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**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.

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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/m^3 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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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 IFREQ(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,
1.0,0.3,0.975,0.9,0.996,1.0,1.0,1.1,0.97,1.2,0.9,1.3,0.84,1.5,0.75,
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,
33.6,0.3,4.15,0.26,4.45,0.245,4.80,0.23,5.25,0.22,5.7,0.21,6.05,
60.205,6.5,0.2,7.0,0.2,10.0,0.2/
DATA IFREQ/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 ME,1MR,1MA,1MT,1MU,1MH,1ME,1H,,1H ,1MJ,1ME,1MG,1MP,
2 ME,1ME,1MS,1H ,1MF,1MA,1MH,1HP,1ME,1MY,1HH,1ME,1MI,
3 MT,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H /
55 FUJMAT(1M1, 27X,'ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 100
LB FT FOR FULL OCTAVE BANDS',/30X,'OF NOISE AS A FUNCTION OF TEMPER
2ATURE FOP',14,' PERCENT RELATIVE HUMIDITY')
60 FORMAT(1MD,21X,'BAND CENTER FREQUENCY, HZ',36X,'BAND CENTER FREQUE
NCY, MZ')
65 FORMAT(1H ,8X,816,13X,816/)
70 FORMAT(1H ,3X,A1,I3,1X,MF6.1,8X,A1,I3,1X,MF6.1)
NN=29
DC 180 IPW=1,100
RELHUM=IRH
DO 160 K=1,100
TEMP=M
B = 1.97274664 - 0.02288074 * TEMP + 0.00009589 * TEMP ** 2 - 0.00000003 * TEMP ** 3
ABSHUM = 10.0 ** (ALOG10(RELHUM) - R)
DO 150 J=1,8
MMOLMX(J,K)=10.3**((ALOG10(FREQ(I))-0.00469333)*TEMP-2.4215)
AMOLMX(J,<)=(FREQ(I)/ 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)=TABLE(I-1)*(XA1/XO1)*(XA2/XO2)-
TABLE(I+1)*(XA0/XO1)*(XA2/XI2)+
TABLE(I+3)*(XA0/XO2)*(XA1/XI2)
GO TO 140
130 ALPRAT(J,K) = TABL(E)L)
140 CONTINUE
ALPMOL(J,<) = ALPRAT(J,K) * AMOLMX(J,K)
ALPCLA(J,<)=10.3**(2.35*ALOG10(FREQ(I))/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(I),J=1,8),(IFRQ(I),J=1,8)
DO 170 K=1,50
ITEMP1 = K
ITEMP2 = K+50
170 WRITE(6,70) DEGRFF(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

```
C C C C  
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 IFREQ(24),FREQ(24),DEGREE(100),TABLE(9)  
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,  
1.0,0.8,0.975,0.9,0.996,1.0,1.0,1.1,0.97,1.2,0.9,1.3,0.84,1.5,0.75,  
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,  
33.6,0.3,4.15,0.26,4.45,0.245,4.80,0.23,5.25,0.22,5.7,0.21,6.05,  
40.205,6.5,0.2,7.0,0.2,10.0,0.2/  
DATA IFREQ/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,  
400.0,500.0,630.0,800.0,1000.0,1250.0,1600.0,2000.0,  
2500.0,3150.0,4000.0,4500.0,5600.0,7100.0,9000.0/  
DATA DEGREE/1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1MT,1ME,1MH,1MP,  
1 ME,1MR,1MA,1MT,1MU,1MF,1M ,1M ,1MD,1ME,1MG,1MO,  
2 ME,1MS,1M ,1MF,1MA,1MH,1MR,1ME,1MN,1MM,1ME,1MI,  
3 MT,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,  
4 M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,  
5 ME,1MR,1MA,1MT,1MJ,1MR,1ME,1M ,1M ,1MD,1ME,1MG,1MR,  
6 ME,1ME,1MS,1M ,1MF,1MA,1MH,1MP,1MY,1MZ,1ME,1MI,  
7 MT,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M ,1M /  
350 FORMAT(1ML, 3OX,'ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 10  
AUG FT FOR ONE-THIRD OCTAVES,/29X,BANDS OF NOISE AS A FUNCTION OF  
TEMPERATURE FOR',I4,' PERCENT RELATIVE HUMIDITY')  
351 FORMAT(1HO,54X'BAND CENTER FREQUENCY, HZ')  
352 FORMAT(1M ,6X,23I5,I6,/) )  
353 FORMAT(1M ,A1,15,23F5.1,F6.1)  
NN=29  
DO 300 I=M+1,M+100  
RELHUM=IRM  
DO 200 K=1,120  
TEMP=K  
R =1.97274664 - 0.02288074 * TEMP + 0.00009589 * TEMP**2 - 0.0000003 * TEMP**3  
ABSMU = 10.0 ** ((LOGIO(RELHUM) - S)  
DO 200 J=1,24  
AMOLMX(J,K)=10.0**(ALOGL(FREQ(I))) + 0.00668333 * TEMP - 2.4215)  
HMOLMX(J,K)=(FREQ(I)/1010.0)**0.5  
MMURAT(J,K)=ABS(MU/HMOLMX(J,K))  
L=3  
IF(MMURAT(J,K).LE.TABLE(2))GO TO 130  
60 DO 90 I=4,58.2  
L=L+1  
80 IF(TABLE(L)-MMURAT(J,K))90,130,110  
90 CONTINUE  
GO TO 130  
110 L=L-2  
IF(LGE.4)GO TO 120  
L=L+2  
120 XA1=MMURAT(J,K)-TABLE(L)  
XA0=MMURAT(J,K)-TABLE(L-2)  
XA2=MMURAT(J,K)-TABLE(L+2)  
XO1=TABLE(L-2)-TABLE(L)  
XO2=TABLE(L-2)-TABLE(L+2)  
XI2=TABLE(L)-TABLE(L+2)  
ALPRAT(J,K)=TABLE(L-1)*(XA1/XO1)+(XA2/XO2)+  
1 TABLE(L-1)*(XA0/XO1)+(XA2/XI2)+  
2 TABLE(L+3)-(XA0/XO2)-(XA1/XI2)  
GO TO 140  
130 ALPRAT(J,K)=TABLE(L)  
140 CONTINUE  
ALPMOL(J,K)=ALPRAT(J,K)*AMOLMX(J,K)  
ALPCLA(J,K)=10.0*(2.05*A LOGIO(FREQ(I)/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)(IFREQ(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)(IFREQ(J),J=1,24)  
WRITE(6,353)((DEGREE(I),I,(ALPHA(J,I),J=1,24)),I=51,100)  
300 CONTINUE  
STOP  
END
```

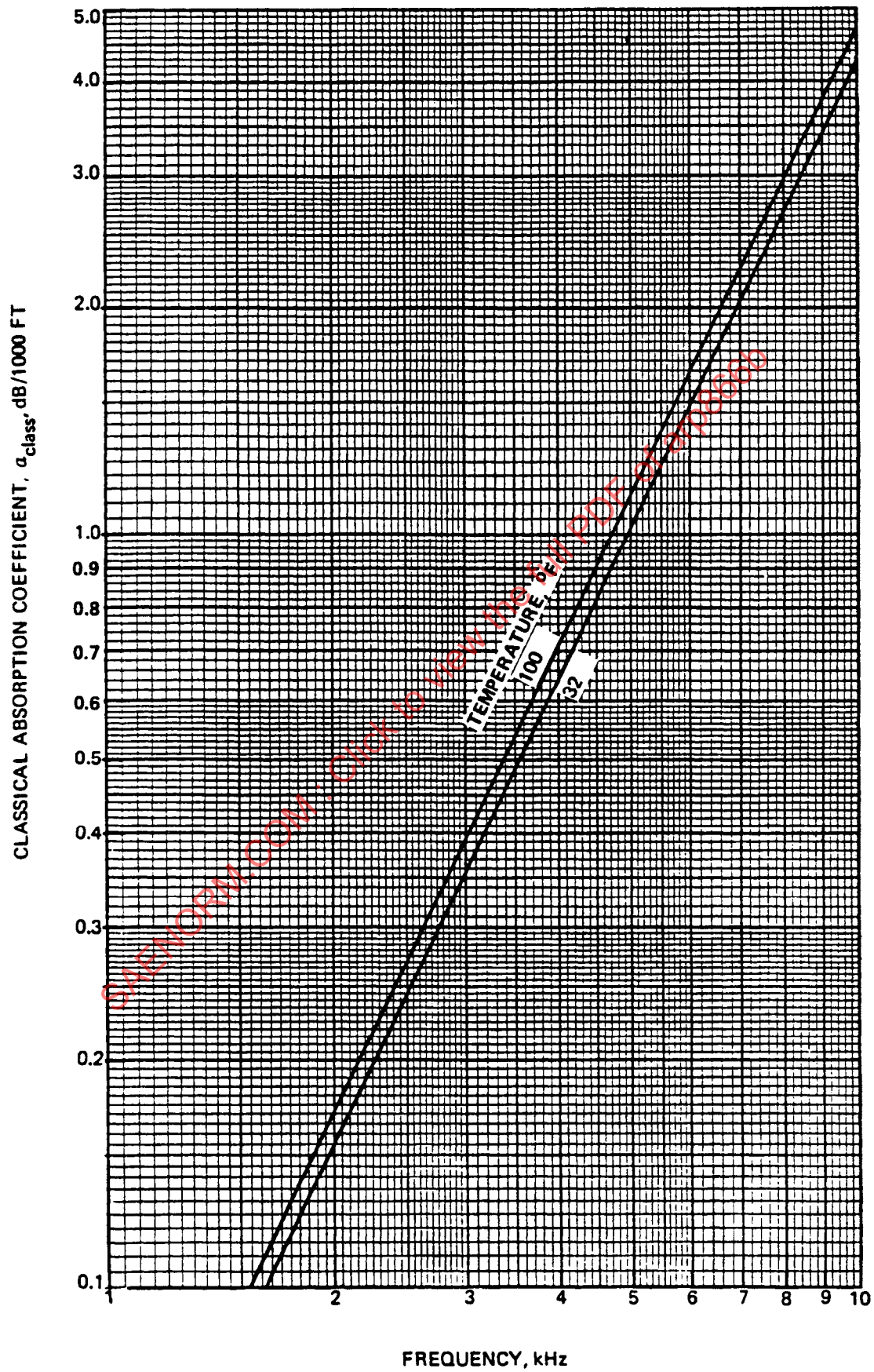


FIGURE 1. CLASSICAL ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES

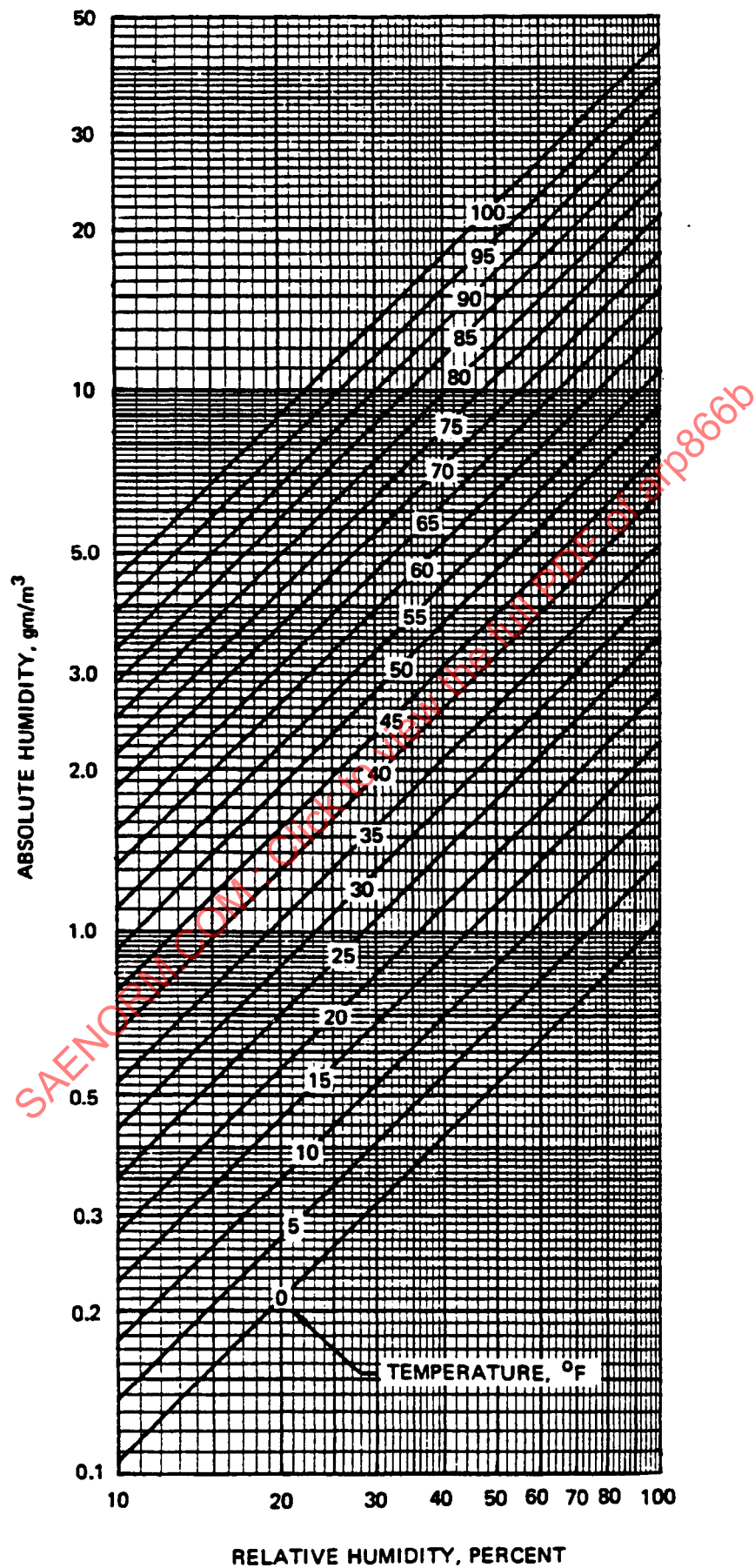


FIGURE 2. ABSOLUTE HUMIDITY AS A FUNCTION OF RELATIVE HUMIDITY FOR VARIOUS AIR TEMPERATURES

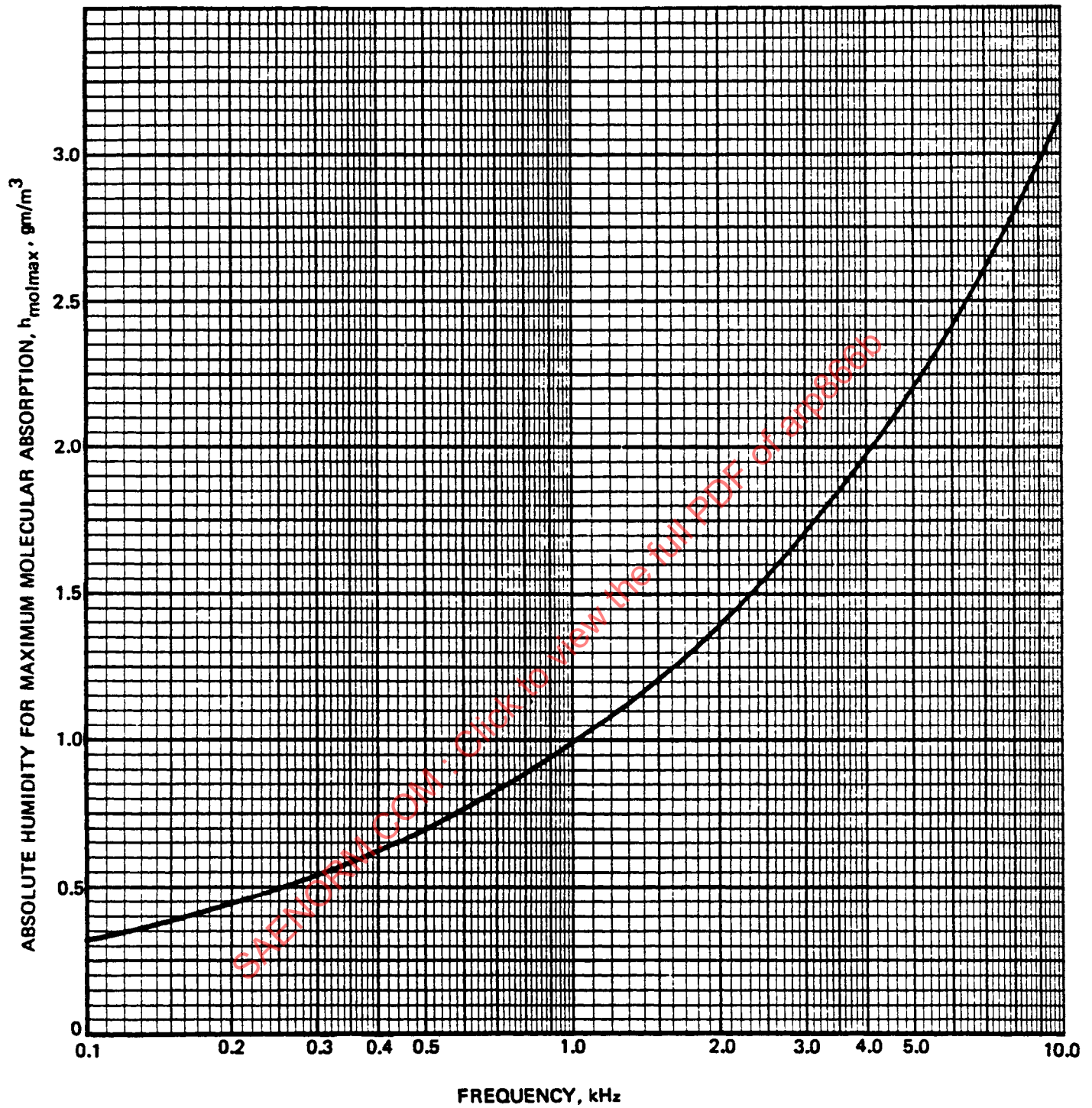


FIGURE 3. ABSOLUTE HUMIDITY FOR MAXIMUM MOLECULAR ABSORPTION AS A FUNCTION OF FREQUENCY

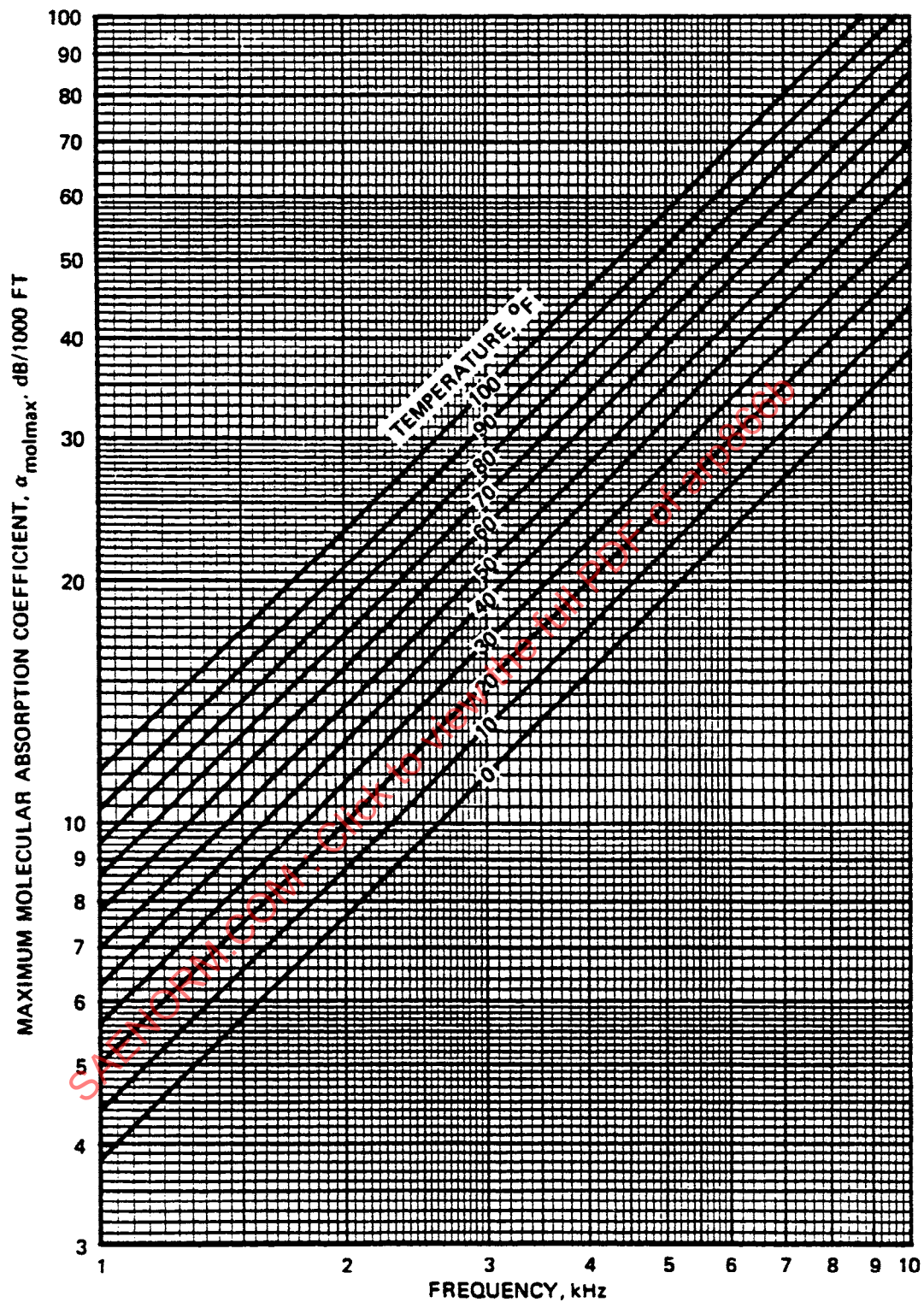


FIGURE 4. MAXIMUM MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES. (KNESER'S VALUES FROM REFERENCE 1.)

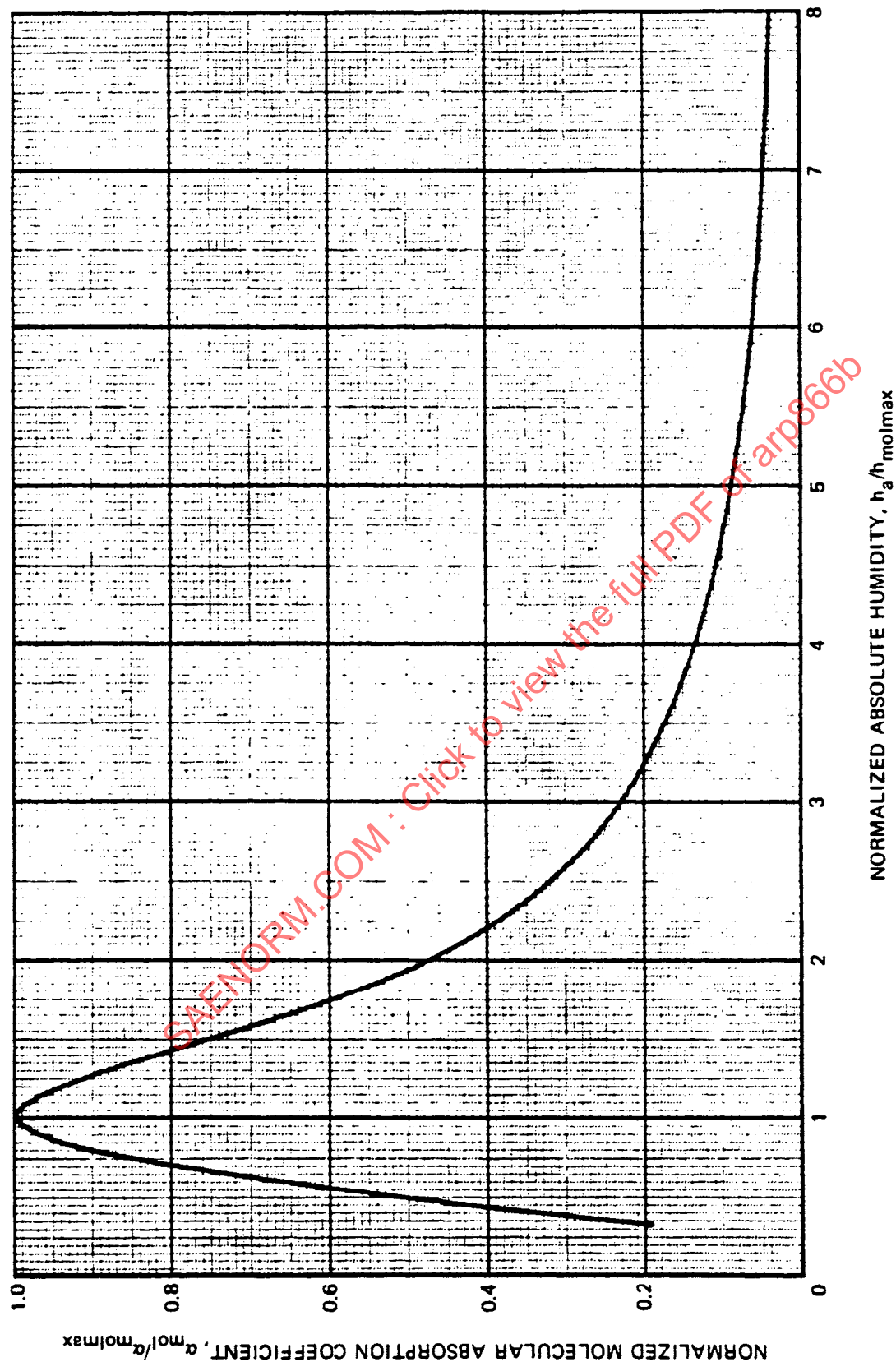


FIGURE 5. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY. (KNESER'S VALUES FROM REFERENCE 1.)

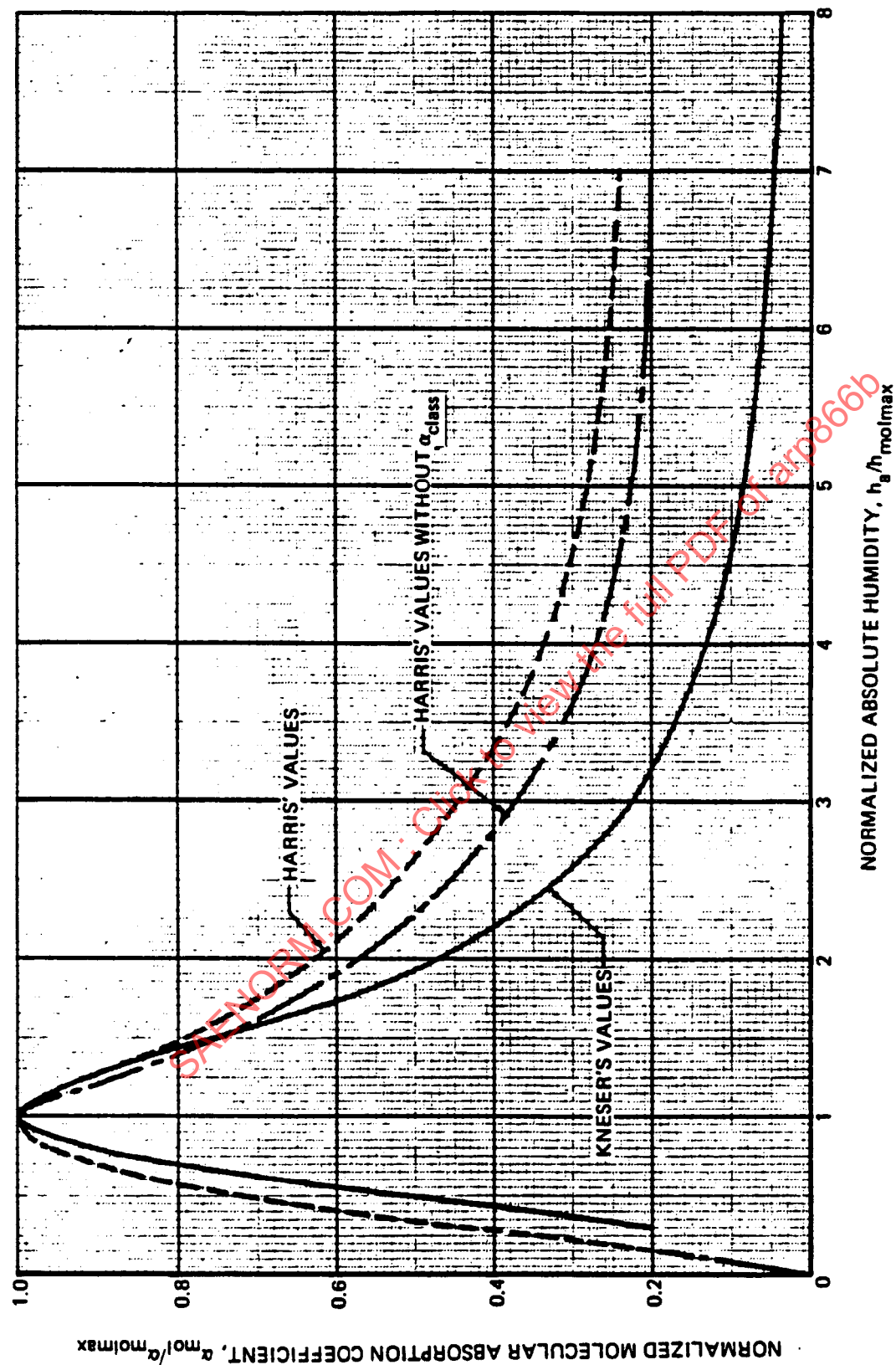


FIGURE 6. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY. (KNESER'S VALUES FROM REFERENCE 1; HARRIS' VALUES FROM REFERENCE 4.)

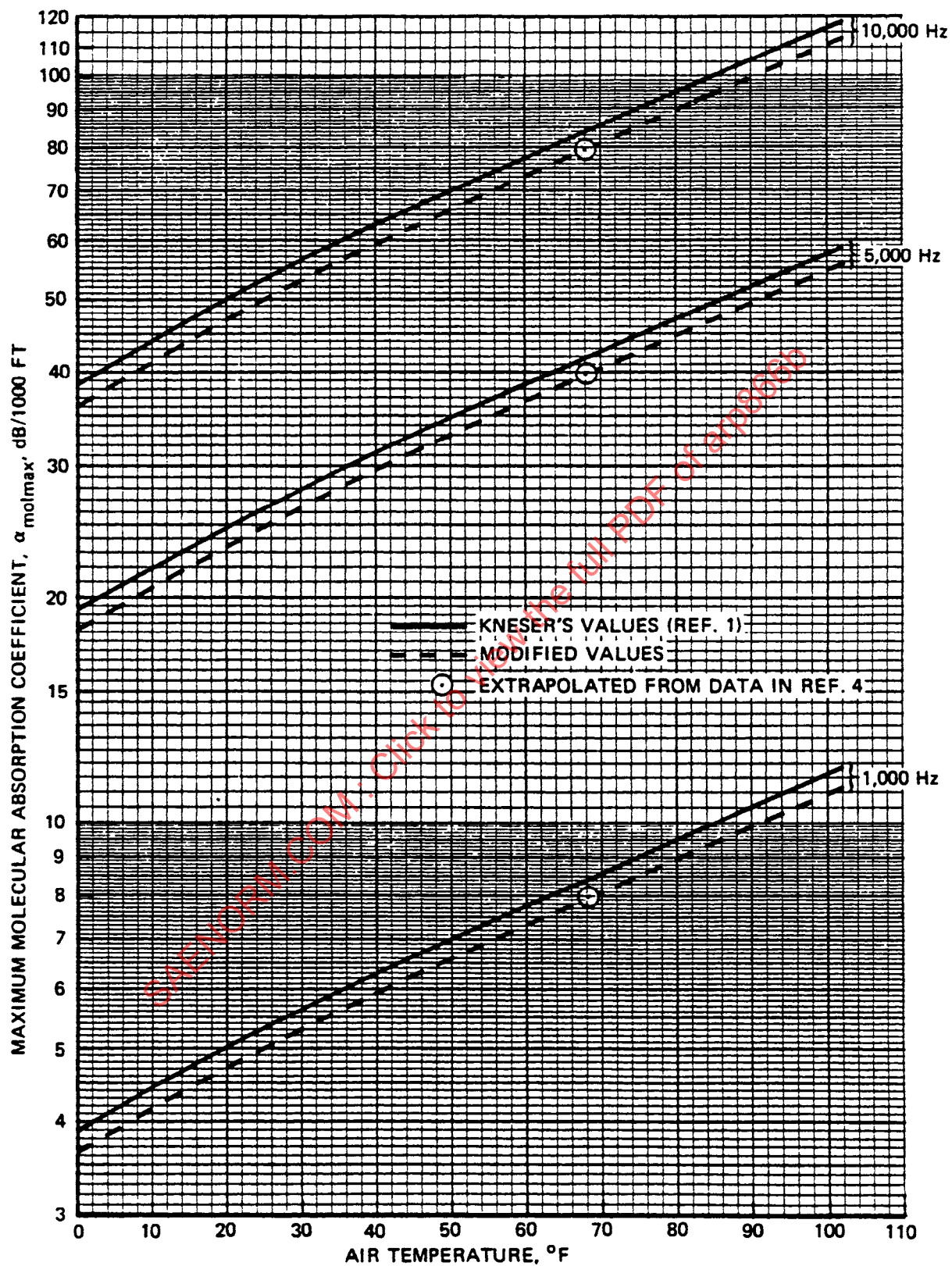


FIGURE 7. THEORETICAL AND MODIFIED MAXIMUM MOLECULAR ABSORPTION COEFFICIENTS AS A FUNCTION OF TEMPERATURE FOR THREE FREQUENCIES

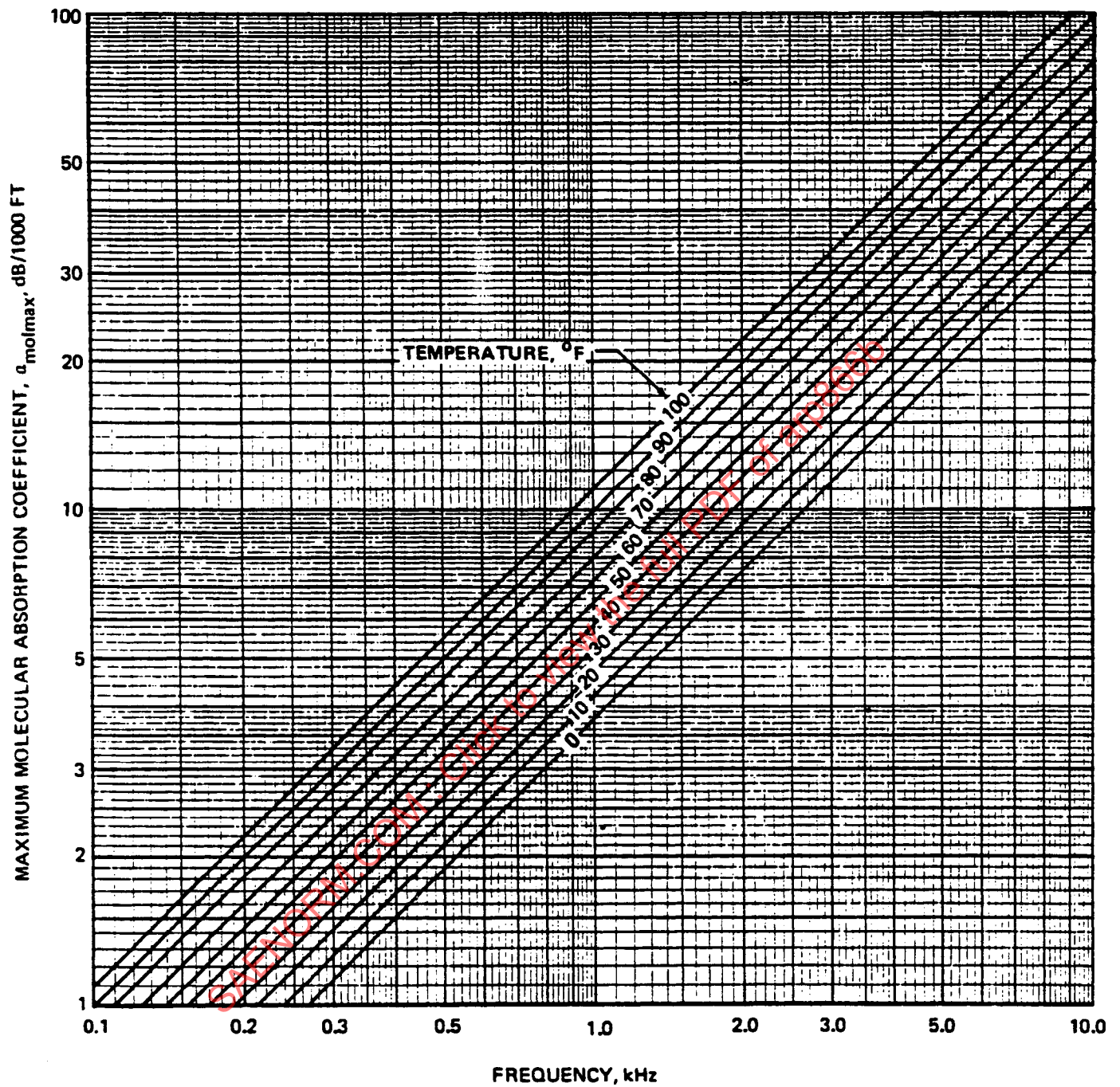


FIGURE 8. MAXIMUM MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES

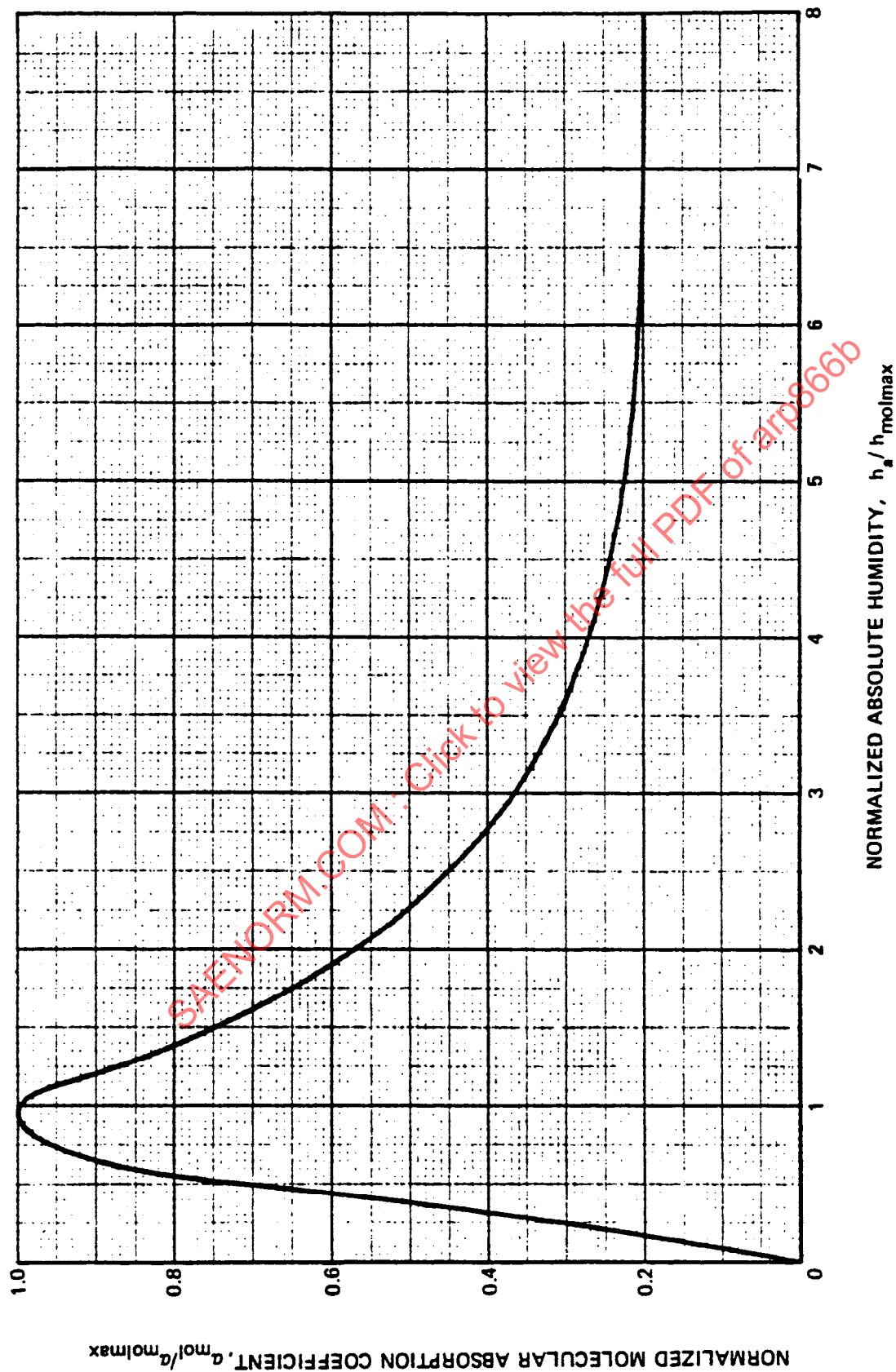


FIGURE 9. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY

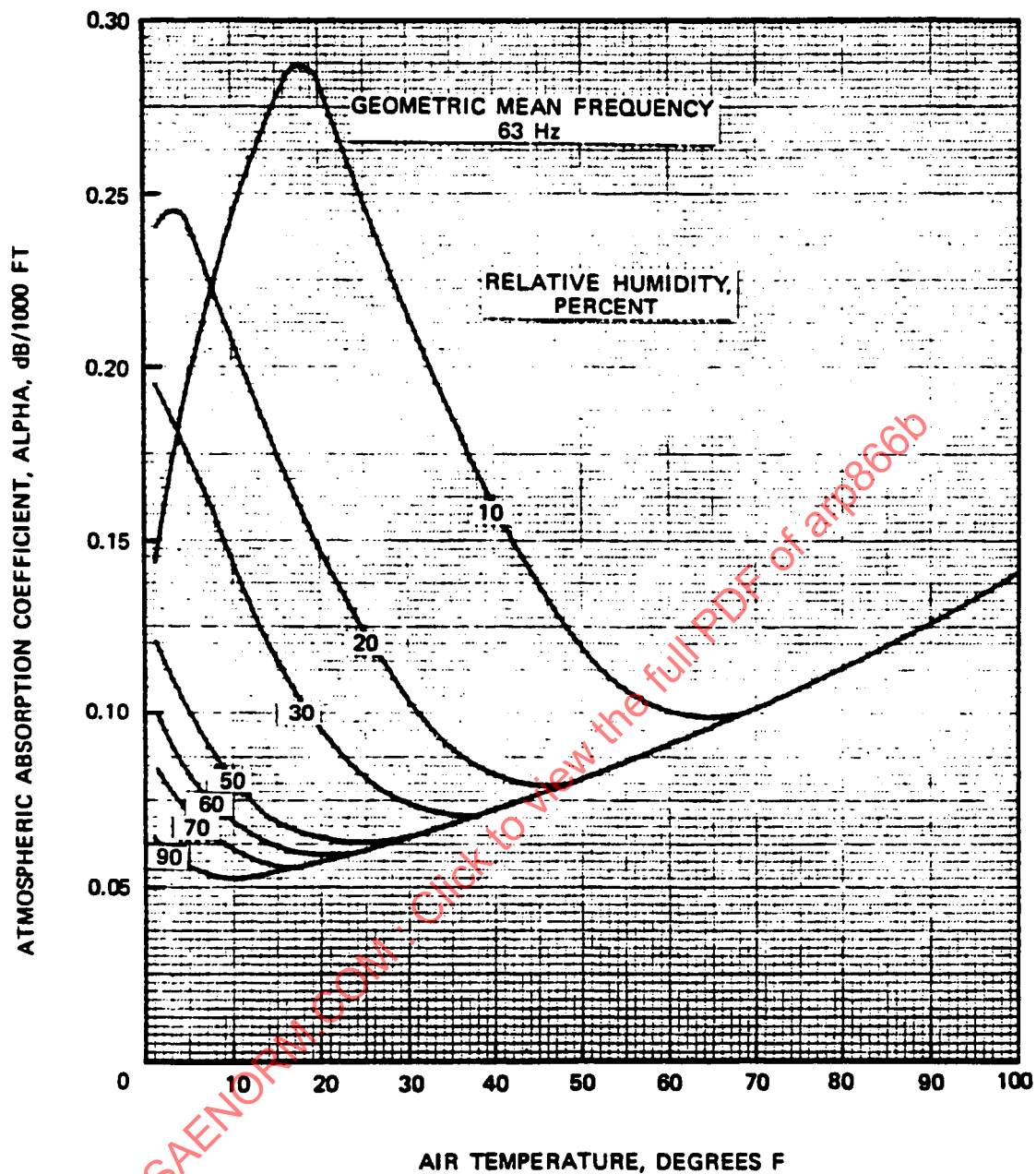


FIGURE 10. ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/1-OCTAVE BANDS OF NOISE FOR DIFFERENT TEMPERATURES AND HUMIDITIES

