8	11.3	20.7			0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5		
50	0.1	0.2	0.3	0.7	1.4	3.7	11.0	20.2			0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT. FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 61 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ					
		63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	T	0.1	0.3	0.8	1.9	3.6	5.3	7.5	9.5	11.5	13.5	15.5	17.5
2	E	0.1	0.3	0.7	1.9	3.7	5.7	8.0	10.1	12.1	14.1	16.1	18.1
3	E	0.1	0.3	0.7	1.9	3.8	6.1	8.6	10.7	12.7	14.7	16.7	18.7
4	E	0.1	0.3	0.7	1.9	3.9	6.4	9.2	11.4	13.4	15.4	17.4	19.4
5	E	0.1	0.2	0.7	1.8	4.0	6.8	9.8	12.1	14.1	16.1	18.1	20.1
6	E	0.1	0.2	0.7	1.8	4.1	7.2	10.4	12.9	14.9	16.9	18.9	20.9
7	E	0.1	0.2	0.6	1.7	4.1	7.5	11.2	13.7	15.7	17.7	19.7	21.7
8	E	0.1	0.2	0.6	1.7	4.2	7.8	11.9	14.6	16.6	18.6	20.6	22.6
9	E	0.1	0.2	0.6	1.6	4.2	8.1	12.7	15.5	17.5	19.5	21.5	23.5
10	E	0.1	0.2	0.6	1.6	4.2	8.3	13.4	16.5	18.5	20.5	22.5	24.5
11	E	0.1	0.2	0.5	1.5	4.1	8.5	14.2	17.6	19.6	21.6	23.6	25.6
12	E	0.1	0.2	0.5	1.5	4.1	8.7	15.0	18.7	20.7	22.7	24.7	26.7
13	E	0.1	0.2	0.5	1.4	3.9	8.8	15.7	19.9	21.9	23.9	25.9	27.9
14	E	0.1	0.2	0.5	1.4	3.9	8.9	16.4	21.0	23.0	25.0	27.0	29.0
15	E	0.1	0.2	0.5	1.3	3.6	9.1	17.0	22.1	24.1	26.1	28.1	30.1
16	E	0.1	0.1	0.4	1.3	3.5	9.1	17.6	23.3	25.3	27.3	29.3	31.3
17	E	0.1	0.1	0.4	1.2	3.4	9.1	18.1	24.4	26.4	28.4	30.4	32.4
18	E	0.1	0.1	0.4	1.2	3.3	9.0	18.5	25.5	27.5	29.5	31.5	33.5
19	E	0.1	0.1	0.4	1.1	3.2	8.8	18.9	26.4	28.4	30.4	32.4	34.4
20	E	0.1	0.1	0.4	1.1	3.1	8.5	19.3	27.3	29.3	31.3	33.3	35.3
21	E	0.1	0.1	0.4	1.1	3.0	8.3	19.6	28.1	30.1	32.1	34.1	36.1
22	E	0.1	0.1	0.3	1.0	2.9	8.1	19.8	28.7	30.7	32.7	34.7	36.7
23	E	0.1	0.1	0.3	1.0	2.9	7.9	20.1	29.3	31.3	33.3	35.3	37.3
24	E	0.1	0.1	0.3	0.9	2.8	7.7	20.2	29.9	31.9	33.9	35.9	37.9
25	E	0.1	0.1	0.3	0.9	2.7	7.5	20.1	30.4	32.4	34.4	36.4	38.4
26	E	0.1	0.1	0.3	0.9	2.6	7.3	19.9	30.8	32.8	34.8	36.8	38.8
27	E	0.1	0.1	0.3	0.8	2.5	7.1	19.4	31.2	33.2	35.2	37.2	39.2
28	E	0.1	0.1	0.3	0.8	2.4	6.9	18.8	31.5	33.5	35.5	37.5	39.5
29	E	0.1	0.1	0.3	0.8	2.3	6.7	18.4	31.5	33.5	35.5	37.5	39.5
30	E	0.1	0.1	0.3	0.8	2.2	6.5	18.0	31.4	33.4	35.4	37.4	39.4
31	E	0.1	0.1	0.3	0.7	2.2	6.3	17.6	30.9	32.9	34.9	36.9	38.9
32	E	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.1	32.1	34.1	36.1	38.1
33	E	0.1	0.1	0.3	0.7	2.0	6.0	16.9	29.3	31.3	33.3	35.3	37.3
34	E	0.1	0.1	0.3	0.7	2.0	5.8	16.5	28.7	30.7	32.7	34.7	36.7
35	E	0.1	0.1	0.3	0.7	1.9	5.6	16.1	28.0	30.0	32.0	34.0	36.0
36	E	0.1	0.1	0.3	0.7	1.8	5.5	15.7	27.5	29.5	31.5	33.5	35.5
37	E	0.1	0.1	0.3	0.6	1.8	5.3	15.3	27.0	29.0	31.0	33.0	35.0
38	E	0.1	0.1	0.3	0.6	1.7	5.1	14.9	26.5	28.5	30.5	32.5	34.5
39	E	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.9	27.9	29.9	31.9	33.9
40	E	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.4	27.4	29.4	31.4	33.4
41	E	0.1	0.1	0.3	0.5	1.6	4.7	13.8	24.8	26.8	28.8	30.8	32.8
42	E	0.1	0.1	0.3	0.5	1.6	4.6	13.4	24.2	26.2	28.2	30.2	32.2
43	E	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.6	25.6	27.6	29.6	31.6
44	E	0.1	0.2	0.3	0.6	1.5	4.3	12.7	23.0	25.0	27.0	29.0	31.0
45	E	0.1	0.2	0.3	0.6	1.5	4.1	12.4	22.5	24.5	26.5	28.5	30.5
46	E	0.1	0.2	0.3	0.6	1.4	4.0	12.0	21.9	23.9	25.9	27.9	29.9
47	E	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4	23.4	25.4	27.4	29.4
48	E	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.8	22.8	24.8	26.8	28.8
49	E	0.1	0.2	0.3	0.7	1.4	3.7	11.1	20.4	22.4	24.4	26.4	28.4
50	E	0.1	0.2	0.3	0.7	1.4	3.6	10.8	19.9	21.9	23.9	25.9	27.9

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 62 PERCENT RELATIVE HUMIDITY

	HAND CENTER FREQUENCY, HZ					HAND CENTER FREQUENCY, HZ											
	63	125	250	500	1000	2000	4000	8000									
1	0.1	0.3	0.6	1.9	3.6	5.4	7.7	9.7	51	0.1	0.2	0.3	0.7	1.4	3.5	10.3	19.0
2	0.1	0.3	0.7	1.9	3.7	5.4	8.2	10.3	52	0.1	0.2	0.3	0.7	1.4	3.4	10.0	18.5
3	0.1	0.3	0.7	1.9	3.8	5.2	8.7	10.9	53	0.1	0.2	0.3	0.7	1.4	3.4	9.8	18.0
4	0.1	0.2	0.7	1.9	3.9	6.5	9.3	11.6	54	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.6
5	0.1	0.2	0.7	1.9	4.0	6.9	10.0	12.3	55	0.1	0.2	0.3	0.7	1.4	3.3	9.2	17.2
6	0.1	0.2	0.6	1.7	4.1	7.3	10.6	13.1	56	0.1	0.2	0.3	0.7	1.4	3.2	9.0	16.8
7	0.1	0.2	0.6	1.7	4.1	7.6	11.4	13.9	57	0.1	0.2	0.4	0.7	1.4	3.2	8.8	16.4
8	0.1	0.2	0.6	1.6	4.2	7.9	12.1	14.9	58	0.1	0.2	0.4	0.7	1.5	3.2	8.6	15.9
9	0.1	0.2	0.6	1.6	4.2	8.1	12.9	15.8	59	0.1	0.2	0.4	0.7	1.5	3.2	8.4	15.5
10	0.1	0.2	0.5	1.5	4.1	8.3	13.6	16.8	60	0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.1
E 11	0.1	0.2	0.5	1.5	4.0	8.5	14.4	17.9	F 61	0.1	0.2	0.4	0.7	1.5	3.2	8.1	14.7
M 12	0.1	0.2	0.5	1.4	3.9	8.7	15.2	19.1	M 62	0.1	0.2	0.4	0.7	1.5	3.2	8.0	14.4
E 13	0.1	0.2	0.5	1.4	3.8	8.8	15.5	20.2	P 63	0.1	0.2	0.4	0.8	1.5	3.2	7.9	14.1
P 14	0.1	0.2	0.5	1.3	3.7	9.0	16.6	21.3	E 64	0.1	0.2	0.4	0.8	1.5	3.2	7.7	13.8
R 15	0.1	0.2	0.4	1.3	3.6	9.1	17.2	22.5	R 65	0.1	0.2	0.4	0.8	1.5	3.2	7.6	13.6
A 16	0.1	0.1	0.4	1.2	3.5	9.1	17.7	23.7	A 66	0.1	0.2	0.4	0.8	1.6	3.2	7.6	13.3
T 17	0.1	0.1	0.4	1.2	3.4	9.1	18.2	24.7	T 67	0.1	0.2	0.4	0.8	1.6	3.3	7.6	13.1
J 18	0.1	0.1	0.4	1.2	3.3	9.4	18.6	25.7	U 68	0.1	0.2	0.4	0.8	1.6	3.3	7.5	12.9
R 19	0.1	0.1	0.4	1.1	3.2	8.6	19.0	26.6	E 69	0.1	0.2	0.4	0.8	1.6	3.4	7.5	12.7
E 20	0.1	0.1	0.4	1.1	3.1	8.4	19.3	27.5	E 70	0.1	0.2	0.4	0.8	1.7	3.4	7.4	12.6
P 21	0.1	0.1	0.4	1.0	3.0	8.2	19.6	28.2	71	0.1	0.2	0.4	0.8	1.7	3.4	7.4	12.4
D 22	0.1	0.1	0.3	1.0	2.9	8.0	19.8	28.8	72	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.3
E 23	0.1	0.1	0.3	1.0	2.8	7.8	20.0	29.4	D 73	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.3
E 24	0.1	0.1	0.3	0.9	2.7	7.6	20.1	30.0	E 74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.3
G 25	0.1	0.1	0.3	0.9	2.6	7.4	20.0	30.4	G 75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.2
E 26	0.1	0.1	0.3	0.9	2.5	7.2	19.6	30.9	R 76	0.1	0.2	0.4	0.9	1.8	3.6	7.5	12.1
E 27	0.1	0.1	0.3	0.8	2.5	7.0	19.1	31.2	E 77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.1
E 28	0.1	0.1	0.3	0.8	2.4	6.8	18.6	31.4	E 78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.1
S 29	0.1	0.1	0.3	0.8	2.3	6.6	18.1	31.4	S 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.1
30	0.1	0.1	0.3	0.7	2.2	6.4	17.7	31.1	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
F 31	0.1	0.1	0.3	0.7	2.2	6.2	17.3	30.5	F 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
A 32	0.1	0.1	0.3	0.7	2.1	6.1	17.0	29.6	A 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
H 33	0.1	0.1	0.3	0.7	2.0	5.9	16.7	28.9	H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
Q 34	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.3	R 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
F 35	0.1	0.1	0.3	0.7	1.9	5.5	15.9	27.7	E 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
V 36	0.1	0.1	0.3	0.6	1.8	5.4	15.5	27.1	M 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
A 37	0.1	0.1	0.3	0.6	1.7	5.2	15.1	26.7	M 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
E 38	0.1	0.1	0.3	0.6	1.7	5.0	14.7	26.2	E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
I 39	0.1	0.1	0.3	0.6	1.6	4.9	14.3	25.6	I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
T 40	0.1	0.1	0.3	0.6	1.6	4.8	13.9	25.0	T 90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.4	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.8	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.5	4.3	12.9	23.3	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.7	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.4	4.1	12.2	22.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.4	3.9	11.8	21.6	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.0	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.4	3.6	10.9	20.1	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.4	3.6	10.6	19.5	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 63 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7									BAND CENTER FREQUENCY, M2							
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.6	5.5	7.8	9.8	51	0.1	0.2	0.3	0.7	1.4	3.5	10.2	19.7
2	0.1	0.3	0.7	1.9	3.7	5.9	8.3	10.4	52	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.2
3	0.1	0.3	0.7	1.9	3.8	6.3	8.9	11.1	53	0.1	0.2	0.3	0.7	1.4	3.3	9.6	17.6
4	0.1	0.2	0.7	1.8	3.9	6.6	9.5	11.8	54	0.1	0.2	0.3	0.7	1.4	3.3	9.3	17.4
5	0.1	0.2	0.7	1.8	4.0	7.0	10.1	12.5	55	0.1	0.2	0.3	0.7	1.4	3.2	9.1	17.0
6	0.1	0.2	0.6	1.7	4.1	7.3	10.8	13.3	56	0.1	0.2	0.3	0.7	1.4	3.2	8.9	16.5
7	0.1	0.2	0.6	1.7	4.1	7.6	11.6	14.2	57	0.1	0.2	0.4	0.7	1.4	3.2	8.7	16.1
8	0.1	0.2	0.6	1.6	4.2	7.9	12.3	15.1	58	0.1	0.2	0.4	0.7	1.5	3.2	8.5	15.6
9	0.1	0.2	0.6	1.6	4.1	8.2	13.1	16.1	59	0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.2
10	0.1	0.2	0.5	1.5	4.1	8.4	13.8	17.1	60	0.1	0.2	0.4	0.7	1.5	3.2	8.2	14.8
11	0.1	0.2	0.5	1.5	4.0	8.5	14.6	18.2	61	0.1	0.2	0.4	0.7	1.5	3.1	8.0	14.5
12	0.1	0.2	0.5	1.4	3.8	8.7	15.4	19.4	62	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.2
13	0.1	0.2	0.5	1.4	3.7	8.8	16.1	20.5	63	0.1	0.2	0.4	0.8	1.5	3.1	7.8	13.9
14	0.1	0.2	0.5	1.3	3.6	9.0	16.7	21.6	64	0.1	0.2	0.4	0.8	1.5	3.2	7.7	13.6
15	0.1	0.1	0.4	1.3	3.5	9.1	17.3	22.8	65	0.1	0.2	0.4	0.8	1.6	3.2	7.6	13.4
16	0.1	0.1	0.4	1.2	3.4	9.1	17.8	24.0	66	0.1	0.2	0.4	0.8	1.6	3.2	7.5	13.2
17	0.1	0.1	0.4	1.2	3.3	9.0	18.3	25.0	67	0.1	0.2	0.4	0.8	1.6	3.3	7.5	12.9
18	0.1	0.1	0.4	1.1	3.2	8.8	18.6	26.0	68	0.1	0.2	0.4	0.8	1.6	3.4	7.4	12.6
19	0.1	0.1	0.4	1.1	3.1	8.5	19.0	26.8	69	0.1	0.2	0.4	0.8	1.7	3.4	7.4	12.4
20	0.1	0.1	0.4	1.1	3.0	8.3	19.3	27.6	70	0.1	0.2	0.4	0.9	1.7	3.4	7.4	12.3
21	0.1	0.1	0.3	1.0	3.0	8.1	19.6	28.3	71	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.2
22	0.1	0.1	0.3	1.0	2.9	7.8	19.8	28.9	72	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.2
23	0.1	0.1	0.3	1.0	2.9	7.7	20.0	29.5	73	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.2
24	0.1	0.1	0.3	0.9	2.7	7.5	20.0	30.0	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.2
25	0.1	0.1	0.3	0.9	2.6	7.3	19.8	30.5	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.1
26	0.1	0.1	0.3	0.8	2.5	7.1	19.4	30.9	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.0
27	0.1	0.1	0.3	0.8	2.4	6.9	18.8	31.2	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.0
28	0.1	0.1	0.3	0.8	2.3	6.7	18.3	31.5	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.0
29	0.1	0.1	0.3	0.8	2.2	6.5	17.9	31.2	79	0.1	0.2	0.4	0.9	1.8	3.8	7.8	12.0
30	0.1	0.1	0.3	0.7	2.2	6.3	17.5	30.8	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.7	2.1	6.1	17.1	30.1	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.4
32	0.1	0.1	0.3	0.7	2.0	6.0	16.8	29.2	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
33	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.6	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
34	0.1	0.1	0.3	0.7	1.9	5.6	16.1	27.9	84	0.1	0.2	0.5	0.9	1.9	4.0	8.3	12.6
35	0.1	0.1	0.3	0.6	1.8	5.3	15.3	26.8	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.8	5.1	14.9	26.4	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
37	0.1	0.1	0.3	0.6	1.7	5.1	14.9	26.4	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.7	4.9	14.5	25.8	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.7	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.5	4.5	13.3	24.1	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.5	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.5	4.2	12.7	22.9	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
44	0.1	0.2	0.3	0.6	1.5	4.1	12.3	22.3	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.4	4.0	12.0	21.8	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
46	0.1	0.2	0.3	0.6	1.4	3.9	11.6	21.2	96	0.1	0.3	0.5	1.1	2.2	4.4	9.3	14.2
47	0.1	0.2	0.3	0.6	1.4	3.8	11.3	20.7	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.5
48	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.5
49	0.1	0.2	0.3	0.6	1.4	3.6	10.8	19.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.4	3.5	10.5	19.2	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 64 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ						
	63	125	250	500	1000	2000	4000	8000	16000	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.6	5.6	7.9	10.0		51	0.1	0.2	0.3	0.7	1.4	3.4	10.0
2	0.1	0.3	0.7	1.9	3.8	6.0	8.5	10.6		52	0.1	0.2	0.3	0.7	1.4	3.4	9.7
3	0.1	0.2	0.7	1.9	3.9	6.4	9.0	11.2		53	0.1	0.2	0.3	0.7	1.4	3.3	9.4
4	0.1	0.2	0.7	1.8	3.9	6.7	9.6	12.0		54	0.1	0.2	0.3	0.7	1.4	3.2	9.2
5	0.1	0.2	0.6	1.7	4.0	7.1	10.3	12.7		55	0.1	0.2	0.3	0.7	1.4	3.2	8.9
6	0.1	0.2	0.6	1.7	4.1	7.4	11.0	13.5		56	0.1	0.2	0.3	0.7	1.4	3.2	8.7
7	0.1	0.2	0.6	1.6	4.1	7.7	11.8	14.4		57	0.1	0.2	0.4	0.7	1.4	3.2	8.5
8	0.1	0.2	0.6	1.6	4.1	8.0	12.5	15.3		58	0.1	0.2	0.4	0.7	1.5	3.2	8.4
9	0.1	0.2	0.6	1.5	4.1	8.2	13.3	16.3		59	0.1	0.2	0.4	0.7	1.5	3.1	8.2
10	0.1	0.2	0.5	1.5	4.0	8.4	14.0	17.4		60	0.1	0.2	0.4	0.7	1.5	3.1	8.0
11	0.1	0.2	0.5	1.4	3.9	8.6	14.8	18.5		61	0.1	0.2	0.4	0.7	1.5	3.1	7.9
12	0.1	0.2	0.5	1.4	3.8	8.7	15.6	19.7		62	0.1	0.2	0.4	0.7	1.5	3.1	7.8
13	0.1	0.2	0.5	1.4	3.7	8.9	16.2	20.8		63	0.1	0.2	0.4	0.7	1.5	3.1	7.7
14	0.1	0.2	0.5	1.3	3.6	9.0	16.9	21.9		64	0.1	0.2	0.4	0.7	1.5	3.1	7.6
15	0.1	0.1	0.4	1.3	3.5	9.0	17.4	23.1		65	0.1	0.2	0.4	0.7	1.5	3.2	7.5
16	0.1	0.1	0.4	1.2	3.4	9.0	17.9	24.2		66	0.1	0.2	0.4	0.7	1.6	3.2	7.5
17	0.1	0.1	0.4	1.2	3.3	8.9	18.3	25.2		67	0.1	0.2	0.4	0.8	1.6	3.3	7.5
18	0.1	0.1	0.4	1.1	3.2	8.7	18.7	26.2		68	0.1	0.2	0.4	0.8	1.6	3.3	7.4
19	0.1	0.1	0.4	1.1	3.1	8.4	19.1	27.0		69	0.1	0.2	0.4	0.8	1.6	3.4	7.4
20	0.1	0.1	0.4	1.0	3.0	8.2	19.4	27.8		70	0.1	0.2	0.4	0.8	1.7	3.4	7.3
21	0.1	0.1	0.3	1.0	2.9	7.9	19.6	28.5		71	0.1	0.2	0.4	0.8	1.7	3.4	7.3
22	0.1	0.1	0.3	1.0	2.8	7.8	19.8	29.0		72	0.1	0.2	0.4	0.8	1.7	3.5	7.3
23	0.1	0.1	0.3	0.9	2.7	7.6	19.9	29.6		73	0.1	0.2	0.4	0.8	1.7	3.5	7.3
24	0.1	0.1	0.3	0.9	2.6	7.4	19.9	30.1		74	0.1	0.2	0.4	0.9	1.7	3.5	7.4
25	0.1	0.1	0.3	0.9	2.5	7.2	19.6	30.5		75	0.1	0.2	0.4	0.9	1.7	3.6	7.5
26	0.1	0.1	0.3	0.8	2.5	7.0	19.1	30.9		76	0.1	0.2	0.4	0.9	1.8	3.6	7.6
27	0.1	0.1	0.3	0.8	2.4	6.8	18.5	31.1		77	0.1	0.2	0.4	0.9	1.8	3.6	7.6
28	0.1	0.1	0.3	0.8	2.3	6.6	18.1	31.2		78	0.1	0.2	0.4	0.9	1.8	3.7	7.7
29	0.1	0.1	0.3	0.7	2.2	6.4	17.7	30.9		79	0.1	0.2	0.4	0.9	1.8	3.7	7.8
30	0.1	0.1	0.3	0.7	2.1	6.2	17.3	30.4		80	0.1	0.2	0.5	0.9	1.8	3.8	7.9
31	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6		81	0.1	0.2	0.5	0.9	1.9	3.8	7.9
32	0.1	0.1	0.3	0.7	2.0	5.9	16.6	28.8		82	0.1	0.2	0.5	0.9	1.9	3.8	8.0
33	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.2		83	0.1	0.2	0.5	0.9	1.9	3.9	8.1
34	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.6		84	0.1	0.2	0.5	0.9	1.9	3.9	8.2
35	0.1	0.1	0.3	0.6	1.8	5.4	15.4	27.0		85	0.1	0.2	0.5	1.0	1.9	4.0	8.3
36	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.5		86	0.1	0.2	0.5	1.0	2.0	4.0	8.3
37	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.0		87	0.1	0.2	0.5	1.0	2.0	4.0	8.4
38	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.5		88	0.1	0.2	0.5	1.0	2.0	4.1	8.5
39	0.1	0.1	0.3	0.6	1.6	4.7	13.9	24.9		89	0.1	0.2	0.5	1.0	2.0	4.1	8.6
40	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.7		90	0.1	0.3	0.5	1.0	2.0	4.2	8.7
41	0.1	0.1	0.3	0.6	1.5	4.3	12.8	23.1		91	0.1	0.3	0.5	1.0	2.1	4.2	8.8
42	0.1	0.1	0.3	0.6	1.5	4.2	12.5	22.6		92	0.1	0.3	0.5	1.0	2.1	4.3	8.9
43	0.1	0.2	0.3	0.6	1.4	4.0	12.1	22.0		93	0.1	0.3	0.5	1.0	2.1	4.3	9.0
44	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4		94	0.1	0.3	0.5	1.1	2.1	4.3	9.0
45	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.9		95	0.1	0.3	0.5	1.1	2.2	4.4	9.1
46	0.1	0.2	0.3	0.6	1.4	3.7	11.1	20.4		96	0.1	0.3	0.5	1.1	2.2	4.4	9.2
47	0.1	0.2	0.3	0.6	1.4	3.6	10.9	19.9		97	0.1	0.3	0.5	1.1	2.2	4.5	9.3
48	0.1	0.2	0.3	0.6	1.4	3.5	10.6	19.4		98	0.1	0.3	0.5	1.1	2.2	4.5	9.4
49	0.1	0.2	0.3	0.7	1.4	3.5	10.3	18.9		99	0.1	0.3	0.6	1.1	2.2	4.6	9.5
50	0.1	0.2	0.3	0.7	1.4	3.5	10.3	18.9		100	0.1	0.3	0.6	1.1	2.3	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 65 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.7	5.7	8.0	10.1	51	0.1	0.2	0.3	0.7	1.4	3.4	9.8
2	0.1	0.3	0.7	1.9	3.8	6.1	8.6	10.7	52	0.1	0.2	0.3	0.7	1.4	3.3	9.5
3	0.1	0.2	0.7	1.8	3.9	6.5	9.2	11.4	53	0.1	0.2	0.3	0.7	1.4	3.3	9.3
4	0.1	0.2	0.7	1.8	4.0	6.8	9.8	12.2	54	0.1	0.2	0.3	0.7	1.4	3.2	9.0
5	0.1	0.2	0.6	1.7	4.0	7.2	10.5	12.9	55	0.1	0.2	0.3	0.7	1.4	3.2	8.8
6	0.1	0.2	0.6	1.7	4.1	7.5	11.2	13.8	56	0.1	0.2	0.3	0.7	1.4	3.2	8.6
7	0.1	0.2	0.6	1.6	4.1	7.9	12.0	14.7	57	0.1	0.2	0.4	0.7	1.4	3.2	8.4
8	0.1	0.2	0.6	1.6	4.1	8.0	12.7	15.6	58	0.1	0.2	0.4	0.7	1.5	3.1	8.2
9	0.1	0.2	0.5	1.5	4.1	8.2	13.5	16.6	59	0.1	0.2	0.4	0.7	1.5	3.1	8.1
10	0.1	0.2	0.5	1.5	4.0	8.4	14.2	17.7	60	0.1	0.2	0.4	0.7	1.5	3.1	7.9
11	0.1	0.2	0.5	1.4	3.8	8.6	15.0	18.9	61	0.1	0.2	0.4	0.7	1.5	3.1	7.8
12	0.1	0.2	0.5	1.4	3.7	8.7	15.7	20.0	62	0.1	0.2	0.4	0.7	1.5	3.1	7.7
13	0.1	0.2	0.5	1.3	3.6	8.9	16.4	21.1	63	0.1	0.2	0.4	0.8	1.5	3.1	7.6
14	0.1	0.2	0.4	1.3	3.5	9.0	17.0	22.2	64	0.1	0.2	0.4	0.8	1.5	3.2	7.5
15	0.1	0.2	0.4	1.2	3.4	9.0	17.5	23.4	65	0.1	0.2	0.4	0.8	1.6	3.2	7.5
16	0.1	0.1	0.4	1.2	3.4	9.0	18.0	24.5	66	0.1	0.2	0.4	0.8	1.6	3.2	7.5
17	0.1	0.1	0.4	1.2	3.3	8.8	18.4	25.5	67	0.1	0.2	0.4	0.8	1.6	3.3	7.4
18	0.1	0.1	0.4	1.1	3.2	8.5	18.8	26.4	68	0.1	0.2	0.4	0.8	1.6	3.4	7.3
19	0.1	0.1	0.4	1.1	3.1	8.3	19.1	27.2	69	0.1	0.2	0.4	0.8	1.7	3.4	7.3
20	0.1	0.1	0.4	1.1	3.0	8.1	19.4	27.9	70	0.1	0.2	0.4	0.8	1.7	3.4	7.3
21	0.1	0.1	0.3	1.0	2.9	7.8	19.6	28.6	71	0.1	0.2	0.4	0.8	1.7	3.4	7.3
22	0.1	0.1	0.3	1.0	2.8	7.7	19.8	29.1	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3
23	0.1	0.1	0.3	0.9	2.7	7.5	19.7	30.7	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3
24	0.1	0.1	0.3	0.9	2.6	7.3	19.7	30.7	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4
25	0.1	0.1	0.3	0.8	2.5	7.1	19.4	30.5	75	0.1	0.2	0.4	0.9	1.7	3.5	7.4
26	0.1	0.1	0.3	0.8	2.4	6.9	18.8	30.9	76	0.1	0.2	0.4	0.9	1.8	3.6	7.5
27	0.1	0.1	0.3	0.8	2.3	6.7	18.3	31.1	77	0.1	0.2	0.4	0.9	1.8	3.6	7.5
28	0.1	0.1	0.3	0.8	2.2	6.5	17.9	31.0	78	0.1	0.2	0.4	0.9	1.8	3.7	7.6
29	0.1	0.1	0.3	0.7	2.2	6.3	17.5	30.7	79	0.1	0.2	0.4	0.9	1.8	3.7	7.7
30	0.1	0.1	0.3	0.7	2.1	6.1	17.1	30.0	80	0.1	0.2	0.5	0.9	1.9	3.8	7.8
31	0.1	0.1	0.3	0.7	2.0	6.0	16.7	29.1	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9
32	0.1	0.1	0.3	0.7	2.0	5.8	16.4	29.5	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0
33	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1
34	0.1	0.1	0.3	0.6	1.8	5.4	15.6	27.3	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2
35	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.7	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3
36	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.2	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4
37	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.7	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4
38	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5
39	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.6	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6
40	0.1	0.1	0.3	0.6	1.5	4.5	13.3	24.0	90	0.1	0.3	0.5	1.0	2.1	4.2	8.7
41	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.4	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8
42	0.1	0.1	0.3	0.6	1.5	4.2	12.6	22.8	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9
43	0.1	0.2	0.3	0.6	1.4	4.1	12.3	22.2	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0
44	0.1	0.2	0.3	0.6	1.4	4.0	11.9	21.7	94	0.1	0.3	0.5	1.1	2.1	4.3	9.1
45	0.1	0.2	0.3	0.6	1.4	3.9	11.6	21.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2
46	0.1	0.2	0.3	0.6	1.4	3.8	11.2	20.6	96	0.1	0.3	0.5	1.1	2.2	4.4	9.3
47	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.1	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4
48	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.6	98	0.1	0.3	0.5	1.1	2.2	4.5	9.5
49	0.1	0.2	0.3	0.7	1.4	3.5	10.4	19.1	99	0.1	0.3	0.6	1.1	2.2	4.6	9.6
50	0.1	0.2	0.3	0.7	1.4	3.4	10.1	19.6	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB REF 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FREQ 66 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, MZ					RAND CENTER FREQUENCY, MZ					RAND CENTER FREQUENCY, MZ					RAND CENTER FREQUENCY, MZ										
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.7	5.8	8.2	10.3		51	0.1	0.2	0.7	1.4	3.3	9.6	17.8		51	0.1	0.2	0.7	1.4	3.3	9.6	17.8
2	0.1	0.2	0.7	1.9	3.8	6.2	8.7	10.9		52	0.1	0.2	0.3	0.7	1.4	9.4	17.0		52	0.1	0.2	0.3	0.7	1.4	9.4	17.0
3	0.1	0.2	0.7	1.8	3.9	6.5	9.3	11.6		53	0.1	0.2	0.3	0.7	1.4	9.1	16.6		53	0.1	0.2	0.3	0.7	1.4	9.1	16.6
4	0.1	0.2	0.7	1.8	4.0	6.9	10.0	12.3		54	0.1	0.2	0.3	0.7	1.4	8.9	16.4		54	0.1	0.2	0.3	0.7	1.4	8.9	16.4
5	0.1	0.2	0.6	1.7	4.0	7.2	10.7	13.1		55	0.1	0.2	0.3	0.7	1.4	8.7	16.1		55	0.1	0.2	0.3	0.7	1.4	8.7	16.1
6	0.1	0.2	0.6	1.6	4.1	7.6	11.4	14.0		56	0.1	0.2	0.3	0.7	1.4	8.5	15.7		56	0.1	0.2	0.3	0.7	1.4	8.5	15.7
7	0.1	0.2	0.6	1.6	4.1	7.8	12.2	14.9		57	0.1	0.2	0.4	0.7	1.4	8.3	15.3		57	0.1	0.2	0.4	0.7	1.4	8.3	15.3
8	0.1	0.2	0.6	1.6	4.1	8.1	12.9	15.9		58	0.1	0.2	0.4	0.7	1.5	8.1	14.9		58	0.1	0.2	0.4	0.7	1.5	8.1	14.9
9	0.1	0.2	0.5	1.5	4.1	8.3	13.7	16.9		59	0.1	0.2	0.4	0.7	1.5	8.0	14.5		59	0.1	0.2	0.4	0.7	1.5	8.0	14.5
10	0.1	0.2	0.5	1.5	3.9	8.4	14.5	18.0		60	0.1	0.2	0.4	0.7	1.5	7.9	14.2		60	0.1	0.2	0.4	0.7	1.5	7.9	14.2
11	0.1	0.2	0.5	1.4	3.8	8.6	15.2	19.2		61	0.1	0.2	0.4	0.7	1.5	7.7	13.9		61	0.1	0.2	0.4	0.7	1.5	7.7	13.9
12	0.1	0.2	0.5	1.4	3.7	8.7	15.9	20.2		62	0.1	0.2	0.4	0.7	1.5	7.6	13.6		62	0.1	0.2	0.4	0.7	1.5	7.6	13.6
13	0.1	0.2	0.5	1.3	3.6	8.9	16.5	21.4		63	0.1	0.2	0.4	0.8	1.5	7.5	13.3		63	0.1	0.2	0.4	0.8	1.5	7.5	13.3
14	0.1	0.2	0.5	1.3	3.5	9.0	17.1	22.6		64	0.1	0.2	0.4	0.8	1.5	7.4	12.9		64	0.1	0.2	0.4	0.8	1.5	7.4	12.9
15	0.1	0.1	0.4	1.2	3.4	9.0	17.6	23.7		65	0.1	0.2	0.4	0.8	1.6	7.4	12.7		65	0.1	0.2	0.4	0.8	1.6	7.4	12.7
16	0.1	0.1	0.4	1.2	3.3	8.9	18.1	24.7		66	0.1	0.2	0.4	0.8	1.6	7.4	12.5		66	0.1	0.2	0.4	0.8	1.6	7.4	12.5
17	0.1	0.1	0.4	1.1	3.2	8.7	18.4	25.7		67	0.1	0.2	0.4	0.8	1.6	7.3	12.3		67	0.1	0.2	0.4	0.8	1.6	7.3	12.3
18	0.1	0.1	0.4	1.1	3.1	8.4	18.8	26.6		68	0.1	0.2	0.4	0.8	1.6	7.3	12.2		68	0.1	0.2	0.4	0.8	1.6	7.3	12.2
19	0.1	0.1	0.4	1.0	3.0	8.2	19.1	27.4		69	0.1	0.2	0.4	0.8	1.7	7.3	12.1		69	0.1	0.2	0.4	0.8	1.7	7.3	12.1
20	0.1	0.1	0.3	1.0	2.9	8.0	19.4	28.1		70	0.1	0.2	0.4	0.8	1.7	7.3	12.0		70	0.1	0.2	0.4	0.8	1.7	7.3	12.0
21	0.1	0.1	0.3	1.0	2.8	7.8	19.6	28.6		71	0.1	0.2	0.4	0.8	1.7	7.3	11.9		71	0.1	0.2	0.4	0.8	1.7	7.3	11.9
22	0.1	0.1	0.3	0.9	2.7	7.6	19.8	29.2		72	0.1	0.2	0.4	0.8	1.7	7.3	11.9		72	0.1	0.2	0.4	0.8	1.7	7.3	11.9
23	0.1	0.1	0.3	0.9	2.6	7.4	19.7	29.7		73	0.1	0.2	0.4	0.9	1.7	7.4	11.9		73	0.1	0.2	0.4	0.9	1.7	7.4	11.9
24	0.1	0.1	0.3	0.9	2.5	7.2	19.5	30.2		74	0.1	0.2	0.4	0.9	1.7	7.4	11.9		74	0.1	0.2	0.4	0.9	1.7	7.4	11.9
25	0.1	0.1	0.3	0.8	2.5	7.0	19.1	30.6		75	0.1	0.2	0.4	0.9	1.7	7.5	11.9		75	0.1	0.2	0.4	0.9	1.7	7.5	11.9
26	0.1	0.1	0.3	0.8	2.4	6.8	18.5	30.9		76	0.1	0.2	0.4	0.9	1.8	7.6	11.9		76	0.1	0.2	0.4	0.9	1.8	7.6	11.9
27	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.9		77	0.1	0.2	0.4	0.9	1.8	7.6	11.9		77	0.1	0.2	0.4	0.9	1.8	7.6	11.9
28	0.1	0.1	0.3	0.7	2.2	6.4	17.6	30.8		78	0.1	0.2	0.4	0.9	1.8	7.7	11.9		78	0.1	0.2	0.4	0.9	1.8	7.7	11.9
29	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.3		79	0.1	0.2	0.4	0.9	1.8	7.8	11.9		79	0.1	0.2	0.4	0.9	1.8	7.8	11.9
30	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6		80	0.1	0.2	0.5	0.9	1.8	7.9	12.0		80	0.1	0.2	0.5	0.9	1.8	7.9	12.0
31	0.1	0.1	0.3	0.7	2.0	5.9	16.6	28.8		81	0.1	0.2	0.5	0.9	1.9	7.9	12.2		81	0.1	0.2	0.5	0.9	1.9	7.9	12.2
32	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1		82	0.1	0.2	0.5	0.9	1.9	8.0	12.4		82	0.1	0.2	0.5	0.9	1.9	8.0	12.4
33	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.5		83	0.1	0.2	0.5	0.9	1.9	8.1	12.4		83	0.1	0.2	0.5	0.9	1.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.9		84	0.1	0.2	0.5	0.9	1.9	8.2	12.5		84	0.1	0.2	0.5	0.9	1.9	8.2	12.5
35	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.4		85	0.1	0.2	0.5	1.0	1.9	8.3	12.6		85	0.1	0.2	0.5	1.0	1.9	8.3	12.6
36	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.0		86	0.1	0.2	0.5	1.0	2.0	8.4	12.9		86	0.1	0.2	0.5	1.0	2.0	8.4	12.9
37	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.4		87	0.1	0.2	0.5	1.0	2.0	8.4	12.8		87	0.1	0.2	0.5	1.0	2.0	8.4	12.8
38	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.8		88	0.1	0.2	0.5	1.0	2.0	8.5	13.0		88	0.1	0.2	0.5	1.0	2.0	8.5	13.0
39	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2		89	0.1	0.2	0.5	1.0	2.0	8.6	13.1		89	0.1	0.2	0.5	1.0	2.0	8.6	13.1
40	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6		90	0.1	0.3	0.5	1.0	2.1	8.7	13.3		90	0.1	0.3	0.5	1.0	2.1	8.7	13.3
41	0.1	0.1	0.3	0.6	1.5	4.3	12.8	23.1		91	0.1	0.3	0.5	1.0	2.1	8.8	13.4		91	0.1	0.3	0.5	1.0	2.1	8.8	13.4
42	0.1	0.1	0.3	0.6	1.5	4.2	12.4	22.5		92	0.1	0.3	0.5	1.0	2.1	8.9	13.5		92	0.1	0.3	0.5	1.0	2.1	8.9	13.5
43	0.1	0.2	0.3	0.6	1.4	4.0	12.1	21.9		93	0.1	0.3	0.5	1.0	2.1	9.0	13.7		93	0.1	0.3	0.5	1.0	2.1	9.0	13.7
44	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4		94	0.1	0.3	0.5	1.1	2.1	9.0	13.8		94	0.1	0.3	0.5	1.1	2.1	9.0	13.8
45	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.8		95	0.1	0.3	0.5	1.1	2.2	9.1	13.9		95	0.1	0.3	0.5	1.1	2.2	9.1	13.9
46	0.1	0.2	0.3	0.6	1.4	3.7	11.1	20.3		96	0.1	0.3	0.5	1.1	2.2	9.2	14.1		96	0.1	0.3	0.5	1.1	2.2	9.2	14.1
47	0.1	0.2	0.3	0.6	1.4	3.6	10.8	19.8		97	0.1	0.3	0.5	1.1	2.2	9.3	14.2		97	0.1	0.3	0.5	1.1	2.2	9.3	14.2
48	0.1	0.2	0.3	0.6	1.4	3.5	10.5	19.3		98	0.1	0.3	0.5	1.1	2.2	9.4	14.4		98	0.1	0.3	0.5	1.1	2.2	9.4	14.4
49	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.8		99	0.1	0.3	0.6	1.1	2.2	9.5	14.5		99	0.1	0.3	0.6	1.1	2.2	9.5	14.5
50	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.3		100	0.1	0.3	0.6	1.1	2.3	9.6	14.6		100	0.1	0.3	0.6	1.1	2.3	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FC° 67 PERCENT RELATIVE HUMIDITY

		RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ				
		63	125	250	500	1000	2000	4000	8000	16000	32000
1	T	0.1	0.3	0.7	1.9	3.7	5.9	8.3	10.4	12.6	14.6
2	E	0.1	0.2	0.7	1.9	3.8	6.3	8.9	11.1	13.3	15.4
3	M	0.1	0.2	0.7	1.8	3.9	6.6	9.5	11.8	14.0	16.2
4	P	0.1	0.2	0.6	1.7	4.0	7.0	10.1	12.5	14.7	16.9
5	R	0.1	0.2	0.6	1.7	4.0	7.3	10.8	13.3	15.5	17.7
6	E	0.1	0.2	0.6	1.6	4.1	7.6	11.6	14.2	16.4	18.6
7	T	0.1	0.2	0.6	1.6	4.1	7.9	12.4	15.1	17.3	19.5
8	E	0.1	0.2	0.5	1.5	4.1	8.1	13.1	16.1	18.3	20.5
9	M	0.1	0.2	0.5	1.5	4.0	8.3	13.9	17.2	19.4	21.6
10	P	0.1	0.2	0.5	1.4	3.9	8.5	14.7	18.3	20.5	22.7
11	R	0.1	0.2	0.5	1.4	3.7	8.6	15.4	19.4	21.6	23.8
12	E	0.1	0.2	0.5	1.3	3.6	8.8	16.1	20.5	22.7	24.8
13	T	0.1	0.2	0.4	1.3	3.5	8.9	17.2	21.7	23.8	25.9
14	E	0.1	0.1	0.4	1.2	3.4	8.9	17.7	22.9	25.0	27.0
15	M	0.1	0.1	0.4	1.2	3.4	8.9	17.7	22.9	25.0	27.0
16	P	0.1	0.1	0.4	1.2	3.4	8.9	17.7	22.9	25.0	27.0
17	R	0.1	0.1	0.4	1.2	3.4	8.9	17.7	22.9	25.0	27.0
18	E	0.1	0.1	0.4	1.1	3.2	8.6	18.5	25.9	27.0	28.1
19	T	0.1	0.1	0.4	1.1	3.1	8.3	18.9	26.8	27.0	28.1
20	E	0.1	0.1	0.3	1.0	3.0	8.1	19.2	27.5	27.0	28.1
21	M	0.1	0.1	0.3	1.0	2.9	7.9	19.4	28.2	27.0	28.1
22	P	0.1	0.1	0.3	1.0	2.8	7.7	19.6	28.8	27.0	28.1
23	R	0.1	0.1	0.3	0.9	2.7	7.5	19.7	29.3	27.0	28.1
24	E	0.1	0.1	0.3	0.9	2.6	7.3	19.6	29.8	27.0	28.1
25	T	0.1	0.1	0.3	0.9	2.5	7.1	19.4	30.2	27.0	28.1
26	E	0.1	0.1	0.3	0.8	2.4	6.9	18.9	30.8	27.0	28.1
27	M	0.1	0.1	0.3	0.8	2.3	6.7	18.3	30.8	27.0	28.1
28	P	0.1	0.1	0.3	0.8	2.3	6.5	17.9	30.8	27.0	28.1
29	R	0.1	0.1	0.3	0.7	2.2	6.3	17.4	30.6	27.0	28.1
30	E	0.1	0.1	0.3	0.7	2.1	6.1	17.0	30.0	27.0	28.1
31	T	0.1	0.1	0.3	0.7	2.0	6.0	16.7	29.1	27.0	28.1
32	E	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.4	27.0	28.1
33	M	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8	27.0	28.1
34	P	0.1	0.1	0.3	0.6	1.8	5.4	15.6	27.2	27.0	28.1
35	R	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6	27.0	28.1
36	E	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.1	27.0	28.1
37	T	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.6	27.0	28.1
38	E	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.1	27.0	28.1
39	M	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.5	27.0	28.1
40	P	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.9	27.0	28.1
41	R	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3	27.0	28.1
42	E	0.1	0.1	0.4	0.6	1.5	4.2	12.6	22.7	27.0	28.1
43	T	0.1	0.1	0.4	0.6	1.4	4.1	12.2	22.2	27.0	28.1
44	E	0.1	0.2	0.3	0.6	1.4	4.0	11.9	21.6	27.0	28.1
45	M	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.1	27.0	28.1
46	P	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5	27.0	28.1
47	R	0.1	0.2	0.3	0.6	1.4	3.6	10.9	20.0	27.0	28.1
48	E	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.6	27.0	28.1
49	T	0.1	0.2	0.3	0.6	1.4	3.5	10.4	19.0	27.0	28.1
50	E	0.1	0.2	0.3	0.7	1.4	3.4	10.1	18.5	27.0	28.1
		0.1	0.2	0.3	0.7	1.4	3.3	9.8	18.0	27.0	28.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 60 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, Hz					BAND CENTER FREQUENCY, Hz					BAND CENTER FREQUENCY, Hz									
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.1	0.3	0.7	1.4	3.7	6.0	8.4	10.6	12.6	14.6	51	0.1	0.2	0.3	0.7	1.3	3.3	9.3	17.3	31.3
2	0.1	0.2	0.7	1.4	3.4	5.7	8.0	11.2	12.0	13.9	52	0.1	0.2	0.3	0.7	1.4	3.2	9.1	16.9	30.9
3	0.1	0.2	0.7	1.4	3.9	6.7	9.6	12.0	12.7	14.6	53	0.1	0.2	0.3	0.7	1.4	3.2	8.8	16.5	30.5
4	0.1	0.2	0.6	1.7	4.0	7.1	10.3	12.7	13.4	15.1	54	0.1	0.2	0.3	0.7	1.4	3.2	8.6	16.1	30.1
5	0.1	0.2	0.6	1.7	4.0	7.4	11.0	13.4	14.4	16.1	55	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.6	29.6
6	0.1	0.2	0.6	1.6	4.1	7.7	11.6	14.4	15.4	17.2	56	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.2	29.2
7	0.1	0.2	0.5	1.6	4.1	7.9	12.5	15.4	16.4	18.2	57	0.1	0.2	0.4	0.7	1.4	3.1	8.1	14.8	28.8
8	0.1	0.2	0.5	1.5	4.1	8.1	13.3	16.4	17.4	19.2	58	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.4	28.4
9	0.1	0.2	0.5	1.5	4.0	8.3	14.1	17.5	18.6	20.4	59	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.1	28.0
10	0.1	0.2	0.5	1.4	3.8	8.5	14.9	18.4	19.5	21.3	60	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.8	27.6
11	0.1	0.2	0.5	1.4	3.7	8.6	15.5	19.7	20.6	22.1	61	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.5	27.2
12	0.1	0.2	0.5	1.3	3.6	8.8	16.2	20.6	21.6	23.1	62	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.2	26.8
13	0.1	0.1	0.4	1.3	3.5	8.9	16.8	21.0	22.0	23.6	63	0.1	0.2	0.4	0.8	1.5	3.1	7.4	13.0	26.4
14	0.1	0.1	0.4	1.2	3.4	9.0	17.3	21.3	22.2	24.1	64	0.1	0.2	0.4	0.8	1.5	3.2	7.4	12.8	26.0
15	0.1	0.1	0.4	1.2	3.3	9.1	17.8	21.6	22.4	24.2	65	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.6	25.6
16	0.1	0.1	0.4	1.1	3.2	9.2	18.2	21.9	22.5	24.3	66	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.4	25.2
17	0.1	0.1	0.4	1.1	3.1	9.3	18.6	22.1	22.6	24.4	67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.2	24.8
18	0.1	0.1	0.4	1.1	3.0	9.4	18.9	22.3	22.7	24.5	68	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.1	24.4
19	0.1	0.1	0.3	1.0	2.9	9.5	19.2	22.5	22.8	24.6	69	0.1	0.2	0.4	0.8	1.6	3.4	7.2	12.0	24.0
20	0.1	0.1	0.3	1.0	2.8	9.6	19.4	22.7	22.9	24.7	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0	24.0
21	0.1	0.1	0.3	0.9	2.7	9.7	19.6	22.9	23.0	24.8	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9	23.6
22	0.1	0.1	0.3	0.9	2.6	9.8	19.8	23.1	23.2	24.9	72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.9	23.2
23	0.1	0.1	0.3	0.9	2.6	9.9	19.9	23.2	23.3	25.0	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.8	22.8
24	0.1	0.1	0.3	0.8	2.5	1.0	19.1	30.3	23.4	25.1	74	0.1	0.2	0.4	0.8	1.7	3.5	7.4	11.8	22.4
25	0.1	0.1	0.3	0.8	2.4	6.8	18.6	30.6	23.5	25.2	75	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.8	22.0
26	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.7	23.6	25.3	76	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.7	21.6
27	0.1	0.1	0.3	0.8	2.2	6.4	17.6	30.6	23.7	25.4	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7	21.2
28	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.3	23.8	25.5	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	20.8
29	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6	23.9	25.6	79	0.1	0.2	0.4	0.9	1.8	3.8	7.9	11.9	20.4
30	0.1	0.1	0.3	0.7	2.0	5.9	16.5	28.8	24.0	25.7	80	0.1	0.2	0.5	0.9	1.8	3.8	8.0	12.0	20.0
31	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1	24.1	25.8	81	0.1	0.2	0.5	0.9	1.9	3.8	8.1	12.1	19.6
32	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.5	24.2	25.9	82	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.2	19.2
33	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.9	24.3	26.0	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.3	18.8
34	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.3	24.4	26.1	84	0.1	0.2	0.5	0.9	1.9	4.0	8.3	12.4	18.4
35	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.9	24.5	26.2	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.4	18.0
36	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3	24.6	26.3	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.5	17.6
37	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.8	24.7	26.4	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.5	17.2
38	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.2	24.8	26.5	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0	16.8
39	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6	24.9	26.6	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1	16.4
40	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0	25.0	26.7	90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3	16.0
41	0.1	0.1	0.3	0.6	1.5	4.2	12.4	22.4	25.1	26.8	91	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4	15.6
42	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.9	25.2	26.9	92	0.1	0.2	0.5	1.0	2.1	4.3	8.9	13.5	15.2
43	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.3	25.3	27.0	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7	14.8
44	0.1	0.1	0.3	0.6	1.4	3.8	11.3	20.8	25.4	27.1	94	0.1	0.2	0.5	1.1	2.1	4.3	9.0	13.8	14.4
45	0.1	0.1	0.3	0.6	1.4	3.7	11.0	20.2	25.5	27.2	95	0.1	0.2	0.5	1.1	2.2	4.4	9.1	13.9	14.0
46	0.1	0.1	0.3	0.6	1.4	3.6	10.8	19.6	25.6	27.3	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1	13.6
47	0.1	0.1	0.3	0.6	1.4	3.5	10.5	19.3	25.7	27.4	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.2	13.2
48	0.1	0.1	0.3	0.6	1.4	3.4	10.2	18.7	25.8	27.5	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.4	12.8
49	0.1	0.1	0.3	0.7	1.3	3.3	9.9	18.2	25.9	27.6	99	0.1	0.2	0.6	1.1	2.2	4.6	9.5	14.5	12.4
50	0.1	0.1	0.3	0.7	1.3	3.3	9.6	17.7	26.0	27.7	100	0.1	0.2	0.6	1.1	2.3	4.6	9.6	14.6	12.0

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NCISE AS A FUNCTION OF TEMPERATURE FOR 69 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000					
1	0.1	0.2	0.7	1.9	3.7	6.1	8.6	10.7	51	0.1	0.2	0.3	0.7	1.3	3.2	9.2	17.1
2	0.1	0.2	0.7	1.8	3.6	6.4	9.2	11.4	52	0.1	0.2	0.3	0.7	1.4	3.2	8.9	16.7
3	0.1	0.2	0.6	1.7	3.9	6.8	9.8	12.1	53	0.1	0.2	0.3	0.7	1.4	3.1	8.7	16.3
4	0.1	0.2	0.6	1.7	4.0	7.1	10.5	12.9	54	0.1	0.2	0.3	0.7	1.4	3.1	8.5	15.8
5	0.1	0.2	0.6	1.6	4.0	7.4	11.2	13.8	55	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.4
6	0.1	0.2	0.6	1.6	4.1	7.7	12.0	14.7	56	0.1	0.2	0.3	0.7	1.4	3.1	8.1	15.0
7	0.1	0.2	0.6	1.5	4.1	8.0	12.7	15.6	57	0.1	0.2	0.4	0.7	1.4	3.1	8.0	14.6
8	0.1	0.2	0.5	1.5	4.0	8.2	13.5	16.6	58	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.2
9	0.1	0.2	0.5	1.4	3.9	8.4	14.2	17.7	59	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.9
10	0.1	0.2	0.5	1.4	3.8	8.5	15.0	18.9	60	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.6
11	0.1	0.2	0.5	1.3	3.7	8.7	15.7	20.0	61	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.3
12	0.1	0.2	0.4	1.3	3.6	8.8	16.3	21.1	62	0.1	0.2	0.4	0.7	1.5	3.1	7.4	13.1
13	0.1	0.1	0.4	1.3	3.5	8.9	16.9	22.1	63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.8
14	0.1	0.1	0.4	1.2	3.4	8.9	17.4	23.4	64	0.1	0.2	0.4	0.8	1.5	3.2	7.3	12.6
15	0.1	0.1	0.4	1.2	3.3	8.8	17.9	24.5	65	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.5
16	0.1	0.1	0.4	1.1	3.2	8.6	18.2	25.4	66	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.3
17	0.1	0.1	0.4	1.1	3.1	8.3	18.6	26.3	67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.0
18	0.1	0.1	0.4	1.0	3.0	8.1	18.9	27.1	68	0.1	0.2	0.4	0.8	1.6	3.4	7.2	11.9
19	0.1	0.1	0.3	1.0	2.9	7.9	19.2	27.8	69	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
20	0.1	0.1	0.3	1.0	2.8	7.7	19.4	28.4	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
21	0.1	0.1	0.3	0.9	2.7	7.5	19.6	28.9	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
22	0.1	0.1	0.3	0.9	2.6	7.3	19.5	29.4	72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.8
23	0.1	0.1	0.3	0.9	2.5	7.1	19.3	29.9	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.7
24	0.1	0.1	0.3	0.8	2.4	6.9	18.9	30.2	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.7
25	0.1	0.1	0.3	0.8	2.3	6.7	18.3	30.5	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.7
26	0.1	0.1	0.3	0.8	2.3	6.5	17.9	30.6	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
27	0.1	0.1	0.3	0.7	2.2	6.3	17.4	30.4	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.7	2.1	6.2	17.0	30.0	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.7	2.0	6.0	16.7	29.2	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.4	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
31	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	0.1	0.1	0.3	0.6	1.8	5.3	15.6	27.1	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
33	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.1	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.6	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.0	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.4	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.9	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.5	4.2	12.5	22.7	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.0	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
44	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.4	3.6	10.9	20.0	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.4	3.5	10.6	19.5	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.3	3.4	10.3	19.0	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.4	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.3	3.3	9.7	17.9	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	3.3	9.5	17.5	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 70 PERCENT RELATIVE HUMIDITY