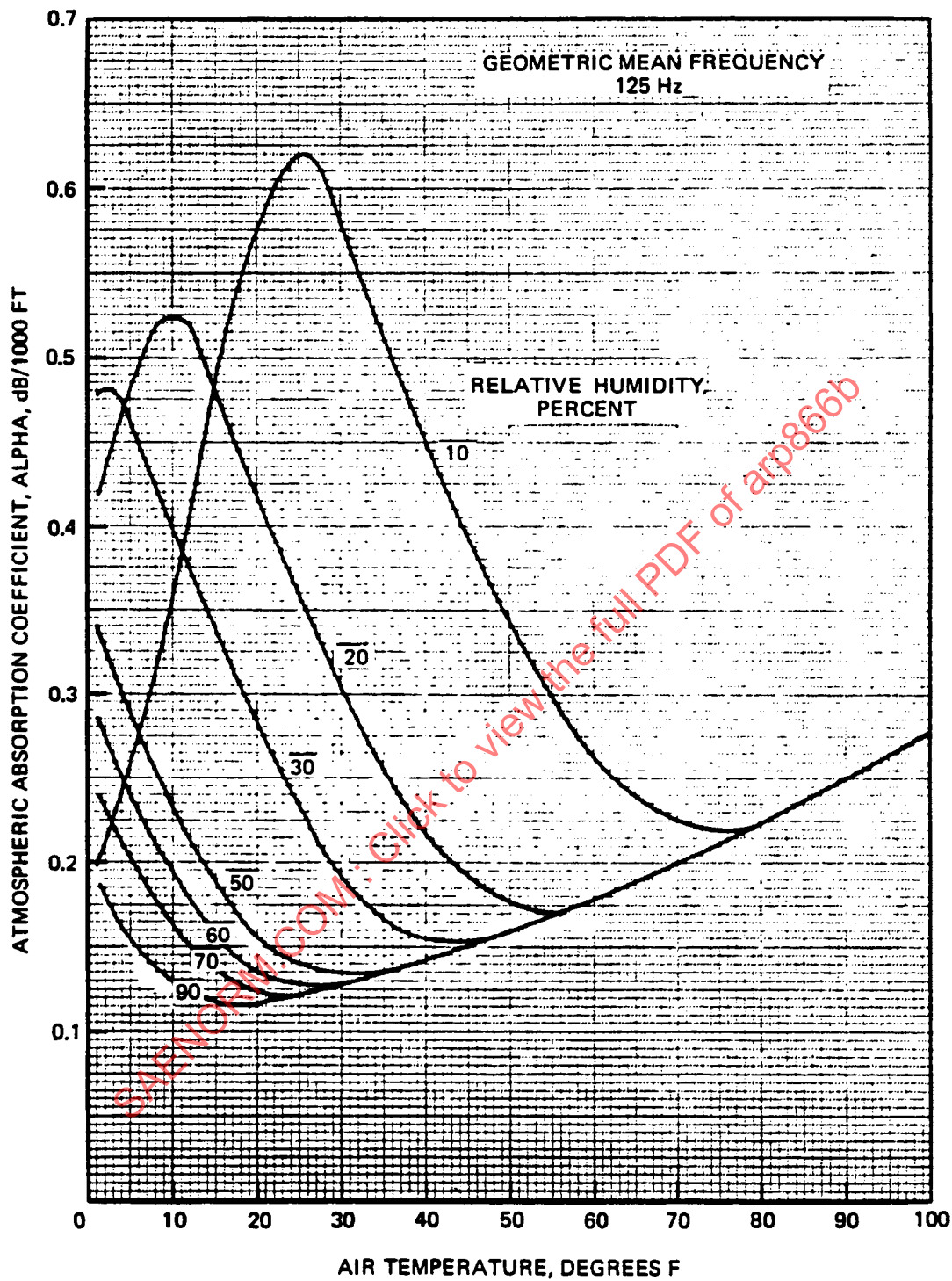


FIGURE 10. CONTINUED

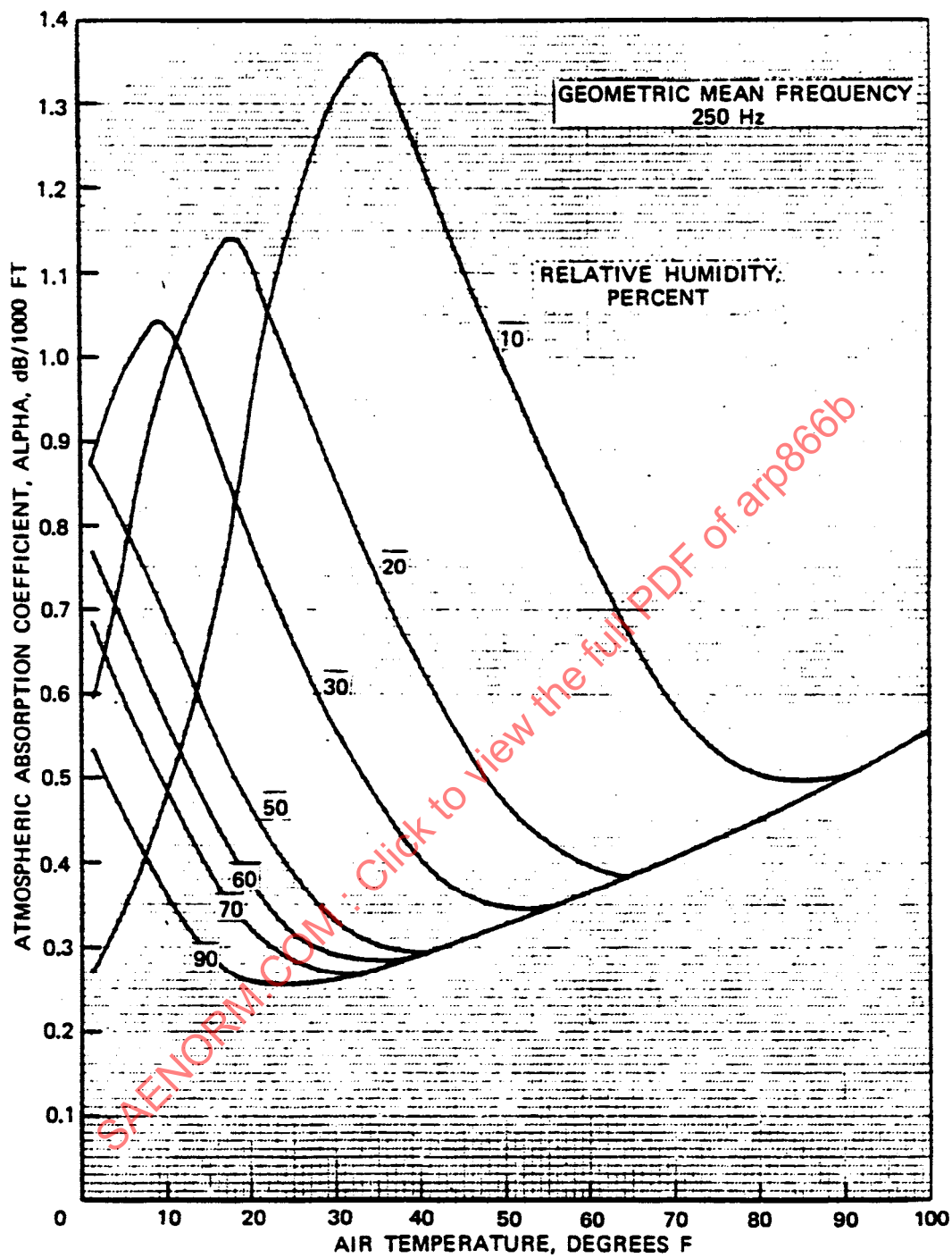


FIGURE 10. CONTINUED

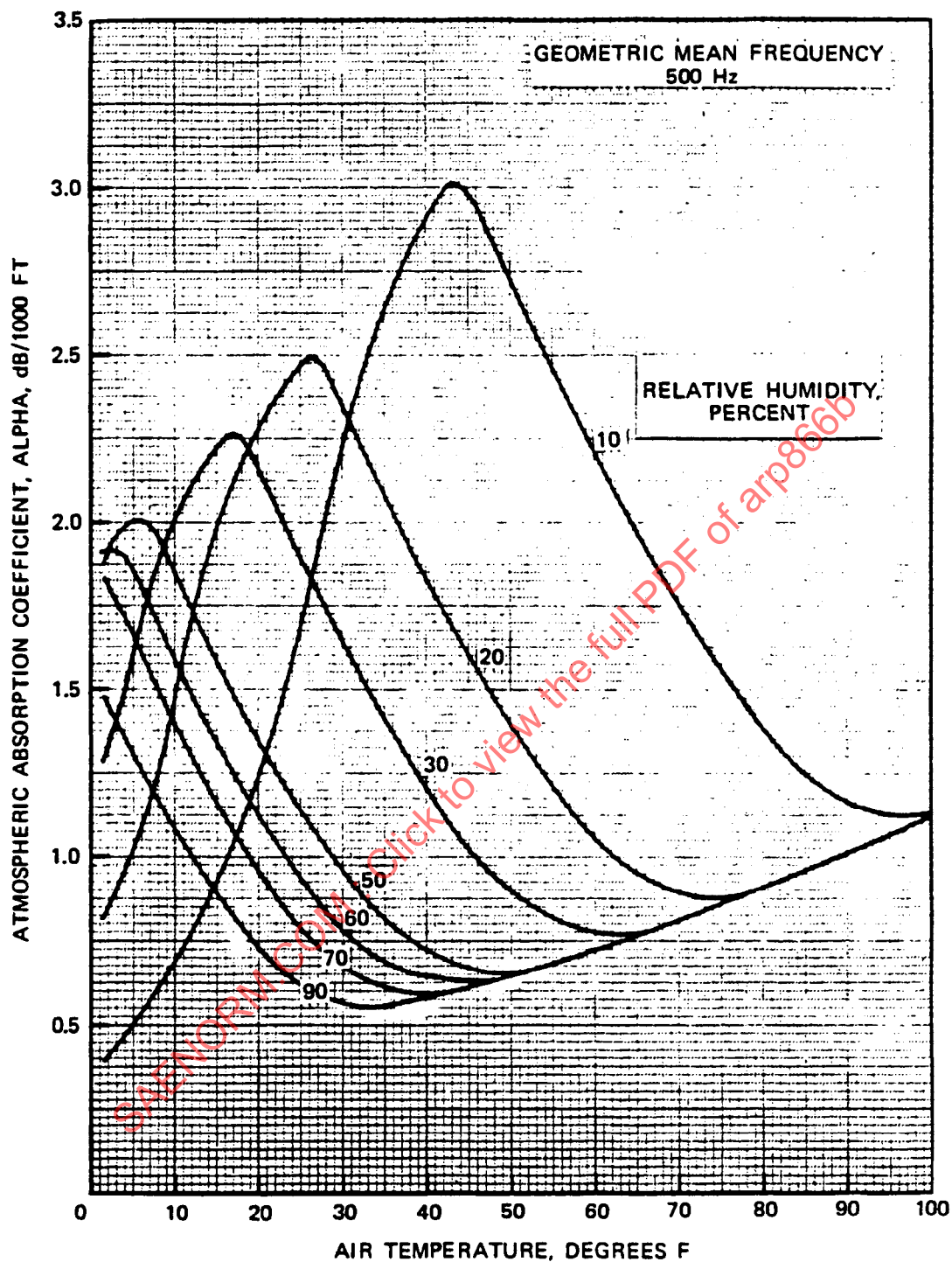


FIGURE 10. CONTINUED

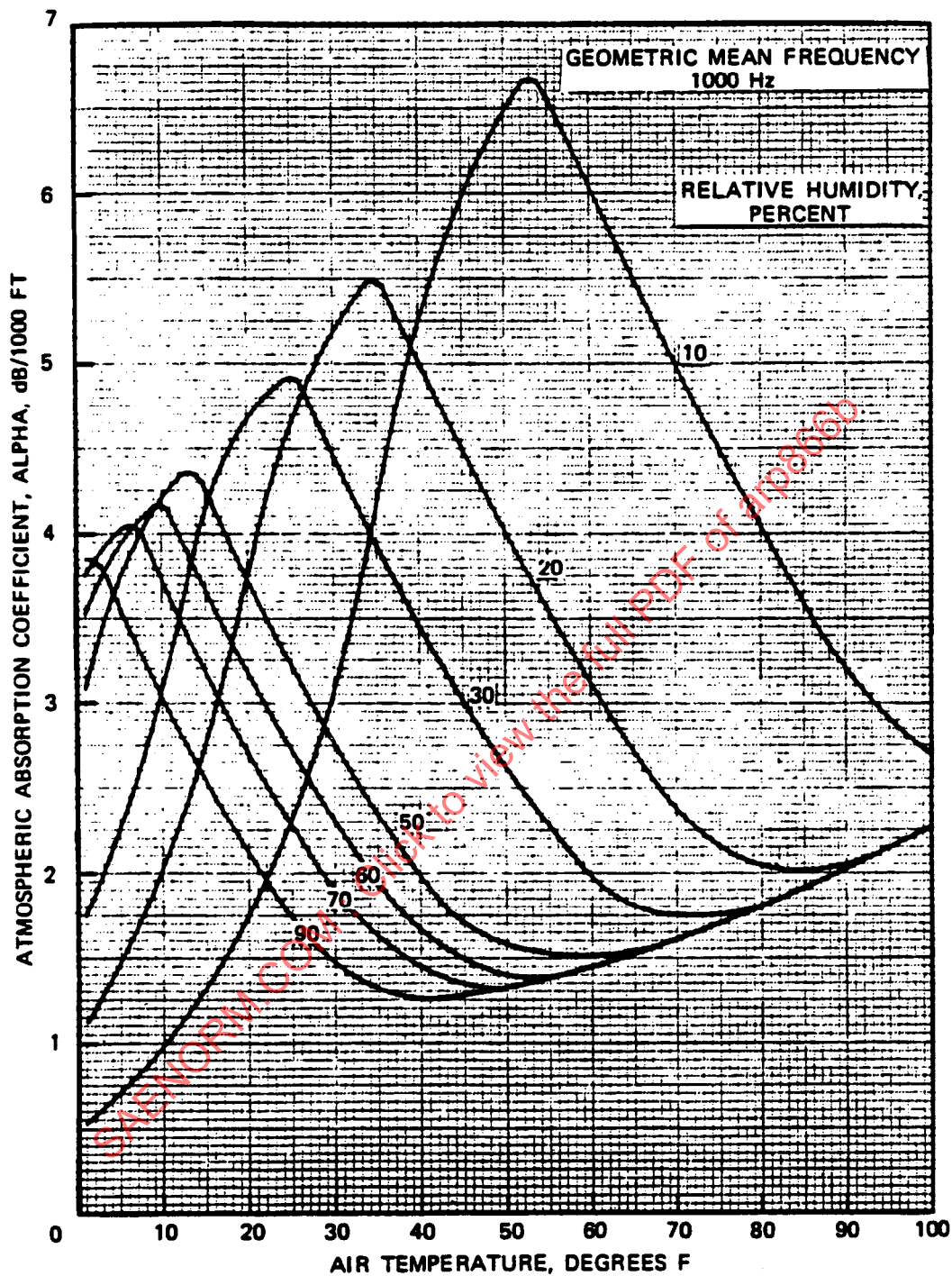


FIGURE 10. CONTINUED

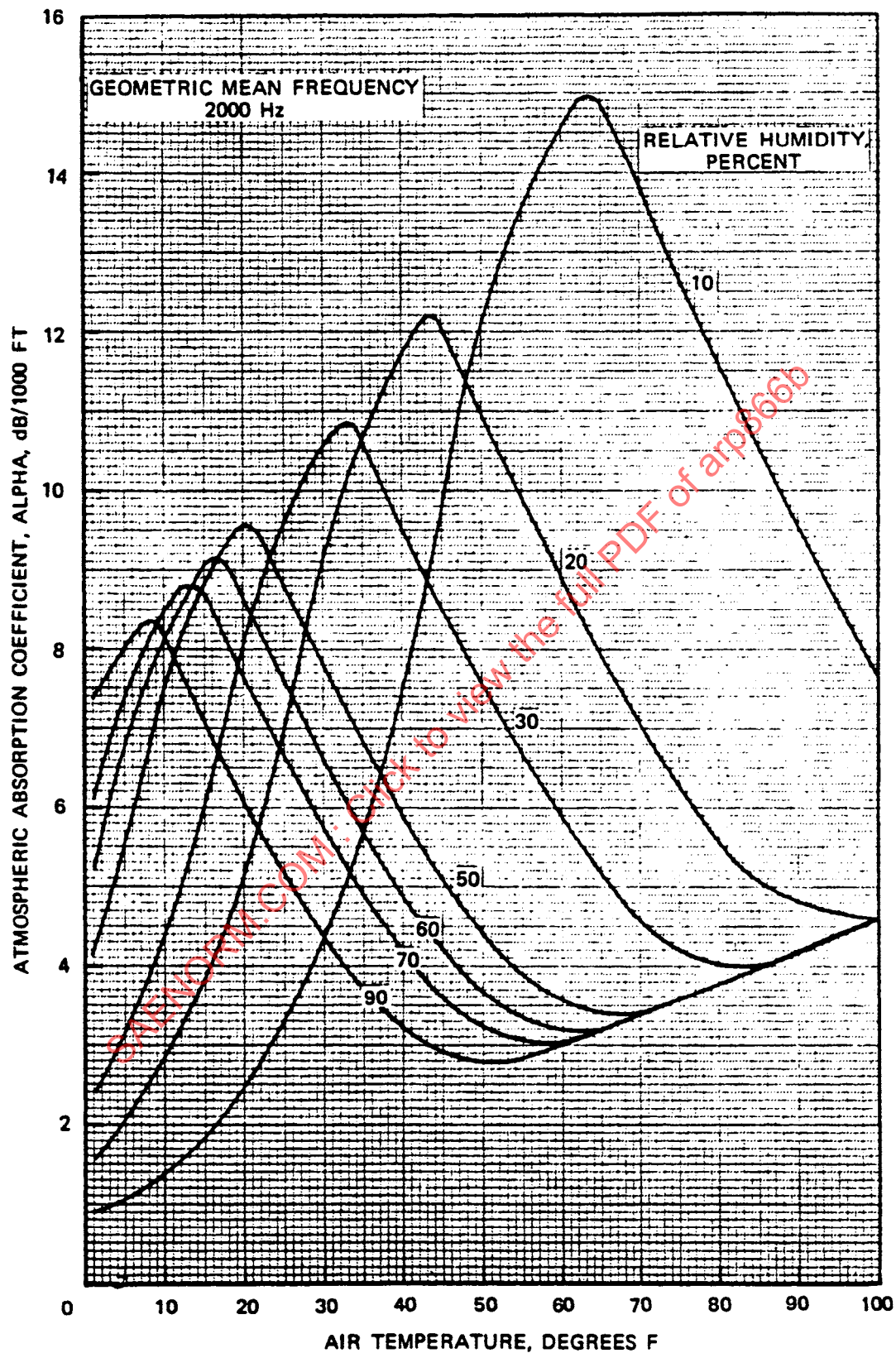


FIGURE 10. CONTINUED

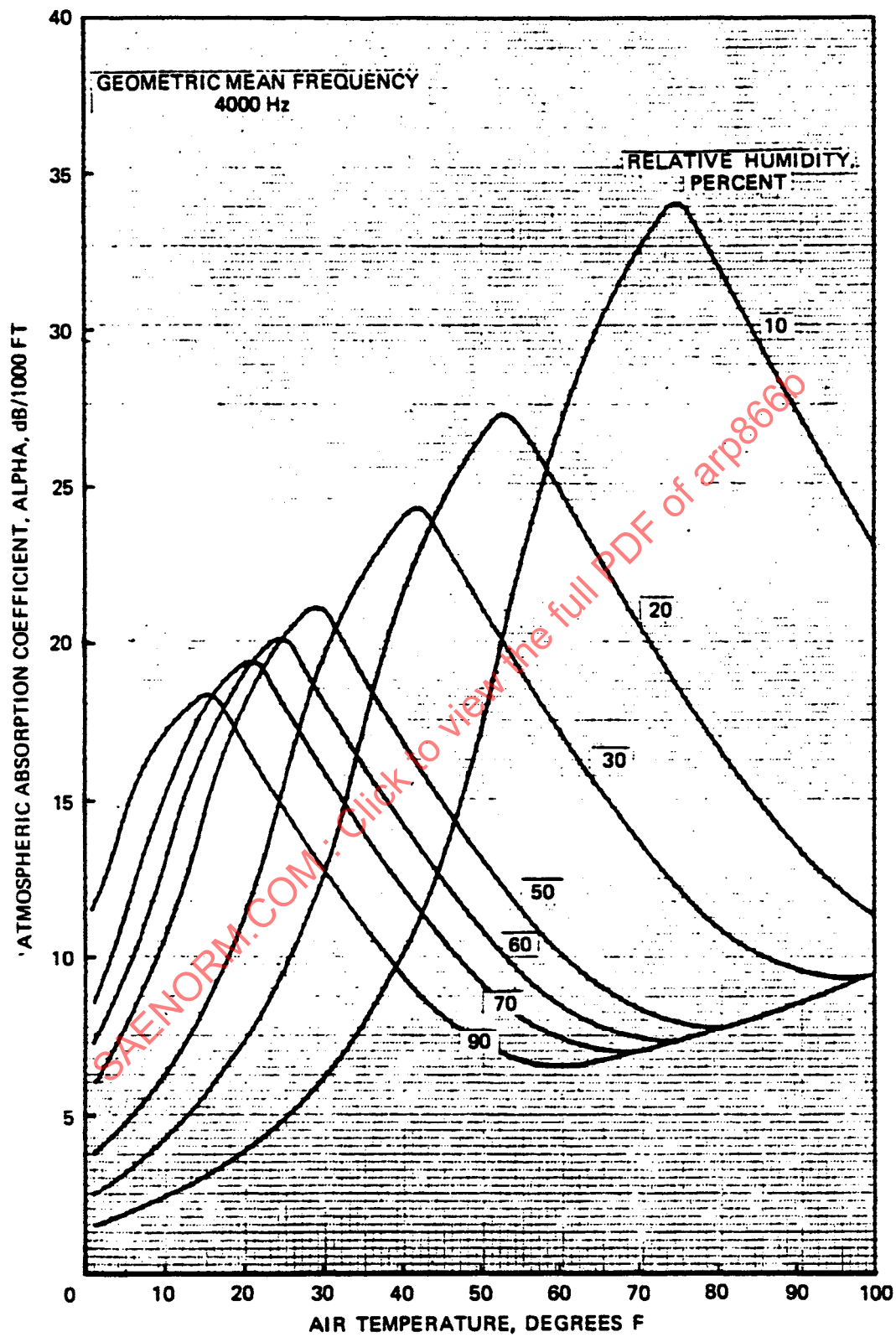
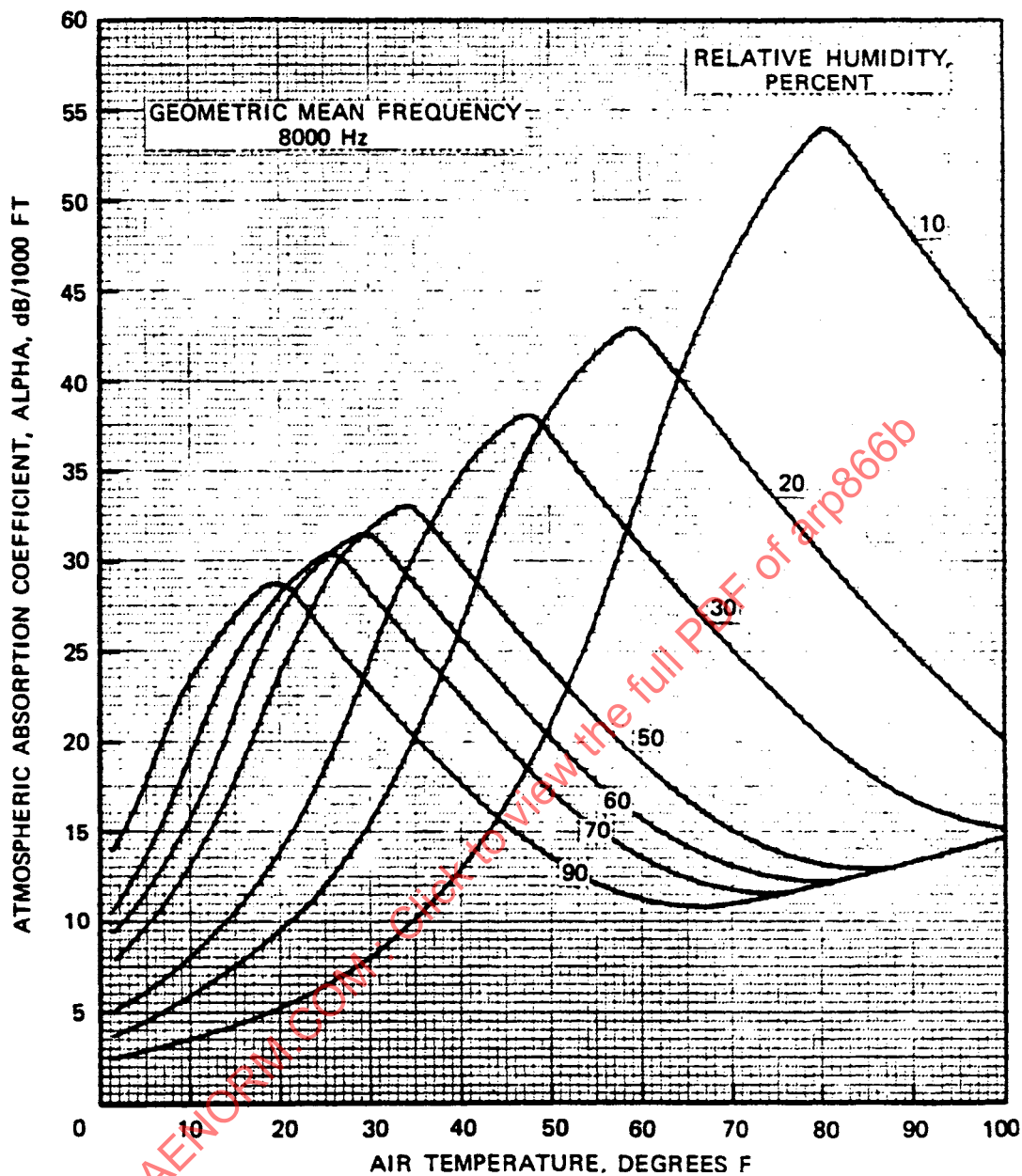


FIGURE 10. CONTINUED



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

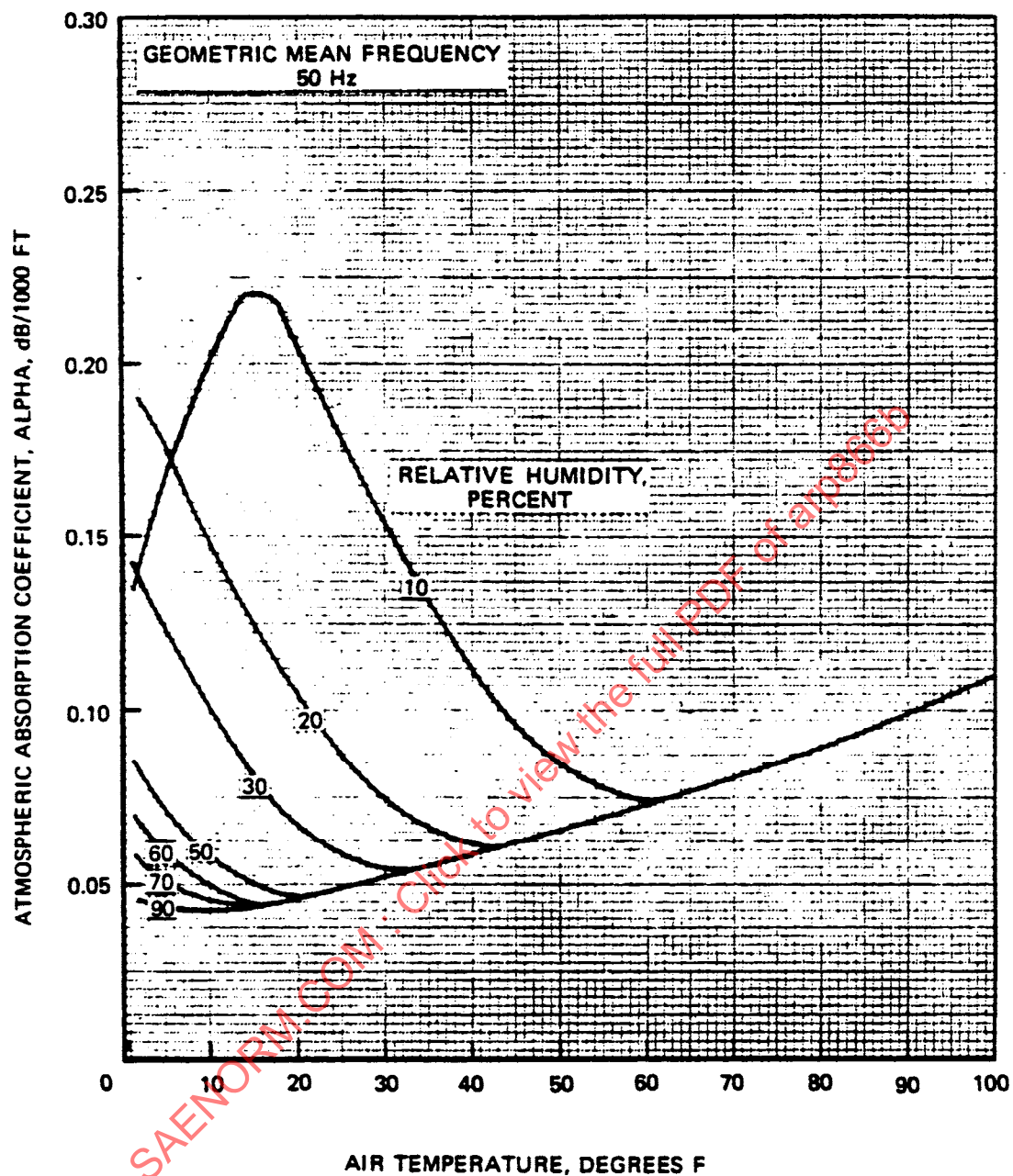


FIGURE 11. ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/3 OCTAVE BANDS OF NOISE FOR DIFFERENT TEMPERATURES AND HUMIDITIES