	HAND CENTER FREQUENCY, HZ					HAND CENTER FREQUENCY, HZ											
	63	125	250	500	1000	2000	4000	8000									
1	0.1	0.2	0.7	1.8	3.8	6.1	8.7	10.9	51	0.1	0.2	0.3	0.7	1.3	3.2	9.0	16.9
2	0.1	0.2	0.7	1.8	3.8	6.5	9.3	11.6	52	0.1	0.2	0.3	0.7	1.4	3.1	8.6	16.4
3	0.1	0.2	0.6	1.7	3.9	6.9	10.0	12.3	53	0.1	0.2	0.3	0.7	1.4	3.1	8.6	16.0
4	0.1	0.2	0.6	1.7	4.0	7.2	10.7	13.1	54	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.6
5	0.1	0.2	0.6	1.6	4.0	7.5	11.4	14.0	55	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.1
6	0.1	0.2	0.6	1.6	4.1	7.8	12.2	14.9	56	0.1	0.2	0.3	0.7	1.4	3.1	8.0	14.7
7	0.1	0.2	0.5	1.5	4.0	8.0	12.9	15.9	57	0.1	0.2	0.4	0.7	1.4	3.1	7.9	14.4
8	0.1	0.2	0.5	1.5	4.0	8.2	13.6	16.9	58	0.1	0.2	0.4	0.7	1.5	3.0	7.8	14.0
9	0.1	0.2	0.5	1.4	3.9	8.4	14.4	18.0	59	0.1	0.2	0.4	0.7	1.5	3.0	7.6	13.7
10	0.1	0.2	0.5	1.4	3.7	9.5	15.2	19.2	60	0.1	0.2	0.4	0.7	1.5	3.0	7.5	13.4
11	0.1	0.2	0.5	1.3	3.6	8.7	15.8	20.2	61	0.1	0.2	0.4	0.7	1.5	3.1	7.4	13.2
12	0.1	0.2	0.4	1.3	3.5	8.8	16.5	21.4	62	0.1	0.2	0.4	0.7	1.5	3.1	7.3	12.9
13	0.1	0.1	0.4	1.2	3.4	8.8	17.0	22.6	63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.7
14	0.1	0.1	0.4	1.2	3.3	8.8	17.5	23.7	64	0.1	0.2	0.4	0.8	1.5	3.2	7.3	12.5
15	0.1	0.1	0.4	1.1	3.2	8.7	17.9	24.7	65	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.3
16	0.1	0.1	0.4	1.1	3.1	8.5	18.3	25.6	66	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.2
17	0.1	0.1	0.4	1.1	3.0	8.2	18.7	26.5	67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.0
18	0.1	0.1	0.3	1.0	2.9	8.0	19.0	27.2	68	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.9
19	0.1	0.1	0.3	1.0	2.8	7.8	19.2	27.9	69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.9
20	0.1	0.1	0.3	0.9	2.7	7.6	19.4	28.5	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.8
21	0.1	0.1	0.3	0.9	2.7	7.4	19.5	29.0	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.8
22	0.1	0.1	0.3	0.9	2.6	7.2	19.4	29.5	72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.7
23	0.1	0.1	0.3	0.8	2.5	7.0	19.1	29.9	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.7
24	0.1	0.1	0.3	0.8	2.4	6.8	18.6	30.3	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.6
25	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.5	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.6
26	0.1	0.1	0.3	0.8	2.2	6.5	17.6	30.5	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.4
27	0.1	0.1	0.3	0.7	2.2	6.3	17.2	30.2	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.6	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.7	2.0	5.9	16.5	28.8	79	0.1	0.2	0.5	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.4	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.2
32	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.8	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
33	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.3	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.8	84	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
35	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3	85	0.1	0.2	0.5	0.9	1.9	4.0	8.2	12.5
36	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.7	86	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
37	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.1	87	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
38	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6	88	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
39	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0	89	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
40	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4	90	0.1	0.3	0.5	1.0	2.0	4.1	8.6	13.1
41	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.8	91	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
42	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.3	92	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
43	0.1	0.1	0.3	0.6	1.4	3.8	11.3	20.7	93	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
44	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2	94	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
45	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.7	95	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
46	0.1	0.2	0.3	0.6	1.3	3.5	10.5	19.2	96	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
47	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7	97	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
48	0.1	0.2	0.3	0.6	1.3	3.4	9.9	18.1	98	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
49	0.1	0.2	0.3	0.7	1.3	3.3	9.6	17.7	99	0.1	0.3	0.6	1.1	2.2	4.5	9.4	14.4
50	0.1	0.2	0.3	0.7	1.3	3.2	9.3	17.2	100	0.1	0.3	0.6	1.1	2.3	4.6	9.5	14.5
							9.3	17.2								9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 71 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ										
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000					
1	0.1	0.2	0.7	1.8	3.8	6.2	8.8	11.0	51	0.1	0.2	0.3	0.7	1.3	3.1	8.9	16.6
2	0.1	0.2	0.7	1.8	3.9	6.6	9.5	11.7	52	0.1	0.2	0.3	0.7	1.4	3.1	8.7	16.2
3	0.1	0.2	0.6	1.7	3.9	7.0	10.1	12.5	53	0.1	0.2	0.3	0.7	1.4	3.1	8.5	15.8
4	0.1	0.2	0.6	1.6	4.0	7.3	10.8	13.3	54	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.3
5	0.1	0.2	0.6	1.6	4.0	7.6	11.6	14.2	55	0.1	0.2	0.3	0.7	1.4	3.1	8.1	14.9
6	0.1	0.2	0.6	1.6	4.1	7.8	12.3	15.1	56	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.5
7	0.1	0.2	0.5	1.5	4.0	8.0	13.1	16.1	57	0.1	0.2	0.4	0.7	1.4	3.0	7.8	14.2
8	0.1	0.2	0.5	1.5	3.9	8.2	13.8	17.2	58	0.1	0.2	0.4	0.7	1.5	3.0	7.7	13.9
9	0.1	0.2	0.5	1.4	3.8	8.4	14.6	18.3	59	0.1	0.2	0.4	0.7	1.5	3.0	7.6	13.5
10	0.1	0.2	0.5	1.4	3.7	8.5	15.3	19.4	60	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.3
11	0.1	0.2	0.5	1.3	3.6	8.7	16.0	20.5	61	0.1	0.2	0.4	0.7	1.5	3.1	7.3	13.0
12	0.1	0.1	0.4	1.3	3.5	8.8	16.6	21.7	62	0.1	0.2	0.4	0.7	1.5	3.1	7.3	12.8
13	0.1	0.1	0.4	1.2	3.4	8.8	17.1	22.9	63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.6
14	0.1	0.1	0.4	1.2	3.3	8.8	17.6	23.9	64	0.1	0.2	0.4	0.8	1.5	3.2	7.2	12.4
15	0.1	0.1	0.4	1.1	3.2	8.6	18.0	24.9	65	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.2
16	0.1	0.1	0.4	1.1	3.1	8.4	18.4	25.8	66	0.1	0.2	0.4	0.8	1.6	3.2	7.1	12.0
17	0.1	0.1	0.4	1.0	3.0	8.1	18.7	26.6	67	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.9
18	0.1	0.1	0.3	2.9	2.9	7.9	19.0	27.4	68	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.8
19	0.1	0.1	0.3	2.8	2.8	7.7	19.2	28.0	69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.8
20	0.1	0.1	0.3	2.7	2.7	7.5	19.4	28.5	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.8
21	0.1	0.1	0.3	2.6	2.6	7.3	19.7	29.1	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.7
22	0.1	0.1	0.3	2.5	2.5	7.2	19.9	29.5	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.6
23	0.1	0.1	0.3	2.4	2.4	7.0	18.9	29.9	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.6
24	0.1	0.1	0.3	2.4	2.4	6.8	18.4	30.2	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.6
25	0.1	0.1	0.3	2.3	2.3	6.6	17.9	30.4	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.6
26	0.1	0.1	0.3	2.2	2.2	6.4	17.4	30.7	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	2.1	2.1	6.2	17.0	30.9	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	2.1	2.1	6.0	16.7	29.3	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	2.0	2.0	5.8	16.3	28.4	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
30	0.1	0.1	0.3	1.9	1.9	5.6	16.0	27.8	80	0.1	0.2	0.5	0.9	1.8	3.8	8.0	12.3
31	0.1	0.1	0.3	1.8	1.8	5.5	15.6	27.1	81	0.1	0.2	0.5	0.9	1.9	3.8	8.1	12.4
32	0.1	0.1	0.3	1.8	1.8	5.3	15.2	26.5	82	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
33	0.1	0.1	0.3	1.7	1.7	5.1	14.8	26.0	83	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
34	0.1	0.1	0.3	1.7	1.7	4.9	14.4	25.6	84	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
35	0.1	0.1	0.3	1.6	1.6	4.7	14.0	25.0	85	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
36	0.1	0.1	0.3	1.6	1.6	4.5	13.6	24.4	86	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
37	0.1	0.1	0.3	1.5	1.5	4.4	13.2	23.8	87	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
38	0.1	0.1	0.3	1.5	1.5	4.2	12.9	23.3	88	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3
39	0.1	0.1	0.3	1.5	1.5	4.2	12.5	22.7	89	0.1	0.2	0.5	1.0	2.0	4.2	8.8	13.5
40	0.1	0.1	0.3	1.4	1.4	4.1	12.2	22.1	90	0.1	0.3	0.5	1.0	2.0	4.2	8.9	13.7
41	0.1	0.1	0.3	1.4	1.4	4.0	11.9	21.5	91	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
42	0.1	0.1	0.3	1.4	1.4	3.9	11.5	21.0	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
43	0.1	0.2	0.3	1.4	1.4	3.7	11.2	20.4	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
44	0.1	0.2	0.3	1.4	1.4	3.6	10.9	19.9	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	1.4	1.4	3.5	10.6	19.5	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	1.3	1.3	3.5	10.3	18.9	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	1.3	1.3	3.4	10.0	18.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	1.3	1.3	3.4	9.7	17.9	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	1.3	1.3	3.3	9.4	17.4	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	1.3	1.3	3.2	9.2	17.0	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 72 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ									
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	0.1	0.2	0.7	1.8	3.8	6.3	9.0	11.2	51	0.1	0.2	0.3	0.7	1.4	3.1	8.8	16.4	51	0.1	0.2	0.3	0.7	1.4	3.1	8.8
2	0.1	0.2	0.6	1.7	3.9	6.7	9.6	11.9	52	0.1	0.2	0.3	0.7	1.4	3.1	8.6	16.0	52	0.1	0.2	0.3	0.7	1.4	3.1	8.6
3	0.1	0.2	0.6	1.7	3.9	7.0	10.3	12.7	53	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.5	53	0.1	0.2	0.3	0.7	1.4	3.1	8.4
4	0.1	0.2	0.6	1.6	4.0	7.3	11.0	13.5	54	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.1	54	0.1	0.2	0.3	0.7	1.4	3.1	8.2
5	0.1	0.2	0.6	1.6	4.0	7.6	11.8	14.4	55	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.7	55	0.1	0.2	0.3	0.7	1.4	3.0	8.0
6	0.1	0.2	0.6	1.5	4.0	7.9	12.5	15.3	56	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.3	56	0.1	0.2	0.3	0.7	1.4	3.0	7.8
7	0.1	0.2	0.5	1.5	4.0	8.1	13.2	16.4	57	0.1	0.2	0.4	0.7	1.4	3.0	7.7	14.0	57	0.1	0.2	0.4	0.7	1.4	3.0	7.7
8	0.1	0.2	0.5	1.4	3.9	8.2	14.0	17.4	58	0.1	0.2	0.4	0.7	1.5	3.0	7.6	13.7	58	0.1	0.2	0.4	0.7	1.5	3.0	7.6
9	0.1	0.2	0.5	1.4	3.7	8.4	14.8	18.6	59	0.1	0.2	0.4	0.7	1.5	3.0	7.5	13.4	59	0.1	0.2	0.4	0.7	1.5	3.0	7.5
10	0.1	0.2	0.5	1.4	3.6	8.6	15.5	19.7	60	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.1	60	0.1	0.2	0.4	0.7	1.5	3.0	7.4
11	0.1	0.2	0.4	1.3	3.5	8.7	16.1	20.8	61	0.1	0.2	0.4	0.7	1.5	3.1	7.3	12.8	61	0.1	0.2	0.4	0.7	1.5	3.1	7.3
12	0.1	0.1	0.4	1.2	3.4	8.8	16.7	22.0	62	0.1	0.2	0.4	0.7	1.5	3.1	7.2	12.6	62	0.1	0.2	0.4	0.7	1.5	3.1	7.2
13	0.1	0.1	0.4	1.2	3.3	9.0	17.2	23.1	63	0.1	0.2	0.4	0.8	1.5	3.1	7.2	12.4	63	0.1	0.2	0.4	0.8	1.5	3.1	7.2
14	0.1	0.1	0.4	1.2	3.3	9.3	17.7	24.1	64	0.1	0.2	0.4	0.8	1.5	3.2	7.2	12.3	64	0.1	0.2	0.4	0.8	1.5	3.2	7.2
15	0.1	0.1	0.4	1.1	3.2	9.6	18.0	25.1	65	0.1	0.2	0.4	0.8	1.6	3.2	7.1	12.1	65	0.1	0.2	0.4	0.8	1.6	3.2	7.1
16	0.1	0.1	0.4	1.1	3.1	9.9	18.4	26.0	66	0.1	0.2	0.4	0.8	1.6	3.2	7.1	11.9	66	0.1	0.2	0.4	0.8	1.6	3.2	7.1
17	0.1	0.1	0.3	1.0	3.0	10.0	18.7	26.8	67	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.8	67	0.1	0.2	0.4	0.8	1.6	3.3	7.1
18	0.1	0.1	0.3	1.0	2.9	10.3	19.0	27.5	68	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.8	68	0.1	0.2	0.4	0.8	1.6	3.3	7.1
19	0.1	0.1	0.3	1.0	2.8	10.6	19.2	28.0	69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.7	69	0.1	0.2	0.4	0.8	1.6	3.4	7.1
20	0.1	0.1	0.3	0.9	2.7	10.9	19.4	28.6	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.7	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1
21	0.1	0.1	0.3	0.9	2.6	11.2	19.3	29.1	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.6	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2
22	0.1	0.1	0.3	0.8	2.5	11.5	19.1	29.6	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.6	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3
23	0.1	0.1	0.3	0.8	2.4	11.8	18.1	30.2	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.5	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3
24	0.1	0.1	0.3	0.8	2.3	12.1	17.7	30.8	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.5	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4
25	0.1	0.1	0.3	0.8	2.2	12.4	17.2	31.3	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5
26	0.1	0.1	0.3	0.7	2.2	12.7	16.5	31.9	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6
27	0.1	0.1	0.3	0.7	2.1	13.0	16.0	32.4	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6
28	0.1	0.1	0.3	0.7	2.0	13.3	15.5	32.9	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7
29	0.1	0.1	0.3	0.7	2.0	13.6	15.0	33.4	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8
30	0.1	0.1	0.3	0.7	1.9	13.9	14.5	33.9	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9
31	0.1	0.1	0.3	0.6	1.8	14.2	14.0	34.4	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0
32	0.1	0.1	0.3	0.6	1.7	14.5	13.5	34.9	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1
33	0.1	0.1	0.3	0.6	1.7	14.8	13.0	35.4	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2
34	0.1	0.1	0.3	0.6	1.6	15.1	12.5	35.9	84	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6	84	0.1	0.2	0.5	1.0	1.9	4.0	8.3
35	0.1	0.1	0.3	0.6	1.6	15.4	12.0	36.4	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3
36	0.1	0.1	0.3	0.6	1.5	15.7	11.5	36.9	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4
37	0.1	0.1	0.3	0.6	1.5	16.0	11.0	37.4	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4
38	0.1	0.1	0.3	0.6	1.5	16.3	10.5	37.9	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5
39	0.1	0.1	0.3	0.6	1.4	16.6	10.0	38.4	89	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.5
40	0.1	0.1	0.3	0.6	1.4	16.9	9.5	38.9	90	0.1	0.2	0.5	1.0	2.0	4.2	8.6	13.3	90	0.1	0.2	0.5	1.0	2.0	4.2	8.6
41	0.1	0.1	0.3	0.6	1.4	17.2	9.0	39.4	91	0.1	0.2	0.5	1.0	2.1	4.2	8.7	13.4	91	0.1	0.2	0.5	1.0	2.1	4.2	8.7
42	0.1	0.1	0.3	0.6	1.4	17.5	8.5	39.9	92	0.1	0.2	0.5	1.0	2.1	4.3	8.8	13.5	92	0.1	0.2	0.5	1.0	2.1	4.3	8.8
43	0.1	0.1	0.3	0.6	1.4	17.8	8.0	40.4	93	0.1	0.2	0.5	1.0	2.1	4.3	8.9	13.7	93	0.1	0.2	0.5	1.0	2.1	4.3	8.9
44	0.1	0.1	0.3	0.6	1.4	18.1	7.5	40.9	94	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.8	94	0.1	0.2	0.5	1.0	2.1	4.3	9.0
45	0.1	0.1	0.3	0.6	1.3	18.4	7.0	41.4	95	0.1	0.2	0.5	1.1	2.1	4.4	9.1	13.9	95	0.1	0.2	0.5	1.1	2.1	4.4	9.1
46	0.1	0.1	0.3	0.6	1.3	18.7	6.5	41.9	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2
47	0.1	0.1	0.3	0.6	1.3	19.0	6.0	42.4	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.2	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3
48	0.1	0.1	0.3	0.6	1.3	19.3	5.5	42.9	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.3	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4
49	0.1	0.1	0.3	0.6	1.3	19.6	5.0	43.4	99	0.1	0.2	0.5	1.1	2.2	4.6	9.5	14.4	99	0.1	0.2	0.5	1.1	2.2	4.6	9.5
50	0.1	0.1	0.3	0.7	1.3	19.9	4.5	43.9	100	0.1	0.2	0.6	1.1	2.2	4.6	9.6	14.5	100	0.1	0.2	0.6	1.1	2.2	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 73 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
2	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
3	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
4	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
5	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
6	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
7	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
8	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
9	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
10	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
11	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
12	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
13	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
14	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
15	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
16	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
17	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
18	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
19	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
20	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
21	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
22	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
23	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
24	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
25	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
26	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
27	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
28	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
29	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
30	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
31	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
32	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
33	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
34	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
35	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
36	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
37	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
38	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
39	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
40	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
41	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
42	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
43	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
44	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
45	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
46	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
47	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
48	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
49	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1
50	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	18.8	30.9	50.1	78.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB REF 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND 74 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ					
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.7	1.5	3.8	6.5	9.3	11.5	51	0.1	0.2	0.7	1.4	3.1	8.6	15.9
2	0.1	0.2	0.5	1.7	3.9	5.8	9.9	12.3	52	0.1	0.2	0.3	0.7	1.4	8.3	15.5
3	0.1	0.2	0.6	1.6	4.0	7.2	10.6	13.1	53	0.1	0.2	0.3	0.7	1.4	8.1	15.1
4	0.1	0.2	0.6	1.6	4.0	7.4	11.3	13.9	54	0.1	0.2	0.3	0.7	1.4	8.0	14.7
5	0.1	0.2	0.6	1.5	4.0	7.7	12.1	14.8	55	0.1	0.2	0.3	0.7	1.4	7.8	14.3
6	0.1	0.2	0.6	1.5	4.0	7.9	12.8	15.8	56	0.1	0.2	0.3	0.7	1.4	7.7	13.9
7	0.1	0.2	0.6	1.5	3.9	8.1	13.6	16.9	57	0.1	0.2	0.4	0.7	1.4	7.6	13.6
8	0.1	0.2	0.5	1.4	3.8	8.3	14.4	19.0	58	0.1	0.2	0.4	0.7	1.5	7.4	13.3
9	0.1	0.2	0.5	1.4	3.7	8.4	15.1	19.1	59	0.1	0.2	0.4	0.7	1.5	7.3	13.0
10	0.1	0.2	0.5	1.4	3.6	8.6	15.8	20.2	60	0.1	0.2	0.4	0.7	1.5	7.2	12.8
11	0.1	0.1	0.4	1.3	3.4	8.7	16.4	21.3	61	0.1	0.2	0.4	0.7	1.5	7.2	12.6
12	0.1	0.1	0.4	1.2	3.4	8.7	16.9	22.5	62	0.1	0.2	0.4	0.7	1.5	7.2	12.4
13	0.1	0.1	0.4	1.2	3.3	8.7	17.4	23.6	63	0.1	0.2	0.4	0.8	1.5	7.1	12.2
14	0.1	0.1	0.4	1.1	3.2	8.6	17.8	24.6	64	0.1	0.2	0.4	0.8	1.5	7.1	12.0
15	0.1	0.1	0.4	1.1	3.1	8.5	18.2	25.5	65	0.1	0.2	0.4	0.8	1.6	7.0	11.8
16	0.1	0.1	0.4	1.0	3.0	8.4	18.5	26.3	66	0.1	0.2	0.4	0.8	1.6	7.0	11.7
17	0.1	0.1	0.3	1.0	2.9	8.3	18.8	27.0	67	0.1	0.2	0.4	0.8	1.6	7.0	11.7
18	0.1	0.1	0.3	1.0	2.8	8.2	19.0	27.7	68	0.1	0.2	0.4	0.8	1.6	7.0	11.7
19	0.1	0.1	0.3	0.9	2.7	8.1	19.2	28.2	69	0.1	0.2	0.4	0.8	1.6	7.0	11.6
20	0.1	0.1	0.3	0.9	2.6	8.0	19.4	28.8	70	0.1	0.2	0.4	0.8	1.7	7.1	11.5
21	0.1	0.1	0.3	0.9	2.5	7.9	19.6	29.4	71	0.1	0.2	0.4	0.8	1.7	7.2	11.5
22	0.1	0.1	0.3	0.8	2.4	7.8	19.8	29.9	72	0.1	0.2	0.4	0.8	1.7	7.3	11.4
23	0.1	0.1	0.3	0.8	2.3	7.7	19.9	30.4	73	0.1	0.2	0.4	0.8	1.7	7.4	11.4
24	0.1	0.1	0.3	0.8	2.3	7.6	20.0	30.9	74	0.1	0.2	0.4	0.8	1.7	7.5	11.5
25	0.1	0.1	0.3	0.7	2.2	7.5	20.1	31.4	75	0.1	0.2	0.4	0.9	1.7	7.6	11.7
26	0.1	0.1	0.3	0.7	2.1	7.4	20.2	31.9	76	0.1	0.2	0.4	0.9	1.7	7.7	11.8
27	0.1	0.1	0.3	0.7	2.0	7.3	20.3	32.4	77	0.1	0.2	0.4	0.9	1.7	7.8	11.9
28	0.1	0.1	0.3	0.7	2.0	7.2	20.4	32.9	78	0.1	0.2	0.4	0.9	1.8	7.9	12.1
29	0.1	0.1	0.3	0.7	1.9	7.1	20.5	33.4	79	0.1	0.2	0.4	0.9	1.8	8.0	12.3
30	0.1	0.1	0.3	0.6	1.8	7.0	20.6	33.9	80	0.1	0.2	0.5	0.9	1.9	8.1	12.4
31	0.1	0.1	0.3	0.6	1.8	6.9	20.7	34.4	81	0.1	0.2	0.5	0.9	1.9	8.2	12.5
32	0.1	0.1	0.3	0.6	1.7	6.8	20.8	34.9	82	0.1	0.2	0.5	0.9	1.9	8.3	12.6
33	0.1	0.1	0.3	0.6	1.6	6.7	20.9	35.4	83	0.1	0.2	0.5	0.9	1.9	8.4	12.9
34	0.1	0.1	0.3	0.6	1.6	6.6	21.0	35.9	84	0.1	0.2	0.5	1.0	2.0	8.5	13.0
35	0.1	0.1	0.3	0.6	1.5	6.5	21.1	36.4	85	0.1	0.2	0.5	1.0	2.0	8.6	13.1
36	0.1	0.1	0.3	0.6	1.5	6.4	21.2	36.9	86	0.1	0.2	0.5	1.0	2.0	8.7	13.3
37	0.1	0.1	0.3	0.6	1.4	6.3	21.3	37.4	87	0.1	0.2	0.5	1.0	2.0	8.8	13.4
38	0.1	0.1	0.3	0.6	1.4	6.2	21.4	37.9	88	0.1	0.2	0.5	1.0	2.1	8.9	13.5
39	0.1	0.1	0.3	0.6	1.4	6.1	21.5	38.4	89	0.1	0.2	0.5	1.0	2.1	9.0	13.6
40	0.1	0.1	0.3	0.6	1.3	6.0	21.6	38.9	90	0.1	0.2	0.5	1.0	2.1	9.1	13.9
41	0.1	0.1	0.3	0.6	1.3	5.9	21.7	39.4	91	0.1	0.2	0.5	1.0	2.2	9.2	14.1
42	0.1	0.1	0.3	0.6	1.3	5.8	21.8	39.9	92	0.1	0.2	0.5	1.0	2.2	9.3	14.2
43	0.1	0.1	0.3	0.6	1.3	5.7	21.9	40.4	93	0.1	0.2	0.5	1.0	2.1	9.4	14.5
44	0.1	0.2	0.3	0.6	1.3	5.6	22.0	40.9	94	0.1	0.2	0.5	1.0	2.1	9.5	14.6
45	0.1	0.2	0.3	0.6	1.3	5.5	22.1	41.4	95	0.1	0.2	0.5	1.1	2.1	9.6	14.7
46	0.1	0.2	0.3	0.6	1.3	5.4	22.2	41.9	96	0.1	0.2	0.5	1.1	2.2	9.7	14.8
47	0.1	0.2	0.3	0.6	1.3	5.3	22.3	42.4	97	0.1	0.2	0.5	1.1	2.2	9.8	14.9
48	0.1	0.2	0.3	0.6	1.3	5.2	22.4	42.9	98	0.1	0.2	0.5	1.1	2.2	9.9	15.0
49	0.1	0.2	0.3	0.7	1.3	5.1	22.5	43.4	99	0.1	0.2	0.6	1.1	2.2	10.0	15.1
50	0.1	0.2	0.3	0.7	1.3	5.0	22.6	43.9	100	0.1	0.2	0.6	1.1	2.3	10.1	15.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 75 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.7	3.8	6.6	9.4	11.7	51	0.1	0.2	0.3	0.7	1.4	3.1	6.4	15.7
2	0.1	0.2	0.6	1.7	3.9	6.9	10.1	12.4	52	0.1	0.2	0.3	0.7	1.4	3.1	6.2	15.3
3	0.1	0.2	0.6	1.6	3.9	7.2	10.8	13.2	53	0.1	0.2	0.3	0.7	1.4	3.0	6.0	14.9
4	0.1	0.2	0.6	1.6	4.0	7.5	11.5	14.1	54	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.4
5	0.1	0.2	0.6	1.5	4.0	7.7	12.2	15.0	55	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1
6	0.1	0.2	0.5	1.5	4.0	8.0	13.0	16.0	56	0.1	0.2	0.4	0.7	1.4	3.0	7.6	13.8
7	0.1	0.2	0.5	1.4	3.9	8.1	13.6	17.1	57	0.1	0.2	0.4	0.7	1.4	3.0	7.5	13.5
8	0.1	0.2	0.5	1.4	3.7	8.3	14.5	18.2	58	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.2
9	0.1	0.2	0.5	1.3	3.6	8.5	15.2	19.3	59	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.9
10	0.1	0.2	0.4	1.3	3.5	8.6	15.9	20.4	60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.6
11	0.1	0.1	0.4	1.2	3.4	8.7	16.5	21.6	61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.4
12	0.1	0.1	0.4	1.2	3.3	8.7	17.0	22.8	62	0.1	0.2	0.4	0.8	1.5	3.1	7.1	12.1
13	0.1	0.1	0.4	1.2	3.2	8.7	17.4	23.8	63	0.1	0.2	0.4	0.8	1.5	3.2	7.0	11.9
14	0.1	0.1	0.4	1.1	3.1	8.5	17.8	24.8	64	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7
15	0.1	0.1	0.4	1.1	3.0	8.2	18.2	25.6	65	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7
16	0.1	0.1	0.3	1.0	2.9	8.0	18.5	26.4	66	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6
17	0.1	0.1	0.3	1.0	2.8	7.8	18.8	27.1	67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6
18	0.1	0.1	0.3	0.9	2.7	7.5	19.0	27.7	68	0.1	0.2	0.4	0.9	1.6	3.4	7.0	11.5
19	0.1	0.1	0.3	0.9	2.7	7.4	19.2	28.3	69	0.1	0.2	0.4	0.9	1.7	3.4	7.1	11.4
20	0.1	0.1	0.3	0.9	2.6	7.2	19.4	28.8	70	0.1	0.2	0.4	0.9	1.7	3.4	7.2	11.4
21	0.1	0.1	0.3	0.8	2.5	7.0	19.6	29.2	71	0.1	0.2	0.4	0.9	1.7	3.5	7.3	11.4
22	0.1	0.1	0.3	0.8	2.4	6.8	18.6	29.6	72	0.1	0.2	0.4	0.9	1.7	3.5	7.3	11.4
23	0.1	0.1	0.3	0.8	2.3	6.6	18.0	29.9	73	0.1	0.2	0.4	0.9	1.7	3.5	7.3	11.4
24	0.1	0.1	0.3	0.8	2.2	6.4	17.5	30.0	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.5
25	0.1	0.1	0.3	0.7	2.1	6.2	17.1	29.8	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.7	2.1	6.0	16.7	29.4	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.7	2.0	5.8	16.3	29.6	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.7	1.9	5.7	16.0	29.8	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.9	5.5	15.6	29.2	79	0.1	0.2	0.4	0.9	1.9	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.8	5.3	15.2	28.6	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
31	0.1	0.1	0.3	0.6	1.7	5.2	14.8	28.0	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
32	0.1	0.1	0.3	0.6	1.7	5.0	14.4	27.5	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
33	0.1	0.1	0.3	0.6	1.6	4.8	14.1	27.0	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
34	0.1	0.1	0.3	0.6	1.6	4.7	13.7	26.4	84	0.1	0.2	0.5	0.9	1.9	4.0	8.3	12.6
35	0.1	0.1	0.3	0.6	1.5	4.5	13.3	25.9	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.8
36	0.1	0.1	0.3	0.6	1.5	4.4	12.9	25.3	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
37	0.1	0.1	0.3	0.6	1.5	4.3	12.6	24.7	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.4	4.1	12.2	24.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.4	4.0	11.9	23.5	89	0.1	0.3	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.4	3.8	11.5	23.0	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.4	3.7	11.2	22.4	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.3	3.6	10.9	21.9	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.3	0.6	1.3	3.5	10.6	21.4	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.1	0.3	0.6	1.3	3.4	10.3	20.9	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.1	0.3	0.6	1.3	3.3	9.9	20.4	95	0.1	0.3	0.5	1.1	2.1	4.4	9.1	13.9
46	0.1	0.1	0.3	0.6	1.3	3.3	9.7	19.9	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.1	0.3	0.6	1.3	3.2	9.4	19.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.1	0.3	0.6	1.3	3.2	9.1	19.0	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.1	0.3	0.7	1.3	3.1	8.9	18.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	3.1	8.7	18.7	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 76 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M ²					BAND CENTER FREQUENCY, M ²					BAND CENTER FREQUENCY, M ²					BAND CENTER FREQUENCY, M ²				
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.1	0.2	0.6	1.7	3.8	6.6	9.5	11.9	51	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.5			
2	0.1	0.2	0.6	1.7	3.9	7.0	10.2	12.5	52	0.1	0.2	0.3	0.7	1.4	3.0	8.1	15.1			
3	0.1	0.2	0.6	1.6	3.9	7.3	10.9	13.4	53	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.6			
4	0.1	0.2	0.6	1.6	4.0	7.5	11.7	14.3	54	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.2			
5	0.1	0.2	0.5	1.5	4.0	7.8	12.4	15.3	55	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.9			
6	0.1	0.2	0.5	1.5	3.9	8.0	13.2	16.3	56	0.1	0.2	0.3	0.7	1.4	3.0	7.5	13.6			
7	0.1	0.2	0.5	1.4	3.6	8.2	13.9	17.4	57	0.1	0.2	0.4	0.7	1.4	3.0	7.4	13.3			
8	0.1	0.2	0.5	1.4	3.7	8.3	14.7	18.5	58	0.1	0.2	0.4	0.7	1.5	3.0	7.3	13.0			
9	0.1	0.2	0.5	1.3	3.6	8.5	15.4	19.6	59	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.7			
10	0.1	0.1	0.4	1.3	3.5	8.6	16.0	20.7	60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.5			
11	0.1	0.1	0.4	1.2	3.4	8.7	16.6	21.9	61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.3			
12	0.1	0.1	0.4	1.2	3.3	8.7	17.1	23.0	62	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.1			
13	0.1	0.1	0.4	1.1	3.2	8.6	17.5	24.0	63	0.1	0.2	0.4	0.8	1.5	3.1	7.0	12.0			
14	0.1	0.1	0.4	1.1	3.1	8.4	17.9	24.9	64	0.1	0.2	0.4	0.8	1.5	3.2	7.0	11.8			
15	0.1	0.1	0.4	1.1	3.0	8.1	18.2	25.8	65	0.1	0.2	0.4	0.8	1.4	3.2	7.0	11.7			
16	0.1	0.1	0.3	1.0	2.9	7.9	18.5	26.6	66	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.6			
17	0.1	0.1	0.3	1.0	2.8	7.7	18.8	27.3	67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6			
18	0.1	0.1	0.3	0.9	2.7	7.5	19.0	27.8	68	0.1	0.2	0.4	0.8	1.5	3.3	7.0	11.5			
19	0.1	0.1	0.3	0.9	2.6	7.3	19.1	28.4	69	0.1	0.2	0.4	0.8	1.5	3.4	7.0	11.4			
20	0.1	0.1	0.3	0.9	2.5	7.1	19.1	28.9	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.4			
21	0.1	0.1	0.3	0.8	2.4	6.9	18.8	29.3	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.4			
22	0.1	0.1	0.3	0.8	2.4	6.7	18.4	29.6	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4			
23	0.1	0.1	0.3	0.8	2.3	6.5	17.8	29.9	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4			
24	0.1	0.1	0.3	0.7	2.2	6.3	17.3	29.9	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4			
25	0.1	0.1	0.3	0.7	2.1	6.1	16.9	29.6	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5			
26	0.1	0.1	0.3	0.7	2.0	5.9	16.5	29.1	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6			
27	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.2	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7			
28	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.5	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8			
29	0.1	0.1	0.3	0.6	1.8	5.4	15.5	26.9	79	0.1	0.2	0.4	0.9	1.9	3.7	7.8	11.9			
30	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.3	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1			
31	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.7	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2			
32	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.3	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3			
33	0.1	0.1	0.3	0.6	1.6	4.7	13.9	24.7	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4			
34	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5			
35	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.6	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6			
36	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.7			
37	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9			
38	0.1	0.1	0.3	0.6	1.4	4.0	12.1	21.8	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0			
39	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.3	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1			
40	0.1	0.1	0.3	0.6	1.4	3.8	11.4	20.7	90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3			
41	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.2	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4			
42	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.7	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5			
43	0.1	0.2	0.3	0.6	1.3	3.5	10.4	19.2	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7			
44	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8			
45	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9			
46	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1			
47	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2			
48	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.7	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4			
49	0.1	0.2	0.3	0.7	1.3	3.1	8.8	16.4	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5			
50	0.1	0.2	0.3	0.7	1.3	3.1	8.5	15.9	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 77 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ							BAND CENTER FREQUENCY, HZ									
		63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	T	0.1	0.2	0.6	1.7	3.8	6.7	9.7	12.0	51	0.1	0.2	0.3	0.7	1.4	3.0	6.2	15.3
2	E	0.1	0.2	0.6	1.6	3.9	7.0	10.4	12.8	52	0.1	0.2	0.3	0.7	1.4	3.0	6.0	14.9
3	P	0.1	0.2	0.6	1.6	4.0	7.3	11.1	13.6	53	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.1
4	R	0.1	0.2	0.6	1.5	4.0	7.6	11.8	14.5	54	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1
5	A	0.1	0.2	0.5	1.5	4.0	7.8	12.6	15.5	55	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.7
6	I	0.1	0.2	0.5	1.5	3.9	8.0	13.3	16.5	56	0.1	0.2	0.3	0.7	1.4	3.0	7.4	13.4
7	T	0.1	0.2	0.5	1.4	3.8	8.2	14.1	17.6	57	0.1	0.2	0.4	0.7	1.4	3.0	7.3	13.1
8	E	0.1	0.2	0.5	1.4	3.7	8.4	14.8	18.7	58	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.8
9	P	0.1	0.2	0.5	1.3	3.5	8.5	15.5	19.8	59	0.1	0.2	0.4	0.7	1.5	3.0	7.1	12.6
10	R	0.1	0.1	0.4	1.2	3.3	8.6	16.1	20.9	60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.4
11	A	0.1	0.1	0.4	1.2	3.3	8.7	16.7	22.1	61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.2
12	I	0.1	0.1	0.4	1.2	3.3	8.6	17.2	23.2	62	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.0
13	T	0.1	0.1	0.4	1.1	3.2	8.5	17.6	24.2	63	0.1	0.2	0.4	0.8	1.5	3.1	7.0	11.8
14	E	0.1	0.1	0.4	1.1	3.1	8.3	17.9	25.1	64	0.1	0.2	0.4	0.8	1.5	3.2	6.9	11.7
15	P	0.1	0.1	0.4	1.0	3.0	8.0	18.3	26.0	65	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.6
16	R	0.1	0.1	0.3	1.0	2.9	7.8	18.6	26.7	66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.5
17	A	0.1	0.1	0.3	1.0	2.8	7.6	18.8	27.3	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.5
18	I	0.1	0.1	0.3	0.9	2.7	7.4	19.0	27.9	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.4
19	T	0.1	0.1	0.3	0.9	2.6	7.2	19.1	28.4	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.4
20	E	0.1	0.1	0.3	0.9	2.5	7.0	19.0	28.9	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.3
21	P	0.1	0.1	0.3	0.8	2.4	6.9	18.7	29.3	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.3
22	R	0.1	0.1	0.3	0.8	2.3	6.7	18.1	29.6	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
23	A	0.1	0.1	0.3	0.8	2.2	6.5	17.6	29.7	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
24	I	0.1	0.1	0.3	0.7	2.2	6.3	17.1	29.7	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
25	T	0.1	0.1	0.3	0.7	2.1	6.1	16.7	29.4	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	E	0.1	0.1	0.3	0.7	2.0	5.9	16.4	28.8	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	P	0.1	0.1	0.3	0.7	1.9	5.7	16.0	27.9	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
28	R	0.1	0.1	0.3	0.6	1.9	5.5	15.7	27.2	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	A	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.6	79	0.1	0.2	0.5	0.9	1.8	3.7	7.8	11.9
30	I	0.1	0.1	0.3	0.6	1.7	5.2	14.9	26.0	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	T	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.5	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	E	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.0	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
33	P	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.5	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	R	0.1	0.1	0.3	0.6	1.5	4.6	13.3	23.9	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	A	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3	85	0.1	0.2	0.5	0.9	1.9	4.0	8.3	12.6
36	I	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	T	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	E	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.6	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	P	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	R	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.4	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	A	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.8	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	I	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	T	0.1	0.2	0.3	0.6	1.3	3.4	10.3	19.0	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	E	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.4	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	P	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.9	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	R	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.4	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	A	0.1	0.2	0.3	0.6	1.3	3.2	9.2	16.9	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	I	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.6	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	T	0.1	0.2	0.3	0.7	1.3	3.1	8.6	16.2	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	E	0.1	0.2	0.3	0.7	1.3	3.0	8.4	15.7	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 76 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.1	0.2	0.6	1.7	3.8	6.8	9.8	12.1	51	0.1	0.2	0.7	0.7	1.4	3.0	8.1	15.1			
2	0.1	0.2	0.6	1.6	3.9	7.1	10.5	13.8	52	0.1	0.2	0.7	0.7	1.4	3.0	8.1	14.6			
3	0.1	0.2	0.6	1.6	4.0	7.4	11.2	13.8	53	0.1	0.2	0.7	0.7	1.4	3.0	7.8	14.2			
4	0.1	0.2	0.6	1.5	4.0	7.6	12.0	14.7	54	0.1	0.2	0.7	0.7	1.4	3.0	7.6	13.9			
5	0.1	0.2	0.5	1.5	3.9	7.9	12.7	15.7	55	0.1	0.2	0.7	0.7	1.4	3.0	7.5	13.6			
6	0.1	0.2	0.5	1.4	3.9	8.0	13.5	16.7	56	0.1	0.2	0.7	0.7	1.4	2.9	7.4	13.3			
7	0.1	0.2	0.5	1.4	3.7	8.2	14.3	17.9	57	0.1	0.2	0.7	0.7	1.4	3.0	7.3	13.0			
8	0.1	0.2	0.5	1.3	3.6	8.4	15.0	19.0	58	0.1	0.2	0.7	0.7	1.5	3.0	7.1	12.7			
9	0.1	0.2	0.4	1.3	3.5	8.5	15.6	20.1	59	0.1	0.2	0.7	0.7	1.5	3.0	7.1	12.5			
10	0.1	0.2	0.4	1.2	3.4	8.6	16.2	21.2	60	0.1	0.2	0.7	0.7	1.5	3.1	7.1	12.3			
11	0.1	0.1	0.4	1.2	3.3	8.6	16.8	22.4	61	0.1	0.2	0.7	0.7	1.5	3.1	7.0	12.1			
12	0.1	0.1	0.4	1.1	3.2	8.6	17.2	23.4	62	0.1	0.2	0.7	0.7	1.5	3.1	7.0	11.9			
13	0.1	0.1	0.4	1.1	3.1	8.5	17.6	24.4	63	0.1	0.2	0.7	0.7	1.5	3.1	6.9	11.7			
14	0.1	0.1	0.4	1.1	3.0	8.2	18.0	25.3	64	0.1	0.2	0.7	0.7	1.5	3.2	6.9	11.6			
15	0.1	0.1	0.3	1.0	2.9	8.9	18.3	26.1	65	0.1	0.2	0.7	0.7	1.6	3.2	6.9	11.5			
16	0.1	0.1	0.3	1.0	2.8	7.7	18.4	26.8	66	0.1	0.2	0.7	0.7	1.6	3.2	6.9	11.5			
17	0.1	0.1	0.3	0.9	2.6	7.3	19.0	28.0	67	0.1	0.2	0.7	0.7	1.6	3.3	6.9	11.4			
18	0.1	0.1	0.3	0.9	2.5	7.2	19.0	28.5	68	0.1	0.2	0.7	0.7	1.6	3.3	7.0	11.4			
19	0.1	0.1	0.3	0.8	2.5	7.0	18.8	28.9	69	0.1	0.2	0.7	0.7	1.6	3.4	7.0	11.3			
20	0.1	0.1	0.3	0.8	2.4	6.8	18.5	29.3	70	0.1	0.2	0.7	0.7	1.7	3.4	7.1	11.3			
21	0.1	0.1	0.3	0.8	2.4	6.6	17.9	29.6	71	0.1	0.2	0.7	0.7	1.7	3.4	7.2	11.3			
22	0.1	0.1	0.3	0.7	2.2	6.4	17.4	29.7	72	0.1	0.2	0.7	0.7	1.7	3.5	7.3	11.3			
23	0.1	0.1	0.3	0.7	2.1	6.2	17.0	29.9	73	0.1	0.2	0.7	0.7	1.7	3.5	7.3	11.3			
24	0.1	0.1	0.3	0.7	2.1	6.0	16.6	29.2	74	0.1	0.2	0.7	0.7	1.7	3.5	7.4	11.3			
25	0.1	0.1	0.3	0.7	2.1	5.8	16.2	28.4	75	0.1	0.2	0.7	0.7	1.7	3.6	7.5	11.5			
26	0.1	0.1	0.3	0.7	2.0	5.6	15.9	27.6	76	0.1	0.2	0.7	0.7	1.8	3.6	7.6	11.6			
27	0.1	0.1	0.3	0.7	1.9	5.6	15.4	27.6	77	0.1	0.2	0.7	0.7	1.8	3.6	7.6	11.7			
28	0.1	0.1	0.3	0.6	1.8	5.4	15.5	26.9	78	0.1	0.2	0.7	0.7	1.8	3.7	7.7	11.8			
29	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8	79	0.1	0.2	0.7	0.7	1.8	3.7	7.8	11.9			
30	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8	80	0.1	0.2	0.7	0.7	1.8	3.8	7.9	12.2			
31	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.3	81	0.1	0.2	0.7	0.7	1.9	3.8	8.0	12.3			
32	0.1	0.1	0.3	0.6	1.6	4.6	13.9	24.8	82	0.1	0.2	0.7	0.7	1.9	3.9	8.1	12.4			
33	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2	83	0.1	0.2	0.7	0.7	1.9	3.9	8.1	12.4			
34	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.6	84	0.1	0.2	0.7	0.7	1.9	3.9	8.2	12.5			
35	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.0	85	0.1	0.2	0.7	0.7	1.9	4.0	8.3	12.6			
36	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.5	86	0.1	0.2	0.7	0.7	2.0	4.0	8.3	12.6			
37	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9	87	0.1	0.2	0.7	0.7	2.0	4.0	8.4	12.9			
38	0.1	0.1	0.3	0.6	1.4	3.9	11.8	21.3	88	0.1	0.2	0.7	0.7	2.0	4.1	8.5	13.0			
39	0.1	0.1	0.3	0.6	1.4	3.8	11.4	20.7	89	0.1	0.2	0.7	0.7	2.0	4.1	8.6	13.1			
40	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.2	90	0.1	0.2	0.7	0.7	2.0	4.2	8.7	13.3			
41	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.7	91	0.1	0.2	0.7	0.7	2.1	4.2	8.8	13.4			
42	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.2	92	0.1	0.2	0.7	0.7	2.1	4.3	8.9	13.5			
43	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7	93	0.1	0.2	0.7	0.7	2.1	4.3	9.0	13.7			
44	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.2	94	0.1	0.2	0.7	0.7	2.1	4.3	9.0	13.8			
45	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6	95	0.1	0.2	0.7	0.7	2.2	4.4	9.1	13.9			
46	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2	96	0.1	0.2	0.7	0.7	2.2	4.4	9.2	14.1			
47	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.7	97	0.1	0.2	0.7	0.7	2.2	4.5	9.3	14.2			
48	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4	98	0.1	0.2	0.7	0.7	2.2	4.5	9.4	14.4			
49	0.1	0.2	0.3	0.7	1.3	3.0	8.5	15.9	99	0.1	0.2	0.6	0.6	2.2	4.6	9.5	14.5			
50	0.1	0.2	0.3	0.7	1.3	3.0	8.3	15.5	100	0.1	0.2	0.6	0.6	2.3	4.6	9.6	14.6			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 79 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ										
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.7	3.8	6.8	9.9	12.3		51	0.1	0.2	0.3	0.7	1.4	3.0	8.0
2	0.1	0.2	0.6	1.6	3.9	7.1	10.7	13.1	52	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.4
3	0.1	0.2	0.6	1.6	4.0	7.4	11.4	14.0	53	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1
4	0.1	0.2	0.5	1.5	4.0	7.7	12.1	14.9	54	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7
5	0.1	0.2	0.5	1.5	3.9	7.9	12.9	15.9	55	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
6	0.1	0.2	0.5	1.4	3.8	8.1	13.6	17.0	56	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1
7	0.1	0.2	0.5	1.4	3.7	8.2	14.4	18.1	57	0.1	0.2	0.4	0.7	1.4	3.0	7.2	12.8
8	0.1	0.2	0.5	1.3	3.6	8.4	15.1	19.2	58	0.1	0.2	0.4	0.7	1.5	3.0	7.1	12.6
9	0.1	0.1	0.4	1.3	3.5	8.5	15.7	20.3	59	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.3
10	0.1	0.1	0.4	1.2	3.4	8.6	16.3	21.4	60	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.1
11	0.1	0.1	0.4	1.2	3.3	8.6	16.8	22.6	61	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.0
12	0.1	0.1	0.4	1.1	3.2	8.5	17.3	23.6	62	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.8
13	0.1	0.1	0.4	1.1	3.1	8.4	17.7	24.6	63	0.1	0.2	0.4	0.8	1.5	3.1	6.9	11.6
14	0.1	0.1	0.4	1.0	3.0	8.1	18.0	25.4	64	0.1	0.2	0.4	0.8	1.5	3.2	6.9	11.5
15	0.1	0.1	0.3	1.0	2.9	7.9	18.3	26.2	65	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.4
16	0.1	0.1	0.3	1.0	2.8	7.6	18.6	26.9	66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.4
17	0.1	0.1	0.3	0.9	2.7	7.4	18.8	27.5	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.3
18	0.1	0.1	0.3	0.9	2.6	7.3	19.0	28.1	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.3
19	0.1	0.1	0.3	0.9	2.5	7.1	18.9	28.5	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.2
20	0.1	0.1	0.3	0.8	2.4	6.9	18.7	29.0	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.2
21	0.1	0.1	0.3	0.8	2.4	6.7	18.7	29.3	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.2
22	0.1	0.1	0.3	0.8	2.3	6.5	17.7	29.6	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
23	0.1	0.1	0.3	0.7	2.2	6.3	17.2	29.6	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
24	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.4	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.3
25	0.1	0.1	0.3	0.7	2.0	5.9	16.4	28.9	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.7	2.0	5.7	16.0	28.0	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.7	1.9	5.5	15.7	27.3	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.7	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.6	5.2	14.9	26.1	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.5	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.0	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.5	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
33	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.0	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.4	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.8	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.4	4.1	12.3	22.2	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
37	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.6	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.4
38	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.5	89	0.1	0.3	0.5	1.0	2.0	4.2	8.6	13.1
40	0.1	0.1	0.3	0.6	1.3	3.6	10.9	20.0	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.3	3.4	10.3	19.0	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
44	0.1	0.2	0.3	0.6	1.3	3.3	9.4	17.9	94	0.1	0.3	0.5	1.1	2.1	4.3	9.1	13.9
45	0.1	0.2	0.3	0.6	1.3	3.2	9.5	17.4	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
46	0.1	0.2	0.3	0.6	1.3	3.2	9.2	17.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.3	14.2
47	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.5	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.5
48	0.1	0.2	0.3	0.6	1.3	3.1	8.7	16.2	98	0.1	0.3	0.5	1.1	2.2	4.5	9.5	14.5
49	0.1	0.2	0.3	0.7	1.3	3.0	8.4	15.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	3.0	8.2	15.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 80 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ							
		63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000		
1	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	60	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
2	C	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
3	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	51	52	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
4	M	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	53	54	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
5	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	55	56	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
6	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	57	58	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
7	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	59	60	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
8	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	61	62	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
9	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	63	64	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
10	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	65	66	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
11	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	67	68	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
12	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	69	70	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
13	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	71	72	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
14	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	73	74	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
15	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	75	76	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
16	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	77	78	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
17	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	79	80	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
18	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	81	82	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
19	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	83	84	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
20	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	85	86	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
21	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	87	88	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
22	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	89	90	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
23	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	91	92	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
24	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	93	94	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
25	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	95	96	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
26	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	97	98	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
27	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	99	100	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
28	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
29	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
30	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
31	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
32	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
33	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
34	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
35	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
36	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
37	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
38	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
39	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
40	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
41	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
42	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
43	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
44	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
45	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
46	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
47	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
48	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
49	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
50	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 81 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.6	3.9	6.9	10.2	12.6	51	0.1	0.2	0.3	0.7	1.4	3.0	7.0	14.5
2	0.1	0.2	0.6	1.6	3.9	7.2	11.0	13.5	52	0.1	0.2	0.3	0.7	1.4	2.9	7.7	14.1
3	0.1	0.2	0.6	1.5	3.9	7.5	11.7	14.4	53	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7
4	0.1	0.2	0.5	1.5	3.9	7.7	12.4	15.3	54	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
5	0.1	0.2	0.5	1.4	3.9	7.9	13.2	16.3	55	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1
6	0.1	0.2	0.5	1.4	3.7	8.1	14.0	17.4	56	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.8
7	0.1	0.2	0.5	1.3	3.6	8.3	14.7	18.6	57	0.1	0.2	0.4	0.7	1.4	3.0	7.1	12.5
8	0.1	0.2	0.4	1.3	3.5	8.4	15.4	19.6	58	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.3
9	0.1	0.1	0.4	1.2	3.4	8.5	16.0	20.8	59	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.1
10	0.1	0.1	0.4	1.2	3.3	8.6	16.5	21.9	60	0.1	0.2	0.4	0.7	1.5	3.1	7.0	11.9
11	0.1	0.1	0.4	1.1	3.2	8.7	17.0	23.0	61	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.8
12	0.1	0.1	0.4	1.1	3.1	8.8	17.4	24.0	62	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.6
13	0.1	0.1	0.4	1.1	3.0	8.9	17.8	24.9	63	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.4
14	0.1	0.1	0.4	1.0	2.9	9.0	18.1	25.7	64	0.1	0.2	0.4	0.7	1.5	3.2	6.8	11.4
15	0.1	0.1	0.3	1.0	2.8	9.1	18.4	26.5	65	0.1	0.2	0.4	0.7	1.6	3.2	6.8	11.3
16	0.1	0.1	0.3	0.9	2.7	9.2	18.6	27.1	66	0.1	0.2	0.4	0.7	1.6	3.3	6.9	11.2
17	0.1	0.1	0.3	0.9	2.6	9.3	18.8	27.6	67	0.1	0.2	0.4	0.7	1.6	3.3	7.0	11.2
18	0.1	0.1	0.3	0.9	2.5	9.4	19.0	28.2	68	0.1	0.2	0.4	0.7	1.6	3.4	7.0	11.1
19	0.1	0.1	0.3	0.8	2.4	9.5	19.2	28.6	69	0.1	0.2	0.4	0.7	1.7	3.4	7.1	11.1
20	0.1	0.1	0.3	0.8	2.3	9.6	19.4	29.0	70	0.1	0.2	0.4	0.7	1.7	3.4	7.2	11.1
21	0.1	0.1	0.3	0.8	2.2	9.7	19.6	29.3	71	0.1	0.2	0.4	0.7	1.7	3.5	7.3	11.2
22	0.1	0.1	0.3	0.7	2.1	9.8	19.8	29.5	72	0.1	0.2	0.4	0.7	1.7	3.5	7.3	11.2
23	0.1	0.1	0.3	0.7	2.0	9.9	20.0	29.7	73	0.1	0.2	0.4	0.7	1.7	3.5	7.4	11.4
24	0.1	0.1	0.3	0.7	1.9	10.0	20.2	30.0	74	0.1	0.2	0.4	0.7	1.7	3.5	7.5	11.5
25	0.1	0.1	0.3	0.7	1.8	10.1	20.4	30.3	75	0.1	0.2	0.4	0.7	1.7	3.6	7.5	11.6
26	0.1	0.1	0.3	0.6	1.7	10.2	20.6	30.6	76	0.1	0.2	0.4	0.7	1.8	3.6	7.6	11.7
27	0.1	0.1	0.3	0.6	1.6	10.3	20.8	30.9	77	0.1	0.2	0.4	0.7	1.8	3.7	7.7	11.8
28	0.1	0.1	0.3	0.6	1.5	10.4	21.0	31.2	78	0.1	0.2	0.4	0.7	1.8	3.7	7.8	11.9
29	0.1	0.1	0.3	0.6	1.4	10.5	21.2	31.5	79	0.1	0.2	0.5	0.7	1.8	3.8	7.9	12.1
30	0.1	0.1	0.3	0.6	1.3	10.6	21.4	31.8	80	0.1	0.2	0.5	0.7	1.9	3.8	8.0	12.3
31	0.1	0.1	0.3	0.6	1.2	10.7	21.6	32.1	81	0.1	0.2	0.5	0.7	1.9	3.9	8.1	12.4
32	0.1	0.1	0.3	0.6	1.1	10.8	21.8	32.4	82	0.1	0.2	0.5	0.7	1.9	3.9	8.2	12.5
33	0.1	0.1	0.3	0.6	1.0	10.9	22.0	32.7	83	0.1	0.2	0.5	0.7	1.9	4.0	8.3	12.6
34	0.1	0.1	0.3	0.6	0.9	11.0	22.2	33.0	84	0.1	0.2	0.5	0.7	2.0	4.0	8.4	12.9
35	0.1	0.1	0.3	0.6	0.8	11.1	22.4	33.3	85	0.1	0.2	0.5	0.7	2.0	4.0	8.5	13.0
36	0.1	0.1	0.3	0.6	0.7	11.2	22.6	33.6	86	0.1	0.2	0.5	0.7	2.0	4.1	8.6	13.1
37	0.1	0.1	0.3	0.6	0.6	11.3	22.8	33.9	87	0.1	0.2	0.5	0.7	2.0	4.2	8.7	13.3
38	0.1	0.1	0.3	0.6	0.5	11.4	23.0	34.2	88	0.1	0.2	0.5	0.7	2.1	4.2	8.8	13.4
39	0.1	0.1	0.3	0.6	0.4	11.5	23.2	34.5	89	0.1	0.2	0.5	0.7	2.1	4.3	8.9	13.5
40	0.1	0.1	0.3	0.6	0.3	11.6	23.4	34.8	90	0.1	0.2	0.5	0.7	2.1	4.3	9.0	13.7
41	0.1	0.1	0.3	0.6	0.2	11.7	23.6	35.1	91	0.1	0.2	0.5	0.7	2.1	4.4	9.1	13.9
42	0.1	0.1	0.3	0.6	0.1	11.8	23.8	35.4	92	0.1	0.2	0.5	0.7	2.1	4.4	9.2	14.1
43	0.1	0.1	0.3	0.6	0.0	11.9	24.0	35.7	93	0.1	0.2	0.5	0.7	2.2	4.4	9.3	14.3
44	0.1	0.1	0.3	0.6	0.0	12.0	24.2	36.0	94	0.1	0.2	0.5	0.7	2.2	4.5	9.4	14.5
45	0.1	0.1	0.3	0.6	0.0	12.1	24.4	36.3	95	0.1	0.2	0.5	0.7	2.2	4.5	9.5	14.7
46	0.1	0.1	0.3	0.6	0.0	12.2	24.6	36.6	96	0.1	0.2	0.5	0.7	2.2	4.6	9.6	14.9
47	0.1	0.1	0.3	0.6	0.0	12.3	24.8	36.9	97	0.1	0.2	0.5	0.7	2.2	4.6	9.7	15.1
48	0.1	0.1	0.3	0.6	0.0	12.4	25.0	37.2	98	0.1	0.2	0.5	0.7	2.2	4.7	9.8	15.3
49	0.1	0.1	0.3	0.6	0.0	12.5	25.2	37.5	99	0.1	0.2	0.5	0.7	2.2	4.7	9.9	15.5
50	0.1	0.2	0.3	0.7	1.3	3.0	8.0	14.9	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 82 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, M7				
	63	125	250	500	1000	2000	4000	8000	10000	14000
1	0.1	0.2	0.6	1.6	3.9	7.0	10.4	12.8	0.1	0.2
2	0.1	0.2	0.6	1.6	3.9	7.3	11.1	13.6	0.1	0.2
3	0.1	0.2	0.5	1.5	3.9	7.5	11.5	14.5	0.1	0.2
4	0.1	0.2	0.5	1.5	3.9	7.8	12.6	15.5	0.1	0.2
5	0.1	0.2	0.5	1.4	3.9	8.0	13.3	16.6	0.1	0.2
6	0.1	0.2	0.5	1.4	3.7	8.1	14.1	17.7	0.1	0.2
7	0.1	0.2	0.5	1.3	3.6	8.3	14.8	18.9	0.1	0.2
8	0.1	0.1	0.4	1.3	3.5	8.4	15.5	19.9	0.1	0.2
9	0.1	0.1	0.4	1.2	3.4	8.5	16.1	21.0	0.1	0.2
10	0.1	0.1	0.4	1.2	3.3	8.5	16.6	22.2	0.1	0.2
11	0.1	0.1	0.4	1.1	3.2	8.5	17.1	23.2	0.1	0.2
12	0.1	0.1	0.4	1.1	3.1	8.4	17.4	24.2	0.1	0.2
13	0.1	0.1	0.4	1.0	3.0	8.1	17.6	25.1	0.1	0.2
14	0.1	0.1	0.3	1.0	2.9	7.8	18.1	26.9	0.1	0.2
15	0.1	0.1	0.3	1.0	2.8	7.6	18.4	28.6	0.1	0.2
16	0.1	0.1	0.3	0.9	2.7	7.4	18.6	29.3	0.1	0.2
17	0.1	0.1	0.3	0.9	2.6	7.2	18.8	29.7	0.1	0.2
18	0.1	0.1	0.3	0.9	2.5	7.1	18.8	29.7	0.1	0.2
19	0.1	0.1	0.3	0.8	2.4	6.9	18.6	29.6	0.1	0.2
20	0.1	0.1	0.3	0.8	2.3	6.7	18.2	29.0	0.1	0.2
21	0.1	0.1	0.3	0.8	2.3	6.5	17.6	29.3	0.1	0.2
22	0.1	0.1	0.3	0.7	2.2	6.3	17.1	29.4	0.1	0.2
23	0.1	0.1	0.3	0.7	2.1	6.1	16.7	29.2	0.1	0.2
24	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.7	0.1	0.2
25	0.1	0.1	0.3	0.7	2.0	5.7	15.9	27.9	0.1	0.2
26	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.2	0.1	0.2
27	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.5	0.1	0.2
28	0.1	0.1	0.3	0.6	1.7	5.2	14.8	25.9	0.1	0.2
29	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.3	0.1	0.2
30	0.1	0.1	0.3	0.6	1.6	4.8	14.1	24.8	0.1	0.2
31	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.3	0.1	0.2
32	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.8	0.1	0.2
33	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.2	0.1	0.2
34	0.1	0.1	0.3	0.6	1.4	4.3	12.5	22.6	0.1	0.2
35	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.0	0.1	0.2
36	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.4	0.1	0.2
37	0.1	0.1	0.3	0.6	1.4	3.8	11.5	20.9	0.1	0.2
38	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.3	0.1	0.2
39	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.8	0.1	0.2
40	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.3	0.1	0.2
41	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8	0.1	0.2
42	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3	0.1	0.2
43	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.7	0.1	0.2
44	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.2	0.1	0.2
45	0.1	0.2	0.3	0.6	1.3	3.1	9.1	16.6	0.1	0.2
46	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4	0.1	0.2
47	0.1	0.2	0.3	0.6	1.3	3.0	8.6	16.0	0.1	0.2
48	0.1	0.2	0.3	0.6	1.3	3.0	8.3	15.6	0.1	0.2
49	0.1	0.2	0.3	0.7	1.3	3.0	8.1	15.1	0.1	0.2
50	0.1	0.2	0.3	0.7	1.3	3.0	7.9	14.7	0.1	0.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 83 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ											
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000	
1	0.1	0.2	0.6	1.6	3.9	7.1	10.5	12.9	51	0.1	0.2	0.3	0.7	1.4	2.9	7.7	14.1	T	60	0.1	0.2	0.4	0.7	1.5	3.0	6.9	12.1
2	0.1	0.2	0.6	1.5	3.9	7.3	11.3	13.8	52	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7	E	61	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.9
3	0.1	0.2	0.5	1.5	3.9	7.6	12.0	14.7	53	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4	M	62	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.7
4	0.1	0.2	0.5	1.5	3.9	7.8	12.7	15.7	54	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1	P	63	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.5
5	0.1	0.2	0.5	1.4	3.8	8.0	13.5	16.8	55	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.8	E	64	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.3
6	0.1	0.2	0.5	1.4	3.7	8.1	14.3	17.9	56	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.5	R	65	0.1	0.2	0.4	0.7	1.5	3.0	6.9	12.1
7	0.1	0.2	0.5	1.3	3.5	8.3	15.0	19.0	57	0.1	0.2	0.4	0.7	1.4	3.0	7.0	12.3	A	66	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.9
8	0.1	0.1	0.4	1.1	3.4	8.4	15.6	20.1	58	0.1	0.2	0.4	0.7	1.4	3.0	6.9	12.1	U	67	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.7
9	0.1	0.1	0.4	1.2	3.3	8.5	16.2	21.2	59	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.9	R	68	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.5
10	0.1	0.1	0.4	1.2	3.2	8.5	16.7	22.4	60	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.7	E	69	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.3
11	0.1	0.1	0.4	1.1	3.2	8.5	17.1	23.4	61	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.5	M	70	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.1
12	0.1	0.1	0.4	1.1	3.1	8.3	17.5	24.4	62	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.4	P	71	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.1
13	0.1	0.1	0.3	1.0	3.0	8.0	17.9	25.2	63	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.3	E	72	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.1
14	0.1	0.1	0.3	1.0	2.9	7.8	18.2	26.0	64	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.2	R	73	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.1
15	0.1	0.1	0.3	1.0	2.9	7.8	18.2	26.7	65	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.2	A	74	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.1
16	0.1	0.1	0.3	0.9	2.7	7.2	18.6	27.2	66	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.2	U	75	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
17	0.1	0.1	0.3	0.9	2.6	7.1	18.7	28.0	67	0.1	0.2	0.4	0.8	1.5	3.3	6.9	11.1	R	76	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
18	0.1	0.1	0.3	0.8	2.5	7.0	19.7	28.3	68	0.1	0.2	0.4	0.8	1.5	3.4	7.0	11.1	E	77	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
19	0.1	0.1	0.3	0.8	2.4	6.8	19.5	28.7	69	0.1	0.2	0.4	0.8	1.5	3.4	7.0	11.1	M	78	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
20	0.1	0.1	0.3	0.8	2.3	6.6	19.0	29.0	70	0.1	0.2	0.4	0.8	1.5	3.4	7.1	11.1	P	79	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
21	0.1	0.1	0.3	0.7	2.2	6.4	17.4	29.3	71	0.1	0.2	0.4	0.8	1.5	3.4	7.2	11.1	E	80	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
22	0.1	0.1	0.3	0.7	2.1	6.2	17.0	29.3	72	0.1	0.2	0.4	0.8	1.5	3.5	7.3	11.1	R	81	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
23	0.1	0.1	0.3	0.7	2.1	6.0	16.5	29.0	73	0.1	0.2	0.4	0.8	1.5	3.5	7.3	11.2	A	82	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
24	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.4	74	0.1	0.2	0.4	0.8	1.5	3.5	7.3	11.2	U	83	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
25	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.6	75	0.1	0.2	0.4	0.8	1.5	3.6	7.4	11.4	R	84	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
26	0.1	0.1	0.3	0.6	1.8	5.5	15.5	26.4	76	0.1	0.2	0.4	0.8	1.5	3.6	7.4	11.4	E	85	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
27	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2	77	0.1	0.2	0.4	0.8	1.5	3.6	7.4	11.4	M	86	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
28	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.6	78	0.1	0.2	0.4	0.8	1.5	3.7	7.5	11.5	P	87	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
29	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.1	79	0.1	0.2	0.4	0.8	1.5	3.7	7.5	11.5	E	88	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
30	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.6	80	0.1	0.2	0.4	0.8	1.5	3.8	7.6	11.6	R	89	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
31	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.1	81	0.1	0.2	0.4	0.8	1.5	3.8	7.6	11.6	A	90	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
32	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.5	82	0.1	0.2	0.4	0.8	1.5	3.8	7.6	11.6	U	91	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
33	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.9	83	0.1	0.2	0.4	0.8	1.5	3.9	7.7	11.7	R	92	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
34	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4	84	0.1	0.2	0.4	0.8	1.5	3.9	7.7	11.7	E	93	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
35	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.8	85	0.1	0.2	0.4	0.8	1.5	4.0	7.8	11.8	M	94	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
36	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.2	86	0.1	0.2	0.4	0.8	1.5	4.0	7.8	11.8	P	95	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
37	0.1	0.1	0.3	0.6	1.3	3.8	11.4	20.6	87	0.1	0.2	0.4	0.8	1.5	4.0	7.8	11.8	E	96	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
38	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.1	88	0.1	0.2	0.4	0.8	1.5	4.1	7.9	11.9	R	97	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
39	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.6	89	0.1	0.2	0.4	0.8	1.5	4.1	7.9	11.9	A	98	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
40	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.1	90	0.1	0.2	0.4	0.8	1.5	4.2	8.0	12.0	U	99	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
41	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6	91	0.1	0.2	0.4	0.8	1.5	4.2	8.0	12.0	R	100	0.1	0.2	0.4	0.8	1.7	3.4	7.0	11.1
42	0.1	0.1	0.3	0.6	1.3	3.3	9.8	18.1	92	0.1	0.2	0.4	0.8	1.5	4.3	8.1	12.1	E									
43	0.1	0.1	0.3	0.6	1.3	3.2	9.5	17.5	93	0.1	0.2	0.4	0.8	1.5	4.3	8.1	12.1	M									
44	0.1	0.1	0.2	0.5	1.2	3.2	9.2	17.0	94	0.1	0.2	0.4	0.8	1.5	4.3	8.1	12.1	P									
45	0.1	0.1	0.2	0.5	1.2	3.1	9.0	16.6	95	0.1	0.2	0.4	0.8	1.5	4.4	8.2	12.2	E									
46	0.1	0.1	0.2	0.5	1.2	3.0	8.7	16.2	96	0.1	0.2	0.4	0.8	1.5	4.4	8.2	12.2	R									
47	0.1	0.1	0.2	0.5	1.2	3.0	8.5	15.8	97	0.1	0.2	0.4	0.8	1.5	4.5	8.3	12.3	A									
48	0.1	0.1	0.2	0.5	1.2	3.0	8.2	15.4	98	0.1	0.2	0.4	0.8	1.5	4.5	8.3	12.3	U									
49	0.1	0.1	0.2	0.5	1.2	3.0	8.0	14.9	99	0.1	0.2	0.4	0.8	1.5	4.6	8.4	12.4	R									
50	0.1	0.1	0.2	0.5	1.2	2.9	7.8	14.5	100	0.1	0.2	0.4	0.8	1.5	4.6	8.4	12.4	E									

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND 84 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ										BAND CENTER FREQUENCY, MZ									
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	0.1	0.2	0.6	1.6	3.9	7.1	10.7	13.1	51	0.1	0.2	0.3	0.7	1.4	2.9	7.6	13.9			
2	0.1	0.2	0.6	1.5	3.4	7.4	11.4	14.0	52	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.6			
3	0.1	0.2	0.5	1.5	3.9	7.6	12.1	14.9	53	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.3			
4	0.1	0.2	0.5	1.4	3.9	7.8	12.9	15.9	54	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.9			
5	0.1	0.2	0.5	1.4	3.8	8.0	13.6	17.0	55	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.7			
6	0.1	0.2	0.5	1.3	3.6	8.2	14.4	18.1	56	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.4			
7	0.1	0.2	0.4	1.3	3.5	8.3	15.1	19.2	57	0.1	0.2	0.4	0.7	1.4	3.0	6.9	12.2			
8	0.1	0.1	0.4	1.2	3.4	8.4	15.7	20.3	58	0.1	0.2	0.4	0.7	1.5	3.0	6.9	12.0			
9	0.1	0.1	0.4	1.2	3.3	8.5	16.2	21.5	59	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.8			
10	0.1	0.1	0.4	1.1	3.2	8.5	16.7	22.6	60	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.6			
11	0.1	0.1	0.4	1.1	3.1	8.4	17.2	23.6	61	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.4			
12	0.1	0.1	0.4	1.1	3.0	8.2	17.5	24.5	62	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.3			
13	0.1	0.1	0.3	1.0	2.9	7.9	17.9	25.4	63	0.1	0.2	0.4	0.6	1.5	3.1	6.8	11.2			
14	0.1	0.1	0.3	1.0	2.8	7.7	18.2	26.1	64	0.1	0.2	0.4	0.6	1.5	3.2	6.8	11.2			
15	0.1	0.1	0.3	0.9	2.7	7.5	18.4	26.7	65	0.1	0.2	0.4	0.6	1.6	3.2	6.8	11.2			
16	0.1	0.1	0.3	0.9	2.6	7.3	18.6	27.3	66	0.1	0.2	0.4	0.6	1.6	3.2	6.8	11.1			
17	0.1	0.1	0.3	0.9	2.5	7.1	18.7	27.8	67	0.1	0.2	0.4	0.6	1.6	3.3	6.9	11.0			
18	0.1	0.1	0.3	0.8	2.5	6.9	18.8	28.3	68	0.1	0.2	0.4	0.6	1.6	3.3	7.0	11.0			
19	0.1	0.1	0.3	0.8	2.4	6.7	18.3	28.7	69	0.1	0.2	0.4	0.6	1.6	3.4	7.0	11.0			
20	0.1	0.1	0.3	0.8	2.3	6.5	17.8	29.0	70	0.1	0.2	0.4	0.6	1.7	3.4	7.1	11.0			
21	0.1	0.1	0.3	0.7	2.2	6.3	17.2	29.2	71	0.1	0.2	0.4	0.6	1.7	3.4	7.2	11.0			
22	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.1	72	0.1	0.2	0.4	0.6	1.7	3.5	7.3	11.1			
23	0.1	0.1	0.3	0.7	2.0	5.9	16.4	28.8	73	0.1	0.2	0.4	0.6	1.7	3.5	7.3	11.3			
24	0.1	0.1	0.3	0.7	2.0	5.7	16.0	28.4	74	0.1	0.2	0.4	0.6	1.7	3.5	7.4	11.4			
25	0.1	0.1	0.3	0.6	1.9	5.6	15.7	27.9	75	0.1	0.2	0.4	0.6	1.7	3.6	7.5	11.5			
26	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.6	76	0.1	0.2	0.4	0.6	1.8	3.6	7.6	11.6			
27	0.1	0.1	0.3	0.6	1.8	5.2	14.9	26.0	77	0.1	0.2	0.4	0.6	1.8	3.6	7.6	11.7			
28	0.1	0.1	0.3	0.6	1.7	5.1	14.5	25.4	78	0.1	0.2	0.4	0.6	1.8	3.7	7.7	11.8			
29	0.1	0.1	0.3	0.6	1.6	4.9	14.1	24.9	79	0.1	0.2	0.4	0.6	1.8	3.7	7.8	11.9			
30	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.4	80	0.1	0.2	0.5	0.6	1.8	3.8	7.9	12.1			
31	0.1	0.1	0.3	0.6	1.5	4.6	13.2	23.9	81	0.1	0.2	0.5	0.6	1.9	3.8	7.9	12.2			
32	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.3	82	0.1	0.2	0.5	0.6	1.9	3.8	8.0	12.3			
33	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7	83	0.1	0.2	0.5	0.6	1.9	3.9	8.1	12.4			
34	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1	84	0.1	0.2	0.5	0.6	1.9	3.9	8.2	12.5			
35	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6			
36	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8			
37	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.4	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9			
38	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.9	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0			
39	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.3	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1			
40	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.8	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3			
41	0.1	0.1	0.3	0.6	1.3	3.3	9.7	18.4	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4			
42	0.1	0.1	0.3	0.6	1.3	3.3	9.7	18.4	92	0.1	0.3	0.5	1.0	2.1	4.2	8.9	13.5			
43	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.3	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7			
44	0.1	0.2	0.3	0.6	1.3	3.1	9.1	16.8	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8			
45	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9			
46	0.1	0.2	0.3	0.6	1.3	3.0	8.6	16.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1			
47	0.1	0.2	0.3	0.6	1.3	3.0	8.4	15.6	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2			
48	0.1	0.2	0.3	0.6	1.3	3.0	8.1	15.2	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4			
49	0.1	0.2	0.3	0.6	1.3	3.0	7.9	14.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5			
50	0.1	0.2	0.3	0.7	1.3	2.9	7.8	14.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 85 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ								
	63	125	250	500	1000	2000	4000	8000	63	125		250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.6	3.9	7.1	10.8	13.3	51	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7								
2	0.1	0.2	0.5	1.5	3.9	7.4	11.6	14.2	52	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4								
3	0.1	0.2	0.5	1.5	3.9	7.7	12.3	15.1	53	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1								
4	0.1	0.2	0.5	1.4	3.8	7.8	13.0	16.1	54	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.8								
5	0.1	0.2	0.5	1.4	3.7	8.0	13.8	17.2	55	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.5								
6	0.1	0.2	0.5	1.3	3.6	8.2	14.5	18.3	56	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.3								
7	0.1	0.2	0.4	1.3	3.5	8.3	15.2	19.4	57	0.1	0.2	0.4	0.7	1.4	3.0	6.9	12.1								
8	0.1	0.1	0.4	1.2	3.4	8.4	15.8	20.5	58	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.9								
9	0.1	0.1	0.4	1.2	3.3	8.5	16.3	21.7	59	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.7								
10	0.1	0.1	0.4	1.1	3.2	8.5	16.8	22.8	60	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.5								
11	0.1	0.1	0.4	1.1	3.1	8.3	17.2	23.8	61	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.3								
12	0.1	0.1	0.4	1.1	3.0	8.1	17.6	24.7	62	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2								
13	0.1	0.1	0.3	1.0	2.9	7.8	17.9	25.5	63	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.2								
14	0.1	0.1	0.3	1.0	2.8	7.6	18.2	26.2	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	11.2								
15	0.1	0.1	0.3	0.9	2.7	7.4	18.4	26.8	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.1								
16	0.1	0.1	0.3	0.9	2.6	7.2	18.6	27.4	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0								
17	0.1	0.1	0.3	0.9	2.5	7.0	18.8	27.9	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.0								
18	0.1	0.1	0.3	0.8	2.4	6.9	18.5	28.3	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.0								
19	0.1	0.1	0.3	0.8	2.3	6.7	18.1	28.7	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.0								
20	0.1	0.1	0.3	0.8	2.3	6.5	17.5	29.0	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0								
21	0.1	0.1	0.3	0.7	2.2	6.3	17.1	29.1	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0								
22	0.1	0.1	0.3	0.7	2.1	6.1	16.6	29.0	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1								
23	0.1	0.1	0.3	0.7	2.0	5.9	16.2	28.6	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3								
24	0.1	0.1	0.3	0.7	2.0	5.7	15.9	27.8	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4								
25	0.1	0.1	0.3	0.6	1.9	5.5	15.5	27.0	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5								
26	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.4	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6								
27	0.1	0.1	0.3	0.6	1.7	5.2	14.8	25.8	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7								
28	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.2	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8								
29	0.1	0.1	0.3	0.6	1.6	4.8	14.0	24.7	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9								
30	0.1	0.1	0.3	0.6	1.6	4.6	13.6	24.2	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1								
31	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.6	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2								
32	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.0	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3								
33	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.5	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4								
34	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5								
35	0.1	0.1	0.3	0.6	1.4	3.9	11.8	21.3	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6								
36	0.1	0.1	0.3	0.6	1.3	3.8	11.4	20.7	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8								
37	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.2	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9								
38	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.6	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0								
39	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.1	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1								
40	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3								
41	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.1	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4								
42	0.1	0.1	0.3	0.6	1.3	3.2	9.6	17.6	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5								
43	0.1	0.2	0.3	0.6	1.3	3.1	9.3	17.1	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7								
44	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.6	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8								
45	0.1	0.2	0.3	0.6	1.3	3.0	8.7	16.2	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9								
46	0.1	0.2	0.3	0.6	1.3	3.0	8.5	15.8	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1								
47	0.1	0.2	0.3	0.6	1.3	3.0	8.3	15.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2								
48	0.1	0.2	0.3	0.6	1.3	3.0	8.1	15.0	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4								
49	0.1	0.2	0.3	0.7	1.3	2.9	7.9	14.6	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5								
50	0.1	0.2	0.3	0.7	1.3	2.9	7.7	14.1	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6								

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB REF 1000 FT FOR FULL OCTAVE BANDS
OF HTISE AS A FUNCTION OF TEMPERATURE FOR 86 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, M7										BAND CENTER FREQUENCY, M7									
		63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	T	0.1	0.2	0.6	1.5	3.9	7.2	10.9	13.4	51	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.6			
2	E	0.1	0.2	0.5	1.5	3.9	7.5	11.1	14.3	52	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.3			
3	H	0.1	0.2	0.5	1.5	3.9	7.7	12.4	15.3	53	0.1	0.2	0.3	0.7	1.4	2.9	7.2	13.0			
4	A	0.1	0.2	0.5	1.4	3.8	7.9	13.2	16.3	54	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.7			
5	T	0.1	0.2	0.5	1.4	3.7	8.0	13.9	17.5	55	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.4			
6	E	0.1	0.2	0.5	1.3	3.5	8.2	14.7	18.5	56	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.2			
7	H	0.1	0.1	0.4	1.3	3.4	8.3	15.3	19.6	57	0.1	0.2	0.4	0.7	1.4	3.0	6.9	11.9			
8	A	0.1	0.1	0.4	1.2	3.3	8.4	15.9	20.8	58	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.6			
9	T	0.1	0.1	0.4	1.2	3.2	8.5	16.4	21.4	59	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.6			
10	E	0.1	0.1	0.4	1.1	3.2	8.4	16.9	23.0	60	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.4			
11	H	0.1	0.1	0.4	1.1	3.1	8.3	17.3	23.9	61	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.4			
12	A	0.1	0.1	0.4	1.0	3.0	8.0	17.6	24.8	62	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2			
13	T	0.1	0.1	0.3	1.0	2.9	7.7	17.9	25.6	63	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2			
14	E	0.1	0.1	0.3	1.0	2.8	7.5	18.2	26.3	64	0.1	0.2	0.4	0.7	1.5	3.2	6.7	11.1			
15	H	0.1	0.1	0.3	0.9	2.7	7.3	18.4	26.9	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0			
16	A	0.1	0.1	0.3	0.9	2.6	7.1	18.6	27.4	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0			
17	T	0.1	0.1	0.3	0.9	2.5	7.0	18.8	27.9	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.9			
18	E	0.1	0.1	0.3	0.8	2.4	6.8	18.4	28.4	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.9			
19	H	0.1	0.1	0.3	0.8	2.3	6.6	17.9	28.7	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.9			
20	A	0.1	0.1	0.3	0.7	2.2	6.4	17.4	29.0	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9			
21	T	0.1	0.1	0.3	0.7	2.1	6.2	16.9	29.0	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0			
22	E	0.1	0.1	0.3	0.7	2.1	6.0	16.5	28.8	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1			
23	H	0.1	0.1	0.3	0.7	2.0	5.8	16.1	28.3	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3			
24	A	0.1	0.1	0.3	0.7	1.9	5.6	15.7	27.5	74	0.1	0.2	0.4	0.8	1.7	3.5	7.4	11.4			
25	T	0.1	0.1	0.3	0.6	1.9	5.4	15.4	26.4	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5			
26	E	0.1	0.1	0.3	0.6	1.8	5.1	15.0	26.1	76	0.1	0.2	0.4	0.9	1.9	3.6	7.6	11.6			
27	H	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.5	77	0.1	0.2	0.4	0.9	1.9	3.6	7.6	11.7			
28	A	0.1	0.1	0.3	0.6	1.7	4.9	14.2	25.0	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8			
29	T	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.5	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9			
30	E	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.0	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1			
31	H	0.1	0.1	0.3	0.6	1.5	4.5	13.0	23.4	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3			
32	A	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4			
33	T	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5			
34	E	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.6	84	0.1	0.2	0.5	0.9	1.9	3.9	8.3	12.6			
35	H	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.1	85	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9			
36	A	0.1	0.1	0.3	0.6	1.3	3.8	11.3	20.5	86	0.1	0.2	0.5	1.0	2.0	4.0	8.5	13.0			
37	T	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.9	87	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1			
38	E	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	88	0.1	0.2	0.5	1.0	2.0	4.1	8.7	13.3			
39	H	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.9	89	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4			
40	A	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.4	90	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5			
41	T	0.1	0.1	0.3	0.6	1.3	3.3	9.8	17.9	91	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7			
42	E	0.1	0.1	0.3	0.6	1.3	3.2	9.5	17.4	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8			
43	H	0.1	0.2	0.3	0.6	1.3	3.1	9.2	16.9	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7			
44	A	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.4	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8			
45	T	0.1	0.2	0.3	0.6	1.3	3.0	8.6	16.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9			
46	E	0.1	0.2	0.3	0.6	1.3	3.0	8.4	15.7	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1			
47	H	0.1	0.2	0.3	0.6	1.3	2.9	8.2	15.2	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2			
48	A	0.1	0.2	0.3	0.6	1.3	2.9	8.0	14.8	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4			
49	T	0.1	0.2	0.3	0.7	1.3	2.9	7.8	14.4	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5			
50	E	0.1	0.2	0.3	0.7	1.3	2.9	7.6	14.0	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 87 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.5	3.9	7.2	11.1	13.6	Y 10	51	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
2	0.1	0.2	0.5	1.5	3.9	7.5	11.8	14.5	Y 11	52	0.1	0.2	0.3	0.7	1.4	2.9	7.2	13.1
3	0.1	0.2	0.5	1.4	3.9	7.7	12.5	15.5	Y 12	53	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.8
4	0.1	0.2	0.5	1.4	3.9	7.9	13.3	16.5	Y 13	54	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.5
5	0.1	0.2	0.5	1.3	3.6	8.1	14.1	17.7	Y 14	55	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.3
6	0.1	0.2	0.4	1.3	3.5	8.2	14.8	18.7	Y 15	56	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.0
7	0.1	0.1	0.4	1.2	3.4	8.3	15.4	19.4	Y 16	57	0.1	0.2	0.4	0.7	1.4	3.0	6.8	11.8
8	0.1	0.1	0.4	1.2	3.3	8.4	16.0	21.0	Y 17	58	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.7
9	0.1	0.1	0.4	1.2	3.2	8.4	16.5	22.1	Y 18	59	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.5
10	0.1	0.1	0.4	1.1	3.1	8.4	16.9	23.2	Y 19	60	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.3
11	0.1	0.1	0.4	1.1	3.0	8.2	17.3	24.1	Y 20	61	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2
12	0.1	0.1	0.3	1.0	2.9	7.9	17.7	24.9	Y 21	62	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.1
13	0.1	0.1	0.3	1.0	2.8	7.7	18.0	25.7	Y 22	63	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.1
14	0.1	0.1	0.3	0.9	2.7	7.5	18.2	26.4	Y 23	64	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.1
15	0.1	0.1	0.3	0.9	2.6	7.3	18.4	27.0	Y 24	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0
16	0.1	0.1	0.3	0.9	2.5	7.1	18.6	27.5	Y 25	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9
17	0.1	0.1	0.3	0.8	2.4	6.9	18.5	28.0	Y 26	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.9
18	0.1	0.1	0.3	0.8	2.4	6.7	18.2	28.4	Y 27	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.9
19	0.1	0.1	0.3	0.8	2.3	6.5	17.8	28.7	Y 28	69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	10.9
20	0.1	0.1	0.3	0.7	2.2	6.3	17.2	29.0	Y 29	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
21	0.1	0.1	0.3	0.7	2.1	6.1	16.7	29.3	Y 30	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
22	0.1	0.1	0.3	0.7	2.0	5.9	16.3	29.7	Y 31	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
23	0.1	0.1	0.3	0.7	2.0	5.7	15.9	29.9	Y 32	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
24	0.1	0.1	0.3	0.6	1.9	5.5	15.6	29.9	Y 33	74	0.1	0.2	0.4	0.8	1.7	3.5	7.4	11.4
25	0.1	0.1	0.3	0.6	1.8	5.4	15.3	29.5	Y 34	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.6	1.8	5.2	14.9	29.4	Y 35	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.6	1.7	5.0	14.5	29.3	Y 36	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.6	1.6	4.9	14.1	29.4	Y 37	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.6	4.7	13.7	29.3	Y 38	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.5	4.5	13.3	29.7	Y 39	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.6	1.5	4.4	12.9	29.9	Y 40	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	0.1	0.1	0.3	0.6	1.4	4.3	12.5	29.6	Y 41	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3
33	0.1	0.1	0.3	0.6	1.4	4.1	12.2	29.0	Y 42	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.4	4.0	11.8	29.4	Y 43	84	0.1	0.2	0.5	0.9	1.9	4.0	8.2	12.5
35	0.1	0.1	0.3	0.6	1.3	3.8	11.5	29.8	Y 44	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.3	3.7	11.2	29.3	Y 45	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
37	0.1	0.1	0.3	0.6	1.3	3.6	10.8	29.7	Y 46	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.3	3.5	10.5	29.2	Y 47	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.3	3.4	10.2	28.7	Y 48	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.3	3.3	9.9	28.2	Y 49	90	0.1	0.2	0.5	1.0	2.0	4.1	8.7	13.3
41	0.1	0.1	0.3	0.6	1.3	3.2	9.6	27.7	Y 50	91	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.3	3.2	9.3	27.2	Y 51	92	0.1	0.3	0.5	1.0	2.1	4.2	8.9	13.5
43	0.1	0.2	0.3	0.6	1.3	3.1	9.1	26.7	Y 52	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.3	3.0	8.8	26.3	Y 53	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.3	3.0	8.5	25.9	Y 54	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.3	3.0	8.3	25.5	Y 55	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.3	2.9	8.1	25.0	Y 56	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.3	2.9	7.9	24.6	Y 57	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.3	2.9	7.7	24.2	Y 58	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	2.9	7.5	23.8	Y 59	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE AND PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	63	125	250	500	1000	63	125	250	500	1000
1	0.1	0.2	0.6	1.5	3.9	1.3	11.7	13.8	51	0.1	0.2	0.3	0.7	1.4	2.9
2	0.1	0.2	0.5	1.5	3.9	1.5	11.9	14.7	52	0.1	0.2	0.3	0.7	1.4	2.8
3	0.1	0.2	0.5	1.4	3.8	1.7	12.7	15.7	53	0.1	0.2	0.3	0.7	1.4	2.8
4	0.1	0.2	0.5	1.4	3.7	1.9	13.4	16.8	54	0.1	0.2	0.3	0.7	1.4	2.9
5	0.1	0.2	0.5	1.3	3.6	2.1	14.2	17.9	55	0.1	0.2	0.3	0.7	1.4	2.9
6	0.1	0.2	0.4	1.3	3.5	2.2	14.9	18.9	56	0.1	0.2	0.3	0.7	1.4	2.9
7	0.1	0.1	0.4	1.2	3.4	2.3	15.5	19.1	57	0.1	0.2	0.4	0.7	1.4	3.0
8	0.1	0.1	0.4	1.2	3.3	2.4	16.1	20.2	58	0.1	0.2	0.4	0.7	1.5	3.0
9	0.1	0.1	0.4	1.1	3.2	2.5	16.6	20.3	59	0.1	0.2	0.4	0.7	1.5	3.0
10	0.1	0.1	0.4	1.1	3.1	2.6	17.0	20.3	60	0.1	0.2	0.4	0.7	1.5	3.1
11	0.1	0.1	0.4	1.1	3.0	2.7	17.4	20.2	61	0.1	0.2	0.4	0.7	1.5	3.1
12	0.1	0.1	0.3	1.0	2.9	2.8	17.7	20.1	62	0.1	0.2	0.4	0.7	1.5	3.1
13	0.1	0.1	0.3	1.0	2.8	2.9	18.0	20.0	63	0.1	0.2	0.4	0.7	1.5	3.1
14	0.1	0.1	0.3	0.9	2.7	3.0	18.2	20.0	64	0.1	0.2	0.4	0.7	1.5	3.2
15	0.1	0.1	0.3	0.9	2.6	3.1	18.4	20.0	65	0.1	0.2	0.4	0.7	1.5	3.2
16	0.1	0.1	0.3	0.9	2.5	3.2	18.5	20.0	66	0.1	0.2	0.4	0.7	1.5	3.2
17	0.1	0.1	0.3	0.8	2.4	3.3	18.7	20.0	67	0.1	0.2	0.4	0.7	1.5	3.3
18	0.1	0.1	0.3	0.8	2.3	3.4	18.9	20.0	68	0.1	0.2	0.4	0.7	1.5	3.3
19	0.1	0.1	0.3	0.7	2.2	3.5	19.0	20.0	69	0.1	0.2	0.4	0.7	1.5	3.4
20	0.1	0.1	0.3	0.7	2.1	3.6	19.1	20.0	70	0.1	0.2	0.4	0.7	1.5	3.4
21	0.1	0.1	0.3	0.7	2.0	3.7	19.2	20.0	71	0.1	0.2	0.4	0.7	1.5	3.4
22	0.1	0.1	0.3	0.7	1.9	3.8	19.3	20.0	72	0.1	0.2	0.4	0.7	1.5	3.5
23	0.1	0.1	0.3	0.6	1.8	3.9	19.4	20.0	73	0.1	0.2	0.4	0.7	1.5	3.5
24	0.1	0.1	0.3	0.6	1.7	4.0	19.5	20.0	74	0.1	0.2	0.4	0.7	1.5	3.5
25	0.1	0.1	0.3	0.6	1.6	4.1	19.6	20.0	75	0.1	0.2	0.4	0.7	1.5	3.6
26	0.1	0.1	0.3	0.6	1.5	4.2	19.7	20.0	76	0.1	0.2	0.4	0.7	1.5	3.6
27	0.1	0.1	0.3	0.6	1.4	4.3	19.8	20.0	77	0.1	0.2	0.4	0.7	1.5	3.6
28	0.1	0.1	0.3	0.6	1.3	4.4	19.9	20.0	78	0.1	0.2	0.4	0.7	1.5	3.7
29	0.1	0.1	0.3	0.6	1.2	4.5	20.0	20.0	79	0.1	0.2	0.4	0.7	1.5	3.7
30	0.1	0.1	0.3	0.6	1.1	4.6	20.1	20.0	80	0.1	0.2	0.4	0.7	1.5	3.8
31	0.1	0.1	0.3	0.6	1.0	4.7	20.2	20.0	81	0.1	0.2	0.4	0.7	1.5	3.8
32	0.1	0.1	0.3	0.6	0.9	4.8	20.3	20.0	82	0.1	0.2	0.4	0.7	1.5	3.9
33	0.1	0.1	0.3	0.6	0.8	4.9	20.4	20.0	83	0.1	0.2	0.4	0.7	1.5	3.9
34	0.1	0.1	0.3	0.6	0.7	5.0	20.5	20.0	84	0.1	0.2	0.4	0.7	1.5	4.0
35	0.1	0.1	0.3	0.6	0.6	5.1	20.6	20.0	85	0.1	0.2	0.4	0.7	1.5	4.0
36	0.1	0.1	0.3	0.6	0.5	5.2	20.7	20.0	86	0.1	0.2	0.4	0.7	1.5	4.0
37	0.1	0.1	0.3	0.6	0.4	5.3	20.8	20.0	87	0.1	0.2	0.4	0.7	1.5	4.0
38	0.1	0.1	0.3	0.6	0.3	5.4	20.9	20.0	88	0.1	0.2	0.4	0.7	1.5	4.1
39	0.1	0.1	0.3	0.6	0.2	5.5	21.0	20.0	89	0.1	0.2	0.4	0.7	1.5	4.1
40	0.1	0.1	0.3	0.6	0.1	5.6	21.1	20.0	90	0.1	0.2	0.4	0.7	1.5	4.2
41	0.1	0.1	0.3	0.6	0.1	5.7	21.2	20.0	91	0.1	0.2	0.4	0.7	1.5	4.2
42	0.1	0.1	0.3	0.6	0.1	5.8	21.3	20.0	92	0.1	0.2	0.4	0.7	1.5	4.3
43	0.1	0.1	0.3	0.6	0.1	5.9	21.4	20.0	93	0.1	0.2	0.4	0.7	1.5	4.3
44	0.1	0.1	0.3	0.6	0.1	6.0	21.5	20.0	94	0.1	0.2	0.4	0.7	1.5	4.3
45	0.1	0.1	0.3	0.6	0.1	6.1	21.6	20.0	95	0.1	0.2	0.4	0.7	1.5	4.4
46	0.1	0.1	0.3	0.6	0.1	6.2	21.7	20.0	96	0.1	0.2	0.4	0.7	1.5	4.4
47	0.1	0.1	0.3	0.6	0.1	6.3	21.8	20.0	97	0.1	0.2	0.4	0.7	1.5	4.5
48	0.1	0.1	0.3	0.6	0.1	6.4	21.9	20.0	98	0.1	0.2	0.4	0.7	1.5	4.5
49	0.1	0.1	0.3	0.6	0.1	6.5	22.0	20.0	99	0.1	0.2	0.4	0.7	1.5	4.6
50	0.1	0.1	0.3	0.6	0.1	6.6	22.1	20.0	100	0.1	0.2	0.4	0.7	1.5	4.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 89 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	4000	8000
1	0.1	0.2	0.5	1.5	3.9	7.3	11.4	13.9	7.2	13.1
2	0.1	0.2	0.5	1.5	3.9	7.6	12.1	14.9	7.1	12.8
3	0.1	0.2	0.5	1.4	3.8	7.8	12.8	15.9	7.0	12.5
4	0.1	0.2	0.5	1.4	3.7	7.9	13.6	17.0	6.9	12.3
5	0.1	0.2	0.5	1.3	3.6	8.1	14.3	18.1	6.8	12.0
6	0.1	0.2	0.5	1.3	3.4	8.2	15.0	19.2	6.8	11.8
7	0.1	0.1	0.4	1.2	3.3	8.3	15.6	20.3	6.7	11.6
8	0.1	0.1	0.4	1.2	3.2	8.4	16.1	21.4	6.7	11.5
9	0.1	0.1	0.4	1.1	3.2	8.4	16.6	22.5	6.7	11.3
10	0.1	0.1	0.4	1.1	3.1	8.3	17.0	23.5	6.6	11.2
11	0.1	0.1	0.4	1.0	3.0	8.0	17.4	24.4	6.6	11.1
12	0.1	0.1	0.3	1.0	2.9	7.8	17.7	25.2	6.6	11.0
13	0.1	0.1	0.3	1.0	2.8	7.5	18.0	25.9	6.6	11.0
14	0.1	0.1	0.3	0.9	2.7	7.1	18.2	26.5	6.7	10.9
15	0.1	0.1	0.3	0.9	2.6	7.1	18.4	27.1	6.7	10.9
16	0.1	0.1	0.3	0.9	2.5	7.0	18.4	27.6	6.9	10.8
17	0.1	0.1	0.3	0.8	2.4	6.6	17.9	28.0	6.9	10.8
18	0.1	0.1	0.3	0.8	2.3	6.4	17.3	28.7	7.0	10.8
19	0.1	0.1	0.3	0.8	2.2	6.4	17.3	28.7	7.1	10.9
20	0.1	0.1	0.3	0.7	2.1	6.2	16.9	28.8	7.1	10.9
21	0.1	0.1	0.3	0.7	2.0	5.8	16.0	28.2	7.3	11.2
22	0.1	0.1	0.3	0.7	1.9	5.6	15.7	27.5	7.3	11.3
23	0.1	0.1	0.3	0.6	1.9	5.4	15.4	26.7	7.4	11.4
24	0.1	0.1	0.3	0.6	1.8	5.3	15.0	26.0	7.5	11.5
25	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.4	7.6	11.6
26	0.1	0.1	0.3	0.6	1.6	4.9	14.2	24.9	7.6	11.7
27	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.4	7.7	11.8
28	0.1	0.1	0.3	0.6	1.5	4.6	13.4	23.9	7.8	11.9
29	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.3	7.9	12.1
30	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7	8.0	12.2
31	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.1	8.0	12.3
32	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5	8.1	12.4
33	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0	8.2	12.5
34	0.1	0.1	0.3	0.6	1.4	3.7	11.2	20.4	8.3	12.6
35	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.8	8.4	12.9
36	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.3	8.5	13.0
37	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8	8.6	13.1
38	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3	8.7	13.3
39	0.1	0.1	0.3	0.6	1.3	3.2	9.7	17.8	8.7	13.3
40	0.1	0.1	0.3	0.6	1.3	3.2	9.4	17.3	8.8	13.4
41	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8	8.9	13.5
42	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.3	9.0	13.7
43	0.1	0.2	0.3	0.6	1.2	3.0	8.6	15.9	9.1	13.9
44	0.1	0.2	0.3	0.6	1.3	2.9	8.3	15.5	9.2	14.1
45	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.1	9.3	14.2
46	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.7	9.4	14.4
47	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.3	9.5	14.5
48	0.1	0.2	0.3	0.6	1.3	2.9	7.5	13.8	9.6	14.6
49	0.1	0.2	0.3	0.7	1.3	2.8	7.4	13.5	9.7	14.7
50	0.1	0.2	0.3	0.7	1.3	2.8	7.4	13.5	9.8	14.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 90 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ										
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	0.1	0.2	0.5	1.5	3.9	7.4	11.5	14.1	51	0.1	0.2	0.3	0.7	1.4	2.8	7.2	13.0
2	0.1	0.2	0.5	1.5	3.8	7.6	12.2	15.1	52	0.1	0.2	0.3	0.7	1.4	2.8	7.1	12.7
3	0.1	0.2	0.5	1.4	3.8	7.8	13.0	16.1	53	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.4
4	0.1	0.2	0.5	1.4	3.6	7.9	13.7	17.2	54	0.1	0.2	0.3	0.7	1.4	2.9	6.8	12.2
5	0.1	0.2	0.5	1.3	3.5	8.1	14.5	18.3	55	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.9
6	0.1	0.1	0.4	1.3	3.4	8.2	15.1	19.4	56	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.7
7	0.1	0.1	0.4	1.2	3.3	8.3	15.7	20.5	57	0.1	0.2	0.4	0.7	1.4	3.0	6.7	11.6
8	0.1	0.1	0.4	1.2	3.2	8.4	16.2	21.6	58	0.1	0.2	0.4	0.7	1.5	3.0	6.7	11.4
9	0.1	0.1	0.4	1.1	3.1	8.3	16.7	22.7	59	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.2
10	0.1	0.1	0.4	1.1	3.0	8.2	17.1	23.6	60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.1
11	0.1	0.1	0.3	1.0	2.9	7.9	17.4	24.5	61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
12	0.1	0.1	0.3	1.0	2.8	7.7	17.8	25.3	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
13	0.1	0.1	0.3	0.9	2.7	7.5	18.0	26.0	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.9
14	0.1	0.1	0.3	0.9	2.6	7.2	18.3	26.6	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.9
15	0.1	0.1	0.3	0.9	2.5	7.1	18.4	27.2	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.8
16	0.1	0.1	0.3	0.8	2.5	6.9	18.4	27.6	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.8
17	0.1	0.1	0.3	0.8	2.4	6.7	18.2	28.1	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.8
18	0.1	0.1	0.3	0.8	2.3	6.5	17.8	28.4	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.8
19	0.1	0.1	0.3	0.7	2.2	6.3	17.2	28.7	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
20	0.1	0.1	0.3	0.7	2.1	6.1	16.7	28.7	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
21	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.5	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
22	0.1	0.1	0.3	0.7	2.0	5.7	15.9	28.0	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
23	0.1	0.1	0.3	0.6	1.9	5.5	15.5	27.1	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
24	0.1	0.1	0.3	0.6	1.8	5.4	15.2	26.4	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
25	0.1	0.1	0.3	0.6	1.8	5.2	14.8	25.8	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.2	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.6	1.6	4.9	14.0	24.7	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.2	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.6	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.1	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.2
31	0.1	0.1	0.3	0.6	1.4	4.3	12.5	22.5	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
32	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
33	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.3	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.3	3.8	11.5	20.7	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.2	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.6	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.1	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.1	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.3	3.2	9.6	17.6	90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.2	3.0	9.0	16.6	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.2	3.0	8.7	16.2	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.3	3.0	8.5	15.8	94	0.1	0.3	0.5	1.1	2.1	4.4	9.1	13.9
45	0.1	0.2	0.3	0.6	1.3	2.9	8.2	15.4	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
46	0.1	0.2	0.3	0.6	1.3	2.9	8.0	14.9	96	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
47	0.1	0.2	0.3	0.6	1.3	2.9	7.8	14.5	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
48	0.1	0.2	0.3	0.6	1.3	2.9	7.6	14.1	98	0.1	0.3	0.5	1.1	2.2	4.5	9.5	14.5
49	0.1	0.2	0.3	0.7	1.3	2.8	7.5	13.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.6	14.6
50	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 91 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ								BAND CENTER FREQUENCY, HZ					
		63	125	250	500	1000	2000			63	125	250	500	1000	2000
1	T	0.1	0.2	0.5	1.5	3.8	7.4	11.6	14.3	51	0.1	0.2	0.3	0.7	1.4
2	E	0.1	0.2	0.5	1.4	3.8	7.6	12.3	15.2	52	0.1	0.2	0.3	0.7	1.4
3	M	0.1	0.2	0.5	1.4	3.7	7.8	13.1	16.3	53	0.1	0.2	0.3	0.7	1.4
4	P	0.1	0.2	0.5	1.3	3.6	8.0	13.9	17.4	54	0.1	0.2	0.3	0.7	1.4
5	R	0.1	0.2	0.4	1.3	3.5	8.1	14.6	18.5	55	0.1	0.2	0.3	0.7	1.4
6	U	0.1	0.1	0.4	1.2	3.4	8.2	15.2	19.6	56	0.1	0.2	0.3	0.7	1.4
7	E	0.1	0.1	0.4	1.2	3.3	8.3	15.8	20.7	57	0.1	0.2	0.4	0.7	1.4
8	1	0.1	0.1	0.4	1.1	3.2	8.4	16.3	21.8	58	0.1	0.2	0.4	0.7	1.5
9	T	0.1	0.1	0.4	1.1	3.1	8.3	16.7	22.9	59	0.1	0.2	0.4	0.7	1.5
10	E	0.1	0.1	0.4	1.1	3.0	8.1	17.1	23.8	60	0.1	0.2	0.4	0.7	1.5
11	M	0.1	0.1	0.3	1.0	2.9	7.8	17.5	24.7	61	0.1	0.2	0.4	0.7	1.5
12	P	0.1	0.1	0.3	1.0	2.8	7.6	17.8	25.4	62	0.1	0.2	0.4	0.7	1.5
13	R	0.1	0.1	0.3	0.9	2.7	7.4	18.0	26.1	63	0.1	0.2	0.4	0.8	1.5
14	U	0.1	0.1	0.3	0.9	2.6	7.2	18.3	26.7	64	0.1	0.2	0.4	0.8	1.5
15	E	0.1	0.1	0.3	0.9	2.5	7.0	18.4	27.2	65	0.1	0.2	0.4	0.8	1.6
16	1	0.1	0.1	0.3	0.8	2.4	6.8	18.3	27.7	66	0.1	0.2	0.4	0.8	1.6
17	T	0.1	0.1	0.3	0.8	2.3	6.6	18.1	28.1	67	0.1	0.2	0.4	0.8	1.6
18	E	0.1	0.1	0.3	0.8	2.3	6.4	17.6	28.4	68	0.1	0.2	0.4	0.8	1.6
19	M	0.1	0.1	0.3	0.7	2.2	6.3	17.0	28.7	69	0.1	0.2	0.4	0.8	1.7
20	P	0.1	0.1	0.3	0.7	2.1	6.1	16.4	28.6	70	0.1	0.2	0.4	0.8	1.7
21	R	0.1	0.1	0.3	0.7	2.0	5.9	16.1	28.4	71	0.1	0.2	0.4	0.8	1.7
22	U	0.1	0.1	0.3	0.7	2.0	5.7	15.8	27.7	72	0.1	0.2	0.4	0.8	1.7
23	E	0.1	0.1	0.3	0.6	1.9	5.5	15.4	26.9	73	0.1	0.2	0.4	0.8	1.7
24	1	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2	74	0.1	0.2	0.4	0.9	1.7
25	T	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.6	75	0.1	0.2	0.4	0.9	1.7
26	E	0.1	0.1	0.3	0.6	1.7	5.0	14.3	25.0	76	0.1	0.2	0.4	0.9	1.8
27	M	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.5	77	0.1	0.2	0.4	0.9	1.8
28	P	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.0	78	0.1	0.2	0.4	0.9	1.8
29	R	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.4	79	0.1	0.2	0.4	0.9	1.8
30	U	0.1	0.1	0.3	0.6	1.5	4.4	12.7	22.9	80	0.1	0.2	0.5	0.9	1.8
31	E	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.3	81	0.1	0.2	0.5	0.9	1.9
32	1	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.7	82	0.1	0.2	0.5	0.9	1.9
33	T	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.1	83	0.1	0.2	0.5	0.9	1.9
34	E	0.1	0.1	0.3	0.6	1.3	3.8	11.3	20.5	84	0.1	0.2	0.5	0.9	1.9
35	M	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.0	85	0.1	0.2	0.5	1.0	1.9
36	P	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	86	0.1	0.2	0.5	1.0	2.0
37	R	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.9	87	0.1	0.2	0.5	1.0	2.0
38	U	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.4	88	0.1	0.2	0.5	1.0	2.0
39	E	0.1	0.1	0.3	0.6	1.2	3.2	9.8	17.9	89	0.1	0.2	0.5	1.0	2.0
40	1	0.1	0.1	0.3	0.6	1.2	3.1	9.2	16.9	90	0.1	0.3	0.5	1.0	2.1
41	T	0.1	0.1	0.3	0.6	1.2	3.0	8.9	16.4	91	0.1	0.3	0.5	1.0	2.1
42	E	0.1	0.1	0.3	0.6	1.2	3.0	8.6	16.0	92	0.1	0.3	0.5	1.0	2.1
43	M	0.1	0.2	0.3	0.6	1.2	2.9	8.4	15.6	93	0.1	0.3	0.5	1.0	2.1
44	P	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.2	94	0.1	0.3	0.5	1.1	2.1
45	R	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.8	95	0.1	0.3	0.5	1.1	2.2
46	U	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.3	96	0.1	0.3	0.5	1.1	2.2
47	E	0.1	0.2	0.3	0.6	1.3	2.9	7.6	13.9	97	0.1	0.3	0.5	1.1	2.2
48	1	0.1	0.2	0.3	0.7	1.3	2.8	7.4	13.5	98	0.1	0.3	0.6	1.1	2.2
49	T	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.2	99	0.1	0.3	0.6	1.1	2.2
50	E	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.2	100	0.1	0.3	0.6	1.1	2.3

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 92 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000		
1	0.1	0.2	0.5	1.5	3.8	7.4	11.7	14.4	51	0.1	0.2	0.2	0.3	0.7	1.4	2.8	7.1	12.7	T	60
2	0.1	0.2	0.5	1.4	3.8	7.6	12.5	15.4	52	0.1	0.2	0.2	0.3	0.7	1.4	2.8	7.0	12.5	E	61
3	0.1	0.2	0.5	1.4	3.7	7.8	13.2	16.5	53	0.1	0.2	0.2	0.3	0.7	1.4	2.8	6.8	12.2	M	62
4	0.1	0.2	0.5	1.3	3.6	8.0	14.0	17.6	54	0.1	0.2	0.2	0.3	0.7	1.4	2.9	6.8	11.9	F	63
5	0.1	0.2	0.4	1.3	3.5	8.1	14.7	18.7	55	0.1	0.2	0.2	0.3	0.7	1.4	2.9	6.7	11.7	T	64
6	0.1	0.1	0.4	1.2	3.3	8.2	15.3	19.8	56	0.1	0.2	0.2	0.3	0.7	1.4	2.9	6.7	11.5	R	65
7	0.1	0.1	0.4	1.2	3.2	8.3	15.5	20.9	57	0.1	0.2	0.2	0.4	0.7	1.4	3.0	6.7	11.4	A	66
8	0.1	0.1	0.4	1.1	3.2	8.3	16.4	22.0	58	0.1	0.2	0.2	0.4	0.7	1.5	3.0	6.6	11.2	U	67
9	0.1	0.1	0.4	1.1	3.1	8.3	16.8	23.0	59	0.1	0.2	0.2	0.4	0.7	1.5	3.0	6.6	11.1	F	68
10	0.1	0.1	0.4	1.0	3.0	8.1	17.2	23.9	T	60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0	E	69
11	0.1	0.1	0.3	1.0	2.9	7.8	17.5	24.8	E	61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.9	M	70
12	0.1	0.1	0.3	1.0	2.8	7.5	17.8	25.5	M	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.8	F	71
13	0.1	0.1	0.3	0.9	2.7	7.3	18.0	26.2	F	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.7	T	72
14	0.1	0.1	0.3	0.9	2.6	7.1	18.2	26.7	T	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.6	R	73
15	0.1	0.1	0.3	0.9	2.5	7.0	18.3	27.3	R	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7	A	74
16	0.1	0.1	0.3	0.8	2.4	6.8	18.2	27.7	A	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7	U	75
17	0.1	0.1	0.3	0.8	2.3	6.6	17.9	28.1	U	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7	F	76
18	0.1	0.1	0.3	0.8	2.2	6.4	17.4	28.4	F	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7	T	77
19	0.1	0.1	0.3	0.7	2.1	6.2	16.9	28.6	T	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.6	R	78
20	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.5	R	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9	A	79
21	0.1	0.1	0.3	0.7	2.0	5.8	16.0	28.2	A	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1	U	80
22	0.1	0.1	0.3	0.6	1.9	5.6	15.6	27.5	U	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2	F	81
23	0.1	0.1	0.3	0.6	1.9	5.4	15.3	26.6	F	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2	T	82
24	0.1	0.1	0.3	0.6	1.8	5.2	14.9	26.0	T	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4	R	83
25	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.3	R	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5	A	84
26	0.1	0.1	0.3	0.6	1.6	4.9	14.2	24.8	A	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6	U	85
27	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.3	U	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7	F	86
28	0.1	0.1	0.3	0.6	1.5	4.6	13.4	23.8	F	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	T	87
29	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.2	T	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9	R	88
30	0.1	0.1	0.3	0.6	1.4	4.3	12.6	22.6	R	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1	A	89
31	0.1	0.1	0.3	0.6	1.4	4.2	12.2	22.1	A	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2	U	90
32	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5	U	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3	F	91
33	0.1	0.1	0.3	0.6	1.3	3.9	11.5	20.9	F	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4	T	92
34	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.3	T	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5	R	93
35	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.8	R	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6	A	94
36	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2	A	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9	U	95
37	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.7	U	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9	F	96
38	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.2	F	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0	T	97
39	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.7	T	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1	R	98
40	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.2	R	90	0.1	0.2	0.5	1.0	2.0	4.1	8.7	13.3	A	99
41	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.7	A	91	0.1	0.2	0.5	1.0	2.0	4.1	8.8	13.4	U	100
42	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.2	U	92	0.1	0.2	0.5	1.0	2.0	4.1	8.9	13.5	F	
43	0.1	0.1	0.3	0.6	1.2	3.0	8.5	15.8	F	93	0.1	0.2	0.5	1.0	2.0	4.1	9.0	13.7	T	
44	0.1	0.1	0.3	0.6	1.2	2.9	8.3	15.5	T	94	0.1	0.2	0.5	1.0	2.0	4.1	9.0	13.8	R	
45	0.1	0.1	0.3	0.6	1.3	2.9	8.1	15.0	R	95	0.1	0.2	0.5	1.0	2.0	4.1	9.1	13.9	A	
46	0.1	0.1	0.3	0.6	1.3	2.9	7.8	14.6	A	96	0.1	0.2	0.5	1.0	2.0	4.1	9.2	14.1	U	
47	0.1	0.1	0.3	0.6	1.3	2.9	7.7	14.2	U	97	0.1	0.2	0.5	1.0	2.0	4.1	9.3	14.2	F	
48	0.1	0.1	0.3	0.6	1.3	2.8	7.5	13.7	F	98	0.1	0.2	0.5	1.0	2.0	4.1	9.4	14.3	T	
49	0.1	0.1	0.3	0.7	1.3	2.8	7.3	13.4	T	99	0.1	0.2	0.5	1.0	2.0	4.1	9.5	14.4	R	
50	0.1	0.1	0.3	0.7	1.3	2.8	7.2	13.1	R	100	0.1	0.2	0.5	1.0	2.0	4.1	9.6	14.5	A	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 93 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ											
	63	125	250	500	1000	2000	4000	8000									
1	0.1	0.2	0.5	1.5	3.0	7.5	11.9	14.6	51	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.4
2	0.1	0.2	0.5	1.4	3.0	7.7	12.6	15.6	52	0.1	0.2	0.3	0.7	1.4	2.8	6.9	12.3
3	0.1	0.2	0.5	1.4	3.7	7.8	13.4	16.7	53	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.1
4	0.1	0.2	0.5	1.3	3.5	8.0	14.1	17.8	54	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.8
5	0.1	0.1	0.4	1.3	3.4	8.1	14.8	18.8	55	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.6
6	0.1	0.1	0.4	1.2	3.3	8.2	15.4	20.0	56	0.1	0.2	0.3	0.7	1.4	3.0	6.7	11.5
7	0.1	0.1	0.4	1.2	3.2	8.3	15.9	21.1	57	0.1	0.2	0.4	0.7	1.4	3.0	6.6	11.3
8	0.1	0.1	0.4	1.1	3.1	8.3	16.4	22.2	58	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.1
9	0.1	0.1	0.4	1.1	3.0	8.2	16.8	23.2	59	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.0
10	0.1	0.1	0.4	1.0	2.9	8.0	17.2	24.1	60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.9
11	0.1	0.1	0.3	1.0	2.8	7.7	17.5	24.9	61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.9
12	0.1	0.1	0.3	1.0	2.7	7.5	17.8	25.6	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.8
13	0.1	0.1	0.3	0.9	2.6	7.3	18.1	26.2	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.7
14	0.1	0.1	0.3	0.9	2.6	7.1	18.2	26.8	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.7
15	0.1	0.1	0.3	0.8	2.5	6.9	18.3	27.3	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
16	0.1	0.1	0.3	0.8	2.4	6.7	18.1	27.7	66	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7
17	0.1	0.1	0.3	0.8	2.3	6.5	17.8	28.1	67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
18	0.1	0.1	0.3	0.7	2.2	6.3	17.2	28.4	68	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.0
19	0.1	0.1	0.3	0.7	2.1	6.1	16.7	28.5	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
20	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.4	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
21	0.1	0.1	0.3	0.7	2.0	5.7	15.9	28.0	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
22	0.1	0.1	0.3	0.6	1.9	5.5	15.5	27.2	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
23	0.1	0.1	0.3	0.6	1.8	5.4	15.2	26.4	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
24	0.1	0.1	0.3	0.6	1.8	5.2	14.8	25.7	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
25	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.1	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.6	1.6	4.9	14.0	24.6	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.1	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.6	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.0	79	0.1	0.2	0.5	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.4	4.3	12.5	22.4	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.8	81	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.2
32	0.1	0.1	0.3	0.6	1.4	4.0	11.7	21.3	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3
33	0.1	0.1	0.3	0.6	1.3	3.8	11.4	20.7	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.1	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.6	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.0	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.5	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.3	3.3	9.8	18.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.2	3.2	9.5	17.5	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.0	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.2	3.1	9.0	16.5	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.2	3.0	8.7	16.1	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.2	2.9	8.4	15.7	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.3	2.9	8.2	15.3	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.3	2.9	8.0	14.9	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.3	2.9	7.8	14.4	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.0	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.6	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.2	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	2.8	7.1	12.9	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 94 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ					BAND CENTER FREQUENCY, MZ											
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.4	3.8	7.5	12.0	14.8	51	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.5
2	0.1	0.2	0.5	1.4	3.8	7.7	12.7	15.8	52	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.2
3	0.1	0.2	0.5	1.3	3.6	7.8	13.5	16.9	53	0.1	0.2	0.3	0.7	1.4	2.8	6.7	12.0
4	0.1	0.2	0.5	1.3	3.5	8.0	14.2	18.0	54	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.7
5	0.1	0.1	0.4	1.2	3.4	8.1	14.9	19.0	55	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.5
6	0.1	0.1	0.4	1.2	3.3	8.2	15.5	20.2	56	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.4
7	0.1	0.1	0.4	1.2	3.2	8.3	16.0	21.3	57	0.1	0.2	0.4	0.7	1.4	3.0	6.6	11.2
8	0.1	0.1	0.4	1.1	3.1	8.3	16.5	22.4	58	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.0
9	0.1	0.1	0.4	1.1	3.0	8.1	16.9	23.3	59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.9
10	0.1	0.1	0.3	1.0	2.9	7.9	17.2	24.2	60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.9
11	0.1	0.1	0.3	1.0	2.8	7.6	17.6	25.0	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.9
12	0.1	0.1	0.3	0.9	2.7	7.4	17.8	25.7	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.8
13	0.1	0.1	0.3	0.9	2.6	7.2	18.1	26.3	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.7
14	0.1	0.1	0.3	0.9	2.5	7.0	18.2	26.9	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.7
15	0.1	0.1	0.3	0.8	2.4	6.8	18.2	27.4	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
16	0.1	0.1	0.3	0.8	2.3	6.7	18.0	27.8	66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	10.7
17	0.1	0.1	0.3	0.8	2.3	6.5	17.6	28.1	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7
18	0.1	0.1	0.3	0.7	2.2	6.3	17.0	28.4	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
19	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.4	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
20	0.1	0.1	0.3	0.7	2.0	5.9	16.1	28.2	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
21	0.1	0.1	0.3	0.7	2.0	5.7	15.7	27.7	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
22	0.1	0.1	0.3	0.6	1.9	5.5	15.4	26.9	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
23	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
24	0.1	0.1	0.2	0.6	1.7	5.1	14.7	25.5	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
25	0.1	0.1	0.2	0.6	1.7	5.0	14.3	24.9	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.4	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.6	1.6	4.6	13.5	23.9	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.4	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
31	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.6	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.1	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
33	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.5	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.3	0.6	1.3	3.6	11.0	19.9	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.8	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.9	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.3	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.2	3.0	8.9	16.3	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.2	3.0	8.6	15.9	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.2	0.3	0.6	1.2	2.9	8.3	15.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.1	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.7	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.3	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.3	2.8	7.5	13.8	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.4	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.3	2.8	7.2	13.1	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	2.8	7.1	12.8	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 95 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ									
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.4	3.8	7.5	12.1	14.9	51	0.1	0.2	0.3	0.7	1.4	2.8	6.9
2	0.1	0.2	0.5	1.4	3.7	7.7	12.9	16.0	52	0.1	0.2	0.3	0.7	1.4	2.8	6.8
3	0.1	0.2	0.5	1.3	3.6	7.9	13.6	17.1	53	0.1	0.2	0.3	0.7	1.4	2.8	6.7
4	0.1	0.2	0.4	1.3	3.5	8.0	14.3	18.1	54	0.1	0.2	0.3	0.7	1.4	2.9	6.7
5	0.1	0.1	0.4	1.2	3.4	8.1	15.0	19.2	55	0.1	0.2	0.3	0.7	1.4	2.9	6.7
6	0.1	0.1	0.4	1.2	3.3	8.2	15.6	20.3	56	0.1	0.2	0.3	0.7	1.4	2.9	6.6
7	0.1	0.1	0.4	1.1	3.2	8.3	16.1	21.5	57	0.1	0.2	0.4	0.7	1.4	3.0	6.6
8	0.1	0.1	0.4	1.1	3.1	8.2	16.5	22.5	58	0.1	0.2	0.4	0.7	1.3	3.0	6.5
9	0.1	0.1	0.4	1.1	3.0	8.1	16.9	23.5	59	0.1	0.2	0.4	0.7	1.5	3.0	6.5
10	0.1	0.1	0.3	1.0	2.9	7.8	17.3	24.3	60	0.1	0.2	0.4	0.7	1.5	3.1	6.5
11	0.1	0.1	0.3	1.0	2.8	7.6	17.6	25.1	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5
12	0.1	0.1	0.3	0.9	2.7	7.3	17.8	25.8	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6
13	0.1	0.1	0.3	0.9	2.6	7.1	18.1	26.4	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6
14	0.1	0.1	0.3	0.9	2.5	7.0	18.2	26.9	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7
15	0.1	0.1	0.3	0.8	2.4	6.8	18.1	27.4	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8
16	0.1	0.1	0.3	0.8	2.3	6.6	17.9	27.8	66	0.1	0.2	0.4	0.8	1.6	3.3	6.9
17	0.1	0.1	0.3	0.8	2.2	6.4	17.4	28.1	67	0.1	0.2	0.4	0.8	1.6	3.3	7.0
18	0.1	0.1	0.3	0.7	2.2	6.2	16.9	28.4	68	0.1	0.2	0.4	0.8	1.6	3.4	7.1
19	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.3	69	0.1	0.2	0.4	0.8	1.7	3.4	7.2
20	0.1	0.1	0.3	0.7	2.0	5.8	16.0	29.1	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2
21	0.1	0.1	0.3	0.7	1.9	5.6	15.6	29.5	71	0.1	0.2	0.4	0.8	1.7	3.5	7.3
22	0.1	0.1	0.3	0.6	1.9	5.4	15.3	29.6	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3
23	0.1	0.1	0.2	0.6	1.8	5.3	14.9	29.9	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3
24	0.1	0.1	0.2	0.6	1.7	5.1	14.5	29.3	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4
25	0.1	0.1	0.2	0.6	1.7	4.9	14.1	24.1	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5
26	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.2	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6
27	0.1	0.1	0.3	0.6	1.5	4.6	13.3	23.7	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6
28	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.2	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7
29	0.1	0.1	0.3	0.6	1.4	4.3	12.6	22.6	79	0.1	0.2	0.5	0.9	1.8	3.7	7.8
30	0.1	0.1	0.3	0.6	1.4	4.2	12.2	22.0	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9
31	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.4	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9
32	0.1	0.1	0.3	0.5	1.3	3.9	11.5	20.8	82	0.1	0.2	0.5	0.9	1.9	3.9	8.0
33	0.1	0.1	0.3	0.5	1.3	3.7	11.2	20.3	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1
34	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.7	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2
35	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3
36	0.1	0.1	0.3	0.6	1.3	3.4	10.2	19.7	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3
37	0.1	0.1	0.3	0.6	1.3	3.3	9.9	19.2	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4
38	0.1	0.1	0.3	0.6	1.2	3.2	9.6	17.7	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5
39	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6
40	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.6	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7
41	0.1	0.1	0.3	0.6	1.2	3.0	8.5	15.8	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8
42	0.1	0.1	0.3	0.6	1.2	2.9	8.2	15.4	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9
43	0.1	0.2	0.3	0.6	1.2	2.9	8.0	15.0	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0
44	0.1	0.2	0.3	0.6	1.2	2.9	7.8	14.5	94	0.1	0.3	0.5	1.1	2.1	4.4	9.1
45	0.1	0.2	0.3	0.6	1.2	2.8	7.6	14.1	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2
46	0.1	0.2	0.3	0.6	1.2	2.8	7.4	13.7	96	0.1	0.3	0.5	1.1	2.2	4.4	9.3
47	0.1	0.2	0.3	0.6	1.2	2.8	7.3	13.3	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4
48	0.1	0.2	0.3	0.6	1.2	2.8	7.1	13.0	98	0.1	0.3	0.6	1.1	2.2	4.5	9.5
49	0.1	0.2	0.3	0.7	1.3	2.8	7.0	12.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.6
50	0.1	0.2	0.3	0.7	1.3	2.8	7.0	12.7	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB DEF 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE AND 96 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.4	3.8	7.5	12.2	15.1	T 10	51	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.3
2	0.1	0.2	0.5	1.4	3.7	7.7	13.0	16.1	F 11	52	0.1	0.2	0.3	0.7	1.4	2.8	6.7	12.0
3	0.1	0.2	0.5	1.3	3.6	7.9	13.8	17.3	M 12	53	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.8
4	0.1	0.1	0.4	1.3	3.4	8.0	14.4	18.3	P 13	54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.6
5	0.1	0.1	0.4	1.2	3.3	8.1	15.1	19.4	F 14	55	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.4
6	0.1	0.1	0.4	1.2	3.2	8.2	15.6	20.5	R 15	56	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.2
7	0.1	0.1	0.4	1.1	3.1	8.3	16.1	21.7	T 17	57	0.1	0.2	0.4	0.7	1.4	3.0	6.5	11.0
8	0.1	0.1	0.4	1.1	3.1	8.2	16.6	22.7	F 18	58	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
9	0.1	0.1	0.4	1.0	3.0	8.0	17.0	23.6	M 19	59	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
T 10	0.1	0.1	0.3	1.0	2.9	7.7	17.3	24.5	P 20	60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
F 11	0.1	0.1	0.3	1.0	2.9	7.5	17.6	25.2	M 22	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
M 12	0.1	0.1	0.3	0.9	2.7	7.3	17.9	25.9	P 23	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.7
P 13	0.1	0.1	0.3	0.9	2.6	7.1	18.1	26.4	F 24	63	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
F 14	0.1	0.1	0.3	0.9	2.5	6.9	18.1	27.0	R 25	64	0.1	0.2	0.4	0.7	1.5	3.2	6.7	10.6
R 15	0.1	0.1	0.3	0.8	2.4	6.7	18.1	27.4	F 26	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
A 16	0.1	0.1	0.3	0.8	2.3	6.5	17.8	27.8	T 27	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
T 17	0.1	0.1	0.3	0.7	2.2	6.2	17.3	28.1	U 28	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
U 18	0.1	0.1	0.3	0.7	2.1	6.1	16.7	28.3	R 29	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
R 19	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.2	F 30	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
F 20	0.1	0.1	0.3	0.7	2.0	5.7	15.9	27.9	P 31	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
P 21	0.1	0.1	0.3	0.6	1.9	5.6	15.5	27.2	F 32	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
F 22	0.1	0.1	0.3	0.6	1.8	5.4	15.2	26.4	U 33	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
U 23	0.1	0.1	0.2	0.6	1.8	5.2	14.8	25.7	D 34	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
D 24	0.1	0.1	0.2	0.6	1.7	5.0	14.4	25.1	E 35	74	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
E 25	0.1	0.1	0.2	0.6	1.6	4.9	14.0	24.5	G 36	75	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
G 26	0.1	0.1	0.2	0.6	1.6	4.7	13.6	24.0	P 37	76	0.1	0.2	0.4	0.9	1.8	3.6	7.5	11.5
P 27	0.1	0.1	0.2	0.6	1.5	4.5	13.2	23.5	E 38	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
E 28	0.1	0.1	0.2	0.6	1.5	4.4	12.8	23.0	F 39	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.7
F 29	0.1	0.1	0.2	0.6	1.4	4.3	12.4	22.4	S 40	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
S 30	0.1	0.1	0.2	0.6	1.4	4.1	12.1	21.8	F 41	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
F 31	0.1	0.1	0.2	0.5	1.4	4.0	11.7	21.2	M 42	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
M 32	0.1	0.1	0.2	0.5	1.3	3.8	11.4	20.6	A 43	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
A 33	0.1	0.1	0.2	0.5	1.3	3.7	11.1	20.1	M 44	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
M 34	0.1	0.1	0.2	0.5	1.3	3.6	10.7	19.5	R 45	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
R 35	0.1	0.1	0.2	0.5	1.3	3.5	10.4	19.0	E 46	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
E 36	0.1	0.1	0.2	0.5	1.3	3.4	10.1	18.5	M 47	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
M 37	0.1	0.1	0.2	0.5	1.2	3.3	9.8	18.0	F 48	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
F 38	0.1	0.1	0.2	0.5	1.2	3.2	9.5	17.5	E 49	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
E 39	0.1	0.1	0.2	0.5	1.2	3.1	9.2	17.0	T 50	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
T 40	0.1	0.1	0.2	0.5	1.2	3.0	8.9	16.5	T 90	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.1	0.2	0.5	1.2	3.0	8.7	16.0		91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.1	0.2	0.5	1.2	2.9	8.4	15.6		92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.1	0.2	0.5	1.2	2.9	8.1	15.2		93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.1	0.2	0.5	1.3	2.9	7.9	14.8		94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.1	0.2	0.5	1.3	2.9	7.7	14.4		95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.1	0.2	0.5	1.3	2.8	7.5	13.9		96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.1	0.2	0.5	1.3	2.8	7.4	13.5		97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.1	0.2	0.5	1.3	2.8	7.2	13.2		98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.1	0.2	0.5	1.3	2.8	7.1	12.8		99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.1	0.2	0.5	1.3	2.8	7.0	12.5		100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 97 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
		63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	T	0.1	0.2	0.3	1.4	3.8	7.6	12.4	15.3	18.2	21.1	24.0	26.9
2	E	0.1	0.2	0.3	1.4	3.7	7.7	13.1	16.3	19.2	22.1	25.0	27.9
3	M	0.1	0.2	0.3	1.3	3.5	7.9	13.9	17.5	20.4	23.3	26.2	29.1
4	P	0.1	0.1	0.4	1.3	3.4	8.0	14.5	18.5	21.4	24.3	27.2	30.1
5	E	0.1	0.1	0.4	1.2	3.3	8.1	15.2	19.6	22.5	25.4	28.3	31.2
6	T	0.1	0.1	0.4	1.2	3.2	8.2	15.7	20.7	23.6	26.5	29.4	32.3
7	E	0.1	0.1	0.4	1.1	3.1	8.2	16.2	21.9	24.8	27.7	30.6	33.5
8	M	0.1	0.1	0.4	1.1	3.0	8.1	16.6	22.8	25.7	28.6	31.5	34.6
9	P	0.1	0.1	0.3	1.0	2.9	7.9	17.0	23.8	26.7	29.6	32.5	35.7
10	E	0.1	0.1	0.3	1.0	2.8	7.7	17.3	24.6	27.5	30.4	33.3	36.8
11	M	0.1	0.1	0.3	0.9	2.7	7.4	17.6	25.3	28.2	31.1	34.0	37.9
12	P	0.1	0.1	0.3	0.9	2.6	7.2	17.9	25.9	28.8	31.7	34.6	38.5
13	E	0.1	0.1	0.3	0.9	2.5	7.0	18.1	26.5	29.4	32.3	35.0	39.1
14	R	0.1	0.1	0.3	0.8	2.4	6.8	18.1	27.0	30.0	32.9	35.6	39.7
15	A	0.1	0.1	0.3	0.8	2.4	6.7	18.0	27.4	30.4	33.3	36.0	40.1
16	T	0.1	0.1	0.3	0.8	2.3	6.5	17.6	27.8	30.8	33.7	36.4	40.5
17	U	0.1	0.1	0.3	0.7	2.2	6.3	17.1	28.1	31.2	34.1	36.8	40.9
18	R	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.3	31.6	34.5	37.2	41.3
19	E	0.1	0.1	0.3	0.7	2.0	5.9	16.1	28.1	32.0	34.9	37.6	41.7
20	M	0.1	0.1	0.3	0.6	1.9	5.7	15.7	27.7	32.4	35.3	38.0	42.1
21	P	0.1	0.1	0.3	0.6	1.8	5.5	15.1	26.2	32.8	35.7	38.4	42.5
22	E	0.1	0.1	0.2	0.6	1.7	5.1	14.7	25.5	33.2	36.1	38.8	42.9
23	D	0.1	0.1	0.2	0.6	1.7	5.0	14.3	24.9	33.6	36.5	39.2	43.3
24	E	0.1	0.1	0.2	0.6	1.6	4.8	13.9	24.3	34.0	36.9	39.6	43.7
25	G	0.1	0.1	0.2	0.6	1.6	4.6	13.5	23.8	34.4	37.3	40.0	44.1
26	R	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.3	34.8	37.7	40.4	44.5
27	E	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8	35.2	38.1	40.8	44.9
28	S	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2	35.6	38.5	41.2	45.3
29	F	0.1	0.1	0.3	0.5	1.4	4.1	12.0	21.6	36.0	38.9	41.6	45.7
30	A	0.1	0.1	0.3	0.5	1.3	3.9	11.6	21.0	36.4	39.3	42.0	46.1
31	M	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.4	36.8	39.7	42.4	46.5
32	H	0.1	0.1	0.3	0.5	1.3	3.6	10.9	19.9	37.2	40.1	42.8	46.9
33	P	0.1	0.1	0.3	0.5	1.3	3.5	10.6	19.3	37.6	40.5	43.2	47.3
34	E	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8	38.0	40.9	43.6	47.7
35	N	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3	38.4	41.3	44.0	48.1
36	H	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.8	38.8	41.7	44.4	48.5
37	E	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.3	39.2	42.1	44.9	48.9
38	I	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8	39.6	42.5	45.3	49.3
39	T	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.3	40.0	42.9	45.7	49.7
40	E	0.1	0.1	0.3	0.6	1.2	2.9	8.6	15.9	40.4	43.3	46.1	50.1
41	M	0.1	0.1	0.3	0.6	1.2	2.9	8.3	15.5	40.8	43.7	46.5	50.5
42	P	0.1	0.1	0.3	0.6	1.2	2.9	8.1	15.1	41.2	44.1	46.9	50.9
43	E	0.1	0.2	0.3	0.6	1.2	2.8	7.9	14.6	41.6	44.5	47.3	51.3
44	N	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.2	42.0	44.9	47.7	51.7
45	H	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.8	42.4	45.3	48.1	52.1
46	E	0.1	0.2	0.3	0.6	1.3	2.8	7.0	13.4	42.8	45.7	48.5	52.5
47	I	0.1	0.2	0.3	0.6	1.3	2.8	6.7	13.0	43.2	46.1	48.9	52.9
48	T	0.1	0.2	0.3	0.6	1.3	2.8	6.4	12.6	43.6	46.5	49.3	53.3
49	E	0.1	0.2	0.3	0.7	1.3	2.8	6.1	12.2	44.0	46.9	49.7	53.7
50	M	0.1	0.2	0.3	0.7	1.3	2.8	5.8	11.8	44.4	47.3	50.1	54.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 98 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, MZ									RAND CENTER FREQUENCY, MZ							
	63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.4	3.7	7.6	12.5	15.4	51	0.1	0.2	0.3	0.7	1.4	2.8	6.7	12.0
2	0.1	0.2	0.5	1.3	3.6	7.7	13.2	16.5	52	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.8
3	0.1	0.2	0.5	1.3	3.5	7.9	14.0	17.6	53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.6
4	0.1	0.1	0.4	1.2	3.4	8.0	14.6	18.7	54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.4
5	0.1	0.1	0.4	1.2	3.3	8.1	15.2	19.8	55	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.2
6	0.1	0.1	0.4	1.1	3.2	8.2	15.8	20.9	56	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.0
7	0.1	0.1	0.4	1.1	3.1	8.2	16.3	22.0	57	0.1	0.2	0.4	0.7	1.4	3.0	6.5	10.9
8	0.1	0.1	0.4	1.1	3.0	8.1	16.7	23.0	58	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
9	0.1	0.1	0.3	1.0	2.9	7.9	17.0	23.9	59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.4
T 10	0.1	0.1	0.3	1.0	2.8	7.6	17.4	24.7	T 60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.7
E 11	0.1	0.1	0.3	0.9	2.7	7.4	17.6	25.4	E 61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.6
M 12	0.1	0.1	0.3	0.9	2.6	7.2	17.9	26.0	M 62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
P 13	0.1	0.1	0.3	0.9	2.5	7.0	18.0	26.6	P 63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.5
E 14	0.1	0.1	0.3	0.8	2.4	6.8	18.0	27.1	E 64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.5
R 15	0.1	0.1	0.3	0.8	2.3	6.6	17.9	27.5	R 65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
A 16	0.1	0.1	0.3	0.8	2.3	6.4	17.5	27.8	A 66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
T 17	0.1	0.1	0.3	0.7	2.2	6.2	16.9	28.1	T 67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
U 18	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.2	U 68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
R 19	0.1	0.1	0.3	0.7	2.0	5.8	16.0	28.0	R 69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
E 20	0.1	0.1	0.3	0.7	1.9	5.6	15.6	27.5	E 70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
• 21	0.1	0.1	0.2	0.6	1.9	5.4	15.3	26.7	• 71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
22	0.1	0.1	0.2	0.6	1.8	5.3	14.9	25.9	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
D 23	0.1	0.1	0.2	0.6	1.7	5.1	14.5	25.3	D 73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
E 24	0.1	0.1	0.2	0.6	1.7	4.9	14.1	24.7	E 74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
G 25	0.1	0.1	0.2	0.6	1.6	4.8	13.8	24.1	G 75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
R 26	0.1	0.1	0.3	0.6	1.6	4.6	13.4	23.7	R 76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
E 27	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.1	E 77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
S 28	0.1	0.1	0.3	0.6	1.4	4.3	12.6	22.6	E 78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
30	0.1	0.1	0.3	0.5	1.4	4.2	12.2	22.0	S 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
F 31	0.1	0.1	0.3	0.5	1.4	4.0	11.8	21.4	F 80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
A 32	0.1	0.1	0.3	0.5	1.3	3.9	11.5	20.8	A 81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.2
H 33	0.1	0.1	0.3	0.5	1.3	3.7	11.2	20.2	H 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
R 34	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.7	R 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
E 35	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.1	E 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
M 36	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6	E 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
H 37	0.1	0.1	0.3	0.6	1.2	3.3	9.9	18.1	M 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
I 38	0.1	0.1	0.3	0.6	1.2	3.2	9.6	17.6	H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
T 39	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1	E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
41	0.1	0.1	0.3	0.6	1.2	3.0	9.0	16.6	I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
42	0.1	0.1	0.3	0.6	1.2	3.0	8.7	16.1	T 90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
43	0.1	0.1	0.3	0.6	1.2	2.9	8.5	15.7	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
44	0.1	0.1	0.3	0.6	1.2	2.9	8.2	15.3	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
45	0.1	0.1	0.3	0.6	1.2	2.9	8.0	14.9	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
46	0.1	0.2	0.3	0.6	1.3	2.8	7.8	14.5	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
47	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.0	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
48	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.6	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
49	0.1	0.2	0.3	0.6	1.3	2.8	7.2	13.2	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
50	0.1	0.2	0.3	0.6	1.3	2.8	7.0	12.9	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
	0.1	0.2	0.3	0.7	1.3	2.8	6.9	12.6	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
	0.1	0.2	0.3	0.7	1.3	2.8	6.9	12.3	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE FOR 99 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.1	0.2	0.5	1.4	3.7	7.6	12.6	15.6	15.6	15.6	15.6	15.6
2	0.1	0.2	0.5	1.3	3.6	7.4	12.4	15.4	15.4	15.4	15.4	15.4
3	0.1	0.2	0.4	1.3	3.5	7.3	12.3	15.3	15.3	15.3	15.3	15.3
4	0.1	0.1	0.4	1.2	3.4	7.2	12.2	15.2	15.2	15.2	15.2	15.2
5	0.1	0.1	0.4	1.2	3.2	7.0	12.0	15.0	15.0	15.0	15.0	15.0
6	0.1	0.1	0.4	1.1	3.2	6.9	11.9	14.9	14.9	14.9	14.9	14.9
7	0.1	0.1	0.4	1.1	3.1	6.8	11.8	14.8	14.8	14.8	14.8	14.8
8	0.1	0.1	0.4	1.1	3.0	6.7	11.7	14.7	14.7	14.7	14.7	14.7
9	0.1	0.1	0.3	1.0	2.9	6.6	11.6	14.6	14.6	14.6	14.6	14.6
10	0.1	0.1	0.3	1.0	2.8	6.5	11.5	14.5	14.5	14.5	14.5	14.5
11	0.1	0.1	0.3	0.9	2.7	6.4	11.4	14.4	14.4	14.4	14.4	14.4
12	0.1	0.1	0.3	0.9	2.6	6.3	11.3	14.3	14.3	14.3	14.3	14.3
13	0.1	0.1	0.3	0.8	2.5	6.2	11.2	14.2	14.2	14.2	14.2	14.2
14	0.1	0.1	0.3	0.8	2.4	6.1	11.1	14.1	14.1	14.1	14.1	14.1
15	0.1	0.1	0.3	0.8	2.3	6.0	11.0	14.0	14.0	14.0	14.0	14.0
16	0.1	0.1	0.3	0.7	2.2	5.9	10.9	13.9	13.9	13.9	13.9	13.9
17	0.1	0.1	0.3	0.7	2.1	5.8	10.8	13.8	13.8	13.8	13.8	13.8
18	0.1	0.1	0.3	0.7	2.0	5.7	10.7	13.7	13.7	13.7	13.7	13.7
19	0.1	0.1	0.3	0.6	1.9	5.6	10.6	13.6	13.6	13.6	13.6	13.6
20	0.1	0.1	0.3	0.6	1.8	5.5	10.5	13.5	13.5	13.5	13.5	13.5
21	0.1	0.1	0.2	0.6	1.8	5.4	10.4	13.4	13.4	13.4	13.4	13.4
22	0.1	0.1	0.2	0.6	1.7	5.3	10.3	13.3	13.3	13.3	13.3	13.3
23	0.1	0.1	0.2	0.6	1.7	5.2	10.2	13.2	13.2	13.2	13.2	13.2
24	0.1	0.1	0.2	0.6	1.6	5.1	10.1	13.1	13.1	13.1	13.1	13.1
25	0.1	0.1	0.2	0.6	1.6	5.0	10.0	13.0	13.0	13.0	13.0	13.0
26	0.1	0.1	0.2	0.6	1.5	4.9	9.9	12.9	12.9	12.9	12.9	12.9
27	0.1	0.1	0.2	0.6	1.5	4.8	9.8	12.8	12.8	12.8	12.8	12.8
28	0.1	0.1	0.2	0.6	1.4	4.7	9.7	12.7	12.7	12.7	12.7	12.7
29	0.1	0.1	0.2	0.5	1.4	4.6	9.6	12.6	12.6	12.6	12.6	12.6
30	0.1	0.1	0.2	0.5	1.4	4.5	9.5	12.5	12.5	12.5	12.5	12.5
31	0.1	0.1	0.2	0.5	1.3	4.4	9.4	12.4	12.4	12.4	12.4	12.4
32	0.1	0.1	0.2	0.5	1.3	4.3	9.3	12.3	12.3	12.3	12.3	12.3
33	0.1	0.1	0.2	0.5	1.3	4.2	9.2	12.2	12.2	12.2	12.2	12.2
34	0.1	0.1	0.2	0.5	1.3	4.1	9.1	12.1	12.1	12.1	12.1	12.1
35	0.1	0.1	0.2	0.5	1.3	4.0	9.0	12.0	12.0	12.0	12.0	12.0
36	0.1	0.1	0.2	0.5	1.2	3.9	8.9	11.9	11.9	11.9	11.9	11.9
37	0.1	0.1	0.2	0.5	1.2	3.8	8.8	11.8	11.8	11.8	11.8	11.8
38	0.1	0.1	0.2	0.5	1.2	3.7	8.7	11.7	11.7	11.7	11.7	11.7
39	0.1	0.1	0.2	0.5	1.2	3.6	8.6	11.6	11.6	11.6	11.6	11.6
40	0.1	0.1	0.2	0.5	1.2	3.5	8.5	11.5	11.5	11.5	11.5	11.5
41	0.1	0.1	0.2	0.5	1.2	3.4	8.4	11.4	11.4	11.4	11.4	11.4
42	0.1	0.1	0.2	0.5	1.2	3.3	8.3	11.3	11.3	11.3	11.3	11.3
43	0.1	0.1	0.2	0.5	1.2	3.2	8.2	11.2	11.2	11.2	11.2	11.2
44	0.1	0.1	0.2	0.5	1.2	3.1	8.1	11.1	11.1	11.1	11.1	11.1
45	0.1	0.1	0.2	0.5	1.2	3.0	8.0	11.0	11.0	11.0	11.0	11.0
46	0.1	0.1	0.2	0.5	1.2	2.9	7.9	10.9	10.9	10.9	10.9	10.9
47	0.1	0.1	0.2	0.5	1.2	2.8	7.8	10.8	10.8	10.8	10.8	10.8
48	0.1	0.1	0.2	0.5	1.2	2.7	7.7	10.7	10.7	10.7	10.7	10.7
49	0.1	0.1	0.2	0.5	1.2	2.6	7.6	10.6	10.6	10.6	10.6	10.6
50	0.1	0.1	0.2	0.5	1.2	2.5	7.5	10.5	10.5	10.5	10.5	10.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 100 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ						BAND CENTER FREQUENCY, HZ										
	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000	
1	0.1	0.2	0.5	1.4	3.7	7.6	12.7	15.8	51	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.6
2	0.1	0.2	0.5	1.3	3.6	7.4	13.5	16.9	52	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.6
3	0.1	0.1	0.4	1.3	3.4	7.9	14.2	18.0	53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.4
4	0.1	0.1	0.4	1.2	3.3	8.1	14.8	19.0	54	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.2
5	0.1	0.1	0.4	1.2	3.2	8.1	15.4	20.2	55	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.0
6	0.1	0.1	0.4	1.1	3.1	8.2	15.9	21.3	56	0.1	0.2	0.3	0.7	1.4	2.9	6.4	10.9
7	0.1	0.1	0.4	1.1	3.0	8.1	16.4	22.3	57	0.1	0.2	0.4	0.7	1.4	3.0	6.4	10.8
8	0.1	0.1	0.4	1.0	2.9	8.0	16.7	23.3	58	0.1	0.2	0.4	0.7	1.5	3.0	6.4	10.7
9	0.1	0.1	0.3	1.0	2.8	7.7	17.1	24.1	59	0.1	0.2	0.4	0.7	1.5	3.0	6.4	10.7
10	0.1	0.1	0.3	1.0	2.7	7.5	17.4	24.9	60	0.1	0.2	0.4	0.7	1.5	3.1	6.4	10.6
11	0.1	0.1	0.3	0.9	2.7	7.2	17.7	25.6	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.5
12	0.1	0.1	0.3	0.9	2.6	7.0	17.9	26.1	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.5
13	0.1	0.1	0.3	0.8	2.5	6.9	18.0	26.7	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.5
14	0.1	0.1	0.3	0.8	2.4	6.7	17.9	27.1	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.5
15	0.1	0.1	0.3	0.8	2.3	6.5	17.7	27.5	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
16	0.1	0.1	0.3	0.7	2.2	6.3	17.2	27.9	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
17	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.1	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
18	0.1	0.1	0.3	0.7	2.0	5.9	16.2	28.0	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
19	0.1	0.1	0.3	0.7	2.0	5.7	15.8	27.7	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
20	0.1	0.1	0.3	0.6	1.9	5.5	15.4	27.0	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
21	0.1	0.1	0.2	0.6	1.8	5.3	15.0	26.2	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
22	0.1	0.1	0.2	0.6	1.8	5.2	14.7	25.5	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
23	0.1	0.1	0.2	0.6	1.7	5.0	14.3	24.9	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
24	0.1	0.1	0.2	0.6	1.6	4.8	13.9	24.3	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
25	0.1	0.1	0.2	0.6	1.6	4.6	13.5	23.8	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
26	0.1	0.1	0.2	0.6	1.5	4.5	13.1	23.3	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.2	0.6	1.5	4.3	12.7	22.8	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.2	0.5	1.4	4.2	12.3	22.2	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.2	0.5	1.4	4.1	12.0	21.6	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.2	0.5	1.3	3.9	11.6	21.0	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.2	0.5	1.3	3.8	11.3	20.4	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.2
32	0.1	0.1	0.2	0.5	1.3	3.6	10.9	19.9	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
33	0.1	0.1	0.2	0.5	1.3	3.5	10.6	19.3	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.2	0.6	1.3	3.4	10.2	18.8	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.2	0.6	1.2	3.3	9.9	18.3	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.2	0.6	1.2	3.2	9.7	17.8	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	0.1	0.1	0.2	0.6	1.2	3.1	9.4	17.3	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.2	0.6	1.2	3.1	9.1	16.7	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.2	0.6	1.2	3.0	8.8	16.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.2	0.6	1.2	2.9	8.5	15.8	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.2	0.6	1.2	2.9	8.3	15.4	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.2	0.6	1.2	2.8	8.0	15.0	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.2	0.6	1.2	2.8	7.8	14.6	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.2	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.7	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.3	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.3	2.8	7.1	13.0	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.3	2.7	7.0	12.7	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.3	2.7	6.9	12.4	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	0.1	0.2	0.3	0.7	1.3	2.7	6.8	12.1	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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TABLE 2

ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/3-OCTAVE BANDS
OF NOISE

This table (next 200 pages) includes atmospheric absorption coefficients for twenty-four 1/3-octave bands, with center frequencies from 50 to 10,000 Hz, as a function of air temperature from 1°F to 100°F at intervals of 1°F and for relative humidities from 1 percent to 100 percent at intervals of 1 percent.

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ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR -1 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.3
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.3
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.4
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.1	3.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
27	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
28	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
29	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
30	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
31	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
32	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
33	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
34	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
35	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
36	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
37	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
38	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
39	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
40	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
41	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
42	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
43	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
44	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
45	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
46	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
47	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
48	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
49	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 1 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	T	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.6	
52	F	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.7	
53	M	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.9	2.3	2.6	3.3	4.3	5.9	
54	P	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.2	1.4	1.7	2.0	2.4	2.7	3.4	4.5	6.1	
55	P	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.5	2.8	3.5	4.6	6.2	
56	F	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.8	2.1	2.6	2.9	3.6	4.7	6.3	
57	M	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.7	3.0	3.7	4.8	6.5	
58	P	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.8	6.5	
59	F	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.8	3.1	3.8	4.9	6.6	
60	M	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.9	3.2	3.9	5.1	6.8
61	P	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.2	2.6	3.0	3.3	4.0	5.2	6.9
62	F	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.2	2.6	3.1	3.4	4.2	5.3	7.1
63	M	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.3	5.5	7.3
64	P	0.3	0.4	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1	2.4	2.8	3.3	3.7	4.4	5.7	7.4
65	F	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.8	4.6	5.8	7.6
66	M	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0	2.2	2.6	3.0	3.6	3.9	4.7	6.0	7.8
67	P	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.1	2.3	2.7	3.1	3.7	4.1	4.9	6.2	8.0
68	F	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.4	2.8	3.2	3.8	4.2	5.1	6.3	8.2
69	M	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.5	2.9	3.4	4.0	4.4	5.2	6.5	8.4	
70	P	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.5	5.4	6.7	8.7	
71	F	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.2	3.6	4.3	4.7	5.6	6.9	8.9	
72	M	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.3	3.8	4.3	4.9	5.8	7.9	
73	P	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.6	5.0	6.0	7.4	9.4	
74	F	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.1	4.8	5.2	6.2	7.6	9.6	
75	M	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.2	4.8	5.4	6.4	7.9	9.9	
76	P	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	1.9	2.2	2.4	2.7	3.0	3.4	3.9	4.4	5.2	5.6	6.6	8.1	10.2	
77	F	0.4	0.5	0.7	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.2	3.6	4.0	4.6	5.4	5.8	6.9	8.4	10.5	
78	M	0.4	0.6	0.7	0.8	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.2	4.8	5.6	6.1	7.1	8.7	10.8	
79	P	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.9	4.4	5.0	5.8	6.3	7.4	8.9	11.1	
80	F	0.4	0.6	0.7	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6	4.1	4.6	5.2	6.0	6.5	7.6	9.2	11.5	
81	M	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.8	4.2	4.8	5.4	6.3	6.8	7.9	9.6	11.8	
82	P	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.1	3.5	3.9	4.4	5.0	5.6	6.5	7.0	8.2	9.9	12.2	
83	F	0.4	0.6	0.7	0.9	1.1	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.8	4.1	4.6	5.2	5.9	6.8	7.3	8.5	10.2	12.6	
84	M	0.4	0.6	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.4	6.1	7.1	7.6	8.8	10.6	13.0	
85	P	0.4	0.6	0.8	0.9	1.2	1.4	1.7	1.9	2.2	2.4	2.7	2.9	3.3	3.6	4.0	4.5	5.0	5.6	6.4	7.3	7.9	9.2	10.9	13.4	
86	F	0.4	0.5	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.2	5.9	6.6	7.6	8.2	9.5	11.3	13.8	
87	M	0.4	0.5	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	2.9	3.2	3.6	3.9	4.3	4.9	5.4	6.1	6.9	7.9	8.5	9.9	11.7	14.2	
88	P	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.0	3.4	3.7	4.1	4.5	5.1	5.7	6.4	7.2	8.3	8.9	10.2	12.1	14.7	
89	F	0.4	0.5	0.7	1.0	1.2	1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.9	4.3	4.7	5.3	5.9	6.6	7.5	8.6	9.2	10.6	12.6	15.2	
90	M	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.5	5.0	5.6	6.2	6.9	7.8	8.9	9.6	11.0	13.0	15.7	
91	P	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.1	3.5	3.8	4.3	4.7	5.2	5.8	6.5	7.2	8.1	9.3	10.0	11.4	13.5	16.2	
92	F	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.1	3.5	3.8	4.3	4.7	5.4	6.1	6.7	7.5	8.5	9.7	10.4	11.9	14.0	16.7	
93	M	0.4	0.5	0.7	1.0	1.3	1.7	2.0	2.5	2.9	3.4	3.8	4.2	4.7	5.1	5.7	6.3	7.0	7.8	8.8	10.1	10.8	12.3	14.5	17.3	
94	P	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.0	3.5	4.0	4.4	4.9	5.4	5.9	6.6	7.3	8.2	9.2	10.5	11.2	12.8	15.0	17.9	
95	F	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.1	3.7	4.1	4.6	5.1	5.6	6.2	6.9	7.7	8.5	9.6	10.9	11.7	13.3	15.6	18.5	
96	M	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.8	4.3	4.8	5.3	5.9	6.5	7.2	8.0	8.9	10.0	11.4	12.1	13.8	16.1	19.2	
97	P	0.3	0.5	0.7	0.9	1.2	1.7	2.2	2.7	3.2	3.9	4.5	5.0	5.6	6.1	6.8	7.5	8.3	9.3	10.4	11.8	12.6	14.4	16.7	19.8	
98	F	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.7	3.3	4.0	4.6	5.2	5.8	6.4	7.1	7.9	8.7	9.7	10.9	12.3	13.1	14.9	17.4	20.5	
99	M	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.7	3.4	4.1	4.8	5.4	6.1	6.7	7.4	8.2	9.1	10.1	11.3	12.8	13.7	15.5	18.0	21.3	
100	P	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.2	4.9	5.7	6.4	7.0	7.7	8.6	9.5	10.5	11.8	13.0	14.2	16.1	18.7	22.0	

TEMPERATURE - DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 2 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																	
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500
51	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.6
52	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.8
53	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9
54	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.7	3.0
55	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.6	1.8	2.0	2.2	2.5	2.8	3.2
56	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.3
57	0.3	0.4	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.4
58	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6
59	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.6	3.0	3.3	3.8
60	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.7	3.1	3.5	3.9
61	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6	4.1
62	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	1.7	1.9	2.0	2.2	2.5	2.7	3.0	3.4	3.8
63	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.0	2.2	2.3	2.6	2.8	3.2	3.6	4.0
64	0.3	0.4	0.6	0.8	0.9	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.7
65	0.3	0.4	0.6	0.8	0.9	1.2	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.1	3.5	3.9	4.4	4.9
66	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.7	3.0	3.3	3.6	4.1	4.6	5.1
67	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.3	2.6	2.8	3.1	3.4	3.8	4.3	4.8	5.4
68	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	5.6
69	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.2	5.8
70	0.3	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.3	3.6	4.0	4.4	4.9	5.5	6.1
71	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.3	2.7	3.1	3.4	3.8	4.2	4.6	5.1	5.7	6.4
72	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.4	6.0	6.7
73	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.0	2.5	2.9	3.3	3.8	4.2	4.6	5.0	5.6	6.3	7.0
74	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.4	4.8	5.3	5.9	6.5	7.3
75	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.6	4.1	4.6	5.0	5.5	6.2	6.8	7.6
76	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.7	4.3	4.8	5.3	5.8	6.5	7.2	8.0
77	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.3	3.9	4.4	5.0	5.5	6.1	6.8	7.5	8.3
78	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.4	4.0	4.6	5.2	5.8	6.4	7.1	7.8	8.7
79	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.1	4.8	5.4	6.1	6.7	7.4	8.2	9.1
80	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.5	4.2	5.0	5.7	6.4	7.0	7.8	8.6	9.5
81	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.6	4.3	5.1	5.9	6.6	7.3	8.1	9.0	9.9
82	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	2.9	3.6	4.4	5.3	6.2	6.9	7.7	8.5	9.4	10.4
83	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	2.9	3.7	4.5	5.4	6.4	7.2	8.0	8.9	9.8	10.9
84	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.0	3.7	4.6	5.6	6.6	7.5	8.4	9.3	10.3	11.4
85	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.0	3.8	4.7	5.7	6.8	7.8	8.7	9.8	10.7	11.9
86	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	3.8	4.7	5.8	7.0	8.1	9.1	10.2	11.2	12.4
87	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	3.8	4.8	5.9	7.2	8.4	9.5	10.7	11.8	13.0
88	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	4.9	6.0	7.4	8.7	9.9	11.2	12.3	13.6
89	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	3.9	5.0	6.1	7.6	9.0	10.3	11.7	12.9	14.2
90	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.9	5.0	6.2	7.7	9.2	10.7	12.1	13.5	14.9
91	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.9	5.1	6.3	7.9	9.4	11.0	12.6	14.1	15.5
92	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.1	6.4	8.0	9.7	11.4	13.2	14.7	16.3
93	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.1	6.5	8.2	9.9	11.7	13.7	15.4	17.0
94	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	6.6	8.3	10.1	12.1	14.2	16.0	17.8
95	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	6.7	8.4	10.3	12.4	14.7	16.6	18.6
96	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.6	5.0	6.7	8.5	10.5	12.7	15.2	17.3	19.4
97	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.7	8.6	10.7	13.0	15.6	18.0	20.2
98	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.9	6.7	8.8	10.8	13.2	16.1	18.7	21.0
99	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.7	8.8	11.0	13.5	16.5	19.3	21.9
100	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.4	4.7	6.6	8.9	11.1	13.7	16.9	19.9	22.8

[illegible]

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 3 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.9	4.5	5.2	5.7	6.7	8.1	10.2
52	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.1	4.7	5.5	5.9	6.9	8.4	10.5
53	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.0	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.7	6.2	7.2	8.7	10.8
54	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.5	5.2	6.0	6.4	7.5	9.1	11.2
55	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.3	2.5	2.8	3.0	3.4	3.8	4.2	4.7	5.4	6.2	6.7	7.8	9.4	11.6
56	0.3	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.5	4.0	4.4	5.0	5.6	6.5	7.0	8.1	10.0	12.4
57	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3.0	3.4	3.7	4.2	4.6	5.2	5.9	6.8	7.3	8.5	10.1	12.4
58	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.9	4.4	4.9	5.5	6.2	7.1	7.6	8.8	10.5	12.8
59	0.2	0.3	0.5	0.6	0.9	1.1	1.4	1.7	2.1	2.4	2.7	3.0	3.4	3.7	4.1	4.6	5.1	5.7	6.5	7.4	8.0	9.2	10.9	13.3
60	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.8	2.1	2.5	2.9	3.2	3.5	3.9	4.3	4.8	5.4	6.0	6.8	7.7	8.3	9.6	11.4	13.8
61	0.2	0.3	0.4	0.6	0.9	1.2	1.5	1.8	2.2	2.6	3.0	3.4	3.7	4.1	4.5	5.0	5.6	6.3	7.1	8.1	8.7	10.0	11.8	14.3
62	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.2	2.7	3.1	3.5	3.9	4.3	4.7	5.3	5.9	6.6	7.4	8.4	9.0	10.4	12.3	14.8
63	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.3	2.8	3.2	3.7	4.1	4.5	5.0	5.6	6.2	6.9	7.7	8.8	9.4	10.8	12.7	15.3
64	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.8	3.3	3.8	4.3	4.7	5.2	5.8	6.5	7.2	8.1	9.2	9.9	11.3	13.3	15.9
65	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5	5.0	5.5	6.1	6.8	7.5	8.5	9.6	10.3	11.8	13.8	16.5
66	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.7	5.2	5.8	6.4	7.1	7.9	8.9	10.1	10.7	12.3	14.3	17.1
67	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.4	3.0	3.7	4.3	4.9	5.5	6.0	6.7	7.4	8.3	9.3	10.5	11.7	12.8	14.9	17.7
68	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.5	3.1	3.8	4.4	5.1	5.8	6.3	7.1	7.8	8.7	9.7	11.0	11.7	13.3	15.5	18.4
69	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	3.2	3.8	4.6	5.4	6.0	6.7	7.4	8.2	9.1	10.1	11.5	12.2	13.9	16.1	19.1
70	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	3.2	3.9	4.7	5.6	6.3	7.0	7.8	8.6	9.5	10.6	12.0	12.8	14.5	16.8	19.8
71	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.0	4.8	5.7	6.5	7.3	8.1	9.0	9.9	11.1	12.5	13.3	15.1	17.5	20.6
72	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.0	5.9	6.8	7.6	8.5	9.4	10.4	11.6	13.1	13.9	15.7	18.2	21.4
73	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.1	6.1	7.1	8.0	9.0	9.9	10.9	12.2	13.7	14.6	16.4	18.9	22.2
74	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.4	4.2	5.2	6.3	7.3	8.3	9.4	10.3	11.4	12.7	14.3	15.2	17.1	19.7	23.0
75	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.4	4.3	5.3	6.4	7.6	8.7	9.8	10.8	12.0	13.3	15.0	15.9	17.9	20.6	24.0
76	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.3	5.4	6.6	7.8	9.0	10.3	11.4	12.5	13.9	15.6	16.6	18.7	21.4	24.9
77	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.4	6.7	8.0	9.4	10.7	11.9	13.1	14.6	16.3	17.3	19.5	22.3	25.9
78	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.4	6.9	8.3	9.7	11.1	12.5	13.7	15.3	17.1	18.1	20.3	23.2	26.9
79	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.6	7.0	8.5	10.0	11.6	13.0	14.4	16.0	17.9	18.9	21.2	24.2	28.0
80	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.4	5.7	7.1	8.7	10.3	12.1	13.6	15.1	16.7	18.7	19.8	22.1	25.2	29.1
81	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.4	5.7	7.2	8.8	10.6	12.5	14.1	15.8	17.5	19.5	20.7	23.1	26.3	30.3
82	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.8	7.4	9.2	11.1	13.4	15.3	17.2	19.2	21.4	22.6	25.2	28.6	32.8
83	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.8	7.4	9.2	11.1	13.4	15.3	17.2	19.2	21.4	22.6	25.2	28.6	32.8
84	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.8	7.5	9.3	11.3	13.8	15.9	17.9	20.1	22.3	23.6	26.3	29.8	34.2
85	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	5.8	7.6	9.5	11.6	14.1	16.5	18.7	21.0	23.4	24.7	27.5	31.1	35.6
86	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.6	11.8	14.5	17.0	19.4	21.9	24.4	25.8	28.7	32.4	37.1
87	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.0	5.6	7.7	9.7	12.0	14.8	17.6	20.2	22.8	25.6	27.0	30.0	33.8	38.6
88	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.7	9.8	12.2	15.2	18.1	21.0	23.8	26.8	28.2	31.3	35.3	40.2
89	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	3.9	5.4	7.7	9.9	12.4	15.5	18.6	21.7	24.7	28.0	29.5	32.7	36.8	41.9
90	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.6	10.0	12.5	15.7	19.0	22.4	25.7	29.2	30.9	34.2	38.4	43.6
91	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5	10.0	12.7	16.0	19.5	23.1	26.8	30.4	32.3	35.7	40.1	45.5
92	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.2	7.3	10.0	12.8	16.3	19.9	23.7	27.6	31.6	33.7	37.3	41.9	47.4
93	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.7	5.2	7.2	10.0	13.0	16.5	20.2	24.3	28.7	32.9	35.0	39.0	43.7	49.4
94	0.1	0.2	0.2	0.3	0.4	0.7	0.9	1.3	1.8	2.6	3.7	5.1	7.1	9.9	13.1	16.8	20.6	24.9	29.6	34.2	36.5	40.8	45.6	51.5
95	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	7.0	9.7	13.1	17.0	21.0	25.5	30.5	35.6	37.9	42.6	47.7	53.7
96	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	5.0	6.9	9.5	13.0	17.2	21.3	26.0	31.3	36.9	39.4	44.4	49.8	56.1
97	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	6.8	9.4	13.0	17.4	21.6	26.5	32.1	38.1	41.0	46.2	52.0	58.5
98	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.3	12.8	17.5	21.9	27.0	32.9	39.3	42.5	48.0	54.3	61.0
99	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.7	9.1	12.6	17.6	22.2	27.4	33.7	40.5	43.9	49.9	56.8	63.7
100	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.7	6.6	9.0	12.4	17.5	22.5	27.9	34.3	41.6	45.3	51.9	59.1	66.5

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, MC																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.8	5.6
2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.2	1.7	2.5	3.8	5.6
3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.2	1.7	2.6	3.9	5.7
4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.6	3.9	5.7
5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.8	2.7	4.0	5.8
6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.9	2.7	4.1	6.0
7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8	4.1	6.1
8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.5	2.0	2.8	4.2	6.2
9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.5	2.0	2.9	4.2	6.2
10	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.5	2.0	2.9	4.3
11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.5	2.1	3.0	4.3
12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.6	2.1	3.1	4.5
13	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.6	2.2	3.1	4.5
14	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.5	1.7	2.2	3.1	4.5
15	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.3	4.6
16	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.3	4.6
17	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.4	1.6	1.9	2.4	4.8
18	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.4	4.8
19	0.2																								

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE AND PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.7	5.3	6.0	6.9	7.4	8.6	10.3	12.5
52	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.6	4.0	4.5	5.0	5.6	6.3	7.2	7.8	9.0	10.7	13.0
53	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.0	2.4	2.8	3.1	3.5	3.8	4.2	4.7	5.2	5.8	6.6	7.6	8.1	9.4	11.1	13.5
54	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.3	3.7	4.0	4.4	4.9	5.5	6.1	6.9	7.9	8.5	9.8	11.6	14.0
55	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.6	3.0	3.4	3.9	4.2	4.7	5.2	5.8	6.4	7.3	8.3	8.9	10.2	12.0	14.5
56	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.6	3.1	3.6	4.0	4.5	4.9	5.5	6.1	6.8	7.6	8.7	9.3	10.6	12.5	15.0
57	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.4	7.1	8.0	9.1	9.7	11.1	13.0	15.6
58	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.8	3.3	3.9	4.4	4.9	5.4	6.0	6.7	7.4	8.3	9.5	10.1	11.6	13.6	16.2
59	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.6	5.2	5.7	6.3	7.0	7.8	8.7	9.9	10.6	12.1	14.1	16.8
60	0.2	0.2	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.9	3.5	4.1	4.8	5.4	6.0	6.7	7.4	8.2	9.2	10.4	11.1	12.6	14.7	17.5
61	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.3	5.0	5.7	6.3	7.0	7.7	8.6	9.6	10.9	11.6	13.2	15.3	18.2
62	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	3.0	3.6	4.4	5.2	5.9	6.6	7.4	8.1	9.0	10.1	11.4	12.1	13.7	16.0	18.9
63	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.7	4.5	5.4	6.2	6.9	7.7	8.5	9.4	10.5	11.9	12.7	14.3	16.6	19.6
64	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.7	4.6	5.5	6.4	7.2	8.1	8.9	9.9	11.0	12.4	13.3	15.0	17.3	20.4
65	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.1	3.8	4.7	5.7	6.7	7.5	8.5	9.4	10.4	11.6	13.0	13.9	15.6	18.1	21.2
66	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.3	3.1	3.9	4.8	5.9	6.9	7.9	8.9	9.9	10.9	12.1	13.6	14.5	16.3	18.8	22.1
67	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.2	3.1	3.9	4.9	6.0	7.1	8.2	9.3	10.4	11.4	12.7	14.3	15.2	17.1	19.6	22.9
68	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.0	5.0	6.1	7.3	8.5	9.7	10.9	12.0	13.3	14.9	15.9	17.8	20.5	23.9
69	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.0	5.0	6.2	7.5	8.8	10.2	11.4	12.6	14.0	15.6	16.6	18.6	21.4	24.8
70	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.0	5.1	6.4	7.7	9.1	10.6	11.9	13.2	14.6	16.4	17.4	19.5	22.3	25.9
71	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.0	5.1	6.5	7.9	9.4	11.0	12.4	13.8	15.3	17.1	18.2	20.3	23.2	26.9
72	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.8	3.9	5.2	6.6	8.0	9.6	11.4	12.9	14.5	16.1	17.9	19.0	21.3	24.2	28.0
73	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.8	3.9	5.2	6.7	8.2	9.9	11.8	13.5	15.2	16.8	18.8	19.9	22.2	25.3	29.2
74	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	6.8	8.3	10.1	12.2	14.1	15.8	17.6	19.7	20.8	23.3	26.4	30.4
75	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	6.8	8.5	10.3	12.6	14.6	16.5	18.5	20.6	21.8	24.3	27.6	31.7
76	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.2	6.9	8.6	10.5	12.9	15.1	17.2	19.4	21.6	22.8	25.4	28.8	33.0
77	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	7.0	8.7	10.7	13.2	15.6	17.9	20.2	22.6	23.8	26.5	30.0	34.4
78	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.6	5.0	7.0	8.8	10.9	13.6	16.1	18.6	21.1	23.7	25.0	27.7	31.3	35.8
79	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.6	3.6	5.0	7.0	8.9	11.1	13.8	16.5	19.3	21.9	24.8	26.1	29.0	32.7	37.4
80	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.5	4.9	6.9	9.0	11.2	14.1	17.0	19.9	22.8	25.9	27.4	30.3	34.2	38.9
81	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.9	6.9	9.1	11.4	14.3	17.4	20.6	23.8	27.0	28.6	31.7	35.7	40.6
82	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.4	4.8	6.7	9.1	11.5	14.6	17.8	21.2	24.7	28.1	30.0	33.2	37.3	42.3
83	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.6	9.0	11.7	14.8	18.1	21.8	25.6	29.3	31.2	34.7	38.9	44.2
84	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.5	9.0	11.8	15.0	18.5	22.3	26.4	30.5	32.5	36.3	40.7	46.1
85	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.6	6.4	8.8	11.8	15.2	18.8	22.8	27.2	31.7	33.8	38.0	42.5	48.1
86	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.5	6.3	8.6	11.8	15.3	19.1	23.3	28.0	33.0	35.2	39.6	44.4	50.2
87	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.5	11.7	15.1	19.4	23.8	28.8	34.1	36.6	41.2	46.4	52.3
88	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.1	8.4	11.6	15.7	19.7	24.2	29.5	35.2	38.0	42.9	48.5	54.6
89	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.3	11.4	15.8	19.9	24.6	30.2	36.3	39.3	44.6	50.7	57.0
90	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.2	6.0	8.1	11.2	15.8	20.2	25.0	30.8	37.3	40.6	46.4	52.9	59.6
91	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.0	11.0	15.7	20.4	25.4	31.4	38.3	41.8	48.2	55.0	62.2
92	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	7.9	10.9	15.6	20.5	25.7	31.9	39.2	43.0	50.0	57.2	65.0
93	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.7	7.8	10.7	15.4	20.6	26.1	32.5	40.1	44.1	51.7	59.5	67.9
94	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.6	7.7	10.6	15.1	20.6	26.4	33.0	41.0	45.2	53.3	61.8	70.7
95	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.6	10.4	14.8	20.3	26.7	33.5	41.7	46.2	54.8	64.2	73.5
96	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.4	7.5	10.3	14.6	20.3	26.8	33.9	42.4	47.2	56.3	66.6	76.4
97	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.3	7.4	10.2	14.4	19.9	26.9	34.4	43.2	48.0	57.8	68.8	79.4
98	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.6	5.2	7.3	10.1	14.2	19.6	26.9	34.8	43.9	48.9	59.1	70.9	82.4
99	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.6	5.1	7.1	9.9	13.9	19.3	26.7	35.1	44.5	49.7	60.5	73.0	85.6
100	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	5.0	7.0	9.8	13.9	19.0	26.4	35.3	44.5	50.5	61.7	74.9	88.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 5 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.1	2.5	3.0	3.5	4.0	4.5	4.9	5.5
52	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.1	2.6	3.1	3.7	4.2	4.7	5.2	5.8
53	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	4.9	5.5	6.1
54	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.7	3.3	3.9	4.6	5.2	5.7	6.4
55	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.7	3.3	4.0	4.8	5.4	6.0	6.7
56	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.2	2.8	3.4	4.1	4.9	5.6	6.3	7.1
57	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.8	3.5	4.2	5.1	5.9	6.6	7.4
58	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.3	5.3	6.1	6.9	7.8
59	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.6	4.4	5.4	6.4	7.2	8.2
60	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.6	4.5	5.5	6.6	7.6	8.6
61	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.9	3.7	4.6	5.7	6.8	7.9	9.0
62	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	2.0	2.8	3.7	4.7	5.8	7.0	8.2	9.4
63	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.7	4.7	5.9	7.1	8.4	9.8
64	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.8	6.0	7.3	8.7	10.2
65	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.8	6.1	7.4	8.9	10.6
66	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.9	6.2	7.6	9.2	11.0
67	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.6	4.9	6.3	7.7	9.4	11.3
68	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.9	6.3	7.9	9.6	11.7
69	0.1	0.2	0.2	0.3	0.4	0.7	0.9	1.3	1.8	2.5	3.5	4.9	6.4	8.0	9.8	12.0
70	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.4	4.8	6.4	8.1	10.0	12.3
71	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.3	4.7	6.5	8.2	10.1	12.6
72	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.2	4.6	6.4	8.3	10.3	12.9
73	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.2	4.5	6.4	8.4	10.4	13.1
74	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.5	6.3	8.4	10.6	13.3
75	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.1	8.4	10.7	13.6
76	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.4	10.8	13.8
77	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.9	8.2	10.9	14.0
78	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.0	4.2	5.8	8.1	10.9	14.2
79	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.7	7.9	10.9	14.3
80	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.7	7.8	10.8	14.3
81	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.6	7.7	10.7	14.6
82	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.6	7.6	10.4	14.6
83	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.5	7.5	10.3	14.6
84	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.4	7.4	10.1	14.5
85	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.6	3.7	5.2	7.2	9.8	14.0
86	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.2	7.2	9.8	14.0
87	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.1	7.1	9.7	13.8
88	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	5.0	7.0	9.6	13.6
89	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.9	6.9	9.5	13.4
90	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.5	13.2
91	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.6	9.2	13.0
92	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.7	6.5	9.1	12.9
93	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.6	6.4	9.0	12.7
94	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.5	6.3	8.8	12.6
95	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.6	12.4
96	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.0	8.5	12.2
97	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	5.9	8.3	12.0
98	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.2	11.8
99	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.0	5.7	8.0	11.6
100	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	4.0	5.6	7.9	11.4

TEMPERATURE, °F

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ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 6 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	T	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.2	3.9	4.7	5.4	6.0	6.8	7.5	8.3	9.2	10.5	11.2	12.7	14.8	17.5
52	E	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.3	4.0	4.9	5.6	6.3	7.1	7.8	8.7	9.7	11.0	11.7	13.3	15.4	18.2
53	M	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.7	3.3	4.1	5.0	5.9	6.6	7.5	8.3	9.1	10.2	11.5	12.3	13.9	16.1	19.0
54	P	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.0	2.7	3.4	4.2	5.1	6.1	6.9	7.9	8.7	9.6	10.7	12.1	12.8	14.5	16.8	19.8
55	E	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.4	4.3	5.3	6.3	7.2	8.2	9.2	10.1	11.2	12.7	13.5	15.2	17.5	20.6
56	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.3	5.4	6.5	7.5	8.6	9.6	10.6	11.8	13.3	14.1	15.9	18.3	21.5
57	A	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.4	5.5	6.6	7.8	9.0	10.1	11.2	12.4	13.9	14.8	16.6	19.1	22.4
58	T	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.5	4.5	5.6	6.8	8.1	9.4	10.6	11.7	13.0	14.6	15.5	17.4	20.0	23.3
59	E	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.5	4.5	5.7	6.9	8.3	9.8	11.1	12.4	13.7	15.3	16.3	18.2	20.9	24.3
60	M	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.1	8.5	10.2	11.6	13.0	14.4	16.1	17.1	19.1	21.8	25.3
61	P	0.1	0.2	0.2	0.3	0.4	0.7	0.9	1.3	1.8	2.5	3.4	4.6	5.9	7.2	8.8	10.5	12.1	13.6	15.1	16.9	17.9	20.0	22.8	26.4
62	E	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.6	5.9	7.3	9.0	10.9	12.6	14.2	15.9	17.7	18.7	20.9	23.9	27.6
63	R	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.5	6.1	7.5	9.1	11.2	13.1	14.8	16.7	18.6	19.7	21.9	25.0	28.8
64	A	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.5	6.1	7.6	9.3	11.5	13.5	15.4	17.3	19.5	20.6	23.0	26.1	30.0
65	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.1	7.7	9.5	11.8	13.9	16.1	18.2	20.5	21.6	24.1	27.3	31.3
66	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.1	4.3	6.1	7.8	9.6	12.0	14.4	16.7	19.0	21.5	22.7	25.2	28.5	32.7
67	M	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.0	4.2	5.9	7.9	9.9	12.5	15.1	17.9	20.7	23.5	24.9	27.7	31.2	35.6
68	P	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	5.9	7.9	10.0	12.7	15.5	18.4	21.3	24.5	26.1	29.0	32.7	37.2
69	E	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.1	5.8	7.9	10.0	12.7	15.5	18.4	21.3	24.5	26.1	29.0	32.7	37.2
70	R	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.7	7.8	10.1	12.9	15.8	19.0	22.3	25.6	27.3	30.4	34.2	38.9
71	A	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.0	5.6	7.8	10.2	13.1	16.1	19.5	23.1	26.7	28.4	31.8	35.7	40.6
72	T	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.5	7.6	10.2	13.3	16.4	19.5	23.8	27.8	29.6	33.3	37.4	42.6
73	E	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.5	10.2	13.4	16.6	20.3	24.5	28.9	30.9	34.8	39.1	44.3
74	M	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.8	5.3	7.3	10.2	13.6	16.9	20.7	25.1	29.9	32.1	36.3	41.0	46.3
75	P	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.3	7.2	10.0	13.7	17.1	21.1	25.8	30.9	33.4	37.8	42.9	48.4
76	E	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.2	7.1	9.8	13.7	17.4	21.5	26.4	31.8	34.5	39.3	44.9	50.6
77	R	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.0	9.6	13.7	17.6	21.8	26.9	32.7	35.6	40.9	46.8	52.9
78	A	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.1	6.9	9.5	13.6	17.7	22.1	27.4	33.6	36.7	42.6	48.7	55.3
79	T	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.0	6.8	9.3	13.4	17.8	22.4	27.9	33.6	37.7	44.1	50.7	57.8
80	E	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.9	6.7	9.2	13.1	17.8	22.7	28.4	35.1	38.7	45.5	52.7	60.4
81	M	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.8	6.6	9.1	12.9	17.8	23.0	28.8	35.8	39.6	46.9	54.8	62.8
82	P	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.5	9.0	12.7	17.6	23.1	29.2	36.5	40.5	48.3	57.0	65.4
83	E	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.6	6.4	8.9	12.5	17.4	23.2	29.6	37.1	41.3	49.6	58.9	68.0
84	R	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.6	2.2	3.2	4.5	6.3	8.7	12.3	17.0	23.2	30.0	37.7	42.0	50.8	60.8	70.6
85	A	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.2	8.6	12.2	16.7	23.1	30.3	38.3	42.8	52.0	62.6	73.4
86	T	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.3	6.1	8.5	12.0	16.5	22.9	30.5	38.9	43.5	53.1	64.4	76.2
87	E	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.0	8.3	11.9	16.3	22.5	30.6	39.4	44.2	54.0	66.1	78.8
88	M	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	5.9	8.2	11.7	16.0	22.1	30.6	38.8	44.8	55.0	67.7	81.3
89	P	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.7	8.0	11.6	15.8	21.7	30.4	40.3	45.4	55.9	69.3	83.7
90	E	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.4	1.9	2.8	4.0	5.6	7.9	11.4	15.6	21.4	30.1	40.6	45.9	56.8	70.7	86.0
91	R	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.5	7.8	11.2	15.5	21.1	29.6	40.7	46.4	57.7	72.0	88.2
92	A	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.7	3.9	5.4	7.6	11.0	15.3	20.8	29.0	40.7	46.7	58.5	73.2	90.3
93	T	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6	3.8	5.3	7.5	10.8	15.0	20.6	28.6	40.5	46.9	59.2	74.5	92.4
94	E	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.7	5.2	7.3	10.6	14.8	20.3	28.2	40.1	46.9	59.9	75.7	94.2
95	M	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5	3.6	5.1	7.2	10.4	14.6	20.1	27.8	38.4	46.6	60.5	76.8	96.0
96	P	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.5	5.0	7.0	10.2	14.3	19.8	27.4	38.7	46.1	60.8	77.8	97.6
97	E	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.5	4.9	6.9	10.0	14.1	19.6	27.1	38.1	45.4	61.0	78.8	99.3
98	R	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.4	4.8	6.8	9.9	13.8	19.3	26.8	37.6	44.6	60.9	79.7	100.8
99	A	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.6	9.7	13.6	18.9	26.5	37.1	43.9	60.5	80.5	102.3
100	T	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.3	4.6	6.5	9.5	13.3	18.6	26.2	36.6	43.3	59.8	81.0	103.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 7 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	I	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.3	4.1	5.1	6.0	7.0	8.0	8.9	9.8	11.0	12.3	13.1	14.8	17.1	20.1
52	E	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.3	4.2	5.2	6.2	7.3	8.4	9.4	10.4	11.5	12.9	13.8	15.5	17.9	21.0
53	P	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.6	2.5	3.3	4.2	5.3	6.4	7.5	8.6	9.6	10.9	12.1	13.6	14.4	16.3	18.7	21.9
54	M	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.5	3.3	4.3	5.4	6.6	7.8	9.2	10.3	11.5	12.7	14.3	15.2	17.0	19.6	22.8
55	R	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.3	5.5	6.7	8.0	9.5	10.8	12.1	13.4	15.0	15.9	17.8	20.5	23.8
56	F	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.5	6.8	8.2	9.9	11.3	12.7	14.1	15.7	16.7	18.7	21.4	24.8
57	A	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.6	6.9	8.4	10.2	11.8	13.2	14.8	16.5	17.5	19.6	22.4	25.9
58	U	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.1	4.4	5.7	7.1	8.6	10.5	12.3	13.8	15.6	17.4	18.4	20.5	23.4	27.0
59	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.7	7.2	8.8	10.8	12.7	14.5	16.3	18.2	19.3	21.5	24.5	28.2
60	P	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.8	7.4	9.1	11.1	13.1	15.1	17.1	19.2	20.3	22.6	25.6	29.5
61	M	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.0	4.1	5.8	7.4	9.1	11.4	13.5	15.7	17.8	20.1	21.3	23.7	26.8	30.8
62	R	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.1	5.7	7.4	9.3	11.6	13.9	16.3	18.6	21.1	22.3	24.8	28.1	32.2
63	F	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.7	7.5	9.4	11.8	14.3	16.9	19.4	22.1	23.4	26.0	29.4	33.6
64	A	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.1	2.8	3.9	5.5	7.5	9.5	12.0	14.6	17.4	20.3	23.1	24.6	27.3	30.8	35.1
65	U	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.5	9.6	12.2	14.9	17.9	21.1	24.1	25.7	28.6	32.2	36.7
66	E	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.3	7.4	9.7	12.4	15.2	18.4	21.6	25.1	26.8	30.0	33.7	38.3
67	P	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.2	7.3	9.7	12.6	15.5	18.8	22.5	26.2	27.9	31.4	35.3	40.1
68	M	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.7	5.2	7.1	9.7	12.7	15.8	19.3	23.2	27.3	29.1	32.9	37.0	41.9
69	R	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.6	5.1	7.0	9.7	12.9	16.0	19.6	23.8	28.3	30.4	34.3	38.7	43.8
70	F	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	5.0	6.9	9.5	13.0	16.2	20.0	24.4	29.2	31.6	35.7	40.6	45.8
71	A	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	6.8	9.3	13.0	16.4	20.3	25.0	30.1	32.7	37.2	42.5	47.9
72	U	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.9	6.7	9.2	13.0	16.6	20.7	25.5	31.0	33.7	38.8	44.3	50.1
73	E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.6	9.0	12.9	16.8	21.0	26.0	31.8	34.8	40.3	46.1	52.4
74	P	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.5	8.9	12.7	16.9	21.3	26.4	32.6	35.8	41.8	48.1	54.8
75	M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.6	6.4	8.7	12.5	16.9	21.5	26.9	33.3	36.7	43.2	50.0	57.4
76	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.5	6.3	8.6	12.2	16.9	21.8	27.3	34.0	37.6	44.5	52.0	59.7
77	F	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.2	8.5	12.0	16.7	21.9	27.7	34.6	38.4	45.8	54.1	62.1
78	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.1	8.4	11.9	16.4	22.0	28.1	35.2	39.2	47.1	56.0	64.6
79	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.0	8.3	11.7	16.1	22.0	28.4	35.8	39.9	48.2	57.8	67.2
80	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	5.9	8.1	11.5	15.8	21.9	28.7	36.4	40.6	49.3	59.5	69.9
81	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.6	7.9	11.2	15.4	21.3	29.0	37.3	41.9	51.3	62.8	75.0
82	M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.6	7.9	11.2	15.4	21.3	29.0	37.3	41.9	51.3	62.8	75.0
83	R	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.6	0.9	1.4	1.9	2.7	3.9	5.5	7.7	11.1	15.1	20.9	28.9	37.8	42.5	52.2	64.4	77.3
84	F	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.9	5.4	7.6	10.9	14.9	20.5	28.8	38.2	43.0	53.1	65.8	79.6
85	A	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.8	5.3	7.5	10.7	14.8	20.2	28.4	38.4	43.5	54.0	67.2	81.8
86	U	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.3	10.6	14.6	20.0	27.9	38.5	44.0	54.7	68.4	83.9
87	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.1	7.2	10.4	14.4	19.7	27.4	38.5	44.3	55.5	69.6	86.0
88	P	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	5.0	7.0	10.2	14.2	19.4	27.0	38.3	44.4	56.2	70.8	87.9
89	M	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.9	6.9	10.0	13.9	19.2	26.6	37.8	44.3	56.8	71.9	89.6
90	R	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.4	4.8	6.8	9.8	13.5	19.0	26.2	37.1	44.0	57.3	72.9	91.2
91	F	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.6	9.6	13.5	18.7	25.9	36.5	43.5	57.6	73.9	92.8
92	A	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.3	4.6	6.5	9.5	13.2	18.4	25.6	35.9	42.7	57.7	74.8	94.3
93	U	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.2	4.5	6.4	9.3	13.0	18.1	25.3	35.4	42.0	57.6	75.6	95.8
94	E	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.2	9.1	12.8	17.8	25.0	35.0	41.4	57.1	76.3	97.2
95	P	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.1	4.3	6.1	8.9	12.5	17.5	24.6	34.5	40.8	56.3	76.7	98.5
96	M	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	3.0	4.2	6.0	8.8	12.3	17.2	24.3	34.1	40.3	55.2	76.8	99.7
97	R	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.9	4.2	5.8	8.6	12.1	16.9	23.9	33.7	39.7	54.4	76.7	100.8
98	F	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.8	4.1	5.7	8.4	11.8	16.6	23.5	33.3	39.3	53.7	76.1	101.7
99	A	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.4	1.9	2.8	4.0	5.6	8.2	11.6	16.3	23.1	32.9	38.8	52.9	75.1	102.3
100	U	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.4	1.9	2.7	3.9	5.5	8.1	11.4	16.0	22.7	32.4	38.4	52.2	73.7	102.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 8 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6
2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6
3	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7
4	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7
5	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8
6	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
7	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
8	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.0
9	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.1
10	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.1
11	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.1
12	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.0	1.1
13	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.2
14	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.2
15	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3
16	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4
17	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.5
18	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.4	1.6
19	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6
20	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7
21	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8
22	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7
23	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8
24	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9
25	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0
26	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.1
27	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3
28	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.6
29	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.7
30	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.9
31	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.5	2.7	3.0
32	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.5	2.7	3.0
33	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2
34	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4
35	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.6
36	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.8
37	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.4	2.8	3.3	3.6	4.0
38	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.2
39	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.6	4.1	4.5	5.0
40	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.8	2.3	2.8	3.3	3.8	4.3	4.7	5.2
41	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.9	2.3	2.8	3.4	4.0	4.5	5.0	5.5
42	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	1.9	2.4	2.9	3.5	4.2	4.7	5.3	5.8
43	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.3	4.9	5.5	6.1
44	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.3	4.9	5.5	6.1
45	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.5	3.1	3.8	4.6	5.4	6.1	6.8
46	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.9	4.7	5.6	6.4	7.2
47	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.2	3.9	4.8	5.8	6.7	7.6
48	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.8	2.5	3.2	4.0	5.0	5.9	6.9	8.0
49	0.1	0.2	0.2	0.3	0.4	0.7	0.9	1.2	1.7	2.4	3.2	4.1	5.0	6.1	7.2	8.3
50	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.2	4.1	5.1	6.3	7.4	8.7