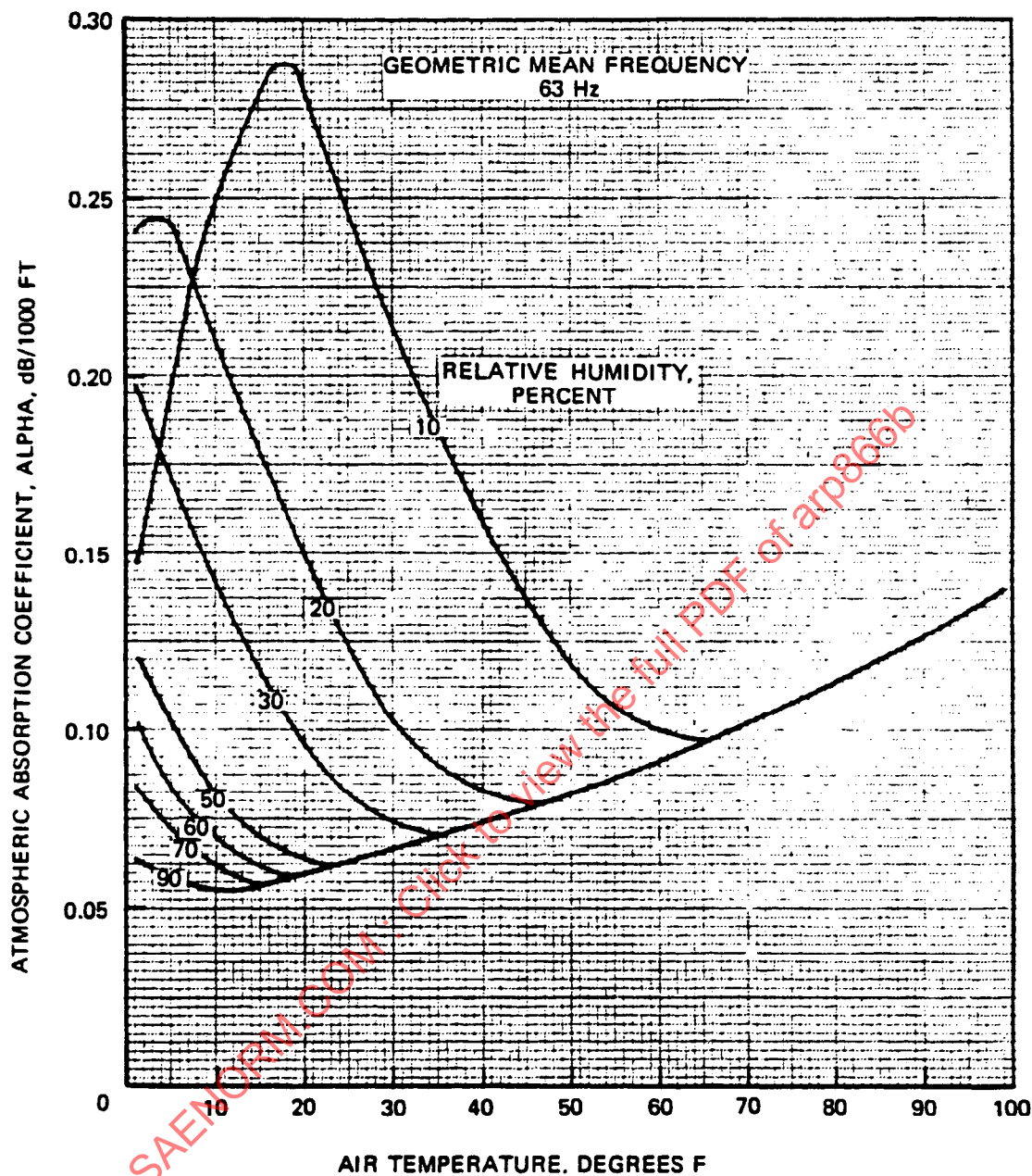


FIGURE 11. CONTINUED

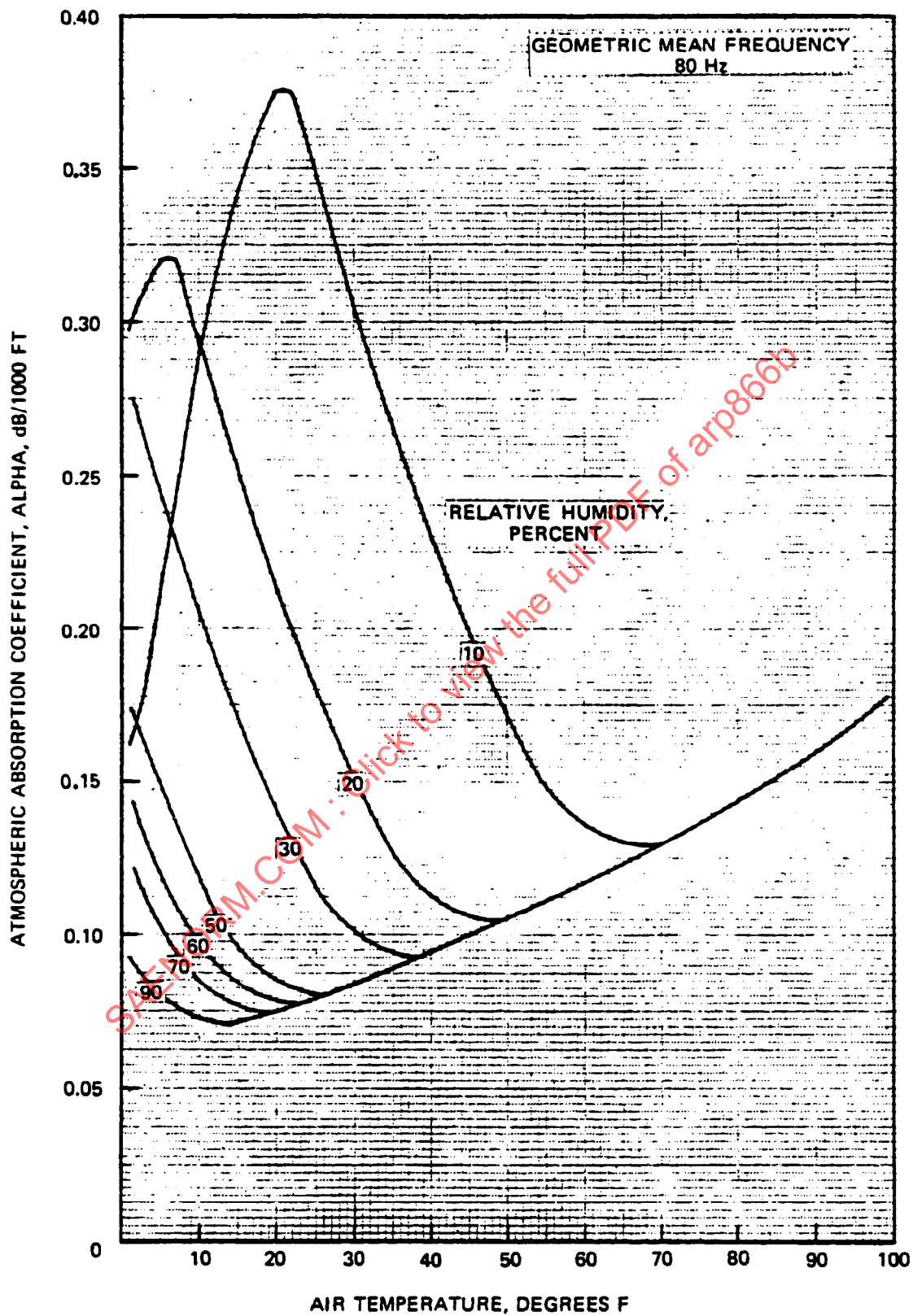


FIGURE 11. CONTINUED

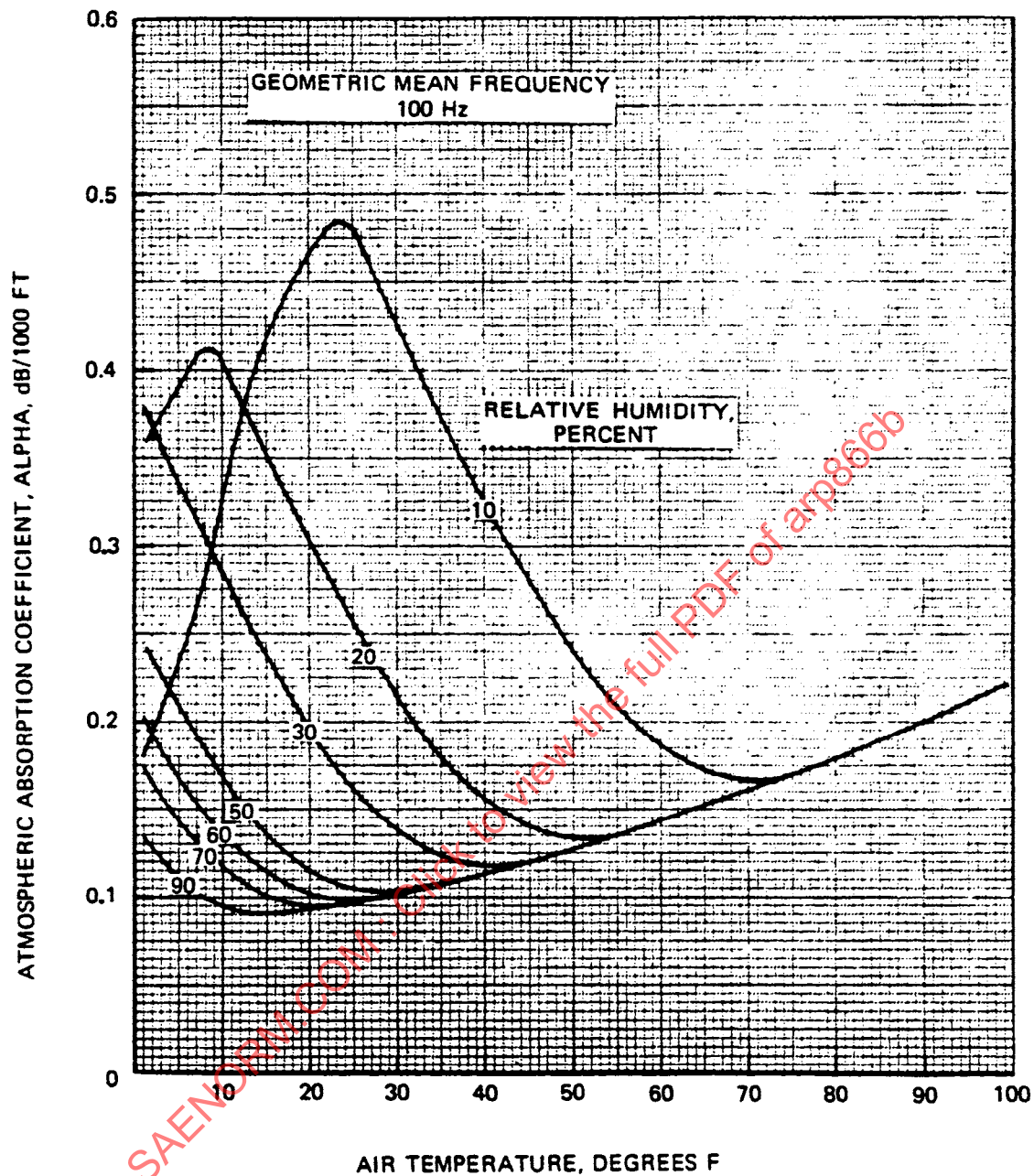


FIGURE 11. CONTINUED

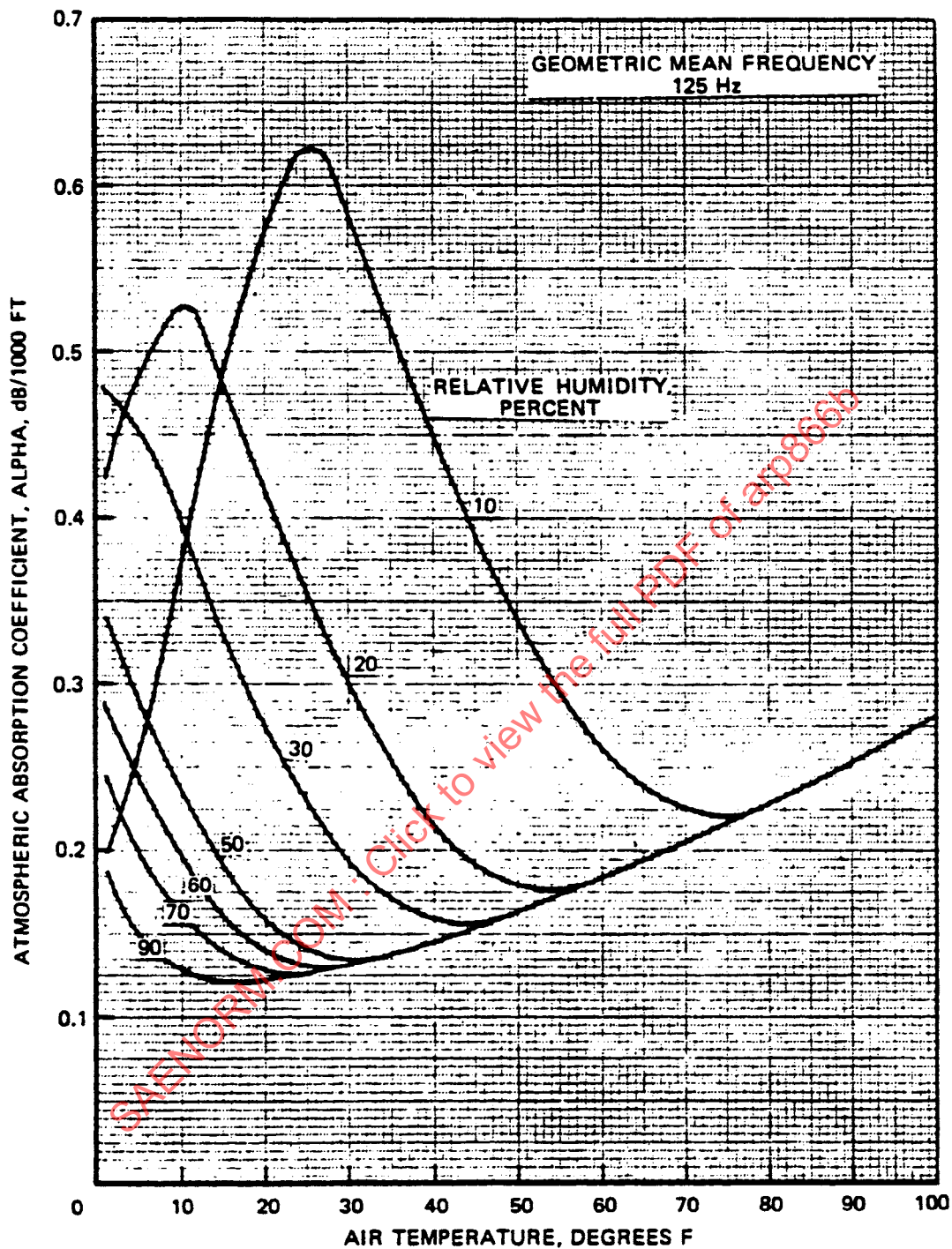


FIGURE 11. CONTINUED

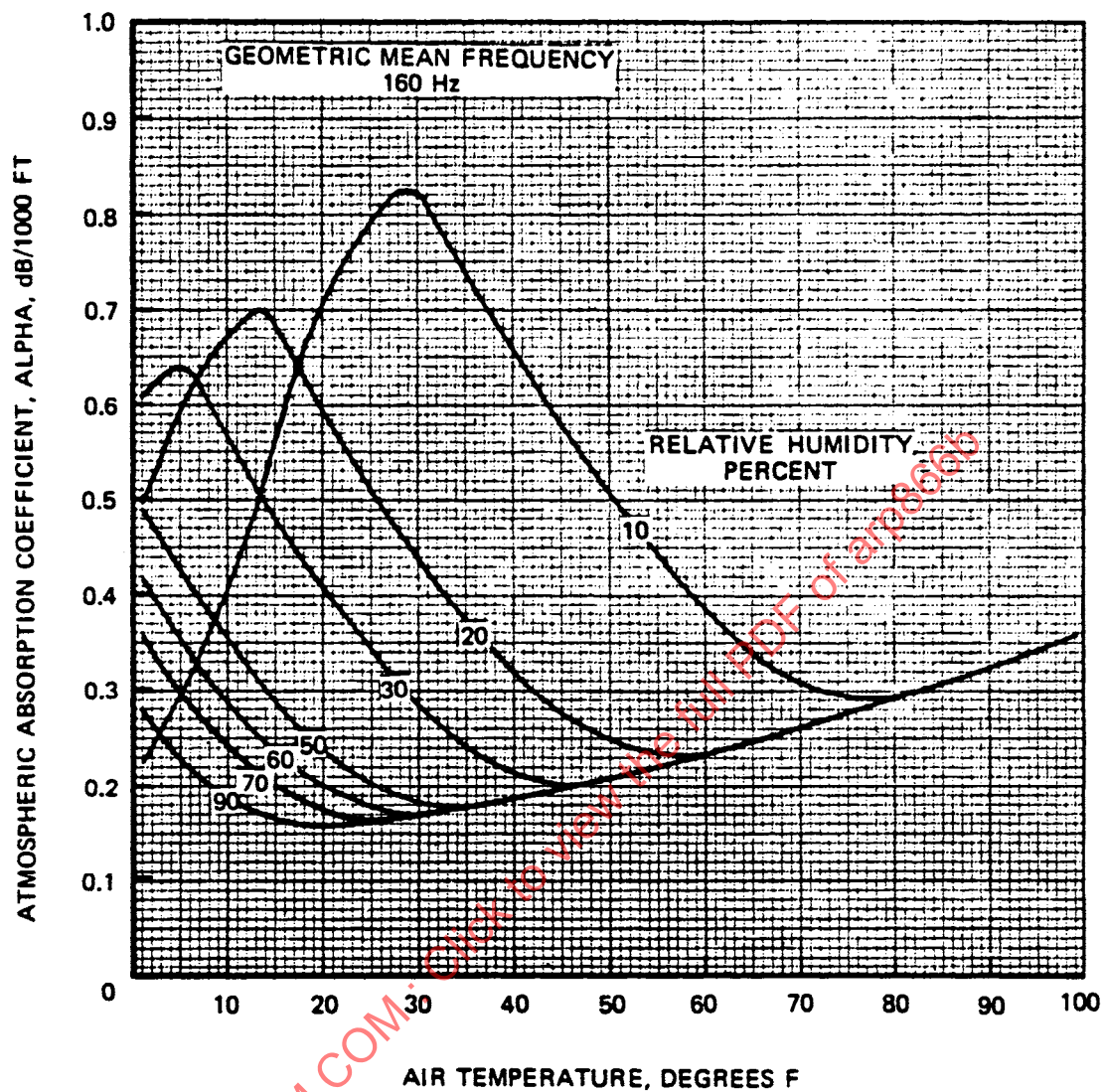


FIGURE 11 CONTINUED

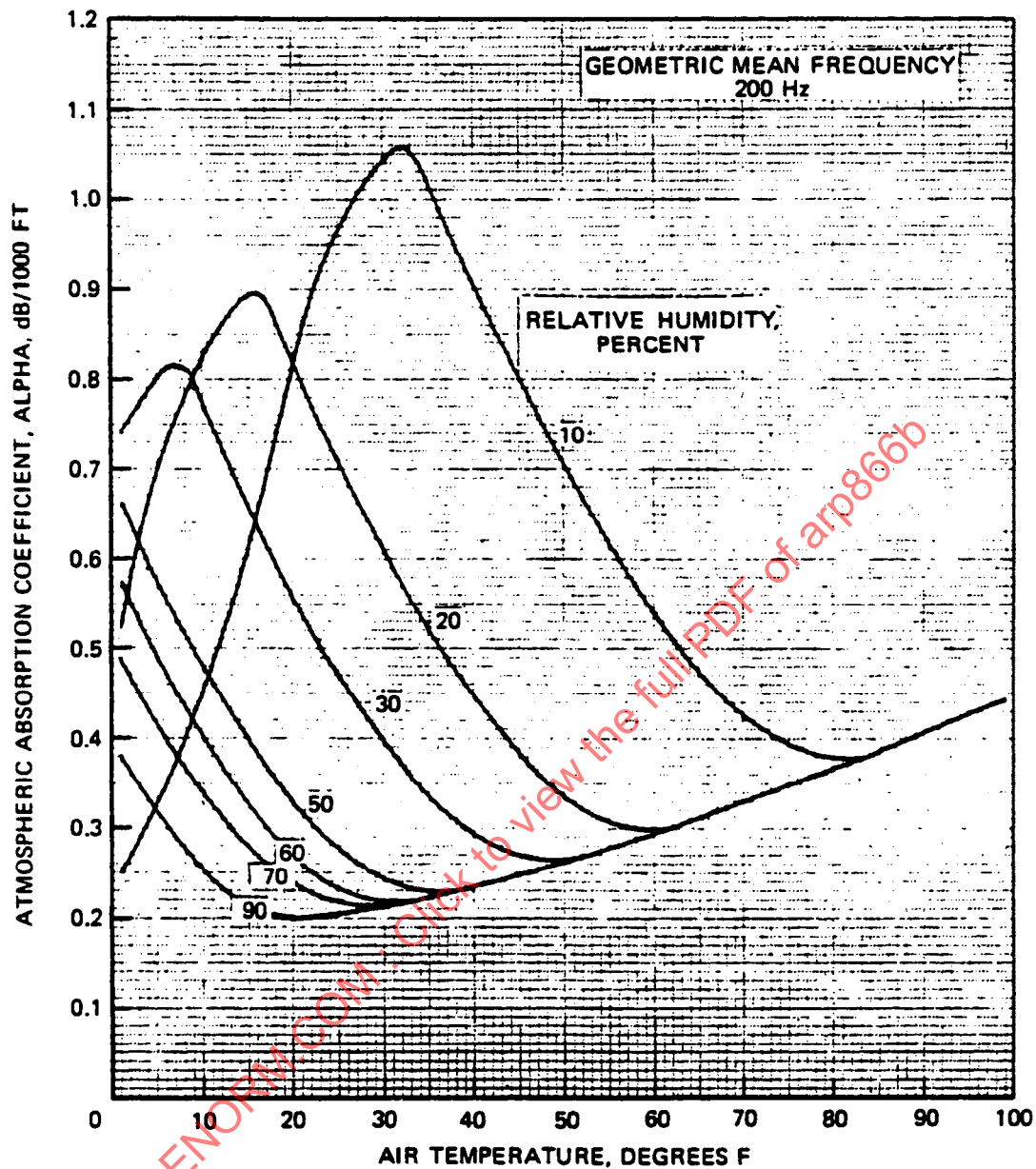


FIGURE 11. CONTINUED

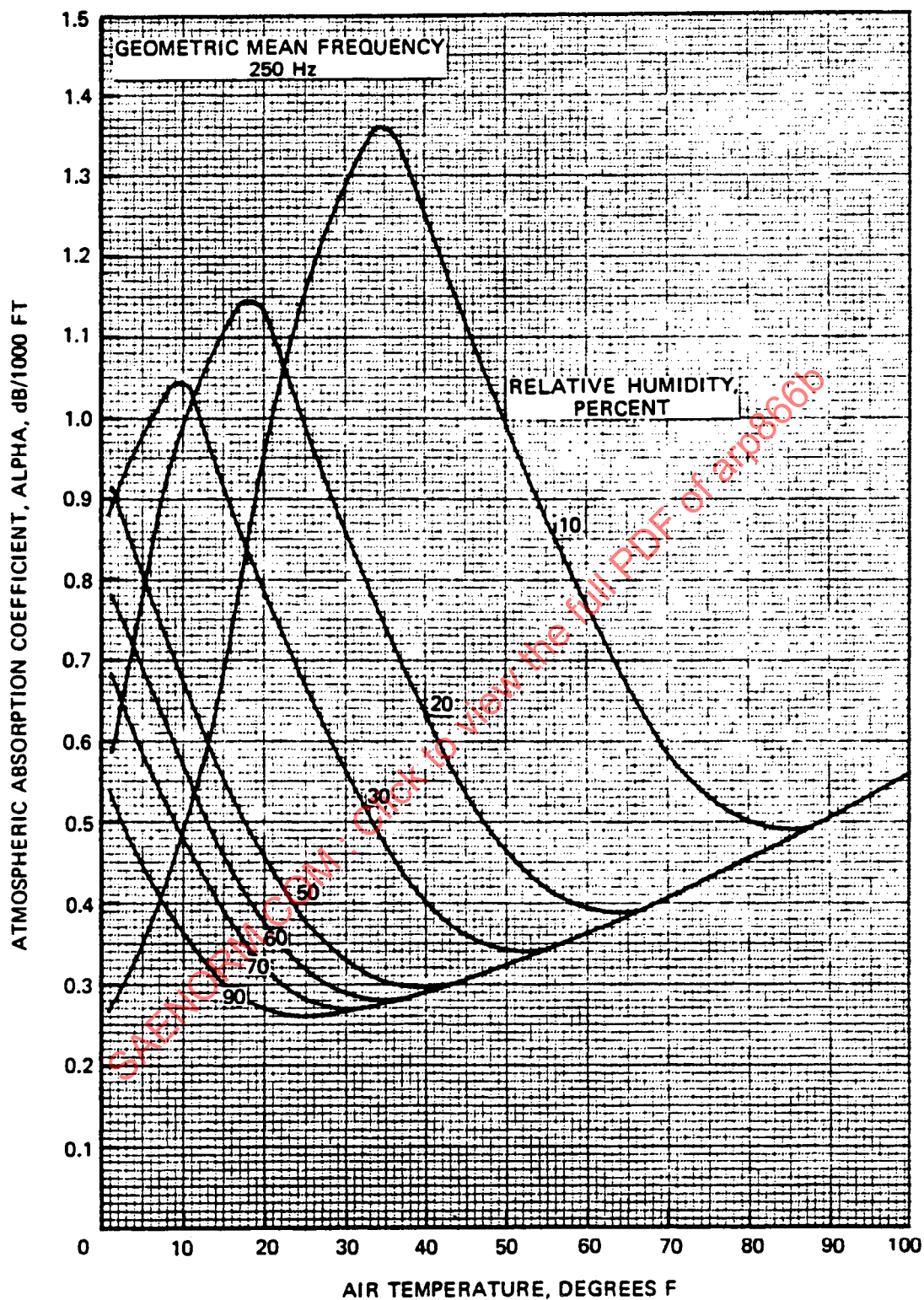


FIGURE 11. CONTINUED

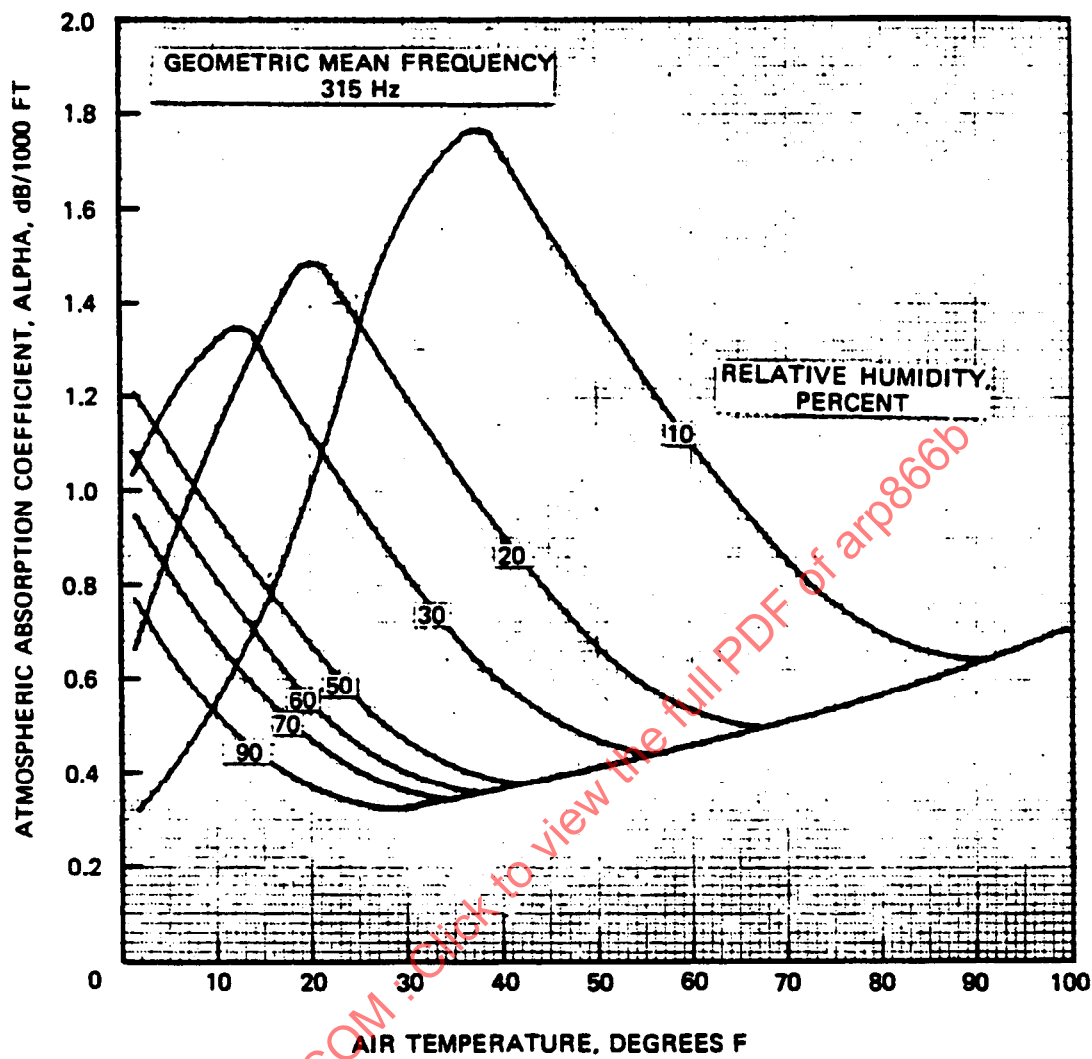


FIGURE 11. CONTINUED

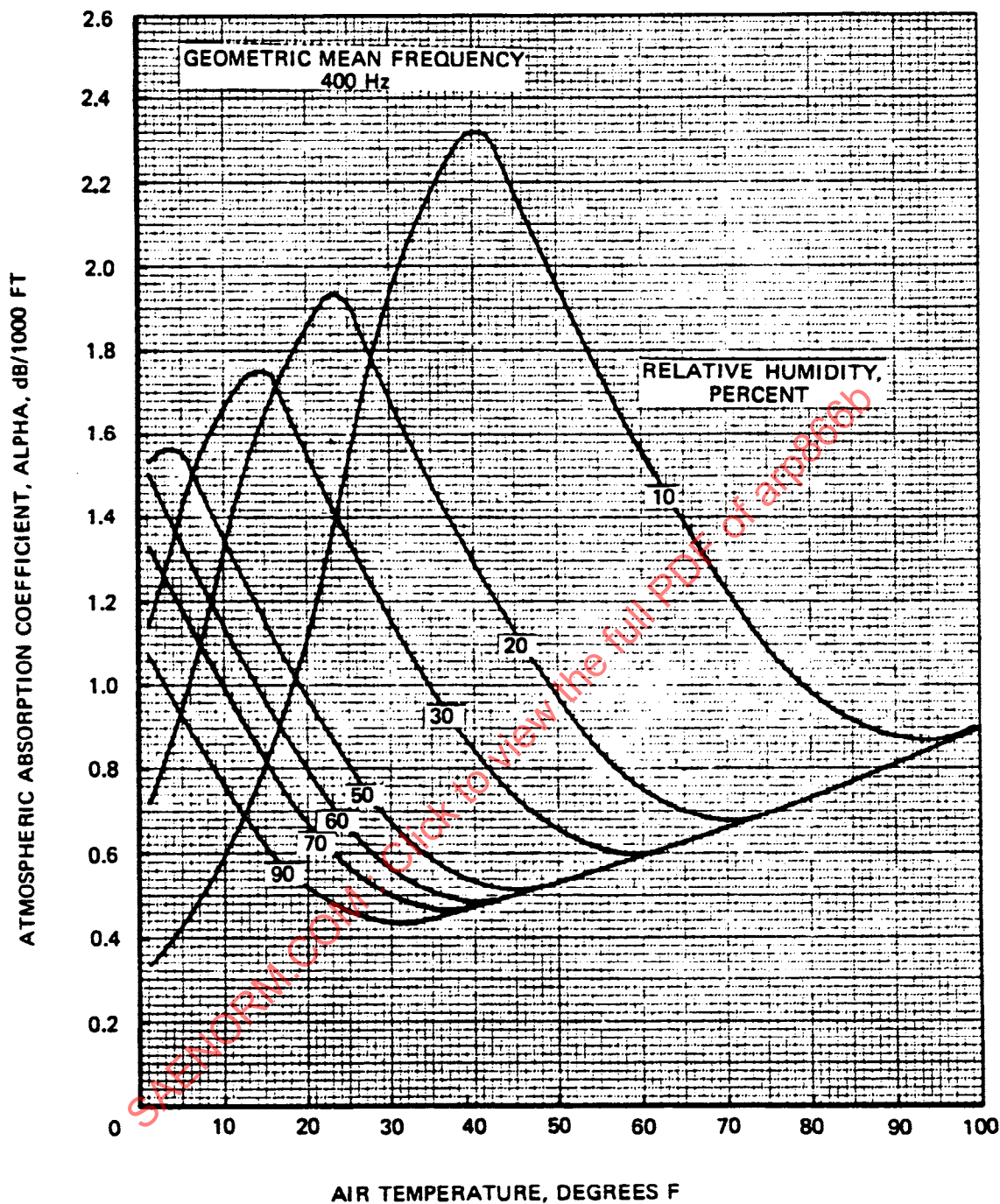


FIGURE 11. CONTINUED

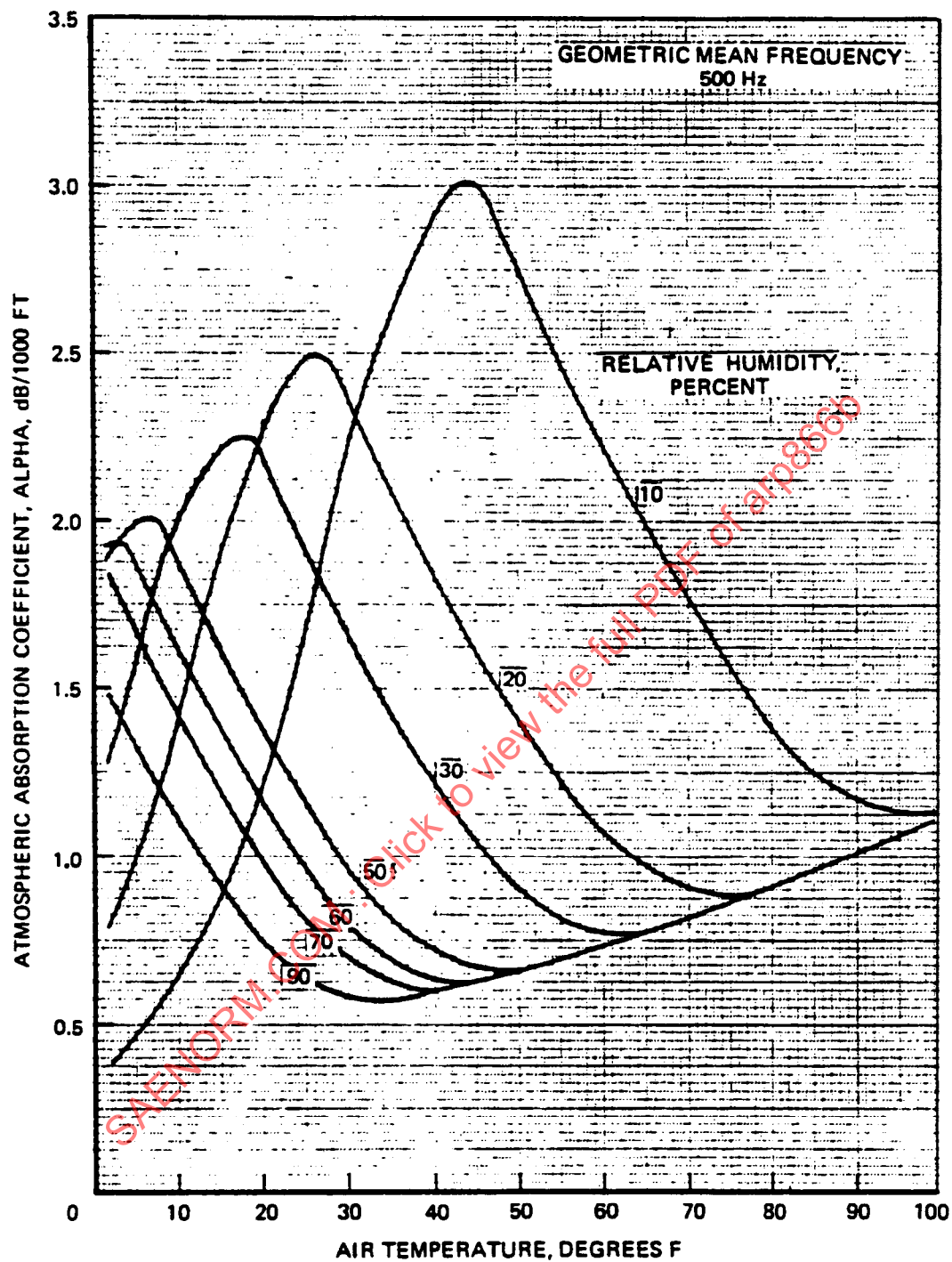


FIGURE 11. CONTINUED

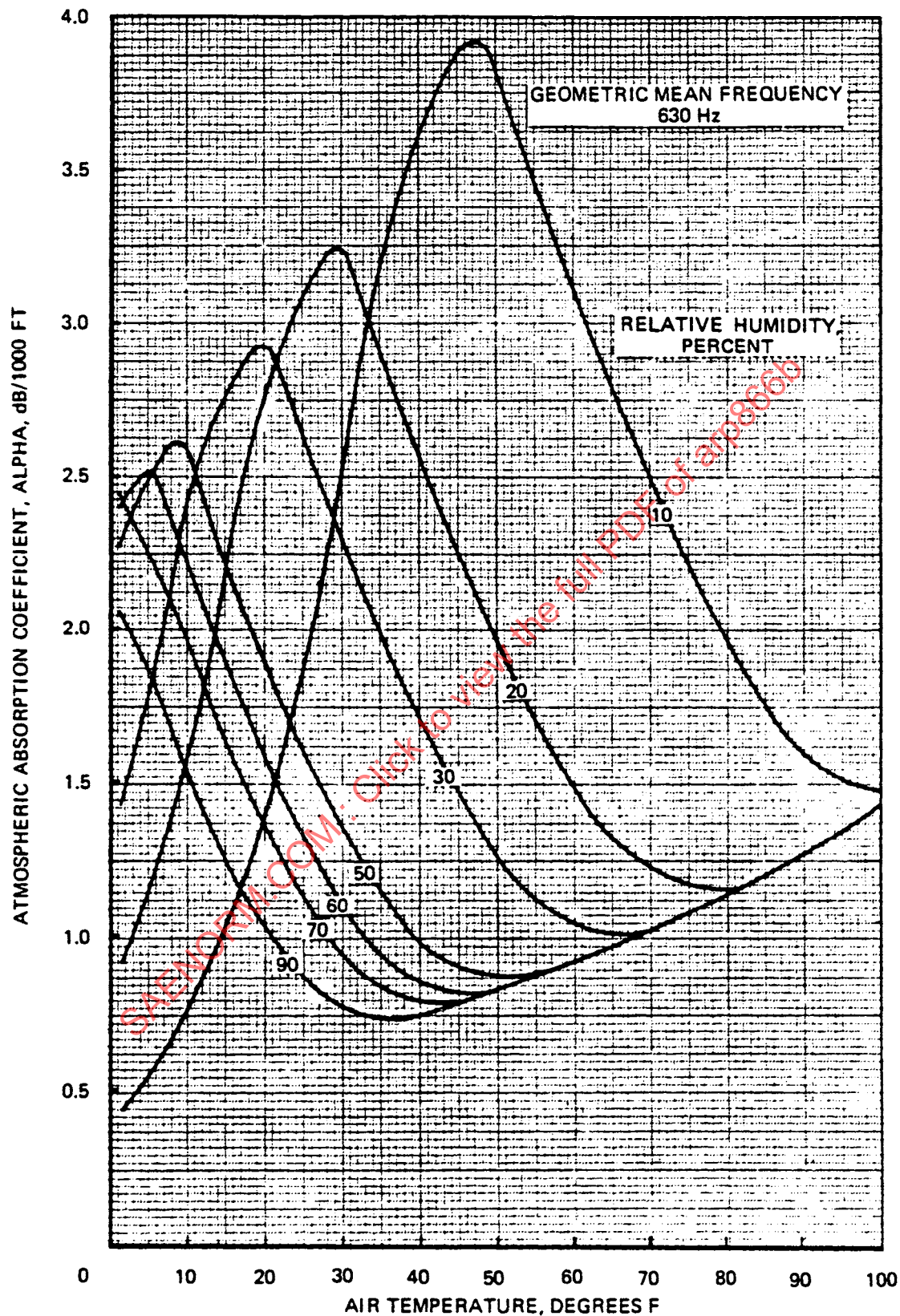


FIGURE 11. CONTINUED

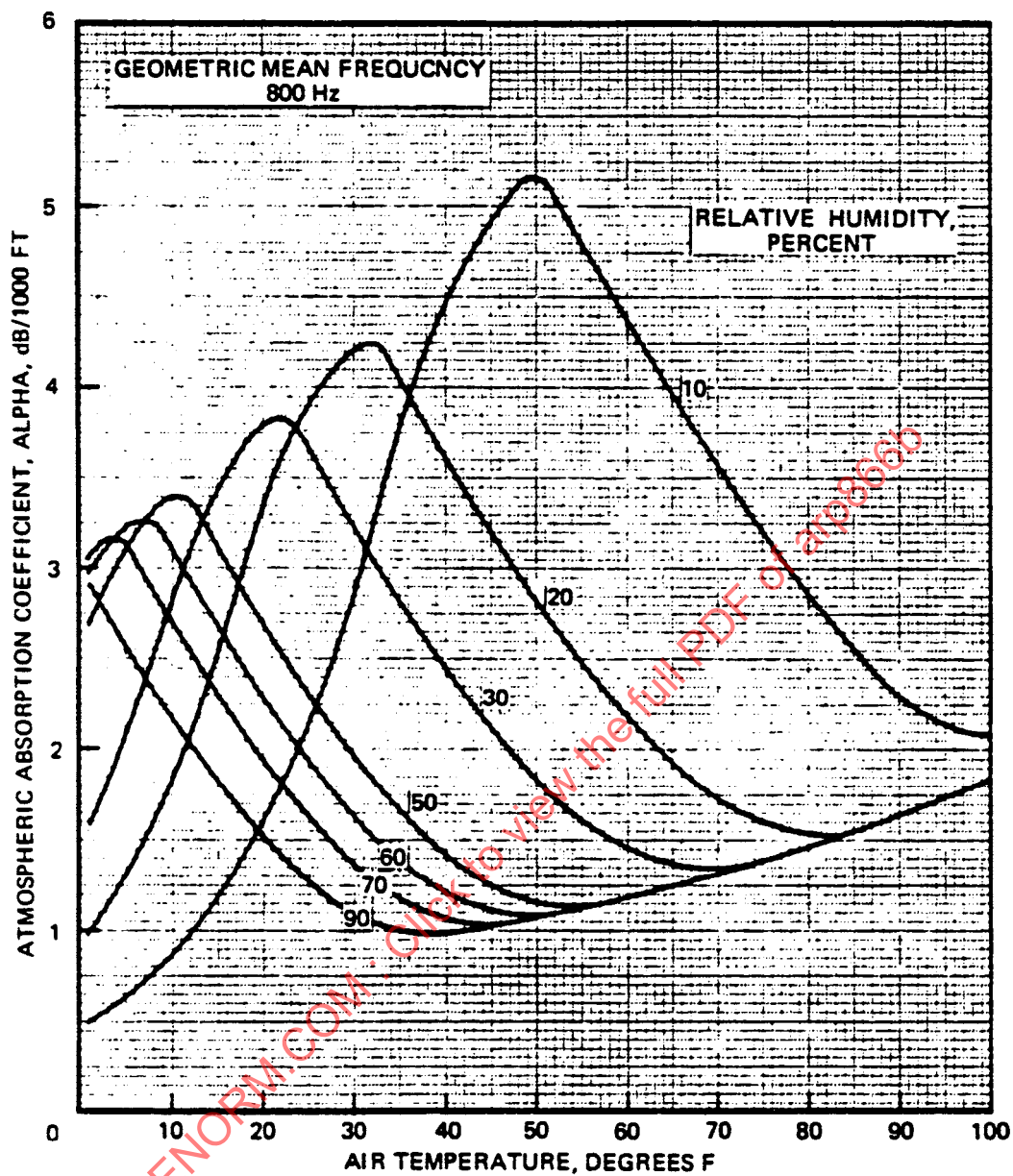


FIGURE 11. CONTINUED

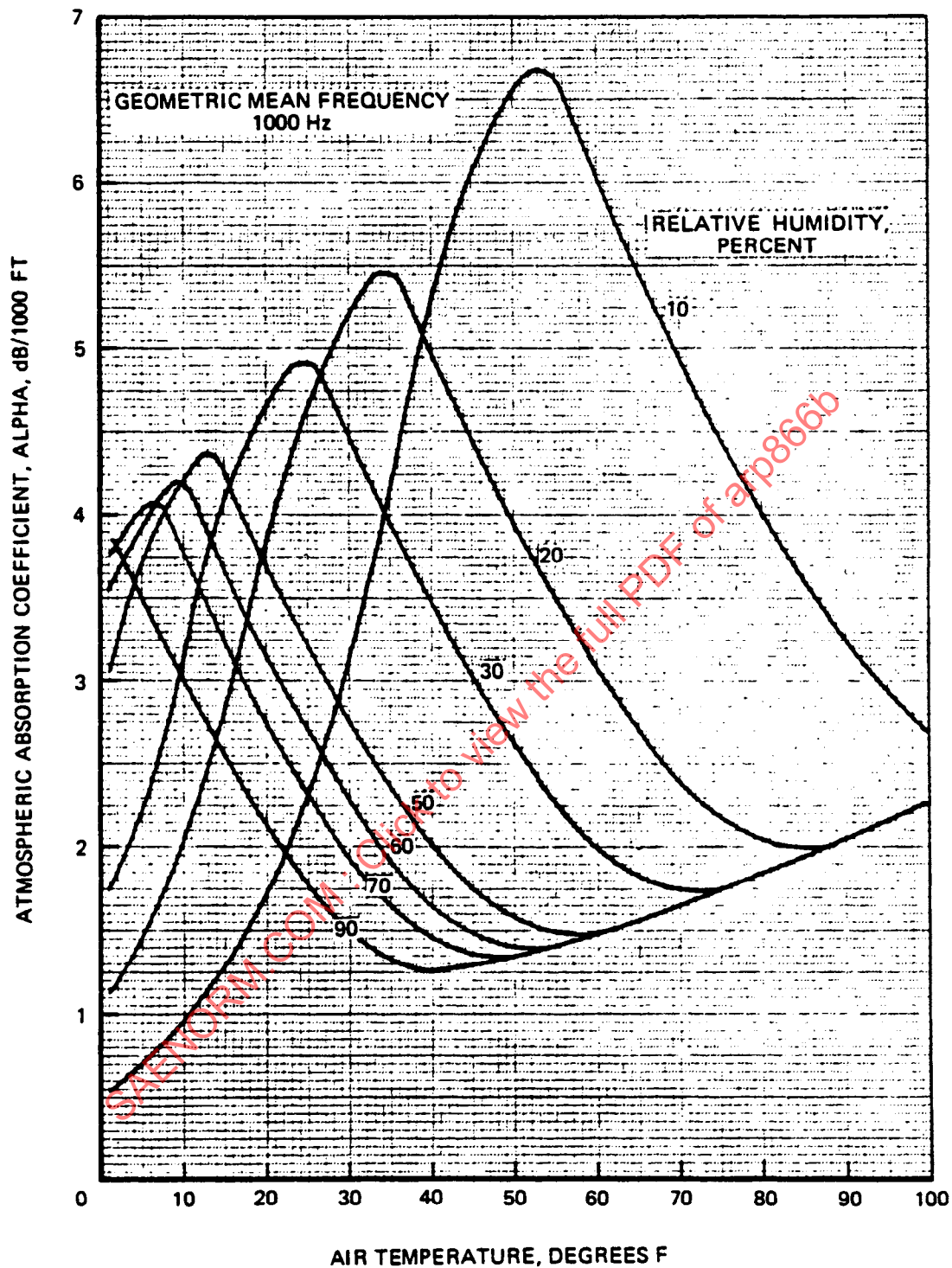


FIGURE 11. CONTINUED

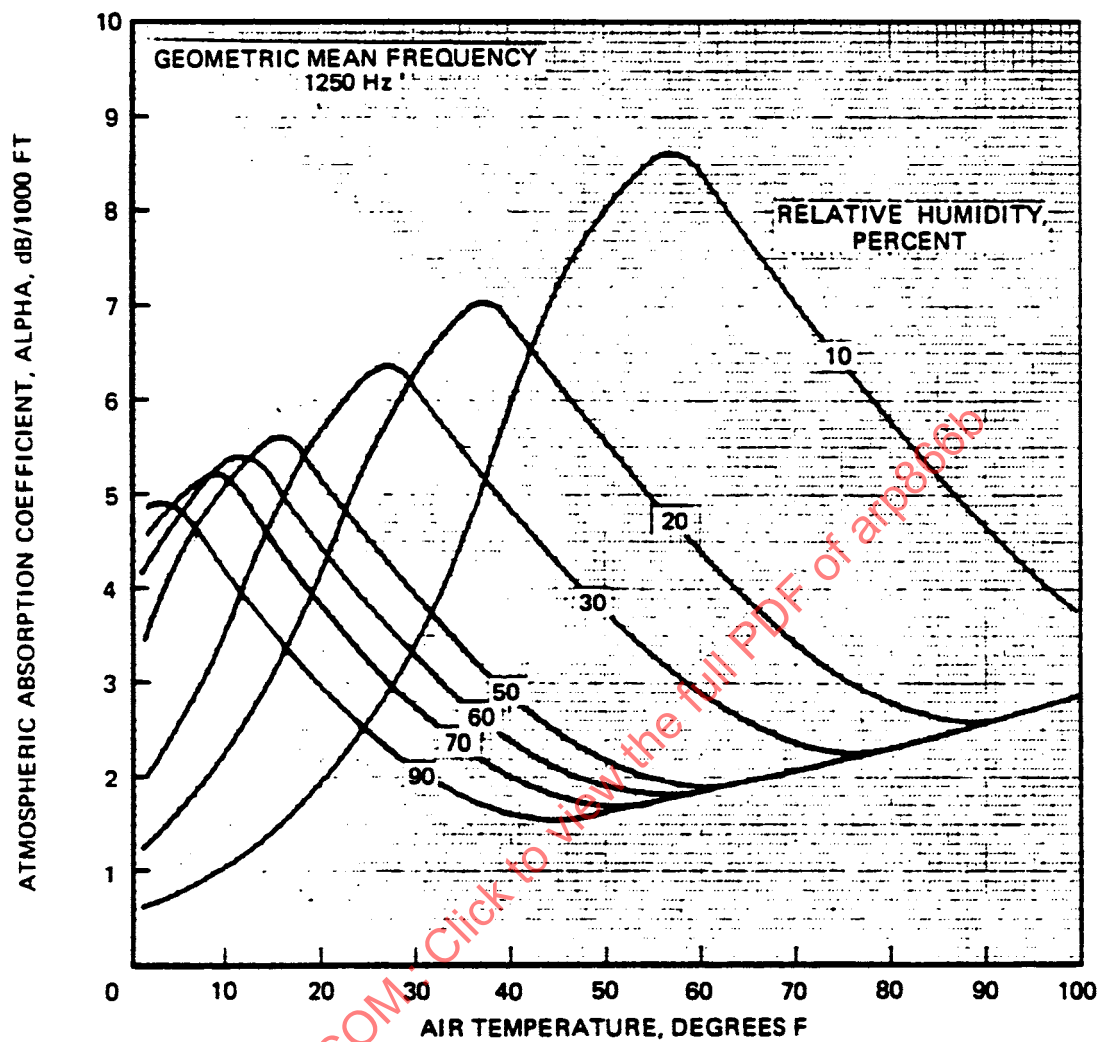


FIGURE 11. CONTINUED

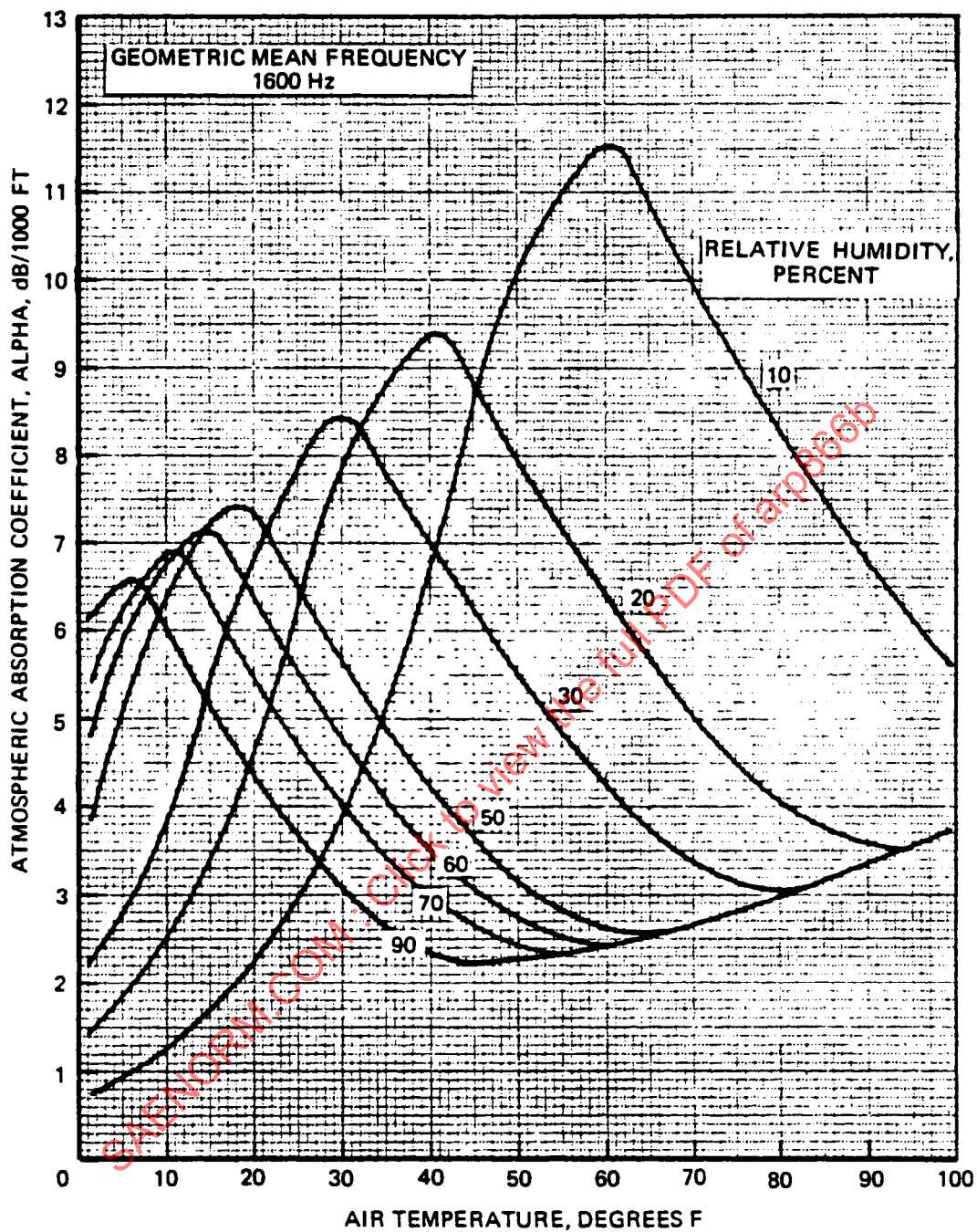


FIGURE 11. CONTINUED

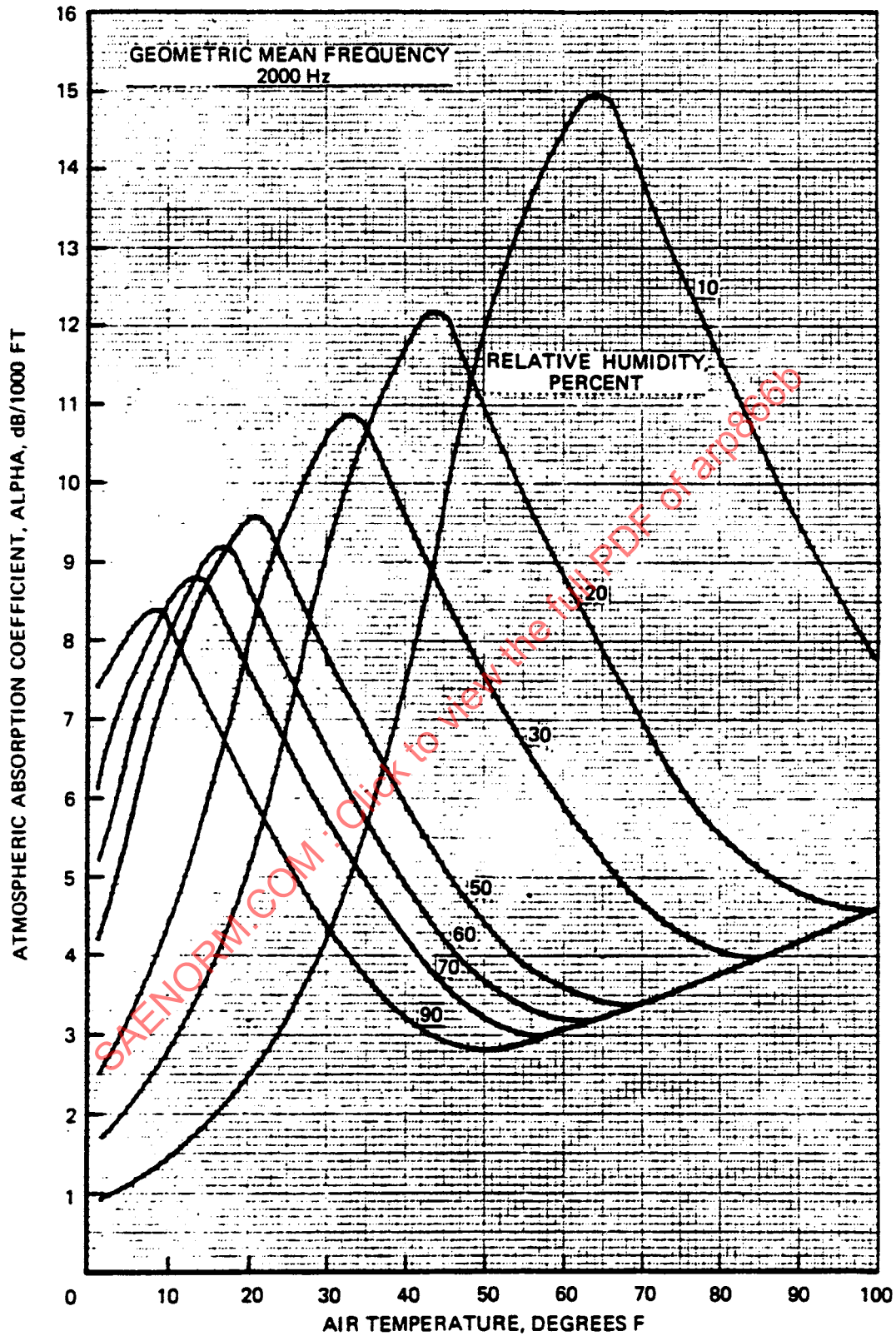


FIGURE 11. CONTINUED

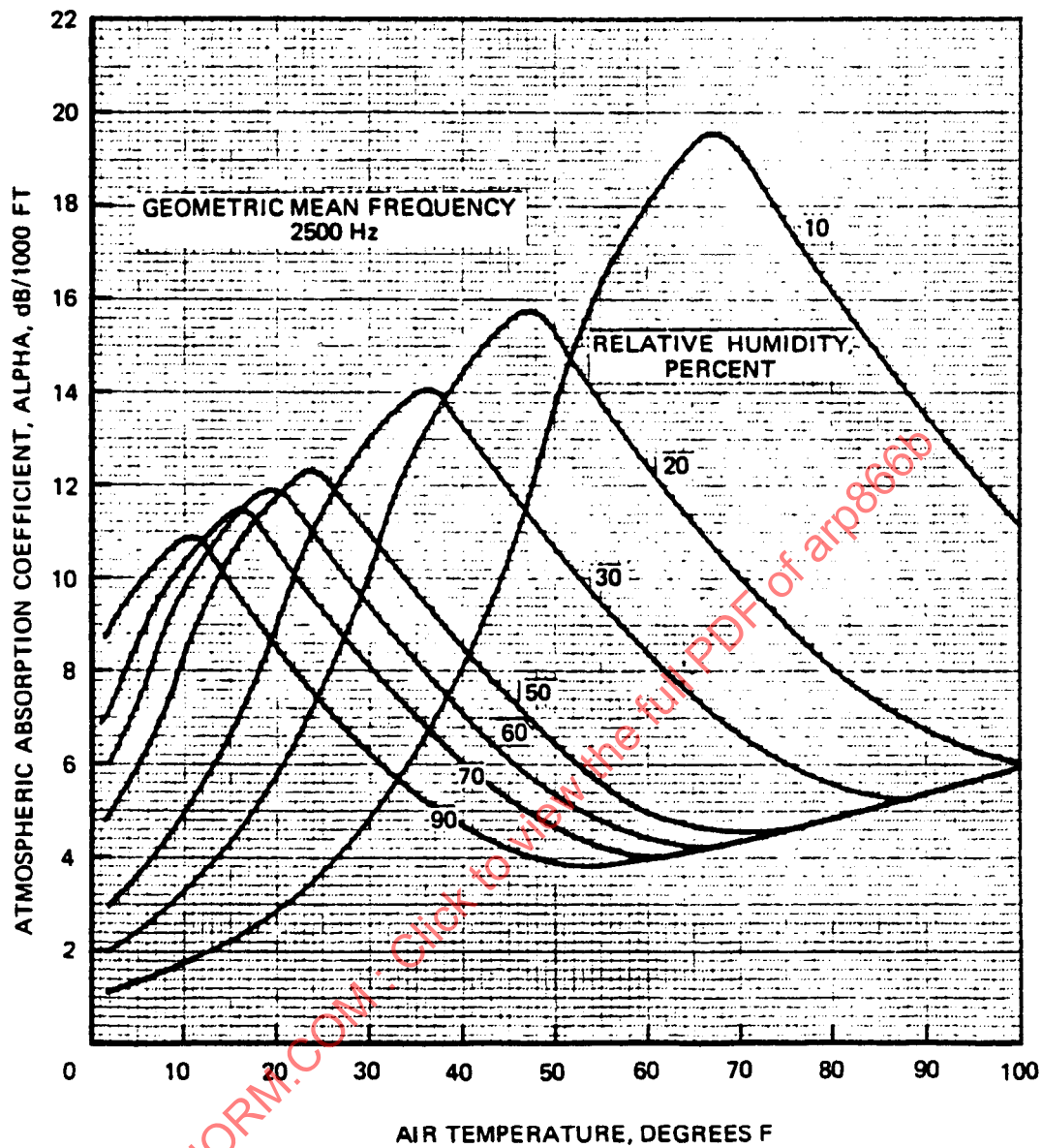


FIGURE 11. CONTINUED

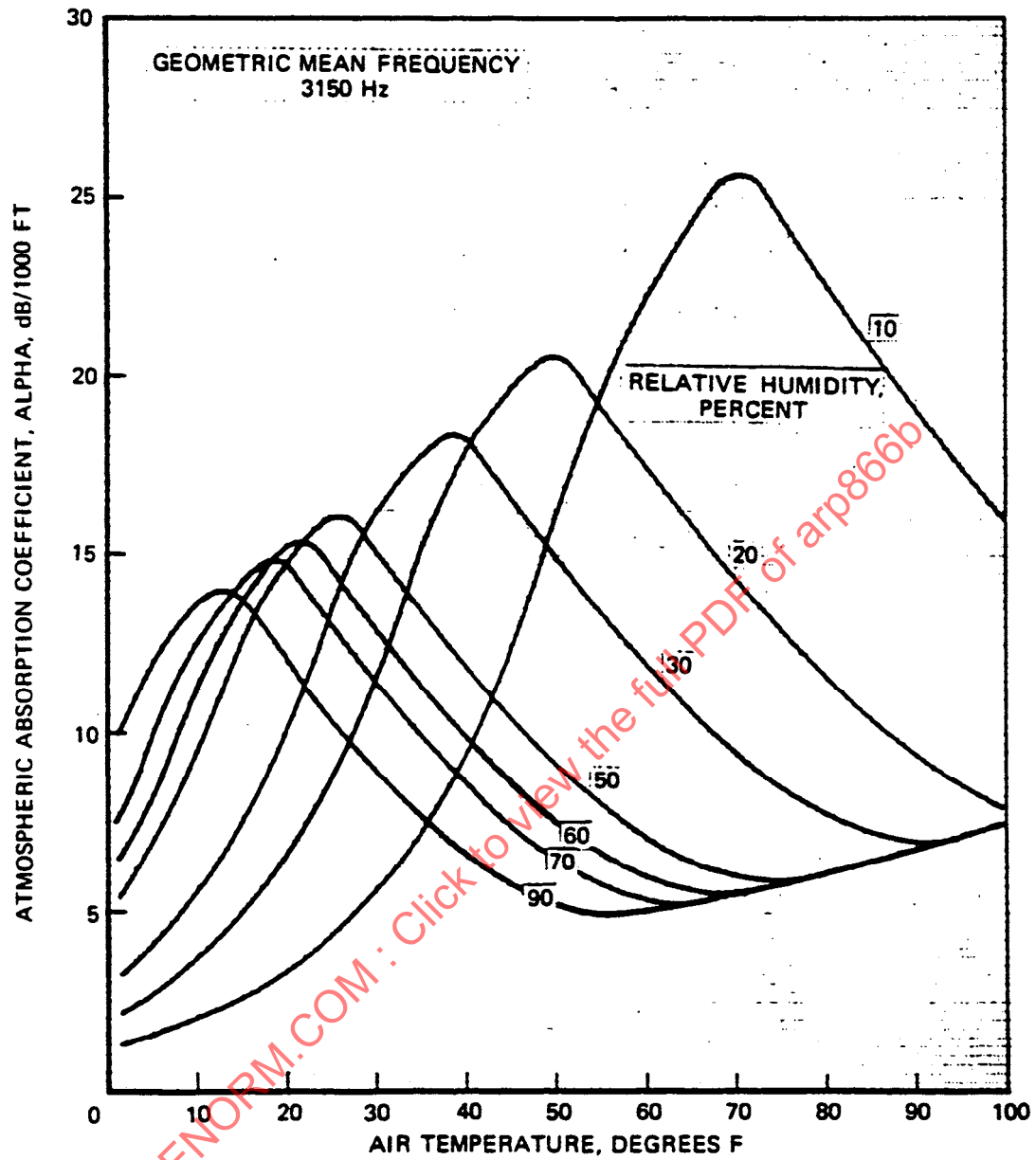


FIGURE 11. CONTINUED

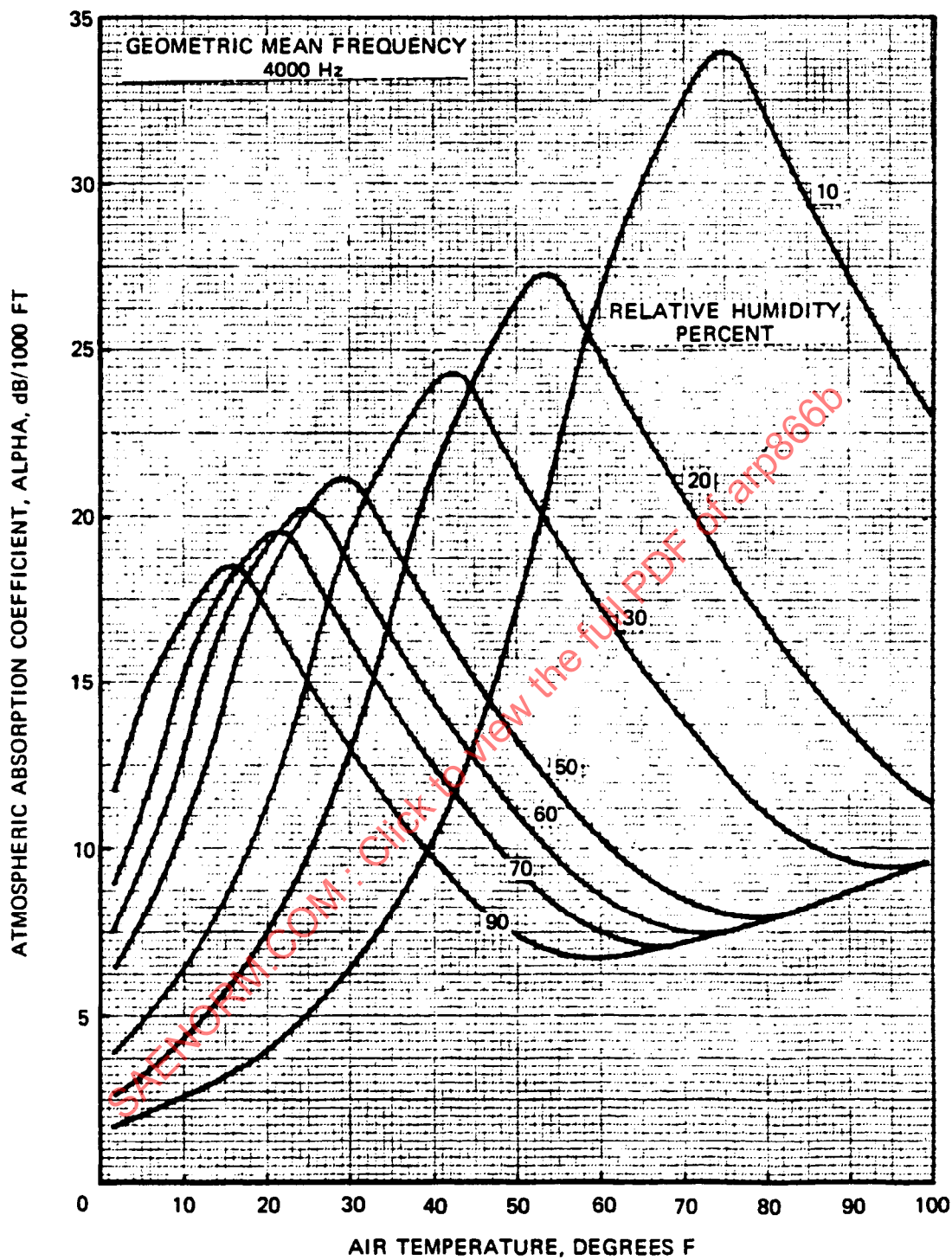
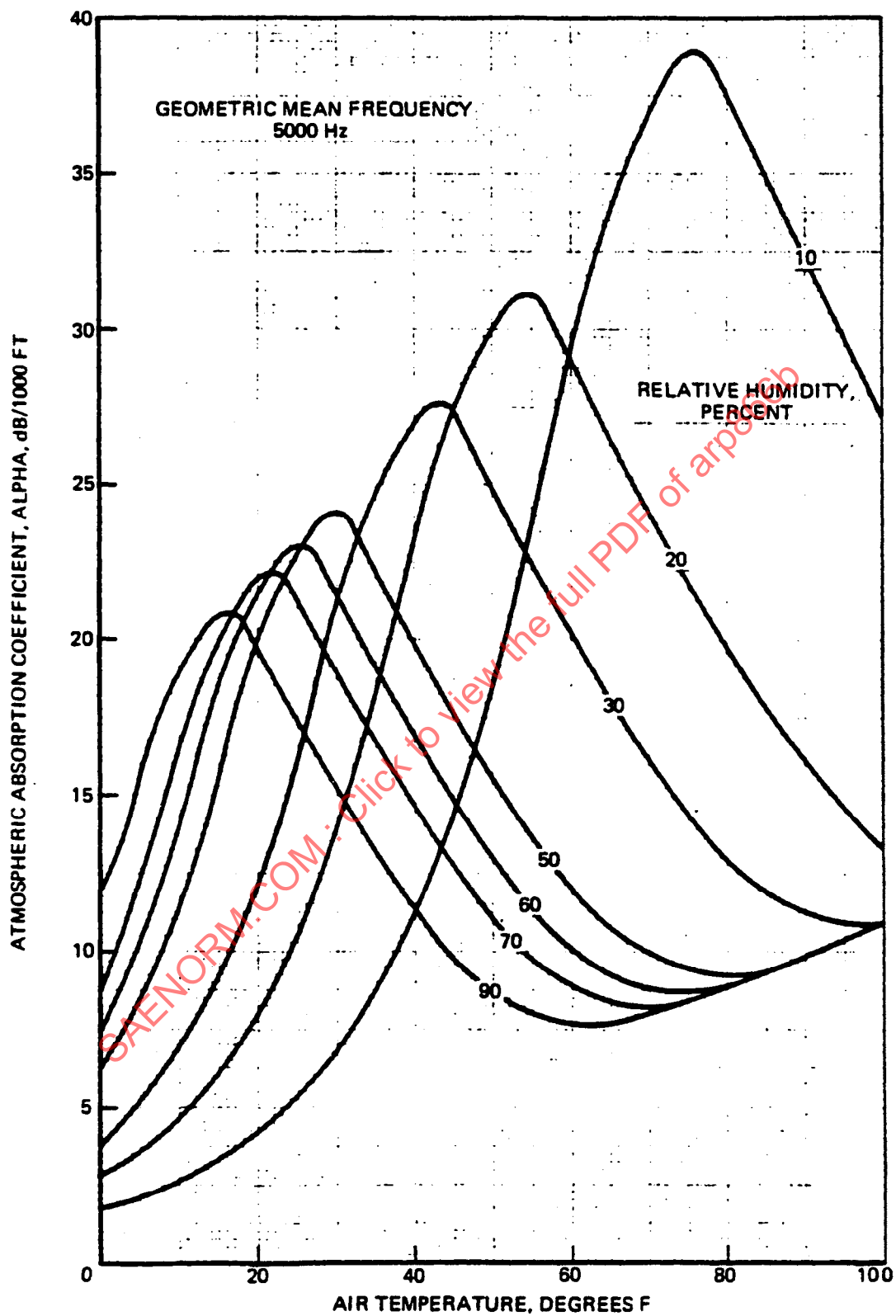
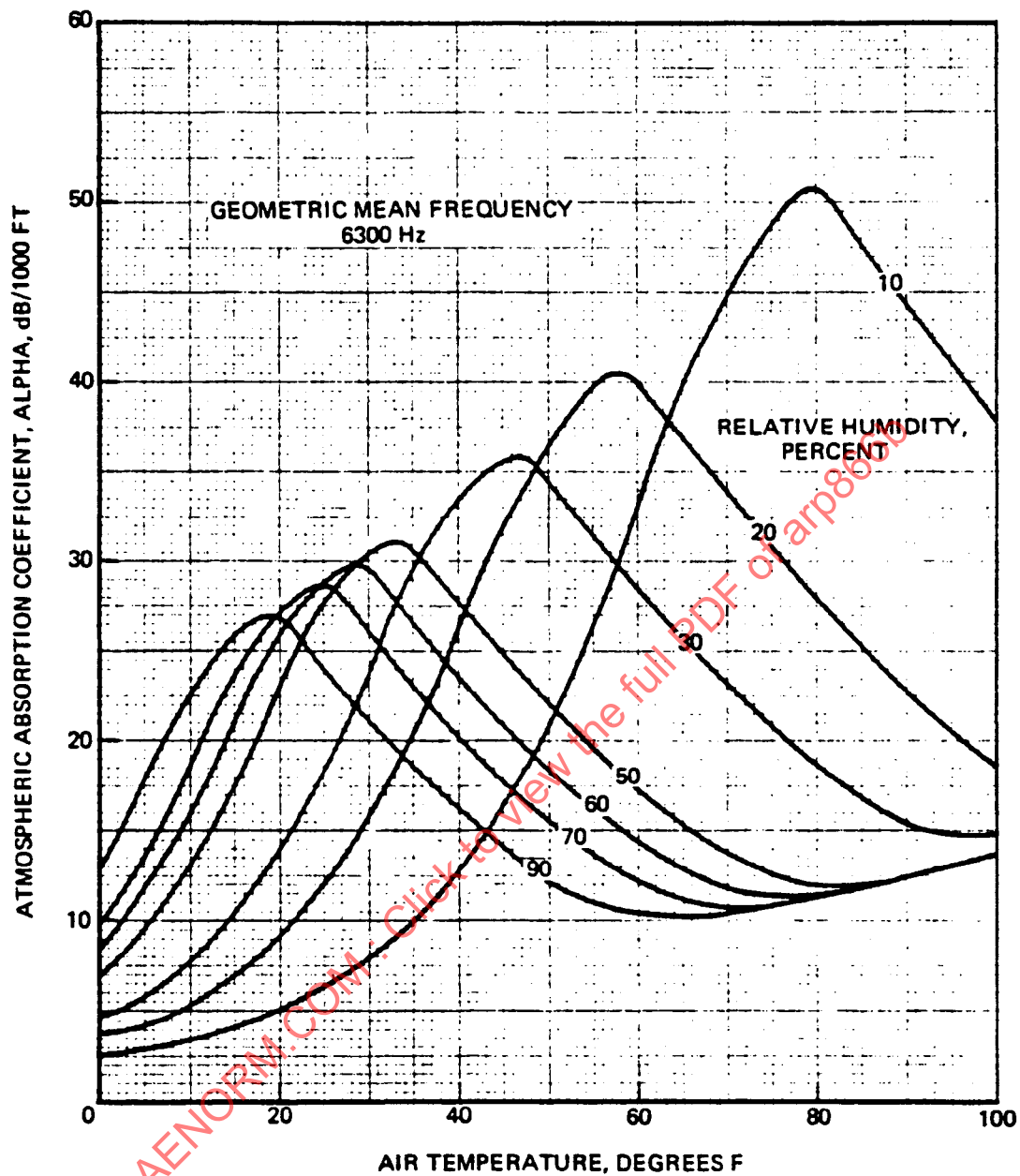


FIGURE 11. CONTINUED



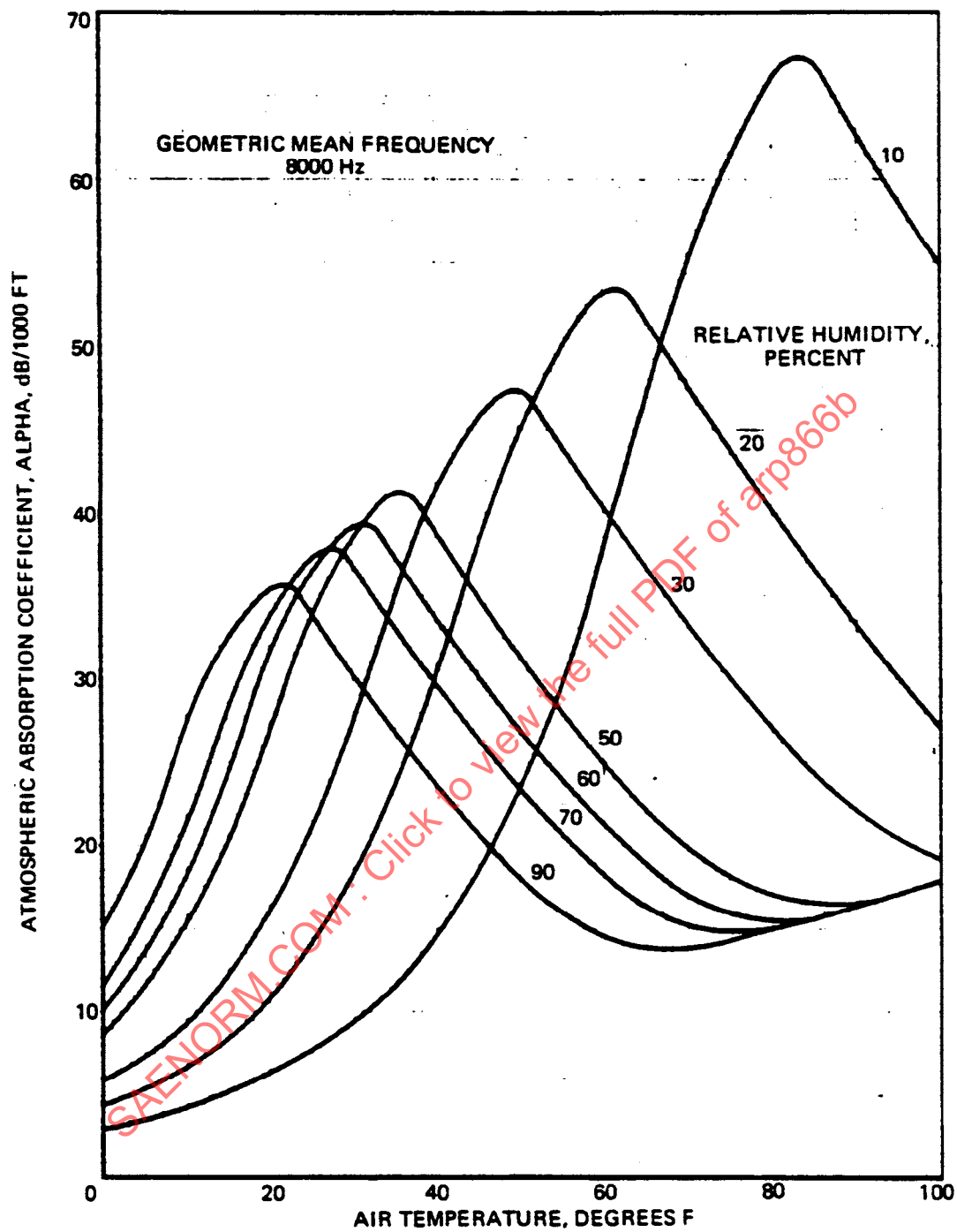
NOTE: Frequency used to calculate these coefficients was 4500 Hz.

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

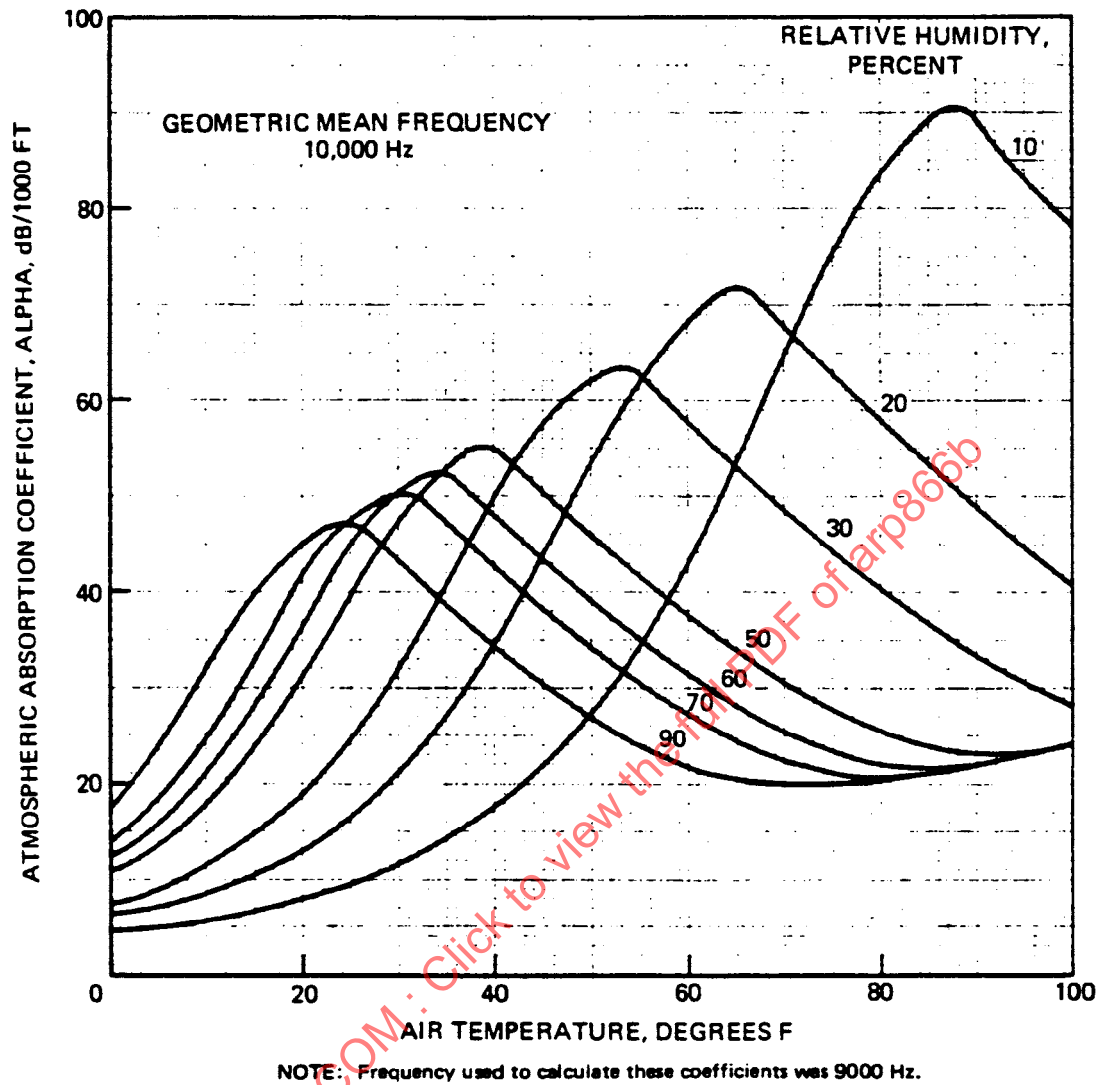


FIGURE 11. CONCLUDED

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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											
	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	3.2
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	3.3
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	3.4
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	3.5
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	3.6
6	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5	56	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.7
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	3.8
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	3.9
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	4.0
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	4.1
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	4.3
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	4.4
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	4.5
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	4.7
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	4.8
16	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7	66	0.4	0.6	0.9	1.2	1.6	2.3	3.6	5.0
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	1.7	2.4	3.7	5.1
18	0.0	0.0	0.1	0.1	0.2	0.4	0.9	1.7	68	0.5	0.7	0.9	1.2	1.7	2.5	3.8	5.3
19	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	69	0.5	0.7	0.9	1.3	1.8	2.7	4.0	5.5
20	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7	70	0.5	0.7	1.0	1.3	1.8	2.7	4.1	5.6
21	0.0	0.1	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	5.8
22	0.0	0.1	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	6.0
23	0.0	0.1	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	6.2
24	0.0	0.1	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	6.5
25	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.9	75	0.5	0.9	1.2	1.7	2.3	3.3	5.0	6.7
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	6.9
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	7.1
28	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	78	0.6	1.0	1.5	2.0	2.6	3.7	5.6	7.4
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	7.7
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	7.9
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	8.2
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	8.5
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	8.8
34	0.1	0.1	0.1	0.2	0.4	0.6	1.3	2.2	84	0.6	1.1	1.9	2.5	3.4	4.8	7.1	9.1
35	0.1	0.1	0.2	0.2	0.4	0.6	1.3	2.2	85	0.6	1.2	1.9	2.7	3.6	5.0	7.3	9.5
36	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.3	86	0.5	1.2	2.0	2.8	3.8	5.2	7.6	9.8
37	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3	87	0.5	1.2	2.1	2.9	3.9	5.4	7.9	10.2
38	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3	88	0.5	1.2	2.2	3.0	4.1	5.7	8.3	10.6
39	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4	89	0.5	1.2	2.2	3.2	4.3	5.9	8.6	11.0
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	11.4
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	11.8
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	12.3
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	12.7
44	0.1	0.2	0.3	0.4	0.6	0.9	1.7	2.7	94	0.5	1.3	2.6	4.0	5.4	7.3	10.5	13.2
45	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7	95	0.5	1.3	2.6	4.1	5.6	7.7	10.9	13.7
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	8.0	11.4	14.3
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	14.8
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	8.7	12.3	15.4
49	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0	99	0.4	1.2	2.7	4.6	6.7	9.1	12.8	16.0
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	16.6

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

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

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					
	63	125	250	500	1000	2000	4000	8000	16000	31500	63000	125000
1	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8	3.4	6.3	11.9	21.8
2	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.8	3.4	6.3	11.9	21.8
3	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	3.6	6.7	12.5	23.4
4	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	3.6	6.7	12.5	23.4
5	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9	3.6	6.7	12.5	23.4
6	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0	3.7	6.8	12.6	23.5
7	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.0	3.8	6.9	12.7	23.6
8	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1	3.9	7.0	12.8	23.7
9	0.1	0.1	0.1	0.2	0.3	0.6	1.3	2.1	4.0	7.1	12.9	23.8
10	0.1	0.1	0.1	0.2	0.4	0.6	1.3	2.2	4.1	7.2	13.0	23.9
11	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.2	7.3	13.1	24.0
12	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.3	7.4	13.2	24.1
13	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.4	7.5	13.3	24.2
14	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.5	7.6	13.4	24.3
15	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.6	7.7	13.5	24.4
16	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.7	7.8	13.6	24.5
17	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.8	7.9	13.7	24.6
18	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	4.9	8.0	13.8	24.7
19	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.0	8.1	13.9	24.8
20	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.1	8.2	14.0	24.9
21	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.2	8.3	14.1	25.0
22	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.3	8.4	14.2	25.1
23	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.4	8.5	14.3	25.2
24	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.5	8.6	14.4	25.3
25	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.6	8.7	14.5	25.4
26	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.7	8.8	14.6	25.5
27	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.8	8.9	14.7	25.6
28	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	5.9	9.0	14.8	25.7
29	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.0	9.1	14.9	25.8
30	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.1	9.2	15.0	25.9
31	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.2	9.3	15.1	26.0
32	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.3	9.4	15.2	26.1
33	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.4	9.5	15.3	26.2
34	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.5	9.6	15.4	26.3
35	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.6	9.7	15.5	26.4
36	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.7	9.8	15.6	26.5
37	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.8	9.9	15.7	26.6
38	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	6.9	10.0	15.8	26.7
39	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.0	10.1	15.9	26.8
40	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.1	10.2	16.0	26.9
41	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.2	10.3	16.1	27.0
42	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.3	10.4	16.2	27.1
43	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.4	10.5	16.3	27.2
44	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.5	10.6	16.4	27.3
45	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.6	10.7	16.5	27.4
46	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.7	10.8	16.6	27.5
47	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.8	10.9	16.7	27.6
48	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	7.9	11.0	16.8	27.7
49	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	8.0	11.1	16.9	27.8
50	0.1	0.1	0.1	0.2	0.4	0.7	1.4	2.3	8.1	11.2	17.0	27.9

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	1.8	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	4.7	6.4	9.1				98	0.1	0.3	0.6	1.6	4.8	13.8	37.6	64.7	
49	0.2	0.6	1.6	3.1	4.9	6.7	9.5				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 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	0.4	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	0.4	0.6	1.0	1.8	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	0.5	0.7	1.1	2.0	3.0	62	0.1	0.4	1.1	2.9	7.4	13.9	21.1	25.4
13	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0	63	0.1	0.4	1.1	2.9	7.5	14.3	22.1	26.6
14	0.2	0.3	0.4	0.5	0.7	1.2	2.1	3.1	64	0.1	0.4	1.0	2.9	7.5	14.6	23.1	27.9
15	0.2	0.3	0.4	0.5	0.7	1.3	2.2	3.2	65	0.1	0.3	1.0	2.8	7.5	14.9	24.1	29.3
16	0.3	0.4	0.5	0.6	0.9	1.4	2.4	3.4	66	0.1	0.3	1.0	2.7	7.4	15.2	25.1	30.7
17	0.3	0.4	0.5	0.6	0.9	1.4	2.5	3.6	67	0.1	0.3	1.0	2.7	7.3	15.5	26.2	32.2
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	15.9	27.3	33.7
19	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.8	69	0.1	0.3	0.9	2.5	6.9	16.2	28.2	34.7
20	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0	70	0.1	0.3	0.9	2.5	6.8	16.4	30.1	38.2
21	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.2	71	0.1	0.3	0.9	2.4	6.7	16.6	31.0	39.8
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	6.6	16.8	31.9	41.5
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	6.5	16.9	32.8	43.1
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	6.4	16.9	33.6	44.6
25	0.3	0.6	0.9	1.1	1.6	2.3	3.5	4.9	75	0.1	0.3	0.8	2.2	6.3	16.9	34.0	46.1
26	0.3	0.6	0.9	1.2	1.7	2.4	3.7	5.1	76	0.1	0.3	0.8	2.2	6.2	16.7	34.6	47.5
27	0.3	0.6	1.0	1.3	1.8	2.5	3.9	5.3	77	0.1	0.3	0.7	2.2	6.1	16.4	35.2	48.9
28	0.3	0.6	1.0	1.4	1.9	2.6	4.1	5.5	78	0.1	0.3	0.7	2.1	6.0	16.1	35.8	50.2
29	0.3	0.6	1.1	1.5	2.0	2.8	4.3	5.7	79	0.1	0.3	0.7	2.1	5.9	15.3	36.4	51.4
30	0.3	0.6	1.1	1.5	2.1	2.9	4.5	6.0	80	0.1	0.3	0.7	2.0	5.8	15.6	36.9	52.6
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	5.6	15.4	37.3	53.6
32	0.3	0.7	1.2	1.7	2.3	3.3	4.9	6.5	82	0.1	0.3	0.6	1.9	5.5	15.1	37.9	54.6
33	0.3	0.7	1.2	1.8	2.5	3.5	5.2	6.8	83	0.1	0.3	0.6	1.9	5.4	14.9	38.2	55.6
34	0.3	0.7	1.2	1.9	2.6	3.6	5.4	7.1	84	0.1	0.2	0.6	1.8	5.3	14.8	38.4	56.5
35	0.3	0.7	1.3	2.0	2.8	3.8	5.7	7.4	85	0.1	0.2	0.6	1.8	5.2	14.6	38.5	57.4
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	5.1	14.4	38.5	58.2
37	0.3	0.7	1.4	2.3	3.1	4.3	6.2	8.1	87	0.1	0.2	0.6	1.7	5.0	14.2	38.3	59.0
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	4.9	13.9	37.8	59.7
39	0.2	0.6	1.4	2.5	3.5	4.7	6.9	8.8	89	0.1	0.2	0.6	1.6	4.8	13.7	37.1	60.3
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	4.7	13.5	36.5	60.9
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	4.6	13.2	35.9	61.1
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	4.5	13.0	35.4	61.3
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	4.4	12.8	35.0	61.0
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	4.3	12.5	34.5	60.5
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	4.2	12.3	34.1	60.6
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	4.1	12.1	33.7	60.4
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	4.0	11.9	33.3	60.6
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	3.9	11.8	32.9	60.8
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	3.8	11.6	32.4	60.9
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	3.8	11.4	32.4	60.9

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	6.8	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	6.9	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	7.1	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	15.1
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	15.3