TEMPERATURE DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 0 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.2	5.2	6.4	7.7	9.1	10.3	11.5	12.7	14.3	15.1	17.0	19.5	22.8
52	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.3	6.5	7.9	9.4	10.7	12.1	13.4	15.0	15.9	17.8	20.4	23.8
53	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.4	6.6	8.1	9.7	11.2	12.6	14.1	15.8	16.7	18.7	21.4	24.8	
54	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.5	6.8	8.3	10.1	11.7	13.2	14.9	16.6	17.6	19.6	22.4	25.9	
55	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.0	4.1	5.5	6.9	8.4	10.3	12.1	13.8	15.6	17.4	18.4	20.6	23.5	27.1	
56	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.0	5.1	6.5	7.9	9.6	10.6	12.6	14.4	16.3	18.3	19.4	21.6	24.6	
57	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.0	5.5	7.0	8.7	10.9	13.0	15.1	17.1	19.3	20.3	22.7	25.7	29.6	
58	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.9	5.5	7.1	8.9	11.1	13.3	15.6	17.8	20.2	21.4	23.8	26.9	30.9	
59	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	2.0	2.8	3.8	5.4	7.2	9.0	11.3	13.7	16.2	18.6	21.2	22.5	24.9	28.2	32.3	
60	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	2.0	2.7	3.8	5.3	7.2	9.1	11.5	14.0	16.7	19.4	22.1	23.6	26.2	29.6	33.8	
61	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.7	3.7	5.2	7.1	9.2	11.7	14.3	17.2	20.2	23.1	24.7	27.5	31.0	35.3	
62	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.9	2.6	3.6	5.1	7.1	9.3	11.9	14.6	17.6	20.9	24.1	25.7	28.8	32.4	36.9	
63	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.8	2.6	3.6	5.0	6.9	9.3	12.0	14.9	18.1	21.6	25.2	26.9	30.2	34.0	38.6	
64	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.8	2.5	3.5	4.9	6.8	9.3	12.2	15.1	18.5	22.2	26.2	28.0	31.6	35.6	40.4	
65	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.2	1.8	2.5	3.5	4.9	6.7	9.2	12.4	15.6	19.2	23.4	28.1	29.2	33.0	37.3	42.3	
66	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.6	9.1	12.4	15.6	19.2	23.4	28.1	30.4	34.4	39.1	44.2	
67	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.7	6.5	8.9	12.4	15.8	19.5	24.0	28.9	31.4	35.9	41.0	46.3	
68	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.3	3.3	4.6	6.3	8.7	12.4	15.9	19.8	24.5	29.8	32.5	37.4	42.7	48.4	
69	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.6	6.3	8.6	12.3	16.1	20.1	24.9	30.6	33.5	38.9	44.6	50.7	
70	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.5	6.2	8.4	12.1	16.2	20.4	25.4	31.3	34.4	40.3	46.4	53.1	
71	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.1	8.3	11.8	16.2	20.6	25.8	32.0	35.3	41.6	48.3	55.5	
72	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.0	8.2	11.6	16.1	20.9	26.2	32.6	36.2	42.9	50.3	57.8	
73	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.9	8.1	11.5	15.9	21.0	26.6	33.2	36.9	44.1	52.3	60.1	
74	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.0	11.3	15.6	21.0	26.9	33.8	37.6	45.3	54.1	62.6	
75	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.7	7.9	11.1	15.3	21.0	27.2	34.4	38.3	46.4	55.8	65.1	
76	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.4	1.9	2.8	4.0	5.6	7.7	11.0	15.0	20.8	27.5	34.9	39.0	47.5	57.5	67.7	
77	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.7	3.9	5.5	7.6	10.8	14.8	20.6	27.6	35.4	39.6	48.4	59.0	70.2	
78	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.7	3.8	5.3	7.5	10.7	14.6	20.1	27.7	35.8	40.2	49.3	60.6	72.5	
79	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.3	10.5	14.4	19.8	27.6	36.2	40.7	50.2	62.0	74.8	
80	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.5	3.6	5.0	7.1	10.2	14.0	19.2	26.9	36.7	41.7	51.8	64.6	79.0	
81	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.5	4.9	6.9	10.0	13.9	18.9	26.4	36.8	42.1	52.5	65.7	81.0	
82	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.8	13.6	18.7	26.0	36.7	42.3	53.2	66.9	82.9	
83	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.3	3.3	4.7	6.6	9.6	13.4	18.4	25.6	36.3	42.3	53.9	68.0	84.7	
84	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.5	9.5	13.2	18.2	25.2	35.8	42.2	54.4	69.0	87.7	
85	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.2	4.5	6.4	9.3	13.0	18.0	24.9	35.1	41.8	54.8	70.0	87.7	
86	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.1	4.4	6.3	9.1	12.7	17.7	24.5	34.5	41.2	55.0	70.9	89.3	
87	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.2	8.9	12.5	17.4	24.2	34.0	40.3	55.0	71.7	90.7	
88	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.6	12.3	17.1	24.0	33.5	39.8	54.7	72.5	92.1	113.0	
89	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
90	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
91	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
92	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
93	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
94	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
95	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
96	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
97	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
98	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
99	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	
100	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.0	11.3	15.9	23.7	33.1	39.2	54.1	73.0	93.3	115.0	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 9 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	T	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.2	1.5	1.7	2.3	3.1	4.5
2	E	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.3	3.2	4.6
3	M	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.3	1.7	1.9	2.4	3.3	4.7
4	P	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.0	1.1	1.4	1.8	2.0	2.6	3.5	4.9
5	E	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.8	2.1	2.7	3.6	5.0
6	R	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.9	2.2	2.8	3.7	5.2
7	A	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	2.0	2.2	2.9	3.8	5.3
8	T	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.9	2.2	2.9	3.8	5.4
9	E	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.7	2.1	2.3	3.0	3.9	5.6
10	R	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.8
11	A	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.5	3.2	4.2
12	T	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.7	2.0	2.4	2.7	3.3	4.3
13	E	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.4	2.8	3.4	4.5
14	R	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.6	2.9	3.6	4.6	6.2
15	A	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.9	2.2	2.6	3.0	3.7	4.8	6.4
16	T	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.9	3.2	3.9	5.0	6.6
17	E	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	3.0	3.3	4.0	5.1
18	R	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.9	2.1	2.3	2.6	3.2	3.5	4.2	5.3
19	A	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5
20	T	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.8
21	E	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.1	2.3	2.7	3.1	3.6	4.0	4.8	6.0
22	R	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.2	3.8	4.2	5.0	6.2
23	A	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.1	2.3	2.6	3.0	3.4	4.0	4.4	5.2	6.5
24	T	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7
25	E	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.2	2.6	2.9	3.3	3.8	4.4	4.8	5.7	7.0
26	R	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.4	2.7	3.1	3.5	4.0	4.6	5.0	5.9	7.3
27	A	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.6	9.5
28	T	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.6	1.8	2.0	2.2	2.5	2.7	3.1	3.4	3.9	4.4	5.1	5.5	6.5	7.9	9.9
29	E	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.6	4.1	4.7	5.4	5.8	6.8	8.2	10.3
30	R	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.8	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.7	6.1	7.1	8.6	10.6
31	A	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.6	4.1	4.5	5.2	6.0	6.4	7.5	9.0
32	T	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.3	2.5	2.8	3.1	3.4	3.9	4.3	4.8	5.4	6.3	6.7	7.8	9.4
33	E	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4	2.6	2.8	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.9	7.4	8.6	10.2
34	R	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.4	2.6	2.8	3.2	3.5	3.9	4.3	4.8	5.5	6.4	7.3	7.8	9.0	10.7
35	A	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.5	3.0	3.3	3.7	4.1	4.6	5.1	5.6	6.4	7.3	7.8	9.0	10.7	12.9
36	T	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.6	3.1	3.5	3.9	4.3	4.8	5.4	5.9	6.7	7.6	8.2	9.4	11.1	13.5
37	E	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.3	7.1	8.0	8.6	9.9	11.6	14.0
38	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.3	3.9	4.3	4.8	5.4	5.9	6.6	7.4	8.4	9.0	10.3	12.7	15.2
39	A	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.6	5.1	5.7	6.3	7.0	7.8	8.9	9.5	10.8	13.3	15.9
40	T	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.9	3.5	4.2	4.8	5.4	6.0	6.6	7.4	8.2	9.3	10.0	11.4	13.9	16.6
41	E	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	2.9	3.6	4.3	5.0	5.6	6.4	7.0	7.8	8.7	9.8	10.5	11.9	14.6	17.3
42	R	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.3	1.8	2.4	3.0	3.6	4.3	5.2	5.9	6.7	7.4	8.2	9.1	10.3	11.0	12.5	14.6	17.3
43	A	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.6	4.3	5.2	5.9	6.7	7.4	8.2	9.3	10.0	11.4	13.9	16.6
44	T	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.6	4.3	5.2	5.9	6.7	7.4	8.2	9.3	10.0	11.4	13.9	16.6
45	E	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.1	3.8	4.7	5.6	6.5	7.4	8.2	9.1	10.1	11.4	12.2	13.8	15.9
46	R	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.1	3.9	4.8	5.8	6.8	7.8	8.7	9.6	10.7	12.0	12.8	14.4	16.7	19.6
47	A	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.1	3.9	4.9	5.9	7.0	8.1	9.1	10.1	11.3	12.6	13.4	15.2	17.5
48	T	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.1	4.0	5.0	6.1	7.2	8.5	9.6	10.7	11.9	13.3	14.1	15.9	18.3
49	E	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.0	5.1	6.3	7.5	8.9	10.0	11.3	12.5	14.0	14.9	16.7	19.2
50	R	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.0	5.1	6.3	7.7	9.2	10.5	11.8	13.2	14.7	15.6	17.5	20.1
50	A	0.1	0.1	0.2	0.3	0.4	0.4	0.8	1.1	1.5	2.1	3.0	4.0	5.2	6.4	7.9	9.5	11.0	12.4	13.9	15.5	16.4	18.4	21.0	24.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 10 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	Y	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.9	1.0	1.3	1.6	1.8	2.4	3.3	4.7
2	T	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.7	1.9	2.5	3.4	4.8
3	H	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.9	1.0	1.1	1.4	1.7	2.0	2.5	3.5	4.9
4	A	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.0	2.6	3.6	5.0
5	M	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.9	2.1	2.7	3.7	5.1
6	P	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	2.0	2.2	2.8	3.8	5.2
7	E	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.7	2.1	2.3	2.9	3.9	5.4
8	R	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.8	2.2	2.4	3.0	4.0	5.5
9	A	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	2.0	2.3	2.5	3.2	4.2	5.7
10	T	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.8
11	H	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.5	2.8	3.4	4.4	6.0
12	M	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.9	3.5	4.6	6.2
13	P	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.3	2.7	3.0	3.7	4.8	6.3
14	E	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.1	2.5	2.8	3.1	3.8	4.9	6.5
15	R	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.9	2.2	2.5	3.0	3.3	4.0	5.1	6.7
16	A	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	7.0
17	T	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
18	H	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.9	2.2	2.5	2.9	3.5	3.8	4.6	5.7	7.4
19	M	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.3	1.5	1.6	1.8	2.1	2.3	2.7	3.1	3.6	4.0	4.8	6.0	7.7
20	P	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.8	3.2	3.6	4.2	4.8	6.0	7.7
21	E	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.0	2.3	2.6	3.0	3.4	4.0	4.4	5.2	6.4	8.2
22	R	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.5
23	A	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.8	4.4	4.8	5.7	7.0	8.8
24	T	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.1	3.5	4.0	4.6	5.0	5.9	7.3	9.2
25	H	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.6	9.5
26	M	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.5	2.7	3.1	3.4	3.9	4.4	5.1	5.6	6.5	7.9	9.9
27	P	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.6	2.9	3.3	3.6	4.1	4.7	5.4	5.8	6.8	8.2	10.3
28	E	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.7	6.1	7.1	8.6	10.7
29	R	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.1	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	9.0	11.1
30	A	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.9	3.1	3.5	3.9	4.3	4.8	5.5	6.3	6.8	7.8	9.4	11.5
31	T	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	12.0
32	H	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.1	2.4	2.8	3.2	3.5	3.9	4.3	4.8	5.4	6.1	6.9	7.5	8.6	10.2	12.5
33	M	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.4	3.7	4.1	4.6	5.1	5.7	6.4	7.3	7.8	9.0	10.7	13.0
34	P	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.6	3.1	3.5	3.9	4.4	4.9	5.4	6.0	6.7	7.7	8.2	9.5	11.2	13.5
35	E	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.2	2.7	3.2	3.7	4.2	4.6	5.1	5.7	6.3	7.1	8.1	8.7	9.9	11.7	14.1
36	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.9	4.4	4.9	5.4	6.0	6.7	7.5	8.5	9.1	10.4	12.2	14.7
37	A	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.6	5.1	5.7	6.3	7.0	7.9	9.0	9.6	10.9	12.8	15.3
38	T	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.2	4.8	5.4	6.1	6.7	7.4	8.3	9.4	10.1	11.5	13.4	16.0
39	M	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.3	5.0	5.7	6.4	7.1	7.8	8.8	9.9	10.6	12.0	14.0	16.7
40	P	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	2.9	3.6	4.4	5.2	6.0	6.8	7.5	8.3	9.2	10.4	11.1	12.6	14.7	17.4
41	E	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.0	3.7	4.5	5.4	6.3	7.1	7.9	8.7	9.7	11.0	11.7	13.3	15.4	18.2
42	R	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.3	3.0	3.7	4.6	5.6	6.5	7.5	8.6	9.2	10.3	11.6	12.3	13.9	16.1	19.0	21.6
43	A	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.0	3.7	4.7	5.7	6.8	7.8	8.8	9.7	10.8	12.2	13.0	14.6	16.9	19.8
44	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	3.9	4.8	5.9	7.0	8.2	9.2	10.3	11.4	12.8	13.6	15.3	17.7	20.7
45	H	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.0	3.9	4.9	6.0	7.2	8.4	9.7	10.8	12.0	13.5	14.3	16.1	18.5	21.6
46	M	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.0	6.1	7.4	8.9	10.1	11.4	12.7	14.2	15.1	16.9	19.4	22.6
47	P	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	3.9	5.1	6.2	7.6	9.2	10.6	12.0	13.4	15.0	15.9	17.8	20.3	23.6
48	E	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.9	5.1	6.3	7.8	9.5	11.1	12.5	14.1	15.7	16.7	18.7	21.3	24.7
49	R	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.2	6.4	7.9	9.8	11.5	13.1	14.8	16.6	17.5	19.6	22.4	25.8
50	A	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2	6.5	8.1	10.0	11.9	13.7	15.5	17.5	18.5	20.6	23.4	27.0

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	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.2	6.6	8.2	10.2	12.2	14.3	16.2	18.4	19.4	21.6	24.6	28.3	
52	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.1	6.7	8.3	10.4	12.6	14.8	17.0	19.3	20.4	22.7	25.8	29.6	
53	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.5	5.0	6.7	8.4	10.6	12.9	15.3	17.8	20.2	21.5	23.9	27.0	31.0	
54	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.9	6.7	8.5	10.8	13.2	15.8	18.5	21.2	22.6	25.1	28.4	32.4	
55	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.4	4.8	6.6	8.6	11.0	13.5	16.3	19.2	22.1	23.6	26.4	29.7	33.9	
56	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.5	8.7	11.2	13.7	16.7	19.9	23.1	24.6	27.7	31.2	35.5	
57	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.4	8.7	11.3	14.0	17.1	20.5	24.1	25.7	29.1	32.7	37.2	
58	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	6.2	8.6	11.4	14.2	17.4	21.1	25.0	26.9	30.4	34.3	39.0	
59	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.5	6.1	8.5	11.5	14.4	17.8	21.7	25.9	28.0	31.7	36.0	40.8	
60	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.4	6.0	8.3	11.6	14.6	18.1	22.2	26.8	29.0	33.1	37.8	42.8	
61	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.3	5.9	8.1	11.5	14.8	18.4	22.7	27.6	30.0	34.5	39.5	44.8	
62	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	5.8	8.0	11.5	14.9	18.7	23.1	28.3	31.0	36.0	41.2	46.9	
63	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.2	5.7	7.9	11.3	15.0	18.9	23.5	29.0	31.9	37.3	43.0	49.2	
64	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	7.7	11.0	15.0	19.1	23.9	29.7	32.7	38.6	44.8	51.5	
65	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.6	7.6	10.8	14.9	19.4	24.3	30.3	33.6	39.8	46.7	53.7	
66	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.4	1.9	2.7	3.9	5.5	7.5	10.6	14.8	19.5	24.7	30.8	34.3	41.0	48.6	55.9	
67	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.4	7.4	10.5	14.5	19.5	25.0	31.4	35.0	42.1	50.3	58.2	
68	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.8	5.2	7.3	10.3	14.2	19.5	25.3	31.9	35.6	43.2	51.9	60.6		
69	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.2	10.1	13.9	19.3	25.5	32.4	36.2	44.1	53.5	63.1		
70	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.6	5.0	7.0	10.0	13.7	19.0	25.6	32.8	36.8	45.0	55.0	65.5		
71	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	6.9	9.9	13.5	18.6	25.6	33.3	37.3	45.8	56.4	67.6		
72	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.8	6.8	9.7	13.3	18.3	25.5	33.6	37.9	46.7	57.8	69.8		
73	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.4	4.7	6.6	9.6	13.1	18.0	25.3	33.9	38.3	47.5	59.0	71.8		
74	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.6	6.5	9.4	12.9	17.7	24.8	34.0	39.1	48.8	61.2	73.7		
75	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.5	6.4	9.2	12.8	17.5	24.3	34.0	39.1	48.8	61.2	75.6		
76	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.2	9.0	12.6	17.2	23.9	33.9	39.2	49.5	62.3	77.3		
77	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.1	4.4	6.1	8.9	12.4	17.0	23.6	33.5	39.2	50.0	63.3	78.9		
78	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.3	6.0	8.7	12.1	16.8	23.2	32.9	38.9	50.6	64.2	80.4		
79	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	5.9	8.5	11.9	16.5	22.9	32.3	38.5	50.8	65.1	81.8		
80	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.4	11.7	16.3	22.6	31.8	37.8	50.9	65.9	83.2		
81	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.8	4.0	5.6	8.2	11.5	16.0	22.3	31.3	37.1	50.8	66.7	84.5		
82	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.8	3.9	5.5	8.0	11.3	15.7	22.0	30.8	36.5	50.4	67.3	85.7		
83	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.7	3.8	5.4	7.9	11.0	15.5	21.7	30.4	36.0	49.7	67.7	86.9		
84	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.3	7.7	10.8	15.2	21.4	30.0	35.5	48.7	67.7	88.0		
85	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.6	3.7	5.1	7.6	10.6	14.9	21.0	29.7	35.0	47.9	67.6	88.9		
86	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.6	5.0	7.5	10.4	14.6	20.7	29.3	34.5	47.2	67.0	89.8		
87	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	4.9	7.3	10.2	14.3	20.3	28.9	34.1	46.6	66.1	90.2		
88	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.8	7.1	10.0	14.1	19.9	28.5	33.8	45.9	64.8	90.3		
89	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.3	4.7	6.9	9.8	13.8	19.6	28.0	33.3	45.3	63.8	90.1		
90	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.2	4.6	6.8	9.6	13.5	19.2	27.5	32.8	44.8	62.9	89.3		
91	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.2	4.5	6.7	9.4	13.3	18.9	27.1	32.3	44.3	62.1	88.1		
92	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.2	3.1	4.4	6.5	9.2	13.0	18.5	26.6	31.7	43.8	61.2	86.4		
93	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.2	3.0	4.3	6.4	9.0	12.8	18.2	26.1	31.2	43.1	60.4	85.2		
94	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	3.0	4.2	6.2	8.8	12.5	17.8	25.6	30.7	42.5	59.7	84.0		
95	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.9	4.1	6.1	8.7	12.2	17.5	25.2	30.1	41.8	59.1	82.9		
96	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.9	4.0	5.9	8.5	11.9	17.2	24.7	29.6	41.1	58.4	81.8		
97	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.8	4.0	5.8	8.3	11.7	16.8	24.2	29.0	40.5	57.6	80.7		
98	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.7	8.1	11.5	16.5	23.8	28.5	39.8	56.7	79.8		
99	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.7	0.9	1.1	1.5	2.0	2.8	3.8	5.6	7.9	11.3	16.1	23.4	28.0	39.1	55.9	79.0	
100	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.7	3.7	5.5	7.7	11.1	15.8	23.0	27.5	38.4	55.0	78.1	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 11 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																									
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.7	1.9	2.5	3.4	4.8		
2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.8	2.0	2.6	3.5	4.9		
3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.9	2.2	2.7	3.6	5.0		
4	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	2.0	2.3	2.9	3.8	5.3		
5	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	2.0	2.3	2.9	3.8	5.3		
6	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.4		
7	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.6		
8	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7		
9	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.5	5.9		
10	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.3	2.8	3.5	4.5	6.1		
11	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9		
12	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9		
13	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9		
14	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.3		
15	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
16	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
17	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
18	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
19	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
20	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
21	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
22	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
23	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
24	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
25	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
26	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
27	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6	9.1		
28	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
29	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
30	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
31	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
32	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
33	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
34	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
35	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
36	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
37	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
38	0.1	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.3	1.5	1.7	1.9	2.2	2.5	2.8	3.4	4.4	5.9	7.6		
39	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
40	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
41	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
42	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
43	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
44	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
45	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
46	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
47	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
48	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
49	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		
50	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.5	3.4	4.8		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 11 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	T	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.4	4.8	6.5	8.3	10.5	12.8	15.2	17.8	20.3	21.6	24.1	27.2	31.2
52	E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.7	6.5	8.4	10.6	13.0	15.7	18.5	21.2	22.6	25.3	28.6	32.6
53	R	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.4	8.4	10.8	13.3	16.1	19.1	22.2	23.7	26.6	30.0	34.2
54	E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	6.2	8.4	10.9	13.5	16.5	19.8	23.2	24.7	27.9	31.5	35.8
55	A	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.1	8.4	11.1	13.8	16.8	20.4	24.1	25.9	29.2	33.0	37.5
56	T	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.4	6.0	8.3	11.2	14.0	17.2	20.9	25.0	27.0	30.5	34.7	39.3
57	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.0	4.3	5.9	8.1	11.2	14.2	17.5	21.5	25.8	28.0	31.9	36.4	41.2
58	R	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.8	7.9	11.2	14.3	17.6	21.9	26.6	29.0	33.3	38.1	43.2
59	E	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.7	7.8	11.1	14.5	18.1	22.4	27.4	29.9	34.7	39.8	45.3
60	A	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.6	7.6	11.0	14.6	18.3	22.8	28.1	30.8	36.0	41.5	47.5
61	T	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.5	10.7	14.6	18.5	23.2	28.7	31.7	37.3	43.3	49.7
62	E	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.9	5.4	7.4	10.5	14.5	18.7	23.5	29.3	32.5	38.5	45.1	51.9
63	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.8	5.3	7.3	10.3	14.3	18.9	23.9	29.6	33.2	39.7	47.0	54.1
64	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.2	10.2	14.1	18.9	24.2	30.4	33.9	40.8	48.6	56.4
65	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.7	5.1	7.1	10.0	13.8	18.9	24.5	30.9	34.5	41.8	50.7	58.7
66	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.6	5.0	6.9	9.8	13.5	18.7	24.7	31.4	35.1	42.8	51.8	61.1
67	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.9	6.8	9.7	13.3	18.4	24.8	31.8	35.7	43.6	53.3	63.4
68	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.7	9.6	13.1	18.0	24.8	32.2	36.2	44.4	54.7	65.6
69	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.6	9.4	12.9	17.7	24.7	32.6	36.7	45.2	56.0	67.6
70	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.6	6.4	9.3	12.7	17.4	24.5	32.9	37.1	46.0	57.2	69.6
71	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.2	4.5	6.3	9.1	12.5	17.2	24.0	33.0	37.5	46.7	58.3	71.5
72	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.2	8.9	12.4	16.9	23.5	33.0	37.8	47.3	59.3	73.3
73	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.0	8.7	12.2	16.6	23.2	32.8	37.9	47.9	60.4	75.0
74	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	5.9	8.6	11.9	16.4	22.8	32.4	37.9	48.5	61.4	76.6
75	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.4	11.7	16.2	22.4	31.8	37.2	49.0	62.3	78.0
76	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.7	8.2	11.5	16.0	22.1	31.2	37.2	49.2	63.1	79.3
77	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.6	8.1	11.3	15.7	21.8	30.7	36.5	49.3	63.9	80.7
78	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.4	7.9	11.1	15.5	21.5	30.2	35.8	49.1	64.6	82.0
79	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.7	3.7	5.3	7.7	10.9	15.2	21.3	29.8	35.3	48.7	65.2	83.1
80	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.7	5.2	7.6	10.7	14.9	21.0	29.4	34.8	48.0	65.5	84.2
81	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5	3.6	5.1	7.4	10.4	14.6	20.6	29.0	34.3	47.0	65.5	85.3
82	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5	3.5	5.0	7.3	10.2	14.4	20.3	28.6	33.8	46.3	65.3	86.2
83	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4	3.4	4.9	7.1	10.0	14.1	19.9	28.3	33.4	45.6	64.7	86.9
84	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.4	3.4	4.8	7.0	9.8	13.8	19.6	27.9	33.0	44.9	63.8	87.3
85	A	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.8	9.7	13.5	19.2	27.4	32.6	44.3	62.5	87.3
86	T	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.2	4.6	6.7	9.5	13.3	18.9	27.0	32.1	43.7	61.6	87.0
87	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.1	4.5	6.5	9.2	13.0	18.5	26.5	31.6	43.2	60.7	86.2
88	R	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.0	4.3	6.4	9.0	12.8	18.2	26.1	31.1	42.7	59.8	84.9
89	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.2	6.3	8.8	12.5	17.8	25.6	30.6	42.2	59.0	83.3
90	A	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.1	6.1	8.6	12.3	17.5	25.1	30.0	41.6	58.3	82.1
91	T	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.0	6.0	8.5	12.0	17.1	24.7	29.5	40.9	57.6	81.0
92	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.0	5.9	8.3	11.7	16.8	24.2	29.0	40.3	57.0	79.9
93	R	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	3.9	5.7	8.2	11.5	16.5	23.8	28.5	39.6	56.3	78.8
94	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.7	3.8	5.6	8.0	11.3	16.2	23.3	27.9	38.9	55.5	77.9
95	A	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	2.0	2.7	3.7	5.5	7.8	11.0	15.8	22.9	27.4	38.3	54.6	77.0
96	T	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7	3.7	5.3	7.6	10.9	15.5	22.5	26.9	37.6	53.8	76.2
97	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6	3.6	5.2	7.4	10.6	15.2	22.1	26.4	36.9	52.9	75.2
98	R	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6	3.5	5.1	7.3	10.4	14.9	21.6	25.9	36.2	52.0	74.2
99	E	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.5	5.0	7.1	10.2	14.6	21.2	25.5	35.6	51.1	73.1
100	A	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.5	4.9	7.0	9.9	14.3	20.7	25.0	34.9	50.3	72.0

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 12 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	9	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.9	1.0	1.2	1.4	1.8	2.0	2.4	3.5	5.0
2	10	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.9	2.1	2.7	3.7	5.1
3	11	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	2.0	2.2	2.8	3.8	5.2
4	12	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.1	1.3	1.5	1.8	2.2	2.4	3.0	4.0	5.5
5	13	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	1.8	2.3	2.5	3.2	4.2	5.7
6	14	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.8
7	15	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.8
8	16	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.0
9	17	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
10	18	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
11	19	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
12	20	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
13	21	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
14	22	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
15	23	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
16	24	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
17	25	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
18	26	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
19	27	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
20	28	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
21	29	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
22	30	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
23	31	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
24	32	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
25	33	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
26	34	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
27	35	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
28	36	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
29	37	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
30	38	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
31	39	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
32	40	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
33	41	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
34	42	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
35	43	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
36	44	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
37	45	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
38	46	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
39	47	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
40	48	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
41	49	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
42	50	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
43		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
44		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
45		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
46		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
47		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
48		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
49		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4
50		0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.4	3.0	4.0	6.4

TEMPERATURE • DFGRE • SFAHNF

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 12 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.1	8.2	10.6	13.1	15.9	18.9	22.1	23.6	26.5	29.9	34.1
52	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.2	10.7	13.3	16.2	19.5	23.0	24.6	27.8	31.4	35.7	
53	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.1	10.8	13.5	16.6	20.1	23.9	25.7	29.1	33.0	37.5	
54	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.2	5.8	8.0	10.9	13.7	16.9	20.6	24.8	26.8	30.4	34.7	39.3	
55	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.7	7.8	10.9	13.9	17.2	21.1	25.6	27.8	31.8	36.4	41.2	
56	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.6	7.6	10.9	14.0	17.5	21.6	26.3	28.7	33.2	38.0	43.7		
57	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.5	10.8	14.1	17.7	22.0	27.0	29.6	34.5	39.7	45.3		
58	0.1	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.9	5.4	7.4	10.5	14.2	17.9	22.4	27.7	30.5	35.8	41.4	47.5		
59	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.3	7.2	10.3	14.1	18.2	22.8	28.3	31.3	37.0	43.2	49.7		
60	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.1	10.1	14.0	18.3	23.1	28.6	32.0	38.2	45.0	51.8		
61	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.1	7.0	9.9	13.8	18.4	23.4	29.4	32.7	39.3	46.7	54.0		
62	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.0	6.9	9.8	13.5	18.4	23.7	29.9	33.3	40.3	48.3	56.3		
63	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.9	6.8	9.6	13.2	18.1	24.0	30.4	33.9	41.3	49.9	58.6		
64	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.7	9.5	13.0	18.0	24.1	30.8	34.5	42.2	51.3	61.0		
65	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.7	6.5	9.3	12.8	17.7	24.2	31.2	35.0	42.9	52.7	63.1		
66	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.6	6.4	9.2	12.6	17.3	24.1	31.6	35.5	43.7	54.0	65.2		
67	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.6	2.2	3.2	4.5	6.3	9.0	12.4	17.0	23.9	31.9	36.0	44.5	55.3	67.1		
68	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.4	6.1	8.9	12.2	16.7	23.5	32.0	36.4	45.2	56.4	69.0		
69	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.1	4.3	6.0	8.7	12.1	16.5	23.0	32.0	36.7	45.8	57.4	70.8		
70	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	5.9	8.5	11.9	16.2	22.6	31.9	36.8	46.4	58.4	72.5		
71	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.4	11.7	16.0	22.2	31.6	36.8	47.0	59.4	74.1		
72	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.6	8.2	11.4	15.8	21.9	31.0	36.3	47.5	60.3	75.5		
73	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.8	3.9	5.5	8.0	11.2	15.6	21.5	30.4	36.3	47.8	61.1	76.8		
74	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.4	7.9	11.0	15.3	21.2	29.9	35.6	47.9	61.9	78.1		
75	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.7	3.7	5.3	7.7	10.8	15.1	21.0	29.4	34.9	47.7	62.6	79.4		
76	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.7	5.2	7.5	10.6	14.8	20.7	29.0	34.4	47.4	63.2	80.5		
77	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5	3.6	5.1	7.4	10.4	14.5	20.4	28.6	33.8	46.7	63.6	81.6		
78	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5	3.5	4.9	7.2	10.2	14.2	20.1	28.2	33.3	45.8	63.6	82.6		
79	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.4	4.8	7.1	10.0	14.0	19.7	27.8	32.9	45.0	63.5	83.6		
80	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.9	9.8	13.7	19.4	27.5	32.4	44.3	62.9	84.3		
81	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.8	9.6	13.4	19.0	27.1	32.0	43.7	62.0	84.7		
82	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.5	6.6	9.4	13.2	18.7	26.7	31.7	43.1	60.7	84.8		
83	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.1	4.4	6.5	9.2	12.9	18.3	26.2	31.2	42.5	59.9	84.5		
84	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.3	9.0	12.7	18.0	25.8	30.7	42.0	59.0	83.8		
85	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.2	6.2	8.8	12.4	17.6	25.3	30.2	41.5	58.1	82.6		
86	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.1	6.1	8.6	12.2	17.3	24.9	29.7	41.0	57.3	80.9		
87	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.8	4.0	6.0	8.4	11.9	17.0	24.4	29.2	40.4	56.6	79.8		
88	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.7	3.8	5.7	8.1	11.4	16.3	23.5	28.1	39.1	55.3	77.6		
89	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.8	5.5	7.9	11.1	16.1	23.1	27.6	38.5	54.6	76.5		
90	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.6	3.7	5.4	7.7	10.9	15.7	22.6	27.1	37.8	53.8	75.6		
91	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.6	3.6	5.3	7.6	10.7	15.4	22.2	26.6	37.1	53.0	74.7		
92	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.6	5.2	7.4	10.5	15.0	21.8	26.1	36.5	52.2	73.9		
93	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.5	3.5	5.1	7.2	10.3	14.7	21.4	25.6	35.8	51.4	73.0		
94	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.4	5.0	7.0	10.1	14.4	21.0	25.2	35.2	50.5	72.0		
95	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.4	4.9	6.9	9.9	14.1	20.5	24.7	34.5	49.6	70.9		
96	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.3	4.8	6.7	9.6	13.9	20.1	24.2	33.9	48.8	69.8		
97	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.3	4.7	6.6	9.4	13.6	19.7	23.7	33.3	47.9	68.7		
98	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.3	4.6	6.5	9.2	13.3	19.3	23.2	32.7	47.0	67.6		
99	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	4.6	6.4	9.0	13.0	18.9	22.7	32.1	46.2	66.5		
100	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	4.6	6.4	9.0	13.0	18.9	22.7	32.1	46.2	66.5		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 13 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.1	1.3	1.5	1.9	2.2	2.7	3.7	5.1
2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	2.0	2.3	2.8	3.8	5.3
3	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.7	2.1	2.3	3.0	3.9	5.4
4	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
5	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.7	2.0	2.4	2.7	3.3	4.3	5.9
6	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.8	2.1	2.5	3.5	4.5	6.0
7	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.6	2.9	3.6	4.7	6.2
8	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.8	6.4
9	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1	2.4	2.9	3.2	3.9	5.0
10	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.6	3.1	3.4	4.1	5.2
11	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1	2.4	2.9	3.2	3.7	4.5	5.6
12	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.6	3.0	3.5	4.3	5.4	7.1
13	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.6	3.0	3.5	4.3	5.4	7.1
14	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.0	2.3	2.7	3.1	3.6	4.7	5.9	7.6
15	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.4	2.8	3.2	3.7	4.1	4.9	6.1
16	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.9	3.4	3.9	4.3	5.1	6.4	8.1
17	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.1	3.5	4.2	4.5	6.6	8.4
18	0.2	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.7
19	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.4	3.8	4.4	5.0	5.9	7.2	9.1	9.4
20	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.4	3.9	4.4	5.1	5.5	6.5	7.9	9.8
21	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.4	1.6	1.8	2.0	2.2	2.5	2.7	3.1	3.6	4.1	4.6	5.4	5.8	6.8	8.2	10.2
22	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.6	2.9	3.3	3.9	4.3	4.9	5.7	6.1	7.1	8.6	10.6
23	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.6	5.2	6.0	6.4	7.5	9.0	11.0
24	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	9.0	11.0
25	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.9	2.2	2.5	2.9	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.8	7.8	9.4	11.5
26	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.7	3.0	3.4	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	12.0
27	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	3.9	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.3	12.5
28	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.9	3.3	3.8	4.2	4.6	5.1	5.7	6.4	7.4	7.9	9.1	10.8	13.0
29	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.1	2.5	3.0	3.5	4.0	4.4	4.9	5.4	6.1	6.8	7.8	8.3	9.5	11.3	13.6
30	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.7	4.2	4.7	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.8	14.2
31	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	4.9	5.2	5.9	6.5	7.2	8.0	9.1	9.7	11.1	13.0
32	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.2	2.7	3.3	4.0	4.6	5.2	5.8	6.4	7.1	7.6	8.5	9.2	10.5	12.4	15.5
33	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.7	3.3	4.1	4.8	5.4	5.9	6.5	7.3	8.0	9.0	10.2	11.6	13.6	16.2
34	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.7	3.4	4.2	5.0	5.7	6.5	7.3	8.0	9.0	10.1	10.8	12.2	14.2	16.9
35	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	2.8	3.5	4.3	5.1	6.0	6.9	7.7	8.5	9.5	10.7	11.4	12.9	14.9	17.7
36	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.4	5.3	6.2	7.2	8.1	9.0	10.0	11.3	12.0	13.5	15.7	18.5
37	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.6	4.5	5.4	6.5	7.6	8.5	9.5	10.6	11.9	12.6	14.2	16.4	19.3
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.6	4.6	5.6	6.7	7.9	9.0	10.0	11.2	12.5	13.3	15.0	17.3	20.2
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.6	5.7	6.9	8.2	9.4	10.6	11.8	13.2	14.0	15.7	18.1	21.2
40	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.7	5.8	7.0	8.5	9.9	11.1	12.4	13.9	14.8	16.6	19.0
41	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.7	5.9	7.2	8.8	10.3	11.7	13.1	14.7	15.6	17.4	20.0
42	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.7	5.9	7.2	8.8	10.3	11.7	13.1	14.7	15.6	17.4	20.0
43	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.1	7.5	9.3	11.1	12.8	14.5	16.3	17.3	19.3	22.4
44	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.8	6.1	7.6	9.5	11.4	13.3	15.2	17.2	18.2	20.3	23.1
45	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.7	6.2	7.7	9.7	11.7	13.8	15.9	18.1	19.2	21.4	24.3	27.9
46	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.7	6.2	7.8	9.9	12.0	14.3	16.7	19.0	20.2	22.5	25.5	29.3
47	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	6.2	7.9	10.1	12.3	14.8	17.4	19.9	21.2	23.7	26.8	30.7
48	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.1	4.4	6.1	8.0	10.2	12.6	15.2	18.0	20.8	22.2	24.9	28.1	32.7
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.0	10.4	12.8	15.6	18.6	21.8	23.3	26.2	29.6	33.7
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	5.8	8.0	10.5	13.0	15.9	19.2	22.7	24.3	27.5	31.1	35.4

T F M P E R A T U R E , D E G R E E S F A H R E S

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 1% PERCENT RELATIVE HUMIDITY

BAND CENTER FREQUENCY, HZ																									
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	2.0	2.3	2.9	3.8	5.3	
2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.7	2.1	2.4	3.0	3.9	
3	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.9	2.3	2.6	3.2	4.1	5.6	
4	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9	
5	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.5	2.8	3.5	4.5	6.1	
6	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.9	2.2	2.7	3.0	3.6	4.7	6.3	
7	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.9	6.5	
8	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	2.1	2.5	3.0	3.4	4.0	4.9	6.5	
9	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.0	2.4	2.9	3.3	4.0	5.1	6.7	
10	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.1	2.5	2.9	3.4	4.1	4.9	6.0	7.6	
11	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.1	2.5	2.9	3.4	4.0	4.7	5.7	7.6	
12	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.1	2.5	2.9	3.4	4.0	4.7	5.7	7.6	
13	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.1	2.5	2.9	3.4	4.0	4.7	5.7	7.6	
14	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.1	2.5	2.9	3.4	4.0	4.7	5.7	7.6	
15	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.0	3.4	4.0	4.4	5.2	6.4	8.2	
16	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.5	
17	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.2	
18	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.2	
19	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.2	
20	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.2	
21	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	
22	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	
23	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	
24	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	
25	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	
26	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	
27	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.9	3.4	3.8	4.3	4.8	5.3	5.9	6.6	7.5	8.1	9.3	11.0	
28	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.0	2.4	2.9	3.4	4.1	4.5	5.1	5.6	6.2	7.0	7.9	8.5	9.7	11.5	
29	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.1	3.7	4.3	4.8	5.4	5.9	6.6	7.4	8.4	9.4	10.2	12.0	14.5	
30	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.6	3.2	3.9	4.5	5.0	5.7	6.3	7.0	7.8	8.8	9.4	10.8	12.6	15.1	
31	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.3	4.0	4.7	5.3	6.0	6.7	7.4	8.2	9.3	10.0	11.3	13.2	15.8	
32	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.3	4.1	4.9	5.6	6.4	7.0	7.8	8.7	9.8	10.5	11.9	13.9	16.5	
33	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.2	5.0	5.8	6.7	7.5	8.3	9.2	10.4	11.1	12.5	14.6	17.3	
34	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.3	5.2	6.1	7.0	7.9	8.7	9.7	11.0	11.7	13.2	15.3	18.0	
35	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.0	2.7	3.5	4.4	5.3	6.3	7.4	8.3	9.2	10.3	11.6	12.3	13.9	16.1	18.9	
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.5	5.4	6.5	7.7	8.7	9.8	10.9	12.2	13.0	14.6	16.8	19.8	
37	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.5	5.6	6.7	7.8	8.9	10.0	11.5	12.9	15.4	17.7	20.7	
38	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.6	5.7	6.9	8.1	9.3	10.6	12.1	13.6	16.2	18.6	21.7	
39	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.5	3.5	4.6	5.8	7.0	8.4	10.0	11.4	12.8	14.3	15.2	17.0	19.5	
40	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.2	8.9	10.4	11.9	13.5	15.1	16.0	17.9	20.5	
41	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.7	5.9	7.3	9.1	10.8	12.5	14.2	16.0	16.9	18.9	21.5	
42	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.7	6.0	7.5	9.3	11.2	13.0	14.9	16.9	17.8	19.9	22.6	26.4	
43	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.7	6.0	7.6	9.5	11.5	13.5	15.6	17.7	18.8	20.9	23.8	27.4	
44	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	6.1	7.7	9.7	11.8	14.0	16.3	18.6	19.8	22.0	25.0	28.7	
45	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.1	4.4	6.0	7.8	9.9	12.1	14.5	17.0	19.5	20.8	23.2	26.3	30.1	
46	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	6.0	7.8	10.0	12.3	14.9	17.7	20.4	21.8	24.5	27.6	31.6	
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.8	7.8	10.2	12.5	15.1	18.3	21.4	22.8	25.8	29.0	33.1	
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	7.8	10.3	12.8	15.6	18.8	22.3	23.9	27.0	30.5	34.8	
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.6	7.7	10.4	13.0	15.9	19.4	23.1	25.0	28.2	32.1	36.5	
50	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.6	10.4	13.1	16.2	19.9	23.5	26.0	29.5	33.8	38.5	

TEMPERATURE, °C

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 15 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																											
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000				
Y	1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.4				
E	2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.6				
M	3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7				
P	4	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9				
E	5	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.8	3.5	4.5	6.1				
R	6	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.7	6.3				
A	7	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5				
V	8	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7				
U	9	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	6.9				
R	10	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.4	7.2					
F	11	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.7	7.4				
E	12	0.2	0.3	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.1	2.4	2.7	3.1	3.7	4.0	4.8	6.0	7.7				
A	13	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.2	5.0	6.2	8.0				
V	14	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.4	5.2	6.5	8.3				
U	15	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.3	4.6	5.5	6.8	8.6				
R	16	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9				
F	17	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.4	9.3				
E	18	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	4.8	5.4	6.2	7.7	9.6				
V	19	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.2	3.6	4.0	4.5	5.0	5.7	6.5	7.0	8.1				
U	20	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.2	4.8	5.3	6.0	6.9	7.4	8.5				
R	21	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.1	5.9	6.3	7.0	8.4	10.4				
F	22	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.4	6.2	6.7	7.3	8.8	10.9				
E	23	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	3.0	3.3	3.6	4.1	4.5	5.0	5.7	6.5	7.0	8.1	9.7	11.8				
S	24	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.8	5.3	6.0	6.9	7.4	8.5	10.1	12.9				
G	25	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.7	4.1	4.6	5.1	5.6	6.4	7.3	7.8	9.0	10.4	12.9				
R	26	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.4	2.9	3.5	3.9	4.4	4.9	5.4	6.0	6.7	7.7	8.2	9.4	11.1	13.4				
E	27	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.6	4.1	4.6	5.2	5.7	6.3	7.1	8.1	8.7	9.9	11.7	14.0				
S	28	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.5	3.1	3.7	4.3	4.9	5.5	6.0	6.7	7.5	8.5	9.1	10.4	12.2	14.7				
F	29	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.2	3.8	4.5	5.1	5.8	6.4	7.1	8.0	9.0	9.6	11.0	12.8	15.3				
A	30	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.3	4.0	4.7	5.4	6.1	6.8	7.5	8.4	9.5	10.1	11.5	13.5	16.0				
M	31	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.3	4.1	4.9	5.7	6.5	7.2	8.0	9.0	10.0	10.7	12.1	14.1	16.8				
H	32	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.2	5.0	5.8	6.8	7.6	8.4	9.4	10.6	11.3	12.8	14.8	17.5				
R	33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.4	4.3	5.2	6.1	7.2	8.0	8.9	9.9	11.2	11.9	13.5	15.6	18.4				
E	34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.5	4.4	5.3	6.3	7.3	8.3	9.3	10.5	11.8	12.6	14.2	16.4	19.2				
M	35	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.4	5.4	6.4	7.4	8.5	9.5	10.5	11.8	13.2	14.9	17.2	20.1				
H	36	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.5	4.5	5.5	6.7	7.6	8.7	9.3	10.5	11.8	13.2	14.0	15.7	18.0				
E	37	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.5	5.6	6.9	8.4	9.8	11.0	12.4	13.9	14.7	16.5	19.0	22.1				
M	38	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.4	4.4	5.7	7.0	8.6	10.2	11.6	13.1	14.7	15.6	17.4	19.9	23.1				
H	39	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.8	2.4	3.4	4.6	5.8	7.2	8.9	10.5	12.2	13.8	15.5	16.4	18.4	20.9	24.3				
E	40	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.6	5.9	7.3	9.1	10.9	12.7	14.5	16.4	17.3	19.3	22.0	25.4				
T	41	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	5.9	7.4	9.3	11.2	13.2	15.2	17.3	18.3	20.4	23.1	26.7				
	42	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.1	4.4	5.9	7.5	9.5	11.5	13.7	15.9	18.1	19.3	21.5	24.3	28.0				
	43	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.9	7.6	9.6	11.8	14.1	16.6	19.0	20.3	22.6	25.6	29.4				
	44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.9	7.7	9.8	12.0	14.5	17.2	19.9	21.2	23.8	26.9	30.8				
	45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.9	12.3	14.9	17.8	20.8	22.2	25.1	28.3	32.3				
	46	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.6	7.7	10.1	12.5	15.3	18.4	21.8	23.3	26.3	29.8	33.9				
	47	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.6	10.2	12.7	15.6	18.9	22.6	24.4	27.6	31.3	35.6				
	48	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.4	10.2	12.9	15.9	19.4	23.4	25.4	28.8	33.0	37.4				
	49	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.3	7.2	10.2	13.0	16.2	19.9	24.1	26.3	30.2	34.6	39.3				
	50	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.2	7.1	10.1	13.2	16.4	20.3	24.8	27.2	31.5	36.2	41.2				

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 15 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.1	6.9	10.0
52	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	5.0	6.8	9.7
53	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	6.7	9.5
54	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.6	9.3
55	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.4	4.7	6.5	9.2
56	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.6	6.4	9.0
57	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.5	6.3	8.9
58	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.1	8.7
59	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.1	4.3	6.0	8.6
60	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.9	8.4
61	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.3
62	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.6	8.1
63	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.9	2.8	3.9	5.5	8.0
64	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.4	7.8
65	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.6
66	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.1	7.5
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	5.0	7.3
68	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	7.1
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.4	4.8	7.0
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.8
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.2	4.6	6.7
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.2	4.5	6.6
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.4	6.4
74	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.5	2.1	3.0	4.3	6.2
75	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.9	4.2	6.1
76	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.8	4.1	6.0
77	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.8	4.0	5.8
78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.0	1.4	1.9	2.7	3.9	5.7
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.3	1.9	2.7	3.8	5.6
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.6	3.7	5.5
81	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.5	3.5	5.2
82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.5	3.4	5.1
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.4	3.4	4.9
84	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.4	3.4	4.9
85	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.4	3.3	4.7
86	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.4	3.3	4.7
87	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2	4.6
88	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.1	4.5
89	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.1	4.5
90	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.0	4.4
91	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.0	4.3
92	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.0	4.2
93	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0	4.2
94	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.2	3.0	4.1
95	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	3.0	4.1
96	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9	4.0
97	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	4.0
98	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	4.0
99	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	4.0
100	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	4.0

T E M P E R A T U R E , ° F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 16 PERCENT RELATIVE HUMIDITY

BAND CENTER FREQUENCY, HZ																									
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.6
2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7	
3	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9	
4	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.9	3.5	4.6	6.1	
5	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.7	6.3	
6	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5	
7	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	
8	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.8	2.0	2.3	2.6	3.1	3.5	4.2	5.3	6.9	
9	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2	
10	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.8	7.4	
11	0.2	0.3	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.1	3.7	4.0	4.8	6.0	7.4	
12	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0	
13	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.3	6.5	8.3	
14	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.2	3.7	4.3	4.7	5.5	6.8	8.6	
15	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	9.0	
16	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3	
17	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.3	6.4	7.8	9.7	
18	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.7	8.1	10.1	
19	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.6	6.1	7.1	8.5	10.5	
20	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	4.1	4.5	5.1	5.9	6.4	7.4	8.9	11.0	
21	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4	
22	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9	
23	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.2	3.5	3.9	4.4	4.8	5.4	6.1	7.0	7.5	8.6	10.2	12.4	
24	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.8	3.3	3.7	4.2	4.6	5.1	5.7	6.6	7.3	7.9	9.1	10.7	13.0	
25	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.9	4.4	4.9	5.5	6.1	7.0	7.6	8.3	9.5	11.2	13.6	
26	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.0	3.6	4.2	4.7	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.8	14.2	
27	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.8	4.4	4.9	5.6	6.1	6.8	7.6	8.7	9.2	10.6	12.4	14.8	
28	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.2	3.9	4.6	5.2	5.9	6.5	7.2	8.1	9.1	9.8	11.1	13.0	15.5	
29	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.2	3.9	4.6	5.2	5.9	6.5	7.2	8.1	9.1	9.8	11.1	13.0	15.5	
30	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	2.0	2.4	3.0	3.6	4.2	4.7	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.8	14.2	
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.3	4.0	4.7	5.3	6.2	6.9	7.6	8.5	9.7	10.3	11.7	13.6	16.2	
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.0	5.9	6.9	7.7	8.6	9.6	10.8	11.5	13.0	15.0	17.8	
33	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.3	5.3	6.4	7.6	8.6	9.6	10.7	12.0	12.8	14.4	16.6	19.5	
34	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.4	4.4	5.4	6.5	7.9	9.0	10.1	11.3	12.7	13.5	15.2	17.4	20.4	
35	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.4	5.5	6.7	8.1	9.3	10.7	12.0	13.4	14.2	16.0	18.3	21.4	
36	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.9	8.4	9.9	11.2	12.7	14.2	15.0	16.8	19.3	22.4	
37	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.5	5.7	7.1	8.9	10.4	12.3	14.0	15.8	16.7	18.7	21.3	24.7	
38	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.5	5.7	7.2	9.1	10.9	12.8	14.7	16.7	17.7	19.7	22.4	25.9	
39	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	5.8	7.2	9.2	11.2	13.3	15.4	17.5	18.6	20.8	23.6	27.1	
40	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.4	5.8	7.3	9.4	11.5	13.7	16.1	18.4	19.6	21.9	24.8	28.5	
41	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.3	5.8	7.4	9.4	11.7	14.2	16.7	19.3	20.6	23.1	26.1	29.9	
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.2	5.8	7.5	9.6	11.7	14.2	16.7	19.3	20.6	23.1	26.1	31.4	
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.1	5.7	7.5	9.7	12.0	14.5	17.4	20.2	21.6	24.3	27.4	34.4	
44	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.0	2.9	4.0	5.5	7.5	9.8	12.2	14.9	17.9	21.1	22.6	25.6	28.9	32.9	
45	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.5	10.0	12.4	15.2	18.5	22.0	23.7	26.8	30.4	34.6	
46	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.9	5.3	7.3	10.0	12.6	15.5	19.0	22.8	24.7	28.0	32.0	36.3	
47	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.8	5.2	7.1	10.0	12.7	15.8	19.4	23.5	25.6	29.3	33.6	38.2	
48	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.1	7.0	10.0	12.9	16.0	19.8	24.2	26.5	30.7	35.2	40.1	
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.8	9.8	13.0	16.3	20.2	24.9	27.3	31.9	36.8	42.1	
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	4.9	6.7	9.6	13.0	16.5	20.6	25.5	28.1	33.1	38.4	44.3	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 17 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ																
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000
1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
8	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
12	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
13	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
16	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
22	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
24	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
25	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
26	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
27	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
28	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
29	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
31	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
32	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
33	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
34	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
35	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
36	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
37	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
38	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
39	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
41	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
42	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
43	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
44	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
45	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
46	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
47	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
48	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
49	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

V E M P F E R A T U P F E . D E C G R E E S F A H N H E I I

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 17 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.6	6.3	8.9	12.4	16.5	21.1	26.5	29.5	35.4	42.2	49.0
52	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.5	6.2	8.7	12.0	16.5	21.3	26.9	30.0	36.4	43.7	51.1
53	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.1	8.6	11.8	16.3	21.5	27.3	30.6	37.3	45.2	53.3
54	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.3	5.9	8.4	11.6	16.1	21.6	27.7	31.1	38.1	46.5	55.5
55	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	5.8	8.3	11.4	15.7	21.6	28.1	31.5	38.8	47.8	57.4
56	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.2	11.2	15.4	21.5	28.4	32.0	39.5	49.0	59.3
57	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	1.9	2.8	4.0	5.6	8.0	11.0	15.1	21.2	28.6	32.4	40.2	50.1	61.1
58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.8	3.9	5.4	7.9	10.8	14.8	20.8	28.7	32.7	40.8	51.0	62.0
59	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.8	5.3	7.7	10.7	14.6	20.3	28.6	32.9	41.3	51.9	64.4
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.5	10.5	14.4	20.0	28.3	32.9	41.8	52.9	65.9
61	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.1	7.4	10.3	14.2	19.6	27.9	32.8	42.3	53.7	67.2
62	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	7.2	10.1	13.9	19.3	27.2	32.5	42.6	54.4	68.4
63	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	7.0	9.9	13.7	19.0	26.7	31.9	42.7	55.2	69.7
64	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.7	6.9	9.6	13.4	18.7	26.3	31.2	42.6	55.8	70.8
65	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.7	9.4	13.2	18.5	25.9	30.7	42.3	56.4	71.9
66	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.2	4.5	6.6	9.2	12.9	18.2	25.5	30.1	41.7	56.7	72.8
67	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.4	6.4	9.0	12.7	17.9	25.1	29.7	40.7	56.7	73.7
68	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.1	3.0	4.3	6.3	8.8	12.4	17.5	24.7	29.2	40.0	56.5	74.5
69	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.1	8.6	12.1	17.2	24.4	28.8	39.4	55.9	75.2
70	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.5	11.9	16.9	24.0	28.4	38.8	55.0	75.5
71	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.9	5.7	8.1	11.4	16.2	23.2	27.6	37.6	53.0	75.1
72	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.6	7.9	11.2	15.9	22.8	27.1	37.2	52.2	74.2
73	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.7	5.5	7.7	10.9	15.5	22.3	26.6	36.7	51.4	72.9
74	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.6	5.4	7.5	10.7	15.2	21.9	26.2	36.2	50.7	71.5
75	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	5.2	7.4	10.5	14.9	21.5	25.7	35.6	50.0	70.4
76	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.3	1.8	2.4	3.4	5.1	7.2	10.2	14.6	21.1	25.2	35.0	49.4	69.4
77	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.6	24.7	34.4	48.8	68.4
78	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.4	3.3	4.8	6.9	9.8	14.1	20.2	24.2	33.8	48.1	67.5
79	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.2	4.7	6.8	9.6	13.7	19.8	23.8	33.2	47.3	66.6
80	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.3	4.6	6.6	9.4	13.4	19.5	23.3	32.5	46.6	65.8
81	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.3	4.5	6.4	9.2	13.1	19.1	22.8	31.9	45.8	65.1
82	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.2	4.4	6.3	9.0	12.8	18.7	22.4	31.3	45.0	64.1
83	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.2	4.3	6.1	8.8	12.6	18.3	22.0	30.7	44.2	63.2
84	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.2	3.0	4.3	6.0	8.6	12.4	17.9	21.6	30.1	43.4	62.2
85	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.2	2.9	4.2	5.9	8.3	12.1	17.5	21.1	29.6	42.6	61.2
86	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.2	2.9	4.1	5.8	8.1	11.8	17.1	20.6	29.0	41.8	60.1
87	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.2	2.9	4.1	5.8	8.0	11.6	16.8	20.2	28.5	41.0	59.1
88	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.2	2.8	4.0	5.7	7.8	11.3	16.5	19.8	27.9	40.3	58.1
89	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.9	5.4	7.7	11.0	16.2	19.4	27.3	39.6	57.0
90	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.9	5.4	7.5	10.8	15.8	19.1	26.7	38.9	56.0
91	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.8	5.3	7.4	10.5	15.5	18.7	26.2	38.2	55.0
92	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.8	5.2	7.2	10.3	15.1	18.3	25.7	37.4	54.0
93	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.6	2.1	2.8	3.8	5.1	7.1	10.1	14.8	17.9	25.2	36.6	53.0
94	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.6	2.1	2.8	3.8	5.1	7.0	9.9	14.4	17.5	24.8	35.8	52.1
95	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.2	2.8	3.8	5.0	6.9	9.7	14.1	17.0	24.3	35.1	51.3
96	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	2.2	2.8	3.8	5.0	6.8	9.6	13.8	16.7	23.8	34.4	50.3
97	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	2.2	2.8	3.7	5.0	6.7	9.4	13.6	16.3	23.2	33.8	49.2
98	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	2.2	2.8	3.7	5.0	6.6	9.3	13.3	16.0	22.7	33.3	48.2
99	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	2.2	2.8	3.7	5.0	6.6	9.2	13.1	15.7	22.2	32.6	47.2
100	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	2.3	2.8	3.7	5.0	6.6	9.2	13.1	15.7	22.2	32.6	47.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 18 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
T	51	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.3	6.0	8.5	11.7	16.1	21.1	26.7	33.8	43.9	51.6		
F	52	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.9	8.4	11.5	15.9	21.2	27.1	30.4	37.1	45.2		
H	53	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.2	11.3	15.6	21.3	27.5	30.8	37.9	46.5		
N	54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.9	5.5	7.9	10.9	14.9	21.0	28.1	31.7	39.2	48.8		
S	55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.4	7.8	10.7	14.7	20.6	28.2	32.0	39.9	49.8		
E	56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.7	3.7	5.3	7.6	10.5	14.4	20.1	28.1	32.3	40.4	50.7		
R	57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.7	5.1	7.4	10.3	14.2	19.7	27.9	32.4	41.0	51.7		
A	58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.6	5.0	7.3	10.1	14.0	19.4	27.5	32.3	41.4	52.5		
U	59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	7.1	9.9	13.8	19.0	26.9	32.0	41.6	53.3		
P	60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.4	3.4	4.8	7.0	9.7	13.5	18.7	26.4	31.5	41.9	54.0		
M	61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.8	9.5	13.3	18.4	25.9	30.8	41.9	54.7		
E	62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.6	6.6	9.3	13.0	18.2	25.5	30.2	41.6	55.2		
R	63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.6	6.5	9.1	12.8	17.9	25.1	29.7	41.1	55.6		
A	64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.5	9.1	12.8	17.6	24.7	29.2	40.2	55.7		
U	65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.2	3.1	4.3	6.4	8.9	12.5	17.6	24.7	29.2	40.2	55.7		
P	66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.2	8.7	12.2	17.3	24.4	28.8	39.5	55.6		
M	67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.1	8.5	12.0	17.0	24.1	28.4	38.8	55.1		
E	68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.9	8.3	11.7	16.6	23.7	28.0	38.2	54.2		
R	69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	3.9	5.8	8.2	11.5	16.3	23.3	27.6	37.6	53.0		
A	70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.9	5.6	8.0	11.2	16.0	22.8	27.2	37.0	52.7		
U	71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.8	5.5	7.8	11.0	15.6	22.4	26.7	36.5	51.4		
P	72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.8	15.3	22.0	26.2	36.1	50.6		
M	73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.6	5.3	7.4	10.6	15.0	21.6	25.8	35.6	49.8		
E	74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.5	3.5	5.1	7.3	10.3	14.7	21.1	25.3	35.0	49.2		
R	75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.1	14.4	20.7	24.8	34.4	48.5		
A	76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.3	4.9	7.0	9.8	14.1	20.3	24.3	33.8	48.0		
U	77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.2	4.8	6.8	9.6	13.8	19.9	23.8	33.2	47.3		
P	78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.2	4.6	6.7	9.4	13.5	19.5	23.4	32.6	46.5		
M	79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.5	6.5	9.2	13.2	19.1	22.9	32.0	45.8		
E	80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.0	4.4	6.3	9.0	12.9	18.8	22.5	31.4		
R	81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.0	4.4	6.2	8.8	12.6	18.4	22.0	30.8		
A	82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.3	6.0	8.6	12.4	18.0	21.6	30.2		
U	83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.2	5.9	8.4	12.1	17.6	21.2	29.6		
P	84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.1	2.9	4.1	5.8	8.2	11.9	17.2	20.7	29.1	41.9		
M	85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	4.0	5.7	8.0	11.6	16.8	20.2	28.5	41.1		
E	86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	4.0	5.5	7.8	11.4	16.5	19.8	28.0	40.3		
R	87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.9	5.4	7.7	11.1	16.2	19.4	27.4	39.6		
A	88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.9	5.3	7.4	10.6	15.9	19.0	26.8	38.8		
U	89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.8	5.3	7.4	10.6	15.5	18.7	26.2	38.1		
P	90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.8	3.8	5.2	7.1	10.3	15.2	18.3	25.7	37.5		
M	91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.7	3.7	5.1	7.1	10.1	14.8	17.9	25.2	36.7		
E	92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.7	2.1	2.7	3.7	5.1	7.0	9.9	14.5	17.5	24.7	36.0		
R	93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.7	2.1	2.7	3.7	5.0	6.9	9.7	14.1	17.1	24.3	35.2		
A	94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.7	2.1	2.7	3.7	4.9	6.8	9.6	13.8	16.7	23.8	34.5		
U	95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.7	2.2	2.7	3.7	4.9	6.7	9.4	13.6	16.3	23.3	33.8		
P	96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	3.7	4.9	6.6	9.2	13.3	16.0	22.8	33.2		
M	97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.7	4.9	6.5	9.1	13.1	15.7	22.3	32.7		
E	98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.7	4.9	6.5	9.0	12.8	15.4	21.8	32.0		
R	99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.7	4.8	6.4	8.9	12.6	15.1	21.3	31.3		
A	100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.8	6.4	8.8	12.4	14.8	20.9		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 19 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.4
2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4
3	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5
4	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6
5	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7
6	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.9
7	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0
8	0.2	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1
9	0.2	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
10	0.2	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
11	0.2	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
12	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
13	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
14	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
15	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
16	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
17	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
18	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
19	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
20	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
21	0.1	0.2	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2
22	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
23	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
24	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
25	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
26	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
27	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
28	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
29	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
30	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
31	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
32	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
33	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
34	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
35	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
36	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
37	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
38	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
39	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
40	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
41	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
42	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
43	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
44	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
45	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
46	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
47	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
48	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
49	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1
50	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 19 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																									
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
51	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.1	11.2	15.5	20.9	26.9	30.1	36.9	45.2	54.0	
52	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.6	8.0	11.0	15.1	20.9	27.2	30.6	37.6	46.4	55.9	
53	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.9	5.5	7.9	10.8	14.8	20.7	27.5	31.0	38.3	47.6	57.7	
54	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.8	5.3	7.7	10.6	14.5	20.4	27.7	31.4	39.0	48.6	59.5	
55	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.5	10.4	14.3	19.9	27.7	31.7	39.5	49.5	61.1	
56	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.1	7.4	10.3	14.0	19.5	27.6	31.8	40.1	50.5	62.7	
57	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	5.0	7.2	10.1	13.8	19.2	27.3	31.8	40.6	51.3	64.1	
58	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.9	7.1	9.9	13.6	18.8	26.7	31.6	41.0	52.1	65.3	
59	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.4	4.7	6.9	9.6	13.4	18.5	26.1	31.2	41.2	52.8	66.5	
60	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.7	9.4	13.1	18.2	25.7	30.5	41.2	53.5	67.7	
61	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.8	1.1	1.5	2.3	3.2	4.5	6.6	9.2	12.9	18.0	25.2	29.9	41.1	54.1	68.8	
62	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.4	9.0	12.6	17.7	24.8	29.4	40.6	54.6	69.7	
63	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.3	8.8	12.4	17.4	24.4	28.9	39.9	54.7	70.7	
64	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.2	8.6	12.1	17.1	24.1	28.4	39.0	54.7	71.5	
65	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.4	11.9	16.8	23.7	28.0	38.4	54.3	72.3	
66	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.9	8.3	11.6	16.4	23.4	27.6	37.7	53.6	72.7	
67	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.9	5.7	8.1	11.3	16.1	23.0	27.3	37.1	52.5	72.8	
68	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.9	11.1	15.8	22.6	26.8	36.6	51.6	72.7	
69	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.7	10.9	15.5	22.2	26.4	36.1	50.7	72.1	
70	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.6	5.3	7.5	10.6	15.1	21.7	25.9	35.6	49.9	71.0	
71	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.3	1.8	2.5	3.5	5.2	7.3	10.4	14.8	21.3	25.4	35.1	49.2	69.5	
72	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	5.1	7.2	10.2	14.5	20.9	25.0	34.6	48.5	68.4	
73	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.3	5.0	7.0	10.0	14.2	20.5	24.5	34.0	47.8	67.3	
74	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.2	4.8	6.9	9.7	13.9	20.1	24.0	33.4	47.3	66.3	
75	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.2	4.7	6.7	9.5	13.3	19.6	23.5	32.8	46.6	65.4	
76	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.1	4.6	6.6	9.3	13.3	19.3	23.1	32.2	45.9	64.5	
77	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.5	6.4	9.1	13.0	18.9	22.6	31.6	45.1	63.7	
78	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.0	4.4	6.2	8.9	12.7	18.5	22.1	31.0	44.4	63.0	
79	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.3	6.1	8.7	12.4	18.2	21.7	30.4	43.6	62.1	
80	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.2	5.9	8.5	12.2	17.7	21.3	29.8	42.8	61.2
81	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.1	5.8	8.3	12.0	17.3	20.9	29.2	42.0	60.2
82	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	4.0	5.7	8.1	11.7	16.9	20.4	28.6	41.3	59.2	
83	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	4.0	5.6	7.9	11.5	16.6	20.0	28.1	40.5	58.2	
84	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.6	2.1	3.9	5.5	7.7	11.2	16.3	19.5	27.6	39.7	57.2	
85	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.7	2.1	3.9	5.4	7.6	10.9	16.0	19.1	27.1	39.0	56.2	
86	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	3.8	5.3	7.4	10.7	15.6	18.7	26.5	38.3	55.2	
87	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	3.8	5.2	7.3	10.4	15.3	18.4	25.9	37.6	54.2	
88	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	3.7	5.1	7.1	10.2	15.0	18.1	25.3	36.9	53.2	
89	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	3.7	5.0	7.0	10.0	14.6	17.7	24.8	36.2	52.2	
90	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	3.7	5.0	6.9	9.8	14.3	17.3	24.4	35.4	51.3	
91	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	3.7	4.9	6.8	9.6	13.9	16.9	24.0	34.6	50.4	
92	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	3.7	4.8	6.7	9.4	13.6	16.5	23.5	33.9	49.5	
93	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	3.6	4.8	6.6	9.2	13.4	16.1	23.0	33.3	48.6	
94	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	3.6	4.8	6.5	9.1	13.1	15.8	22.5	32.7	47.6	
95	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	3.6	4.8	6.4	9.0	12.9	15.4	22.0	32.2	46.6	
96	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	3.6	4.8	6.3	8.8	12.6	15.2	21.4	31.5	45.6	
97	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.6	4.7	6.3	8.7	12.4	14.9	21.0	30.9	44.8	
98	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.6	4.7	6.3	8.6	12.2	14.6	20.5	30.2	44.0	
99	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.6	4.7	6.							

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 20 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
TEMPERATURE	°C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 20 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ														10000									
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000		1250	1600	2000	2500	3150	4000	5000	6300	8000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.8	3.9	5.5	7.8	10.7	14.7	20.5	26.9	30.3	37.4	46.3	55.9
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.8	5.3	7.7	10.5	14.5	20.3	27.2	30.7	38.0	47.4	57.7
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.5	10.4	14.2	19.9	27.3	31.0	38.6	48.3	59.4
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.1	7.4	10.2	13.9	19.4	27.2	31.3	39.2	49.2	60.9
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	5.0	7.2	10.0	13.7	19.1	27.0	31.3	39.7	50.1	62.4
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.8	7.0	9.8	13.5	18.7	26.6	31.2	40.1	50.9	63.7
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.4	4.7	6.9	9.6	13.3	18.4	26.0	30.9	40.5	51.7	64.9
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.7	9.4	13.0	18.1	25.5	30.4	40.6	52.4	66.1
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.3	3.2	4.5	6.6	9.2	12.8	17.8	25.0	29.7	40.5	53.0	67.2
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.2	3.1	4.4	6.4	9.0	12.5	17.6	24.6	29.2	40.2	53.5	68.2
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.3	8.8	12.3	17.3	24.2	28.7	39.6	53.8	69.1
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.1	8.6	12.0	17.0	23.8	28.2	38.7	53.9	70.0
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.4	11.8	16.6	23.5	27.7	38.0	53.7	70.8
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.2	11.5	16.3	23.2	27.3	37.4	53.1	71.4
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.7	8.0	11.3	16.0	22.8	27.0	36.8	52.2	71.7
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.9	11.0	15.7	22.4	26.6	36.2	51.1	71.6
67	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.7	10.8	15.3	22.0	26.1	35.7	50.2	71.2
68	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.6	5.3	7.5	10.6	15.0	21.5	25.7	35.2	49.4	70.3
69	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.5	5.2	7.3	10.3	14.7	21.1	25.2	34.8	48.7	69.0
70	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	5.1	7.1	10.1	14.4	20.7	24.7	34.2	47.9	67.7
71	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.2	4.8	6.8	9.6	13.8	19.9	23.8	33.0	46.7	65.6
72	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.2	4.7	6.7	9.4	13.5	19.5	23.3	32.4	46.1	64.6
73	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.1	4.6	6.5	9.2	13.2	19.1	22.8	31.8	45.4	63.7
74	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.0	4.4	6.4	9.0	12.9	18.7	22.4	31.2	44.6	62.9
75	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.0	4.3	6.2	8.8	12.6	18.3	21.9	30.6	43.9	62.2
76	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.0	4.3	6.0	8.6	12.3	18.0	21.5	30.1	43.1	61.4
77	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.2	5.9	8.4	12.1	17.6	21.1	29.5	42.4	60.4
78	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	2.8	4.1	5.7	8.2	11.8	17.2	20.7	28.9	41.6	59.5
79	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	2.8	4.0	5.6	8.0	11.6	16.8	20.2	28.3	40.8	58.5
80	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.5	2.0	2.8	3.9	5.5	7.8	11.3	16.4	19.8	27.8	40.0	57.5
81	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.5	2.0	2.8	3.9	5.4	7.6	11.1	16.1	19.3	27.3	39.3	56.5
82	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.5	2.0	2.7	3.9	5.4	7.6	11.1	16.1	19.3	27.3	39.3	56.5
83	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.5	2.0	2.7	3.8	5.3	7.5	10.8	15.8	18.9	26.8	38.5	55.5
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	2.0	2.7	3.8	5.2	7.3	10.6	15.5	18.5	26.2	37.8	54.5
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.7	5.1	7.2	10.3	15.1	18.2	25.6	37.1	53.5
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.7	3.7	5.0	7.0	10.1	14.8	17.8	25.0	36.5	52.6
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.6	5.0	6.9	9.8	14.5	17.5	24.5	35.8	51.6
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.6	4.9	6.8	9.7	14.1	17.1	24.1	35.0	50.7
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.6	4.8	6.7	9.5	13.8	16.7	23.6	34.3	49.8
90	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.6	4.8	6.6	9.3	13.5	16.3	23.2	33.5	48.9
91	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.6	4.7	6.5	9.1	13.2	15.9	22.7	32.9	48.0
92	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.5	4.7	6.4	9.0	12.9	15.6	22.2	32.3	47.0
93	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.5	4.7	6.3	8.8	12.7	15.3	21.7	31.7	46.0
94	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.7	6.2	8.7	12.5	15.0	21.2	31.1	45.1
95	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.7	6.2	8.6	12.2	14.7	20.7	30.5	44.2
96	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.6	6.2	8.5	12.0	14.4	20.3	29.8	43.4
97	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.5	4.6	6.2	8.4	11.9	14.2	19.9	29.2	42.7
98	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	6.1	8.3	11.7	13.9	19.5	28.5	41.9
99	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	6.1	8.2	11.5	13.7	19.2	27.9	41.1
100	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	6.1	8.2	11.4	13.5	18.8	27.3	40.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 21 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.0	3.7	4.8	6.4
2	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.9	3.2	3.9	5.0	6.6
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.3	5.4
4	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.7	4.5	5.6	7.3
5	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.1	2.3	2.6	3.0	3.4	4.1	5.1	6.7
6	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.8	3.2	3.6	4.1	4.9	6.1	7.9
7	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.4	4.0	4.4	5.2	6.4	8.2
8	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.2	4.6	5.4	6.7	8.5
9	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.4	2.6	3.0	3.3	3.8	4.5	4.8	5.7	7.0	8.8
10	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.3	9.2
11	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.5	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6
12	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.6	8.0	10.0
13	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.6	8.0	10.0
14	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3.0	3.4	3.8	4.3	4.8	5.6	6.0	7.0	8.4	10.4
15	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.1	5.9	6.3	7.4	8.8	10.9
16	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.1	2.5	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4
17	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.6	3.0	3.3	3.7	4.1	4.6	5.1	5.7	6.6	7.1	8.2	9.7	11.9
18	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.8	2.2	2.7	3.1	3.5	3.9	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.2	12.4
19	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.8	3.3	3.7	4.2	4.7	5.2	5.7	6.5	7.4	7.9	9.1	10.7	13.0
20	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.8	3.4	3.9	4.4	5.0	5.5	6.1	6.9	7.8	8.3	9.6	11.3	13.6
21	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.5	1.9	2.4	2.9	3.5	4.1	4.7	5.3	5.8	6.5	7.3	8.2	8.8	10.1	11.8	14.2
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.7	4.3	4.9	5.6	6.2	6.9	7.7	8.7	9.3	10.6	12.4	15.4
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.8	4.5	5.2	5.9	6.6	7.3	8.2	9.2	9.9	11.2	13.1	15.9
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.5	3.1	3.8	4.6	5.4	6.3	7.0	7.8	8.7	9.8	10.4	11.8	13.8	16.3
25	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.1	3.8	4.6	5.4	6.2	7.1	7.8	8.8	9.7	10.4	11.0	12.5	14.5	17.1
26	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.2	4.0	4.9	5.8	6.9	7.8	8.8	9.7	11.0	11.7	13.2	15.2	18.0
27	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.4	3.2	4.1	5.1	6.2	7.5	8.7	9.8	10.9	12.3	13.9	16.0	18.0	20.8
28	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.2	5.2	6.3	7.8	9.1	10.3	11.6	13.0	14.6	16.3	17.8	20.8
29	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.2	5.2	6.3	7.8	9.1	10.3	11.6	13.0	14.6	16.3	17.8	20.8
30	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.0	5.0	6.0	7.2	8.2	9.3	10.3	11.6	12.3	13.9	15.3	16.9	19.6
31	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.3	6.4	8.2	9.6	11.4	12.9	14.6	15.4	17.3	19.7	22.9	26.6
32	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.9	4.2	5.4	6.7	8.4	10.4	12.3	13.6	15.2	16.3	18.2	20.8	24.1	27.9
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.2	6.3	7.0	8.9	10.9	13.1	15.6	17.9	19.2	21.5	24.3	27.9
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9	34.5

T E M P E R A T U R E , ° F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 21 PERCENT RELATIVE HUMIDITY

	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
T	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
F	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
M	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
P	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
E	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
F	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
U	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

	BAND CENTER FREQUENCY, MZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.9	3.2	3.9	4.9	6.3
2	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.2	2.5	3.0	3.3	4.0	5.1	6.7
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.2	5.3	7.0
4	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1	2.4	2.8	3.4	3.7	4.4	5.6	7.2
5	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.5	3.9	4.6	5.8	7.5
6	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.4	1.5	1.6	1.7	1.9	2.2	2.4	2.8	3.2	3.7	4.1	4.9	6.1	7.8
7	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.6	2.9	3.4	4.0	4.3	5.1	6.3	8.1
8	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.5	5.4	6.6	8.4
9	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.8	4.4	4.8	5.7	6.9	8.8
10	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.5	5.1	5.9	7.3	9.1
11	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.5	1.7	2.0	2.2	2.4	2.6	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	9.4
12	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.1	2.3	2.6	2.8	3.2	3.5	4.0	4.5	5.2	5.6	6.6	8.0	9.9
13	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.2	2.5	2.7	3.0	3.4	3.8	4.2	4.8	5.5	5.9	6.9	8.4	10.3
14	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.6	4.0	4.5	5.1	5.8	6.3	7.3	8.8	10.8
15	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.8	4.3	4.7	5.4	6.2	6.6	7.7	9.2	11.3
16	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.7	4.1	4.5	5.0	5.7	6.5	7.0	8.1	9.6	11.8
17	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.2	2.6	3.1	3.5	3.9	4.3	4.8	5.4	6.0	6.9	7.4	8.5	10.1	12.3
18	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.2	2.6	3.1	3.5	3.9	4.3	4.8	5.4	6.0	6.9	7.4	8.5	10.1	12.3
19	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.2	2.6	3.1	3.5	3.9	4.3	4.8	5.4	6.0	6.9</				

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE
BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 22 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	5.0	7.2	10.0	13.6	19.0	26.5	30.4	37.9	47.6	58.8
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.8	7.0	9.8	13.4	18.6	26.3	30.4	38.4	48.5	60.3
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.4	3.4	4.7	6.9	9.6	13.2	18.3	26.0	30.4	38.9	49.3	61.6
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.7	9.4	13.0	17.9	25.4	30.1	39.3	50.0	62.8
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	9.2	12.7	17.6	24.9	29.7	39.4	50.7	64.0
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.4	9.0	12.5	17.3	24.4	29.0	39.4	51.3	65.1
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.8	12.2	17.1	24.0	28.4	39.1	51.9	66.1
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.2	6.1	8.6	12.0	16.8	23.7	29.3	38.6	52.2	67.0
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.4	11.7	16.5	23.2	27.4	37.7	52.3	67.9
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.2	11.5	16.2	22.8	27.0	37.0	52.1	68.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.7	8.0	11.2	15.9	22.5	26.6	36.4	51.6	69.3
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.8	11.0	15.5	22.1	26.2	35.7	50.8	69.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.7	15.2	21.7	25.8	35.2	49.6	69.5
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.5	3.6	5.2	7.5	10.5	14.9	21.3	25.4	34.6	48.8	69.1
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.1	7.3	10.2	14.6	20.9	24.9	34.2	48.0	68.3
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.5	24.5	33.7	47.2	67.0
67	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.3	4.8	6.7	9.6	13.9	20.1	24.0	33.2	46.5	65.7
68	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.2	4.8	6.7	9.6	13.7	19.7	23.0	32.6	45.9	64.6
69	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.1	4.7	6.6	9.3	13.4	19.3	23.0	32.0	45.3	63.6
70	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.2	3.1	4.5	6.5	9.1	13.1	18.9	22.6	31.4	44.7	62.7
71	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.1	3.0	4.4	6.3	8.9	12.8	18.5	22.1	30.9	44.0	61.8
72	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.9	4.3	6.2	8.7	12.5	18.1	21.7	30.3	43.2	61.0
73	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.9	4.2	6.0	8.5	12.2	17.7	21.2	29.7	42.5	60.2
74	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8	4.1	5.8	8.3	11.9	17.4	20.8	29.1	41.7	59.4
75	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8	4.0	5.7	8.1	11.7	17.0	20.4	28.5	41.0	58.5
76	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.7	3.9	5.6	7.9	11.4	16.6	20.0	27.9	40.2	57.6
77	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.7	3.9	5.4	7.7	11.2	16.2	19.6	27.4	39.5	56.6
78	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.7	3.8	5.3	7.5	11.0	15.8	19.1	26.9	38.7	55.6
79	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.6	3.7	5.2	7.4	10.7	15.5	18.6	26.4	38.0	54.7
80	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.6	3.7	5.1	7.2	10.4	15.2	18.2	25.8	37.2	53.7
81	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.6	3.6	5.0	7.1	10.2	14.9	17.9	25.3	36.5	52.7
82	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.9	2.6	3.6	4.9	6.9	9.9	14.6	17.6	24.7	35.8	51.7
83	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.9	2.6	3.5	4.9	6.8	9.7	14.3	17.2	24.1	35.2	50.7
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.5	4.8	6.6	9.5	13.9	16.8	23.7	34.5	49.8
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.5	4.7	6.5	9.3	13.6	16.5	23.2	33.8	48.9
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.5	4.7	6.4	9.1	13.3	16.1	22.8	33.0	48.0
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.5	4.6	6.3	8.9	13.0	15.7	22.3	32.3	47.2
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.4	4.6	6.3	8.6	12.5	15.3	21.9	31.7	46.3
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.4	4.6	6.2	8.8	12.5	15.0	21.4	31.1	45.3
90	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.6	6.1	8.5	12.2	14.7	20.9	30.6	44.3
91	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.5	6.0	8.4	12.0	14.4	20.4	30.0	43.4
92	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.5	6.0	8.3	11.8	14.1	19.9	29.4	42.6
93	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.5	6.0	8.2	11.6	13.9	19.5	28.7	41.9
94	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.2	2.7	3.5	4.5	6.0	8.1	11.4	13.6	19.2	28.1	41.2
95	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.5	5.9	8.0	11.3	13.4	18.8	27.5	40.4
96	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.5	5.9	7.9	11.1	13.2	18.5	26.9	39.6
97	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.9	7.9	11.0	13.0	18.1	26.3	38.8
98	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.9	7.9	10.9	12.9	17.8	25.8	37.9
99	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.9	7.9	10.7	12.7	17.6	25.4	37.1
100	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.9	7.8	10.7	12.6	17.3	24.9	36.3

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 23 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	TEMP	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.0	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7
2	PER	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.8	2.0	2.3	2.6	3.1	3.4	4.2	5.3	6.9
3	A	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.6	3.0	3.3	3.6	4.4	5.5	7.2
4	U	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.1	3.7	4.0	4.8	6.0	7.7	
5	R	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.5	2.9	3.3	3.9	4.2	5.1	6.3	8.0
6	E	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.1	3.5	4.1	4.5	5.3	6.6	8.3
7	F	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.7	10.7
8	S	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.7	10.7
9	E	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.7	10.7
10	T	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
11	U	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
12	R	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
13	E	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
14	F	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
15	S	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
16	E	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.4	4.9	5.3	6.2	7.5	9.4
17	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
18	U	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
19	R	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
20	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
21	F	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
22	S	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
23	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
24	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
25	U	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
26	R	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
27	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
28	F	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
29	S	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
30	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
31	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
32	U	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
33	R	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
34	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
35	F	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
36	S	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
37	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
38	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
39	U	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
40	R	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
41	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
42	F	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
43	S	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
44	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
45	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
46	U	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
47	R	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
48	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
49	F	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.1	6.9	7.3	8.4	10.0	12.2
50	S	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.1	1.4	1.8	2.2	2.7	3.2	3.7										

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 24 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	
1	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.7	2.0	2.3
4	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.1	2.5
5	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.4	2.7
8	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0
9	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2
10	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.7	3.1	3.4
11	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.3	3.6
12	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.7	2.0	2.3	2.6	2.8	3.1	3.5	3.9
13	0.1	0.2	0.3	0.4	0.4	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.1
14	0.1	0.2	0.3	0.4	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.2	3.6	4.0	4.4
15	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.7
16	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.6	4.0	4.5	5.0
17	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.4	1.8	2.3	2.8	3.3	3.8	4.3	4.8	5.3
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.3	2.8	3.4	4.0	4.5	5.1	5.7
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.3	2.8	3.4	4.0	4.5	5.1	5.7
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 24 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.6	6.6	9.2	12.7	17.6	25.1	29.5	38.1	48.4	60.7	
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.2	4.4	6.5	9.0	12.5	17.3	24.4	29.2	38.4	49.1	61.8	
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.3	8.8	12.3	17.0	24.0	28.6	38.4	49.7	62.9	
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.1	8.6	12.0	16.8	23.5	27.9	38.3	50.3	63.9	
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1	6.0	8.4	11.8	16.5	23.1	27.4	37.9	50.8	64.9	
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.9	8.2	11.5	16.2	22.7	26.9	37.2	50.9	65.7	
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.8	3.9	5.7	8.0	11.3	15.9	22.4	26.4	36.3	50.9	66.5	
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	11.0	15.6	22.1	26.0	35.6	50.5	67.2	
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.7	10.8	15.3	21.7	25.6	35.0	49.8	67.6	
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.5	3.6	5.3	7.5	10.5	14.9	21.3	25.3	34.4	48.7	67.7	
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.5	24.4	33.4	47.0	66.8	
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.5	24.4	33.4	47.0	66.8	
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	3.3	4.9	6.9	9.8	14.0	20.1	23.9	32.9	46.2	65.7	
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.2	4.7	6.8	9.6	13.7	19.7	23.5	32.5	45.5	64.3	
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.8	9.6	13.4	19.3	23.0	31.9	44.8	63.2	
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.1	13.1	18.8	22.6	31.3	44.2	62.7	
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.4	6.3	8.9	12.8	18.4	22.1	30.7	43.7	61.2	
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.3	6.2	8.7	12.5	18.1	21.6	30.2	43.0	60.3	
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.2	6.0	8.5	12.2	17.7	21.2	29.6	42.2	59.5	
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	4.1	5.9	8.3	11.9	17.3	20.7	29.0	41.5	58.7	
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	4.0	5.7	8.2	11.6	17.0	20.3	28.4	40.8	58.0	
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.7	3.9	5.6	8.0	11.4	16.6	19.9	27.8	40.0	57.1	
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	1.9	2.7	3.8	5.4	7.8	11.2	16.2	19.5	27.3	39.3	56.2	
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.6	3.8	5.3	7.6	10.9	15.8	19.1	26.7	38.5	55.2	
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6	3.7	5.2	7.4	10.7	15.5	18.6	26.2	37.7	54.3	
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.6	5.1	7.2	10.4	15.1	18.2	25.7	37.0	53.3	
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.6	5.0	7.0	10.2	14.8	17.8	25.2	36.3	52.3	
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.5	4.9	6.9	9.9	14.6	17.4	24.6	35.6	51.4	
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.5	4.8	6.7	9.7	14.2	17.1	24.1	34.9	50.4	
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.5	3.4	4.7	6.6	9.4	13.9	16.8	23.5	34.3	49.4
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.7	6.5	9.2	13.6	16.4	23.0	33.6	48.5
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.6	6.4	9.1	13.2	16.0	22.6	32.9	47.6
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.5	6.3	8.9	12.9	15.7	22.2	32.7	46.7
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.4	4.5	6.2	8.7	12.6	15.3	21.7	31.5	45.9	
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	6.1	8.5	12.4	14.9	21.3	30.8	45.1	
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	6.0	8.4	12.1	14.6	20.8	30.3	44.1	
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	5.9	8.3	11.9	14.3	20.3	29.8	43.2	
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	5.8	8.2	11.7	14.0	19.8	29.2	42.3	
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	5.7	8.0	11.5	13.7	19.4	28.6	41.5	
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.3	5.6	7.9	11.1	13.5	19.0	27.9	40.7	
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	5.5	7.8	11.1	13.2	18.6	27.3	40.1	
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.5	3.3	4.4	5.4	7.7	10.9	13.0	18.3	26.7	39.3	
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.5	1.9	2.5	3.4	4.3	5.7	7.7	10.6	12.8	17.9	26.1	38.5	
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	1.9	2.5	3.4	4.3	5.7	7.7	10.7	12.7	17.6	25.6	37.7	
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.5	3.5	4.4	5.7	7.6	10.5	12.5	17.3	25.1	36.9	
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5	3.6	4.5	5.7	7.6	10.4	12.4	17.1	24.6	36.1	
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5	3.6	4.5	5.7	7.6	10.4	12.2	16.8	24.2	35.3	
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5	3.6	4.5	5.7	7.6	10.3	12.1	16.6	23.8	34.6	
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.6	4.6	5.8	7.6	10.3	12.0	16.4	23.4	33.9	
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.7	4.6	5.8	7.6	10.3	12.0	16.2	23.0	33.4	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 25 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.2	5.4	7.0	
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.4	3.7	4.4	5.6	7.2	
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.6	3.9	4.7	5.8	7.5	
4	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.4	4.0	4.3	5.2	6.4	8.1	
5	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.4	4.0	4.3	5.2	6.4	8.1	
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.5	
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.5	4.1	4.7	5.1	6.0	7.3	9.2	
8	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.5	4.1	4.7	5.1	6.0	7.3	9.2	
9	0.1	0.2	0.3	0.3	0.5	0.7	0.8	1.0	1.3	1.5	1.8	2.0	2.2	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	6.3	7.7	9.6	
10	0.1	0.2	0.3	0.3	0.5	0.7	0.8	1.1	1.3	1.5	1.8	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.6	8.0	10.0	
11	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.6	6.0	7.0	8.4	10.4	
12	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.5	5.1	5.9	6.4	7.4	8.9	10.9	
13	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.4	2.8	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.7	7.8	9.3	11.4	
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	3.0	3.4	3.7	4.2	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9	
15	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.4	4.9	5.5	6.1	7.0	7.5	8.7	10.3	12.5	
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE
BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 25 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.4	6.4
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.2
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.2	6.0
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.9
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	2.0	2.8	3.9	5.8
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.5
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.3
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.5	3.6	5.2
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4	3.5	5.1
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.4	4.9
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.3	4.8
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.1	4.6
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.5
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.3
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.2
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.1
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.0
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.7	3.9
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.8
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.7
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.5	3.6
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.6
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.6
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.5
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.5
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.4
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.4
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.4	3.3
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.4	3.3
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.3
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.3
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.3
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.3
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.4	3.3
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3
92	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4
93	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4
94	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4
95	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5
96	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5
97	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6
98	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6
99	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6
100	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 26 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.9
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.4	1.5	1.8	2.0	2.1
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.9	2.1	2.3
5	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.4
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.6
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6
8	0.1	0.2	0.3	0.3	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.6	2.9
9	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.3	1.6	1.8	2.1	2.3	2.5	2.8	3.1
10	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.7	3.0	3.4
11	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.0	2.3	2.6	2.9	3.2	3.6
12	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.0	2.4	2.8	3.1	3.4	3.8
13	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.3	3.7	4.1
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.1	3.5	3.9	4.3
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.8	3.3	3.9	4.4	5.0
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.1	4.6	5.3
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.9	3.6	4.2	4.9	5.6
19	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.6	4.4	5.1	5.9
20	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.8	2.3	3.0	3.7	4.5	5.3	6.2
21	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.8	4.6	5.5	6.5
22	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.0	3.8	4.7	5.7	7.0
23	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.0	3.9	4.8	5.9	7.4
24	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.0	4.9	6.0	7.8
25	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.0	5.0	6.1	8.0
26	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.9	4.0	5.1	6.3	8.0
27	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.9	5.1	6.4	8.1
28	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.1	6.5	8.3
29	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.0	6.5	8.3
30	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	6.6	8.4
31	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.4
32	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.4
33	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.7	6.5	8.7
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.7	6.5	8.7
35	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3	4.5	6.3	8.7
36	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2	4.4	6.0	8.4
37	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.2	3.1	4.3	5.8	8.1
38	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	3.0	4.2	5.6	8.1
39	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.0	2.9	4.1	5.5	7.8
40	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.0	2.9	4.0	5.5	7.8
41	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	1.9	2.8	3.9	5.4	7.6
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.3	7.0	9.5
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.0	6.7	9.4
44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.6	3.6	5.0	6.7	9.4
45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.5	4.9	6.6	9.1
46	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.8	6.5	9.0
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.4	3.3	4.7	6.4	8.9
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.3	3.2	4.6	6.3	8.8
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.2	3.1	4.4	6.1	8.6
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.5	2.2	3.1	4.3	6.0	8.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 26 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.1	8.6	11.9	16.6	23.3	27.7	37.5	48.7	61.7
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1	6.0	8.4	11.7	16.3	22.9	27.1	37.3	49.3	62.7
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.2	11.4	16.0	22.5	26.6	36.8	49.6	63.6
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.7	8.0	11.2	15.7	22.1	26.1	36.0	49.7	64.4
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.8	10.9	15.4	21.7	25.7	35.2	49.6	65.2
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.7	15.1	21.4	25.3	34.6	49.1	65.0
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.5	3.6	5.2	7.4	10.4	14.8	21.0	24.9	34.0	48.3	66.1
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4	3.5	5.1	7.2	10.2	14.4	20.6	24.5	33.4	47.1	66.0
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.1	9.9	14.1	20.2	24.1	32.9	46.3	65.7
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.3	4.9	6.9	9.7	13.8	19.8	23.6	32.4	45.5	64.8
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.2	4.8	6.7	9.5	13.5	19.4	23.2	32.0	44.8	63.5
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.3	13.2	19.0	22.7	31.4	44.1	62.2
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.0	4.5	6.4	9.0	12.9	18.6	22.2	30.9	43.4	61.2
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.4	6.2	8.8	12.6	18.2	21.8	30.3	42.9	60.2
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.3	6.1	8.6	12.4	17.8	21.3	29.7	42.2	59.3
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.2	5.9	8.4	12.1	17.4	20.9	29.1	41.5	58.4
67	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.0	5.6	8.0	11.5	16.7	20.4	28.5	40.8	57.6
68	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.7	4.0	5.6	8.0	11.5	16.7	20.4	28.5	40.8	57.6
69	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.9	5.5	7.8	11.2	16.4	19.6	27.4	39.3	56.1
70	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.8	5.3	7.7	11.0	16.0	19.2	26.8	38.6	55.2
71	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.7	5.2	7.5	10.8	15.6	18.8	26.3	37.9	54.2
72	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.5	3.6	5.1	7.3	10.5	15.2	18.4	25.7	37.1	53.3
73	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.5	3.6	5.0	7.1	10.3	14.9	17.9	25.2	36.4	52.3
74	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5	3.5	4.9	6.9	10.0	14.6	17.5	24.8	35.7	51.4
75	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.5	4.8	6.8	9.8	14.3	17.1	24.2	34.9	50.4
76	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.4	4.7	6.6	9.5	14.0	16.8	23.7	34.3	49.5
77	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.4	4.6	6.5	9.3	13.7	16.5	23.1	33.6	48.5
78	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.3	4.6	6.3	9.1	13.3	16.1	22.6	33.0	47.6
79	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.3	4.5	6.2	8.9	13.0	15.7	22.2	32.3	46.7
80	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.8	2.4	3.3	4.4	6.1	8.7	12.7	15.4	21.7	31.6	45.8
81	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.8	2.4	3.3	4.4	6.0	8.5	12.4	15.0	21.3	30.9	45.0
82	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.3	4.3	5.9	8.4	12.1	14.6	20.9	30.2	44.2
83	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.2	4.3	5.9	8.2	11.9	14.3	20.4	29.7	43.3
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.2	4.3	5.8	8.1	11.6	14.0	19.9	29.1	42.3
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.3	5.7	8.0	11.4	13.7	19.5	28.6	41.4
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.3	5.7	7.9	11.2	13.5	19.0	28.0	40.6
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.2	5.6	7.8	11.0	13.2	18.6	27.4	39.9
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.2	5.6	7.6	10.7	12.7	17.9	26.2	38.5
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.6	7.5	10.6	12.6	17.6	25.6	37.7
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.6	7.5	10.6	12.6	17.6	25.6	37.7
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.5	7.5	10.4	12.4	17.2	25.0	36.9
92	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.2	5.5	7.5	10.3	12.2	16.9	24.6	36.1
93	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.2	5.5	7.4	10.2	12.1	16.7	24.1	35.3
94	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.4	10.1	11.9	16.4	23.7	34.5
95	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.6	7.4	10.1	11.8	16.2	23.2	33.8
96	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.4	10.1	11.7	16.0	22.9	33.2
97	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.6	7.4	10.0	11.7	15.8	22.5	32.6
98	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.4	10.0	11.7	15.6	22.2	32.1
99	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.8	7.4	9.9	11.6	15.5	21.9	31.5
100	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.7	4.6	5.8	7.4	9.9	11.5	15.4	21.7	31.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 27 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.7	4.5	5.6	7.3	
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.1	2.3	2.7	3.1	3.6	4.7	5.9	7.6	
3	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	3.0	3.4	4.0	4.6	5.2	6.4	
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.2	3.7	4.3	4.6	5.5	6.7	8.5	
5	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.0	2.2	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9	
6	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3	
7	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.7	3.1	3.4	3.8	4.4	5.1	5.5	6.4	7.8	9.7	
8	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.9	2.1	2.4	2.7	2.9	3.3	3.7	4.1	4.6	5.4	5.8	6.8	8.2	10.1	
9	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.6	1.9	2.3	2.6	2.8	3.1	3.5	3.9	4.4	4.9	5.7	6.1	7.1	8.6	10.6	
10	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.7	2.0	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.5	7.5	9.0	11.0	
11	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.7	2.1	2.5	2.9	3.2	3.6	4.0	4.4	4.9	5.6	6.4	6.9	7.9	9.4	11.6	
12	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.5	2.9	3.2	3.6	4.0	4.3	4.7	5.2	5.9	6.8	7.3	8.4	9.9	
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.5	2.9	3.2	3.6	4.0	4.3	4.7	5.2	5.9	6.8	7.3	8.4	9.9	
14	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.3	4.8	5.4	5.9	6.7	7.6	8.1	9.3	11.0	
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.3	4.8	5.4	5.9	6.7	7.6	8.1	9.3	11.0	
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.3	4.8	5.4	5.9	6.7	7.6	8.1	9.3	11.0	
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.3	4.8	5.4	5.9	6.7	7.6	8.1	9.3	11.0	
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.5	4.2	4.8	5.5	6.1	6.7	7.5	8.5	9.1	10.4	12.2	14.6	
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.8	3.5	4.3	5.0	5.8	6.5	7.2	8.0	9.1	9.7	11.0	12.8	15.3	
20	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.7	4.4	5.3	6.1	6.9	7.6	8.5	9.6	10.2	11.6	13.5	16.1	
21	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.2	3.0	3.8	4.7	5.6	6.7	7.7	8.6	9.6	10.8	11.5	13.0	15.0	17.7	
22	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.0	3.9	4.9	5.9	7.0	8.1	9.1	10.2	11.5	12.2	13.7	15.8	18.6	
23	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	3.9	4.9	6.1	7.3	8.5	9.6	10.9	12.2	12.9	14.5	16.7	19.6	
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.9	5.0	6.2	7.7	9.2	10.7	12.1	13.7	14.5	15.4	16.2	18.6	21.6	
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.9	5.1	6.3	7.9	9.5	11.1	12.8	14.5	15.4	16.2	17.2	19.6	22.8	
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.7	5.9	7.4	9.3	11.1	13.0	14.9	16.1	17.2	19.2	21.9	25.2	
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.7	5.9	7.4	9.3	11.1	13.0	14.9	16.1	17.2	19.2	21.9	25.2	
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.7	5.9	7.4	9.3	11.1	13.0	14.9	16.1	17.2	19.2	21.9	25.2	
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.4	4.5	5.5	6.5	7.5	8.5	10.1	11.5	12.9	13.7	15.4	17.6	20.6	
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.3	5.3	6.3	7.3	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	

TEMPERATURE, DEGREES

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 27 PERCENT RELATIVE HUMIDITY

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ																10000
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.9	62.1
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	2.0	2.8	3.9	5.7	63.0
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	63.8
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.5	64.5
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.3	65.1
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5	3.5	5.2	65.3
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.4	5.0	65.3
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.3	3.4	4.9	64.8
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.8	63.9
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	62.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.1	4.6	61.4
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.4	60.4
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.3	59.4
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.2	58.5
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.8	4.0	57.6
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.7	4.0	56.8
67	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.9	56.1
68	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.8	55.3
69	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.5	3.7	54.3
70	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.5	3.6	53.4
71	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.5	3.6	52.5
72	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.8	2.5	3.5	51.5
73	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.8	2.4	3.4	50.6
74	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.4	49.6
75	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.4	48.7
76	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.3	47.7
77	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.3	46.8
78	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.2	45.9
79	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.2	45.1
80	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.4	3.2	44.3
81	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.2	43.4
82	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.2	42.5
83	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.2	41.6
84	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.5	1.9	2.4	3.2	40.7
85	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	39.9
86	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	39.2
87	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	38.6
88	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	37.8
89	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	37.0
90	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	36.2
91	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	35.5
92	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	34.7
93	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	33.9
94	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	33.2
95	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	32.6
96	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	32.1
97	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	31.5
98	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	31.0
99	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	30.5
100	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	30.0

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 20 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.5	3.9	4.6	5.8	7.5	
2	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.1	1.3	1.4	1.6	1.7	1.9	2.2	2.4	2.8	3.2	3.7	4.1	4.9	6.0	7.8	
3	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0	2.3	2.6	2.9	3.4	3.9	4.3	5.1	6.3	8.1	
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.1	3.5	3.8	4.4	4.8	5.7	6.9	8.8	
5	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.7	3.0	3.3	3.8	4.3	4.7	5.1	6.0	7.3	9.1	
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.6	2.9	3.2	3.6	4.0	4.5	5.2	5.4	6.3	7.6	9.5	
7	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.0	1.3	1.6	1.8	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.5	5.2	5.7	6.6	8.0	9.9		
8	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.6	6.0	7.0	8.4	10.4		
9	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.1	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.6	4.1	4.5	5.1	5.9	6.3	7.4	8.8	10.9		
10	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.7	2.0	2.4	2.8	3.0	3.3	3.7	4.2	4.6	5.1	5.8	6.6	7.5	8.7	10.3	12.4	
11	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.5	3.0	3.1	3.5	4.0	4.4	4.9	5.5	6.1	7.0	7.5	8.7	10.3	12.4	
12	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.6	3.1	3.2	3.7	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0	
13	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.3	3.9	4.5	5.1	5.6	6.2	6.9	7.9	8.4	9.7	11.4	13.7	
14	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.3	3.9	4.5	5.1	5.6	6.2	6.9	7.9	8.4	9.7	11.4	13.7	
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.3	2.8	3.3	3.5	4.1	4.7	5.4	6.0	6.6	7.4	8.4	8.9	10.2	12.0	14.3	
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.3	2.8	3.3	3.5	4.1	4.7	5.4	6.0	6.6	7.4	8.4	8.9	10.2	12.0	14.3	
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.3	2.8	3.3	3.5	4.1	4.7	5.4	6.0	6.6	7.4	8.4	8.9	10.2	12.0	14.3	
18	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.5	3.6	4.4	5.2	6.0	6.7	7.5	8.3	9.4	10.0	11.4	13.3	15.8	
19	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.5	3.6	4.4	5.2	6.0	6.7	7.5	8.3	9.4	10.0	11.4	13.3	15.8	
20	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.5	3.6	4.4	5.2	6.0	6.7	7.5	8.3	9.4	10.0	11.4	13.3	15.8	
21	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.0	3.7	3.7	4.5	5.4	6.3	7.1	8.0	8.9	10.0	10.6	11.3	12.7	14.8	17.4
22	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.0	3.7	3.7	4.5	5.4	6.3	7.1	8.0	8.9	10.0	10.6	11.3	12.7	14.8	17.4
23	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.0	3.8	3.8	4.7	5.7	6.9	7.9	8.9	10.0	11.2	12.0	13.5	15.6	18.3	
24	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.1	3.0	3.9	3.9	4.8	5.9	7.2	8.3	9.4	10.6	11.9	12.7	14.3	16.4	19.2	
25	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	3.9	3.9	4.9	6.0	7.4	8.7	10.0	11.3	12.7	13.4	15.1	17.3	20.2	
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.5	2.0	2.7	3.9	5.0	6.2	7.8	9.4	11.0	12.5	14.3	15.1	16.9	19.3	22.4		
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.5	2.0	2.7	3.9	5.0	6.2	7.8	9.4	11.0	12.5	14.3	15.1	16.9	19.3	22.4		
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.5	2.0	2.7	3.9	5.0	6.2	7.8	9.4	11.0	12.5	14.3	15.1	16.9	19.3	22.4		
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.5	2.0	2.7	3.9	5.0	6.2	7.8	9.4	11.0	12.5	14.3	15.1	16.9	19.3	22.4		
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.5	2.0	2.7	3.9	5.0	6.2	7.8	9.4	11.0	12.5	14.3	15.1	16.9	19.3	22.4		
31	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
32	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
33	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
34	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
35	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
36	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
37	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
38	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
39	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
40	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
41	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
42	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
43	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
44	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
45	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
46	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
47	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
48	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
49	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.3	4.6	5.4	6.4	7.6	8.6	10.0	11.4	13.2	15.1	16.9	20.4	23.6	

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 20 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.7	8.0	11.1	15.7	21.9	26.0	35.9	48.6	62.3	
52	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.8	10.9	15.3	21.5	25.5	35.1	48.6	63.1	
53	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.6	15.0	21.2	25.0	34.4	48.5	63.9	
54	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.5	3.6	5.3	7.4	10.4	14.7	20.9	24.6	33.7	47.9	64.4	
55	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.7	2.5	3.5	5.1	7.2	10.1	14.4	20.5	24.3	33.1	47.1	64.6	
56	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.1	9.9	14.1	20.1	23.9	32.6	46.0	64.5	
57	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.8	6.9	9.7	13.8	19.7	23.5	32.0	45.1	64.1	
58	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.4	19.3	23.0	31.6	44.4	63.2	
59	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.2	13.1	18.9	22.5	31.1	43.6	61.8	
60	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.5	6.3	9.0	12.8	18.5	22.1	30.6	42.9	60.6	
61	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.4	6.2	8.8	12.5	18.1	21.6	30.0	42.3	59.6	
62	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.3	6.1	8.5	12.3	17.7	21.2	29.5	41.7	58.6	
63	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.1	5.9	8.3	12.0	17.3	20.7	28.9	41.1	57.7	
64	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.7	4.0	5.8	8.1	11.7	16.9	20.3	28.3	40.4	56.9	
65	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.7	3.9	5.6	8.0	11.4	16.4	19.8	27.7	39.7	56.1	
66	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.8	5.5	7.8	11.1	16.2	19.4	27.1	38.9	55.4	
67	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.7	5.3	7.6	10.9	15.9	19.0	26.6	38.2	54.5	
68	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.7	5.2	7.4	10.6	15.5	18.6	26.0	37.5	53.6	
69	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.6	5.1	7.2	10.4	15.1	18.2	25.5	36.7	52.7	
70	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.5	3.5	4.9	7.0	10.2	14.7	17.8	25.0	36.0	51.7	
71	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.4	3.5	4.8	6.8	9.9	14.4	17.3	24.5	35.3	50.8	
72	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.8	2.4	3.4	4.7	6.7	9.7	14.1	16.9	24.0	34.6	49.8	
73	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.8	2.4	3.4	4.6	6.5	9.4	13.8	16.6	23.4	33.9	48.9	
74	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.3	4.6	6.4	9.2	13.5	16.3	22.9	33.2	48.0	
75	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.3	4.5	6.3	9.0	13.2	15.9	22.4	32.6	47.0	
76	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.4	3.2	4.4	6.1	8.8	12.9	15.6	21.9	32.0	46.1	
77	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.4	6.0	8.6	12.6	15.2	21.5	31.2	45.2	
78	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.3	5.9	8.4	12.3	14.8	21.1	30.5	44.4	
79	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.2	5.8	8.3	12.0	14.5	20.6	29.9	43.6	
80	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	2.3	3.2	4.2	5.8	8.1	11.7	14.1	20.2	29.2	42.8	
81	S	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.1	4.2	5.7	8.0	11.5	13.8	19.7	28.7	41.8
82	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.1	4.2	5.6	7.8	11.3	13.5	19.2	28.2	40.9
83	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	4.2	5.5	7.7	11.0	13.3	18.8	27.6	40.1
84	H	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.1	5.5	7.6	10.8	13.0	18.4	27.0	39.3
85	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.1	5.5	7.5	10.7	12.8	18.0	26.4	38.6
86	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.5	7.4	10.5	12.5	17.6	25.8	37.9
87	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.5	7.3	10.4	12.3	17.3	25.2	37.2
88	H	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.4	7.3	10.2	12.2	17.0	24.7	36.4
89	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.4	7.3	10.1	12.0	16.7	24.2	35.6
90	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.4	7.3	10.0	11.8	16.4	23.7	34.9
91	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.4	7.2	9.9	11.7	16.1	23.3	34.1
92	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	7.2	9.8	11.5	15.9	22.9	33.4
93	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	7.2	9.8	11.4	15.7	22.5	32.7
94	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.2	9.8	11.4	15.5	22.1	32.1
95	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.2	9.7	11.4	15.3	21.8	31.5
96	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.2	9.7	11.3	15.1	21.5	31.0
97	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.7	11.3	15.0	21.2	30.5
98	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.7	11.2	15.0	21.0	30.0
99	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.7	11.2	15.0	20.7	29.6
100	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.7	11.2	14.9	20.5	29.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 29 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.9	2.1	2.4	2.7	3.1	3.6	4.0	4.8	5.9	7.6
2	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	7.9
3	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.6	2.9	3.2	3.7	4.1	4.4	5.3	6.5	8.3
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.5	1.7	1.9	2.0	2.2	2.4	2.7	3.1	3.4	3.9	4.6	5.0	5.8	7.1	9.0
5	0.1	0.2	0.3	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.9	3.3	3.7	4.2	4.8	5.2	6.1	7.5	9.4
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.1	3.5	3.9	4.4	5.1	5.5	6.5	7.8	9.8
7	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.4	5.9	6.8	8.2	10.2
8	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.4	2.7	3.0	3.3	3.7	4.1	4.7	5.4	5.9	6.8	8.2	10.2	
9	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.6	3.9	4.4	5.0	5.8	6.2	7.2	8.7	10.7	
10	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.0	2.4	2.7	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.2	
11	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.5	2.9	3.3	3.6	4.1	4.5	5.0	5.7	6.5	6.9	8.0	9.6	11.7	
12	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.3	4.8	5.3	6.0	6.9	7.4	8.5	10.1	12.2	
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.2	2.6	3.2	3.7	4.1	4.6	5.1	5.7	6.4	7.3	7.8	8.9	10.6	12.8	
14	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.2	2.7	3.3	3.8	4.4	4.9	5.4	6.0	6.8	7.7	8.3	9.5	11.1	13.4	
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.8	3.4	4.0	4.6	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.7	14.1	
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	2.9	3.5	4.2	4.9	5.5	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.8	
17	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.6	4.3	5.1	5.9	6.6	7.3	8.2	9.2	9.8	11.2	13.0	15.5	
18	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.7	4.4	5.3	6.2	7.0	7.8	8.7	9.8	10.4	11.8	13.7	16.3	
19	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.2	3.0	3.8	4.6	5.6	6.5	7.4	8.3	9.2	10.4	11.0	12.5	14.5	17.1	
20	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	3.8	4.7	5.6	6.8	7.8	8.8	9.8	10.4	11.7	13.2	15.3	18.0	
21	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.8	4.7	5.8	7.0	8.2	9.3	10.4	11.7	12.4	14.0	16.1	18.9	
22	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	3.9	4.9	6.0	7.5	8.9	10.3	11.7	13.2	14.0	15.7	18.0	20.9	
23	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.8	4.9	6.1	7.7	9.2	10.8	12.3	14.0	14.8	16.6	19.0	22.0	
24	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	4.9	6.1	7.7	9.5	11.2	13.0	14.8	15.7	17.6	20.0	23.2	
25	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.0	6.2	7.9	9.5	11.2	13.0	14.8	15.7	17.6	20.0	23.2	
26	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.0	6.3	8.0	9.8	11.7	13.6	15.6	16.7	18.4	21.1	24.4	
27	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.9	6.4	8.2	10.0	12.0	14.2	16.4	17.5	19.7	22.3	25.7	
28	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.3	10.2	12.4	14.8	17.3	18.5	20.8	23.6	27.1	
29	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.7	6.4	8.4	10.4	12.7	15.3	18.1	19.4	22.0	24.9	28.6	
30	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.3	4.6	6.3	8.5	10.6	13.0	15.8	18.9	20.4	23.1	26.4	30.1	
31	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.0	6.3	8.0	9.8	11.7	13.6	15.6	16.7	18.4	21.1	24.4	
32	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.9	6.4	8.2	10.0	12.0	14.2	16.4	17.5	19.7	22.3	25.7	
33	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.3	10.2	12.4	14.8	17.3	18.5	20.8	23.6	27.1	
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.7	6.4	8.4	10.4	12.7	15.3	18.1	19.4	22.0	24.9	28.6	
35	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.3	4.6	6.3	8.5	10.6	13.0	15.8	18.9	20.4	23.1	26.4	30.1	
36	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.2	3.2	4.3	6.0	8.5	10.9	13.5	16.7	20.3	22.1	25.5	29.3	33.5	
37	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.2	3.1	4.3	5.8	8.4	11.0	13.7	17.0	20.9	22.9	26.8	30.8	35.3	
38	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	3.0	4.2	5.7	8.2	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3	
39	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.5	2.1	2.9	4.1	5.6	7.9	10.9	14.1	17.7	22.0	24.3	28.9	33.9	39.2	
40	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.0	2.9	4.0	5.5	7.8	10.8	14.2	18.2	22.4	25.0	29.9	35.5	41.0	
41	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	1.9	2.8	3.9	5.4	7.6	10.5	14.2	18.2	22.4	25.0	30.8	36.9	43.0	
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.9	2.7	3.8	5.3	7.4	10.2	14.1	18.4	23.3	26.0	31.6	38.2	45.0	
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.8	2.6	3.7	5.1	7.3	10.0	13.9	18.5	23.6	26.5	32.4	39.5	47.1	
44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.8	2.6	3.7	5.1	7.3	10.0	13.9	18.5	23.6	26.5	32.4	39.5	47.1	
45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.6	3.6	5.0	7.0	9.6	13.2	18.4	24.2	28.0	33.1	40.7	48.9	50.6	
46	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.5	4.9	7.0	9.4	12.9	18.2	24.4	28.4	34.8	43.7	53.8	55.3	
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.8	6.9	9.4	12.9	18.2	24.4	28.4	34.8	43.7	53.8	55.3	
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.8	6.9	9.4	12.9	18.2	24.4	28.4	34.8	43.7	53.8	55.3	
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.8	6.9	9.4	12.9	18.2	24.4	28.4	34.8	43.7	53.8	55.3	
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	4.8	6.9	9.4	12.9	18.2	24.4	28.4	34.8	43.7	53.8	55.3	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 29 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	Y	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.7	5.5	7.7	10.8	15.2	21.3	25.2	34.8	48.2	62.5	
52	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.5	10.5	14.9	21.0	24.8	34.0	48.0	63.2	
53	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.5	3.5	5.2	7.3	10.3	14.6	20.7	24.4	33.4	47.4	63.8	
54	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.2	1.7	2.4	3.5	5.1	7.1	10.0	14.2	20.3	24.0	32.8	46.6	64.0	
55	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.2	1.7	2.4	3.4	4.9	7.0	9.8	13.9	19.9	23.6	32.2	45.5	63.9	
56	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.8	6.8	9.6	13.6	19.5	23.2	31.7	44.7	63.4	
57	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.6	9.3	13.3	19.1	22.7	31.2	43.9	62.5	
58	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.1	4.6	6.4	9.1	13.0	18.7	22.3	30.8	43.1	61.1	
59	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.4	6.3	8.9	12.7	18.3	21.8	30.2	42.4	59.9	
60	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.3	6.1	8.7	12.4	17.9	21.4	29.7	41.8	58.9	
61	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	2.0	2.8	4.2	6.0	8.4	12.1	17.5	20.9	29.1	41.3	57.9	
62	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.9	17.1	20.5	28.5	40.6	57.0	
63	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.7	4.0	5.7	8.0	11.6	16.7	20.0	28.0	39.9	56.2	
64	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.7	3.9	5.5	7.9	11.3	16.3	19.6	27.4	39.2	55.4	
65	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.8	5.4	7.7	11.0	16.0	19.2	26.8	38.5	54.7	
66	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.5	3.7	5.2	7.5	10.7	15.7	18.8	26.2	37.7	53.8	
67	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.6	5.1	7.3	10.5	15.3	18.4	25.7	37.0	52.9	
68	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.5	5.0	7.1	10.3	14.9	18.0	25.2	36.3	52.0	
69	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.4	3.5	4.9	6.9	10.0	14.5	17.5	24.6	35.5	51.1	
70	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.4	3.4	4.8	6.7	9.8	14.2	17.1	24.1	34.8	50.1	
71	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.4	3.4	4.7	6.6	9.6	13.9	16.7	23.7	34.1	49.2	
72	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.4	3.3	4.6	6.4	9.3	13.7	16.3	23.1	33.4	48.2	
73	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.8	2.4	3.3	4.5	6.3	9.1	13.3	16.0	22.6	32.8	47.3	
74	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.4	6.2	8.8	13.0	15.7	22.0	32.2	46.4	
75	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.4	6.1	8.7	12.7	15.4	21.6	31.5	45.5	
76	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.3	5.9	8.5	12.4	15.0	21.2	30.8	44.6	
77	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.2	4.2	5.8	8.3	12.1	14.6	20.8	30.1	43.8	
78	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.1	4.2	5.8	8.1	11.8	14.3	20.3	29.4	43.0	
79	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.1	4.2	5.7	8.0	11.6	13.9	19.9	28.8	42.1	
80	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.1	4.1	5.6	7.8	11.3	13.6	19.4	28.3	41.2
81	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.1	4.1	5.5	7.7	11.1	13.3	19.0	27.8	40.3
82	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	4.1	5.5	7.6	10.9	13.1	18.5	27.2	39.5
83	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	4.1	5.4	7.5	10.7	12.8	18.1	26.6	38.7
84	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.1	5.4	7.4	10.5	12.6	17.7	26.0	38.0
85	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.1	5.4	7.3	10.4	12.4	17.4	25.4	37.4
86	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.4	7.2	10.2	12.2	17.0	24.9	36.6
87	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.3	7.2	10.1	12.0	16.7	24.3	35.9
88	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.3	7.2	10.0	11.8	16.4	23.8	35.1
89	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.3	7.2	9.8	11.7	16.1	23.4	34.3
90	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	7.1	9.7	11.5	15.9	23.0	33.5
91	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	7.1	9.7	11.4	15.7	22.5	32.8
92	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	7.1	9.7	11.3	15.5	22.1	32.2
93	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	7.1	9.7	11.2	15.3	21.8	31.6
94	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.1	9.6	11.2	15.1	21.5	31.1
95	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.6	11.2	14.9	21.2	30.5
96	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.7	3.5	4.4	5.5	7.1	9.5	11.1	14.8	20.9	30.0
97	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.5	11.1	14.8	20.7	29.6
98	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.5	11.1	14.8	20.4	29.2
99	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	11.1	14.7	20.2	28.8
100	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.7	4.6	5.8	7.4	9.6	11.1	14.7	20.1	28.4	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 30 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.2
2	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3
3	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.5
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.4	2.7
5	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.2	2.5	2.8
6	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.7	3.0
7	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.9	3.2
8	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	3.1	3.5
9	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.0	2.4	2.8	3.3	3.7
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.0	3.4	3.8	4.2
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.6	4.0	4.5
12	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
14	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.2	3.6	4.3	4.8

T E M P E R A T U R E , D E G R E E S F A H R E H I T

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE
BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 30 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																									
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
51	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.7	20.8	24.6	33.7	47.5	67.6		
52	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.7	2.5	3.5	5.2	7.2	10.2	14.4	20.5	24.2	33.1	47.0	63.1		
53	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.1	9.9	14.1	20.1	23.8	32.5	46.1	63.3		
54	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.9	6.9	9.7	13.8	19.7	23.4	31.9	45.0	63.2		
55	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.7	9.5	13.5	19.3	23.0	30.9	43.4	62.8		
56	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.2	13.2	18.9	22.5	30.4	43.4	61.9		
57	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.1	1.5	2.1	3.1	4.5	6.4	9.0	12.8	18.5	22.1	30.5	42.7	60.4		
58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.4	6.2	8.8	12.5	18.1	21.6	29.9	42.0	59.3		
59	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	2.0	2.9	4.3	6.1	8.6	12.3	17.7	21.1	29.4	41.4	58.3		
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	2.0	2.8	4.2	5.9	8.3	12.0	17.3	20.7	28.8	40.8	57.3		
61	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	2.0	2.7	4.0	5.8	8.1	11.7	16.9	20.2	28.2	40.2	56.4		
62	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.7	3.9	5.6	8.0	11.4	16.5	19.8	27.6	39.5	55.6		
63	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.8	5.5	7.8	11.1	16.2	19.4	27.1	38.8	54.8		
64	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.7	5.3	7.6	10.9	15.8	18.9	26.5	38.0	54.1		
65	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.7	5.2	7.4	10.6	15.5	18.5	25.9	37.3	53.2		
66	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.6	5.0	7.2	10.4	15.1	18.2	25.4	36.6	52.3		
67	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.4	3.5	4.9	7.0	10.2	14.7	17.7	24.9	35.8	51.4		
68	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.4	3.4	4.8	6.8	9.9	14.4	17.3	24.3	35.1	50.5		
69	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.4	3.4	4.7	6.7	9.7	14.0	16.9	23.9	34.4	49.5		
70	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.8	2.3	3.3	4.6	6.5	9.4	13.8	16.5	23.4	33.7	48.6		
71	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.8	2.3	3.2	4.5	6.4	9.2	13.5	16.1	22.8	33.0	47.7		
72	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.3	3.2	4.4	6.2	8.9	13.2	15.8	22.3	32.4	46.7		
73	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.3	3.2	4.4	6.1	8.7	12.8	15.5	21.8	31.8	45.8		
74	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.3	3.1	4.3	6.0	8.5	12.5	15.2	21.3	31.1	44.9		
75	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.3	3.1	4.2	5.8	8.4	12.2	14.8	20.9	30.4	44.1		
76	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.3	3.1	4.2	5.8	8.2	11.9	14.4	20.5	29.7	43.2		
77	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.1	4.1	5.7	8.0	11.6	14.1	20.1	29.0	42.5		
78	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.1	4.1	5.6	7.9	11.4	13.7	19.6	28.5	41.6		
79	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.1	4.1	5.5	7.7	11.2	13.4	19.1	27.9	40.7		
80	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.1	4.1	5.5	7.6	10.9	13.2	18.7	27.4	39.8		
81	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.1	4.1	5.4	7.5	10.7	12.9	18.2	26.9	39.0		
82	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.5	1.9	2.4	3.1	4.0	5.4	7.4	10.5	12.6	17.8	26.3	38.2		
83	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.5	1.9	2.4	3.1	4.0	5.4	7.3	10.4	12.4	17.5	25.7	37.5		
84	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.4	3.1	4.0	5.3	7.2	10.2	12.2	17.1	25.1	36.9		
85	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	1.9	2.4	3.1	4.0	5.3	7.2	10.1	12.0	16.8	24.5	36.1		
86	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.0	2.5	3.2	4.0	5.3	7.1	10.0	11.8	16.5	24.0	35.4		
87	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.0	2.5	3.2	4.0	5.3	7.1	9.8	11.7	16.2	23.5	34.6		
88	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.0	2.5	3.2	4.0	5.3	7.1	9.7	11.5	15.9	23.1	33.8		
89	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.0	2.5	3.3	4.2	5.3	7.0	9.6	11.4	15.7	22.6	33.4		
90	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.0	2.6	3.3	4.2	5.3	7.0	9.6	11.2	15.5	22.2	32.4		
91	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.6	2.1	2.6	3.3	4.2	5.3	7.0	9.6	11.1	15.3	21.8	31.8		
92	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.7	2.1	2.6	3.4	4.3	5.4	7.0	9.5	11.1	15.1	21.5	31.2		
93	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.7	2.1	2.6	3.4	4.3	5.4	7.0	9.5	11.1	14.9	21.2	30.7		
94	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.4	11.1	14.7	20.9	30.1		
95	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.4	11.0	14.7	20.7	29.6		
96	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.4	10.9	14.6	20.4	29.2		
97	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.4	10.9	14.6	20.2	28.8		
98	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.9	14.6	20.0	28.4		
99	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.9	14.5	19.8	28.1		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 31 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.3
2	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4
3	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6
4	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7
5	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.6	2.9
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.3	2.5	2.8	3.1
7	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.7	3.0	3.4
8	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.6
9	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.4	2.8	3.1	3.4	3.8
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	2.9	3.3	3.7	4.1
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.4
12	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.2	3.7	4.1	4.7
13	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.3	3.9	4.4	5.0
14	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.8	3.4	4.0	4.6	5.3
15	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.5	4.2	4.9	5.6
16	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.6	4.4	5.1	5.9
17	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.9	3.6	4.5	5.5	6.5
18	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	2.9	3.7	4.5	5.5	7.4
19	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.7	4.6	5.6	7.9
20	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	3.8	4.7	5.8	8.1
21	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.8	4.8	5.9	8.3
22	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	4.8	6.0	7.5
23	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	4.9	6.1	7.7
24	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.9	6.2	7.8
25	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.9	6.3	8.0
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.3	8.1
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.3	8.2
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.3	8.1
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.5	6.2	8.3
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.3	5.9	8.3
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.3
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	8.1
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.7
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.3
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.2
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.0	7.1
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.8	6.9
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.8	1.2	1.7	2.4	3.4	4.7	6.8
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.8	1.1	1.6	2.3	3.4	4.6	6.6
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.3	6.3
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1	6.0
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.3	0.5	0.7	0.9	1.3	2.0	2.7	3.9	5.7
48	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5
49	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.4
50	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.5	3.6	5.3

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 32 PERCENT RELATIVE HUMIDITY

BAND CENTER FREQUENCY, MZ																									
50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.4	4.0	4.3	5.1	6.4	8.1	
2	0.1	0.2	0.3	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.2	4.6	5.4	6.7	8.5	
3	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.4	2.7	3.0	3.4	3.8	4.5	4.8	5.7	7.0	8.8	
4	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.3	9.2	
5	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6	
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.6	5.3	5.7	6.7	8.1	10.0	
7	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.6	6.1	7.1	8.5	10.5	
8	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	8.9	11.0	
9	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.4	6.8	7.9	9.4	11.5	
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.4	3.8	4.2	4.7	5.2	5.9	6.7	7.2	8.3	9.9	12.0	
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.4	3.1	3.6	4.0	4.5	5.0	5.6	6.3	7.2	7.7	8.8	10.4	12.6	
12	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.2	3.8	4.3	4.9	5.4	5.9	6.7	7.6	8.1	9.3	11.0	13.2	
13	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.3	3.9	4.5	5.2	5.7	6.3	7.1	8.1	8.6	9.8	11.6	13.9	
14	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.1	10.4	12.2	14.6	
15	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.5	4.2	5.0	5.8	6.5	7.2	8.0	9.1	9.7	11.0	12.9	15.3	
16	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.9	3.6	4.4	5.2	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.1	
17	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.6	4.5	5.4	6.4	7.3	8.2	9.1	10.3	10.9	12.3	14.3	16.9	
18	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.7	4.6	5.5	6.7	7.7	8.7	9.7	10.9	11.6	13.1	15.1	17.8	
19	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.7	4.6	5.7	6.9	8.1	9.1	10.3	11.6	12.3	13.8	16.0	18.7	
20	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.8	4.7	5.8	7.2	8.4	9.7	10.9	12.3	13.0	14.7	16.9	19.7	
21	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.8	6.0	7.5	9.1	10.6	12.2	13.9	14.7	16.4	18.8	21.9	
22	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.9	6.1	7.7	9.4	11.1	12.8	14.7	15.6	17.4	19.9	23.0	
23	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.9	6.1	7.7	9.4	11.1	12.8	14.7	15.6	17.4	19.9	23.0	
24	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.2	7.9	9.6	11.9	14.1	16.3	17.5	19.6	22.2	25.6	
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.2	8.0	9.8	11.9	14.1	16.3	17.5	19.6	22.2	25.6	
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.3	8.1	10.0	12.2	14.6	17.1	18.3	20.7	23.5	27.0	
27	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.2	8.2	10.2	12.5	15.1	18.0	19.3	21.9	24.8	28.5	
28	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.1	8.3	10.4	12.8	15.6	18.7	20.2	23.0	26.3	30.0	
29	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.3	10.5	13.0	16.0	19.4	21.1	24.2	27.8	31.7	
30	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.2	10.6	13.2	16.4	20.0	21.9	25.4	29.2	33.4	
31	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.1	10.7	13.4	16.7	20.6	22.7	26.5	30.7	35.3	
32	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.7	13.6	17.0	21.2	23.4	27.6	32.2	37.2	
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.7	10.6	13.8	17.3	21.6	24.0	28.6	33.7	39.0	
34	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5	10.4	13.8	17.6	22.1	24.6	29.5	35.2	40.9	
35	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.3	10.1	13.8	17.8	22.5	25.1	30.4	36.6	42.9	
36	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.2	9.8	13.6	18.0	22.9	25.6	31.2	37.9	44.9	
37	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	7.0	9.6	13.4	18.0	23.2	26.0	31.9	39.1	46.8	
38	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.8	6.9	9.4	13.0	18.0	23.5	26.4	32.5	40.2	48.6	
39	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.7	6.7	9.2	12.7	17.8	23.7	26.8	33.1	41.3	50.3	
40	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.6	6.6	9.1	12.4	17.5	23.8	27.1	33.7	42.2	51.8	
41	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.2	4.4	6.4	8.9	12.2	17.0	23.6	27.3	34.2	43.0	53.3	
42	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.3	8.7	11.9	16.6	23.6	27.3	34.6	43.8	54.6	
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1	8.5	11.7	16.3	23.1	27.2	35.0	44.5	55.8	
44	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.3	11.5	16.0	22.5	26.9	35.3	45.2	56.9	
45	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.1	11.3	15.7	22.1	26.3	35.3	45.8	57.9	
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.6	7.9	11.0	15.4	21.6	25.6	35.2	46.3	58.9	
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.8	15.1	21.7	25.1	34.7	46.7	59.8	
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.4	7.5	10.5	14.8	20.8	24.6	34.0	46.8	60.6	
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.5	3.5	5.2	7.3	10.3	14.5	20.5	24.2	33.7	46.7	61.3	
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	5.1	7.1	10.0	14.2	20.2	23.8	32.6	46.2	61.9	

T E M P E R A T U R E , D E G R E E S F A H R E H I T

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 33 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4
2	0.1	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6
3	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.5	2.8
4	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.6	2.9
5	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.7	3.0	3.4
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.2	3.6
7	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.3	1.6	2.0	2.4	2.8	3.1	3.5	3.9
8	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.0	2.5	2.9	3.3	3.7	4.1
9	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.5	3.9	4.4
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.5	4.2	4.7
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.2	3.7	4.2	4.7
12	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.2	2.7	3.3	3.9	4.4	5.0
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.2	2.7	3.4	4.0	4.7	5.3
14	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.2	2.8	3.5	4.2	4.9	5.6
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.2	2.8	3.5	4.3	5.1	6.0
16	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.6	4.4	5.3	6.3
17	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.7	4.5	5.4	6.5
18	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.7	4.5	5.4	6.5
19	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
20	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
21	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
22	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
23	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
24	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
25	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
26	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
27	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
28	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
29	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
30	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
31	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
32	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
33	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
35	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
36	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
37	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
38	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
39	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
40	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
41	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
46	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	2.0	2.8	3.7	4.7	5.7	7.0

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 33 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
T	51	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.8
E	52	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2	4.6
M	53	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.5
P	54	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.4
E	55	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.5	2.0	2.9	4.3
	56	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.8	4.2
R	57	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.0	1.4	1.9	2.7	4.1
A	58	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.4	1.9	2.7	3.9
T	59	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	1.9	2.6	3.8
E	60	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.6	3.7
	61	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.5	3.6
P	62	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.4	3.5
E	63	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.4	3.5
	64	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.4	3.4
R	65	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.3
A	66	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.3
T	67	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2
E	68	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2
	69	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.1
P	70	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.1
E	71	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0
	72	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.2	3.0
R	73	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.2	3.0
A	74	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	3.0
T	75	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	3.0
E	76	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.0
	77	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.0
P	78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.0
E	79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.0
	80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.4	3.0
R	81	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0
A	82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0
T	83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0
E	84	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.0
	85	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2
P	86	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2
E	87	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2
	88	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3
R	89	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3
A	90	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3
T	91	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3
E	92	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4
	93	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4
P	94	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	1.1	1.3	1.7	2.1	3.4
E	95	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	1.1	1.3	1.7	2.2	3.5
	96	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.7	2.2	3.5
R	97	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.6
A	98	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.6
T	99	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.6
E	100	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 34 PERCENT RELATIVE HUMIDITY