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	15.6
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	15.8
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	16.1
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	16.3
20	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4	70	0.1	0.3	0.7	2.2	6.2	16.6
21	0.3	0.5	0.7	1.0	1.4	2.1	3.2	4.6	71	0.1	0.3	0.7	2.2	6.1	16.8
22	0.3	0.5	0.8	1.1	1.5	2.2	3.4	4.8	72	0.1	0.2	0.7	2.1	6.0	17.1
23	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0	73	0.1	0.2	0.7	2.0	5.9	17.4
24	0.3	0.6	0.9	1.3	1.7	2.4	3.8	5.2	74	0.1	0.2	0.7	2.0	5.8	17.7
25	0.3	0.6	1.0	1.3	1.8	2.6	4.0	5.4	75	0.1	0.2	0.7	1.9	5.7	18.0
26	0.3	0.6	1.0	1.4	1.9	2.7	4.2	5.6	76	0.1	0.2	0.7	1.9	5.6	18.3
27	0.3	0.6	1.1	1.5	2.0	2.9	4.4	5.9	77	0.1	0.2	0.6	1.8	5.5	18.6
28	0.3	0.6	1.1	1.6	2.2	3.0	4.6	6.1	78	0.1	0.2	0.6	1.8	5.3	18.9
29	0.3	0.6	1.2	1.7	2.3	3.2	4.8	6.4	79	0.1	0.2	0.6	1.8	5.2	19.2
30	0.3	0.7	1.2	1.8	2.4	3.4	5.1	6.7	80	0.1	0.2	0.6	1.7	5.1	19.5
31	0.3	0.7	1.3	1.9	2.6	3.6	5.3	7.0	81	0.1	0.2	0.6	1.7	5.0	19.8
32	0.3	0.7	1.3	2.0	2.7	3.8	5.6	7.3	82	0.1	0.2	0.6	1.7	4.9	20.1
33	0.2	0.7	1.3	2.1	2.9	4.0	5.9	7.6	83	0.1	0.2	0.6	1.7	4.8	20.4
34	0.2	0.6	1.3	2.2	3.1	4.2	6.2	8.0	84	0.1	0.2	0.6	1.6	4.7	20.7
35	0.2	0.6	1.4	2.3	3.2	4.4	6.5	8.3	85	0.1	0.2	0.6	1.6	4.6	21.0
36	0.2	0.6	1.4	2.4	3.4	4.7	6.8	8.7	86	0.1	0.2	0.6	1.5	4.5	21.3
37	0.2	0.6	1.4	2.5	3.6	4.9	7.1	9.1	87	0.1	0.2	0.5	1.5	4.4	21.6
38	0.2	0.6	1.4	2.6	3.8	5.2	7.5	9.6	88	0.1	0.2	0.5	1.5	4.3	21.9
39	0.2	0.6	1.5	2.7	4.1	5.5	7.9	10.0	89	0.1	0.2	0.5	1.4	4.2	22.2
40	0.2	0.6	1.5	2.8	4.3	5.8	8.3	10.5	90	0.1	0.2	0.5	1.4	4.2	22.5
41	0.2	0.5	1.4	2.8	4.5	6.1	8.7	11.0	91	0.1	0.2	0.5	1.4	4.1	22.8
42	0.2	0.5	1.4	2.9	4.7	6.5	9.1	11.5	92	0.1	0.2	0.5	1.4	4.0	23.1
43	0.2	0.5	1.4	3.0	4.9	6.8	9.6	12.0	93	0.1	0.2	0.5	1.3	3.9	23.4
44	0.2	0.5	1.4	3.0	5.2	7.2	10.1	12.6	94	0.1	0.2	0.5	1.3	3.8	23.7
45	0.2	0.5	1.3	3.1	5.4	7.6	10.6	13.2	95	0.1	0.2	0.5	1.3	3.7	24.0
46	0.2	0.5	1.3	3.1	5.6	8.0	11.1	13.8	96	0.1	0.2	0.5	1.3	3.6	24.3
47	0.2	0.5	1.3	3.2	5.8	8.4	11.7	14.5	97	0.1	0.2	0.5	1.3	3.5	24.6
48	0.2	0.5	1.3	3.2	5.9	8.9	12.3	15.2	98	0.1	0.2	0.5	1.3	3.4	24.9
49	0.2	0.4	1.2	3.2	6.1	9.4	12.9	15.9	99	0.1	0.2	0.5	1.2	3.3	25.2
50	0.2	0.4	1.2	3.2	6.3	9.8	13.6	16.7	100	0.1	0.2	0.5	1.2	3.3	25.5

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	0.8	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	2.2	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	0.5	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	5.6	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	5.0	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	34.4	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	1.3	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	25.4	45.8

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

	HAND CENTER FREQUENCY, HZ					HAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.5	5.1	10.0
2	0.2	0.3	0.4	0.6	0.9	1.7	2.7	4.5	9.2	18.4
3	0.2	0.3	0.4	0.6	1.0	1.7	2.7	4.5	9.2	18.4
4	0.2	0.3	0.4	0.6	1.0	1.8	2.8	4.6	9.3	18.5
5	0.2	0.3	0.4	0.6	1.1	1.9	2.9	4.7	9.4	18.6
6	0.2	0.3	0.4	0.6	1.1	2.0	3.0	4.8	9.5	18.7
7	0.2	0.3	0.4	0.6	1.1	2.1	3.1	4.9	9.6	18.8
8	0.2	0.3	0.4	0.6	1.1	2.2	3.2	5.0	9.7	18.9
9	0.2	0.3	0.4	0.6	1.1	2.3	3.3	5.1	9.8	19.0
10	0.2	0.3	0.4	0.6	1.1	2.4	3.4	5.2	9.9	19.1
11	0.2	0.3	0.4	0.6	1.1	2.5	3.5	5.3	10.0	19.2
12	0.2	0.3	0.4	0.6	1.1	2.6	3.6	5.4	10.1	19.3
13	0.2	0.3	0.4	0.6	1.1	2.7	3.7	5.5	10.2	19.4
14	0.2	0.3	0.4	0.6	1.1	2.8	3.8	5.6	10.3	19.5
15	0.2	0.3	0.4	0.6	1.1	2.9	3.9	5.7	10.4	19.6
16	0.2	0.3	0.4	0.6	1.1	3.0	4.0	5.8	10.5	19.7
17	0.2	0.3	0.4	0.6	1.1	3.1	4.1	5.9	10.6	19.8
18	0.2	0.3	0.4	0.6	1.1	3.2	4.2	6.0	10.7	19.9
19	0.2	0.3	0.4	0.6	1.1	3.3	4.3	6.1	10.8	20.0
20	0.2	0.3	0.4	0.6	1.1	3.4	4.4	6.2	10.9	20.1
21	0.2	0.3	0.4	0.6	1.1	3.5	4.5	6.3	11.0	20.2
22	0.2	0.3	0.4	0.6	1.1	3.6	4.6	6.4	11.1	20.3
23	0.2	0.3	0.4	0.6	1.1	3.7	4.7	6.5	11.2	20.4
24	0.2	0.3	0.4	0.6	1.1	3.8	4.8	6.6	11.3	20.5
25	0.2	0.3	0.4	0.6	1.1	3.9	4.9	6.7	11.4	20.6
26	0.2	0.3	0.4	0.6	1.1	4.0	5.0	6.8	11.5	20.7
27	0.2	0.3	0.4	0.6	1.1	4.1	5.1	6.9	11.6	20.8
28	0.2	0.3	0.4	0.6	1.1	4.2	5.2	7.0	11.7	20.9
29	0.2	0.3	0.4	0.6	1.1	4.3	5.3	7.1	11.8	21.0
30	0.2	0.3	0.4	0.6	1.1	4.4	5.4	7.2	11.9	21.1
31	0.2	0.3	0.4	0.6	1.1	4.5	5.5	7.3	12.0	21.2
32	0.2	0.3	0.4	0.6	1.1	4.6	5.6	7.4	12.1	21.3
33	0.2	0.3	0.4	0.6	1.1	4.7	5.7	7.5	12.2	21.4
34	0.2	0.3	0.4	0.6	1.1	4.8	5.8	7.6	12.3	21.5
35	0.2	0.3	0.4	0.6	1.1	4.9	5.9	7.7	12.4	21.6
36	0.2	0.3	0.4	0.6	1.1	5.0	6.0	7.8	12.5	21.7
37	0.2	0.3	0.4	0.6	1.1	5.1	6.1	7.9	12.6	21.8
38	0.2	0.3	0.4	0.6	1.1	5.2	6.2	8.0	12.7	21.9
39	0.2	0.3	0.4	0.6	1.1	5.3	6.3	8.1	12.8	22.0
40	0.2	0.3	0.4	0.6	1.1	5.4	6.4	8.2	12.9	22.1
41	0.2	0.3	0.4	0.6	1.1	5.5	6.5	8.3	13.0	22.2
42	0.2	0.3	0.4	0.6	1.1	5.6	6.6	8.4	13.1	22.3
43	0.2	0.3	0.4	0.6	1.1	5.7	6.7	8.5	13.2	22.4
44	0.2	0.3	0.4	0.6	1.1	5.8	6.8	8.6	13.3	22.5
45	0.2	0.3	0.4	0.6	1.1	5.9	6.9	8.7	13.4	22.6
46	0.2	0.3	0.4	0.6	1.1	6.0	7.0	8.8	13.5	22.7
47	0.2	0.3	0.4	0.6	1.1	6.1	7.1	8.9	13.6	22.8
48	0.2	0.3	0.4	0.6	1.1	6.2	7.2	9.0	13.7	22.9
49	0.2	0.3	0.4	0.6	1.1	6.3	7.3	9.1	13.8	23.0
50	0.2	0.3	0.4	0.6	1.1	6.4	7.4	9.2	13.9	23.1

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	1.9	2.7	52	0.1	0.3	0.9	2.4	6.5	13.0	21.2	25.5							
3	0.2	0.3	0.3	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	2.0	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	0.6	0.9	1.3	1.7	2.4	3.8	5.1	68	0.1	0.2	0.6	1.7	4.7	12.9	32.6	47.3							
19	0.3	0.6	1.0	1.3	1.8	2.6	3.9	5.4	69	0.1	0.2	0.6	1.6	4.6	12.7	32.9	48.1							
20	0.3	0.6	1.0	1.4	1.9	2.7	4.1	5.6	70	0.1	0.2	0.5	1.5	4.5	12.5	33.0	49.9							
21	0.3	0.6	1.1	1.5	2.0	2.9	4.3	5.8	71	0.1	0.2	0.5	1.5	4.4	12.4	33.0	49.6							
22	0.2	0.6	1.1	1.6	2.2	3.0	4.6	6.1	72	0.1	0.2	0.5	1.5	4.3	12.2	32.8	50.3							
23	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.4	73	0.1	0.2	0.5	1.4	4.2	11.9	32.4	51.0							
24	0.2	0.6	1.2	1.8	2.5	3.4	5.1	6.7	74	0.1	0.2	0.5	1.4	4.1	11.7	31.8	51.5							
25	0.2	0.6	1.2	1.9	2.6	3.6	5.3	7.0	75	0.1	0.2	0.5	1.4	4.0	11.5	31.2	52.0							
26	0.2	0.6	1.2	2.0	2.8	3.8	5.6	7.3	76	0.1	0.2	0.5	1.3	3.9	11.3	30.7	52.2							
27	0.2	0.6	1.3	2.1	2.9	4.0	5.9	7.7	77	0.1	0.2	0.5	1.3	3.8	11.1	30.2	52.2							
28	0.2	0.6	1.3	2.2	3.1	4.3	6.2	8.1	78	0.1	0.2	0.5	1.3	3.7	10.9	29.8	52.0							
29	0.2	0.5	1.3	2.3	3.3	4.5	6.6	8.4	79	0.1	0.2	0.5	1.2	3.6	10.7	29.4	51.5							
30	0.2	0.5	1.3	2.4	3.5	4.8	6.9	8.8	80	0.1	0.2	0.5	1.2	3.5	10.4	29.0	50.7							
31	0.2	0.5	1.3	2.5	3.7	5.1	7.3	9.2	81	0.1	0.2	0.5	1.2	3.4	10.2	28.6	49.7							
32	0.2	0.5	1.3	2.5	3.9	5.4	7.6	9.7	82	0.1	0.2	0.5	1.2	3.4	10.0	28.3	48.9							
33	0.2	0.5	1.3	2.6	4.1	5.7	8.1	10.2	83	0.1	0.2	0.5	1.2	3.4	9.9	27.9	48.2							
34	0.2	0.5	1.3	2.7	4.3	6.0	8.5	10.7	84	0.1	0.2	0.5	1.2	3.3	9.7	27.4	47.5							
35	0.2	0.5	1.3	2.7	4.6	6.3	8.9	11.2	85	0.1	0.2	0.5	1.1	3.2	9.5	27.0	46.9							
36	0.2	0.5	1.2	2.8	4.8	6.7	9.4	11.8	86	0.1	0.2	0.5	1.1	3.1	9.2	26.5	46.3							
37	0.2	0.5	1.2	2.8	5.0	7.1	9.9	12.4	87	0.1	0.2	0.5	1.1	3.0	9.0	26.1	45.7							
38	0.2	0.5	1.2	2.9	5.2	7.5	10.4	13.0	88	0.1	0.2	0.5	1.1	3.0	8.8	25.6	45.3							
39	0.2	0.5	1.2	2.9	5.3	7.9	11.0	13.6	89	0.1	0.2	0.5	1.1	2.9	8.6	25.1	44.6							
40	0.1	0.4	1.1	2.9	5.5	8.4	11.6	14.3	90	0.1	0.3	0.5	1.1	2.9	8.5	24.7	44.0							
41	0.1	0.4	1.1	2.9	5.7	8.8	12.2	15.0	91	0.1	0.3	0.5	1.1	2.8	8.3	24.2	43.3							
42	0.1	0.4	1.1	2.9	5.8	9.2	12.8	15.6	92	0.1	0.3	0.5	1.1	2.8	8.2	23.8	42.6							
43	0.1	0.4	1.1	2.9	5.9	9.7	13.5	16.4	93	0.1	0.3	0.5	1.1	2.7	8.0	23.3	41.9							
44	0.1	0.4	1.0	2.8	6.0	10.1	14.3	17.4	94	0.1	0.3	0.5	1.1	2.7	7.8	22.9	41.2							
45	0.1	0.4	1.0	2.8	6.1	10.6	15.0	18.3	95	0.1	0.3	0.5	1.1	2.7	7.6	22.5	40.5							
46	0.1	0.3	1.0	2.7	6.2	11.0	15.8	19.2	96	0.1	0.3	0.5	1.1	2.6	7.4	22.1	39.8							
47	0.1	0.3	1.0	2.6	6.3	11.4	16.7	20.2	97	0.1	0.3	0.5	1.1	2.6	7.3	21.6	39.0							
48	0.1	0.3	0.9	2.6	6.4	11.8	17.6	21.2	98	0.1	0.3	0.5	1.1	2.6	7.1	21.2	38.2							
49	0.1	0.3	0.9	2.5	6.5	12.1	18.5	22.3	99	0.1	0.3	0.6	1.1	2.5	7.0	20.7	37.6							
50	0.1	0.3	0.9	2.5	6.5	12.5	19.4	23.4	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	2.6	4.1	5.6	7.9	10.1	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	4.3	5.9	8.4	10.6	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	4.5	6.2	8.9	11.1	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	4.7	6.6	9.3	11.7	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	2.6	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	0.6	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	P	0.3	0.5	0.9	1.1	1.5	2.2	3.4	4.7	62	0.1	0.2	0.5	1.6	4.6	12.6	30.2	43.3
13	R	0.3	0.5	0.9	1.2	1.6	2.3	3.6	4.9	63	0.1	0.2	0.5	1.5	4.5	12.4	30.6	44.1
14	E	0.3	0.5	0.9	1.1	1.5	2.2	3.4	4.7	64	0.1	0.2	0.5	1.5	4.5	12.4	30.6	44.1
15	T	0.3	0.5	0.9	1.1	1.5	2.2	3.4	4.7	65	0.1	0.2	0.5	1.5	4.3	12.1	31.1	45.7
16	P	0.3	0.5	0.9	1.1	1.5	2.2	3.4	4.7	66	0.1	0.2	0.5	1.5	4.2	11.8	31.2	45.5
17	R	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	E	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	T	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	30.9	48.9
20	P	0.2	0.6	1.1	1.6	2.2	3.1	4.6	6.1	70	0.1	0.2	0.5	1.3	3.8	10.9	29.3	49.3
21	R	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.4	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	T	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	10.3	29.3	49.3
24	P	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	R	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	E	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	T	0.2	0.5	1.3	2.4	3.6	4.9	7.0	9.4	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	2.5	4.0	5.4	7.8	9.9	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	4.2	5.8	8.2	10.3	81	0.1	0.2	0.5	1.1	3.0	8.8	25.2	44.0
32	P	0.2	0.4	1.2	2.6	4.4	6.1	8.6	10.9	82	0.1	0.2	0.5	1.0	2.9	8.6	24.8	43.4
33	R	0.2	0.4	1.2	2.7	4.6	6.5	9.1	11.4	83	0.1	0.2	0.5	1.0	2.9	8.4	24.4	42.9
34	E	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	T	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	8.0	23.5	41.1
36	P	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	7.9	23.0	40.4
37	R	0.1	0.4	1.1	2.8	5.3	8.1	11.3	13.9	87	0.1	0.2	0.5	1.0	2.6	7.8	22.6	40.4
38	E	0.1	0.4	1.0	2.8	5.4	8.5	11.9	14.6	88	0.1	0.2	0.5	1.0	2.7	7.6	22.1	39.8
39	T	0.1	0.4	1.0	2.7	5.6	9.0	12.5	15.4	89	0.1	0.2	0.5	1.0	2.5	7.4	21.7	39.1
40	P	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	7.2	21.3	38.4
41	R	0.1	0.3	1.0	2.7	5.8	9.9	13.9	17.0	91	0.1	0.2	0.5	1.0	2.5	7.1	20.9	37.7
42	E	0.1	0.3	1.0	2.6	5.9	10.3	14.7	17.9	92	0.1	0.2	0.5	1.0	2.4	6.9	20.5	37.0
43	T	0.1	0.3	0.9	2.5	6.0	10.7	15.5	18.8	93	0.1	0.2	0.5	1.0	2.4	6.7	20.1	36.3
44	P	0.1	0.3	0.9	2.4	6.1	11.1	16.3	19.8	94	0.1	0.2	0.5	1.1	2.4	6.6	19.6	35.7
45	R	0.1	0.3	0.9	2.4	6.2	11.7	18.1	21.9	95	0.1	0.2	0.5	1.1	2.4	6.5	19.2	35.0
46	E	0.1	0.3	0.8	2.4	6.2	12.0	19.0	23.1	96	0.1	0.2	0.5	1.1	2.4	6.3	18.4	34.4
47	T	0.1	0.3	0.8	2.3	6.2	12.3	19.9	24.4	97	0.1	0.2	0.5	1.1	2.4	6.2	18.5	33.4
48	P	0.1	0.3	0.8	2.3	6.1	12.6	20.8	25.5	98	0.1	0.2	0.5	1.1	2.3	6.1	18.2	32.5
49	R	0.1	0.3	0.8	2.2	6.0	12.8	21.8	26.9	99	0.1	0.2	0.6	1.1	2.3	6.0	17.8	31.6
50	E	0.1	0.3	0.8	2.2	5.8	13.0	22.7	28.3	100	0.1	0.2	0.6	1.1	2.3	5.9	17.4	31.0

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	5.7	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	6.2	7.8	12.8
19	0.2	0.6	1.1	1.8	2.4	3.3	5.0	6.5	8.1	13.1
20	0.2	0.6	1.1	1.9	2.5	3.5	5.2	6.8	8.4	13.4
21	0.2	0.6	1.2	2.0	2.7	3.7	5.5	7.2	8.7	13.7
22	0.2	0.5	1.2	2.1	2.9	3.9	5.8	7.5	9.0	14.0
23	0.2	0.5	1.2	2.1	3.0	4.2	6.1	7.8	9.3	14.3
24	0.2	0.5	1.2	2.2	3.2	4.4	6.4	8.1	9.6	14.6
25	0.2	0.5	1.2	2.3	3.4	4.7	6.7	8.4	9.9	14.9
26	0.2	0.5	1.2	2.4	3.6	5.0	7.1	8.8	10.2	15.2
27	0.2	0.5	1.2	2.4	3.8	5.3	7.5	9.2	10.5	15.5
28	0.2	0.5	1.2	2.5	4.1	5.6	7.9	10.1	11.1	15.8
29	0.2	0.4	1.2	2.6	4.3	5.9	8.4	10.6	11.6	16.1
30	0.2	0.4	1.2	2.6	4.5	6.3	8.8	11.1	12.1	16.4
31	0.1	0.4	1.1	2.6	4.7	6.7	9.3	11.7	12.7	16.7
32	0.1	0.4	1.1	2.7	4.9	7.0	9.8	12.3	13.3	17.0
33	0.1	0.4	1.1	2.7	5.0	7.5	10.4	12.9	13.9	17.3
34	0.1	0.4	1.1	2.7	5.2	7.9	11.0	13.6	14.6	17.6
35	0.1	0.4	1.0	2.7	5.3	8.3	11.6	14.3	15.3	17.9
36	0.1	0.4	1.0	2.7	5.4	8.7	12.2	15.0	16.0	18.2
37	0.1	0.4	1.0	2.7	5.6	9.2	12.9	15.8	16.8	18.5
38	0.1	0.3	1.0	2.6	5.7	9.6	13.6	16.6	17.6	18.8
39	0.1	0.3	0.9	2.5	5.8	10.0	14.3	17.5	18.5	19.1
40	0.1	0.3	0.9	2.5	5.8	10.4	15.1	18.4	19.4	19.4
41	0.1	0.3	0.9	2.4	5.9	10.8	16.0	19.4	20.4	19.7
42	0.1	0.3	0.9	2.4	6.0	11.2	16.9	20.4	21.4	20.0
43	0.1	0.3	0.8	2.3	6.0	11.5	17.7	21.5	22.5	20.3
44	0.1	0.3	0.8	2.3	6.1	11.8	18.6	22.6	23.6	20.6
45	0.1	0.3	0.8	2.3	6.0	12.1	19.5	23.8	24.8	20.9
46	0.1	0.3	0.8	2.2	6.0	12.3	20.4	25.0	26.0	21.2
47	0.1	0.3	0.8	2.2	5.8	12.5	21.4	26.4	27.4	21.5
48	0.1	0.3	0.7	2.1	5.7	12.8	22.3	27.7	28.7	21.8
49	0.1	0.2	0.7	2.1	5.6	13.0	23.1	29.0	30.0	22.1
50	0.1	0.2	0.7	2.0	5.5	13.1	23.9	30.4	31.4	22.4

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	8000		
1	T 10	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2	5.1	0.1	0.2	0.6	1.0	5.1	13.2	25.5	33.9
2	2	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3	5.2	0.1	0.2	0.6	1.8	5.0	13.2	26.1	35.1
3	3	0.2	0.4	0.5	0.7	1.0	1.4	2.3	3.4	5.3	0.1	0.2	0.6	1.7	4.9	13.1	26.7	36.4
4	4	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5	5.4	0.1	0.2	0.6	1.7	4.8	13.0	27.2	37.6
5	5	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7	5.5	0.1	0.2	0.6	1.7	4.7	12.7	27.7	38.7
6	6	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.8	5.6	0.1	0.2	0.5	1.6	4.6	12.4	28.1	39.7
7	7	0.3	0.5	0.6	0.9	1.2	1.8	2.8	4.0	5.7	0.1	0.2	0.5	1.6	4.5	12.2	28.6	40.7
8	8	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2	5.8	0.1	0.2	0.5	1.5	4.4	12.0	29.0	41.6
9	9	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4	5.9	0.1	0.2	0.5	1.5	4.3	11.8	29.3	42.4
10	T 11	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6	6.0	0.1	0.2	0.5	1.5	4.2	11.6	29.6	43.2
11	E 11	0.3	0.5	0.8	1.1	1.6	2.2	3.5	4.8	6.1	0.1	0.2	0.5	1.4	4.1	11.4	29.8	43.9
12	M 12	0.3	0.5	0.9	1.2	1.7	2.4	3.7	5.0	6.2	0.1	0.2	0.5	1.4	4.0	11.2	29.8	44.6
13	P 13	0.2	0.5	0.9	1.2	1.7	2.5	3.8	5.2	6.3	0.1	0.2	0.5	1.4	3.9	11.0	29.7	45.3
14	E 14	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5	6.4	0.1	0.2	0.5	1.3	3.8	10.8	29.4	45.9
15	R 15	0.2	0.6	1.0	1.5	2.0	2.8	4.3	5.7	6.5	0.1	0.2	0.4	1.3	3.7	10.6	28.9	46.4
16	A 16	0.2	0.6	1.1	1.6	2.1	3.0	4.5	6.0	6.6	0.1	0.2	0.4	1.2	3.6	10.4	28.2	46.9
17	T 17	0.2	0.6	1.1	1.7	2.3	3.2	4.7	6.3	6.7	0.1	0.2	0.4	1.2	3.5	10.2	27.8	47.1
18	U 18	0.2	0.6	1.1	1.8	2.4	3.4	5.0	6.6	6.8	0.1	0.2	0.4	1.2	3.5	10.0	27.3	47.1
19	R 19	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9	6.9	0.1	0.2	0.4	1.1	3.4	9.8	26.9	46.9
20	E 20	0.2	0.5	1.2	2.0	2.7	3.8	5.6	7.3	7.0	0.1	0.2	0.4	1.1	3.3	9.6	26.5	46.5
21	S 21	0.2	0.5	1.2	2.1	2.9	4.0	5.9	7.6	7.1	0.1	0.2	0.4	1.1	3.2	9.4	26.1	45.7
22	D 22	0.2	0.5	1.2	2.2	3.1	4.3	6.2	8.0	7.2	0.1	0.2	0.4	1.1	3.2	9.2	25.8	44.7
23	D 23	0.2	0.5	1.2	2.2	3.2	4.5	6.5	8.4	7.3	0.1	0.2	0.4	1.1	3.1	9.0	25.4	44.0
24	E 24	0.2	0.5	1.2	2.3	3.5	4.8	6.9	8.8	7.4	0.1	0.2	0.4	1.0	3.0	8.8	25.0	43.3
25	G 25	0.2	0.5	1.2	2.4	3.7	5.1	7.3	9.3	7.5	0.1	0.2	0.4	1.0	2.9	8.7	24.6	42.7
26	E 26	0.2	0.5	1.2	2.4	3.9	5.4	7.7	9.7	7.6	0.1	0.2	0.4	1.0	2.8	8.5	24.2	42.1
27	E 27	0.2	0.4	1.2	2.5	4.1	5.7	8.1	10.2	7.7	0.1	0.2	0.4	1.0	2.7	8.3	23.8	41.5
28	E 28	0.2	0.4	1.2	2.5	4.3	6.0	8.5	10.8	7.8	0.1	0.2	0.4	1.0	2.7	8.1	23.3	41.0
29	S 29	0.1	0.4	1.1	2.6	4.5	6.4	9.5	11.3	7.9	0.1	0.2	0.5	1.0	2.6	7.9	22.9	40.5
30	F 30	0.1	0.4	1.1	2.6	4.7	6.8	9.5	11.9	8.0	0.1	0.2	0.5	1.0	2.6	7.7	22.4	39.9
31	A 31	0.1	0.4	1.1	2.7	4.9	7.2	10.0	12.5	8.1	0.1	0.2	0.5	1.0	2.6	7.6	22.0	39.3
32	R 32	0.1	0.4	1.1	2.7	5.0	7.6	10.6	13.2	8.2	0.1	0.2	0.5	1.0	2.5	7.4	21.6	38.7
33	M 33	0.1	0.4	1.0	2.7	5.2	8.0	11.2	13.8	8.3	0.1	0.2	0.5	1.0	2.5	7.2	21.2	38.0
34	E 34	0.1	0.3	1.0	2.6	5.4	8.5	12.5	15.1	8.4	0.1	0.2	0.5	1.0	2.4	7.1	20.8	37.3
35	N 35	0.1	0.3	1.0	2.6	5.6	8.9	13.2	16.1	8.5	0.1	0.2	0.5	1.0	2.4	6.9	20.4	36.7
36	I 36	0.1	0.3	0.9	2.5	5.6	9.4	13.9	17.0	8.6	0.1	0.2	0.5	1.0	2.4	6.7	20.0	36.0
37	E 37	0.1	0.3	0.9	2.5	5.7	9.8	14.7	17.9	8.7	0.1	0.2	0.5	1.0	2.3	6.6	19.6	35.4
38	E 38	0.1	0.3	0.9	2.4	5.8	10.5	15.5	18.8	8.8	0.1	0.2	0.5	1.0	2.3	6.4	19.2	34.7
39	T 39	0.1	0.3	0.9	2.4	5.9	10.9	16.4	19.8	8.9	0.1	0.2	0.5	1.0	2.3	6.3	18.7	34.0
40	T 40	0.1	0.3	0.8	2.3	5.9	11.2	17.3	20.9	9.0	0.1	0.2	0.5	1.0	2.3	6.2	18.3	33.4
41	41	0.1	0.3	0.8	2.3	5.9	11.5	18.1	22.0	9.1	0.1	0.2	0.5	1.0	2.3	6.0	18.0	32.8
42	42	0.1	0.3	0.8	2.3	5.9	11.8	19.0	23.2	9.2	0.1	0.2	0.5	1.0	2.2	5.9	17.6	32.2
43	43	0.1	0.3	0.8	2.2	5.9	12.0	19.9	24.4	9.3	0.1	0.2	0.5	1.0	2.2	5.8	17.3	31.7
44	44	0.1	0.3	0.7	2.1	5.7	12.3	20.8	25.7	9.4	0.1	0.2	0.5	1.0	2.2	5.7	17.0	31.0
45	45	0.1	0.3	0.7	2.1	5.7	12.5	21.8	27.1	9.5	0.1	0.2	0.5	1.0	2.2	5.6	16.6	30.4
46	46	0.1	0.2	0.7	2.0	5.6	12.7	22.6	28.3	9.6	0.1	0.2	0.5	1.0	2.2	5.5	16.2	29.7
47	47	0.1	0.2	0.7	2.0	5.5	12.9	23.4	29.7	9.7	0.1	0.2	0.5	1.0	2.2	5.4	15.9	29.1
48	48	0.1	0.2	0.7	2.0	5.4	13.0	24.1	31.0	9.8	0.1	0.2	0.5	1.0	2.2	5.3	15.5	28.5
49	49	0.1	0.2	0.6	1.9	5.2	13.2	24.8	32.4	9.9	0.1	0.2	0.6	1.1	2.2	5.3	15.1	28.0
50	50	0.1	0.2	0.6	1.9	5.2	13.2	24.8	32.4	100	0.1	0.2	0.6	1.1	2.2	5.3	14.8	27.5

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB ARE 1000 FT FOR FULL OCTAVE BANDS
OF NOISE AS A FUNCTION OF TEMPERATURE F₅₀ IN PERCENT RELATIVE HUMIDITY

	RAND CENTER FREQUENCY, M7					RAND CENTER FREQUENCY, M7					RAND CENTER FREQUENCY, M7				
	63	125	250	500	1000	2000	4000	8000	16000	31500	63	125	250	500	1000
1	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3			51	0.1	0.2	0.6	1.7
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
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	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
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
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
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
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
9	0.3	0.5	0.8	1.1	1.6	2.1	3.3	4.6			59	0.1	0.2	0.5	1.4
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
25	0.2	0.5	1.2	2.4	3.9	5.5	7.8	9.8			75	0.1	0.2	0.4	1.0
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
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
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
29	0.1	0.4	1.1	2.6	4.9	7.3	9.7	12.1			79	0.1	0.2	0.4	1.0
30	0.1	0.4	1.0	2.6	5.0	7.3	10.2	12.7			80	0.1	0.2	0.5	1.0
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
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
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
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
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
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
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
38	0.1	0.3	0.8	2.3	5.8	10.9	16.7	20.2			88	0.1	0.2	0.5	1.0
39	0.1	0.3	0.8	2.2	5.8	11.2	17.5	21.3			89	0.1	0.2	0.5	1.0
40	0.1	0.3	0.8	2.2	5.8	11.5	18.4	22.4			90	0.1	0.3	0.5	1.0
41	0.1	0.3	0.8	2.1	5.8	11.7	19.3	23.6			91	0.1	0.3	0.5	1.0
42	0.1	0.3	0.8	2.1	5.7	12.0	20.2	24.9			92	0.1	0.3	0.5	1.0
43	0.1	0.3	0.7	2.1	5.7	12.2	21.1	26.2			93	0.1	0.3	0.5	1.0
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
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
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
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
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
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
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

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					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	31500	63	125	250	500	1000	2000	4000	8000	16000	31500
1	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5			51	0.1	0.2	0.5	1.5	4.3	11.7	26.7	37.8	
2	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7			52	0.1	0.2	0.5	1.5	4.2	11.5	27.1	38.8	
3	0.2	0.4	0.6	0.8	1.1	1.7	2.7	3.8			53	0.1	0.2	0.5	1.4	4.1	11.3	27.5	39.6	
4	0.2	0.4	0.7	0.9	1.2	1.8	2.8	4.0			54	0.1	0.2	0.5	1.4	4.0	11.1	27.8	40.3	
5	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2			55	0.1	0.2	0.5	1.4	3.9	10.9	28.1	41.1	
6	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4			56	0.1	0.2	0.5	1.3	3.8	10.7	28.2	41.8	
7	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6			57	0.1	0.2	0.4	1.3	3.7	10.5	28.1	42.4	
8	0.2	0.5	0.6	1.1	1.6	2.2	3.5	4.8			58	0.1	0.2	0.4	1.2	3.7	10.3	27.9	43.0	
9	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0			59	0.1	0.2	0.4	1.2	3.6	10.1	27.5	43.5	
10	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2			60	0.1	0.2	0.4	1.2	3.5	9.9	26.9	44.0	
11	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5			61	0.1	0.2	0.4	1.1	3.4	9.7	26.4	44.4	
12	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.8			62	0.1	0.2	0.4	1.1	3.3	9.5	25.9	44.5	
13	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.1			63	0.1	0.2	0.4	1.1	3.2	9.3	25.5	44.4	
14	0.2	0.5	1.1	1.7	2.3	3.2	4.8	6.4			64	0.1	0.2	0.4	1.1	3.1	9.1	25.1	44.0	
15	0.2	0.5	1.1	1.8	2.5	3.4	5.1	6.7			65	0.1	0.2	0.4	1.0	3.0	8.9	24.7	43.3	
16	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0			66	0.1	0.2	0.4	1.0	2.9	8.7	24.4	42.4	
17	0.2	0.5	1.1	2.0	2.8	3.9	5.6	7.4			67	0.1	0.2	0.4	1.0	2.9	8.5	24.1	41.7	
18	0.2	0.5	1.2	2.1	3.0	4.1	6.0	7.7			68	0.1	0.2	0.4	1.0	2.8	8.3	23.7	41.0	
19	0.2	0.5	1.2	2.2	3.2	4.3	6.3	8.1			69	0.1	0.2	0.4	1.0	2.8	8.2	23.3	40.3	
20	0.2	0.5	1.2	2.2	3.4	4.6	6.7	8.5			70	0.1	0.2	0.4	1.0	2.7	8.0	22.8	39.7	
21	0.2	0.4	1.2	2.3	3.6	4.9	7.0	9.0			71	0.1	0.2	0.4	0.9	2.6	7.8	22.4	39.2	
22	0.2	0.4	1.2	2.3	3.8	5.2	7.4	9.5			72	0.1	0.2	0.4	0.9	2.6	7.6	22.0	38.6	
23	0.2	0.4	1.1	2.4	4.0	5.5	7.9	9.9			73	0.1	0.2	0.4	0.9	2.5	7.4	21.6	38.2	
24	0.1	0.4	1.1	2.4	4.2	5.9	8.3	10.4			74	0.1	0.2	0.4	0.9	2.5	7.3	21.1	37.6	
25	0.1	0.4	1.1	2.5	4.4	6.2	8.8	11.0			75	0.1	0.2	0.4	0.9	2.4	7.1	20.7	37.0	
26	0.1	0.4	1.0	2.5	4.6	6.6	9.3	11.6			76	0.1	0.2	0.4	0.9	2.4	7.0	20.3	36.4	
27	0.1	0.4	1.0	2.5	4.7	7.0	9.8	12.2			77	0.1	0.2	0.4	0.9	2.3	6.8	19.9	35.7	
28	0.1	0.4	1.0	2.6	4.9	7.5	10.4	12.9			78	0.1	0.2	0.4	0.9	2.3	6.7	19.5	35.1	
29	0.1	0.4	1.0	2.6	5.0	7.8	11.0	13.6			79	0.1	0.2	0.4	0.9	2.2	6.5	19.1	34.5	
30	0.1	0.3	0.9	2.5	5.1	8.3	11.6	14.3			80	0.1	0.2	0.5	0.9	2.2	6.3	18.8	33.8	
31	0.1	0.3	0.9	2.5	5.2	8.7	12.3	15.1			81	0.1	0.2	0.5	0.9	2.2	6.2	18.4	33.2	
32	0.1	0.3	0.9	2.4	5.3	9.1	13.0	15.9			82	0.1	0.2	0.5	0.9	2.1	6.0	18.0	32.5	
33	0.1	0.3	0.9	2.4	5.4	9.5	13.7	16.7			83	0.1	0.2	0.5	0.9	2.1	5.9	17.6	31.9	
34	0.1	0.3	0.9	2.3	5.5	9.9	14.5	17.6			84	0.1	0.2	0.5	0.9	2.1	5.8	17.2	31.3	
35	0.1	0.3	0.8	2.3	5.6	10.2	15.3	18.6			85	0.1	0.2	0.5	1.0	2.1	5.7	16.8	30.7	
36	0.1	0.3	0.8	2.2	5.6	10.6	16.2	19.6			86	0.1	0.2	0.5	1.0	2.1	5.5	16.5	30.2	
37	0.1	0.3	0.8	2.2	5.6	10.9	17.0	20.7			87	0.1	0.2	0.5	1.0	2.1	5.4	16.2	29.6	
38	0.1	0.3	0.8	2.1	5.6	11.1	17.9	21.6			88	0.1	0.2	0.5	1.0	2.1	5.3	15.9	29.0	
39	0.1	0.3	0.7	2.1	5.6	11.4	18.7	23.0			89	0.1	0.2	0.5	1.0	2.1	5.3	15.5	28.4	
40	0.1	0.2	0.7	2.0	5.5	11.6	19.7	24.3			90	0.1	0.3	0.5	1.0	2.1	5.2	15.2	27.8	
41	0.1	0.2	0.7	2.0	5.3	11.8	20.6	25.6			91	0.1	0.3	0.5	1.0	2.1	5.1	14.8	27.2	
42	0.1	0.2	0.7	1.9	5.2	12.0	21.4	26.8			92	0.1	0.3	0.5	1.0	2.1	5.1	14.5	26.7	
43	0.1	0.2	0.6	1.9	5.1	12.2	22.2	28.1			93	0.1	0.3	0.5	1.0	2.1	5.0	14.1	26.2	
44	0.1	0.2	0.6	1.8	5.0	12.3	22.9	29.4			94	0.1	0.3	0.5	1.1	2.1	4.9	13.8	25.7	
45	0.1	0.2	0.6	1.8	4.9	12.5	23.6	30.8			95	0.1	0.3	0.5	1.1	2.2	4.9	13.6	25.2	
46	0.1	0.2	0.6	1.7	4.8	12.5	24.2	32.2			96	0.1	0.3	0.5	1.1	2.2	4.9	13.3	24.7	
47	0.1	0.2	0.6	1.7	4.7	12.5	24.8	33.4			97	0.1	0.3	0.5	1.1	2.2	4.9	13.1	24.1	
48	0.1	0.2	0.6	1.6	4.6	12.4	25.3	34.6			98	0.1	0.3	0.5	1.1	2.2	4.9	12.8	23.6	
49	0.1	0.2	0.5	1.6	4.5	12.2	25.8	35.8			99	0.1	0.3	0.6	1.1	2.2	4.8	12.6	23.0	
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	12.4	22.6	

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	6.0	7.3	8.9	10.9
11	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7	6.1	7.4	9.0	11.0
12	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0	6.3	7.5	9.1	11.1
13	0.2	0.5	1.1	1.7	2.3	3.2	4.8	6.3	6.4	7.6	9.2	11.2
14	0.2	0.5	1.1	1.8	2.5	3.4	5.1	6.6	6.5	7.7	9.3	11.3
15	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0	6.6	7.8	9.4	11.4
16	0.2	0.5	1.1	2.0	2.8	3.8	5.6	7.3	6.7	7.9	9.5	11.5
17	0.2	0.5	1.1	2.1	3.0	4.1	6.0	7.7	6.8	8.0	9.6	11.6
18	0.2	0.5	1.2	2.1	3.2	4.3	6.3	8.1	6.9	8.1	9.7	11.7
19	0.2	0.4	1.2	2.2	3.4	4.6	6.7	8.5	6.9	8.2	9.8	11.8
20	0.2	0.4	1.2	2.3	3.6	4.9	7.0	9.0	6.9	8.3	9.9	11.9
21	0.2	0.4	1.1	2.3	3.8	5.2	7.4	9.5	6.9	8.4	10.0	12.0
22	0.1	0.4	1.1	2.4	4.0	5.5	7.9	10.0	6.9	8.5	10.1	12.1
23	0.1	0.4	1.1	2.4	4.2	5.9	8.3	10.5	6.9	8.6	10.2	12.2
24	0.1	0.4	1.0	2.5	4.4	6.3	8.8	11.0	6.9	8.7	10.3	12.3
25	0.1	0.4	1.0	2.5	4.5	6.6	9.3	11.6	6.9	8.8	10.4	12.4
26	0.1	0.4	1.0	2.5	4.7	7.1	9.8	12.2	6.9	8.9	10.5	12.5
27	0.1	0.4	1.0	2.5	4.8	7.5	10.4	12.9	6.9	9.0	10.6	12.6
28	0.1	0.3	1.0	2.5	5.0	7.9	11.0	13.6	6.9	9.1	10.7	12.7
29	0.1	0.3	0.9	2.5	5.1	8.3	11.6	14.3	6.9	9.2	10.8	12.8
30	0.1	0.3	0.9	2.4	5.2	8.7	12.3	15.1	6.9	9.3	10.9	12.9
31	0.1	0.3	0.9	2.4	5.3	9.1	13.0	15.9	6.9	9.4	11.0	13.0
32	0.1	0.3	0.9	2.3	5.4	9.5	13.8	16.9	6.9	9.5	11.1	13.1
33	0.1	0.3	0.8	2.3	5.4	9.9	14.6	17.7	6.9	9.6	11.2	13.2
34	0.1	0.3	0.8	2.2	5.5	10.2	15.4	18.7	6.9	9.7	11.3	13.3
35	0.1	0.3	0.8	2.2	5.6	10.5	16.3	19.7	6.9	9.8	11.4	13.4
36	0.1	0.3	0.8	2.1	5.6	10.8	17.1	20.8	6.9	9.9	11.5	13.5
37	0.1	0.3	0.7	2.1	5.5	11.1	17.9	21.9	6.9	10.0	11.6	13.6
38	0.1	0.2	0.7	2.0	5.5	11.3	18.8	23.2	6.9	10.1	11.7	13.7
39	0.1	0.2	0.7	2.0	5.3	11.5	19.7	24.4	6.9	10.2	11.8	13.8
40	0.1	0.2	0.7	1.9	5.2	11.7	20.6	25.7	6.9	10.3	11.9	13.9
41	0.1	0.2	0.7	1.9	5.1	11.9	21.4	27.0	6.9	10.4	12.0	14.0
42	0.1	0.2	0.6	1.8	5.0	12.1	22.1	28.3	6.9	10.5	12.1	14.1
43	0.1	0.2	0.6	1.8	4.9	12.2	22.9	29.6	6.9	10.6	12.2	14.2
44	0.1	0.2	0.6	1.7	4.8	12.3	23.5	31.0	6.9	10.7	12.3	14.3
45	0.1	0.2	0.6	1.7	4.7	12.3	24.1	32.3	6.9	10.8	12.4	14.4
46	0.1	0.2	0.6	1.6	4.6	12.3	24.7	33.5	6.9	10.9	12.5	14.5
47	0.1	0.2	0.5	1.6	4.5	12.2	25.2	34.6	6.9	11.0	12.6	14.6
48	0.1	0.2	0.5	1.6	4.4	11.9	25.6	35.7	6.9	11.1	12.7	14.7
49	0.1	0.2	0.5	1.5	4.3	11.6	26.1	36.8	6.9	11.2	12.8	14.8
50	0.1	0.2	0.5	1.5	4.2	11.4	26.5	37.7	6.9	11.3	12.9	14.9

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	A	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	E	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	S	79	0.1	0.2	0.4	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	F	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	A	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	M	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	P	84	0.1	0.2	0.5	0.9	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	E	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	22.0	M	86	0.1	0.2	0.5	1.0	2.0	5.0	14.5	26.5		
37	0.1	0.2	0.7	2.0	5.3	11.4	19.4	23.2	M	87	0.1	0.2	0.5	1.0	2.0	4.9	14.1	25.9		
38	0.1	0.2	0.7	1.9	5.2	11.6	20.6	24.5	E	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		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		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		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		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		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		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		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		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	26.3	37.5		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	26.6	38.4		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	26.9	39.1		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	5.0	7.8	11.0	14.3	14.3	6.3	7.9	10.3
27	0.1	0.3	0.9	2.6	5.2	8.2	11.6	15.1	15.1	6.3	7.9	10.3
28	0.1	0.3	0.9	2.6	5.4	8.7	12.3	16.0	16.0	6.3	7.9	10.3
29	0.1	0.3	0.8	2.6	5.7	9.1	13.0	16.9	16.9	6.3	7.9	10.3
30	0.1	0.3	0.8	2.7	5.9	9.4	13.8	17.8	17.8	6.3	7.9	10.3
31	0.1	0.3	0.6	2.7	6.2	9.8	14.6	18.7	18.7	6.3	7.9	10.3
32	0.1	0.3	0.6	2.8	6.5	10.1	15.4	19.7	19.7	6.3	7.9	10.3
33	0.1	0.3	0.7	2.8	6.8	10.4	16.2	20.6	20.6	6.3	7.9	10.3
34	0.1	0.3	0.7	2.9	7.1	10.7	17.1	21.5	21.5	6.3	7.9	10.3
35	0.1	0.2	0.7	2.9	7.4	10.9	17.9	22.4	22.4	6.3	7.9	10.3
36	0.1	0.2	0.7	3.0	7.7	11.1	18.8	23.3	23.3	6.3	7.9	10.3
37	0.1	0.2	0.7	3.1	8.0	11.3	19.7	24.2	24.2	6.3	7.9	10.3
38	0.1	0.2	0.6	3.1	8.3	11.5	20.5	25.1	25.1	6.3	7.9	10.3
39	0.1	0.2	0.6	3.2	8.6	11.7	21.3	26.0	26.0	6.3	7.9	10.3
40	0.1	0.2	0.6	3.3	8.9	11.8	22.2	26.9	26.9	6.3	7.9	10.3
41	0.1	0.2	0.6	3.4	9.2	12.0	23.0	27.8	27.8	6.3	7.9	10.3
42	0.1	0.2	0.6	3.5	9.5	12.2	23.8	28.7	28.7	6.3	7.9	10.3
43	0.1	0.2	0.6	3.6	9.8	12.4	24.6	29.6	29.6	6.3	7.9	10.3
44	0.1	0.2	0.5	3.6	10.1	12.6	25.4	30.5	30.5	6.3	7.9	10.3
45	0.1	0.2	0.5	3.7	10.4	12.8	26.2	31.4	31.4	6.3	7.9	10.3
46	0.1	0.2	0.5	3.8	10.7	13.0	27.0	32.3	32.3	6.3	7.9	10.3
47	0.1	0.2	0.5	3.9	11.0	13.2	27.7	33.2	33.2	6.3	7.9	10.3
48	0.1	0.2	0.5	4.0	11.3	13.4	28.4	34.1	34.1	6.3	7.9	10.3
49	0.1	0.2	0.5	4.1	11.6	13.6	29.1	35.0	35.0	6.3	7.9	10.3
50	0.1	0.2	0.4	4.2	11.9	13.8	29.8	35.9	35.9	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				
	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.2	0.4	0.7	0.9	1.2	1.8	2.9	4.0	5.1	6.3
2	0.2	0.5	0.8	1.0	1.3	1.9	3.0	4.2	5.2	6.3
3	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.4	5.3	6.4
4	0.2	0.5	0.9	1.1	1.5	2.1	3.4	4.6	5.4	6.5
5	0.2	0.5	0.9	1.2	1.6	2.3	3.5	4.9	5.6	6.7
6	0.2	0.5	0.9	1.3	1.7	2.4	3.7	5.1	5.7	6.8
7	0.2	0.5	0.9	1.4	1.8	2.6	4.0	5.3	5.8	6.9
8	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.4	5.9	7.0
9	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.5	6.0	7.1
10	0.2	0.5	1.0	1.6	2.2	3.1	4.7	6.2	6.7	7.8
11	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.5	7.0	8.1
12	0.2	0.5	1.1	1.8	2.6	3.5	5.2	6.8	7.3	8.4
13	0.2	0.5	1.1	1.9	2.7	3.6	5.5	7.2	7.7	8.8
14	0.2	0.5	1.1	2.0	2.9	4.0	5.8	7.6	8.1	9.2
15	0.2	0.4	1.1	2.1	3.1	4.3	6.2	8.0	8.5	9.6
16	0.2	0.4	1.1	2.1	3.3	4.5	6.5	8.4	8.9	10.0
17	0.2	0.4	1.1	2.2	3.5	4.8	6.9	8.8	9.3	10.4
18	0.1	0.4	1.1	2.3	3.7	5.1	7.3	9.2	9.7	10.8
19	0.1	0.4	1.1	2.3	3.9	5.4	7.7	9.6	10.1	11.2
20	0.1	0.4	1.0	2.3	4.1	5.8	8.2	10.3	10.8	11.9
21	0.1	0.4	1.0	2.4	4.3	6.2	8.7	10.9	11.4	12.5
22	0.1	0.4	1.0	2.4	4.4	6.6	9.2	11.5	12.0	13.1
23	0.1	0.3	1.0	2.4	4.6	7.0	9.7	12.1	12.6	13.7
24	0.1	0.3	0.9	2.4	4.7	7.4	10.3	12.8	13.3	14.4
25	0.1	0.3	0.9	2.4	4.8	7.8	10.9	13.5	14.0	15.1
26	0.1	0.3	0.9	2.4	4.9	8.2	11.5	14.2	14.7	15.8
27	0.1	0.3	0.9	2.3	5.0	8.6	12.2	15.0	15.5	16.6
28	0.1	0.3	0.8	2.2	5.1	9.0	12.9	15.8	16.3	17.4
29	0.1	0.3	0.8	2.2	5.2	9.4	13.7	16.7	17.2	18.3
30	0.1	0.3	0.8	2.1	5.3	9.7	14.5	17.6	18.1	19.2
31	0.1	0.3	0.8	2.1	5.3	10.0	15.4	18.6	19.1	20.2
32	0.1	0.3	0.7	2.0	5.3	10.3	16.2	19.7	20.2	21.3
33	0.1	0.2	0.7	2.0	5.3	10.6	17.0	20.8	21.3	22.4
34	0.1	0.2	0.7	2.0	5.3	10.8	17.9	22.0	22.5	23.6
35	0.1	0.2	0.7	1.9	5.2	11.0	18.7	23.2	23.7	24.8
36	0.1	0.2	0.7	1.9	5.0	11.2	19.6	24.5	25.0	26.1
37	0.1	0.2	0.6	1.8	4.9	11.4	20.4	25.7	26.2	27.3
38	0.1	0.2	0.6	1.8	4.8	11.6	21.1	26.9	27.4	28.5
39	0.1	0.2	0.6	1.7	4.7	11.7	21.8	28.2	28.7	29.8
40	0.1	0.2	0.6	1.7	4.6	11.8	22.5	29.6	30.1	31.2
41	0.1	0.2	0.6	1.6	4.5	11.8	23.1	30.9	31.4	32.5
42	0.1	0.2	0.5	1.6	4.4	11.8	23.6	32.1	32.6	33.7
43	0.1	0.2	0.5	1.5	4.3	11.7	24.1	33.2	33.7	34.8
44	0.1	0.2	0.5	1.5	4.2	11.4	24.6	34.3	34.8	35.9
45	0.1	0.2	0.5	1.4	4.1	11.1	25.0	35.3	35.8	36.9
46	0.1	0.2	0.5	1.4	4.0	10.9	25.4	36.2	36.7	37.8
47	0.1	0.2	0.5	1.4	3.9	10.7	25.8	37.0	37.5	38.6
48	0.1	0.2	0.4	1.3	3.8	10.5	26.1	37.8	38.3	39.4
49	0.1	0.2	0.4	1.3	3.7	10.3	26.4	38.5	39.0	40.3
50	0.1	0.2	0.4	1.3	3.6	10.1	26.5	39.2	39.7	40.6

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				
	63	125	250	500	1000	2000	4000	8000	16000	31500	63	125	250	500	1000
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
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
3	0.2	0.5	0.8	1.1	1.5	2.1	3.3	4.6	5.3	5.4	0.1	0.2	0.4	1.1	3.2
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
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
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
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	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	0.9	2.7
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	2.6
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	2.5
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	2.4
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	2.3
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	2.2
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	2.1
15	0.2	0.4	1.1	2.1	3.1	4.2	6.1	8.3	8.6	8.7	0.1	0.2	0.4	0.9	2.0
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	1.9
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	1.8
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	1.7
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	1.6
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	1.5
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	1.4
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	1.3
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	1.2
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	1.1
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	1.0
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	0.9
27	0.1	0.3	0.8	2.3	5.1	8.9	12.9	15.7	16.0	16.1	0.1	0.2	0.4	0.8	0.9
28	0.1	0.3	0.8	2.2	5.1	9.3	13.6	16.6	16.9	17.0	0.1	0.2	0.4	0.8	0.9
29	0.1	0.3	0.8	2.1	5.2	9.6	14.4	17.5	17.8	17.9	0.1	0.2	0.4	0.8	0.9
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	1.0
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	1.0
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	1.0
33	0.1	0.2	0.7	1.9	5.2	10.7	17.7	21.8	22.1	22.2	0.1	0.2	0.5	0.9	1.0
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	1.0
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	1.0
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	1.0
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	1.0
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	1.0
39	0.1	0.2	0.6	1.6	4.5	11.7	22.3	29.4	29.7	29.8	0.1	0.2	0.5	1.0	1.0
40	0.1	0.2	0.5	1.6	4.4	11.7	22.9	30.7	31.0	31.1	0.1	0.2	0.5	1.0	1.0
41	0.1	0.2	0.5	1.5	4.3	11.5	23.9	33.0	33.3	33.4	0.1	0.2	0.5	1.0	1.0
42	0.1	0.2	0.5	1.5	4.2	11.2	24.4	34.0	34.3	34.4	0.1	0.2	0.5	1.0	1.0
43	0.1	0.2	0.5	1.4	4.1	10.9	24.7	35.0	35.3	35.4	0.1	0.2	0.5	1.0	1.0
44	0.1	0.2	0.5	1.4	4.0	10.7	25.2	36.4	36.7	36.8	0.1	0.2	0.5	1.0	1.0
45	0.1	0.2	0.5	1.3	3.9	10.5	25.5	37.7	38.0	38.1	0.1	0.2	0.5	1.0	1.0
46	0.1	0.2	0.4	1.3	3.8	10.3	25.8	39.1	39.4	39.5	0.1	0.2	0.5	1.0	1.0
47	0.1	0.2	0.4	1.3	3.7	10.1	26.1	40.2	40.5	40.6	0.1	0.2	0.5	1.0	1.0
48	0.1	0.2	0.4	1.2	3.6	9.9	26.2	41.8	42.1	42.2	0.1	0.2	0.5	1.0	1.0
49	0.1	0.2	0.4	1.2	3.5	9.8	26.1	43.4	43.7	43.8	0.1	0.2	0.5	1.0	1.0
50	0.1	0.2	0.4	1.2	3.5	9.8	26.1	45.0	45.3	45.4	0.1	0.2	0.5	1.0	1.0

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, HZ					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ				
	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	0.8	1.0	1.4	2.0	3.2	4.4			51	0.1	0.2	0.4	1.0	3.1	9.9	24.1	40.0	
2	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.6			52	0.1	0.2	0.4	1.0	3.0	8.7	23.6	40.2	
3	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9			53	0.1	0.2	0.4	1.0	2.9	8.5	23.2	40.2	
4	0.2	0.5	0.9	1.3	1.7	2.4	3.8	5.1			54	0.1	0.2	0.4	1.0	2.9	8.3	22.8	39.9	
5	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4			55	0.1	0.2	0.4	0.9	2.9	8.1	22.4	39.3	
6	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.6			56	0.1	0.2	0.4	0.9	2.7	7.9	22.0	38.4	
7	0.2	0.5	1.0	1.6	2.1	3.0	4.4	5.9			57	0.1	0.2	0.4	0.9	2.6	7.7	21.7	37.7	
8	0.2	0.5	1.0	1.7	2.3	3.2	4.7	6.2			58	0.1	0.2	0.4	0.9	2.6	7.5	21.3	37.0	
9	0.2	0.5	1.0	1.8	2.4	3.4	5.0	6.6			59	0.1	0.2	0.4	0.9	2.5	7.4	21.0	36.4	
10	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9			60	0.1	0.2	0.4	0.9	2.4	7.2	20.5	35.9	
11	0.2	0.4	1.1	2.0	2.8	3.8	5.6	7.3			61	0.1	0.2	0.4	0.9	2.4	7.0	20.1	35.2	
12	0.2	0.4	1.1	2.0	3.0	4.1	5.9	7.6			62	0.1	0.2	0.4	0.8	2.3	6.8	19.7	34.7	
13	0.2	0.4	1.1	2.1	3.2	4.3	6.3	8.1			63	0.1	0.2	0.4	0.8	2.2	6.6	19.3	34.1	
14	0.1	0.4	1.1	2.1	3.4	4.6	6.6	8.5			64	0.1	0.2	0.4	0.8	2.2	6.5	19.9	33.7	
15	0.1	0.4	1.1	2.2	3.5	4.9	7.0	9.0			65	0.1	0.2	0.4	0.8	2.1	6.3	18.5	33.1	
16	0.1	0.4	1.0	2.2	3.8	5.2	7.4	9.4			66	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.5	
17	0.1	0.4	1.0	2.3	3.9	5.6	7.9	10.0			67	0.1	0.2	0.4	0.8	2.1	6.1	17.7	31.9	
18	0.1	0.4	1.0	2.3	4.1	5.9	8.3	10.5			68	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.3	
19	0.1	0.3	0.9	2.3	4.3	6.3	8.8	11.1			69	0.1	0.2	0.4	0.8	2.0	5.7	17.0	30.6	
20	0.1	0.3	0.9	2.4	4.4	6.7	9.4	11.7			70	0.1	0.2	0.4	0.8	2.0	5.6	16.7	30.0	
21	0.1	0.3	0.9	2.4	4.6	7.1	9.9	12.4			71	0.1	0.2	0.4	0.8	1.9	5.4	16.3	29.4	
22	0.1	0.3	0.9	2.3	4.7	7.5	10.5	13.0			72	0.1	0.2	0.4	0.8	1.9	5.3	15.9	28.8	
23	0.1	0.3	0.9	2.3	4.9	8.3	11.2	14.6			73	0.1	0.2	0.4	0.8	1.9	5.2	15.5	28.2	
24	0.1	0.3	0.8	2.2	4.9	8.3	11.8	14.6			74	0.1	0.2	0.4	0.8	1.9	5.1	15.1	27.7	
25	0.1	0.3	0.8	2.2	5.0	8.7	12.5	15.4			75	0.1	0.2	0.4	0.9	1.9	5.0	14.8	27.1	
26	0.1	0.3	0.8	2.1	5.0	9.1	13.3	16.2			76	0.1	0.2	0.4	0.9	1.9	4.9	14.6	26.6	
27	0.1	0.3	0.8	2.1	5.1	9.4	14.1	17.2			77	0.1	0.2	0.4	0.9	1.9	4.8	14.3	26.1	
28	0.1	0.3	0.7	2.0	5.2	9.7	15.0	18.1			78	0.1	0.2	0.4	0.9	1.9	4.7	13.9	25.5	
29	0.1	0.2	0.7	2.0	5.2	10.0	15.7	19.2			79	0.1	0.2	0.4	0.9	1.9	4.6	13.6	24.9	
30	0.1	0.2	0.7	1.9	5.1	10.3	16.4	20.3			80	0.1	0.2	0.5	0.9	1.9	4.6	13.3	24.4	
31	0.1	0.2	0.7	1.9	5.1	10.5	17.4	21.4			81	0.1	0.2	0.5	0.9	1.9	4.5	13.0	23.9	
32	0.1	0.2	0.6	1.8	5.0	10.7	18.3	22.7			82	0.1	0.2	0.5	0.9	1.9	4.4	12.6	23.4	
33	0.1	0.2	0.6	1.8	4.8	10.9	19.1	23.9			83	0.1	0.2	0.5	0.9	1.9	4.4	12.4	23.0	
34	0.1	0.2	0.6	1.7	4.7	11.0	19.9	25.1			84	0.1	0.2	0.5	0.9	1.9	4.4	12.1	22.5	
35	0.1	0.2	0.6	1.7	4.6	11.2	20.6	26.4			85	0.1	0.2	0.5	1.0	1.9	4.4	11.9	22.0	
36	0.1	0.2	0.6	1.6	4.5	11.3	21.3	27.7			86	0.1	0.2	0.5	1.0	1.9	4.3	11.6	21.5	
37	0.1	0.2	0.6	1.6	4.4	11.4	21.5	29.0			87	0.1	0.2	0.5	1.0	2.0	4.3	11.4	21.0	
38	0.1	0.2	0.5	1.5	4.3	11.4	22.5	30.2			88	0.1	0.2	0.5	1.0	2.0	4.3	11.2	20.5	
39	0.1	0.2	0.5	1.5	4.2	11.4	23.0	31.4			89	0.1	0.2	0.5	1.0	2.0	4.3	11.0	20.1	
40	0.1	0.2	0.5	1.5	4.1	11.2	23.4	32.5			90	0.1	0.2	0.5	1.0	2.0	4.3	10.9	19.7	
41	0.1	0.2	0.5	1.4	4.0	10.9	23.9	33.5			91	0.1	0.3	0.5	1.0	2.1	4.3	10.7	19.3	
42	0.1	0.2	0.5	1.4	3.9	10.6	24.3	34.4			92	0.1	0.3	0.5	1.0	2.1	4.3	10.6	19.0	
43	0.1	0.2	0.5	1.3	3.8	10.4	24.7	35.3			93	0.1	0.3	0.5	1.0	2.1	4.3	10.5	18.6	
44	0.1	0.2	0.4	1.3	3.7	10.2	25.0	36.1			94	0.1	0.3	0.5	1.1	2.1	4.3	10.3	18.3	
45	0.1	0.2	0.4	1.3	3.6	10.0	25.3	36.8			95	0.1	0.3	0.5	1.1	2.1	4.3	10.2	18.0	
46	0.1	0.2	0.4	1.2	3.5	9.8	25.5	37.5			96	0.1	0.3	0.5	1.1	2.2	4.4	10.2	17.7	
47	0.1	0.2	0.4	1.2	3.4	9.7	25.4	38.1			97	0.1	0.3	0.5	1.1	2.2	4.5	10.2	17.5	
48	0.1	0.2	0.4	1.2	3.4	9.5	25.4	38.7			98	0.1	0.3	0.5	1.1	2.2	4.5	10.2	17.3	
49	0.1	0.2	0.4	1.1	3.3	9.3	25.2	39.2			99	0.1	0.3	0.6	1.1	2.2	4.4	10.1	17.1	
50	0.1	0.2	0.4	1.1	3.2	9.1	24.7	39.6			100	0.1	0.3	0.6	1.1	2.3	4.4	10.1	16.9	

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	5.6	16.7	30.1			
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	5.5	16.4	29.5			
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	5.3	16.0	28.9			
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	5.2	15.6	28.3			
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	5.1	15.2	27.7			
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	5.0	14.9	27.2			
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	4.9	14.6	26.7			
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	4.8	14.3	26.2			
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	4.7	14.0	25.6			
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	4.6	13.7	25.0			
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	4.6	13.3	24.4			
29	0.1	0.2	0.7	1.9	5.1	10.1	16.4	20.0	79	0.1	0.2	0.4	0.9	1.8	4.5	13.0	23.9			
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	12.7	23.4			
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	4.4	12.4	23.0			
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	1.8	4.3	12.1	22.6			
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	1.8	4.3	11.9	22.1			
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	11.6	21.6			
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	1.9	4.3	11.4	21.1			
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	4.3	11.2	20.6			
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	11.0	20.1			
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	10.8	19.7			
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	10.7	19.3			
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	2.0	4.2	10.6	19.0			
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	10.4	18.6			
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	4.2	10.3	18.3			
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	4.2	10.2	18.0			
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	2.1	4.2	10.1	17.7			
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	2.1	4.2	10.1	17.4			
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	4.2	10.1	17.2			
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	4.2	10.0	17.0			
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	4.2	10.0	16.8			
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	4.2	9.9	16.6			
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	4.2	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	1.0	1.8	4.3	12.2
31	0.1	0.2	0.6	1.8	4.7	10.6	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	0.9	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, M7				
		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
2	E 10	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2	52	0.1
3	A 11	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5	53	0.1
4	M 12	0.2	0.5	1.0	1.5	2.0	2.9	4.3	5.8	54	0.1
5	P 13	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1	55	0.1
6	E 14	0.2	0.5	1.0	1.7	2.4	3.3	4.8	6.4	56	0.1
7	A 15	0.2	0.5	1.0	1.8	2.5	3.5	5.1	6.7	57	0.1
8	M 16	0.2	0.5	1.0	1.9	2.7	3.7	5.4	7.1	58	0.1
9	P 17	0.2	0.5	1.0	2.0	2.9	3.9	5.5	7.5	59	0.1
10	E 18	0.1	0.4	1.0	2.1	3.1	4.2	6.1	7.9	60	0.1
11	A 19	0.1	0.4	1.0	2.1	3.3	4.5	6.5	8.3	61	0.1
12	M 20	0.1	0.4	1.0	2.2	3.5	4.8	6.9	9.1	62	0.1
13	P 21	0.1	0.4	1.0	2.2	3.7	5.1	7.3	9.2	63	0.1
14	E 22	0.1	0.4	1.0	2.2	3.8	5.4	7.7	9.8	64	0.1
15	A 23	0.1	0.3	0.9	2.2	4.0	5.8	8.2	10.1	65	0.1
16	M 24	0.1	0.3	0.9	2.3	4.2	6.2	8.7	10.9	66	0.1
17	P 25	0.1	0.3	0.9	2.3	4.3	6.6	9.2	11.5	67	0.1
18	E 26	0.1	0.3	0.9	2.3	4.4	7.0	9.8	12.2	68	0.1
19	A 27	0.1	0.3	0.8	2.3	4.6	7.4	10.4	13.0	69	0.1
20	M 28	0.1	0.3	0.8	2.2	4.6	7.8	11.0	13.6	70	0.1
21	P 29	0.1	0.3	0.8	2.1	4.7	8.2	11.7	14.4	71	0.1
22	E 30	0.1	0.3	0.8	2.1	4.8	8.6	12.4	15.2	72	0.1
23	A 31	0.1	0.3	0.7	2.0	4.9	8.9	13.2	16.1	73	0.1
24	M 32	0.1	0.2	0.7	2.0	4.9	9.2	14.0	17.0	74	0.1
25	P 33	0.1	0.2	0.7	1.9	5.0	9.5	14.8	17.9	75	0.1
26	E 34	0.1	0.2	0.7	1.9	5.0	9.8	15.6	18.8	76	0.1
27	A 35	0.1	0.2	0.7	1.8	4.9	10.0	16.4	19.7	77	0.1
28	M 36	0.1	0.2	0.6	1.8	4.8	10.2	17.3	20.6	78	0.1
29	P 37	0.1	0.2	0.6	1.7	4.7	10.4	18.1	21.4	79	0.1
30	E 38	0.1	0.2	0.6	1.7	4.6	10.6	18.9	22.3	80	0.1
31	A 39	0.1	0.2	0.6	1.6	4.4	10.7	19.6	23.2	81	0.1
32	M 40	0.1	0.2	0.5	1.6	4.3	10.9	20.3	24.1	82	0.1
33	P 41	0.1	0.2	0.5	1.5	4.3	11.0	20.9	25.0	83	0.1
34	E 42	0.1	0.2	0.5	1.5	4.2	11.0	21.5	25.8	84	0.1
35	A 43	0.1	0.2	0.5	1.5	4.1	10.9	22.0	26.7	85	0.1
36	M 44	0.1	0.2	0.5	1.4	4.0	10.8	22.4	27.5	86	0.1
37	P 45	0.1	0.2	0.5	1.4	3.9	10.5	22.9	28.3	87	0.1
38	E 46	0.1	0.2	0.4	1.3	3.8	10.2	23.3	29.1	88	0.1
39	A 47	0.1	0.2	0.4	1.3	3.7	10.0	23.6	30.0	89	0.1
40	M 48	0.1	0.2	0.4	1.2	3.6	9.8	24.0	30.8	90	0.1
41	P 49	0.1	0.2	0.4	1.2	3.5	9.6	24.2	31.6	91	0.1
42	E 50	0.1	0.2	0.4	1.2	3.4	9.4	24.4	32.4	92	0.1
43	A 51	0.1	0.2	0.4	1.1	3.3	9.3	24.5	33.2	93	0.1
44	M 52	0.1	0.2	0.4	1.1	3.2	9.1	24.4	34.0	94	0.1
45	P 53	0.1	0.2	0.4	1.1	3.1	8.9	24.1	34.8	95	0.1
46	E 54	0.1	0.2	0.4	1.0	3.0	8.7	23.6	35.6	96	0.1
47	A 55	0.1	0.2	0.4	1.0	3.0	8.5	23.0	36.4	97	0.1
48	M 56	0.1	0.2	0.4	1.0	2.9	8.3	22.5	37.2	98	0.1
49	P 57	0.1	0.2	0.4	0.9	2.8	8.1	22.1	38.0	99	0.1
50	E 58	0.1	0.2	0.4	0.9	2.7	7.9	21.7	38.8	100	0.1