BAND CENTER FREQUENCY, MHz																									
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.1	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.4	
2	0.1	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.2	1.4	1.6	1.8	1.9	2.1	2.4	2.7	3.0	3.4	3.8	4.5	4.8	5.7	7.0	8.8	
3	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.3	9.2	
4	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6	
5	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.6	5.3	5.7	6.7	8.1	10.0	
6	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.6	6.1	7.1	8.5	10.5	
7	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	8.9	11.0	
8	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.6	6.4	6.8	7.9	9.4	11.5	
9	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.4	3.8	4.3	4.7	5.3	5.9	6.8	7.2	8.3	9.9	12.1	
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.1	3.6	4.0	4.6	5.0	5.6	6.3	7.2	7.7	8.8	10.4	12.6	
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.8	4.3	4.9	5.4	6.0	6.7	7.6	8.2	9.3	11.0	13.3	
12	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.3	3.9	4.5	5.2	5.7	6.4	7.1	8.1	9.2	10.5	12.2	14.6	
13	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.2	2.7	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.7	11.1	12.9	15.4	
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.2	2.8	3.5	4.2	5.0	5.8	6.5	7.2	8.1	9.1	9.7	11.1	12.9	15.4	17.9	
15	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.5	4.3	5.2	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.4	16.2	
16	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.6	4.4	5.4	6.4	7.3	8.2	9.2	10.3	11.0	12.4	14.4	17.0	
17	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.7	4.5	5.5	6.7	7.7	8.7	9.8	11.0	11.7	13.1	15.2	17.9	
18	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.7	4.6	5.6	6.9	8.1	9.2	10.4	11.7	12.4	13.9	16.0	18.8	
19	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.7	4.6	5.6	7.1	8.4	9.7	11.0	12.4	13.1	14.8	17.0	19.8	
20	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.7	5.9	7.3	8.8	10.2	11.6	13.2	13.9	15.6	17.9	20.9	
21	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.8	6.0	7.5	9.1	10.7	12.3	14.0	14.8	16.6	18.9	22.0	
22	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.5	3.6	4.8	6.1	7.7	9.3	11.1	12.9	14.8	15.7	17.6	20.0	23.5	
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.1	7.8	9.6	11.5	13.5	15.6	16.6	18.6	21.2	24.2	
24	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.2	7.9	9.8	11.8	14.1	16.4	17.5	19.8	22.4	25.8	
25	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.4	6.2	8.0	10.0	12.2	14.6	17.2	18.4	20.9	23.7	27.2	
26	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.1	8.1	10.1	12.4	15.1	18.0	19.4	22.0	25.1	28.7	
27	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.2	10.3	12.7	15.6	18.7	20.3	23.2	26.6	30.3	
28	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.1	10.4	12.9	16.0	19.4	21.1	24.3	28.0	32.0	
29	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.0	10.5	13.1	16.3	20.0	21.9	25.6	29.4	33.8	
30	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.5	13.3	16.6	20.6	22.7	26.6	30.9	35.7	
31	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.6	10.5	13.5	16.9	21.1	23.3	27.7	32.4	37.5	
32	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.2	7.4	10.3	13.6	17.2	21.5	23.9	28.6	34.0	39.4	
33	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.1	7.3	10.1	13.6	17.4	21.9	24.9	28.5	35.4	41.3	47.7	
34	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	7.1	9.8	13.5	17.6	22.3	24.9	30.4	36.7	43.3	50.3	
35	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	7.0	9.6	13.3	17.7	22.7	25.4	31.1	38.0	45.3	52.8	
36	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.7	9.2	12.9	17.7	23.0	25.8	31.7	39.1	47.0	55.1	
37	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.7	6.7	9.2	12.6	17.6	23.2	26.2	32.4	40.2	48.7	57.6	
38	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.5	6.5	9.0	12.3	17.3	23.4	26.5	32.9	41.1	50.3	59.3	
39	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.4	8.8	12.1	16.9	23.3	26.8	33.4	41.9	51.8	61.0	
40	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.2	8.6	11.8	16.5	23.4	27.3	34.3	42.8	53.2	63.5	
41	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1	8.4	11.6	16.1	22.9	26.8	34.3	43.5	54.5	65.6	
42	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.2	11.4	15.8	22.4	26.4	34.6	44.2	55.6	67.1	
43	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	8.0	11.2	15.5	21.9	26.1	34.7	44.8	56.6	68.7	
44	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.9	15.2	21.4	25.4	34.7	45.3	57.6	70.1	
45	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.5	10.7	15.0	21.0	24.9	34.7	45.8	58.5	71.3	
46	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.7	20.6	24.4	33.7	46.0	60.0	73.3	
47	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.8	2.5	3.5	5.2	7.3	10.2	14.4	20.2	23.9	32.8	45.9	60.0	74.0	
48	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.7	2.4	3.4	5.0	7.1	9.9	14.1	19.9	23.5	32.2	45.6	60.7	75.0	
49	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.4	3.3	4.9	6.9	9.7	13.7	19.6	23.1	31.6	44.9	61.0	76.0	
50	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.4	19.2	22.8	31.0	43.9	61.0	77.0	

TEMPERATURE, °C

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE
BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 34 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2	4.6
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.1	4.5
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.5	2.1	3.0	4.4
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.5	2.0	2.9	4.3
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.8	4.2
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	1.9	2.7	4.0
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.4	1.9	2.7	3.9
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.3	1.9	2.6	3.8
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.5	3.7
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.5	3.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.4	3.5
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.4	3.4
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.4
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.3
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.2
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.1
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.1
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.0
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.2	3.0
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	3.0
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	2.3	3.0
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.3	3.0
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8

T E M P E R A T U R E , ° F D E B I T H F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 35 PERCENT RELATIVE HUMIDITY

BAND CENTER FREQUENCY, MZ																									
50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
1	0.1	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.7	4.3	4.7	5.5	6.8	8.6	
2	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.1	3.5	3.9	4.6	5.0	5.8	7.1	9.0	
3	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.5	9.4	
4	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.5	5.2	5.6	6.5	7.9	9.8	
5	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.2	2.5	2.7	3.0	3.4	3.7	4.2	4.8	5.5	5.9	6.9	8.3	10.2	
6	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.6	4.0	4.5	5.1	5.8	6.3	7.3	8.7	10.7	
7	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.6	7.7	9.2	11.2	
8	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.9	3.3	3.7	4.1	4.6	5.1	5.7	6.6	7.0	8.1	9.7	11.8	
9	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.5	3.9	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.2	12.3	
10	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.7	4.2	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9	
11	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.7	3.3	3.8	4.4	5.0	5.6	6.2	6.9	7.9	8.4	9.6	11.3	13.6	
12	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.2	1.7	2.2	2.7	3.3	4.0	4.7	5.3	5.9	6.6	7.4	8.3	8.9	10.2	11.9	14.3	
13	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.5	4.3	5.1	5.6	6.3	7.0	7.8	8.9	9.5	10.8	12.6	15.0	
14	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.5	4.3	5.1	5.6	6.3	7.0	7.8	8.9	9.5	10.8	12.6	15.0	
15	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.6	4.4	5.3	6.3	7.1	8.0	9.0	10.0	10.7	12.1	14.0	16.6	
16	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.6	4.4	5.3	6.3	7.1	8.0	9.0	10.0	10.7	12.1	14.0	16.6	
17	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.8	3.7	4.5	5.6	6.8	7.5	8.9	10.1	11.3	12.0	13.5	15.6	18.4	
18	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.7	4.6	5.7	7.0	8.3	9.4	10.7	12.0	12.8	14.4	16.5	19.3	
19	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.7	5.8	7.2	8.6	10.0	11.3	12.6	13.6	15.2	17.5	20.4	
20	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.7	5.9	7.4	8.9	10.4	11.9	13.6	14.4	16.1	18.5	21.5	
21	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.6	4.8	6.0	7.5	9.2	10.9	12.6	14.4	15.3	17.1	19.5	22.6	
22	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.7	6.1	7.7	9.4	11.3	13.2	15.2	16.2	18.1	20.7	23.9	
23	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.5	6.1	7.9	9.6	11.6	13.6	16.0	17.1	19.2	21.8	25.2	
24	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	6.1	7.9	9.8	12.0	14.4	16.8	18.0	20.4	23.1	26.8	
25	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.0	8.0	10.0	12.3	14.9	17.6	18.9	21.5	24.5	28.0	
26	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.1	10.2	12.5	15.3	18.4	19.9	22.6	25.9	29.6	
27	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.1	10.3	12.8	15.7	19.0	20.7	23.8	27.4	31.2	
28	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	3.0	4.1	5.6	8.0	10.4	13.0	16.1	19.7	21.5	25.0	28.8	33.0	
29	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.5	13.2	16.4	20.3	22.3	26.1	30.2	34.9	
30	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.6	10.4	13.3	16.7	20.8	23.0	27.1	31.8	36.8	
31	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.2	7.4	10.3	13.5	17.0	21.2	23.4	28.2	33.3	38.4	
32	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	7.3	10.1	13.5	17.2	21.7	24.1	29.1	34.8	40.4	
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	7.1	9.8	13.4	17.4	22.1	24.6	29.9	36.1	42.4	
34	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	7.0	9.6	13.3	17.6	22.4	25.1	30.7	37.3	44.4	
35	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.3	12.9	17.6	22.7	25.5	31.3	38.5	46.2	
36	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.7	6.7	9.1	12.6	17.5	23.0	25.9	31.9	39.6	47.9	
37	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	9.0	12.3	17.3	23.2	26.2	32.5	40.6	49.6	
38	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.4	8.8	12.0	16.9	23.1	26.5	33.1	41.4	51.1	
39	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.2	8.6	11.8	16.4	23.2	26.7	33.5	42.2	52.5	
40	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1	8.4	11.6	16.1	22.9	26.6	33.9	43.0	53.8	
41	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.2	11.4	15.8	22.4	26.4	34.3	43.7	54.9	
42	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	8.0	11.1	15.4	21.8	26.0	34.5	44.3	55.9	
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.9	15.2	21.3	25.3	34.4	44.9	56.9	
44	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.6	10.7	14.9	20.9	24.8	34.1	45.3	57.8	
45	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.6	20.5	24.3	33.6	45.6	58.6	
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.2	7.2	10.2	14.3	20.1	23.8	32.7	45.6	59.4	
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.9	14.0	19.8	23.4	32.1	45.3	60.0	
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.9	6.9	9.7	13.7	19.5	23.0	31.4	43.7	60.5	
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.4	19.1	22.6	30.8	43.7	60.6	
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.2	13.1	18.2	22.2	30.3	42.8	60.4	

T E M P E R A T U R E , D E G R E E S F A H

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 36 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	T	0.1	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.4	1.5	1.7	1.9	2.1	2.4	2.6	3.0	3.3	3.8	4.4	4.8	5.7	7.0	8.8
2	E	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.3	9.2
3	M	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6
4	P	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.7	8.1	10.0
5	R	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.6	6.1	7.1	8.5	10.5
6	E	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	8.9	11.0
7	N	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.3	6.8	7.9	9.4	11.5
8	I	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.0	2.5	3.0	3.4	3.8	4.3	4.7	5.2	5.9	6.7	7.2	8.3	9.9	12.0
9	T	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.6	4.0	4.6	5.0	5.6	6.3	7.2	7.7	8.8	10.4	12.6
10	R	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.6	4.0	4.6	5.0	5.6	6.0	6.7	7.6	8.1	9.3	11.0
11	E	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.7	3.3	3.9	4.5	5.2	5.7	6.4	7.1	8.1	8.6	9.9	11.6	13.9
12	A	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.2	10.5	12.2	14.6
13	U	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.4	4.2	5.0	5.8	6.5	7.3	8.1	9.1	9.7	11.1	12.9	15.4
14	T	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.5	4.3	5.1	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.2
15	R	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.6	4.4	5.3	6.4	7.3	8.2	9.2	10.3	11.0	12.4	14.4	17.0
16	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.8	3.6	4.5	5.5	6.6	7.7	8.7	9.8	11.0	11.7	13.2	15.2	17.9
17	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.6	5.7	7.1	8.4	9.7	11.0	12.4	14.0	16.1	18.9
18	R	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.7	5.9	7.4	9.0	10.6	12.3	14.0	15.7	18.0	20.9	24.5
19	E	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.7	6.0	7.6	9.3	11.1	12.9	14.8	15.8	17.6	20.1	23.3
20	.	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.7	6.0	7.6	9.3	11.1	12.9	14.8	15.8	17.6	20.1	23.3
21	D	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.7	6.1	7.7	9.5	11.4	13.5	15.6	16.7	18.7	21.3	24.5
22	E	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.1	7.8	9.7	11.8	14.1	16.4	17.6	19.9	22.5	25.9
23	G	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.0	8.0	9.9	12.1	14.6	17.3	18.5	21.0	23.8	27.3
24	R	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.0	10.0	12.3	15.1	18.0	19.5	22.1	25.2	28.9
25	E	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.0	10.2	12.6	15.5	18.7	20.3	23.2	26.7	30.5
26	R	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.0	10.3	12.8	15.9	19.3	21.1	24.4	28.1	32.2
27	E	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.4	13.0	16.2	19.9	21.9	25.6	29.6	34.0
28	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	1.0	1.4	2.0	2.8	3.9	5.4	7.7	10.4	13.2	16.5	20.5	22.6	26.7	31.1	35.9
29	S	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.2	7.4	10.3	13.3	16.8	20.9	23.2	27.7	32.6	37.7
30	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.1	7.3	10.1	13.4	17.0	21.4	23.8	28.6	34.1	39.6
31	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.1	7.1	9.8	13.4	17.2	21.8	24.3	29.4	35.4	41.5
32	H	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	6.9	9.4	13.2	17.4	22.1	24.8	30.2	36.7	43.5
33	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.3	13.0	17.5	22.5	25.2	30.9	37.9	45.4
34	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.7	6.7	9.1	12.6	17.4	22.7	25.6	31.5	39.0	47.1
35	N	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	8.9	12.3	16.9	23.1	26.2	32.1	40.0	48.8
36	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.4	8.8	12.0	16.9	23.1	26.2	32.7	40.9	50.3
37	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.4	8.8	12.0	16.9	23.1	26.2	32.7	40.9	50.3
38	I	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.2	8.6	11.8	16.4	23.0	26.4	33.1	41.7	51.7
39	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.4	11.5	15.7	22.3	26.3	33.6	42.5	53.0
40	I	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.9	8.2	11.3	15.4	21.7	25.9	32.1	40.0	48.8
41	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	8.0	11.1	15.4	21.7	25.9	34.2	43.8	55.2
42	N	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.9	15.1	21.3	25.3	34.2	44.4	56.2
43	I	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.6	10.6	14.8	20.8	24.7	34.0	44.9	57.2
44	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.6	20.4	24.2	33.5	45.2	58.0
45	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.1	14.3	20.0	23.7	32.7	45.3	58.8
46	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.9	14.0	19.7	23.3	32.0	45.1	59.4
47	O	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.9	6.9	9.6	13.6	19.4	22.9	31.3	44.5	60.0
48	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	19.0	22.5	30.7	43.6	60.1
49	O	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.2	13.0	18.6	22.1	30.2	42.6	59.9
50	I	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.5	6.3	8.9	12.7	18.2	21.7	29.7	41.8	59.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 36 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	1.5	2.1	3.0	4.4	6.2	8.7	12.4	17.8	21.2	29.2	41.0	58.4	
52	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.5	12.1	17.4	20.8	28.7	40.3	57.0	
53	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.3	11.8	17.0	20.3	28.2	39.6	55.9	
54	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.0	11.5	16.6	19.9	27.6	39.0	54.9	
55	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	1.9	2.6	3.9	5.6	7.8	11.0	16.2	19.4	27.1	38.5	54.0	
56	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.3	1.8	2.6	3.8	5.4	7.6	11.0	15.8	19.0	26.5	37.8	53.1	
57	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	1.0	1.3	1.8	2.5	3.7	5.3	7.4	10.7	15.5	18.5	25.9	37.1	52.3		
58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	1.0	1.3	1.8	2.5	3.6	5.1	7.3	10.4	15.1	18.1	25.4	36.4	51.6		
59	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.4	3.5	5.0	7.1	10.1	14.8	17.7	24.8	35.6	50.8	
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.3	3.3	4.7	6.7	9.7	14.1	17.0	23.7	34.2	49.9	
61	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.3	3.3	4.7	6.7	9.7	14.1	17.0	23.7	34.2	49.9	
62	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.3	3.3	4.6	6.5	9.5	13.7	16.5	23.2	33.5	48.1	
63	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.2	4.5	6.4	9.2	13.4	16.1	22.7	32.8	47.2	
64	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.1	4.4	6.2	9.0	13.1	15.7	22.3	32.1	46.3	
65	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.1	4.3	6.0	8.7	12.8	15.3	21.7	31.4	45.3	
66	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.2	3.0	4.2	5.9	8.5	12.5	15.0	21.2	30.7	44.4	
67	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.2	3.0	4.1	5.8	8.3	12.2	14.7	20.7	30.1	43.5	
68	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.2	3.0	4.1	5.7	8.1	11.9	14.4	20.2	29.5	42.6	
69	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.5	7.8	11.3	13.7	19.4	28.1	41.0	
70	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.5	7.8	11.3	13.7	19.4	28.1	41.0	
71	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.9	3.9	5.4	7.6	11.0	13.3	19.0	27.5	40.2	
72	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.9	3.9	5.2	7.3	10.6	12.7	18.1	26.4	38.5	
73	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.9	3.8	5.2	7.3	10.6	12.7	18.1	26.4	38.5	
74	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9	3.8	5.1	7.2	10.3	12.4	17.1	25.9	37.6	
75	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9	3.8	5.1	7.1	10.1	12.2	17.2	25.4	36.8	
76	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.8	5.1	7.0	9.9	11.9	16.8	24.8	36.1	
77	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.8	5.0	6.9	9.8	11.7	16.5	24.2	35.4	
78	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.8	5.0	6.8	9.6	11.5	16.1	23.7	34.8	
79	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.8	5.0	6.7	9.5	11.3	15.8	23.1	34.1	
80	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	2.3	3.0	3.8	5.0	6.7	9.4	11.1	15.5	22.6	33.3	
81	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	5.0	6.7	9.2	11.0	15.2	22.1	32.6
82	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	5.0	6.7	9.1	10.8	15.0	21.7	31.9
83	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	5.0	6.6	9.0	10.7	14.8	21.3	31.1
84	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	5.0	6.6	9.0	10.6	14.5	20.9	30.5	
85	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.6	9.0	10.5	14.4	20.5	29.9	
86	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.0	6.6	9.0	10.4	14.2	20.2	29.4	
87	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.6	8.9	10.4	14.0	19.9	28.8	
88	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3	4.1	5.2	6.6	8.9	10.3	13.9	19.7	28.3	
89	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.2	6.6	8.9	10.3	13.8	19.4	27.9	
90	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.9	10.3	13.8	19.2	27.4	
91	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.9	10.3	13.7	19.0	27.1	
92	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.3	13.7	18.8	26.4	
93	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.3	13.6	18.7	26.4	
94	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.5	7.0	9.0	10.3	13.6	18.6	26.1	
95	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.3	13.5	18.6	25.6	
96	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.5	18.5	25.6	
97	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.6	18.4	25.4	
98	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	18.4	25.4	
99	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	18.4	25.4	
100	0.1	0.1	0.2	0.2	0.2	0.3	0.4																			

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 37 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.1	3.4	3.9	4.6	4.9	5.8	7.1	8.9
2	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.2	4.8	5.2	6.1	7.5	9.3
3	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.4	5.1	5.5	6.5	7.8	9.8
4	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.7	4.2	4.7	5.4	5.9	6.8	8.2	10.2
5	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.2	2.6	2.9	3.2	3.6	4.0	4.4	5.0	5.8	6.2	7.2	8.7	10.7
6	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.3	2.7	3.1	3.4	3.8	4.3	4.7	5.4	6.1	6.6	7.6	9.1	11.2
7	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.9	3.3	3.7	4.1	4.5	5.1	5.7	6.5	7.0	8.1	9.6	11.7
8	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.0	2.5	3.0	3.5	3.9	4.4	4.9	5.4	6.1	6.9	7.4	8.6	10.1	12.3
9	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.7	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9
10	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	5.0	5.6	6.2	6.9	7.8	8.4	9.6	11.3	13.6
11	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.7	3.3	4.0	4.6	5.3	5.9	6.6	7.4	8.3	8.9	10.1	11.9	14.2
12	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.2	2.7	3.4	4.1	4.8	5.6	6.3	7.0	7.8	8.9	9.4	10.7	12.6	15.0
13	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.2	5.0	5.9	6.7	7.5	8.3	9.4	10.0	11.4	13.3	15.7
14	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.8	3.5	4.3	5.2	6.2	7.1	8.0	8.9	10.0	10.7	12.1	14.0	16.6
15	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.6	4.4	5.4	6.5	7.5	8.4	9.5	10.6	11.3	12.8	14.8	17.4
16	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.6	4.5	5.5	6.7	7.9	8.9	10.1	11.3	12.0	13.6	15.6	18.4
17	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.6	5.6	6.7	7.9	8.9	10.1	11.3	12.0	13.6	15.6	18.4
18	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.6	5.6	6.7	7.9	8.9	10.1	11.3	12.0	13.6	15.6	18.4
19	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.6	4.7	5.8	7.3	8.8	10.4	11.9	13.6	14.4	16.2	18.5	19.3
20	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.7	5.9	7.5	9.1	10.8	12.6	14.4	15.3	17.1	19.6	22.7
21	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.7	6.0	7.6	9.3	11.2	13.2	15.2	16.2	18.2	20.7	23.9
22	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.6	6.0	7.8	9.5	11.6	13.8	16.0	17.1	19.3	21.9	25.2
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.3	6.0	7.9	9.7	11.9	14.3	16.9	18.0	20.4	23.2	26.6
24	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.8	8.0	9.9	12.2	14.8	17.6	19.0	21.5	24.6	28.1
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.1	5.6	8.0	10.1	12.4	15.2	18.3	19.9	22.7	26.0	29.7
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.0	10.2	12.7	15.6	19.0	20.7	23.8	27.5	31.4
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.9	10.3	12.9	15.9	19.6	21.5	25.1	28.9	33.1
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.7	10.3	13.0	16.3	20.2	22.2	26.1	30.3	35.0
29	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.2	7.5	10.2	13.2	16.6	20.7	22.9	27.1	31.8	36.9	
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.1	7.3	10.1	13.3	16.8	21.1	24.5	28.1	33.4	38.7	
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.3	1.8	2.6	3.6	5.0	7.1	9.8	13.3	17.1	21.5	24.0	29.0	34.8	40.6	
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	6.9	9.6	13.2	17.2	21.9	24.4	29.8	36.1	42.5	
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.8	6.8	9.3	13.0	17.4	22.2	24.9	30.5	37.3	44.5	
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.7	6.7	9.1	12.6	17.3	22.5	25.3	31.1	38.4	46.3	
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	8.9	12.3	17.2	22.8	25.6	31.7	39.4	47.9	
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.4	8.8	12.0	16.9	22.9	26.0	32.3	40.4	49.5	
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.7	3.1	4.3	6.2	8.6	11.8	16.4	22.9	26.2	32.8	41.1	50.9	
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.4	11.5	16.0	22.7	26.3	33.2	41.9	52.3	
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.2	11.3	15.7	22.3	26.2	33.6	42.7	53.5	
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	8.0	11.1	15.4	21.7	25.9	33.9	43.1	54.5	
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.9	15.1	21.2	25.3	33.9	43.9	55.6	
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.6	10.6	14.8	20.8	24.2	33.8	44.4	56.4	
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.1	14.2	20.0	23.7	32.7	44.9	58.1	
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.9	13.9	19.6	23.2	31.9	44.8	58.8	
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.9	6.8	9.6	13.6	19.3	22.8	31.7	44.4	59.4	
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.7	9.4	13.3	19.0	22.4	30.6	43.5	59.6	
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.1	4.6	6.5	9.1	13.0	18.6	22.1	30.1	42.5	59.5	
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.5	6.3	8.9	12.7	18.2	21.6	29.5	41.6	59.1	
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	17.8	21.2	29.1	40.9	58.2	
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	17.8	21.2	29.1	40.9	58.2	

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 37 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.5	12.1	17.4	20.7	28.6	40.1	56.8	
52	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.3	11.8	17.0	20.3	28.1	39.4	55.7	
53	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.0	11.5	16.6	19.8	27.5	38.8	54.7	
54	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	1.9	2.6	3.9	5.5	7.8	11.2	16.2	19.4	27.0	38.3	53.8	
55	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.3	1.8	2.6	3.8	5.4	7.6	11.0	15.8	18.9	26.4	37.6	52.9	
56	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.3	1.8	2.5	3.7	5.2	7.4	10.7	15.4	18.5	25.8	36.9	52.1	
57	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.3	1.8	2.4	3.6	5.1	7.3	10.4	15.1	18.1	25.3	36.2	51.3	
58	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.3	1.7	2.4	3.5	4.9	7.1	10.1	14.7	17.6	24.7	35.5	50.6	
59	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.7	2.3	3.4	4.8	6.9	9.9	14.4	17.3	24.1	34.8	49.7	
60	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.7	2.3	3.3	4.7	6.7	9.6	14.0	16.9	23.6	34.0	48.8	
61	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.7	2.3	3.2	4.6	6.5	9.4	13.6	16.5	23.1	33.3	47.9	
62	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.7	2.2	3.2	4.5	6.3	9.2	13.3	16.0	22.6	32.6	46.9	
63	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.7	2.2	3.1	4.4	6.2	8.9	13.0	15.6	22.1	31.9	46.0	
64	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.2	3.1	4.3	6.0	8.7	12.8	15.3	21.6	31.2	45.1	
65	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.2	3.0	4.2	5.9	8.5	12.5	14.9	21.1	30.6	44.2	
66	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.2	3.0	4.1	5.8	8.3	12.1	14.7	20.6	30.0	43.3	
67	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	4.0	5.6	8.1	11.8	14.3	20.1	29.4	42.4	
68	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	4.0	5.5	7.9	11.5	14.0	19.7	28.7	41.6	
69	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.4	7.7	11.2	13.6	19.3	28.0	40.7	
70	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.3	7.5	11.0	13.3	18.9	27.4	40.0	
71	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.9	3.8	5.2	7.3	10.5	12.6	18.0	26.2	38.3	
72	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.9	3.8	5.1	7.1	10.3	12.3	17.6	25.8	37.4	
73	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.9	3.8	5.1	7.1	10.3	12.3	17.6	25.8	37.4	
74	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9	3.8	5.0	6.9	9.9	11.8	16.7	24.6	35.9	
75	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.9	3.7	5.0	6.8	9.7	11.6	16.4	24.1	35.2	
76	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.7	5.0	6.7	9.6	11.4	16.0	23.5	34.6	
77	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.7	5.0	6.7	9.4	11.2	15.7	22.9	33.8	
78	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.9	6.6	9.3	11.0	15.4	22.4	33.1	
79	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	3.0	3.7	4.9	6.6	9.2	10.9	15.1	22.0	32.4	
80	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	3.0	3.8	4.9	6.6	9.0	10.7	14.9	21.6	31.6	
81	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0	3.8	4.9	6.6	9.0	10.6	14.6	21.1	30.9	
82	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0	3.8	4.9	6.5	8.9	10.5	14.4	20.8	30.3	
83	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0	3.9	4.9	6.5	8.9	10.4	14.3	20.4	29.7	
84	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	3.1	3.9	4.9	6.5	8.9	10.4	14.3	20.4	29.7	
85	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	3.1	4.0	5.0	6.5	8.9	10.3	14.1	20.1	29.2	
86	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.8	10.4	13.9	19.8	28.6
87	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.8	10.3	13.7	19.5	28.1
88	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.8	10.3	13.7	19.5	28.1
89	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.2	6.6	8.8	10.2	13.6	19.0	27.2
90	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.3	6.8	8.8	10.2	13.6	19.0	27.2
91	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.2	13.6	18.6	26.5
92	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.8	10.2	13.5	18.5	26.2
93	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.2	13.4	18.5	25.9
94	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.2	13.4	18.5	25.6
95	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.4	18.4	25.3
96	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.4	18.3	25.2
97	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	18.2	25.2
98	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	18.2	25.1
99	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	18.2	25.0
100	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.2	24.9

T E M P F R A T U R E , D E G R E E S F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 30 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.1	3.5	4.0	4.7	5.1	5.9	7.3	9.1	
2	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.6	9.5	
3	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.0	1.2	1.5	1.8	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.6	8.0	9.9	
4	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.0	1.2	1.5	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.3	4.9	5.6	6.0	7.0	8.4	10.4	
5	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.3	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	5.9	6.4	7.4	8.9	10.9	
6	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.3	6.8	7.8	9.3	11.4	
7	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.3	1.6	2.0	2.5	2.9	3.4	3.8	4.2	4.7	5.2	5.9	6.7	7.2	8.3	9.8	12.0	
8	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.3	1.7	2.1	2.5	3.1	3.6	4.0	4.5	5.0	5.6	6.3	7.1	7.6	8.8	10.4	12.6	
9	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8	5.4	5.9	6.7	7.4	8.1	9.3	10.9	13.2	
10	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8	5.4	5.9	6.7	7.4	8.1	9.3	10.9	13.2	
11	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8	5.4	5.9	6.7	7.4	8.1	9.3	10.9	13.2	
12	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.6	2.1	2.7	3.4	4.2	4.9	5.8	6.5	7.2	8.1	9.1	9.7	11.0	12.9	15.3	
13	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.1	2.8	3.5	4.3	5.1	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.1	
14	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.1	2.8	3.5	4.3	5.1	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.1	
15	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.1	2.8	3.5	4.3	5.1	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.1	
16	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.5	2.0	2.8	3.6	4.4	5.4	6.4	7.4	8.4	9.4	10.3	11.0	12.4	14.4	17.0	
17	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.4	1.9	2.7	3.6	4.5	5.5	6.5	7.5	8.5	9.4	10.4	11.0	12.4	14.4	17.0	
18	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.0	1.4	1.9	2.6	3.6	4.6	5.6	6.7	7.7	8.7	10.2	11.6	13.2	14.8	17.0	19.8	
19	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.0	1.4	1.9	2.6	3.6	4.6	5.6	6.7	7.7	8.7	10.2	11.6	13.2	14.8	17.0	19.8	
20	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.0	1.4	1.9	2.6	3.5	4.4	5.4	6.4	7.4	8.4	9.9	10.6	12.3	14.0	15.7	18.0	20.9
21	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.0	1.2	1.7	2.4	3.3	4.3	5.3	6.3	7.3	8.3	9.2	10.3	11.0	12.4	14.4	17.0	22.1
22	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.7	2.3	3.2	4.2	5.2	6.2	7.2	8.2	9.2	10.3	11.0	12.4	14.4	17.0	22.1
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.7	2.3	3.2	4.2	5.2	6.2	7.2	8.2	9.2	10.3	11.0	12.4	14.4	17.0	22.1
24	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.7	2.3	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.3	11.0	12.4	14.4	17.0	22.1
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	2.1	2.9	3.9	4.9	5.9	6.9	7.9	9.1	10.1	11.0	12.4	14.4	17.0	22.1

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 30 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.3	11.7	16.9	20.2	28.0	39.3	55.5	
52	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.0	11.5	16.5	19.8	27.4	38.7	54.5	
53	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.9	38.1	53.6	
54	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.9	26.3	37.5	52.7	
55	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.4	18.4	25.8	36.8	51.8	
56	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.3	1.8	2.4	3.6	5.1	7.2	10.4	15.0	18.0	25.2	36.1	51.1	
57	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.3	1.7	2.4	3.5	4.9	7.1	10.1	14.7	17.6	24.6	35.4	50.4	
58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.3	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.2	24.1	34.6	49.5	
59	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.3	1.7	2.3	3.3	4.7	6.7	9.6	14.0	16.8	23.5	33.9	48.6	
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.3	3.2	4.6	6.5	9.4	13.6	16.4	23.0	33.2	47.7	
61	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.2	3.2	4.4	6.3	9.2	13.3	16.0	22.5	32.5	46.8	
62	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.3	6.1	8.9	13.0	15.6	22.0	31.8	45.8	
63	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.2	3.1	4.2	6.0	8.7	12.7	15.2	21.6	31.1	44.9	
64	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	3.0	4.2	5.9	8.4	12.4	14.9	21.0	30.5	44.0	
65	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.0	5.7	8.2	12.1	14.6	20.5	29.8	43.1	
66	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	4.0	5.6	8.0	11.8	14.2	20.0	29.3	42.2	
67	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	4.0	5.5	7.8	11.5	13.9	19.6	28.6	41.4	
68	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.4	7.7	11.2	13.6	19.2	27.9	40.5	
69	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	3.8	5.3	7.5	10.9	13.2	18.8	27.2	39.8	
70	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.9	3.8	5.2	7.4	10.7	12.9	18.4	26.6	39.0	
71	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.8	5.1	7.2	10.4	12.6	17.9	26.1	38.1	
72	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.8	3.8	5.1	7.1	10.2	12.3	17.5	25.6	37.2	
73	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.8	5.0	7.0	10.0	12.0	17.0	25.1	36.4	
74	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.7	5.0	6.9	9.8	11.8	16.6	24.5	35.7	
75	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.7	5.0	6.8	9.6	11.5	16.3	24.0	35.0	
76	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.7	4.9	6.7	9.5	11.3	15.9	23.4	34.4	
77	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.7	4.9	6.6	9.4	11.1	15.6	22.8	33.7	
78	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.9	6.6	9.2	11.0	15.3	22.3	32.9	
79	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.9	6.6	9.1	10.8	15.0	21.8	32.2	
80	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.7	4.9	6.6	9.0	10.7	14.8	21.4	31.5
81	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.9	6.5	8.9	10.5	14.5	21.0	30.8
82	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.5	8.9	10.4	14.3	20.6	30.1
83	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.5	8.9	10.3	14.2	20.3	29.5
84	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.5	8.8	10.3	14.0	19.9	29.0
85	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.5	8.8	10.3	13.8	19.6	28.4
86	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.7	10.2	13.6	19.4	27.9
87	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.7	10.2	13.5	19.1	27.5
88	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.7	10.1	13.5	18.9	27.0
89	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.3	6.7	8.7	10.1	13.5	18.7	26.7
90	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	10.1	13.4	18.5	26.3
91	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.1	13.4	18.4	26.0
92	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.8	10.1	13.3	18.3	25.7
93	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.1	13.3	18.3	25.4
94	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.2	13.3	18.2	25.1
95	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.3	18.1	25.0
96	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	18.1	24.9
97	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.4	18.0	24.9
98	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	18.0	24.8
99	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1											

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 39 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.6	2.9
2	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.8	3.1
3	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3
4	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.6	1.9	2.2	2.6	2.9	3.2	3.6
5	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.2	2.7	3.1	3.4	3.8
6	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.9	3.3	3.7	4.1
7	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.0	2.5	3.0	3.5	3.9	4.4
8	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.1	3.6	4.1	4.7
9	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	5.0
10	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.7	3.3	3.9	4.6	5.3
11	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.1	4.8	5.6
12	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.1	4.8	5.6
13	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.2	5.0	5.9
14	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.8	3.5	4.2	5.0	5.9
15	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	2.0	2.7	3.6	4.3	5.1	6.0
16	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.7	3.6	4.3	5.1	6.0
17	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.6	3.6	4.6	5.7	7.1
18	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.8	2.5	3.5	4.6	5.8	7.3
19	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.8	2.5	3.4	4.6	5.9	7.4
20	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.2	1.7	2.4	3.3	4.6	5.9	7.6
21	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.2	1.7	2.3	3.2	4.5	6.0	7.7
22	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.2	1.6	2.3	3.2	4.3	5.9	7.8
23	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.6	2.3	3.1	4.2	5.9	7.9
24	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.1	3.0	4.1	5.7	7.9
25	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.0	1.4	2.0	2.9	4.0	5.5	7.9
26	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.0	1.4	2.0	2.8	3.8	5.3	7.5
27	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.0	1.4	2.0	2.8	3.8	5.3	7.5
28	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.9	1.3	1.9	2.7	3.8	5.1	7.3
29	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.9	1.3	1.8	2.6	3.7	5.0	7.1
30	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.9	1.2	1.8	2.5	3.6	4.9	7.0
31	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.9	1.2	1.7	2.5	3.5	4.8	6.8
32	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.8	1.2	1.7	2.4	3.4	4.7	6.7
33	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.8	1.1	1.6	2.3	3.2	4.4	6.4
34	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.8	1.1	1.6	2.3	3.2	4.4	6.4
35	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.7	1.1	1.5	2.2	3.1	4.3	6.2
36	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.7	1.0	1.5	2.1	3.0	4.2	6.1
37	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.7	1.0	1.4	2.0	2.9	4.1	5.9
38	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.7	0.9	1.3	1.9	2.7	3.8	5.6
39	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.3	1.9	2.6	3.7	5.4
40	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.3	1.9	2.6	3.7	5.4
41	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.2	1.8	2.6	3.6	5.3
42	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.2	1.8	2.5	3.5	5.1
43	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.2	1.7	2.4	3.4	5.0
44	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.6	2.4	3.3	4.9
45	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.6	2.3	3.2	4.7
46	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.5	2.2	3.1	4.6
47	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.5	2.1	3.0	4.5
48	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.6	0.7	1.0	1.4	2.0	2.9	4.2
49	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.4	2.0	2.8	4.1
50	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.4	2.0	2.8	4.1

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 39 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																									
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
51	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.0	11.4	16.5	19.7	27.4	38.5	54.4		
52	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.8	38.0	53.4		
53	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.8	26.3	37.4	52.5		
54	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.3	18.4	25.7	36.7	51.6		
55	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.3	1.7	2.4	3.6	5.1	7.2	10.3	15.0	18.0	25.1	36.0	50.9		
56	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.3	1.7	2.4	3.5	4.9	7.0	10.1	14.7	17.5	24.6	35.3	50.2		
57	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.3	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.2	24.0	34.5	49.3		
58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.3	1.7	2.3	3.3	4.7	6.7	9.6	13.9	16.8	23.5	33.8	48.4		
59	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.4	13.6	16.4	22.9	33.1	47.5		
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.4	6.3	9.1	13.2	16.0	22.4	32.4	46.6		
61	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.3	6.1	8.9	12.9	15.5	22.0	31.7	45.7		
62	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.7	15.2	21.5	31.0	44.8		
63	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.4	14.8	21.0	30.3	43.8		
64	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.0	5.7	8.2	12.1	14.5	20.4	29.7	42.9		
65	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.0	5.6	8.0	11.8	14.2	19.9	29.1	42.1		
66	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.5	7.8	11.5	13.9	19.5	28.5	41.2		
67	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.4	7.6	11.2	13.5	19.1	27.8	40.4		
68	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	3.8	5.3	7.5	10.9	13.2	18.7	27.1	39.6		
69	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.8	3.8	5.2	7.3	10.6	12.8	18.3	26.5	38.8		
70	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.8	5.1	7.2	10.4	12.5	17.9	26.0	38.0		
71	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.8	5.0	7.1	10.2	12.2	17.4	25.5	37.1		
72	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.8	3.7	5.0	6.9	10.0	12.0	17.0	25.0	36.2		
73	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.7	4.9	6.8	9.8	11.7	16.6	24.4	35.5		
74	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.7	4.9	6.7	9.6	11.5	16.2	23.9	34.8		
75	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.7	4.9	6.7	9.4	11.3	15.9	23.3	34.2		
76	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.7	4.9	6.6	9.3	11.1	15.5	22.7	33.5		
77	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.7	4.8	6.5	9.2	10.9	15.2	22.2	32.8		
78	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.8	6.5	9.0	10.7	14.9	21.7	32.1		
79	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.7	4.8	6.5	8.8	10.5	14.5	20.9	30.6		
80	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.8	6.4	8.8	10.3	14.2	20.5	29.9	
81	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.4	8.8	10.2	14.1	20.1	29.3	
82	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.4	8.7	10.2	13.9	19.8	28.8	
83	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.4	8.7	10.2	13.7	19.5	28.3	
84	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.5	3.2	4.0	5.0	6.4	8.6	10.1	13.5	19.0	27.3	
85	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.6	10.0	13.4	18.8	26.9	
86	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.6	10.0	13.4	18.8	26.9	
87	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.6	10.0	13.4	18.8	26.9	
88	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3	4.1	5.2	6.7	8.6	10.0	13.3	18.3	26.1	
89	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.2	6.7	8.6	10.0	13.3	18.3	26.1	
90	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	10.0	13.3	18.2	25.8	
91	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.7	10.0	13.2	18.2	25.5	
92	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.7	10.0	13.2	18.2	25.5	
93	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	13.2	18.1	25.0	
94	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.2	18.0	24.8	
95	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.9	24.7	
96	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.9	24.7	
97	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.4	17.9	24.6	
98	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.9	24.5	
99	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	17.9	24.4	
100	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.7	4.6	5.8	7.4	9.6	10.9				

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 40 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	T	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.2	7.6	9.4
2	E	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.3	2.6	2.8	3.2	3.5	4.0	4.5	5.2	5.6	6.6	7.9	9.9
3	M	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.4	3.8	4.2	4.8	5.5	6.0	6.9	8.4	10.3
4	P	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.6	3.0	3.3	3.7	4.1	4.5	5.1	5.9	6.3	7.3	8.8	10.8
5	R	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.4	2.8	3.1	3.5	3.9	4.3	4.8	5.5	6.3	6.7	7.6	9.3	11.3
6	A	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.6	2.0	2.4	2.9	3.3	3.7	4.2	4.6	5.2	5.8	6.7	7.1	8.2	9.8	11.9
7	Y	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.2	7.1	7.6	8.7	10.3	12.5
8		0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.1	3.7	4.2	4.8	5.3	5.9	6.6	7.5	8.0	9.2	10.9	13.1
9	T	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.8	4.3	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8
10	E	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.3	4.0	4.7	5.4	6.1	6.7	7.5	8.5	9.1	10.3	12.1	14.5
11	M	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.1	4.9	5.7	6.4	7.2	8.0	9.1	9.7	11.0	12.8	15.2
12	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.7	3.4	4.2	5.1	6.0	6.8	7.7	8.5	9.6	10.3	11.6	13.5	16.0
13	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.7	3.5	4.3	5.2	6.3	7.2	8.1	9.1	10.3	10.9	12.3	14.3	16.9
14	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.5	4.4	5.4	6.5	7.6	8.6	9.7	10.9	11.6	13.1	15.1	17.8
15	Y	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.5	5.5	6.8	8.0	9.1	10.3	11.6	12.3	13.9	16.0	19.7
16		0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.5	5.6	7.0	8.3	9.6	10.9	12.4	13.1	14.7	16.9	19.8
17	T	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.4	4.3	5.4	6.6	8.0	9.5	10.5	12.2	13.9	14.8	16.6	18.9
18	E	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.3	4.3	5.4	6.6	8.0	9.5	10.5	12.2	13.9	14.8	16.6	18.9
19	M	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.3	5.4	6.6	8.0	9.5	10.5	12.2	13.9	14.8	16.6	18.9
20	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.3	5.4	6.6	8.0	9.5	10.5	12.2	13.9	14.8	16.6	18.9
21	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.4	5.4	6.6	8.0	9.5	10.5	12.2	13.9	14.8	16.6	18.9
22	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.2	3.1	4.3	5.4	6.6	8.0	9.5	10.5	12.2	13.9	14.8	16.6	18.9
23	Y	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.1	5.1	6.3	7.6	8.9	10.5	12.4	13.9	15.4	17.9	20.8
24		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.0	5.0	6.2	7.5	8.9	10.5	12.4	13.9	15.4	17.9	20.8
25	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	3.9	5.0	6.2	7.5	8.9	10.5	12.4	13.9	15.4	17.9	20.8
26	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	4.9	6.1	7.4	8.9	10.5	12.4	13.9	15.4	17.9	20.8
27	M	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.0	6.2	7.5	8.9	10.5	12.4	13.9	15.4	17.9	20.8
28	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.0	6.2	7.5	8.9	10.5	12.4	13.9	15.4	17.9	20.8	23.5
29	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	6.2	7.5	8.9	10.5	12.4	13.9	15.4	17.9	20.8	23.5
30	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.1	7.4	8.9	10.5	12.4	13.9	15.4	17.9	20.8	23.5
31	Y	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.7	6.0	7.3	8.8	10.5	12.4	13.9	15.4	17.9	20.8	23.5
32		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.4	5.6	6.8	8.2	9.9	11.6	13.4	15.2	17.0	19.8	23.5
33	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.3	5.4	6.5	7.8	9.2	10.9	12.7	14.5	16.3	19.0	22.7
34	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.3	5.4	6.5	7.8	9.2	10.9	12.7	14.5	16.3	19.0	22.7
35	M	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.2	5.3	6.4	7.7	9.0	10.9	12.7	14.5	16.3	19.0	22.7
36	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.0	5.0	6.1	7.4	8.8	10.5	12.4	13.9	15.4	17.9	20.8
37	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
38	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
39	Y	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
40		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
41	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
42	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
43	M	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
44	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
45	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
46	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
47	Y	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
48		0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
49	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9
50	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.7	8.0	9.5	11.1	12.9	14.7	16.5	19.3	22.9

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 40 PERCENT RELATIVE HUMIDITY

BAND CENTER FREQUENCY, MZ																									
50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000		
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.8	37.8	53.3	
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.8	26.2	37.3	52.4	
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.3	18.4	25.7	36.6	51.5	
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.6	5.1	7.2	10.3	15.0	17.9	25.1	35.9	50.7	
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.3	1.7	2.4	3.5	4.9	7.0	10.1	14.6	17.5	24.5	35.2	50.0	
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.1	24.0	34.5	49.2	
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.3	4.7	6.7	9.6	13.9	16.7	23.4	33.7	48.3	
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.4	13.6	16.4	22.9	33.0	47.4	
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.1	13.2	15.9	22.4	32.3	46.5	
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.3	6.1	8.9	12.9	15.5	21.9	31.6	45.6	
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.6	15.1	21.5	30.9	44.6	
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.3	43.7	
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.1	5.7	8.2	12.0	14.5	20.4	29.6	42.8	
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.0	5.6	8.0	11.7	14.2	19.9	29.0	41.9	
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	3.9	5.4	7.8	11.4	13.8	19.4	28.4	41.1	
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.8	3.9	5.3	7.6	11.1	13.5	19.0	27.7	40.2	
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.8	1.0	1.3	1.6	2.1	2.8	3.8	5.2	7.4	10.6	13.1	18.7	27.0	39.4	
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.8	1.0	1.3	1.6	2.1	2.8	3.8	5.2	7.3	10.6	12.8	18.2	26.4	38.7	
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.8	1.0	1.3	1.6	2.1	2.8	3.7	5.1	7.1	10.4	12.5	17.8	25.9	37.8	
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.7	5.0	10.1	12.2	17.4	25.4	37.0	
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.7	4.9	9.9	11.9	16.9	24.9	36.1	
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.8	3.7	4.9	9.7	11.7	16.5	24.3	35.4	
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.7	4.9	9.5	11.4	16.1	23.8	34.7	
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.9	9.4	11.2	15.8	23.2	34.0	
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.8	9.2	11.0	15.5	22.7	33.4	
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.8	9.1	10.8	15.2	22.1	32.7	
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.8	9.0	10.7	14.9	21.6	31.9	
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.8	8.9	10.5	14.6	21.2	31.2		
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.8	8.8	10.4	14.4	20.8	30.5		
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.8	4.8	8.7	10.3	14.2	20.4	29.8		
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	8.7	10.2	14.0	20.0	29.2	
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	8.6	10.1	13.8	19.7	28.7	
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	8.6	10.1	13.6	19.4	28.1	
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	8.6	10.1	13.4	19.1	27.6	
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.0	4.0	5.0	8.6	10.0	13.3	18.9	27.1	
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	8.5	9.9	13.3	18.7	26.7	
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	8.6	9.9	13.3	18.4	26.3	
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	8.6	9.9	13.2	18.2	26.0	
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.2	8.7	9.9	13.2	18.1	25.7	
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	8.8	10.0	13.1	18.0	25.1	
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.3	5.4	8.9	10.0	13.1	17.9	24.8	
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	8.9	10.0	13.1	17.9	24.6	
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.8	
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.1	9.1	10.4	13.2	17.7	
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.7	
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.2	9.3	10.6	13.5	17.8	
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.3	10.6	13.5	17.8	
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.8	
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	17.9	
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.0	

T E M P E R A T U R E • D E G R E E S • G U I D E • F A H R E N H E I T

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 42 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	T	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.5	5.1	5.6	6.5	7.9	9.8
2	E	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.4	3.7	4.2	4.8	5.5	5.9	6.9	8.3	10.2
3	M	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	2.9	3.2	3.6	4.0	4.5	5.1	5.8	6.3	7.3	8.7	10.7
4	P	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.6	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.6	7.7	9.2	11.2
5	E	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.0	2.4	2.9	3.3	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.1	9.7	11.8
6	R	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.5	3.9	4.4	4.9	5.5	6.1	7.0	7.5	8.6	10.2	12.4
7	A	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.5	3.1	3.7	4.2	4.7	5.3	5.8	6.5	7.4	8.0	9.1	10.8	13.0
8	T	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.6	3.2	3.8	4.4	5.0	5.6	6.2	7.0	7.9	8.5	9.7	11.4	13.7
9	U	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.3	3.9	4.6	5.3	6.0	6.7	7.4	8.4	9.0	10.2	12.0	14.4
10	R	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.3	4.1	4.8	5.7	6.4	7.1	7.9	9.0	9.6	10.9	12.7	15.1
11	E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.2	5.0	6.0	6.8	7.6	8.5	9.5	10.2	11.5	13.4	15.9
12	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.7	3.5	4.3	5.2	6.2	7.2	8.1	9.0	10.2	10.8	12.2	14.2	16.7
13	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.4	5.3	6.5	7.6	8.5	9.6	10.8	11.5	13.0	15.0	17.6
14	R	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.4	5.4	6.7	7.9	9.0	10.3	11.5	12.2	13.8	15.9	18.6
15	A	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.5	4.5	5.6	6.9	8.2	9.6	10.8	12.3	13.0	14.6	16.8	19.6
16	T	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.5	5.7	7.1	8.5	10.0	11.5	13.1	13.8	15.5	17.8	20.7
17	U	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.6	5.7	7.2	8.8	10.4	12.1	13.8	14.7	16.5	18.5	21.8
18	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.5	5.8	7.4	9.0	10.8	12.7	14.6	15.6	17.5	19.9	23.1
19	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.3	5.5	7.5	9.2	11.2	13.3	15.4	16.5	18.6	21.1	24.4
20	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.6	7.6	9.4	11.5	13.8	16.2	17.4	19.7	22.4	25.7
21	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.8	7.7	9.6	11.8	14.3	17.0	18.3	20.8	23.7	27.2
22	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.7	12.0	14.7	17.7	19.2	21.9	25.1	28.7
23	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.7	9.9	12.3	15.1	18.4	20.0	23.1	26.6	30.4
24	T	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.7	6.3	8.6	10.8	13.3	16.3	19.5	21.5	24.1	29.6	34.0
25	U	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.7	6.3	8.6	10.8	13.3	16.3	19.5	21.5	24.1	29.6	34.0
26	R	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.7	6.3	8.6	10.8	13.3	16.3	19.5	21.5	24.1	29.6	34.0
27	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	5.0	7.0	9.8	12.9	16.3	20.4	22.7	27.3	32.4	37.6	43.4
28	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	6.9	9.5	12.9	16.5	20.8	23.2	28.1	33.8	39.5	45.4
29	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.7	9.2	12.8	16.7	21.2	23.7	28.9	35.0	41.4	47.4
30	R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.6	6.6	9.0	12.5	16.8	21.5	24.1	29.6	36.2	43.3	50.9
31	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.4	8.8	12.1	16.8	21.8	24.5	30.2	37.3	45.0	52.9
32	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.3	8.4	11.6	16.3	22.0	24.9	31.8	39.2	48.2	57.4
33	U	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.1	7.2	9.9	13.9	18.4	23.7	29.4	36.3	44.4	53.0
34	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	6.0	8.3	11.3	15.8	21.1	25.4	31.8	40.0	49.6	59.9
35	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	8.1	11.1	15.4	21.9	25.4	32.2	40.7	50.9	62.0
36	P	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.7	14.8	20.8	24.9	32.8	42.0	53.0	65.0
37	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.7	14.8	20.8	24.9	32.8	42.0	53.0	65.0
38	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.3	7.5	10.4	14.5	20.4	24.3	32.8	42.6	54.0	66.4
39	A	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.2	7.3	10.2	14.2	19.9	23.7	32.6	43.1	54.9	67.3
40	T	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	5.0	7.1	9.9	13.9	19.5	23.2	32.0	43.4	55.7	68.6
41	U	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.7	2.4	3.3	4.9	6.7	9.7	13.6	19.2	22.7	31.2	43.4	56.4	70.0
42	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.8	6.5	9.4	13.3	18.8	22.2	30.5	43.1	57.1	71.5
43	A	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.5	9.2	13.0	18.5	21.8	29.9	42.5	57.5	72.5
44	T	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.5	6.4	8.9	12.7	18.1	21.5	29.3	41.6	57.6	73.6
45	U	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.7	12.4	17.7	21.1	28.8	40.6	57.3	74.3
46	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.5	12.1	17.3	20.6	28.3	39.8	56.7	74.3
47	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.3	11.8	16.9	20.2	27.8	39.0	55.5	73.2
48	P	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.1	11.5	16.5	19.7	27.3	38.3	54.2	72.2
49	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.8	37.7	53.2	71.2
50	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.1	18.8	26.2	37.1	52.2	70.2

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 43 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ													10000										
	50	63	80	100	125	160	200	250	315	400	500	630	800		1000	1250	1600	2000	2500	3150	4000	5000	6300	8000
1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.6	8.0	9.9
2	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.5	3.8	4.3	4.9	5.6	6.0	7.0	8.4	10.4
3	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.4	8.9	10.9
4	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	1.9	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.3	6.8	7.9	9.4	11.4
5	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.9	3.4	3.8	4.3	4.7	5.2	5.9	6.7	7.2	8.3	9.9	12.6
6	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.5	4.0	4.6	5.0	5.6	6.3	7.2	7.7	8.8	10.4	12.6
7	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.5	3.1	3.7	4.3	4.9	5.4	6.0	6.7	7.6	8.2	9.3	11.0	13.2
8	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.2	3.9	4.5	5.2	5.8	6.4	7.2	8.1	8.7	9.9	11.6	13.9
9	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.3	4.0	4.7	5.5	6.2	6.8	7.6	8.6	9.7	11.1	13.0	15.4
10	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.1	4.9	5.8	6.5	7.3	8.1	9.2	10.4	11.8	13.7	16.2
11	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.7	3.4	4.2	5.1	6.1	6.9	7.8	8.7	9.8	10.4	11.8	13.7	16.2
12	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.5	4.3	5.2	6.3	7.3	8.3	9.3	10.4	11.1	12.5	14.5	17.1
13	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.4	5.4	6.6	7.7	8.7	9.9	11.1	11.8	13.3	15.3	18.0
14	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.4	5.5	6.8	8.0	9.2	10.5	11.8	12.6	14.1	16.2	19.0
15	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.5	5.6	7.0	8.3	9.7	11.1	12.6	13.4	15.0	17.2	20.1
16	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.5	5.7	7.1	8.6	10.2	11.7	13.4	14.2	15.9	18.2	21.2
17	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.5	5.7	7.3	8.9	10.6	12.4	14.2	15.1	16.9	19.3	22.4
18	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	5.8	7.4	9.1	10.9	13.0	14.9	16.0	17.9	20.4	23.6
19	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.8	7.5	9.3	11.3	13.5	15.8	16.9	19.1	21.6	24.9
20	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.2	5.8	7.6	9.5	11.6	14.0	16.6	17.8	20.2	22.9	26.4
21	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.6	11.8	14.5	17.3	18.7	21.3	24.3	27.9
22	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.7	9.8	12.1	14.9	18.0	19.6	22.4	25.8	29.5
23	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	3.9	5.4	7.6	9.9	12.3	15.2	18.6	20.3	23.6	27.2	31.1
24	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.2	7.5	9.9	12.5	15.5	19.2	21.1	24.7	28.6	33.0
25	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	7.3	9.8	12.6	15.8	19.7	21.7	25.7	30.1	34.8
26	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	7.1	9.8	12.8	16.1	20.1	22.4	26.7	31.6	36.6
27	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	6.9	9.6	12.8	16.3	20.5	22.9	27.6	33.0	38.4
28	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.7	9.3	12.5	16.5	20.9	23.4	28.4	34.3	40.3
29	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.6	9.1	12.6	16.7	21.3	23.8	29.1	35.5	42.3
30	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	8.8	12.2	16.7	21.6	24.2	29.8	36.6	44.1
31	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.4	6.3	8.6	11.9	16.6	21.8	24.6	30.4	37.7	45.7
32	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.0	4.3	6.2	8.5	11.6	16.3	22.0	24.9	30.9	38.6	47.3
33	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.1	6.0	8.3	11.4	15.9	22.0	25.1	31.4	39.4	48.7
34	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.8	8.1	11.1	15.5	21.9	25.2	31.8	40.2	50.1
35	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.9	15.1	21.5	25.2	32.2	40.9	51.3
36	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.7	14.8	21.0	24.9	32.5	41.5	52.3
37	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.5	10.4	14.5	20.4	24.4	32.6	42.1	53.3
38	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.2	1.8	2.5	3.6	5.2	7.3	10.2	14.2	20.0	23.7	32.5	42.6	54.2
39	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.5	3.5	5.1	7.1	10.0	14.0	20.0	23.2	32.1	43.0	55.0
40	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.7	2.4	3.4	4.9	6.9	9.7	13.7	19.2	22.7	31.4	43.0	56.5
41	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.3	3.3	4.8	6.7	9.5	13.4	18.8	22.3	30.6	43.0	56.5
42	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.6	9.2	13.0	18.5	21.8	29.9	42.5	57.0
43	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.2	3.1	4.5	6.4	9.0	12.7	18.1	21.5	29.3	41.7	57.0
44	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.7	12.4	17.7	21.1	28.8	40.6	57.1	71.1
45	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.9	8.3	11.8	17.0	20.2	27.8	39.0	55.6	71.1
46	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.1	11.5	16.5	19.8	27.3	38.3	54.2	71.1
47	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.1	11.5	16.5	19.8	27.3	38.3	54.2	71.1
48	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.9	5.5	7.9	11.2	16.2	19.3	26.8	37.7	53.2	71.1
49	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.8	18.9	26.7	37.1	52.2	71.1
50	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.4	10.7	15.4	18.4	25.7	36.5	51.3	71.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE
BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 43 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600		2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.6	5.1	7.2	10.4	15.0	18.0	25.1	35.8	50.4	
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.0	7.0	10.1	14.6	17.5	24.5	35.1	49.6	
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.1	24.0	34.4	48.9	
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3	4.7	6.7	9.6	14.0	16.7	23.4	33.7	48.1	
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.3	13.6	16.4	22.9	33.0	47.2	
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.1	13.2	16.0	22.4	32.2	46.3	
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.1	4.3	6.1	8.9	12.9	15.5	21.9	31.5	45.4	
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.6	15.1	21.4	30.8	44.5	
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.2	43.6	
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.7	8.2	12.0	14.4	20.4	29.5	42.6	
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.5	8.0	11.7	14.1	19.9	28.9	41.7	
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.8	3.9	5.4	7.8	11.4	13.8	19.4	28.3	40.9	
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.8	3.8	5.3	7.6	11.1	13.5	18.9	27.7	40.0	
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.8	3.8	5.2	7.4	10.8	13.1	18.5	27.0	39.2	
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.8	3.7	5.1	7.2	10.5	12.8	18.2	26.3	38.4	
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.8	3.7	5.0	7.1	10.3	12.4	17.7	25.7	37.7	
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	5.0	7.0	10.1	12.1	17.3	25.2	36.8	
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.9	6.8	9.8	11.8	16.9	24.7	35.9	
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.8	6.7	9.6	11.6	16.4	24.2	35.1	
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.6	4.8	6.6	9.4	11.3	16.0	23.6	34.4	
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.6	4.8	6.5	9.3	11.1	15.7	23.1	33.7	
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.6	4.8	6.4	9.1	10.9	15.3	22.5	33.1	
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.6	4.7	6.4	9.0	10.7	15.0	22.0	32.4	
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.7	6.3	8.9	10.5	14.7	21.5	31.7	
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.7	6.3	8.7	10.4	14.5	21.0	31.0	
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.7	6.3	8.6	10.3	14.2	20.6	30.3	
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.7	6.3	8.5	10.1	14.0	20.2	29.6	
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.2	8.5	10.0	13.8	19.8	28.9	
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.2	8.5	9.9	13.6	19.5	28.3	
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.7	6.2	8.5	9.8	13.4	19.1	27.8
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	6.2	8.4	9.9	13.2	18.9	27.3
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.4	9.8	13.1	18.6	26.8
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.2	8.3	9.7	13.0	18.4	26.4
84	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.3	9.7	13.0	18.1	26.0	
85	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.7	13.0	17.9	25.6	
86	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.7	12.9	17.7	25.3	
87	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.7	12.8	17.6	25.0	
88	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.7	12.8	17.6	24.7	
89	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.7	12.8	17.6	24.4	
90	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.8	17.5	24.1	
91	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.0	12.8	17.4	24.0	
92	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.1	12.8	17.3	24.0	
93	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.2	12.9	17.3	24.0	
94	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.3	23.9	
95	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.3	23.7	
96	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.4	23.7	
97	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.5	23.6	
98	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.7	
99	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	17.9	23.7	
100	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7	