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	8000	9000
1	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2	51	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
2	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5	52	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
3	0.2	0.5	1.0	1.5	2.1	2.9	4.3	5.8	53	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
4	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1	54	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
5	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.4	55	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
6	0.2	0.4	1.0	1.8	2.5	3.5	5.2	6.8	56	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
7	0.2	0.4	1.0	1.9	2.7	3.7	5.5	7.1	57	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0
8	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5	58	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
9	0.1	0.4	1.0	2.0	3.1	4.3	6.2	7.9	59	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
10	0.1	0.4	1.0	2.1	3.3	4.5	6.5	8.4	60	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
11	0.1	0.4	1.0	2.1	3.5	4.8	6.9	8.8	61	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
12	0.1	0.4	1.0	2.1	3.7	5.2	7.3	9.3	62	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
13	0.1	0.3	0.9	2.2	3.9	5.5	7.8	9.9	63	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
14	0.1	0.3	0.9	2.2	4.0	5.9	8.3	10.4	64	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
15	0.1	0.3	0.9	2.2	4.2	6.3	8.8	11.0	65	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
16	0.1	0.3	0.9	2.2	4.3	6.7	9.3	11.6	66	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17	0.1	0.3	0.8	2.2	4.4	7.0	9.9	12.3	67	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
18	0.1	0.3	0.8	2.2	4.5	7.4	10.5	13.0	68	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
19	0.1	0.3	0.8	2.1	4.6	7.9	11.2	13.8	69	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
20	0.1	0.3	0.8	2.1	4.7	8.2	11.9	14.6	70	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
21	0.1	0.3	0.7	2.0	4.8	8.6	12.6	15.4	71	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
22	0.1	0.2	0.7	2.0	4.9	8.9	13.4	16.3	72	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
23	0.1	0.2	0.7	1.9	4.9	9.2	14.2	17.3	73	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
24	0.1	0.2	0.7	1.9	4.9	9.5	15.0	18.3	74	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
25	0.1	0.2	0.6	1.8	4.9	9.7	15.8	19.4	75	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
26	0.1	0.2	0.6	1.8	4.8	9.9	16.6	20.5	76	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
27	0.1	0.2	0.6	1.7	4.7	10.2	17.5	21.7	77	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
28	0.1	0.2	0.6	1.7	4.5	10.3	18.1	22.9	78	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
29	0.1	0.2	0.6	1.6	4.4	10.5	19.0	24.1	79	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
30	0.1	0.2	0.5	1.6	4.3	10.6	19.7	25.3	80	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
31	0.1	0.2	0.5	1.5	4.2	10.7	20.3	26.5	81	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
32	0.1	0.2	0.5	1.5	4.1	10.8	20.9	27.9	82	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
33	0.1	0.2	0.5	1.4	4.0	10.8	21.5	29.0	83	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
34	0.1	0.2	0.5	1.4	3.9	10.6	21.9	30.1	84	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
35	0.1	0.2	0.5	1.4	3.8	10.4	22.3	31.2	85	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
36	0.1	0.2	0.4	1.3	3.7	10.1	22.8	32.1	86	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
37	0.1	0.2	0.4	1.3	3.6	9.9	23.1	33.0	87	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
38	0.1	0.2	0.4	1.2	3.6	9.7	23.4	33.8	88	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
39	0.1	0.2	0.4	1.2	3.5	9.5	23.7	34.4	89	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
40	0.1	0.2	0.4	1.2	3.4	9.3	24.0	35.1	90	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
41	0.1	0.2	0.4	1.1	3.3	9.1	24.0	35.7	91	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
42	0.1	0.2	0.4	1.1	3.2	8.9	24.0	36.3	92	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
43	0.1	0.2	0.4	1.1	3.1	8.8	23.7	36.8	93	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
44	0.1	0.2	0.4	1.0	3.0	8.6	23.3	37.2	94	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
45	0.1	0.2	0.4	1.0	2.9	8.4	22.9	37.6	95	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
46	0.1	0.2	0.4	1.0	2.8	8.2	22.2	37.8	96	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
47	0.1	0.2	0.3	0.9	2.7	8.0	21.8	37.7	97	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
48	0.1	0.2	0.3	0.9	2.7	7.8	21.3	37.4	98	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
49	0.1	0.2	0.3	0.9	2.6	7.6	21.0	36.8	99	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
50	0.1	0.2	0.3	0.9	2.5	7.4	20.6	35.9	100	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4

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	3.9	10.4	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	10.2	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	10.0	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	0.1	0.2	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	0.1	0.2	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	0.1	0.2	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	0.1	0.2	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	0.1	0.2	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
1	0.2	0.5	0.9	1.5	2.1	3.0	4.4	5.9	7.1	8.1
2	0.2	0.4	1.0	1.6	2.3	3.2	4.7	6.2	7.2	8.1
3	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.6	7.6	8.5
4	0.2	0.4	1.0	1.8	2.6	3.6	5.3	6.9	7.9	8.8
5	0.1	0.4	1.0	1.9	2.8	3.9	5.6	7.3	8.3	9.2
6	0.1	0.4	1.0	1.9	3.0	4.1	6.0	7.7	8.7	9.6
7	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.2	9.2	10.1
8	0.1	0.4	1.0	2.0	3.4	4.7	6.7	8.6	9.6	10.5
9	0.1	0.3	0.9	2.1	3.6	5.0	7.2	9.1	10.1	11.0
10	0.1	0.3	0.9	2.1	3.8	5.4	7.6	9.6	10.6	11.5
11	0.1	0.3	0.9	2.1	3.9	5.7	8.1	10.2	11.2	12.1
12	0.1	0.3	0.9	2.2	4.1	6.1	8.6	10.8	11.8	12.7
13	0.1	0.3	0.8	2.2	4.2	6.5	9.1	11.4	12.4	13.3
14	0.1	0.3	0.8	2.2	4.3	6.9	9.7	12.1	13.1	14.0
15	0.1	0.3	0.8	2.1	4.4	7.3	10.3	12.8	13.8	14.7
16	0.1	0.3	0.8	2.0	4.5	7.7	11.0	13.5	14.5	15.4
17	0.1	0.3	0.7	2.0	4.6	8.1	11.7	14.4	15.4	16.3
18	0.1	0.2	0.7	1.9	4.6	8.4	12.4	15.2	16.2	17.1
19	0.1	0.2	0.7	1.9	4.7	8.7	13.2	16.1	17.1	18.0
20	0.1	0.2	0.7	1.8	4.7	9.0	14.0	17.1	18.1	19.0
21	0.1	0.2	0.6	1.8	4.7	9.3	14.8	18.1	19.1	20.0
22	0.1	0.2	0.6	1.7	4.7	9.5	15.6	19.2	20.2	21.1
23	0.1	0.2	0.6	1.7	4.6	9.7	16.4	20.4	21.4	22.3
24	0.1	0.2	0.6	1.6	4.4	9.9	17.3	21.6	22.6	23.5
25	0.1	0.2	0.6	1.6	4.3	10.0	18.0	22.7	23.7	24.6
26	0.1	0.2	0.5	1.5	4.2	10.2	18.7	23.9	24.9	25.8
27	0.1	0.2	0.5	1.5	4.1	10.3	19.3	25.1	26.1	27.0
28	0.1	0.2	0.5	1.4	4.0	10.4	19.9	26.4	27.4	28.3
29	0.1	0.2	0.5	1.4	3.9	10.4	20.5	27.6	28.6	29.5
30	0.1	0.2	0.5	1.4	3.8	10.3	20.9	28.7	29.7	30.6
31	0.1	0.2	0.4	1.3	3.7	10.1	21.4	29.7	30.7	31.6
32	0.1	0.2	0.4	1.3	3.6	9.8	21.8	30.6	31.6	32.5
33	0.1	0.2	0.4	1.2	3.5	9.6	22.1	31.5	32.5	33.4
34	0.1	0.2	0.4	1.2	3.4	9.3	22.5	32.3	33.3	34.2
35	0.1	0.2	0.4	1.2	3.3	9.1	22.7	33.0	34.0	34.9
36	0.1	0.1	0.4	1.1	3.2	8.9	23.0	33.6	34.6	35.5
37	0.1	0.1	0.4	1.1	3.1	8.8	23.1	34.3	35.3	36.0
38	0.1	0.1	0.4	1.0	3.1	8.6	23.0	34.8	35.8	36.7
39	0.1	0.1	0.4	1.0	3.0	8.4	22.8	35.3	36.3	37.2
40	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.7	36.7	37.7
41	0.1	0.1	0.3	0.9	2.8	8.0	21.7	36.1	37.1	38.1
42	0.1	0.1	0.3	0.9	2.7	7.8	21.3	36.2	37.2	38.2
43	0.1	0.2	0.3	0.9	2.6	7.6	20.8	36.2	37.2	38.2
44	0.1	0.2	0.3	0.9	2.6	7.4	20.4	35.8	36.8	37.8
45	0.1	0.2	0.3	0.8	2.5	7.2	20.0	35.2	36.2	37.2
46	0.1	0.2	0.3	0.8	2.4	7.0	19.7	34.3	35.3	36.3
47	0.1	0.2	0.3	0.8	2.3	6.9	19.4	33.6	34.6	35.6
48	0.1	0.2	0.3	0.8	2.3	6.7	19.0	33.0	34.0	35.0
49	0.1	0.2	0.3	0.8	2.2	6.5	18.6	32.4	33.4	34.4
50	0.1	0.2	0.3	0.8	2.1	6.3	18.2	31.8	32.8	33.8

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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	4.1	12.1	22.2
17	0.1	0.3	0.7	1.9	4.6	8.2	12.0	14.8	67	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.7
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	11.5	21.2
19	0.1	0.2	0.7	1.8	4.7	8.8	13.6	16.6	69	0.1	0.2	0.4	0.8	1.6	3.9	11.2	20.8
20	0.1	0.2	0.7	1.8	4.7	9.1	14.4	17.4	70	0.1	0.2	0.4	0.8	1.6	3.9	11.0	20.4
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	10.7	19.9
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	10.5	19.5
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
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
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
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
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
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
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
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
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
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	15.5
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
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	15.3
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	14.9
36	0.1	0.1	0.4	1.1	3.1	8.8	22.9	33.8	86	0.1	0.2	0.5	1.0	2.0	4.0	8.8	14.8
37	0.1	0.1	0.4	1.0	3.1	8.6	22.9	34.4	87	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
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
40	0.1	0.1	0.3	0.9	2.8	8.0	21.7	35.7	90	0.1	0.3	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	0.3	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	0.3	0.5	1.0	2.1	4.3	8.8	14.4
43	0.1	0.2	0.3	0.9	2.6	7.4	20.4	35.7	93	0.1	0.3	0.5	1.0	2.1	4.3	8.9	14.3
44	0.1	0.2	0.3	0.8	2.5	7.2	20.0	35.1	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.3
45	0.1	0.2	0.3	0.8	2.4	7.0	19.6	34.3	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.3
46	0.1	0.2	0.3	0.8	2.3	6.8	19.3	33.5	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.3
47	0.1	0.2	0.3	0.8	2.3	6.7	19.0	32.9	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.3
48	0.1	0.2	0.3	0.8	2.2	6.5	18.6	32.3	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3
49	0.1	0.2	0.3	0.8	2.1	6.3	18.2	31.7	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.4
50	0.1	0.2	0.3	0.7	2.1	6.1	17.8	31.1	100	0.1	0.3	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					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	0.9	1.6	2.3	3.1	4.7	6.2	T 60	51	0.1	0.2	0.3	0.7	2.0	5.8	16.9	30.1
2	0.2	0.4	1.0	1.7	2.4	3.4	5.0	6.5	E 61	52	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.5
3	0.1	0.4	1.0	1.8	2.6	3.6	5.3	6.9	M 62	53	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.9
4	0.1	0.4	1.0	1.9	2.8	3.8	5.6	7.3	P 63	54	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.3
5	0.1	0.4	1.0	1.9	3.0	4.1	5.9	7.7	E 64	55	0.1	0.2	0.3	0.7	1.8	5.2	15.4	27.7
6	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.1	A 66	56	0.1	0.2	0.3	0.7	1.8	5.1	15.0	27.1
7	0.1	0.4	1.0	2.0	3.4	4.7	6.7	8.6	T 67	57	0.1	0.2	0.4	0.7	1.7	4.9	14.7	26.5
8	0.1	0.3	0.9	2.1	3.6	5.0	7.1	9.1	U 68	58	0.1	0.2	0.4	0.7	1.7	4.8	14.3	25.9
9	0.1	0.3	0.9	2.1	3.7	5.4	7.6	9.6	R 69	59	0.1	0.2	0.4	0.7	1.7	4.7	14.0	25.4
10	0.1	0.3	0.9	2.1	3.9	5.7	8.1	10.1	E 70	60	0.1	0.2	0.4	0.7	1.7	4.6	13.6	24.8
11	0.1	0.3	0.8	2.1	4.0	6.1	8.6	10.7	D 73	61	0.1	0.2	0.4	0.7	1.7	4.4	13.3	24.3
12	0.1	0.3	0.8	2.1	4.2	6.5	9.1	11.4	E 74	62	0.1	0.2	0.4	0.7	1.6	4.3	13.0	23.8
13	0.1	0.3	0.8	2.1	4.3	6.9	9.7	12.0	R 76	63	0.1	0.2	0.4	0.8	1.6	4.2	12.7	23.3
14	0.1	0.3	0.8	2.1	4.4	7.3	10.3	13.5	E 77	64	0.1	0.2	0.4	0.8	1.6	4.2	12.4	22.7
15	0.1	0.3	0.7	2.0	4.4	7.7	11.0	14.3	E 78	65	0.1	0.2	0.4	0.8	1.6	4.1	12.1	22.2
16	0.1	0.3	0.7	1.9	4.5	8.0	11.7	15.3	A 66	66	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.6
17	0.1	0.2	0.7	1.9	4.6	8.4	12.4	16.1	T 67	67	0.1	0.2	0.4	0.8	1.6	4.0	11.5	21.1
18	0.1	0.2	0.7	1.8	4.6	8.4	13.2	16.1	U 68	68	0.1	0.2	0.4	0.8	1.5	3.9	11.2	20.7
19	0.1	0.2	0.6	1.8	4.7	8.9	14.0	17.1	R 69	69	0.1	0.2	0.4	0.8	1.5	3.8	10.9	20.3
20	0.1	0.2	0.6	1.8	4.6	9.2	14.8	18.1	E 70	70	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	4.6	9.4	15.6	19.7	71	71	0.1	0.2	0.4	0.8	1.7	3.8	10.4	19.4
22	0.1	0.2	0.6	1.7	4.5	9.6	16.4	20.4	72	72	0.1	0.2	0.4	0.8	1.7	3.8	10.2	18.9
23	0.1	0.2	0.6	1.6	4.3	9.8	17.2	21.6	D 73	73	0.1	0.2	0.4	0.8	1.7	3.8	10.0	18.5
24	0.1	0.2	0.5	1.6	4.2	9.9	17.9	22.7	E 74	74	0.1	0.2	0.4	0.9	1.7	3.7	9.8	18.0
25	0.1	0.2	0.5	1.5	4.1	10.1	18.6	23.9	G 75	75	0.1	0.2	0.4	0.9	1.7	3.7	9.6	17.6
26	0.1	0.2	0.5	1.5	4.0	10.2	19.2	25.2	R 76	76	0.1	0.2	0.4	0.9	1.8	3.7	9.5	17.2
27	0.1	0.2	0.5	1.4	3.9	10.2	19.8	26.4	E 77	77	0.1	0.2	0.4	0.9	1.8	3.7	9.4	16.9
28	0.1	0.2	0.5	1.4	3.8	10.2	20.3	27.5	E 78	78	0.1	0.2	0.4	0.9	1.8	3.7	9.2	16.5
29	0.1	0.2	0.5	1.3	3.7	10.1	20.8	28.6	S 79	79	0.1	0.2	0.4	0.9	1.8	3.7	9.1	16.2
30	0.1	0.2	0.4	1.3	3.6	9.9	21.2	29.6	80	80	0.1	0.2	0.5	0.9	1.9	3.8	8.9	15.7
31	0.1	0.2	0.4	1.2	3.5	9.6	21.6	30.5	F 81	81	0.1	0.2	0.5	0.9	1.9	3.8	8.9	15.4
32	0.1	0.1	0.4	1.2	3.4	9.3	21.9	31.4	A 82	82	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.2
33	0.1	0.1	0.4	1.2	3.3	9.1	22.2	32.1	M 83	83	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.0
34	0.1	0.1	0.4	1.1	3.2	8.9	22.5	32.7	R 84	84	0.1	0.2	0.5	1.0	2.0	4.0	8.8	14.8
35	0.1	0.1	0.4	1.1	3.2	8.7	22.7	33.4	F 85	85	0.1	0.2	0.5	1.0	2.0	4.0	8.7	14.6
36	0.1	0.1	0.4	1.1	3.1	8.6	22.7	34.0	N 86	86	0.1	0.2	0.5	1.0	2.0	4.0	8.7	14.5
37	0.1	0.1	0.4	1.0	3.0	8.4	22.6	34.5	H 87	87	0.1	0.2	0.5	1.0	2.0	4.1	8.7	14.4
38	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.0	E 88	88	0.1	0.2	0.5	1.0	2.0	4.1	8.7	14.4
39	0.1	0.1	0.3	0.9	2.8	8.0	21.8	35.4	I 89	89	0.1	0.2	0.5	1.0	2.0	4.2	8.7	14.4
40	0.1	0.1	0.3	0.9	2.7	7.8	21.2	35.6	T 90	90	0.1	0.3	0.5	1.0	2.1	4.2	8.8	14.3
41	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.7	91	91	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.2
42	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.5	92	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.2
43	0.1	0.1	0.3	0.8	2.5	7.2	19.9	35.1	93	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.2
44	0.1	0.1	0.3	0.8	2.4	7.0	19.6	34.3	94	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.2
45	0.1	0.1	0.3	0.8	2.3	6.8	19.3	33.5	95	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.2
46	0.1	0.1	0.3	0.8	2.3	6.7	18.9	32.8	96	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.2
47	0.1	0.1	0.3	0.8	2.2	6.5	18.5	32.2	97	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3
48	0.1	0.1	0.3	0.8	2.1	6.3	18.1	31.6	98	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3
49	0.1	0.2	0.3	0.7	2.1	6.1	17.7	31.0	99	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	2.0	6.0	17.3	30.5	100	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 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	16.4	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	3.3	4.6	6.7	8.5	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	0.9	1.7	3.6	9.4
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	9.2
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	1.8	3.6	9.1
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	9.0
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	8.9
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	8.8
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	4.3	9.0
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	0.1	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	0.1	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	0.1	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	0.1	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 43 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	2.6	3.6	5.3	6.9	51	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0
2	0.1	0.4	1.0	1.8	2.8	3.8	5.6	7.3	52	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.4
3	0.1	0.4	1.0	1.9	3.0	4.1	6.0	7.7	53	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.8
4	0.1	0.4	0.9	1.9	3.2	4.4	6.3	8.1	54	0.1	0.2	0.3	0.7	1.6	4.7	14.0	25.2
5	0.1	0.3	0.9	2.0	3.4	4.7	6.7	8.6	55	0.1	0.2	0.3	0.7	1.6	4.5	13.6	24.7
6	0.1	0.3	0.9	2.0	3.5	5.0	7.2	9.1	56	0.1	0.2	0.3	0.7	1.6	4.4	13.2	24.1
7	0.1	0.3	0.9	2.0	3.7	5.4	7.6	9.6	57	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.6
8	0.1	0.3	0.8	2.1	3.9	5.8	8.1	10.2	58	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.0
9	0.1	0.3	0.8	2.1	4.0	6.2	8.6	10.8	59	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
10	0.1	0.3	0.8	2.1	4.1	6.5	9.2	11.5	60	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.0
11	0.1	0.3	0.8	2.0	4.2	6.9	9.8	12.2	61	0.1	0.2	0.4	0.7	1.6	4.0	11.7	21.5
12	0.1	0.3	0.7	2.0	4.3	7.3	10.4	12.9	62	0.1	0.2	0.4	0.7	1.6	3.9	11.4	20.9
13	0.1	0.2	0.7	1.9	4.4	7.7	11.1	13.7	63	0.1	0.2	0.4	0.8	1.5	3.8	11.1	20.4
14	0.1	0.2	0.7	1.9	4.5	8.0	11.8	14.5	64	0.1	0.2	0.4	0.8	1.5	3.8	10.8	20.0
15	0.1	0.2	0.7	1.8	4.5	8.3	12.6	15.4	65	0.1	0.2	0.4	0.8	1.6	3.7	10.5	19.6
16	0.1	0.2	0.6	1.8	4.5	8.6	13.4	16.3	66	0.1	0.2	0.4	0.8	1.6	3.7	10.3	19.2
17	0.1	0.2	0.6	1.7	4.5	8.9	14.2	17.3	67	0.1	0.2	0.4	0.8	1.6	3.6	10.1	18.7
18	0.1	0.2	0.6	1.7	4.5	9.1	14.9	18.4	68	0.1	0.2	0.4	0.8	1.6	3.6	9.8	18.3
19	0.1	0.2	0.6	1.6	4.4	9.3	15.8	19.6	69	0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.8
20	0.1	0.2	0.5	1.6	4.2	9.5	16.6	20.8	70	0.1	0.2	0.4	0.8	1.7	3.6	9.4	17.4
21	0.1	0.2	0.5	1.5	4.1	9.6	17.3	21.9	71	0.1	0.2	0.4	0.8	1.7	3.6	9.3	16.9
22	0.1	0.2	0.5	1.5	4.0	9.8	18.0	23.0	72	0.1	0.2	0.4	0.8	1.7	3.6	9.1	16.6
23	0.1	0.2	0.5	1.4	3.9	9.9	18.6	24.3	73	0.1	0.2	0.4	0.8	1.7	3.6	9.0	16.2
24	0.1	0.2	0.5	1.4	3.8	9.9	19.2	25.5	74	0.1	0.2	0.4	0.9	1.7	3.6	8.9	15.9
25	0.1	0.2	0.5	1.3	3.7	9.9	19.7	26.6	75	0.1	0.2	0.4	0.9	1.7	3.6	8.7	15.6
26	0.1	0.2	0.4	1.3	3.6	9.8	20.1	27.7	76	0.1	0.2	0.4	0.9	1.8	3.6	8.6	15.3
27	0.1	0.1	0.4	1.2	3.5	9.6	20.5	28.7	77	0.1	0.2	0.4	0.9	1.8	3.6	8.5	15.0
28	0.1	0.1	0.4	1.2	3.4	9.3	20.9	29.6	78	0.1	0.2	0.4	0.9	1.8	3.7	8.5	14.8
29	0.1	0.1	0.4	1.2	3.3	9.1	21.3	30.4	79	0.1	0.2	0.4	0.9	1.8	3.7	8.5	14.6
30	0.1	0.1	0.4	1.1	3.2	8.8	21.6	31.1	80	0.1	0.2	0.5	0.9	1.8	3.8	8.5	14.4
31	0.1	0.1	0.4	1.1	3.1	8.6	21.8	31.8	81	0.1	0.2	0.5	0.9	1.9	3.8	8.4	14.2
32	0.1	0.1	0.4	1.1	3.0	8.5	22.0	32.4	82	0.1	0.2	0.5	0.9	1.9	3.8	8.4	14.1
33	0.1	0.1	0.3	1.0	3.0	8.3	22.0	32.9	83	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.9
34	0.1	0.1	0.3	1.0	2.9	8.1	21.9	33.4	84	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.8
35	0.1	0.1	0.3	0.9	2.8	7.9	21.5	33.9	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	13.8
36	0.1	0.1	0.3	0.9	2.7	7.7	21.0	34.3	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.8
37	0.1	0.1	0.3	0.9	2.6	7.5	20.4	34.5	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.7
38	0.1	0.1	0.3	0.9	2.5	7.3	20.0	35.5	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.6
39	0.1	0.1	0.3	0.8	2.5	7.1	19.6	36.3	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.6
40	0.1	0.1	0.3	0.8	2.4	6.9	19.2	37.7	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.6
41	0.1	0.1	0.3	0.8	2.3	6.7	18.8	38.9	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.6
42	0.1	0.1	0.3	0.8	2.2	6.6	18.5	39.9	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.6
43	0.1	0.2	0.3	0.8	2.2	6.4	18.1	41.5	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	2.1	6.2	17.7	42.9	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.7	2.0	6.0	17.4	44.3	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	5.9	17.0	45.8	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.7	1.9	5.7	16.5	47.3	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	5.5	16.2	48.8	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	1.8	5.4	15.8	50.2	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	1.8	5.3	15.4	51.6	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							
		63	125	250	500	1000	2000	4000			8000	63	125	250	500	1000	2000	4000
1	T	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.0	51	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.5
2	E	0.1	0.4	1.0	1.9	2.9	3.9	5.7	7.4	52	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.9
3	M	0.1	0.4	1.0	1.9	3.1	4.2	6.1	7.8	53	0.1	0.2	0.3	0.7	1.5	4.7	14.0	25.3
4	P	0.1	0.3	0.9	1.9	3.2	4.5	6.5	8.3	54	0.1	0.2	0.3	0.7	1.6	4.6	13.6	24.7
5	R	0.1	0.3	0.9	2.0	3.4	4.8	6.9	8.8	55	0.1	0.2	0.3	0.7	1.6	4.4	13.3	24.1
6	A	0.1	0.3	0.9	2.0	3.6	5.2	7.3	9.3	56	0.1	0.2	0.3	0.7	1.6	4.3	12.9	23.6
7	U	0.1	0.3	0.8	2.1	3.8	5.5	7.8	9.9	57	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
8	E	0.1	0.3	0.8	2.1	3.9	5.9	8.3	10.4	58	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
9	T	0.1	0.3	0.8	2.1	4.0	6.3	8.9	11.1	59	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.1
10	E	0.1	0.3	0.8	2.1	4.1	6.7	9.4	11.7	60	0.1	0.2	0.4	0.7	1.5	3.9	11.7	21.5
11	M	0.1	0.3	0.7	2.0	4.2	7.1	10.0	12.4	61	0.1	0.2	0.4	0.7	1.5	3.9	11.4	21.0
12	P	0.1	0.3	0.7	1.9	4.3	7.5	10.7	13.2	62	0.1	0.2	0.4	0.7	1.5	3.8	11.1	20.4
13	R	0.1	0.2	0.7	1.9	4.4	7.8	11.4	14.0	63	0.1	0.2	0.4	0.8	1.5	3.8	10.8	20.0
14	E	0.1	0.2	0.7	1.8	4.4	8.1	12.1	14.9	64	0.1	0.2	0.4	0.8	1.5	3.7	10.5	19.6
15	A	0.1	0.2	0.6	1.8	4.5	8.4	12.9	15.8	65	0.1	0.2	0.4	0.8	1.6	3.6	10.3	19.2
16	U	0.1	0.2	0.6	1.7	4.5	8.7	13.7	16.7	66	0.1	0.2	0.4	0.8	1.6	3.6	10.1	18.7
17	E	0.1	0.2	0.6	1.6	4.4	9.1	15.3	18.9	68	0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.8
18	T	0.1	0.2	0.6	1.6	4.3	9.3	16.1	20.1	69	0.1	0.2	0.4	0.8	1.6	3.6	9.4	17.4
19	E	0.1	0.2	0.5	1.5	4.1	9.5	16.9	21.2	70	0.1	0.2	0.4	0.8	1.7	3.5	9.3	16.9
20	M	0.1	0.2	0.5	1.5	4.0	9.6	17.6	22.4	71	0.1	0.2	0.4	0.8	1.7	3.5	9.1	16.5
21	P	0.1	0.2	0.5	1.4	3.9	9.8	18.2	23.6	72	0.1	0.2	0.4	0.8	1.7	3.5	9.0	16.2
22	R	0.1	0.2	0.5	1.4	3.8	9.9	18.8	24.8	73	0.1	0.2	0.4	0.8	1.7	3.5	8.8	15.9
23	A	0.1	0.2	0.5	1.3	3.7	9.9	19.4	26.0	74	0.1	0.2	0.4	0.9	1.7	3.5	8.7	15.6
24	U	0.1	0.2	0.5	1.3	3.7	9.9	19.4	26.0	75	0.1	0.2	0.4	0.9	1.7	3.6	8.6	15.3
25	E	0.1	0.2	0.4	1.3	3.7	9.8	19.8	27.1	76	0.1	0.2	0.4	0.9	1.8	3.6	8.5	15.0
26	T	0.1	0.2	0.4	1.3	3.6	9.6	20.2	28.1	77	0.1	0.2	0.4	0.9	1.8	3.6	8.4	14.8
27	E	0.1	0.1	0.4	1.2	3.5	9.4	20.6	29.0	78	0.1	0.2	0.4	0.9	1.8	3.7	8.4	14.5
28	M	0.1	0.1	0.4	1.2	3.4	9.1	21.0	29.9	79	0.1	0.2	0.4	0.9	1.8	3.7	8.4	14.2
29	P	0.1	0.1	0.4	1.1	3.3	8.9	21.3	30.6	80	0.1	0.2	0.5	0.9	1.8	3.8	8.4	14.0
30	R	0.1	0.1	0.4	1.1	3.2	8.7	21.6	31.3	81	0.1	0.2	0.5	0.9	1.9	3.8	8.3	13.8
31	A	0.1	0.1	0.4	1.1	3.1	8.5	21.8	31.9	82	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.7
32	U	0.1	0.1	0.4	1.0	3.0	8.3	21.9	32.5	83	0.1	0.2	0.5	0.9	1.9	4.0	8.3	13.7
33	E	0.1	0.1	0.3	1.0	2.9	8.1	21.8	33.0	84	0.1	0.2	0.5	0.9	1.9	4.0	8.3	13.6
34	T	0.1	0.1	0.3	1.0	2.8	7.9	21.6	33.5	85	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.6
35	E	0.1	0.1	0.3	0.9	2.7	7.8	21.1	33.9	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.6
36	M	0.1	0.1	0.3	0.9	2.6	7.6	20.5	34.2	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.6
37	P	0.1	0.1	0.3	0.9	2.5	7.4	20.0	34.3	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.5
38	R	0.1	0.1	0.3	0.8	2.5	7.2	19.6	34.2	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.5
39	A	0.1	0.1	0.3	0.8	2.4	7.0	19.2	33.8	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.5
40	U	0.1	0.1	0.3	0.8	2.3	6.8	18.8	33.1	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.5
41	E	0.1	0.1	0.3	0.8	2.3	6.6	18.5	32.2	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
42	T	0.1	0.1	0.3	0.8	2.2	6.4	18.2	31.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
43	E	0.1	0.1	0.2	0.7	2.1	6.2	17.8	30.9	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
44	M	0.1	0.2	0.3	0.7	2.0	6.1	17.4	30.3	95	0.1	0.3	0.5	1.1	2.1	4.4	9.1	13.9
45	P	0.1	0.2	0.3	0.7	2.0	5.9	17.0	29.8	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
46	R	0.1	0.2	0.3	0.7	1.9	5.7	16.6	29.3	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
47	A	0.1	0.2	0.3	0.7	1.9	5.5	16.2	28.8	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.5
48	U	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.2	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
49	E	0.1	0.2	0.3	0.7	1.8	5.3	15.4	27.6	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6
50	T	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0									

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	0.8	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	0.8	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	0.8	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	0.8	2.0	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	0.8	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	26.9	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	28.0	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	60	0.1	0.2	0.7	1.9	4.2	7.3	10.4	60	0.1	0.2	0.4	0.7	1.5	3.7	10.7	19.6
E	61	0.1	0.2	0.7	1.8	4.3	7.6	11.1	61	0.1	0.2	0.4	0.7	1.5	3.6	10.4	19.2
P	62	0.1	0.2	0.7	1.8	4.3	7.9	11.9	62	0.1	0.2	0.4	0.7	1.5	3.6	10.1	18.8
R	63	0.1	0.2	0.6	1.7	4.4	8.2	12.6	63	0.1	0.2	0.4	0.8	1.5	3.5	9.9	18.4
E	64	0.1	0.2	0.6	1.7	4.4	8.5	13.3	64	0.1	0.2	0.4	0.8	1.5	3.5	9.6	17.9
R	65	0.1	0.2	0.6	1.7	4.4	8.7	14.1	65	0.1	0.2	0.4	0.8	1.6	3.5	9.4	17.5
A	66	0.1	0.2	0.6	1.6	4.3	8.9	14.9	66	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.0
U	67	0.1	0.2	0.5	1.6	4.2	9.1	15.7	67	0.1	0.2	0.4	0.8	1.6	3.5	9.1	16.6
J	68	0.1	0.2	0.5	1.5	4.1	9.3	16.5	68	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.2
R	69	0.1	0.2	0.5	1.5	4.0	9.4	17.2	69	0.1	0.2	0.4	0.8	1.6	3.4	8.8	15.9
E	70	0.1	0.2	0.5	1.4	3.8	9.6	17.8	70	0.1	0.2	0.4	0.8	1.7	3.4	8.6	15.5
21	0.1	0.2	0.5	1.4	3.8	9.7	18.4	24.3	71	0.1	0.2	0.4	0.8	1.7	3.4	8.5	15.2
22	0.1	0.2	0.5	1.3	3.7	9.7	19.0	25.5	72	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9
D	73	0.1	0.2	0.4	1.3	3.6	9.6	19.4	73	0.1	0.2	0.4	0.8	1.7	3.5	8.3	14.6
E	74	0.1	0.1	0.4	1.2	3.5	9.4	19.8	74	0.1	0.2	0.4	0.9	1.7	3.5	8.2	14.4
G	75	0.1	0.1	0.4	1.2	3.4	9.1	20.2	75	0.1	0.2	0.4	0.9	1.7	3.6	8.2	14.2
R	76	0.1	0.1	0.4	1.1	3.3	8.9	20.6	76	0.1	0.2	0.4	0.9	1.8	3.6	8.2	14.0
E	77	0.1	0.1	0.4	1.1	3.2	8.7	20.9	77	0.1	0.2	0.4	0.9	1.8	3.6	8.1	13.8
E	78	0.1	0.1	0.4	1.1	3.1	8.5	21.1	78	0.1	0.2	0.4	0.9	1.8	3.7	8.1	13.6
S	79	0.1	0.1	0.4	1.0	3.0	8.3	21.3	79	0.1	0.2	0.4	0.9	1.8	3.7	8.1	13.5
30	0.1	0.1	0.3	1.0	2.9	8.1	21.4	31.9	80	0.1	0.2	0.5	0.9	1.8	3.8	8.1	13.4
F	81	0.1	0.3	0.9	2.8	7.9	21.3	32.4	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	13.3
A	82	0.1	0.3	0.9	2.7	7.7	21.0	32.8	82	0.1	0.2	0.5	0.9	1.9	3.8	8.1	13.3
H	83	0.1	0.3	0.9	2.6	7.5	20.5	33.2	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.3
H	84	0.1	0.3	0.9	2.6	7.3	20.0	33.5	84	0.1	0.2	0.5	0.9	1.9	4.0	8.2	13.2
E	85	0.1	0.3	0.8	2.5	7.1	19.5	33.5	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	13.1
E	86	0.1	0.3	0.8	2.4	6.9	19.1	33.3	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.1
H	87	0.1	0.3	0.8	2.3	6.8	18.7	32.9	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.1
E	88	0.1	0.3	0.8	2.3	6.6	18.3	32.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.1
T	89	0.1	0.3	0.7	2.2	6.4	18.0	31.3	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.7	2.1	6.2	17.6	30.6	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	14.6
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	14.4
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	21.7	32.4	81	0.1	0.2	0.5	0.9	1.8	3.8	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	3.8	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	8.1	13.1
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	13.7
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	2.2	4.4	9.1	13.9
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	9.2	14.1
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	4.5	9.3	14.2
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	9.4	14.5
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	4.6	9.5	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					BAND CENTER FREQUENCY, HZ					BAND CENTER FREQUENCY, HZ								
	63	125	250	500	1000	2000	4000	8000	16000	31500	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
10	0.1	0.2	0.7	1.8	4.2	7.5	10.9	13.4			60	0.1	0.2	0.4	0.7	1.5	3.6	10.2	18.9
11	0.1	0.2	0.7	1.8	4.3	7.8	11.6	14.2			61	0.1	0.2	0.4	0.7	1.5	3.5	9.9	18.5
12	0.1	0.2	0.6	1.7	4.4	8.1	12.3	15.1			62	0.1	0.2	0.4	0.7	1.5	3.5	9.7	18.1
13	0.1	0.2	0.6	1.7	4.4	8.4	13.1	16.0			63	0.1	0.2	0.4	0.8	1.5	3.5	9.5	17.6
14	0.1	0.2	0.6	1.6	4.4	8.6	13.9	17.0			64	0.1	0.2	0.4	0.8	1.5	3.5	9.3	17.2
15	0.1	0.2	0.6	1.6	4.3	8.8	14.7	18.1			65	0.1	0.2	0.4	0.8	1.6	3.4	9.1	16.7
16	0.1	0.2	0.5	1.5	4.2	9.0	15.5	19.3			66	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.3
17	0.1	0.2	0.5	1.5	4.0	9.2	16.2	20.4			67	0.1	0.2	0.4	0.8	1.6	3.4	8.7	15.9
18	0.1	0.2	0.5	1.4	3.9	9.3	16.9	21.6			68	0.1	0.2	0.4	0.8	1.6	3.4	8.6	15.6
19	0.1	0.2	0.5	1.4	3.8	9.5	17.6	22.7			69	0.1	0.2	0.4	0.8	1.6	3.4	8.5	15.3
20	0.1	0.2	0.5	1.3	3.7	9.6	18.2	23.9			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
22	0.1	0.1	0.4	1.2	3.6	9.5	19.2	26.2			72	0.1	0.2	0.4	0.8	1.7	3.4	8.2	14.4
23	0.1	0.1	0.4	1.2	3.5	9.3	19.6	27.2			73	0.1	0.2	0.4	0.8	1.7	3.5	8.1	14.2
24	0.1	0.1	0.4	1.2	3.4	9.1	20.0	28.3			74	0.1	0.2	0.4	0.9	1.7	3.5	8.1	13.9
25	0.1	0.1	0.4	1.1	3.3	8.8	20.3	29.0			75	0.1	0.2	0.4	0.9	1.7	3.6	8.1	13.8
26	0.1	0.1	0.4	1.1	3.2	8.6	20.6	29.7			76	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.6
27	0.1	0.1	0.4	1.1	3.1	8.4	20.9	30.4			77	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.4
28	0.1	0.1	0.3	1.0	3.0	8.2	21.1	31.0			78	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.3
29	0.1	0.1	0.3	1.0	2.9	8.0	21.2	31.5			79	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.2
30	0.1	0.1	0.3	1.0	2.8	7.9	21.1	32.0			80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.1
31	0.1	0.1	0.3	0.9	2.7	7.7	20.8	32.5			81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	13.1
32	0.1	0.1	0.3	0.9	2.6	7.5	20.3	32.9			82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	13.1
33	0.1	0.1	0.3	0.9	2.5	7.3	19.7	33.1			83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.0
34	0.1	0.1	0.3	0.8	2.4	7.1	19.3	33.2			84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
35	0.1	0.1	0.3	0.8	2.4	6.9	18.9	33.0			85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.9
36	0.1	0.1	0.3	0.8	2.3	6.7	18.5	32.5			86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.9
37	0.1	0.1	0.3	0.8	2.2	6.5	18.1	31.7			87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
38	0.1	0.1	0.3	0.7	2.2	6.3	17.8	30.9			88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.3	0.7	2.1	6.1	17.4	30.2			89	0.1	0.2	0.5	1.0	2.0	4.2	8.6	13.1
40	0.1	0.1	0.3	0.7	2.0	6.0	17.0	29.6			90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.3	0.7	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	0.2	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	1.9	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	8.2	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	8.0	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	7.9	13.4
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	13.2
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	13.1
29	P 13	0.1	0.1	0.3	1.0	2.8	7.9	21.0	31.6	79	0.1	0.2	0.4	0.9	1.8	3.8	7.9	13.1
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	3.8	7.9	13.0
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	3.8	8.0	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	8.9	13.5
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	13.7
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	0.2	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	0.2	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	0.2	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	0.2	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	9.4	14.5
49	P 13	0.1	0.2	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	14.6
50	E 14	0.1	0.2	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						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	0.1	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				
T 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				
E 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				
M 12	0.1	0.2	0.6	1.7	4.3	8.3	12.9	15.7	M 62	0.1	0.2	0.4	0.7	1.5	3.4	9.3	17.3				
P 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				
E 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				
R 15	0.1	0.2	0.5	1.5	4.2	8.9	15.2	18.9	R 65	0.1	0.2	0.4	0.8	1.6	3.4	8.8	16.0				
A 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				
T 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				
U 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				
R 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				
E 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	• 71	0.1	0.2	0.4	0.8	1.7	3.4	8.0	14.2				
D 22	0.1	0.1	0.4	1.2	3.4	9.3	19.4	26.8	D 72	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.9				
E 24	0.1	0.1	0.4	1.1	3.2	8.7	20.1	28.0	E 74	0.1	0.2	0.4	0.9	1.7	3.5	8.0	13.6				
G 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				
R 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				
E 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				
E 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				
S 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	30	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.0				
F 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				
A 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				
H 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				
Q 34	0.1	0.1	0.3	0.8	2.3	6.8	18.7	32.6	Q 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.8				
E 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				
N 36	0.1	0.1	0.3	0.7	2.2	6.4	17.9	31.4	N 86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9				
H 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				
E 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				
I 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				
T 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	41	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	1.8	5.4	15.6	27.8	42	0.1	0.3	0.5	1.0	2.1	4.2	8.9	13.5				
43	0.1	0.2	0.3	0.7	1.8	5.2	15.2	27.2	43	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	44	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.6				
45	0.1	0.2	0.3	0.7	1.7	4.9	14.5	26.0	45	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	46	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	47	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	48	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	49	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	50	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.1	0.1	0.3	1.0	2.8	7.8	20.9	31.3	78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.9
29	0.1	0.1	0.3	0.9	2.7	7.7	20.7	31.8	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.8
30	0.1	0.1	0.3	0.9	2.6	7.5	20.7	32.2	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.8
31	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	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	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	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	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	2.0	4.0	8.3	12.7
36	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	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	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	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	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	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	0.1	0.1	0.3	0.7	1.8	5.3	15.4	27.3	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
43	0.1	0.2	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	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	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	9.1	14.1
46	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	14.2
47	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	0.1	0.2	0.3	0.6	1.5	4.4	13.2	23.8	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	4.3	12.8	23.3	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	12.5	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	0.9	1.5	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	1.9	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	0.7	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	4.1	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	3.4
20	0.1	0.1	0.4	1.2	3.4	9.1	70	0.1	0.2	0.4	0.8	1.7	3.4
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	8.0	76	0.1	0.2	0.4	0.9	1.8	3.6
27	0.1	0.1	0.3	1.0	2.8	7.8	77	0.1	0.2	0.4	0.9	1.8	3.6
28	0.1	0.1	0.3	0.9	2.7	7.6	78	0.1	0.2	0.4	0.9	1.8	3.7
29	0.1	0.1	0.3	0.9	2.6	7.4	79	0.1	0.2	0.4	0.9	1.9	3.7
30	0.1	0.1	0.3	0.9	2.5	7.2	80	0.1	0.2	0.5	0.9	1.9	3.8
31	0.1	0.1	0.3	0.8	2.4	7.0	81	0.1	0.2	0.5	0.9	1.9	3.8
32	0.1	0.1	0.3	0.8	2.4	6.8	82	0.1	0.2	0.5	0.9	1.9	3.9
33	0.1	0.1	0.3	0.8	2.3	6.6	83	0.1	0.2	0.5	0.9	1.9	3.9
34	0.1	0.1	0.3	0.7	2.2	6.4	84	0.1	0.2	0.5	0.9	1.9	3.9
35	0.1	0.1	0.3	0.7	2.1	6.2	85	0.1	0.2	0.5	1.0	1.9	4.0
36	0.1	0.1	0.3	0.7	2.1	6.1	86	0.1	0.2	0.5	1.0	2.0	4.0
37	0.1	0.1	0.3	0.7	2.0	5.9	87	0.1	0.2	0.5	1.0	2.0	4.0
38	0.1	0.1	0.3	0.7	1.9	5.7	88	0.1	0.2	0.5	1.0	2.0	4.1
39	0.1	0.1	0.3	0.7	1.9	5.6	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	4.5	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	P	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	M	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	A	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	R	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	E	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	S	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	F	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	H	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	M	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	A	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	R	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	S	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	F	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	H	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	M	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	3.3	7.9	14.0
19	A	0.1	0.1	0.4	1.2	3.5	9.3	18.5	25.0	69	0.1	0.2	0.4	0.8	1.6	3.4	7.8	13.8
20	R	0.1	0.1	0.4	1.2	3.4	9.2	18.9	26.1	70	0.1	0.2	0.4	0.8	1.7	3.4	7.8	13.6
21	E	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	S	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	F	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	H	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	M	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	1.7	3.6	7.7	12.7
26	A	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	R	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	3.6	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	S	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	F	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	1.9	3.8	8.0	12.5
31	H	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	3.9	8.1	12.5
32	M	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	4.0	8.2	12.5
33	A	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	R	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	E	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	S	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	F	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	H	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	4.0	8.4	12.9
39	M	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	4.0	8.4	12.9
40	A	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	4.0	8.4	12.9
41	R	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.1	91	0.1	0.3	0.5	1.0	2.1	4.0	8.4	12.9
42	E	0.1	0.1	0.3	0.6	1.6	4.8	14.2	25.5	92	0.1	0.3	0.5	1.0	2.1	4.0	8.4	12.9
43	S	0.1	0.2	0.3	0.6	1.6	4.7	13.8	24.9	93	0.1	0.3	0.5	1.0	2.1	4.0	8.4	12.9
44	F	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	4.0	8.4	12.9
45	H	0.1	0.2	0.3	0.6	1.5	4.6	13.5	24.3	95	0.1	0.3	0.5	1.1	2.2	4.0	8.4	12.9
46	M	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	4.0	8.4	12.9
47	A	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	4.0	8.4	12.9
48	R	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	4.0	8.4	12.9
49	E	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	4.0	8.4	12.9
50	S	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	4.0	8.4	12.9

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	13.5	18.7
6	0.1	0.2	0.7	1.9	4.0	6.8	9.7	12.0	15.1	18.2
7	0.1	0.2	0.7	1.8	4.1	7.2	10.3	12.8	16.6	17.9
8	0.1	0.2	0.6	1.7	4.2	7.5	11.0	13.6	18.1	17.0
9	0.1	0.2	0.6	1.7	4.2	7.8	11.8	14.4	19.6	16.5
10	0.1	0.2	0.6	1.6	4.2	8.1	12.6	15.4	21.1	16.1
11	0.1	0.2	0.6	1.6	4.2	8.3	13.3	16.3	22.6	15.7
12	0.1	0.2	0.6	1.6	4.2	8.5	14.1	17.4	24.1	15.3
13	0.1	0.2	0.5	1.5	4.1	8.7	14.9	18.5	25.6	15.0
14	0.1	0.2	0.5	1.5	3.9	8.9	15.7	19.7	27.1	14.6
15	0.1	0.2	0.5	1.4	3.8	9.0	16.3	20.8	28.6	14.3
16	0.1	0.2	0.5	1.4	3.7	9.2	17.0	21.9	30.1	14.1
17	0.1	0.2	0.5	1.3	3.6	9.3	17.6	23.1	31.6	13.8
18	0.1	0.1	0.4	1.3	3.5	9.3	18.1	24.3	33.1	13.6
19	0.1	0.1	0.4	1.2	3.4	9.2	18.6	25.4	34.6	13.4
20	0.1	0.1	0.4	1.2	3.3	9.1	19.0	26.3	36.1	13.2
21	0.1	0.1	0.4	1.1	3.2	8.8	19.4	27.3	37.6	13.0
22	0.1	0.1	0.4	1.1	3.1	8.5	19.7	28.1	39.1	12.8
23	0.1	0.1	0.4	1.1	3.0	8.1	20.0	29.5	40.6	12.6
24	0.1	0.1	0.3	1.0	2.9	7.9	20.5	30.1	42.1	12.4
25	0.1	0.1	0.3	1.0	2.8	7.7	20.9	31.1	43.6	12.2
26	0.1	0.1	0.3	0.9	2.7	7.6	20.4	31.5	45.1	12.0
27	0.1	0.1	0.3	0.9	2.6	7.4	20.1	31.5	46.6	11.8
28	0.1	0.1	0.3	0.8	2.5	7.2	19.9	31.9	48.1	11.6
29	0.1	0.1	0.3	0.8	2.4	7.0	19.0	32.1	49.6	11.4
30	0.1	0.1	0.3	0.8	2.3	6.8	18.5	32.0	51.1	11.2
31	0.1	0.1	0.3	0.8	2.3	6.6	18.1	31.8	52.6	11.0
32	0.1	0.1	0.3	0.7	2.2	6.4	17.7	31.2	54.1	10.8
33	0.1	0.1	0.3	0.7	2.1	6.2	17.4	30.3	55.6	10.6
34	0.1	0.1	0.3	0.7	2.0	6.0	17.1	29.6	57.1	10.4
35	0.1	0.1	0.3	0.7	2.0	5.9	16.7	29.0	58.6	10.2
36	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.4	60.1	10.0
37	0.1	0.1	0.3	0.7	1.9	5.5	15.9	27.8	61.6	9.8
38	0.1	0.1	0.3	0.7	1.8	5.3	15.5	27.3	63.1	9.6
39	0.1	0.1	0.3	0.7	1.7	5.2	15.1	26.9	64.6	9.4
40	0.1	0.1	0.3	0.6	1.7	5.0	14.7	26.3	66.1	9.2
41	0.1	0.1	0.3	0.6	1.7	4.8	14.3	25.7	67.6	9.0
42	0.1	0.1	0.3	0.6	1.6	4.6	13.9	25.1	69.1	8.8
43	0.1	0.2	0.3	0.6	1.6	4.6	13.6	24.5	70.6	8.6
44	0.1	0.2	0.3	0.6	1.5	4.5	13.2	23.9	72.1	8.4
45	0.1	0.2	0.3	0.6	1.5	4.3	12.9	23.4	73.6	8.2
46	0.1	0.2	0.3	0.6	1.5	4.2	12.6	22.8	75.1	8.0
47	0.1	0.2	0.3	0.6	1.5	4.1	12.2	22.2	76.6	7.8
48	0.1	0.2	0.3	0.6	1.5	4.0	11.9	21.7	78.1	7.6
49	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.2	79.6	7.4
50	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.2	81.1	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	0.9	2.6	7.3	19.8	31.5	78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.4
29	F 37	0.1	0.1	0.3	0.8	2.5	7.1	19.2	31.9	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.3
30	F 38	0.1	0.1	0.3	0.8	2.4	6.9	18.7	31.9	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.3
31	F 39	0.1	0.1	0.3	0.8	2.3	6.7	18.3	31.8	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
32	F 40	0.1	0.1	0.3	0.8	2.2	6.5	17.9	31.4	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
33	F 41	0.1	0.1	0.3	0.7	2.2	6.3	17.5	30.7	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
34	F 42	0.1	0.1	0.3	0.7	2.1	6.1	17.2	29.9	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	F 43	0.1	0.1	0.3	0.7	2.0	5.9	16.8	29.2	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
36	F 44	0.1	0.1	0.3	0.7	1.9	5.8	16.4	28.6	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
37	F 45	0.1	0.1	0.3	0.7	1.9	5.6	16.0	28.0	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	F 46	0.1	0.1	0.3	0.7	1.8	5.4	15.6	27.5	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	F 47	0.1	0.1	0.3	0.6	1.8	5.2	15.2	27.0	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	F 48	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.5	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
41	F 49	0.1	0.1	0.3	0.6	1.7	4.9	14.5	25.9	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	F 50	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.3	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
43	F 51	0.1	0.2	0.3	0.6	1.6	4.7	13.7	24.7	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	F 52	0.1	0.2	0.3	0.6	1.6	4.5	13.4	24.1	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
45	F 53	0.1	0.2	0.3	0.6	1.5	4.4	13.0	23.6	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
46	F 54	0.1	0.2	0.3	0.6	1.5	4.2	12.7	23.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
47	F 55	0.1	0.2	0.3	0.6	1.5	4.1	12.3	22.4	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
48	F 56	0.1	0.2	0.3	0.6	1.5	4.0	12.0	21.9	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	F 57	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.3	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
50	F 58	0.1	0.2	0.3	0.7	1.4	3.8	11.4	20.8	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 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	20.0
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	19.5
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	18.9
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	18.5
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	18.0
6	0.1	0.2	0.7	1.8	4.1	7.0	10.7	12.4	56	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.7
7	0.1	0.2	0.6	1.8	4.1	7.3	10.1	13.2	57	0.1	0.2	0.4	0.7	1.4	3.3	9.2	17.2
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	16.8
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	16.4
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	15.9
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	15.5
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	15.1
13	0.1	0.2	0.5	1.5	4.1	8.8	15.3	19.2	63	0.1	0.2	0.4	0.8	1.5	3.2	8.2	14.8
14	0.1	0.2	0.5	1.4	3.9	9.0	16.0	20.3	64	0.1	0.2	0.4	0.8	1.5	3.2	8.1	14.5
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	14.2
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	13.9
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	13.6
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	13.4
19	0.1	0.1	0.4	1.2	3.3	9.0	18.7	25.9	69	0.1	0.2	0.4	0.9	1.6	3.4	7.7	13.2
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	13.0
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	12.9
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	12.7
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	12.6
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	12.5
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	12.4
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	12.4
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	12.4
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	12.3
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	12.3
30	0.1	0.1	0.3	0.8	2.3	6.6	18.0	31.6	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.3
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	12.3
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	12.4
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	8.1	12.4
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	12.5
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	12.6
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	12.6
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	12.9
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	13.0
39	0.1	0.1	0.3	0.6	1.7	5.1	15.0	26.7	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.1	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	4.9	14.2	25.5	91	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.9	92	0.1	0.2	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.3	0.6	1.5	4.6	13.5	24.3	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.8	94	0.1	0.2	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.2	95	0.1	0.2	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.6	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.2	0.3	0.6	1.5	4.0	12.1	22.0	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	0.6	1.4	3.9	11.8	21.5	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.4	3.8	11.4	21.0	99	0.1	0.2	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	11.2	20.5	100	0.1	0.2	0.6	1.1	2.2	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 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	31500	63	125	250	500	1000
1	T 9	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
2	E 11	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	P 13	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
4	E 14	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
5	A 16	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
6	T 17	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
7	E 18	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
8	P 19	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
9	E 20	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
10	A 21	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
11	T 22	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
12	E 23	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
13	P 24	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
14	E 25	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
15	A 26	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
16	T 27	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
17	E 28	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
18	P 29	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
19	E 30	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
20	A 31	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
21	T 32	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
22	E 33	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
23	P 34	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
24	E 35	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
25	A 36	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
26	T 37	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
27	E 38	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
28	P 39	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
29	E 40	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
30	A 41	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
31	T 42	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
32	E 43	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
33	P 44	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
34	E 45	0.1	0.1	0.3	0.7	1.8	5.6	16.0	27.8			0.1	0.2	0.5	1.0	2.0
35	A 46	0.1	0.1	0.3	0.6	1.8	5.2	15.2	26.3			0.1	0.2	0.5	1.0	2.0
36	T 47	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
37	E 48	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
38	P 49	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
39	E 50	0.1	0.1	0.3	0.6	1.5	4.5	13.3	24.0			0.1	0.3	0.5	1.0	2.1
40	A 51	0.1	0.1	0.3	0.6	1.5	4.3	12.9	23.4			0.1	0.3	0.5	1.1	2.1
41	T 52	0.1	0.2	0.3	0.6	1.5	4.2	12.6	22.8			0.1	0.3	0.5	1.1	2.2
42	E 53	0.1	0.2	0.3	0.6	1.5	4.1	12.2	22.2			0.1	0.3	0.5	1.1	2.2
43	P 54	0.1	0.2	0.3	0.6	1.4	4.0	11.9	21.7			0.1	0.3	0.5	1.1	2.2
44	E 55	0.1	0.2	0.3	0.6	1.4	3.9	11.6	21.2			0.1	0.3	0.5	1.1	2.2
45	A 56	0.1	0.2	0.3	0.6	1.4	3.8	11.3	20.7			0.1	0.3	0.6	1.1	2.2
46	T 57	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
47	E 58	0.1	0.2	0.3	0.7	1.4	3.6	10.7	19.7			0.1	0.3	0.6	1.1	2.3
48	P 59	0.1	0.2	0.3	0.7	1.4	3.5	10.4	19.4			0.1	0.3	0.6	1.1	2.3
49	E 60	0.1	0.2	0.3	0.7	1.4	3.4	10.1	19.1			0.1	0.3	0.6	1.1	2.3
50	A 61	0.1	0.2	0.3	0.7	1.4	3.3	9.8	18.8			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 61 PERCENT RELATIVE HUMIDITY

		BAND CENTER FREQUENCY, MZ						BAND CENTER FREQUENCY, MZ					
		63	125	250	500	1000	2000	4000	8000	1000	2000	4000	8000
1	T 9	0.1	0.3	0.8	1.9	3.6	5.3	7.5	9.5	0.1	0.2	0.3	0.3
2	E 10	0.1	0.3	0.7	1.9	3.7	5.7	8.0	10.1	0.1	0.2	0.3	0.3
3	E 11	0.1	0.3	0.7	1.9	3.8	6.1	8.6	10.7	0.1	0.2	0.3	0.3
4	E 12	0.1	0.3	0.7	1.9	3.9	6.4	9.2	11.4	0.1	0.2	0.3	0.3
5	E 13	0.1	0.2	0.7	1.8	4.0	6.8	9.8	12.1	0.1	0.2	0.3	0.3
6	E 14	0.1	0.2	0.7	1.8	4.1	7.2	10.4	12.9	0.1	0.2	0.3	0.3
7	E 15	0.1	0.2	0.6	1.7	4.1	7.5	11.2	13.7	0.1	0.2	0.4	0.7
8	E 16	0.1	0.2	0.6	1.7	4.2	7.8	11.9	14.6	0.1	0.2	0.4	0.7
9	E 17	0.1	0.2	0.6	1.6	4.2	8.1	12.7	15.5	0.1	0.2	0.4	0.7
10	E 18	0.1	0.2	0.6	1.6	4.2	8.3	13.4	16.5	0.1	0.2	0.4	0.7
11	E 19	0.1	0.2	0.5	1.5	4.1	8.5	14.2	17.6	0.1	0.2	0.4	0.7
12	E 20	0.1	0.2	0.5	1.5	4.1	8.7	15.0	18.7	0.1	0.2	0.4	0.7
13	E 21	0.1	0.2	0.5	1.4	3.9	8.8	15.7	19.9	0.1	0.2	0.4	0.7
14	E 22	0.1	0.2	0.5	1.4	3.8	8.9	16.4	21.0	0.1	0.2	0.4	0.8
15	E 23	0.1	0.2	0.5	1.3	3.6	9.1	17.0	22.1	0.1	0.2	0.4	0.8
16	E 24	0.1	0.1	0.4	1.3	3.5	9.1	17.6	23.3	0.1	0.2	0.4	0.8
17	E 25	0.1	0.1	0.4	1.2	3.4	9.1	18.1	24.4	0.1	0.2	0.4	0.8
18	E 26	0.1	0.1	0.4	1.2	3.3	9.0	18.5	25.5	0.1	0.2	0.4	0.8
19	E 27	0.1	0.1	0.4	1.1	3.2	8.8	18.9	26.6	0.1	0.2	0.4	0.8
20	E 28	0.1	0.1	0.4	1.1	3.1	8.5	19.3	27.3	0.1	0.2	0.4	0.8
21	E 29	0.1	0.1	0.4	1.1	3.0	8.3	19.6	28.1	0.1	0.2	0.4	0.8
22	E 30	0.1	0.1	0.3	1.0	2.9	8.1	20.1	29.3	0.1	0.2	0.4	0.8
23	E 31	0.1	0.1	0.3	1.0	2.8	7.9	20.2	30.4	0.1	0.2	0.4	0.8
24	E 32	0.1	0.1	0.3	0.9	2.7	7.7	20.2	31.5	0.1	0.2	0.4	0.8
25	E 33	0.1	0.1	0.3	0.9	2.6	7.5	20.1	32.6	0.1	0.2	0.4	0.8
26	E 34	0.1	0.1	0.3	0.8	2.5	7.1	19.4	33.7	0.1	0.2	0.4	0.8
27	E 35	0.1	0.1	0.3	0.8	2.4	6.9	18.8	34.8	0.1	0.2	0.4	0.8
28	E 36	0.1	0.1	0.3	0.8	2.3	6.7	18.4	35.9	0.1	0.2	0.4	0.8
29	E 37	0.1	0.1	0.3	0.8	2.2	6.5	18.0	37.0	0.1	0.2	0.4	0.8
30	E 38	0.1	0.1	0.3	0.7	2.2	6.3	17.6	38.1	0.1	0.2	0.4	0.8
31	E 39	0.1	0.1	0.3	0.7	2.1	6.2	17.2	39.2	0.1	0.2	0.4	0.8
32	E 40	0.1	0.1	0.3	0.7	2.0	6.0	16.9	40.3	0.1	0.2	0.4	0.8
33	E 41	0.1	0.1	0.3	0.7	2.0	5.8	16.5	41.4	0.1	0.2	0.4	0.8
34	E 42	0.1	0.1	0.3	0.7	1.9	5.6	16.1	42.5	0.1	0.2	0.4	0.8
35	E 43	0.1	0.1	0.3	0.7	1.8	5.5	15.7	43.6	0.1	0.2	0.4	0.8
36	E 44	0.1	0.1	0.3	0.6	1.8	5.3	15.3	44.7	0.1	0.2	0.4	0.8
37	E 45	0.1	0.1	0.3	0.6	1.7	5.1	14.9	45.8	0.1	0.2	0.4	0.8
38	E 46	0.1	0.1	0.3	0.6	1.7	5.0	14.5	46.9	0.1	0.2	0.4	0.8
39	E 47	0.1	0.1	0.3	0.6	1.6	4.8	14.1	48.0	0.1	0.2	0.4	0.8
40	E 48	0.1	0.1	0.3	0.5	1.6	4.7	13.8	49.1	0.1	0.2	0.4	0.8
41	E 49	0.1	0.1	0.3	0.5	1.6	4.6	13.4	50.2	0.1	0.2	0.4	0.8
42	E 50	0.1	0.1	0.3	0.5	1.5	4.4	13.1	51.3	0.1	0.2	0.4	0.8
43	E 51	0.1	0.1	0.3	0.5	1.5	4.3	12.7	52.4	0.1	0.2	0.4	0.8
44	E 52	0.1	0.1	0.3	0.5	1.4	4.1	12.4	53.5	0.1	0.2	0.4	0.8
45	E 53	0.1	0.1	0.3	0.5	1.4	4.0	12.0	54.6	0.1	0.2	0.4	0.8
46	E 54	0.1	0.1	0.3	0.5	1.4	3.9	11.7	55.7	0.1	0.2	0.4	0.8
47	E 55	0.1	0.1	0.3	0.5	1.4	3.8	11.4	56.8	0.1	0.2	0.4	0.8
48	E 56	0.1	0.1	0.3	0.5	1.4	3.7	11.1	57.9	0.1	0.2	0.4	0.8
49	E 57	0.1	0.1	0.3	0.5	1.4	3.6	10.8	59.0	0.1	0.2	0.4	0.8
50	E 58	0.1	0.1	0.3	0.5	1.4	3.6	10.8	59.9	0.1	0.2	0.4	0.8

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
A 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	E 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, HZ					BAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.1	0.3	0.7	1.9	3.6	5.5	7.8	9.8		
2	0.1	0.3	0.7	1.9	3.7	5.9	8.3	10.4		
3	0.1	0.3	0.7	1.9	3.8	6.3	8.9	11.1		
4	0.1	0.3	0.7	1.8	3.9	6.6	9.5	11.8		
5	0.1	0.2	0.7	1.8	4.0	7.0	10.1	12.5		
6	0.1	0.2	0.6	1.7	4.1	7.3	10.8	13.3		
7	0.1	0.2	0.6	1.7	4.1	7.6	11.6	14.2		
8	0.1	0.2	0.6	1.6	4.2	7.9	12.3	15.1		
9	0.1	0.2	0.6	1.6	4.1	8.2	13.1	16.1		
10	0.1	0.2	0.5	1.5	4.1	8.4	13.8	17.1		
11	0.1	0.2	0.5	1.5	4.0	8.5	14.6	18.2		
12	0.1	0.2	0.5	1.4	3.8	8.7	15.4	19.4		
13	0.1	0.2	0.5	1.4	3.7	8.8	16.1	20.5		
14	0.1	0.2	0.5	1.3	3.6	9.0	16.7	21.6		
15	0.1	0.1	0.4	1.3	3.5	9.1	17.3	22.8		
16	0.1	0.1	0.4	1.2	3.4	9.1	17.8	24.0		
17	0.1	0.1	0.4	1.2	3.3	9.0	18.3	25.0		
18	0.1	0.1	0.4	1.1	3.1	8.5	19.0	26.8		
19	0.1	0.1	0.4	1.1	3.0	8.3	19.6	28.9		
20	0.1	0.1	0.3	1.0	2.9	7.8	19.8	30.5		
21	0.1	0.1	0.3	1.0	2.9	7.7	20.0	32.1		
22	0.1	0.1	0.3	0.9	2.7	7.5	20.0	33.8		
23	0.1	0.1	0.3	0.9	2.6	7.3	19.8	35.5		
24	0.1	0.1	0.3	0.8	2.5	7.1	19.4	37.2		
25	0.1	0.1	0.3	0.8	2.4	6.9	18.8	39.0		
26	0.1	0.1	0.3	0.8	2.3	6.7	18.3	40.8		
27	0.1	0.1	0.3	0.8	2.2	6.5	17.9	42.6		
28	0.1	0.1	0.3	0.7	2.2	6.3	17.5	44.4		
29	0.1	0.1	0.3	0.7	2.1	6.1	17.1	46.2		
30	0.1	0.1	0.3	0.7	2.0	6.0	16.8	48.0		
31	0.1	0.1	0.3	0.7	2.0	5.8	16.4	50.0		
32	0.1	0.1	0.3	0.7	1.9	5.6	16.1	52.0		
33	0.1	0.1	0.3	0.6	1.8	5.4	15.7	54.0		
34	0.1	0.1	0.3	0.6	1.7	5.1	14.9	56.0		
35	0.1	0.1	0.3	0.6	1.7	4.9	14.5	58.0		
36	0.1	0.1	0.3	0.6	1.6	4.8	14.1	60.0		
37	0.1	0.1	0.3	0.6	1.6	4.7	13.7	62.0		
38	0.1	0.1	0.3	0.6	1.5	4.5	13.3	64.0		
39	0.1	0.1	0.3	0.6	1.5	4.4	13.0	66.0		
40	0.1	0.1	0.3	0.6	1.5	4.2	12.7	68.0		
41	0.1	0.1	0.3	0.6	1.5	4.1	12.3	70.0		
42	0.1	0.1	0.3	0.6	1.4	4.0	12.0	72.0		
43	0.1	0.1	0.3	0.6	1.4	3.9	11.6	74.0		
44	0.1	0.1	0.3	0.6	1.4	3.8	11.3	76.0		
45	0.1	0.1	0.3	0.6	1.4	3.7	11.0	78.0		
46	0.1	0.1	0.3	0.6	1.4	3.6	10.8	80.0		
47	0.1	0.1	0.3	0.6	1.4	3.5	10.5	82.0		
48	0.1	0.1	0.3	0.6	1.4	3.5	10.3	84.0		
49	0.1	0.1	0.3	0.6	1.4	3.5	10.1	86.0		
50	0.1	0.1	0.3	0.6	1.4	3.5	10.0	88.0		

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	4.2	8.9
43	0.1	0.1	0.2	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	4.0	12.1	22.0		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	3.9	11.7	21.4		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	3.8	11.4	20.9		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	3.7	11.1	20.4		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	3.6	10.9	19.9		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	10.6	19.4		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	0.4	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	0.1	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	17.7	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	4.4	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	4.5	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, HZ					RAND CENTER FREQUENCY, HZ					RAND CENTER FREQUENCY, HZ				
	63	125	250	500	1000	2000	4000	8000	16000	32000	63	125	250	500	1000
1	0.1	0.3	0.7	1.9	3.7	5.8	8.2	10.3	12.5	14.6	0.1	0.3	0.7	1.9	3.7
2	0.1	0.2	0.7	1.9	3.8	6.2	8.7	10.9	13.1	15.3	0.1	0.2	0.7	1.9	3.8
3	0.1	0.2	0.7	1.8	3.9	6.5	9.3	11.6	13.8	16.0	0.1	0.2	0.7	1.8	3.9
4	0.1	0.2	0.7	1.8	4.0	6.9	10.0	12.3	14.5	16.7	0.1	0.2	0.7	1.8	4.0
5	0.1	0.2	0.7	1.7	4.0	7.2	10.7	13.1	15.3	17.5	0.1	0.2	0.7	1.7	4.0
6	0.1	0.2	0.6	1.6	4.1	7.6	11.4	14.0	16.2	18.4	0.1	0.2	0.6	1.6	4.1
7	0.1	0.2	0.6	1.6	4.1	7.8	12.2	14.9	17.1	19.3	0.1	0.2	0.6	1.6	4.1
8	0.1	0.2	0.6	1.6	4.1	8.1	12.9	15.9	18.1	20.3	0.1	0.2	0.6	1.6	4.1
9	0.1	0.2	0.5	1.5	4.1	8.3	13.7	16.9	19.1	21.3	0.1	0.2	0.5	1.5	4.1
10	0.1	0.2	0.5	1.5	3.9	8.4	14.5	18.0	20.2	22.4	0.1	0.2	0.5	1.5	3.9
11	0.1	0.2	0.5	1.4	3.8	8.6	15.2	19.2	21.1	23.3	0.1	0.2	0.5	1.4	3.8
12	0.1	0.2	0.5	1.4	3.7	8.7	15.9	20.2	21.4	24.2	0.1	0.2	0.5	1.4	3.7
13	0.1	0.2	0.5	1.3	3.6	8.9	16.5	21.4	21.4	25.1	0.1	0.2	0.5	1.3	3.6
14	0.1	0.1	0.4	1.3	3.5	9.0	17.1	22.6	21.4	26.0	0.1	0.2	0.4	1.3	3.5
15	0.1	0.1	0.4	1.2	3.4	9.0	17.6	23.7	21.4	26.9	0.1	0.2	0.4	1.2	3.4
16	0.1	0.1	0.4	1.2	3.3	9.0	18.1	24.7	21.4	27.8	0.1	0.2	0.4	1.2	3.3
17	0.1	0.1	0.4	1.1	3.2	8.7	18.4	25.7	21.4	28.7	0.1	0.2	0.4	1.1	3.2
18	0.1	0.1	0.4	1.1	3.1	8.4	18.8	26.6	21.4	29.6	0.1	0.2	0.4	1.1	3.1
19	0.1	0.1	0.4	1.0	3.0	8.2	19.1	27.4	21.4	30.5	0.1	0.2	0.4	1.0	3.0
20	0.1	0.1	0.3	1.0	2.9	8.0	19.4	28.1	21.4	31.4	0.1	0.2	0.4	1.0	2.9
21	0.1	0.1	0.3	1.0	2.8	7.8	19.6	28.6	21.4	32.3	0.1	0.2	0.4	1.0	2.8
22	0.1	0.1	0.3	0.9	2.7	7.6	19.8	29.2	21.4	33.2	0.1	0.2	0.4	0.9	2.7
23	0.1	0.1	0.3	0.9	2.6	7.4	19.7	29.7	21.4	34.1	0.1	0.2	0.4	0.9	2.6
24	0.1	0.1	0.3	0.9	2.5	7.2	19.5	30.2	21.4	35.0	0.1	0.2	0.4	0.9	2.5
25	0.1	0.1	0.3	0.8	2.5	7.0	19.1	30.6	21.4	35.9	0.1	0.2	0.4	0.9	2.5
26	0.1	0.1	0.3	0.8	2.4	6.8	18.5	30.9	21.4	36.8	0.1	0.2	0.4	0.9	2.4
27	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.9	21.4	37.7	0.1	0.2	0.4	0.9	2.3
28	0.1	0.1	0.3	0.7	2.2	6.4	17.6	30.8	21.4	38.6	0.1	0.2	0.4	0.9	2.2
29	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.3	21.4	39.5	0.1	0.2	0.4	0.9	2.1
30	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6	21.4	40.4	0.1	0.2	0.4	0.9	2.1
31	0.1	0.1	0.3	0.7	2.0	5.9	16.6	28.8	21.4	41.3	0.1	0.2	0.4	0.9	2.0
32	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1	21.4	42.2	0.1	0.2	0.4	0.9	1.9
33	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.5	21.4	43.1	0.1	0.2	0.4	0.9	1.9
34	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.9	21.4	44.0	0.1	0.2	0.4	0.9	1.8
35	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.4	21.4	44.9	0.1	0.2	0.4	0.9	1.7
36	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.0	21.4	45.8	0.1	0.2	0.4	0.9	1.7
37	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.4	21.4	46.7	0.1	0.2	0.4	0.9	1.6
38	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.8	21.4	47.6	0.1	0.2	0.4	0.9	1.6
39	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2	21.4	48.5	0.1	0.2	0.4	0.9	1.6
40	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6	21.4	49.4	0.1	0.2	0.4	0.9	1.5
41	0.1	0.1	0.3	0.6	1.5	4.3	12.8	23.1	21.4	50.3	0.1	0.2	0.4	0.9	1.5
42	0.1	0.1	0.3	0.6	1.5	4.2	12.4	22.5	21.4	51.2	0.1	0.2	0.4	0.9	1.5
43	0.1	0.1	0.3	0.6	1.4	4.0	12.1	21.9	21.4	52.1	0.1	0.2	0.4	0.9	1.4
44	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4	21.4	53.0	0.1	0.2	0.4	0.9	1.4
45	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.8	21.4	53.9	0.1	0.2	0.4	0.9	1.4
46	0.1	0.2	0.3	0.6	1.4	3.7	11.1	20.3	21.4	54.8	0.1	0.2	0.4	0.9	1.4
47	0.1	0.2	0.3	0.6	1.4	3.6	10.8	19.8	21.4	55.7	0.1	0.2	0.4	0.9	1.4
48	0.1	0.2	0.3	0.6	1.4	3.5	10.5	19.3	21.4	56.6	0.1	0.2	0.4	0.9	1.4
49	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.8	21.4	57.5	0.1	0.2	0.4	0.9	1.4
50	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.3	21.4	58.4	0.1	0.2	0.4	0.9	1.4

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, MZ					RAND CENTER FREQUENCY, MZ												
		63	125	250	500	1000	2000	4000	8000			63	125	250	500	1000	2000	4000	8000
1	T	0.1	0.3	0.7	1.9	3.7	5.9	8.3	10.4	51	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.6	
2	E	0.1	0.2	0.7	1.9	3.8	6.3	8.9	11.1	52	0.1	0.2	0.3	0.7	1.4	3.2	9.2	17.2	
3	M	0.1	0.2	0.7	1.8	3.9	6.6	9.5	11.8	53	0.1	0.2	0.3	0.7	1.4	3.2	9.0	16.8	
4	P	0.1	0.2	0.6	1.7	4.0	7.0	10.1	12.5	54	0.1	0.2	0.3	0.7	1.4	3.2	8.8	16.3	
5	R	0.1	0.2	0.6	1.7	4.0	7.3	10.8	13.3	55	0.1	0.2	0.3	0.7	1.4	3.2	8.6	15.9	
6	E	0.1	0.2	0.6	1.6	4.1	7.6	11.6	14.2	56	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.4	
7	T	0.1	0.2	0.6	1.6	4.1	7.9	12.4	15.1	57	0.1	0.2	0.4	0.7	1.4	3.1	8.2	15.0	
8	E	0.1	0.2	0.5	1.5	4.1	8.1	13.1	16.1	58	0.1	0.2	0.4	0.7	1.5	3.1	8.0	14.6	
9	M	0.1	0.2	0.5	1.5	4.0	8.3	13.9	17.2	59	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.3	
10	P	0.1	0.2	0.5	1.4	3.9	8.5	14.7	18.3	60	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.0	
11	R	0.1	0.2	0.5	1.4	3.7	8.6	15.4	19.4	61	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.7	
12	E	0.1	0.2	0.5	1.3	3.6	8.8	16.1	20.5	62	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.4	
13	T	0.1	0.2	0.4	1.3	3.5	8.9	16.7	21.7	63	0.1	0.2	0.4	0.8	1.5	3.1	7.4	13.2	
14	E	0.1	0.1	0.4	1.2	3.4	8.9	17.2	22.9	64	0.1	0.2	0.4	0.8	1.5	3.2	7.4	12.9	
15	M	0.1	0.1	0.4	1.2	3.4	8.9	17.7	24.0	65	0.1	0.2	0.4	0.8	1.6	3.2	7.4	12.7	
16	P	0.1	0.1	0.4	1.2	3.3	8.8	18.1	25.0	66	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.6	
17	R	0.1	0.1	0.4	1.1	3.2	8.6	18.5	25.9	67	0.1	0.2	0.4	0.8	1.6	3.3	7.3	12.4	
18	E	0.1	0.1	0.4	1.1	3.1	8.3	18.9	26.8	68	0.1	0.2	0.4	0.8	1.6	3.3	7.3	12.2	
19	T	0.1	0.1	0.3	1.0	3.0	8.1	19.2	27.5	69	0.1	0.2	0.4	0.8	1.6	3.4	7.2	12.1	
20	E	0.1	0.1	0.3	1.0	2.9	7.9	19.4	28.2	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0	
21	M	0.1	0.1	0.3	1.0	2.8	7.7	19.6	28.8	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0	
22	P	0.1	0.1	0.3	0.9	2.7	7.5	19.7	29.3	72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.9	
23	R	0.1	0.1	0.3	0.9	2.6	7.3	19.6	29.8	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.9	
24	E	0.1	0.1	0.3	0.9	2.5	7.1	19.4	30.2	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.8	
25	T	0.1	0.1	0.3	0.8	2.4	6.9	18.9	30.6	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.8	
26	E	0.1	0.1	0.3	0.8	2.3	6.7	18.3	30.8	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.8	
27	M	0.1	0.1	0.3	0.8	2.3	6.5	17.9	30.8	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.8	
28	P	0.1	0.1	0.3	0.7	2.2	6.3	17.4	30.6	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	
29	R	0.1	0.1	0.3	0.7	2.1	6.1	17.0	30.0	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	0.7	2.0	6.0	16.7	29.1	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.0	
31	T	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.4	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	0.7	1.9	5.6	16.0	27.8	82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3	
33	M	0.1	0.1	0.3	0.6	1.8	5.4	15.6	27.2	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4	
34	P	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5	
35	R	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.1	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6	
36	E	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.6	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	1.6	4.8	14.0	25.1	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	1.6	4.7	13.6	24.5	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0	
39	M	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.9	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1	
40	P	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3	90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3	
41	R	0.1	0.1	0.4	0.6	1.5	4.2	12.6	22.7	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4	
42	E	0.1	0.1	0.4	0.6	1.5	4.1	12.2	22.2	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	1.4	4.0	11.9	21.6	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6	
44	E	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.1	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8	
45	M	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.1	
46	P	0.1	0.2	0.3	0.6	1.4	3.6	10.9	20.0	96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.2	
47	R	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.6	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.5	
48	E	0.1	0.2	0.3	0.6	1.4	3.5	10.4	19.0	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.6	
49	T	0.1	0.2	0.3	0.7	1.4	3.4	10.1	18.5	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	1.4	3.3	9.8	18.0	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 60 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	1.4	3.7	6.0	8.4	10.6	51	0.1	0.2	0.3	0.7	1.3	3.3	9.3	17.3	
2	0.1	0.2	0.7	1.8	3.8	6.3	9.0	11.2	52	0.1	0.2	0.3	0.7	1.4	3.2	9.1	16.9	
3	0.1	0.2	0.7	1.8	3.9	6.7	9.6	12.0	53	0.1	0.2	0.3	0.7	1.4	3.2	8.8	16.5	
4	0.1	0.2	0.6	1.7	4.0	7.1	10.3	12.7	54	0.1	0.2	0.3	0.7	1.4	3.2	8.6	16.1	
5	0.1	0.2	0.6	1.7	4.0	7.4	11.0	13.4	55	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.6	
6	0.1	0.2	0.6	1.6	4.1	7.7	11.6	14.4	56	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.2	
7	0.1	0.2	0.5	1.6	4.1	7.9	12.5	15.4	57	0.1	0.2	0.4	0.7	1.4	3.1	8.1	14.8	
8	0.1	0.2	0.5	1.5	4.1	8.1	13.3	16.4	58	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.4	
9	0.1	0.2	0.5	1.5	4.0	8.3	14.1	17.5	59	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.1	
10	0.1	0.2	0.5	1.4	3.8	8.5	14.9	18.6	60	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.8	
11	0.1	0.2	0.5	1.4	3.7	8.6	15.5	19.7	61	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.5	
12	0.1	0.2	0.5	1.3	3.6	8.8	16.2	20.6	62	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.2	
13	0.1	0.1	0.4	1.3	3.5	8.9	16.8	22.0	63	0.1	0.2	0.4	0.8	1.5	3.1	7.4	13.0	
14	0.1	0.1	0.4	1.2	3.4	8.9	17.3	23.2	64	0.1	0.2	0.4	0.8	1.5	3.2	7.4	12.8	
15	0.1	0.1	0.4	1.2	3.3	8.9	17.8	24.2	65	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.6	
16	0.1	0.1	0.4	1.1	3.2	8.7	18.2	25.2	66	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.4	
17	0.1	0.1	0.4	1.1	3.1	8.5	18.6	26.1	67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.2	
18	0.1	0.1	0.4	1.1	3.0	8.2	18.9	26.9	68	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.1	
19	0.1	0.1	0.3	1.0	2.9	8.0	19.2	27.7	69	0.1	0.2	0.4	0.8	1.6	3.4	7.2	12.0	
20	0.1	0.1	0.3	1.0	2.8	7.8	19.4	28.3	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0	
21	0.1	0.1	0.3	0.9	2.7	7.6	19.6	28.8	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	7.4	19.6	29.4	72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.9	
23	0.1	0.1	0.3	0.9	2.5	7.2	19.5	29.8	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.8	
24	0.1	0.1	0.3	0.8	2.4	6.8	18.6	30.6	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.8	
25	0.1	0.1	0.3	0.8	2.4	6.8	18.6	30.6	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	6.6	18.1	30.7	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7	
27	0.1	0.1	0.3	0.8	2.2	6.4	17.6	30.6	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	2.1	6.2	17.2	30.3	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	
29	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9	
30	0.1	0.1	0.3	0.7	2.0	5.9	16.5	28.8	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	1.9	5.7	16.2	28.1	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3	
32	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.5	82	0.1	0.2	0.5	0.9	1.9	3.8	8.1	12.4	
33	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.9	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	1.7	5.2	15.0	26.3	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	5.0	14.6	25.9	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	4.9	14.2	25.3	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	1.6	4.7	13.8	24.8	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	4.6	13.4	24.2	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	13.1	23.6	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	4.3	12.7	23.0	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	1.5	4.2	12.4	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	1.4	4.0	12.0	21.9	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	1.4	3.9	11.7	21.3	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	1.4	3.8	11.3	20.8	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	1.4	3.7	11.0	20.2	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	3.6	10.8	19.6	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	1.4	3.5	10.5	19.3	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	1.4	3.4	10.2	18.7	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	1.3	3.4	9.9	18.2	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	3.3	9.6	17.7	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 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	4.0	8.2	13.5	16.6	19.6	58	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.2
9	0.1	0.2	0.5	3.9	8.4	14.2	17.7	21.1	59	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.9
10	0.1	0.2	0.5	3.8	8.5	15.0	18.9	22.1	60	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.6
11	0.1	0.2	0.5	3.7	8.7	15.7	20.0	23.4	61	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.3
12	0.1	0.2	0.4	3.6	8.8	16.3	21.1	24.5	62	0.1	0.2	0.4	0.7	1.5	3.1	7.4	13.1
13	0.1	0.1	0.4	3.5	8.9	16.9	22.1	25.4	63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.8
14	0.1	0.1	0.4	3.4	8.9	17.4	23.4	26.3	64	0.1	0.2	0.4	0.8	1.5	3.2	7.3	12.6
15	0.1	0.1	0.4	3.3	8.8	17.9	24.5	27.1	65	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.5
16	0.1	0.1	0.4	3.2	8.6	18.2	25.4	27.8	66	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.3
17	0.1	0.1	0.4	3.1	8.3	18.6	26.3	28.4	67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.0
18	0.1	0.1	0.4	3.0	8.1	18.9	27.1	28.9	68	0.1	0.2	0.4	0.8	1.6	3.4	7.2	11.9
19	0.1	0.1	0.3	2.9	7.9	19.2	27.8	29.4	69	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
20	0.1	0.1	0.3	2.8	7.7	19.4	28.4	30.2	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
21	0.1	0.1	0.3	2.7	7.5	19.6	28.9	30.6	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
22	0.1	0.1	0.3	2.6	7.3	19.5	29.4	30.7	72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.8
23	0.1	0.1	0.3	2.5	7.1	19.3	29.9	30.7	73	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.7
24	0.1	0.1	0.3	2.4	6.9	18.9	30.2	30.6	74	0.1	0.2	0.4	0.9	1.7	3.5	7.2	11.7
25	0.1	0.1	0.3	2.3	6.7	18.3	30.5	30.6	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.7
26	0.1	0.1	0.3	2.3	6.5	17.9	30.6	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	2.2	6.3	17.4	30.4	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	2.1	6.2	17.0	30.0	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	2.0	6.0	16.7	29.2	29.2	79	0.1	0.2	0.5	0.9	1.9	3.8	7.9	11.9
30	0.1	0.1	0.3	2.0	5.8	16.4	28.4	28.4	80	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.4
31	0.1	0.1	0.3	1.9	5.6	16.0	27.8	27.8	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.4
32	0.1	0.1	0.3	1.8	5.5	15.6	27.1	27.1	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
33	0.1	0.1	0.3	1.8	5.3	15.2	26.6	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	1.7	5.1	14.8	26.1	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	1.7	4.9	14.4	25.6	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	1.6	4.8	14.0	25.0	25.0	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6
37	0.1	0.1	0.3	1.6	4.7	13.6	24.4	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	1.6	4.5	13.2	23.9	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	1.5	4.4	12.9	23.3	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	1.5	4.2	12.5	22.7	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	1.4	4.1	12.2	22.1	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	1.4	4.0	11.9	21.5	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	1.4	3.8	11.5	21.0	21.0	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	1.4	3.7	11.2	20.5	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	1.4	3.6	10.9	20.0	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	1.4	3.5	10.6	19.5	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	1.3	3.5	10.3	19.0	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	1.3	3.4	10.0	18.4	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	1.3	3.3	9.7	17.9	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	1.3	3.3	9.5	17.5	17.5	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.5

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	8.4	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	8.2	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	8.0	14.7
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	7.9	14.4
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	1.5	3.0	7.8	14.0
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	7.6	13.7
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	7.5	13.4
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	3.1	7.4	13.2
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	7.3	12.9
12	0.1	0.2	0.4	1.3	3.5	8.8	16.5	21.4	62	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.7
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	3.2	7.3	12.5
14	0.1	0.1	0.4	1.2	3.3	8.7	17.5	23.7	64	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.3
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	12.2
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	3.3	7.2	12.0
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	7.1	11.9
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	3.4	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	1.7	3.4	7.2	11.8
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	3.5	7.2	11.7
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	3.5	7.3	11.7
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	7.3	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	0.9	1.7	3.5	7.4	11.6
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	3.6	7.5	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	1.8	3.6	7.6	11.4
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	11.7
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	3.7	7.8	11.9
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	3.8	7.9	12.1
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	3.8	8.0	12.3
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	1.9	3.9	8.1	12.4
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	3.9	8.2	12.5
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	4.0	8.3	12.6
33	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.3	83	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
34	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.8	84	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
35	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3	85	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
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	2.0	4.0	8.5	13.1
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	8.5	13.4
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	4.1	8.6	13.5
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	8.6	13.7
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	4.2	8.7	13.3
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	2.1	4.2	8.8	13.4
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	4.3	8.9	13.5
43	0.1	0.2	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	9.0	13.7
44	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2	94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
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	2.2	4.4	9.1	13.9
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	9.2	14.1
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	4.5	9.3	14.2
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	9.4	14.4
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	4.6	9.5	14.5
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	9.6	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	1.9	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	3.9	8.2	12.5
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	8.3	12.6
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	8.4	12.9
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	4.1	8.5	13.0
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	8.6	13.1
37	0.1	0.1	0.3	1.5	1.5	4.5	13.2	23.8	87	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3
38	0.1	0.1	0.3	1.5	1.5	4.4	12.9	23.3	88	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
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	2.1	4.3	8.9	13.5
40	0.1	0.1	0.3	1.4	1.4	4.1	12.2	22.1	90	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
41	0.1	0.1	0.3	1.4	1.4	4.0	11.9	21.5	91	0.1	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.2	0.3	1.3	1.3	3.3	9.7	17.9	98	0.1	0.2	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	0.2	0.5	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	0.2	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 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	4.1	8.5	13.0	87	0.1	0.2	0.5	1.0	2.0	4.1	8.5
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	2.1	4.2	8.6	13.2	89	0.1	0.2	0.5	1.0	2.1	4.2	8.6
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	2.1	4.2	8.6	13.3	90	0.1	0.2	0.5	1.0	2.1	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	4.3	8.7	13.4	91	0.1	0.2	0.5	1.0	2.1	4.3	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	13.6	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	13.7	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	13.8	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	20.6	37.7	67.1	118.1
2	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
3	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
4	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
5	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
6	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
7	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
8	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
9	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
10	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
11	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
12	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
13	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
14	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
15	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
16	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
17	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
18	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
19	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
20	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
21	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
22	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
23	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
24	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
25	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
26	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
27	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
28	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
29	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
30	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
31	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
32	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
33	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
34	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
35	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
36	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
37	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
38	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
39	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
40	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
41	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
42	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
43	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
44	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
45	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
46	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
47	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
48	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
49	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1
50	0.1	0.2	0.3	0.7	1.4	3.1	6.4	11.3	20.6	37.7	67.1	118.1

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	16000	32000	63	125	250	500	1000	2000	4000	8000	16000	32000
1	0.1	0.2	0.7	1.5	3.8	6.5	9.3	11.5	51	0.1	0.2	0.3	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	3.1	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	3.1	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	3.0	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	3.0	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	3.0	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	3.0	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	3.0	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	3.0	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	3.0	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	3.1	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	3.1	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	3.1	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	3.2	7.1	12.0			
15	0.1	0.1	0.4	1.1	3.1	8.3	18.2	25.5	65	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.8			
16	0.1	0.1	0.4	1.0	3.0	8.1	18.5	26.3	66	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7			
17	0.1	0.1	0.3	1.0	2.9	7.8	19.8	27.0	67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.7			
18	0.1	0.1	0.3	1.0	2.8	7.6	19.0	27.7	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.7			
19	0.1	0.1	0.3	0.9	2.7	7.4	19.2	28.2	69	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6			
20	0.1	0.1	0.3	0.9	2.6	7.1	19.1	29.2	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.5			
21	0.1	0.1	0.3	0.9	2.5	7.1	19.1	29.2	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.5			
22	0.1	0.1	0.3	0.8	2.4	6.9	19.8	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	6.7	18.2	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	0.9	2.3	6.5	17.7	30.0	74	0.1	0.2	0.4	0.8	1.7	3.5	7.4	11.4			
25	0.1	0.1	0.3	0.7	2.2	6.3	17.3	30.0	75	0.1	0.2	0.4	0.8	1.7	3.6	7.5	11.5			
26	0.1	0.1	0.3	0.7	2.1	6.1	16.9	29.7	76	0.1	0.2	0.4	0.8	1.7	3.6	7.6	11.6			
27	0.1	0.1	0.3	0.7	2.0	5.9	16.5	29.0	77	0.1	0.2	0.4	0.8	1.7	3.6	7.6	11.7			
28	0.1	0.1	0.3	0.7	2.0	5.7	16.2	28.1	78	0.1	0.2	0.4	0.8	1.8	3.7	7.7	11.8			
29	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.5	79	0.1	0.2	0.4	0.8	1.8	3.7	7.8	11.9			
30	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.8	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1			
31	0.1	0.1	0.3	0.6	1.8	5.2	15.0	26.3	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	5.0	14.6	25.7	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	1.6	4.9	14.2	25.3	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	1.6	4.7	13.8	24.7	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	1.5	4.6	13.5	24.1	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	1.5	4.5	13.1	23.6	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	4.3	12.7	23.0	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	4.2	12.4	22.4	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0			
39	0.1	0.1	0.3	0.6	1.4	4.0	12.1	21.8	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	3.9	11.7	21.2	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	3.8	11.3	20.7	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	3.7	11.0	20.2	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	3.6	10.7	19.7	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	3.5	10.4	19.2	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	3.4	10.2	19.7	95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9			
46	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.1	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	3.3	9.6	17.6	97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2			
48	0.1	0.1	0.3	0.5	1.3	3.2	9.3	17.2	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	1.3	3.2	9.0	16.8	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	1.3	3.1	8.8	16.4	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 75 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	0.4	1.7	3.8	6.6	9.4	11.7	T	51	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.7	E	61	0.1	0.2	0.4	0.7	1.5	3.1	7.1
2	0.1	0.2	0.6	1.7	3.9	6.9	10.1	12.4	M	52	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.3	A	62	0.1	0.2	0.4	0.7	1.5	3.1	7.1
3	0.1	0.2	0.6	1.6	3.9	7.2	10.8	13.2	P	53	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.9	P	63	0.1	0.2	0.4	0.8	1.5	3.1	7.1
4	0.1	0.2	0.6	1.6	4.0	7.5	11.5	14.1	E	54	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1	R	64	0.1	0.2	0.4	0.8	1.5	3.2	7.0
5	0.1	0.2	0.6	1.5	4.0	7.7	12.2	15.0	P	55	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.8	E	65	0.1	0.2	0.4	0.8	1.5	3.2	7.0
6	0.1	0.2	0.5	1.5	4.0	8.0	13.0	16.0	R	56	0.1	0.2	0.4	0.7	1.4	3.0	7.5	13.5	A	66	0.1	0.2	0.4	0.8	1.6	3.2	7.0
7	0.1	0.2	0.5	1.4	3.9	8.1	13.6	17.1	T	57	0.1	0.2	0.4	0.7	1.4	3.0	7.4	13.2	E	67	0.1	0.2	0.4	0.8	1.6	3.2	7.0
8	0.1	0.2	0.5	1.4	3.7	8.3	14.5	18.2	M	58	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.2	A	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0
9	0.1	0.2	0.5	1.3	3.6	8.5	15.2	19.3	P	59	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.9	E	69	0.1	0.2	0.4	0.8	1.6	3.3	7.0
10	0.1	0.2	0.4	1.3	3.5	8.6	15.9	20.4	E	60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.6	A	70	0.1	0.2	0.4	0.8	1.6	3.3	7.0
11	0.1	0.1	0.4	1.2	3.4	8.7	16.5	21.6	M	61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.1	P	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2
12	0.1	0.1	0.4	1.2	3.3	8.7	17.0	22.8	E	62	0.1	0.2	0.4	0.8	1.5	3.1	7.1	12.1	R	72	0.1	0.2	0.4	0.8	1.7	3.4	7.2
13	0.1	0.1	0.4	1.2	3.2	8.7	17.4	23.8	P	63	0.1	0.2	0.4	0.8	1.5	3.1	7.1	12.1	E	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3
14	0.1	0.1	0.4	1.1	3.1	8.5	17.8	24.8	P	64	0.1	0.2	0.4	0.8	1.5	3.2	7.0	11.9	A	74	0.1	0.2	0.4	0.8	1.7	3.5	7.3
15	0.1	0.1	0.4	1.1	3.0	8.2	18.2	25.6	E	65	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7	P	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5
16	0.1	0.1	0.4	1.0	2.9	8.0	18.5	26.4	R	66	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7	E	76	0.1	0.2	0.4	0.9	1.7	3.6	7.5
17	0.1	0.1	0.3	1.0	2.8	7.8	18.8	27.1	T	67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6	A	77	0.1	0.2	0.4	0.9	1.7	3.6	7.5
18	0.1	0.1	0.3	0.9	2.7	7.5	19.0	27.7	M	68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6	P	78	0.1	0.2	0.4	0.9	1.7	3.7	7.7
19	0.1	0.1	0.3	0.9	2.7	7.4	19.2	28.3	E	69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.5	R	79	0.1	0.2	0.4	0.9	1.7	3.7	7.7
20	0.1	0.1	0.3	0.9	2.6	7.2	19.4	28.8	P	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.4	E	80	0.1	0.2	0.4	0.9	1.7	3.8	7.9
21	0.1	0.1	0.3	0.8	2.5	7.0	19.6	29.2	M	71	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4	A	81	0.1	0.2	0.4	0.9	1.7	3.8	7.9
22	0.1	0.1	0.3	0.8	2.4	6.8	18.6	29.6	E	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4	P	82	0.1	0.2	0.4	0.9	1.7	3.8	7.9
23	0.1	0.1	0.3	0.8	2.3	6.6	18.0	29.9	R	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4	T	83	0.1	0.2	0.4	0.9	1.7	3.8	7.9
24	0.1	0.1	0.3	0.8	2.2	6.4	17.5	30.0	M	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.5	E	84	0.1	0.2	0.4	0.9	1.7	3.8	7.9
25	0.1	0.1	0.3	0.7	2.1	6.2	17.1	29.8	P	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5	A	85	0.1	0.2	0.4	0.9	1.7	3.9	8.2
26	0.1	0.1	0.3	0.7	2.1	6.0	16.7	29.4	R	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6	P	86	0.1	0.2	0.4	0.9	1.7	3.9	8.2
27	0.1	0.1	0.3	0.7	2.0	5.8	16.3	28.6	E	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7	A	87	0.1	0.2	0.4	0.9	1.7	3.9	8.2
28	0.1	0.1	0.3	0.7	1.9	5.7	16.0	27.8	T	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	P	88	0.1	0.2	0.4	0.9	1.7	3.9	8.2
29	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.2	M	79	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	E	89	0.1	0.2	0.4	0.9	1.7	3.9	8.2
30	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6	R	80	0.1	0.2	0.4	0.9	1.9	3.8	7.9	12.1	A	90	0.1	0.2	0.4	0.9	1.7	3.9	8.2
31	0.1	0.1	0.3	0.6	1.7	5.2	14.8	26.0	E	81	0.1	0.2	0.4	0.9	1.9	3.8	8.0	12.3	P	91	0.1	0.2	0.4	0.9	1.7	3.9	8.2
32	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.5	M	82	0.1	0.2	0.4	0.9	1.9	3.8	8.0	12.4	E	92	0.1	0.2	0.4	0.9	1.7	3.9	8.2
33	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.0	R	83	0.1	0.2	0.4	0.9	1.9	3.9	8.2	12.5	A	93	0.1	0.2	0.4	0.9	1.7	3.9	8.2
34	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.4	T	84	0.1	0.2	0.4	0.9	1.9	4.0	8.3	12.6	P	94	0.1	0.2	0.4	0.9	1.7	3.9	8.2
35	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.9	E	85	0.1	0.2	0.4	0.9	1.9	4.0	8.3	12.6	A	95	0.1	0.2	0.4	0.9	1.7	3.9	8.2
36	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3	R	86	0.1	0.2	0.4	0.9	2.0	4.0	8.3	12.8	P	96	0.1	0.2	0.4	0.9	1.7	3.9	8.2
37	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7	M	87	0.1	0.2	0.4	0.9	2.0	4.0	8.4	12.9	E	97	0.1	0.2	0.4	0.9	1.7	3.9	8.2
38	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1	R	88	0.1	0.2	0.4	0.9	2.0	4.1	8.5	13.0	A	98	0.1	0.2	0.4	0.9	1.7	3.9	8.2
39	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5	T	89	0.1	0.2	0.4	0.9	2.0	4.1	8.5	13.1	P	99	0.1	0.2	0.4	0.9	1.7	3.9	8.2
40	0.1	0.1	0.3	0.6	1.4	3.9	11.5	21.0	E	90	0.1	0.2	0.4	0.9	2.0	4.1	8.6	13.1	A	100	0.1	0.2	0.4	0.9	1.7	3.9	8.2
41	0.1	0.1	0.3	0.6	1.4	3.7	11.2	20.4	M	91	0.1	0.2	0.4	0.9	2.0	4.2	8.7	13.3	P								
42	0.1	0.1	0.3	0.6	1.4	3.6	10.9	19.9	R	92	0.1	0.2	0.4	0.9	2.0	4.2	8.7	13.3	E								
43	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	T	93	0.1	0.2	0.4	0.9	2.1	4.3	8.9	13.5	A								
44	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.9	E	94	0.1	0.2	0.4	0.9	2.1	4.3	9.0	13.7	P								
45	0.1	0.1	0.3	0.6	1.3	3.4	10.0	18.4	M	95	0.1	0.2	0.4	0.9	2.1	4.3	9.0	13.7	R								
46	0.1	0.1	0.3	0.6	1.3	3.3	9.7	17.9	E	96	0.1	0.2	0.4	0.9	2.1	4.4	9.1	13.9	A								
47	0.1	0.1	0.3	0.6	1.3	3.2	9.4	17.4	T	97	0.1	0.2	0.4	0.9	2.1	4.4	9.2	14.1	P								
48	0.1	0.1	0.3	0.6	1.3	3.2	9.1	17.0	E	98	0.1	0.2	0.4	0.9	2.1	4.5	9.3	14.4	A								
49	0.1	0.1	0.3	0.6	1.3	3.1	8.9	16.6	M	99	0.1	0.2	0.4	0.9	2.1	4.5	9.4	14.5	P								
50	0.1	0.2	0.3	0.7	1.3	3.1	8.7	16.2	E	100	0.1	0.2	0.4	0.9	2.2	4.6	9.6	14.6	A								