T F M P E A T U R E • D E G R E E S F A H R E M N H E I T

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 44 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.0	7.1	10.1	14.7	17.6	24.6	35.1	49.5
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.2	24.0	34.4	48.8
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3	4.7	6.7	9.6	14.0	16.7	23.5	33.7	48.1
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2	4.6	6.5	9.3	13.6	16.4	22.9	33.0	47.2
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.1	13.3	16.0	22.4	32.3	46.3
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.1	4.3	6.2	8.9	12.9	15.6	21.9	31.6	45.4
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.6	15.2	21.4	30.9	44.5
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.2	43.6
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.7	8.2	12.0	14.4	20.4	29.5	42.6
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.1	2.9	3.9	5.5	8.0	11.7	14.1	19.9	28.9	41.7
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.8	3.9	5.4	7.8	11.4	13.8	19.4	28.3	40.9
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.8	3.8	5.3	7.6	11.1	13.5	18.9	27.7	40.0
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.8	3.8	5.2	7.4	10.8	13.1	18.5	27.0	39.2
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.8	3.7	5.1	7.2	10.5	12.8	18.2	26.3	38.4
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.7	3.6	5.0	7.1	10.3	12.4	17.7	25.7	37.6
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.9	6.9	10.1	12.1	17.3	25.2	36.8
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.9	6.8	9.8	11.8	16.9	24.7	35.9
68	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.8	6.7	9.6	11.6	16.4	24.2	35.1
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7	3.6	4.7	6.6	9.4	11.3	16.0	23.6	34.3
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.5	4.7	6.5	9.3	11.1	15.7	23.1	33.6
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.7	6.4	9.1	10.9	15.3	22.5	33.0
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.7	6.3	9.0	10.7	15.0	22.0	32.4
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.7	6.3	8.8	10.5	14.7	21.4	31.7
74	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.6	6.3	8.7	10.4	14.4	21.0	31.0
75	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.6	6.3	8.6	10.2	14.2	20.6	30.2
76	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	6.2	8.5	10.1	13.9	20.2	29.5
77	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	6.2	8.4	9.9	13.7	19.8	28.9
78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.6	6.2	8.4	9.8	13.5	19.4	28.3
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.2	8.4	9.8	13.4	19.4	28.3
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.8	4.7	6.2	8.4	9.8	13.2	18.8	27.2
81	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	6.2	8.3	9.7	13.0	18.5	26.7
82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.8	6.2	8.3	9.7	12.9	18.3	26.3
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.2	8.3	9.6	12.9	18.1	25.9
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.6	12.9	17.8	25.5
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.3	9.6	12.8	17.6	25.1
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.7	17.5	24.9
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.7	8.6	9.7	12.7	17.5	24.6
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.2	4.1	5.2	6.7	8.6	9.7	12.7	17.4	24.3
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.2	4.1	5.2	6.7	8.6	9.7	12.7	17.4	24.3
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.7	17.3	23.9
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.0	12.7	17.2	23.8
92	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	12.8	17.2	23.8
93	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.2	12.9	17.2	23.7
94	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.2	23.6
95	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.2	23.5
96	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.3	23.5
97	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.5	23.5
98	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.5
99	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	17.9	23.5
100	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 45 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.5	2.8	3.0	3.4	3.8	4.2	4.8	5.5	5.9	6.9	8.3	10.3
2	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	2.9	3.3	3.6	4.0	4.5	5.1	5.9	6.3	7.3	8.8	11.3
3	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.4	1.9	2.3	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.7	7.7	9.2	11.8
4	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.9	3.3	3.7	4.2	4.6	5.2	5.8	6.6	7.1	8.2	9.7	11.9
5	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.2	7.1	7.6	8.7	10.3	12.5
6	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.1	3.7	4.2	4.8	5.3	5.9	6.6	7.5	8.0	9.2	10.9	13.1
7	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.2	3.8	4.4	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8
8	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.3	3.9	4.6	5.4	6.1	6.7	7.5	8.5	9.1	10.4	12.1	14.5
9	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.0	2.7	3.4	4.1	4.8	5.7	6.4	7.2	8.0	9.1	9.7	11.0	12.8	15.1
10	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.7	3.4	4.1	5.0	6.0	6.8	7.7	8.6	9.7	10.3	11.7	13.5	16.2
11	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.4	4.2	5.2	6.3	7.2	8.2	9.2	10.3	10.9	12.4	14.3	16.9
12	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.3	5.3	6.5	7.6	8.6	9.8	11.0	11.7	13.1	15.2	17.8
13	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.5	4.4	5.4	6.7	7.9	9.1	10.4	11.7	12.4	13.9	16.1	18.8
14	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.4	5.5	6.9	8.2	9.6	11.0	12.5	13.7	14.8	17.0	19.9
15	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.5	5.6	7.0	8.5	10.1	11.6	13.2	14.1	15.7	18.0	21.0
16	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.3	3.3	4.5	5.7	7.2	8.8	10.5	12.2	14.0	15.0	16.7	19.1	22.1
17	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.7	7.3	9.0	10.8	12.8	14.8	15.8	17.8	20.2	23.4
18	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.8	7.4	9.2	11.2	13.4	15.6	16.7	18.9	21.4	24.7
19	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.7	7.5	9.4	11.5	13.9	16.4	17.6	20.0	22.7	26.1
20	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.1	5.6	7.6	9.5	11.7	14.3	17.1	18.5	21.1	24.1	27.6
21	0.0	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.6	9.7	12.0	14.7	17.8	19.4	22.2	25.6	29.2
22	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.3	7.6	9.8	12.2	15.1	18.4	20.2	23.4	26.9	30.9
23	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.2	7.4	9.8	12.4	15.4	19.0	20.9	24.5	28.3	32.7
24	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.7	5.0	7.2	9.8	12.5	15.7	19.5	21.5	25.5	29.8	34.6
25	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	7.0	9.7	12.6	15.9	19.9	22.1	26.5	31.3	36.3
26	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.8	6.8	9.4	12.7	16.2	20.3	22.7	27.3	32.7	38.1
27	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.6	9.2	12.6	16.4	20.7	23.1	28.1	34.0	40.0
28	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.5	8.9	12.4	16.5	21.0	23.6	28.9	35.2	42.0
29	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.4	8.7	12.1	16.5	21.3	24.0	29.5	36.3	43.7
30	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.3	6.2	8.5	11.7	16.4	21.6	24.3	30.1	37.4	45.4
31	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1	8.3	11.4	16.1	21.7	24.6	30.6	38.3	46.9
32	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.2	11.2	15.6	21.7	24.9	31.1	39.1	48.3
33	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.7	8.0	10.9	15.2	21.6	24.9	31.5	39.8	49.6
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.7	14.9	21.2	24.8	31.9	40.5	50.8
35	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.4	7.6	10.5	14.6	20.6	24.5	32.2	41.1	51.8
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.3	7.4	10.3	14.3	20.1	24.0	32.7	41.7	52.8
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.0	14.0	19.7	23.3	32.0	42.2	53.7
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.8	13.7	19.3	22.8	31.6	42.5	54.5
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.8	6.8	9.5	13.4	18.9	22.4	30.8	42.6	55.3
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.3	13.1	18.5	21.9	30.1	42.4	55.9
41	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.6	6.4	9.0	12.8	18.2	21.5	29.4	41.9	56.4
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.3	8.8	12.5	17.8	21.1	28.8	41.0	56.5
43	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.3	6.1	8.6	12.2	17.4	20.7	28.3	40.0	56.3
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.2	5.9	8.3	11.9	17.0	20.3	27.8	39.1	55.7
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	4.0	5.7	8.1	11.6	16.6	19.9	27.3	38.4	54.6
46	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.4	7.9	11.3	16.2	19.4	26.8	37.7	53.3
47	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.7	11.0	15.8	19.0	26.3	37.0	52.3
48	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.5	10.7	15.5	18.5	25.7	36.4	51.3
49	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.6	5.2	7.3	10.5	15.1	18.1	25.2	35.8	50.4
50	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.0	7.1	10.2	14.1	17.6	24.6	35.2	49.4

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 45 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.4	4.9	6.9	9.9	14.3	17.2	24.1	34.5	48.7	
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3	4.7	6.7	9.6	14.0	16.8	23.5	33.7	48.1	
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2	4.6	6.5	9.4	13.7	16.4	22.9	33.0	47.2	
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.4	9.1	13.3	16.0	22.4	32.3	46.3	
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.1	4.3	6.2	8.9	12.9	15.6	21.9	31.6	45.4	
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.6	15.2	21.4	30.9	44.5	
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.5	12.3	14.8	20.9	30.2	43.6	
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	2.1	2.9	4.0	5.7	8.2	12.0	14.4	20.5	29.5	42.7	
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.9	3.9	5.6	8.0	11.8	14.1	19.9	28.9	41.8	
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.8	3.9	5.4	7.8	11.5	13.8	19.4	28.3	40.9	
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.8	3.8	5.3	7.6	11.2	13.5	18.9	27.7	40.0	
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.2	7.4	10.9	13.1	18.5	27.0	39.2	
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.7	5.1	7.2	10.6	12.8	18.2	26.4	38.4	
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.6	5.0	7.1	10.3	12.5	17.7	25.7	37.6	
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.7	3.6	4.9	6.9	10.1	12.1	17.3	25.2	36.8	
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.9	6.8	9.8	11.8	16.9	24.6	36.0	
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.8	6.7	9.6	11.6	16.5	24.2	35.1	
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.7	3.6	4.7	6.6	9.4	11.3	16.0	23.6	34.3	
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7	3.5	4.7	6.5	9.2	11.1	15.6	23.1	33.6	
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.5	4.7	6.4	9.1	10.9	15.3	22.5	33.0	
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.6	6.3	8.7	10.5	14.7	21.4	31.6	
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.6	6.2	8.7	10.3	14.4	21.0	30.9	
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.6	6.2	8.7	10.3	14.4	21.0	30.9	
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.6	6.2	8.6	10.2	14.1	20.5	30.2	
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.6	6.2	8.5	10.0	13.9	20.1	29.5	
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	6.1	8.4	9.9	13.7	19.7	28.8	
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	6.1	8.4	9.8	13.5	19.4	28.2	
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.1	8.4	9.7	13.3	19.0	27.7	
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.7	6.1	8.3	9.7	13.1	18.7	27.2	
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.8	6.1	8.2	9.6	12.9	18.2	26.2
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.5	12.8	17.8	25.4
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.5	12.8	17.8	25.4
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.5	12.7	17.6	25.1
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.2	9.5	12.7	17.4	24.7
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.1	6.5	8.3	9.5	12.6	17.3	24.5
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.6	12.6	17.4	24.2
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.5	9.7	12.6	17.3	23.9
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3	4.1	5.2	6.7	8.6	9.8	12.6	17.2	23.7
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	17.1	23.6
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.8	8.8	10.0	12.7	17.1	23.7
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.4	6.9	8.9	10.1	12.8	17.1	23.7
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.2	12.9	17.1	23.4
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.3	13.1	17.1	23.3
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.6	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.1	23.3
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.2	23.3
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.4	23.3
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.6	23.3
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.3
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	17.9	23.5
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 46 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.5
2	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.9	2.3	2.7	3.0	3.4	3.7
3	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.6	1.9	2.3	2.8	3.2	3.6	4.0
4	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.0	2.4	2.9	3.4	3.8	4.3
5	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.6	4.0	4.6
6	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.7	4.3	4.9
7	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.1	2.6	3.2	3.8	4.5	5.2
8	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.6	3.3	4.0	4.7	5.5
9	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.6	3.3	4.1	4.9	5.8
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.4	2.0	2.7	3.4	4.2	5.1	6.1
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.4	1.9	2.6	3.4	4.3	5.2	6.3
12	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.4	1.9	2.6	3.5	4.4	5.4	6.6
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.3	1.8	2.5	3.5	4.4	5.4	6.8
14	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.3	1.8	2.4	3.4	4.4	5.5	6.9
15	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.2	1.7	2.4	3.4	4.5	5.6	7.1
16	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.2	1.7	2.3	3.2	4.4	5.7	7.2
17	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.2	1.6	2.2	3.1	4.4	5.7	7.3
18	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.1	1.6	2.2	3.1	4.2	5.7	7.5
19	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.0	1.5	2.1	3.0	4.0	5.7	7.5
20	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.5	2.1	2.9	4.0	5.5	7.6
21	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.4	2.0	2.8	3.9	5.3	7.6
22	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.7	3.7	5.1	7.3
23	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.8	2.6	3.6	5.1	7.3
24	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.2	1.8	2.5	3.5	4.8	7.0
25	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.2	1.7	2.4	3.4	4.7	6.9
26	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.2	1.7	2.4	3.3	4.6	6.5	9.2
27	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.2	1.7	2.4	3.3	4.6	6.5	9.2
28	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.6	2.3	3.2	4.5	6.4	8.8
29	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.0	1.5	2.2	3.1	4.4	6.3	8.6
30	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.0	1.4	2.1	3.0	4.2	6.1	8.4
31	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	2.0	2.9	4.1	5.9	8.2
32	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
33	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
35	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
36	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
37	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
38	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
39	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
40	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
41	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
46	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.9	1.3	1.9	2.8	4.0	5.8	8.0

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 46 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3
52	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2
53	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2
54	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	3.1
55	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0
56	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0
57	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.9
58	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.9
59	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.8
60	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.8
61	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.7
62	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.7
63	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	2.0	2.7
64	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	2.0	2.7
65	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.7
66	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.7
67	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.7
68	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.1	2.7
69	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.8
73	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.8
74	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.2	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.8	2.9
81	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	3.0
82	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	3.0
83	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	3.0
84	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.2	1.5	1.9	3.1
85	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.9	3.1
86	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	3.2
87	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	3.2
88	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	3.2
89	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	3.3
90	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	3.3
91	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.1	3.4
92	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	3.4
93	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	3.4
94	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.1	3.4
95	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.3	1.7	2.2	3.5
96	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.3	1.7	2.2	3.5
97	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.2	3.5
98	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	3.6
99	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	3.6
100	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.3	3.7

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 47 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	TEMP	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.0	4.4	5.0	5.8	6.2	7.2	8.6	10.6
2	0.1	0.1	0.2	0.3	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.1
3	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.7	4.1	4.5	5.1	5.7	6.5	7.0	8.1	9.6	11.7
4	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.1	3.6	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9
5	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.8	4.4	5.0	5.6	6.2	6.9	7.9	8.4	9.6	11.3	13.6
6	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.6	3.2	3.9	4.6	5.3	6.0	6.6	7.4	8.4	9.5	10.8	12.6	15.0
7	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.3	4.0	4.8	5.6	6.3	7.1	7.9	8.9	9.5	10.8	12.6	15.0
8	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.3	4.1	4.9	5.9	6.7	7.6	8.4	9.5	10.1	11.5	13.4	15.8
9	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.3	4.1	4.9	5.9	6.7	7.6	8.4	9.5	10.1	11.5	13.4	15.8
10	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.6	3.4	4.2	5.1	6.2	7.1	8.0	9.0	10.1	10.8	12.2	14.1	16.7
11	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.6	3.4	4.3	5.2	6.4	7.5	8.5	9.6	10.8	11.5	12.9	15.0	17.6
12	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.3	1.8	2.6	3.5	4.3	5.3	6.6	7.8	8.9	10.2	11.5	12.2	13.8	15.8	18.6
13	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.3	1.8	2.5	3.4	4.4	5.5	6.8	8.1	9.5	10.8	12.3	13.0	14.6	16.8	19.6
14	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.4	3.4	4.4	5.5	6.8	8.1	9.5	10.8	12.3	13.0	14.6	16.8	19.6
15	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.2	1.7	2.3	3.3	4.4	5.6	7.1	8.7	10.3	12.1	13.8	14.8	16.5	18.8	21.9
16	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.2	1.6	2.3	3.2	4.4	5.7	7.2	8.9	10.7	12.7	14.6	15.6	17.5	20.0	23.1
17	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.1	1.6	2.2	3.1	4.3	5.7	7.4	9.1	11.0	13.2	15.4	16.5	18.5	21.2	24.4
18	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.2	3.0	4.1	5.7	7.5	9.3	11.3	13.7	16.2	17.4	19.7	22.5	25.8
19	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.1	2.9	4.0	5.6	7.5	9.4	11.6	14.1	16.9	18.3	20.8	23.8	27.3
20	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.0	1.4	2.0	2.9	3.9	5.4	7.5	9.5	11.8	14.6	17.6	18.2	21.9	25.3	29.3
21	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.0	14.9	18.2	19.9	23.1	26.7	30.6
22	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.0	1.3	1.9	2.7	3.7	5.1	7.3	9.7	12.4	15.2	18.0	20.3	24.2	28.1	32.4
23	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.9	1.3	1.8	2.6	3.6	5.0	7.1	9.7	12.5	15.5	18.3	21.3	25.2	29.5	34.2
24	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.6	12.5	15.8	19.7	21.9	26.2	31.0	36.0
25	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.9	1.2	1.7	2.5	3.4	4.8	6.6	9.3	12.5	16.0	20.1	22.4	27.1	32.4	37.6
26	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.8	1.2	1.7	2.4	3.3	4.6	6.4	9.1	12.5	16.2	20.5	22.9	27.9	33.7	39.7
27	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.8	1.1	1.6	2.3	3.3	4.5	6.4	8.8	12.3	16.3	20.8	23.3	28.6	34.9	41.6
28	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.8	1.1	1.6	2.2	3.2	4.4	6.3	8.6	11.9	16.3	21.1	23.7	29.2	36.0	43.3
29	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.7	1.1	1.5	2.2	3.1	4.3	6.1	8.4	11.6	16.2	21.4	24.1	29.8	37.0	45.0
30	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.2	11.3	15.9	21.5	24.4	30.3	37.9	46.5
31	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.7	1.0	1.4	2.0	2.9	4.0	5.8	8.1	11.0	15.4	21.5	24.6	30.8	38.7	47.9
32	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.3	1.9	2.7	3.8	5.7	7.9	10.8	15.1	21.3	24.7	31.2	39.4	49.2
33	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.6	14.7	20.9	24.6	31.6	40.1	50.3
34	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.3	1.8	2.6	3.7	5.4	7.5	10.4	14.4	20.3	24.2	31.8	40.7	51.3
35	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.9	1.2	1.8	2.5	3.6	5.1	7.3	10.1	14.1	19.8	23.7	31.8	41.3	52.3
36	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.2	1.7	2.4	3.5	5.1	7.1	9.9	13.8	19.4	23.0	31.6	41.7	53.0
37	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.7	2.4	3.4	4.9	6.9	9.6	13.6	19.0	22.5	31.2	42.1	54.0
38	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.7	9.4	13.2	18.6	22.0	30.4	42.1	54.7
39	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.6	0.8	1.1	1.6	2.2	3.1	4.5	6.5	9.2	12.9	18.3	21.6	29.6	41.9	55.3
40	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.5	2.2	3.1	4.5	6.3	8.9	12.6	18.0	21.2	29.0	41.3	55.8
41	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.7	12.3	17.6	20.8	28.4	40.3	55.8
42	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	12.0	17.2	20.4	27.9	39.4	55.6
43	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.7	16.0	20.0	27.4	38.6	54.9
44	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	1.0	1.4	1.9	2.7	4.0	5.6	8.0	11.4	16.4	19.5	26.9	37.8	53.8
45	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	0.9	1.3	1.8	2.6	3.9	5.5	7.8	11.1	16.0	19.1	26.4	37.1	52.5
46	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	0.9	1.3	1.8	2.5	3.8	5.3	7.6	10.8	15.6	18.6	25.9	36.5	51.4
47	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.3	10.5	15.2	18.2	25.3	35.9	50.5
48	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.1	7.1	10.3	14.8	17.7	24.8	35.3	49.6
49	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	0.9	1.2	1.7	2.3	3.4	4.9	6.9	10.0	14.4	17.3	24.2	34.6	48.7
50	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	0.5	0.7	0.9	1.2	1.6	2.3	3.3	4.8	6.8	9.7	14.1	16.9	23.6	33.9	48.0

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 48 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.9	2.2	2.6	2.9	3.3	3.7	4.1	4.5	5.1	5.9	6.3	7.3	8.8	10.8	
2	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.8	5.5	6.3	6.7	7.8	9.3	11.3	
3	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.9	3.3	3.7	4.2	4.7	5.2	5.8	6.7	7.1	8.2	9.8	11.9	
4	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.4	3.0	3.5	4.0	4.5	5.0	5.5	6.2	7.1	7.6	8.7	10.3	12.5	
5	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.1	3.7	4.2	4.8	5.3	5.9	6.6	7.6	8.1	9.2	10.9	13.1	
6	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.2	3.8	4.4	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8	
7	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	3.9	4.6	5.4	6.1	6.8	7.4	8.6	9.1	10.4	12.2	14.5	
8	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.6	3.3	4.0	4.8	5.7	6.5	7.3	8.1	9.1	9.7	11.0	12.9	15.3	
9	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.4	4.1	5.0	6.0	6.9	7.7	8.6	9.7	10.4	11.7	13.6	16.1	
10	0.1	0.1	0.1	0.2	0.3	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.1	6.2	7.3	8.2	9.2	10.4	11.0	12.5	14.4	17.0	
11	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.4	4.3	5.3	6.5	7.6	8.7	9.8	11.1	11.7	13.2	15.3	18.0	
12	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.3	5.4	6.7	7.9	9.2	10.4	11.8	12.5	14.1	16.2	18.9	
13	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	6.8	8.2	9.6	11.0	12.6	13.3	14.9	17.1	20.0	
14	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.4	5.6	7.0	8.5	10.1	11.7	13.3	14.2	15.9	18.2	21.1	
15	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.6	7.1	8.7	10.5	12.3	14.1	15.1	16.9	19.3	22.3	
16	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.3	5.7	7.3	8.9	10.8	12.8	14.9	15.9	18.0	20.4	23.6	
17	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.7	7.4	9.1	11.1	13.4	15.7	16.8	19.1	21.7	24.9	
18	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.5	9.4	11.4	13.8	16.5	17.7	20.1	23.0	26.4	
19	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	7.5	9.6	11.9	14.7	17.8	19.4	22.4	25.8	29.5	
20	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.2	7.4	9.7	12.1	15.0	18.4	20.2	23.6	27.2	31.3	
21	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.7	5.0	7.2	9.7	12.2	15.3	19.0	20.9	24.6	28.6	33.1	
22	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	7.0	9.6	12.4	15.6	19.4	21.5	25.6	30.1	34.9	
23	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.8	6.8	9.4	12.5	15.8	19.8	22.1	26.5	31.6	36.7	
24	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.6	9.1	12.4	16.0	20.2	22.5	27.1	32.9	38.5	
25	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.5	8.9	12.3	16.2	20.6	23.0	28.1	34.1	40.4	
26	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.4	6.3	8.7	12.0	16.2	20.9	23.4	28.7	35.3	42.3	
27	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.3	6.2	8.5	11.7	16.2	21.1	23.8	29.3	36.3	44.0	
28	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.3	11.4	16.0	21.3	24.1	29.9	37.3	45.5	
29	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.1	11.1	15.6	21.4	24.4	30.4	38.1	47.0	
30	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	7.9	10.9	15.1	21.3	24.5	30.8	38.9	48.3	
31	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.6	7.7	10.6	14.8	21.0	24.5	31.2	39.6	49.6	
32	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.7	5.4	7.5	10.4	14.5	20.5	24.3	31.6	40.2	50.6	
33	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.2	7.3	10.2	14.1	20.0	23.8	31.7	40.8	51.6	
34	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.2	7.3	10.2	14.1	20.0	23.8	31.7	40.8	51.6	
35	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.1	10.0	13.9	19.5	23.1	31.6	41.3	52.5	
36	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.9	6.9	9.7	13.6	19.1	22.6	31.2	41.7	53.3	
37	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.8	6.8	9.5	13.3	18.7	22.1	30.6	41.9	54.1	
38	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.6	9.2	13.0	18.3	21.7	29.8	41.6	54.8	
39	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.5	6.4	9.0	12.7	18.0	21.2	29.1	41.4	55.3	
40	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.3	8.7	12.4	17.6	20.9	28.5	40.6	55.5	
41	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.3	6.0	8.5	12.1	17.2	20.5	27.9	39.5	55.4	
42	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.9	8.3	11.8	16.8	20.1	27.4	38.7	55.0	
43	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	4.0	5.7	8.0	11.4	16.5	19.6	27.0	37.9	54.0	
44	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.9	5.5	7.8	11.1	16.1	19.2	26.5	37.2	52.6	
45	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.7	26.0	36.5	51.6	
46	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.3	18.3	25.4	35.9	50.6	
47	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.6	5.1	7.2	10.3	14.9	17.8	24.8	35.3	49.7	
48	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.5	4.9	7.0	10.1	14.5	17.4	24.3	34.7	48.0	
49	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.4	4.8	6.8	9.8	14.1	17.0	23.7	34.0	48.0	
50	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.3	4.6	6.6	9.5	13.8	16.5	23.2	33.3	47.3	

TEMPERATURE, °C

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 40 PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, MZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.2	13.5	16.2	22.6	32.5	46.5
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	3.1	4.4	6.3	9.0	13.1	15.8	22.1	31.8	45.6
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0	4.3	6.1	8.8	12.7	15.4	21.6	31.1	44.7
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0	4.2	5.9	8.6	12.4	15.0	21.1	30.4	43.8
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.9	4.1	5.7	8.3	12.1	14.6	20.6	29.7	42.9
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.8	4.0	5.6	8.1	11.8	14.2	20.1	29.1	42.0
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.5	7.9	11.6	13.9	19.6	28.4	41.1
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.8	3.8	5.3	7.6	11.3	13.6	19.1	27.8	40.2
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.2	7.5	11.0	13.2	18.6	27.2	39.3
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.1	7.3	10.7	12.9	18.2	26.6	38.5
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.6	5.0	7.1	10.4	12.6	17.8	25.9	37.7
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.6	4.9	7.0	10.1	12.2	17.4	25.3	36.9
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.5	4.8	6.8	9.9	11.9	17.0	24.7	36.1
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.6	3.5	4.8	6.7	9.6	11.6	16.6	24.2	35.3
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.5	4.7	6.6	9.4	11.3	16.1	23.7	34.4
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.5	4.6	6.5	9.2	11.1	15.7	23.2	33.7
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.6	6.4	9.1	10.9	15.3	22.6	33.0
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.6	6.3	8.9	10.6	15.0	22.1
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.6	6.2	8.8	10.4	14.7	21.5
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.6	10.3	14.4	21.0
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.5	10.1	14.1	20.5
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.4	10.0	13.8	20.1
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.5	6.1	8.3	9.8	13.6	19.7
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	6.0	8.2	9.7	13.4	19.3
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.5	6.0	8.2	9.6	13.2	18.9
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.5	6.0	8.2	9.5	13.0	18.6
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	6.0	8.1	9.5	12.9	18.3
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.0	8.1	9.5	12.7	18.1	
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.0	8.1	9.4	12.6	17.8	
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.7	6.1	8.1	9.4	12.5	17.6	
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	6.1	8.0	9.3	12.5	
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.1	9.3	12.5	
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.3	12.4	
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	12.3	
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.0	4.0	5.0	6.4	8.3	9.4	12.3	
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.3	
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.6	12.3	
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.3	
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.3	6.7	8.6	9.8	12.4	
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.5	
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.2	5.3	6.8	8.8	10.0	12.7	
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	12.8	
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3		
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3		
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4		
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5		
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6		
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7		
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8		
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9		

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 49 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.0	3.4	3.7	4.2	4.6	5.2	6.0	6.5	7.5	8.9	11.0
2	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	1.9	2.3	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.4	6.9	7.9	9.4	11.5
3	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.9	3.4	3.8	4.3	4.8	5.3	6.0	6.8	7.3	8.4	9.9	12.1
4	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.0	3.5	4.1	4.6	5.1	5.7	6.4	7.2	7.8	9.0	10.5	12.7
5	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.7	4.3	4.9	5.5	6.1	6.8	7.7	8.3	9.4	11.1	13.4
6	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.2	3.8	4.5	5.2	5.9	6.5	7.3	8.2	8.8	10.0	11.7	14.1
7	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	4.0	4.7	5.5	6.2	6.9	7.8	8.8	9.3	10.6	12.4	14.8
8	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.3	4.1	4.9	5.8	6.6	7.4	8.3	9.3	10.0	11.3	13.1	15.6
9	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.1	5.0	6.1	7.0	7.9	8.8	10.0	10.6	12.0	13.9	16.4
10	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.2	6.3	7.4	8.4	9.5	10.6	11.3	12.7	14.7	17.3
11	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.3	5.3	6.5	7.7	8.9	10.1	11.3	12.0	13.5	15.6	18.3
12	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.3	5.4	6.7	8.0	9.4	10.6	12.1	12.8	14.4	16.5	19.3
13	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	6.9	8.3	9.8	11.3	12.9	13.6	15.3	17.5	20.4
14	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.4	5.6	7.0	8.6	10.2	11.9	13.6	14.5	16.2	18.6	21.6
15	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.2	4.4	5.6	7.2	8.8	10.6	12.5	14.4	15.4	17.3	19.7	22.8
16	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.7	7.3	9.0	10.9	13.0	15.2	16.2	18.4	20.9	24.1
17	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.6	7.4	9.2	11.2	13.5	16.0	17.1	19.5	22.1	25.5
18	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.0	5.5	7.5	9.3	11.5	14.0	16.7	18.1	20.5	23.5	26.9
19	0.0	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.5	9.4	11.7	14.4	17.4	18.9	21.7	24.9	28.5
20	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.7	5.1	7.3	9.6	12.1	15.0	18.6	20.4	23.9	27.7	32.0
21	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.7	5.1	7.3	9.6	12.3	15.3	19.1	21.1	24.9	29.2	33.8
22	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	7.0	9.5	12.4	15.6	19.5	21.7	25.9	30.7	35.6
23	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.5	12.4	15.6	19.5	21.7	25.9	30.7	35.6
24	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.7	6.7	9.3	12.4	15.8	19.9	22.2	26.8	32.0	37.4
25	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.5	9.0	12.3	16.0	20.3	22.7	27.6	33.3	39.2
26	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.4	8.7	12.1	16.1	20.6	23.1	28.3	34.5	41.2
27	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.2	8.5	11.8	16.1	20.9	23.5	28.9	35.6	42.9
28	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.2	6.1	8.3	11.5	16.0	21.1	23.8	29.5	36.6	44.5
29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.1	11.2	15.7	21.3	24.1	30.0	37.5	46.0
30	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.0	10.9	15.3	21.3	24.4	30.5	38.3	47.4
31	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.7	5.4	7.6	10.7	14.9	21.1	24.4	30.9	39.0	48.7
32	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.4	7.6	10.5	14.5	20.7	24.3	31.2	39.7	49.9
33	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.3	7.4	10.3	14.2	20.1	24.0	31.5	40.3	50.8
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.0	13.9	19.6	23.4	31.5	40.9	51.8
35	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.8	13.6	19.2	22.7	31.3	41.3	52.7
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.6	9.3	13.1	18.4	21.8	30.0	41.6	54.2
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.6	6.4	9.0	12.6	18.0	21.3	29.3	41.4	54.8
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.4	6.2	8.8	12.5	17.3	20.9	28.6	40.8	55.2
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.3	6.1	8.5	12.1	17.3	20.6	28.0	39.8	55.2
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.2	5.9	8.3	11.8	16.9	20.1	27.5	38.8	54.9
41	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.0	5.7	8.1	11.5	16.5	19.7	27.0	38.0	54.2
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.6	7.9	11.2	16.1	19.3	26.6	37.3	53.0
43	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.7	10.9	15.7	18.8	26.1	36.6	51.7
44	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.4	10.6	15.3	18.4	25.5	36.0	50.7
45	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.6	5.1	7.2	10.4	15.0	17.9	24.9	35.4	49.8
46	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.4	4.8	6.8	9.8	14.2	17.0	23.8	34.1	48.1
47	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.4	4.8	6.8	9.8	14.2	17.0	23.8	34.1	48.1
48	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.3	4.7	6.7	9.5	13.9	16.6	23.3	33.4	47.3
49	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.3	4.7	6.7	9.5	13.9	16.6	23.3	33.4	47.3
50	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.3	13.6	16.2	22.7	32.6	46.6

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 49 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	3.1	4.4	6.3	9.0	13.2	15.8	22.2	31.9	45.7	
52	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0	4.3	6.1	8.8	12.8	15.5	21.6	31.2	44.8	
53	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9	4.1	5.8	8.6	12.5	15.1	21.1	30.5	43.9	
54	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9	4.0	5.6	8.4	12.2	14.6	20.7	29.8	43.0	
55	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.9	4.0	5.6	8.1	11.9	14.3	20.2	29.1	42.1	
56	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.3	7.7	11.6	13.9	19.7	28.5	41.2	
57	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8	3.8	5.3	7.7	11.3	13.6	19.2	27.9	40.3	
58	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.2	7.5	11.0	13.3	18.7	27.3	39.4	
59	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.1	7.3	10.7	13.0	18.2	26.7	38.6	
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.7	3.6	5.0	7.1	10.4	12.6	17.9	26.0	37.7	
61	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.7	3.6	4.9	7.0	10.1	12.3	17.5	25.3	37.0	
62	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.5	4.8	6.8	9.9	11.9	17.1	24.7	36.2	
63	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.5	4.8	6.7	9.7	11.6	16.6	24.2	35.4	
64	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.5	4.7	6.6	9.5	11.4	16.2	23.7	34.5	
65	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.5	4.6	6.4	9.2	11.1	15.8	23.2	33.7	
66	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.6	6.4	9.1	10.9	15.4	22.7	33.0	
67	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.6	6.3	8.9	10.7	15.0	22.1	32.3	
68	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.6	6.2	8.7	10.4	14.7	21.6	31.8	
69	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.5	6.1	8.6	10.3	14.4	21.0	31.1	
70	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.5	10.1	14.1	20.6	30.4	
71	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.4	9.9	13.8	20.1	29.7	
72	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.5	6.0	8.3	9.8	13.6	19.7	29.0	
73	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.5	6.0	8.2	9.7	13.4	19.3	28.3	
74	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	6.0	8.1	9.5	13.2	18.9	27.7	
75	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	6.0	8.1	9.5	13.2	18.9	27.7	
76	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.5	5.9	8.1	9.4	12.8	18.3	26.6	
77	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.9	8.0	9.4	12.7	18.0	26.1	
78	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	5.9	8.0	9.4	12.5	17.8	25.6	
79	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	5.9	8.0	9.3	12.5	17.6	25.2	
80	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.7	6.1	8.0	9.3	12.4	17.3	24.8
81	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	6.1	8.0	9.3	12.4	17.3	24.5
82	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.0	9.3	12.3	17.0	24.2
83	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.3	12.3	16.9	23.9
84	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	12.2	16.9	23.6
85	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.2	16.8	23.3
86	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.2	16.7	23.1
87	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.6	12.2	16.7	23.0
88	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.6	23.0
89	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.2	6.7	8.6	9.8	12.4	16.6	23.0
90	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.6	22.8
91	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.0	12.7	16.6	22.7
92	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	12.8	16.7	22.7
93	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.2	12.9	16.9	22.7
94	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.1	22.7
95	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.2	22.7
96	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.4	22.8
97	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.6	23.0
98	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.3
99	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.8	7.4	9.5	10.8	13.7	17.9	23.5
100	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 50 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MHz																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	T	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.1
2	E	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.3	2.8	3.3	3.7	4.1	4.6	5.1	5.7	6.5	7.0	8.1	9.6	11.7
3	M	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.4	2.9	3.4	3.9	4.4	4.9	5.4	6.1	6.9	7.4	8.6	10.1	12.3
4	P	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.0	3.6	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9
5	E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.7	4.4	5.0	5.6	6.2	7.0	7.9	8.4	9.6	11.3	13.6
6	F	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	3.9	4.6	5.3	6.0	6.6	7.4	8.4	9.0	10.2	12.0	14.3
7	N	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.0	2.6	3.3	4.0	4.8	5.6	6.3	7.1	7.9	9.0	9.5	10.8	12.7	15.1
8	H	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.3	4.1	4.9	5.9	6.7	7.6	8.5	9.5	10.2	11.5	13.4	15.9
9	E	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.1	6.1	7.1	8.1	9.1	10.2	10.6	12.2	14.2	16.7
10	T	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.4	4.2	5.2	6.4	7.5	8.5	9.7	10.9	11.5	13.0	15.0	17.7
11	E	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.4	4.2	5.2	6.4	7.5	8.5	10.3	11.6	12.3	13.8	15.9	18.7
12	M	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.4	3.4	4.4	5.4	6.8	8.1	9.5	10.9	12.3	13.1	14.7	16.9	19.7
13	P	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.4	5.6	6.9	8.4	9.9	11.5	13.1	13.9	15.6	17.9	20.8
14	E	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.6	7.1	8.6	10.3	12.1	13.9	14.8	16.6	19.0	22.0
15	F	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.6	7.2	8.8	10.7	12.7	14.7	15.7	17.7	20.1	23.2
16	N	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	5.6	7.3	9.0	11.0	13.2	15.5	16.6	18.8	21.3	24.6
17	H	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.0	5.6	7.4	9.2	11.3	13.7	16.2	17.5	19.8	22.6	26.0
18	E	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	3.9	5.4	7.4	9.3	11.5	14.1	16.9	18.4	20.9	24.0	27.5
19	T	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	7.4	9.5	11.7	14.5	17.6	19.2	22.1	25.5	29.1
20	E	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.7	5.1	7.3	9.6	11.9	14.8	18.2	19.9	23.2	26.8	30.8
21	M	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	6.9	9.5	12.3	15.4	19.2	21.3	25.3	29.7	34.4
22	P	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.7	6.7	9.3	12.3	15.6	19.6	21.8	26.2	31.2	36.2
23	E	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.6	6.6	9.1	12.3	15.8	20.0	22.3	27.0	32.5	38.1
24	F	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.5	6.4	8.8	12.2	16.0	20.3	22.8	27.8	33.7	40.0
25	N	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.4	6.3	8.6	11.9	16.1	20.6	23.2	28.4	34.9	41.8
26	H	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.1	4.3	6.1	8.4	11.3	15.0	20.9	23.5	29.0	35.9	43.5
27	E	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.8	8.0	11.0	15.4	21.2	24.1	30.1	37.7	46.5
28	F	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	7.9	10.7	15.0	21.1	24.3	30.5	38.5	47.8
29	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	7.9	10.7	15.0	21.1	24.3	30.5	38.5	47.8
30	H	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	7.9	10.7	15.0	21.1	24.3	30.5	38.5	47.8
31	E	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.5	14.6	20.8	24.2	30.9	39.2	49.1
32	F	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.3	7.5	10.3	14.3	20.3	24.0	31.2	39.8	50.1
33	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.2	7.3	10.1	14.0	19.7	23.6	31.3	40.4	51.1
34	H	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.4	3.5	5.0	7.1	9.8	13.5	19.3	22.9	31.7	40.9	52.0
35	E	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.3	13.2	18.5	21.9	30.2	41.4	53.5
36	F	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.3	13.2	18.5	21.9	30.2	41.4	53.5
37	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.3	13.2	18.5	21.9	30.2	41.4	53.5
38	H	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.3	6.3	8.9	12.5	17.8	21.0	28.8	40.9	54.7
39	E	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.3	8.9	12.5	17.8	21.0	28.8	40.9	54.7
40	F	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
41	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
42	H	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
43	E	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
44	F	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
45	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
46	H	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
47	E	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
48	F	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
49	N	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
50	H	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 50 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	3.0
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.7
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.7
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.7
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.7
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.7
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.0
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.1
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	3.1
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	3.1
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	3.2
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	3.2
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	3.2
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	3.3
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	3.3
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	3.3
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	3.4
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	3.4
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	3.4
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	3.5
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	3.5
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.6
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	3.6
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	3.6
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.7

TEMPERATURE, ° F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 51 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.5
2	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.9	3.3	3.7	4.2
3	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.4	3.0	3.5	4.0	4.5
4	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.6	4.2	4.8
5	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.1	3.8	4.6	5.1
6	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	3.9	4.6	5.4
7	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.3	4.0	4.8	5.7
8	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.0	6.0
9	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.1
10	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.2	5.2	6.4
11	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.4	4.3	5.3	6.6
12	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.3	5.4	6.8
13	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.4	5.5	6.9
14	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.3	5.6	7.1
15	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.6	7.2
16	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.6	7.3
17	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.4
18	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.3	7.4
19	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.2	7.3
20	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.7	5.0	7.2
21	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.9	1.2	1.8	2.6	3.6	4.9	7.0
22	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8
23	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.6
24	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.6	0.8	1.2	1.7	2.4	3.4	4.6	6.5
25	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.8	1.1	1.6	2.3	3.2	4.4	6.3
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.8	1.1	1.5	2.2	3.1	4.3	6.2
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.9
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.6	0.9	1.3	1.9	2.6	3.7	5.4
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.2
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.9
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.5
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.3	1.9	2.7	4.0
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.9
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.8
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.3	1.7	2.5	3.7
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.4
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.1
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 51 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	3.0
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.7
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.7
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.6
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.3
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8

TEMPERATURE, °C

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 5% PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	2.3	2.8	3.2	3.6
2	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.9	3.4	3.8
3	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.4	3.0	3.5	4.0
4	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.7	4.3
5	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.1	3.8	4.5
6	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.2	3.9	4.7
7	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.7	4.4
8	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.7	4.4
9	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
11	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
12	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
13	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
14	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
15	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
16	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
17	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
18	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
19	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
20	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
21	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
22	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
24	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.4

TEMPERATURE, DEGREES

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 52 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.1	5.9	8.5	12.4	14.9	20.9	30.2	43.4
52	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.0	5.7	8.3	12.0	14.5	20.5	29.5	42.5
53	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.6	8.1	11.7	14.1	20.0	28.8	41.6
54	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.7	3.8	5.4	7.8	11.5	13.8	19.5	28.2	40.7
55	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.7	3.8	5.3	7.6	11.2	13.4	19.0	27.6	39.8
56	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.6	3.7	5.2	7.4	10.9	13.2	18.5	27.0	39.0
57	R	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.6	3.6	5.0	7.2	10.6	12.8	18.0	26.4	38.1
58	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.6	4.9	7.0	10.3	12.5	17.6	25.7	37.3
59	T	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.5	4.8	6.9	10.0	12.1	17.3	25.0	36.5
60	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.5	4.8	6.7	9.8	11.8	16.8	24.4	35.8
61	M	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.4	4.7	6.6	9.5	11.5	16.4	23.9	35.0
62	P	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.4	4.6	6.5	9.3	11.2	16.0	23.4	34.1
63	F	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.4	4.5	6.4	9.1	11.0	15.6	22.9	33.3
64	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.4	4.5	6.3	8.9	10.7	15.2	22.4	32.5
65	R	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.4	4.5	6.2	8.6	10.5	14.8	21.8	31.9
66	A	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.5	6.1	8.6	10.3	14.5	21.3	31.3
67	T	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.4	6.0	8.5	10.1	14.2	20.8	30.6
68	U	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.4	6.0	8.4	9.9	13.9	20.2	29.9
69	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7	3.3	4.4	5.9	8.2	9.8	13.6	19.8	29.2
70	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.4	5.9	8.1	9.6	13.4	19.4	28.5
71	.	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.4	5.9	8.0	9.5	13.2	19.0	27.8
72	D	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.4	5.8	8.0	9.4	13.0	18.6	27.2
73	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.4	5.8	8.0	9.3	12.8	18.3	26.7
74	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	5.8	8.0	9.3	12.6	18.0	26.2
75	G	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.5	5.8	7.9	9.3	12.4	17.7	25.7
76	R	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.8	7.9	9.2	12.3	17.5	25.2
77	E	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.9	7.8	9.2	12.2	17.3	24.8
78	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	5.9	7.8	9.1	12.2	17.0	24.4
79	S	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.0	7.8	9.1	12.2	16.8	24.0
80	F	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.7	6.1	7.9	9.1	12.1	16.7	23.7
81	A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	6.1	7.9	9.1	12.0	16.6	23.5
82	H	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.0	9.1	12.0	16.6	23.2
83	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.2	12.0	16.5	22.9
84	R	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	12.0	16.4	22.7
85	M	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.0	16.3	22.6
86	H	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.1	16.3	22.6
87	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.6	12.2	16.3	22.5
88	I	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.7	8.6	9.7	12.3	16.3	22.4
89	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.3	6.7	8.6	9.8	12.5	16.3	22.3
90	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.4	22.3
91	I	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.0	12.7	16.5	22.3
92	T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	12.8	16.7	22.3
93	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.2	12.9	16.9	22.3
94	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.1	22.4
95	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.2	22.6
96	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.4	22.9
97	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.6	23.1
98	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.3
99	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.8	13.7	17.9	23.5
100	E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7

T E M P E R A T U R E • D E G R E E S F A H R E I T

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 53 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.7
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.7
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.6
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.6
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.6
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.3	2.9
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.3	2.9
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.4
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 5% PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	2.3	2.8	3.3	4.2
2	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	1.9	2.4	2.9	3.5	4.5
3	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.0	3.6	4.8
4	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.1	3.7	5.1
5	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.2	3.9	5.4
6	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.2	4.0	5.7
7	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	5.9
8	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	6.2
9	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	6.4
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	6.6
11	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	6.7
12	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	6.9
13	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.0
14	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.1
15	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.2
16	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.3
17	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.4
18	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.5
19	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.6
20	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.7
21	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.8
22	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	7.9
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.0
24	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.1
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.2
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.3
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.4
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.5
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.6
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.7
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.8
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	8.9
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.0
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.1
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.2
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.3
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.4
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.5
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.6
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.7
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.8
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	9.9
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.0
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.1
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.2
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.3
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.4
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.5
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.6
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.8	10.7

TEMPERATURE, DEGREES F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 54 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	4.0
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	3.9
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.7	3.8
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7	3.7
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.6
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.6
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.5
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.4	1.9	2.6	3.5
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.4
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7	3.4
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.2	2.8	3.5
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	2.0	2.3	3.8
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	2.0	2.3	3.8
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.8
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.8
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.9
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.9
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.9
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.9
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.9
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.9
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.9
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.9
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.9
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.9
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.9
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.9
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.9
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.9
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.9
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.9
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.9

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 55 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, Hz																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	T	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.4	2.9	3.3	3.8	4.3	4.7	5.3	5.9	6.8	7.2	8.3	9.9	12.0
2	E	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.5	4.0	4.6	5.1	5.6	6.3	7.2	7.7	8.8	10.4	12.6
3	M	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.0	3.5	4.2	4.9	5.4	6.0	6.8	7.7	8.2	9.4	11.0	13.3
4	P	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.1	3.6	4.1	4.8	5.5	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.7
5	R	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	2.9	3.2	3.9	4.6	5.5	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.7
6	E	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.2	3.9	4.0	4.8	5.8	6.6	7.4	8.3	9.3	9.9	11.2	13.1	15.5
7	A	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.3	4.1	4.1	5.0	6.0	7.0	7.9	8.8	9.9	10.6	12.0	13.9	16.4
8	R	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.1	4.1	5.1	6.2	7.3	8.3	9.4	10.6	11.3	12.7	14.7	17.3
9	U	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.3	4.2	4.2	5.2	6.4	7.6	8.8	10.0	11.3	12.0	13.5	15.6	18.3
10	F	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.3	4.3	4.3	5.3	6.4	7.8	9.3	10.6	12.1	12.8	14.4	16.5	19.3
11	E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.3	4.3	5.4	6.8	8.2	9.7	11.2	12.9	13.7	15.3	17.5	20.4
12	R	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	4.2	5.5	7.0	8.4	10.1	11.9	13.6	14.5	16.3	18.6	21.6
13	A	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	4.2	5.5	7.1	8.8	10.8	12.9	15.2	16.3	18.3	21.0	24.2
14	P	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	4.1	5.4	7.2	9.0	11.0	13.4	15.9	17.2	19.5	22.3	25.6
15	E	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	3.9	3.9	5.4	7.3	9.1	11.3	13.8	16.6	18.1	20.6	23.6	27.1
16	R	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	3.7	3.7	5.1	7.2	9.3	11.5	14.2	17.3	18.8	21.7	25.1	28.7
17	A	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	3.7	5.1	7.2	9.3	11.7	14.5	17.9	19.6	22.9	26.4	30.4
18	U	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	3.6	5.0	7.1	9.3	11.9	14.8	18.4	20.3	23.9	27.8	32.2
19	F	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.5	3.5	4.9	7.0	9.3	12.0	15.1	18.8	20.9	24.9	29.3	34.0
20	E	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.5	3.5	4.7	6.7	9.3	12.0	15.1	18.8	20.9	24.9	29.3	34.0
21	R	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.4	3.4	4.6	6.5	9.1	12.1	15.3	19.2	21.4	25.7	30.7	35.7
22	A	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.3	3.3	3.3	4.4	6.2	8.6	12.0	15.5	19.6	21.9	26.6	32.0	37.6
23	P	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	4.3	5.6	8.1	11.2	15.4	20.5	23.1	28.5	35.4	42.9	49.8
24	E	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	4.3	5.6	8.0	10.9	15.4	20.7	23.4	29.0	36.3	44.4	51.8
25	R	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	7.6	10.7	14.9	20.7	23.6	29.5	37.0	45.8	54.1
26	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	7.5	10.4	14.5	20.5	23.7	29.9	37.8	47.1	56.6
27	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	7.4	10.2	14.2	20.2	23.6	30.3	38.5	48.3	58.3
28	F	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	7.2	9.8	13.8	19.6	23.3	30.5	39.1	49.2	59.6
29	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.9	9.3	13.5	19.1	22.8	30.6	39.6	50.2	60.6
30	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.8	9.5	13.3	18.7	22.1	29.9	40.4	51.8	62.5
31	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.7	8.8	12.4	17.5	20.7	28.4	40.2	53.1	64.1
32	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.6	8.6	12.4	17.5	20.7	28.4	40.2	53.1	64.1
33	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.5	8.5	12.4	17.5	20.7	28.4	40.2	53.1	64.1
34	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.4	8.4	12.4	17.5	20.7	28.4	40.2	53.1	64.1
35	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.3	8.3	12.4	17.5	20.7	28.4	40.2	53.1	64.1
36	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.2	8.2	12.4	17.5	20.7	28.4	40.2	53.1	64.1
37	F	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.1	8.1	12.4	17.5	20.7	28.4	40.2	53.1	64.1
38	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	6.0	8.0	12.4	17.5	20.7	28.4	40.2	53.1	64.1
39	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.9	7.9	12.4	17.5	20.7	28.4	40.2	53.1	64.1
40	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.8	7.8	12.4	17.5	20.7	28.4	40.2	53.1	64.1
41	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.7	7.7	12.4	17.5	20.7	28.4	40.2	53.1	64.1
42	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.6	7.6	12.4	17.5	20.7	28.4	40.2	53.1	64.1
43	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.5	7.5	12.4	17.5	20.7	28.4	40.2	53.1	64.1
44	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.4	7.4	12.4	17.5	20.7	28.4	40.2	53.1	64.1
45	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.3	7.3	12.4	17.5	20.7	28.4	40.2	53.1	64.1
46	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.2	7.2	12.4	17.5	20.7	28.4	40.2	53.1	64.1
47	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.1	7.1	12.4	17.5	20.7	28.4	40.2	53.1	64.1
48	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	5.0	7.0	12.4	17.5	20.7	28.4	40.2	53.1	64.1
49	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	4.9	6.9	12.4	17.5	20.7	28.4	40.2	53.1	64.1
50	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	3.8	5.1	4.8	6.8	12.4	17.5	20.7	28.4	40.2	53.1	64.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 55 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.7
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.4	1.9	2.6
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.3
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.7	3.4
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.1	2.7	3.5
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.3	1.7	2.2	2.7	3.5
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.2	2.7	3.5
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.8	3.6
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.8	3.6
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.8	3.6
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.3	2.8	3.7

TEMPERATURE, °C

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 56 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	1.9	2.7	3.6	5.4	7.9	11.5	13.8	19.5	28.2	40.7
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7	3.7	5.3	7.6	11.2	13.4	19.0	27.5	39.8
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7	3.7	5.2	7.4	10.9	13.1	18.5	26.9	38.9
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6	3.6	5.0	7.2	10.6	12.8	18.0	26.3	38.0
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.5	4.9	7.0	10.3	12.5	17.6	25.7	37.2
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.5	4.8	6.9	10.0	12.2	17.2	25.0	36.4
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.4	4.7	6.7	9.8	11.8	16.8	24.4	35.6
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.6	6.5	9.5	11.5	16.4	23.8	34.9
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.3	4.6	6.4	9.3	11.2	16.0	23.3	34.0
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.3	4.5	6.3	9.1	10.9	15.6	22.8	33.2
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.3	4.4	6.2	8.9	10.7	15.1	22.3	32.4
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.3	4.4	6.1	8.7	10.4	14.7	21.8	31.7
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3	4.4	6.0	8.5	10.2	14.4	21.2	31.0
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3	4.4	5.9	8.4	10.0	14.1	20.7	30.4
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3	4.3	5.8	8.2	9.8	13.8	20.1	29.8
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.3	5.8	8.1	9.7	13.5	19.7	29.1
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.3	5.8	8.0	9.5	13.2	19.2	28.4
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.3	5.8	7.9	9.4	13.0	18.9	27.7
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7	3.4	4.3	5.7	7.8	9.3	12.8	18.5	27.0
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.7	7.8	9.1	12.6	18.1	26.4
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.7	7.8	9.1	12.4	17.8	25.9
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.7	7.7	9.0	12.3	17.5	25.4
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.4	5.7	7.7	9.0	12.1	17.2	24.9
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.4	5.7	7.7	9.0	12.0	17.0	24.5
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.5	5.8	7.7	8.9	11.9	16.8	24.1
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.8	7.7	8.9	11.9	16.6	23.7
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.9	7.7	8.9	11.9	16.4	23.4
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	5.9	7.7	8.9	11.8	16.2	23.1
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.0	7.8	8.9	11.7	16.2	22.8
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.8	4.7	6.1	7.9	8.9	11.7	16.2	22.5
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.1	7.9	9.0	11.7	16.1	22.3
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.0	9.1	11.7	16.0	22.1
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.2	11.7	15.9	22.1
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	11.8	15.9	22.1
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.0	15.9	22.0
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.1	15.9	21.9
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.6	12.2	16.0	21.8
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.1	21.8
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.2	6.7	8.6	9.8	12.5	16.3	21.8
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.4	21.8
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.3	6.8	8.8	10.0	12.7	16.6	21.8
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	12.8	16.7	22.0
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	9.0	10.2	12.9	16.9	22.2
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.1	22.4
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.3	17.2	22.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.2	17.4	22.9
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.6	23.1
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.3
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.8	7.4	9.5	10.8	13.7	17.9	23.5
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 57 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.7
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.8	2.5
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.8	2.5
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.1	2.7
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 50 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
T	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5
E	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.8
M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.5	3.1	3.7	4.4	5.1
P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.6	5.4
A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.6	5.7
U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.0	4.9	6.0
R	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.4	3.3	4.2	5.0	6.2
E	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.3	4.2	5.1	6.4
•	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.2	6.6
D	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.4	6.8
E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.4	7.0
G	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.0	5.4	7.1
R	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
S	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
F	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
A	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
H	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
E	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
M	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
H	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
F	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
I	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
T	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
63	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
100	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
125	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
160	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
200	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
250	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
315	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
400	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
500	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
630	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
800	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
1000	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
1250	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
1600	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
2000	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
2500	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
3150	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
4000	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
5000	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
6300	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
8000	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1
10000	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	5.4	7.1

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 59 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																							
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.6	5.1	5.7	6.4	7.3	7.8	8.9	10.5	12.7
2	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.3	4.9	5.5	6.1	6.8	7.7	8.3	9.5	11.1	13.4	
3	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.5	5.2	5.9	6.5	7.3	8.3	8.8	10.1	11.8	14.1	
4	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.6	5.5	6.2	7.0	7.8	8.8	9.4	10.7	12.5	14.9	
5	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.8	5.8	6.6	7.5	8.4	9.4	10.0	11.4	13.2	15.7	
6	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.0	4.9	6.0	7.0	7.9	8.9	10.1	10.7	12.1	14.0	16.6	
7	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.1	5.0	6.2	7.3	8.4	9.5	10.7	11.4	12.9	14.9	17.5	
8	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.2	5.2	6.4	7.7	8.9	10.1	11.5	12.2	13.7	15.8	18.5	
9	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.3	6.6	7.9	9.3	10.7	12.3	13.0	14.6	16.7	19.5	
10	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.2	5.3	6.7	8.2	9.7	11.4	13.0	13.9	15.5	17.6	20.7	
11	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.4	6.9	8.4	10.1	11.9	13.8	14.7	16.5	18.9	21.9	
12	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.4	7.0	8.6	10.4	12.5	14.5	15.6	17.6	20.0	23.1	
13	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.9	3.9	5.4	7.1	8.9	10.7	13.0	15.3	16.4	18.7	21.3	24.5	
14	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	7.1	8.9	11.0	13.4	16.0	17.4	19.7	22.6	26.0	
15	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	7.1	9.1	11.2	13.8	16.7	18.2	20.8	24.0	27.5	
16	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	5.0	7.1	9.2	11.4	14.1	17.3	18.9	22.0	25.4	29.2	
17	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.2	11.6	14.4	17.9	19.6	23.1	26.7	30.9	35.9	
18	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.7	6.7	9.2	11.7	14.7	18.3	20.3	24.0	28.2	32.7	37.7	
19	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.5	6.5	9.0	11.8	15.0	18.7	20.9	25.0	29.7	34.4	39.9	
20	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.3	8.8	11.8	15.2	19.1	21.3	25.8	31.0	36.2	42.2	
21	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.4	6.2	8.5	11.7	15.4	19.5	21.8	26.6	32.2	38.1	44.6	
22	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	6.0	8.3	11.5	15.4	19.8	22.7	27.2	33.4	40.0	47.1	
23	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.9	8.1	11.1	15.4	20.0	22.6	27.8	34.4	41.6	49.0	
24	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.8	7.9	10.8	15.2	20.3	22.9	28.4	35.3	43.1	51.4	
25	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	3.9	5.6	7.5	10.6	14.9	20.3	23.1	28.0	36.2	44.6	53.9	
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.7	13.4	18.9	22.6	27.8	34.4	41.6	49.9	59.2	
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.7	13.4	18.9	22.6	27.8	34.4	41.6	49.9	59.2	
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.1	9.9	13.7	19.5	23.0	28.1	35.3	43.1	51.4	61.4	
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.1	9.9	13.7	19.5	23.0	28.1	35.3	43.1	51.4	61.4	
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.7	12.3	17.3	20.9	25.9	32.9	40.9	49.9	59.2	

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 59 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, M7															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.5
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.8	2.5
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.8	2.5
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.7
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.2	2.8
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8

T E M P E R A T U R E , ° F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 60 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, HZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1600	2000	2500	3150	4000	5000	6300	8000	10000		
1	0-1	0-1	0-1	0-1	0-2	0-3	0-4	0-4	0-6	0-8	1-1	1-5	1-9	2-4	3-0	3-5	4-1	4-7	5-2	5-8	6-5	7-4	7-9	9-1	10-7	12-9
2	0-1	0-1	0-1	0-2	0-3	0-4	0-4	0-6	0-8	1-0	1-5	1-9	2-4	3-0	3-7	4-3	5-0	5-6	6-2	7-0	7-9	8-4	9-6	11-3	13-6	
3	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-7	1-0	1-4	1-9	2-5	3-1	3-8	4-5	5-3	6-0	6-7	7-4	8-4	9-0	10-2	12-0	14-3		
4	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-7	1-0	1-4	1-9	2-5	3-2	3-9	4-7	5-6	6-3	7-1	8-0	9-0	9-6	10-9	12-7	15-1		
5	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-7	1-0	1-3	1-9	2-5	3-2	4-0	4-8	5-8	6-7	7-6	8-5	9-6	10-2	11-6	13-4	15-9		
6	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-7	1-0	1-3	1-8	2-5	3-3	4-0	5-0	6-1	7-1	8-1	9-1	10-3	10-9	12-3	14-2	16-8		
7	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-9	1-3	1-7	2-4	3-3	4-1	5-1	6-3	7-4	8-5	9-7	10-9	11-6	13-1	15-1	17-8		
8	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-9	1-2	1-7	2-3	3-3	4-2	5-2	6-5	7-7	9-0	10-3	11-7	12-4	13-9	16-0	18-8		
9	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-2	1-6	2-3	3-2	4-2	5-3	6-6	8-0	9-5	10-9	12-5	13-2	14-8	17-0	19-6		
10	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-1	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
11	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
12	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
13	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
14	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
15	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
16	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
17	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
18	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
19	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
20	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
21	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
22	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
23	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
24	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
25	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
26	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
27	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
28	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
29	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
30	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
31	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
32	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
33	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
34	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
35	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
36	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
37	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
38	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
39	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
40	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
41	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
42	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
43	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
44	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
45	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
46	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
47	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
48	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
49	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		
50	0-1	0-1	0-1	0-2	0-3	0-4	0-5	0-6	0-8	1-1	1-5	2-1	3-0	4-1	5-4	6-9	8-4	10-2	12-1	14-0	15-8	17-9	20-4	23-5		

TEMPERATURE, °F

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 60 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ																								
		50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	
51	V	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.6	5.1	7.3	10.7	12.9	18.2	26.4	38.2	
52	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.6	3.5	4.9	7.1	10.4	12.6	17.7	25.8	37.3	
53	63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5	3.4	4.8	6.9	10.1	12.2	17.2	25.2	36.5	
54	80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5	3.4	4.7	6.7	9.8	11.9	16.8	24.6	35.7	
55	100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.3	4.6	6.6	9.6	11.6	16.5	23.9	34.9	
56	125	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.3	4.5	6.4	9.3	11.3	16.1	23.3	34.2	
57	160	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.3	4.5	6.3	9.1	10.9	15.6	22.8	33.3	
58	200	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.8	2.4	3.3	4.4	6.2	8.9	10.7	15.2	22.3	32.5	
59	250	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.8	2.4	3.3	4.3	6.1	8.7	10.4	14.8	21.8	31.7	
60	315	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.2	4.3	6.0	8.5	10.2	14.4	21.3	31.0	
61	400	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.2	4.3	5.8	8.2	9.8	13.8	20.2	29.8	
62	500	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.2	4.2	5.7	8.1	9.6	13.5	19.7	29.1	
63	630	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.2	4.2	5.7	7.9	9.4	13.2	19.2	28.4	
64	800	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.2	4.2	5.7	7.7	9.3	12.9	18.8	27.7	
65	1000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.2	5.7	7.8	9.3	12.9	18.8	27.7	
66	1250	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.2	4.2	5.6	7.7	9.2	12.7	18.4	27.0	
67	1600	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.6	7.7	9.0	12.5	18.0	26.4	
68	2000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.6	7.6	8.9	12.3	17.7	25.8	
69	2500	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	2.1	2.7	3.4	4.2	5.6	7.6	8.9	12.1	17.4	25.3	
70	3150	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.6	7.6	8.9	12.0	17.1	24.8	
71	4000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.6	7.5	8.8	11.8	16.8	24.3	
72	5000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.4	5.6	7.5	8.8	11.7	16.6	23.9	
73	6300	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.4	5.6	7.5	8.7	11.7	16.4	23.5	
74	8000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	5.7	7.5	8.7	11.7	16.2	23.2	
75	10000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.5	5.8	7.5	8.7	11.6	16.0	22.8	
76	V	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.8	7.5	8.7	11.5	15.9	22.6	
77	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.9	7.6	8.7	11.5	15.8	22.3	
78	63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	5.9	7.7	8.7	11.5	15.8	22.0	
79	80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.0	7.8	8.8	11.5	15.7	21.8	
80	100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.8	4.7	6.1	7.9	8.9	11.5	15.7	21.7
81	125	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.3	3.0	3.8	4.8	6.1	7.9	9.0	11.5	15.6	21.6
82	160	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.0	9.1	11.6	15.6	21.6
83	200	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.2	11.7	15.6	21.5
84	250	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.0	15.6	21.3
85	315	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.1	15.8	21.3
86	400	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.5	8.4	9.6	12.2	16.0	21.3
87	500	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.1	21.3
88	630	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.3	4.1	5.2	6.7	8.6	9.8	12.5	16.3	21.4
89	800	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.4	21.6
90	1000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.4	21.6
91	1250	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.3	5.4	6.9	8.8	10.0	12.7	16.6	21.8
92	1600	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.1	12.8	16.7	22.0
93	2000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.3	5.4	6.9	8.9	10.2	12.9	16.9	22.2
94	2500	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.1	17.1	22.4
95	3150	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.2	22.7
96	4000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.4	22.9
97	5000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.2	9.3	10.6	13.5	17.6	23.1
98	6300	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.3
99	8000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.8	7.4	9.5	10.8	13.7	17.9	23.5
100	10000	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	23.7

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 61 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, Hz															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2
2	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	1.9	2.4	3.1	3.7	4.4
3	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.5
4	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.7
5	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.2	4.0	4.9
6	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.1	5.0
7	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.1	5.1	6.1
8	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.2	5.2	6.5
9	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.2	4.2	5.3
10	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.3
11	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.1	5.4
12	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	3.9	5.4
13	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3
14	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1
15	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0
16	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.5	4.8
17	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.4	4.7
18	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.6
19	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.5
20	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.4
21	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2
22	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.5	2.1	2.9	4.1
23	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9
24	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9
25	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7
26	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6
27	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4
28	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4
29	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2
30	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1
31	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1
32	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0
33	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9
34	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9
35	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7
36	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6
37	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.5
38	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4
39	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4
40	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3
41	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.2
42	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2
43	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1
44	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1
45	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0
46	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0
47	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9
48	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9
49	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9
50	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9

T E M P E R A T U R E • D E G R E E S F A H N H E I T

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 61 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.5
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	1.8	2.4
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.8	2.4
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
64	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
65	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
66	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
70	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
71	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
72	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.7
73	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8
74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
75	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8
76	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9
77	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
78	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9
79	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9
80	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0
81	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0
82	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0
83	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	3.0
84	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	3.1
85	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	3.1
86	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
87	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
88	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5
89	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
90	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6
91	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6
92	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7
95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	2.7
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.7	2.2	2.7
97	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.2	2.8
98	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.2	2.8
99	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8
100	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 62 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2
2	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.7	4.4
3	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.7	4.4
4	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.5	3.2	3.9	4.7
5	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.2	4.0	4.9
6	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.3	4.1	5.0
7	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.1	5.1
8	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.2
9	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.2	5.3
10	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.1	5.3
11	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.0	5.4
12	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.3
13	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2
14	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.7	5.1
15	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9
16	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.6
17	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.6
18	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.5
19	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.3	4.5
20	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.3
21	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1
22	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1
23	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9
24	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8
25	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.8
26	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.6	3.7
27	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5
28	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4
29	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.6	2.3	3.2
30	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0
31	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9
32	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8
33	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.4	1.9	2.7
34	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6
35	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6
36	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.5
37	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3
38	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3
39	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2
40	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1
41	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0
42	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0
43	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0
44	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0
45	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0
46	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9
47	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9
48	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9
49	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9
50	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9

T F F M P E E R A Y U R E . D E G R E E S F A H R E M N F E I T