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											
	63	125	250	500	1000	2000	4000	8000	16000								
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	1.6	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	1.8	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	1.8	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	8.0	12.3
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	8.1	12.4
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	8.2	12.5
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	8.3	12.6
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	14.4
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					
	63	125	250	500	1000	2000	4000	8000	16000	32000	64000	128000
1	0.1	0.2	0.6	1.7	3.8	6.8	9.8	12.1	51	0.1	0.2	0.3
2	0.1	0.2	0.6	1.6	3.9	7.1	10.5	12.9	52	0.1	0.2	0.3
3	0.1	0.2	0.6	1.6	4.0	7.4	11.2	13.8	53	0.1	0.2	0.3
4	0.1	0.2	0.6	1.5	4.0	7.6	12.0	14.7	54	0.1	0.2	0.3
5	0.1	0.2	0.5	1.5	3.9	7.9	12.7	15.7	55	0.1	0.2	0.3
6	0.1	0.2	0.5	1.4	3.9	8.0	13.5	16.7	56	0.1	0.2	0.3
7	0.1	0.2	0.5	1.4	3.7	8.2	14.3	17.9	57	0.1	0.2	0.4
8	0.1	0.2	0.5	1.3	3.6	8.4	15.0	19.0	58	0.1	0.2	0.4
9	0.1	0.2	0.4	1.3	3.5	8.5	15.6	20.1	59	0.1	0.2	0.4
10	0.1	0.2	0.4	1.2	3.4	8.6	16.2	21.2	60	0.1	0.2	0.4
11	0.1	0.1	0.4	1.2	3.3	8.6	16.8	22.4	61	0.1	0.2	0.4
12	0.1	0.1	0.4	1.1	3.2	8.6	17.2	23.4	62	0.1	0.2	0.4
13	0.1	0.1	0.4	1.1	3.1	8.5	17.6	24.4	63	0.1	0.2	0.4
14	0.1	0.1	0.4	1.1	3.0	8.2	18.0	25.3	64	0.1	0.2	0.4
15	0.1	0.1	0.3	1.0	2.9	7.9	18.3	26.1	65	0.1	0.2	0.4
16	0.1	0.1	0.3	1.0	2.8	7.7	18.6	26.8	66	0.1	0.2	0.4
17	0.1	0.1	0.3	0.9	2.6	7.3	19.0	28.0	67	0.1	0.2	0.4
18	0.1	0.1	0.3	0.9	2.5	7.2	19.0	28.5	68	0.1	0.2	0.4
19	0.1	0.1	0.3	0.8	2.5	7.0	18.8	28.9	69	0.1	0.2	0.4
20	0.1	0.1	0.3	0.8	2.4	6.8	18.5	29.3	70	0.1	0.2	0.4
21	0.1	0.1	0.3	0.8	2.3	6.6	17.9	29.6	71	0.1	0.2	0.4
22	0.1	0.1	0.3	0.7	2.2	6.4	17.4	29.7	72	0.1	0.2	0.4
23	0.1	0.1	0.3	0.7	2.1	6.2	17.0	29.9	73	0.1	0.2	0.4
24	0.1	0.1	0.3	0.7	2.1	6.0	16.6	29.2	74	0.1	0.2	0.4
25	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.4	75	0.1	0.2	0.4
26	0.1	0.1	0.3	0.7	1.9	5.6	15.9	27.6	76	0.1	0.2	0.4
27	0.1	0.1	0.3	0.6	1.8	5.4	15.5	26.9	77	0.1	0.2	0.4
28	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8	78	0.1	0.2	0.4
29	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8	79	0.1	0.2	0.4
30	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8	80	0.1	0.2	0.4
31	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8	81	0.1	0.2	0.4
32	0.1	0.1	0.3	0.6	1.6	4.9	14.3	25.3	82	0.1	0.2	0.4
33	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2	83	0.1	0.2	0.4
34	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.6	84	0.1	0.2	0.4
35	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.0	85	0.1	0.2	0.4
36	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.5	86	0.1	0.2	0.4
37	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9	87	0.1	0.2	0.4
38	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.3	88	0.1	0.2	0.4
39	0.1	0.1	0.3	0.6	1.3	3.8	11.4	20.7	89	0.1	0.2	0.4
40	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.2	90	0.1	0.2	0.4
41	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.7	91	0.1	0.2	0.4
42	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.2	92	0.1	0.2	0.4
43	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7	93	0.1	0.2	0.4
44	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.2	94	0.1	0.2	0.4
45	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6	95	0.1	0.2	0.4
46	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2	96	0.1	0.2	0.4
47	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.7	97	0.1	0.2	0.4
48	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4	98	0.1	0.2	0.4
49	0.1	0.2	0.3	0.7	1.3	3.0	8.5	15.9	99	0.1	0.2	0.4
50	0.1	0.2	0.3	0.7	1.3	3.0	8.3	15.5	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 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	14.9
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	10.1	18.5	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	1.3	3.3	9.4	17.9	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	1.3	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	14.4
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	9.6	14.6
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	F	61	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			0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
5	E	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	E	62	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
6	R	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
7	A	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	A	63	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
8	H	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
9	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	64	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
10	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
11	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	F	65	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
12	M	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
13	E	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	E	66	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
14	R	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
15	A	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	A	67	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
16	H	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
17	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	68	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
18	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
19	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	F	69	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
20	M	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
21	E	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	E	70	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
22	R	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
23	A	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	A	71	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
24	H	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
25	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	72	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
26	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
27	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	F	73	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
28	M	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	E	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	E	74	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
30	R	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	A	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	A	75	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
32	H	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	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	76	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
34	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
35	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	F	77	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
36	M	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	E	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	E	78	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
38	R	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	A	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	A	79	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
40	H	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	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	80	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
42	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
43	F	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	F	81	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
44	M	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	E	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	E	82	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
46	R	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	A	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	A	83	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
48	H	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	T	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7	T	84	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
50	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

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	29.9	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	30.1	75	0.1	0.2	0.4	0.7	1.7	3.6	7.5	11.5
26	0.1	0.1	0.3	0.6	1.7	10.2	20.6	30.3	76	0.1	0.2	0.4	0.7	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.6	1.6	10.3	20.8	30.5	77	0.1	0.2	0.4	0.7	1.8	3.6	7.6	11.7
28	0.1	0.1	0.3	0.6	1.5	10.4	21.0	30.7	78	0.1	0.2	0.4	0.7	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.6	1.4	10.5	21.2	30.9	79	0.1	0.2	0.4	0.7	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.6	1.3	10.6	21.4	31.1	80	0.1	0.2	0.5	0.7	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.6	1.2	10.7	21.6	31.3	81	0.1	0.2	0.5	0.7	1.9	3.8	8.0	12.3
32	0.1	0.1	0.3	0.6	1.1	10.8	21.8	31.5	82	0.1	0.2	0.5	0.7	1.9	3.9	8.1	12.4
33	0.1	0.1	0.3	0.6	1.0	10.9	22.0	31.7	83	0.1	0.2	0.5	0.7	1.9	3.9	8.2	12.5
34	0.1	0.1	0.3	0.6	0.9	11.0	22.2	31.9	84	0.1	0.2	0.5	0.7	1.9	4.0	8.3	12.6
35	0.1	0.1	0.3	0.6	0.8	11.1	22.4	32.1	85	0.1	0.2	0.5	1.0	1.9	4.0	8.4	12.9
36	0.1	0.1	0.3	0.6	0.7	11.2	22.6	32.3	86	0.1	0.2	0.5	1.0	2.0	4.0	8.5	13.0
37	0.1	0.1	0.3	0.6	0.6	11.3	22.8	32.5	87	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
38	0.1	0.1	0.3	0.6	0.5	11.4	23.0	32.7	88	0.1	0.2	0.5	1.0	2.0	4.1	8.7	13.3
39	0.1	0.1	0.3	0.6	0.4	11.5	23.2	32.9	89	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
40	0.1	0.1	0.3	0.6	0.3	11.6	23.4	33.1	90	0.1	0.2	0.5	1.0	2.1	4.2	8.9	13.5
41	0.1	0.1	0.3	0.6	0.2	11.7	23.6	33.3	91	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
42	0.1	0.1	0.3	0.6	0.1	11.8	23.8	33.5	92	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
43	0.1	0.1	0.3	0.6	0.0	11.9	24.0	33.7	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.1	0.3	0.6	0.0	12.0	24.2	33.9	94	0.1	0.2	0.5	1.1	2.1	4.4	9.1	13.9
45	0.1	0.1	0.3	0.6	0.0	12.1	24.4	34.1	95	0.1	0.2	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.1	0.3	0.6	0.0	12.2	24.6	34.3	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.1	0.3	0.6	0.0	12.3	24.8	34.5	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.1	0.3	0.6	0.0	12.4	25.0	34.7	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.1	0.3	0.6	0.0	12.5	25.2	34.9	99	0.1	0.2	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	8.0	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	29.0	0.1	0.2
17	0.1	0.1	0.3	0.9	2.6	7.2	18.8	29.3	0.1	0.2
18	0.1	0.1	0.3	0.9	2.5	7.1	18.8	29.4	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	0.1	0.2	0.3	0.7	1.4	2.9	7.7	14.1
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	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7
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	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
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	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1
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	R	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.8
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	A	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.5
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	U	0.1	0.2	0.4	0.7	1.4	3.0	7.0	12.3
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	1.5	3.0	6.9	12.1	E	0.1	0.2	0.4	0.7	1.5	3.0	6.9	12.1
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	T	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.9
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	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.7
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	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.5
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	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.4
13	0.1	0.1	0.3	1.0	3.0	8.0	17.9	25.2	63	0.1	0.2	0.4	0.8	1.5	3.1	6.8	11.3	R	0.1	0.2	0.4	0.8	1.5	3.1	6.8	11.3
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	11.3	A	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.3
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	1.6	3.2	6.8	11.2	U	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.2
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	1.6	3.2	6.8	11.2	E	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.2
17	0.1	0.1	0.3	0.9	2.6	7.1	18.7	28.3	67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1	T	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	1.6	3.4	7.0	11.1	E	0.1	0.2	0.4	0.8	1.6	3.4	7.0	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	1.7	3.4	7.1	11.1	M	0.1	0.2	0.4	0.8	1.7	3.4	7.1	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	1.7	3.4	7.2	11.1	P	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
21	0.1	0.1	0.3	0.8	2.2	6.4	17.4	29.3	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1	R	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	2.1	6.2	17.0	29.3	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1	A	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	2.1	6.0	16.5	29.0	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2	U	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
24	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.4	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4	E	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	1.9	5.6	15.8	27.6	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5	M	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	5.5	15.5	26.4	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6	P	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	1.8	5.3	15.1	26.2	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7	R	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	5.1	14.7	25.6	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	A	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	1.7	4.9	14.3	25.1	79	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.9	U	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.9
30	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.6	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1	E	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	4.6	13.5	24.1	81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3	M	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	1.5	4.5	13.1	23.5	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4	P	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	1.5	4.3	12.7	22.9	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5	R	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	1.4	4.2	12.4	22.4	84	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6	A	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
35	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.8	85	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6	U	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	3.9	11.7	21.2	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9	E	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	1.3	3.8	11.4	20.6	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9	M	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	3.7	11.0	20.1	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0	P	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	3.6	10.7	19.6	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1	R	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	3.5	10.4	19.1	90	0.1	0.3	0.5	1.0	2.1	4.2	8.7	13.3	A	0.1	0.3	0.5	1.0	2.1	4.2	8.7	13.3
41	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4	U	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	9.8	18.1	92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5	E	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	3.2	9.5	17.5	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7	M	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	3.2	9.2	17.0	94	0.1	0.3	0.5	1.1	2.1	4.3	9.1	13.9	P	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	3.1	9.0	16.6	95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1	R	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	3.0	8.7	16.2	96	0.1	0.3	0.5	1.1	2.2	4.4	9.3	14.2	A	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	3.0	8.5	15.8	97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4	U	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	3.0	8.2	15.4	98	0.1	0.3	0.5	1.1	2.2	4.5	9.5	14.5	E	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	8.0	14.9	99	0.1	0.3	0.6	1.1	2.2	4.6	9.6	14.6	M	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	2.9	7.8	14.5	100	0.1	0.3	0.6	1.1	2.2	4.6	9.6	14.6	P	0.1	0.3	0.6	1.1	2.2	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 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				
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	0.8	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	1.8	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, M2							
		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	P	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	R	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	E	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	A	0.1	0.1	0.4	1.2	3.2	8.5	16.4	21.9	59	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.4
10	T	0.1	0.1	0.4	1.1	3.1	8.6	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	11.2
12	P	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	R	0.1	0.1	0.3	1.0	2.9	7.7	17.9	25.6	63	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.1
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	0.8	1.5	3.2	6.7	11.0
15	A	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	T	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	H	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	P	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	R	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	E	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	A	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	T	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	P	0.1	0.1	0.3	0.7	1.9	5.6	15.7	27.5	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
25	R	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	A	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	T	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	H	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	P	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	R	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	E	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	3.8	8.1	12.4
33	A	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	T	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	1.9	4.0	8.3	12.6
36	P	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	8.3	12.8
37	R	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	4.0	8.4	12.9
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	8.5	13.0
39	A	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	2.0	4.1	8.6	13.1
40	T	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	2.0	4.2	8.7	13.3
41	H	0.1	0.1	0.3	0.6	1.3	3.2	9.8	17.9	91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
42	P	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	8.9	13.5
43	R	0.1	0.1	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	E	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	A	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	T	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	P	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	R	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	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	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	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	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	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	56	0.1	0.2	0.3	0.7	1.4	3.0	6.9	12.0	
7	0.1	0.1	0.4	1.2	3.4	8.3	15.4	19.4	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	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	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	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	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	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	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	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	65	0.1	0.2	0.4	0.8	1.5	3.2	6.7	11.1	
16	0.1	0.1	0.3	0.9	2.5	7.1	18.6	27.5	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0	
17	0.1	0.1	0.3	0.8	2.4	6.9	18.5	28.0	67	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9	
18	0.1	0.1	0.3	0.8	2.4	6.7	18.2	28.4	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	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	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	28.9	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	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	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	74	0.1	0.2	0.4	0.8	1.7	3.5	7.4	11.5	
25	0.1	0.1	0.3	0.6	1.8	5.4	15.3	29.5	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	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	77	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8	
28	0.1	0.1	0.3	0.6	1.6	4.9	14.1	29.4	78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9	
29	0.1	0.1	0.3	0.6	1.6	4.7	13.7	29.3	79	0.1	0.2	0.4	0.9	1.8	3.8	7.9	12.1	
30	0.1	0.1	0.3	0.6	1.5	4.5	13.3	29.7	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2	
31	0.1	0.1	0.3	0.6	1.5	4.4	12.9	29.2	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	28.6	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	28.0	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	1.4	4.0	11.8	28.4	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	28.3	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	3.7	11.2	28.3	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	19.7	87	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.6	
38	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2	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	18.7	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1	
40	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.2	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	3.2	9.6	17.7	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	9.3	17.2	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	16.7	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	3.0	8.8	16.3	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	3.0	8.5	15.9	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	3.0	8.3	15.5	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	2.9	8.1	15.0	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	2.9	7.9	14.6	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	2.9	7.7	14.2	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	2.9	7.5	13.8	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 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	3.5
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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	0.0	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	4.4	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	S	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	F	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	A	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	H	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	I	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	T	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	R	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	A	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	U	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	E	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	S	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	F	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	A	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	M	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	H	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	I	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	T	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	E	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	R	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	S	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	F	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	A	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	M	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	H	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	I	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	T	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.0	85	0.1	0.2	0.5	0.9	1.9
36	E	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	S	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	F	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	A	0.1	0.1	0.3	0.6	1.2	3.1	9.2	16.9	90	0.1	0.2	0.5	1.0	2.1
41	M	0.1	0.1	0.3	0.6	1.2	3.0	8.9	16.4	91	0.1	0.2	0.5	1.0	2.1
42	H	0.1	0.1	0.3	0.6	1.2	2.9	8.6	16.0	92	0.1	0.2	0.5	1.0	2.1
43	I	0.1	0.2	0.3	0.6	1.2	2.9	8.4	15.6	93	0.1	0.2	0.5	1.0	2.1
44	T	0.1	0.2	0.3	0.6	1.3	2.9	8.4	15.6	94	0.1	0.2	0.5	1.1	2.1
45	E	0.1	0.2	0.3	0.6	1.3	2.9	8.4	15.6	95	0.1	0.2	0.5	1.1	2.2
46	R	0.1	0.2	0.3	0.6	1.3	2.9	8.4	15.6	96	0.1	0.2	0.5	1.1	2.2
47	S	0.1	0.2	0.3	0.6	1.3	2.9	8.4	15.6	97	0.1	0.2	0.5	1.1	2.2
48	F	0.1	0.2	0.3	0.6	1.3	2.9	8.4	15.6	98	0.1	0.2	0.5	1.1	2.2
49	A	0.1	0.2	0.3	0.7	1.3	2.8	8.4	15.6	99	0.1	0.2	0.6	1.1	2.2
50	M	0.1	0.2	0.3	0.7	1.3	2.8	8.4	15.6	100	0.1	0.2	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	0.3	0.7	1.4	2.8	7.1	12.7			
2	0.1	0.2	0.5	1.4	3.8	7.6	12.5	15.4	52	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.5			
3	0.1	0.2	0.5	1.4	3.7	7.8	13.2	16.5	53	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.2			
4	0.1	0.2	0.5	1.3	3.6	8.0	14.0	17.6	54	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.9			
5	0.1	0.2	0.4	1.3	3.5	8.1	14.7	18.7	55	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.7			
6	0.1	0.1	0.4	1.2	3.3	8.2	15.3	19.8	56	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.5			
7	0.1	0.1	0.4	1.2	3.2	8.3	15.9	20.9	57	0.1	0.2	0.4	0.7	1.4	3.0	6.7	11.4			
8	0.1	0.1	0.4	1.1	3.2	8.3	16.4	22.0	58	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.2			
9	0.1	0.1	0.4	1.1	3.1	8.3	16.8	23.0	59	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.1			
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			
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			
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	10.9			
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	10.8			
14	0.1	0.1	0.3	0.9	2.6	7.1	18.2	26.7	F 64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.8			
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			
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			
17	0.1	0.1	0.3	0.8	2.3	6.6	17.9	28.1	T 67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7			
18	0.1	0.1	0.3	0.8	2.2	6.4	17.4	28.4	U 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	6.2	16.9	28.6	R 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	6.0	16.4	28.5	F 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	5.8	16.0	28.2	S 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	5.6	15.6	27.5	D 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	5.4	15.3	26.6	O 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	14.9	26.0	E 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	5.1	14.6	25.3	G 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	14.2	24.8	A 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	13.8	24.3	E 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	4.6	13.4	23.8	E 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	13.0	23.2	S 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	4.3	12.6	22.6	F 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	4.2	12.2	22.1	F 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	4.0	11.9	21.5	A 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	3.9	11.5	20.9	H 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	11.2	20.3	R 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	10.8	19.8	E 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	3.5	10.5	19.2	N 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	1.3	3.4	10.2	18.7	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	0.6	1.3	3.3	9.9	18.2	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	0.6	1.2	3.2	9.7	17.7	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	0.6	1.2	3.2	9.4	17.2	T 90	0.1	0.3	0.5	1.0	2.1	4.2	8.7	13.3			
41	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.7	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	8.8	16.2	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	8.5	15.8	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7			
44	0.1	0.2	0.3	0.6	1.3	2.9	8.3	15.5	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	1.3	2.9	8.1	15.0	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	1.3	2.9	7.8	14.6	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	2.9	7.7	14.2	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	2.8	7.5	13.7	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3			
49	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.4	99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.4			
50	0.1	0.2	0.3	0.7	1.3	2.8	7.2	13.1	100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.5			

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	4.0	8.4	12.9
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	8.5	13.0
40	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.0	90	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	3.1	9.0	16.5	91	0.1	0.3	0.5	1.0	2.1	4.2	8.6	13.1
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	4.2	8.7	13.3
43	0.1	0.1	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	8.8	13.4
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	8.9	13.5
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	9.0	13.8
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	9.1	13.9
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	4.4	9.2	14.1
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	9.3	14.2
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	4.5	9.4	14.4
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
T 10	0.1	0.1	0.3	1.0	2.9	7.9	17.2	24.2	E 60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.9
E 11	0.1	0.1	0.3	1.0	2.8	7.6	17.6	25.0	E 61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.9
M 12	0.1	0.1	0.3	0.9	2.7	7.4	17.8	25.7	M 62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.8
P 13	0.1	0.1	0.3	0.9	2.6	7.2	18.1	26.3	P 63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.7
E 14	0.1	0.1	0.3	0.9	2.5	7.0	18.2	26.9	E 64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.7
R 15	0.1	0.1	0.3	0.8	2.4	6.8	18.2	27.4	R 65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
A 16	0.1	0.1	0.3	0.8	2.3	6.7	18.0	27.8	A 66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	10.7
T 17	0.1	0.1	0.3	0.8	2.3	6.5	17.6	28.1	T 67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7
U 18	0.1	0.1	0.3	0.7	2.2	6.3	17.0	28.4	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	2.1	6.1	16.6	28.4	P 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	2.0	5.9	16.1	28.2	E 70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
7 21	0.1	0.1	0.3	0.7	2.0	5.7	15.7	27.7	7 71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
D 22	0.1	0.1	0.3	0.6	1.9	5.5	15.4	26.9	D 72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
E 23	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2	E 73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
G 24	0.1	0.1	0.2	0.6	1.7	5.1	14.7	25.5	G 74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
R 25	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.4	R 75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
E 26	0.1	0.1	0.3	0.6	1.6	4.6	13.5	23.9	E 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	4.5	13.1	23.4	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	1.5	4.3	12.7	22.8	S 78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
F 29	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2	F 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
A 30	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.6	A 80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
M 31	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.1	M 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
H 32	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.5	H 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
R 33	0.1	0.1	0.3	0.6	1.3	3.6	11.0	19.9	R 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
E 34	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4	E 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
M 35	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.8	M 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
H 36	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3	H 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
E 37	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.9	E 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
I 38	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.3	I 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
T 39	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8	T 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	1.2	3.1	8.9	16.3	40 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	8.6	15.9	41 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	2.9	8.3	15.5	42 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	1.2	2.9	8.1	15.1	43 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	7.9	14.7	44 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	7.7	14.3	45 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	7.5	13.8	46 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	7.3	13.4	47 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	7.2	13.1	48 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	7.1	12.8	49 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	50 100	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	T	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	E	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	M	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	P	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	F	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	E	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	P	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	F	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	T	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	E	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	M	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	P	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	F	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	E	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	P	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	A	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	T	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	U	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	F	69	0.1	0.2	0.4	0.8	1.7	3.4	7.1
20	0.1	0.1	0.3	0.7	2.0	5.8	16.0	29.1	E	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	P	71	0.1	0.2	0.4	0.8	1.7	3.4	7.2
22	0.1	0.1	0.3	0.6	1.9	5.4	15.3	29.6	D	72	0.1	0.2	0.4	0.8	1.7	3.5	7.3
23	0.1	0.1	0.3	0.6	1.8	5.3	14.9	29.9	E	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	G	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	29.1	P	75	0.1	0.2	0.4	0.9	1.7	3.6	7.5
26	0.1	0.1	0.2	0.6	1.6	4.7	13.7	28.2	E	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	27.7	F	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	27.2	E	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	26.6	S	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9
30	0.1	0.1	0.3	0.6	1.4	4.2	12.2	26.0	F	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	25.4	A	81	0.1	0.2	0.5	0.9	1.9	3.9	8.1
32	0.1	0.1	0.3	0.5	1.3	3.9	11.5	24.8	H	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1
33	0.1	0.1	0.3	0.5	1.3	3.7	11.2	24.3	K	83	0.1	0.2	0.5	0.9	1.9	3.9	8.2
34	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.7	E	84	0.1	0.2	0.5	0.9	1.9	4.0	8.3
35	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2	M	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	H	86	0.1	0.2	0.5	1.0	2.0	4.0	8.4
37	0.1	0.1	0.3	0.6	1.3	3.3	9.9	19.2	E	87	0.1	0.2	0.5	1.0	2.0	4.1	8.5
38	0.1	0.1	0.3	0.6	1.2	3.2	9.6	17.7	F	88	0.1	0.2	0.5	1.0	2.0	4.1	8.6
39	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1	T	89	0.1	0.3	0.5	1.0	2.0	4.2	8.7
40	0.1	0.1	0.3	0.6	1.2	3.1	9.0	16.6	P	90	0.1	0.3	0.5	1.0	2.1	4.2	8.8
41	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.2	E	91	0.1	0.3	0.5	1.0	2.1	4.3	8.9
42	0.1	0.1	0.3	0.6	1.2	2.9	8.5	15.8	P	92	0.1	0.3	0.5	1.0	2.1	4.3	9.0
43	0.1	0.2	0.3	0.6	1.2	2.9	8.2	15.4	T	93	0.1	0.3	0.5	1.1	2.1	4.3	9.1
44	0.1	0.2	0.3	0.6	1.3	2.9	8.0	15.0	E	94	0.1	0.3	0.5	1.1	2.2	4.4	9.2
45	0.1	0.2	0.3	0.6	1.3	2.8	7.8	14.5	P	95	0.1	0.3	0.5	1.1	2.2	4.4	9.3
46	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.1	E	96	0.1	0.3	0.5	1.1	2.2	4.4	9.4
47	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.7	T	97	0.1	0.3	0.5	1.1	2.2	4.5	9.5
48	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.3	P	98	0.1	0.3	0.5	1.1	2.2	4.5	9.5
49	0.1	0.2	0.3	0.7	1.3	2.8	7.1	13.0	E	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	T	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
10	0.1	0.1	0.3	1.0	2.9	7.7	17.9	24.5	P 20	60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
11	0.1	0.1	0.3	1.0	2.9	7.5	17.6	25.2	F 21	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
12	0.1	0.1	0.3	0.9	2.7	7.3	17.9	25.9	M 22	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.7
13	0.1	0.1	0.3	0.9	2.6	7.1	18.1	26.4	F 23	63	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
14	0.1	0.1	0.3	0.9	2.5	6.9	18.1	27.0	P 24	64	0.1	0.2	0.4	0.7	1.5	3.2	6.7	10.6
15	0.1	0.1	0.3	0.8	2.4	6.7	18.1	27.4	R 25	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
16	0.1	0.1	0.3	0.8	2.3	6.5	17.8	27.8	A 26	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
17	0.1	0.1	0.3	0.7	2.2	6.3	17.3	28.1	T 27	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	2.1	6.1	16.7	28.3	U 28	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	5.9	16.3	28.2	R 29	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	5.7	15.9	27.9	F 30	70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
21	0.1	0.1	0.3	0.6	1.9	5.6	15.5	27.2	Y 31	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	1.8	5.4	15.2	26.4	D 32	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	1.8	5.2	14.8	25.7	E 33	73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
24	0.1	0.1	0.2	0.6	1.7	5.0	14.4	25.1	G 34	74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.3
25	0.1	0.1	0.2	0.6	1.6	4.9	14.0	24.5	U 35	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	1.6	4.7	13.6	24.0	P 36	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	4.5	13.2	23.5	E 37	77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
28	0.1	0.1	0.2	0.6	1.5	4.4	12.8	23.0	F 38	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.2	0.6	1.4	4.3	12.4	22.4	S 39	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.2	0.6	1.4	4.1	12.1	21.8	E 40	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	1.4	4.0	11.7	21.2	F 41	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	0.1	0.1	0.2	0.5	1.3	3.8	11.4	20.6	A 42	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	3.7	11.1	20.1	M 43	83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
34	0.1	0.1	0.2	0.5	1.3	3.6	10.7	19.5	R 44	84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
35	0.1	0.1	0.2	0.5	1.3	3.5	10.4	19.0	E 45	85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
36	0.1	0.1	0.2	0.5	1.3	3.4	10.1	18.5	M 46	86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
37	0.1	0.1	0.2	0.5	1.2	3.3	9.8	18.0	E 47	87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
38	0.1	0.1	0.2	0.5	1.2	3.2	9.5	17.5	E 48	88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
39	0.1	0.1	0.2	0.5	1.2	3.1	9.2	17.0	I 49	89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
40	0.1	0.1	0.2	0.5	1.2	3.0	8.9	16.5	T 50	90	0.1	0.2	0.5	1.0	2.0	4.2	8.7	13.3
41	0.1	0.1	0.2	0.5	1.2	3.0	8.7	16.0	Y 51	91	0.1	0.2	0.5	1.0	2.1	4.2	8.8	13.4
42	0.1	0.1	0.2	0.5	1.2	2.9	8.4	15.6	92	92	0.1	0.2	0.5	1.0	2.1	4.3	8.9	13.5
43	0.1	0.1	0.2	0.5	1.2	2.9	8.1	15.2	93	93	0.1	0.2	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.1	0.2	0.5	1.3	2.9	7.9	14.8	94	94	0.1	0.2	0.5	1.1	2.1	4.3	9.0	13.8
45	0.1	0.1	0.2	0.5	1.3	2.9	7.7	14.4	95	95	0.1	0.2	0.5	1.1	2.2	4.4	9.1	13.9
46	0.1	0.1	0.2	0.5	1.3	2.8	7.5	13.9	96	96	0.1	0.2	0.5	1.1	2.2	4.4	9.2	14.1
47	0.1	0.1	0.2	0.5	1.3	2.8	7.4	13.5	97	97	0.1	0.2	0.5	1.1	2.2	4.5	9.3	14.2
48	0.1	0.1	0.2	0.5	1.3	2.8	7.2	13.2	98	98	0.1	0.2	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.1	0.2	0.5	1.3	2.8	7.1	12.8	99	99	0.1	0.2	0.5	1.1	2.2	4.6	9.5	14.5
50	0.1	0.1	0.2	0.5	1.3	2.8	7.0	12.5	100	100	0.1	0.2	0.5	1.1	2.2	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	0.1	0.2	0.3	1.4	3.8	7.6	12.4	15.3	51	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.1
2	0.1	0.2	0.5	1.4	3.7	7.7	13.1	16.3	52	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.9
3	0.1	0.2	0.5	1.3	3.5	7.9	13.9	17.5	53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.7
4	0.1	0.1	0.4	1.3	3.4	8.0	14.5	18.5	54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.5
5	0.1	0.1	0.4	1.2	3.3	8.1	15.2	19.6	55	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.3
6	0.1	0.1	0.4	1.2	3.2	8.2	15.7	20.7	56	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.1
7	0.1	0.1	0.4	1.1	3.1	8.2	16.2	21.9	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	16.6	22.8	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	23.8	59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
10	0.1	0.1	0.3	1.0	2.8	7.7	17.3	24.6	60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
11	0.1	0.1	0.3	0.9	2.7	7.4	17.6	25.3	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.7
12	0.1	0.1	0.3	0.9	2.6	7.2	17.9	25.9	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
13	0.1	0.1	0.3	0.9	2.5	7.0	18.1	26.5	63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.6
14	0.1	0.1	0.3	0.8	2.4	6.8	18.1	27.0	64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.6
15	0.1	0.1	0.3	0.8	2.4	6.7	18.0	27.4	65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
16	0.1	0.1	0.3	0.8	2.3	6.5	17.6	27.8	66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
17	0.1	0.1	0.3	0.7	2.2	6.3	17.1	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	2.1	6.1	16.6	28.3	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	5.9	16.1	28.1	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	5.7	15.7	27.7	70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
21	0.1	0.1	0.3	0.6	1.9	5.5	15.4	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	5.3	15.1	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	5.1	14.7	25.3	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	5.0	14.3	24.9	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	4.8	13.9	24.3	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	4.6	13.5	23.8	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	1.5	4.5	13.1	23.3	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	1.5	4.3	12.7	22.8	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	1.4	4.2	12.3	22.2	79	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
30	0.1	0.1	0.3	0.5	1.4	4.1	12.0	21.6	80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
31	0.1	0.1	0.3	0.5	1.3	3.9	11.6	21.0	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.3
32	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.4	82	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
33	0.1	0.1	0.3	0.5	1.3	3.6	10.9	19.9	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	1.3	3.5	10.6	19.3	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	1.3	3.4	10.2	18.8	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	1.3	3.3	10.0	18.3	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	1.2	3.2	9.7	17.8	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	9.4	17.3	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	3.1	9.1	16.8	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	3.0	8.8	16.3	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	8.6	15.9	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	2.9	8.3	15.5	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	1.2	2.9	8.1	15.1	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	2.8	7.9	14.6	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	2.8	7.6	14.2	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	2.8	7.5	13.8	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	2.8	7.3	13.4	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	2.8	7.2	13.0	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	2.8	7.0	12.7	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	2.8	6.9	12.4	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 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
10	0.1	0.1	0.3	1.0	2.8	7.6	17.4	24.7	60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.7
11	0.1	0.1	0.3	0.9	2.7	7.4	17.6	25.4	61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.6
12	0.1	0.1	0.3	0.9	2.6	7.2	17.9	26.0	62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
13	0.1	0.1	0.3	0.9	2.5	7.0	18.0	26.6	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	6.8	18.0	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	6.6	17.9	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	0.8	2.3	6.4	17.5	27.8	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	2.2	6.2	16.9	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	2.1	6.0	16.4	28.2	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	5.8	16.0	28.0	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	1.9	5.6	15.6	27.5	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
23	0.1	0.1	0.2	0.6	1.7	5.1	14.5	25.3	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	4.9	14.1	24.7	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	4.8	13.8	24.1	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	4.6	13.4	23.7	76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
27	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.1	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	1.4	4.3	12.6	22.6	78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
29	0.1	0.1	0.3	0.5	1.4	4.2	12.2	22.0	79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
30	0.1	0.1	0.3	0.5	1.4	4.0	11.8	21.4	80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
31	0.1	0.1	0.3	0.5	1.3	3.9	11.5	20.8	81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
32	0.1	0.1	0.3	0.5	1.3	3.7	11.2	20.2	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	3.6	10.8	19.7	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	3.5	10.5	19.1	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	3.4	10.1	18.6	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	1.2	3.3	9.9	18.1	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	1.2	3.2	9.6	17.6	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	3.1	9.3	17.1	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	3.1	9.0	16.6	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	3.0	8.7	16.1	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	2.9	8.5	15.7	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	2.9	8.2	15.3	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	1.2	2.9	8.0	14.9	93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
44	0.1	0.2	0.3	0.6	1.2	2.8	7.8	14.5	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	1.3	2.8	7.6	14.0	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	1.3	2.8	7.4	13.6	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	2.8	7.2	13.2	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	2.8	7.0	12.9	98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
49	0.1	0.2	0.3	0.7	1.3	2.8	7.1	12.6	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	2.8	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	1.7	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	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.3
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.3
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	3.3
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	1.3	2.1	3.3
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	1.3	2.1	3.3
7	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	3.3
8	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	3.3
9	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	3.3
10	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	3.3
11	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	3.3
12	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	3.3
13	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	3.3
14	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	3.3
15	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	3.3
16	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	3.3
17	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	3.3
18	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	3.3
19	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	3.3
20	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	3.3
21	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	3.3
22	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	3.3
23	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	3.3
24	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	3.3
25	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	3.3
26	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	3.3
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
45	0.1	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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
46	0.1	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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7

TEMPERATURE • DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 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	F	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	E	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	R	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	A	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	T	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	1.2	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.8	4.9	6.6
60	P	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	2.0	2.4	2.9	3.2	3.9	5.1	6.8
61	F	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	1.2	1.4	1.6	1.8	2.1	2.5	3.0	3.3	4.0	5.2	6.9
62	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	1.5	1.7	1.9	2.2	2.6	3.1	3.4	4.2	5.3	7.1
63	P	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	1.5	1.7	2.0	2.3	2.7	3.2	3.5	4.3	5.5	7.3
64	F	0.3	0.4	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.8	3.3	3.7	4.4	5.7	7.4
65	R	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	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.8	4.6	5.7	7.6
66	A	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.2	2.6	3.0	3.6	3.9	4.7	6.0	7.8
67	T	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	1.6	1.8	2.1	2.3	2.7	3.1	3.7	4.1	4.9	6.2	8.0
68	P	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.4	2.8	3.2	3.8	4.2	5.1	6.3	8.2
69	F	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	M	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	3.6	4.1	4.7	5.6	6.9	8.9
71	P	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	F	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	4.5	4.9	5.8	9.1
73	M	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	P	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.4	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	F	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	R	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	A	0.4	0.5	0.7	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.9	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	T	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	2.6	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	3.0	3.3	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	3.6	4.1	4.6	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	3.8	4.3	4.8	5.6	6.4	7.1	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	3.6	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	1.8	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	R	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	E	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	W	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	T	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	T	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	W	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	M	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	W	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	W	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	W	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	W	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	W	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	W	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.7	3.2	3.9	4.5	5.0	5.6	6.4	7.1	7.9	8.7	9.7	10.9	12.3	13.1	14.9	17.4	20.5
99	W	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	W	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.7	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	3150	4000	5000	6300	8000	10000
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	3.1	3.6	4.0	4.8	6.0	7.8
52	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	1.9	2.1	2.4	2.8	3.2	3.8	4.1	5.0	6.2	8.1
53	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	2.5	2.9	3.3	3.9	4.3	5.2	6.4	8.3
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	3.5	4.1	4.5	5.4	6.7	8.5
55	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.8	3.2	3.6	4.3	4.7	5.6	6.9	8.5
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	3.8	4.4	4.8	5.8	7.1	9.0
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	4.0	4.6	5.0	6.0	7.4	9.3
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	4.1	4.8	5.2	6.2	7.6	9.6
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	4.3	5.0	5.5	6.4	7.9	9.9
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	3.2	3.5	3.9	4.5	5.2	5.7	6.7	8.1	10.2
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	4.7	5.5	5.9	6.9	8.4	10.5
62	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.3	4.9	5.7	6.1	7.2	8.7	10.8
63	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	2.8	3.2	3.6	4.0	4.5	5.1	5.9	6.4	7.5	9.0	11.2
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	5.3	6.2	6.7	7.8	9.4	11.6
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	5.6	6.4	6.9	8.1	9.7	11.9
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	5.8	6.7	7.2	8.4	10.0	12.3
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	6.1	7.0	7.5	8.7	10.4	12.7
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	6.3	7.3	7.8	9.1	10.8	13.2
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	6.6	7.6	8.2	9.4	11.2	13.6
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	6.9	7.9	8.5	9.8	11.6	14.1
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	7.2	8.2	8.9	10.2	12.1	14.6
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	7.5	8.6	9.2	10.6	12.5	15.1
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	7.9	9.0	9.6	11.0	13.0	15.6
74	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	4.8	5.3	5.9	6.5	7.3	8.2	9.4	10.0	11.5	13.5	16.2
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	8.6	9.8	10.4	11.9	14.0	16.7
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	8.9	10.2	10.9	12.4	14.5	17.3
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	9.3	10.6	11.3	12.9	15.1	18.0
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	9.8	11.1	11.8	13.4	15.7	18.6
79	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.8	3.4	4.1	4.8	5.4	6.1	6.7	7.4	8.2	9.1	10.2	11.5	12.3	14.0	16.3	19.3
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	10.6	12.0	12.8	14.6	16.9	20.0
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	11.1	12.6	13.4	15.2	17.6	20.7
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	11.6	13.1	14.0	15.8	18.3	21.5
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	12.1	13.7	14.6	16.5	19.0	22.3
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	12.7	14.3	15.2	17.1	19.8	23.1
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	13.2	14.9	15.8	17.9	20.6	24.0
86	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	3.8	4.7	5.7	6.8	7.8	8.9	10.2	11.2	12.4	13.8	15.6	16.5	18.6	21.4	24.9
87	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	3.9	4.8	5.9	7.2	8.4	9.5	10.7	11.8	13.0	14.5	16.2	17.2	19.4	22.2	25.9
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	15.1	16.9	18.0	20.2	23.1	26.9
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	8.9	10.3	11.7	12.9	14.2	15.8	17.7	18.8	21.0	24.1	27.9
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	16.5	18.5	19.6	21.9	25.1	29.0
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	10.6	12.6	14.1	15.5	17.2	19.3	20.4	22.9	26.1	30.2
92	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.9	5.1	6.4	8.0	9.7	11.4	13.2	14.7	16.3	18.0	20.1	21.3	23.8	27.2	31.3
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	18.8	21.0	22.3	24.9	28.3	32.6
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	19.7	22.0	23.2	25.9	29.5	33.9
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	20.6	23.0	24.3	27.1	30.7	35.2
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	21.5	24.0	25.3	28.2	32.0	36.6
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	22.5	25.1	26.5	29.4	33.3	38.1
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	23.6	26.2	27.7	30.7	34.7	39.7
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	24.6	27.4	28.9	32.1	36.2	41.3
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	25.7	28.6	30.2	33.5	37.7	43.0

	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.1	1.4	2.4	3.6
2	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.1	1.6	2.4	3.7
3	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.1	1.6	2.4	3.7
4	0.0	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	0.3	0.4	0.5	0.7	1.0	1.1	1.6	2.4	3.7
5	0.0	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	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.8
6	0.0	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	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.8
7	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	1.0	1.2	1.7	2.5	3.9
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.6	3.9
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.6	3.9
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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7	4.0
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	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.9	2.7	4.0
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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8
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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8
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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8
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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8
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	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.8	2.9
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	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.8	2.9
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	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.8	2.9
19	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	0.7	0.8	1.0	1.3	1.8	2.9

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	
T	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
E	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
M	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
P	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
F	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
R	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	12.0
S	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
A	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
G	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
H	60	0.2	0.3	0.5	0.6	0.9	1.2	1.4	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
I	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
T	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
E	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
R	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
F	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
S	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
A	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
G	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
H	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
I	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
T	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
E	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
R	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
S	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
A	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
G	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
H	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
I	78	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	9.7	11.1	12.5	13.7	15.3	17.1	18.1	20.3	23.2	26.9
T	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
E	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
R	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
S	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	7.3	9.0	10.8	12.9	14.7	16.5	18.3	20.4	21.6	24.1	27.4	31.6
A	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	11.0	13.4	15.3	17.2	19.2	21.4	22.6	25.2	28.6	32.8
G	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
H	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
I	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
T	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
E	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
R	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	27.6	28.0	29.5	32.7	36.8
S	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	28.2	30.9	34.2	38.4	43.6
A	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
G	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	27.8	31.6	33.7	37.3	41.9	47.4
H	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
I	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
T	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
E	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
R	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
S	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
A	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
G	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

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

	BAND CENTER FREQUENCY, HZ															
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600
1	0.0	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	0.3	0.3
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
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
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
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
6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
8	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
9	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
10	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
11	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
12	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
13	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
14	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
15	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
16	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
17	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
18	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5
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	0.3	0.4	0.5

TEMPERATURE, DEGREES FAHRENHEIT

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	T	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	E	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	M	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	P	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	E	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	
56	R	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	A	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	U	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	P	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	E	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	R	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	A	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	U	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	P	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	E	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.1	3.9	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	R	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	A	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	U	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.0	4.9	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	P	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	E	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	22.1	25.9	
71	R	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	A	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.0	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	U	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	P	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.3	6.8	8.3	10.1	12.2	14.1	15.8	17.6	19.7	20.8	23.2	26.4	30.4	
75	E	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.0	6.3	7.8	9.5	11.3	13.0	14.6	16.5	18.5	19.6	21.8	24.3	27.6	31.7
76	R	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.2	6.7	8.2	10.0	11.8	13.6	15.1	17.2	19.4	21.6	23.8	26.5	30.4	
77	A	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	6.6	8.1	10.0	11.8	13.6	15.1	17.0	19.2	21.6	23.8	26.5	30.4	
78	U	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.6	5.0	6.5	8.0	9.8	10.9	13.0	14.6	16.6	18.6	20.6	22.7	25.0	27.7	31.3
79	P	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	8.9	11.1	13.0	14.6	16.5	19.3	21.9	24.8	26.1	29.0	32.7	37.4
80	E	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	R	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.8	9.1	11.4	14.3	17.4	20.6	23.8	27.0	28.6	31.7	35.7	40.3	
82	A	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.4	4.7	6.7	9.1	11.5	14.6	17.8	21.2	24.7	28.1	30.0	33.2	37.3	42.6	
83	U	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	P	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	E	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	R	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	A	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	15.3	19.4	23.8	28.8	34.1	36.6	41.2	46.4	52.3	
88	U	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	P	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.3	6.0	8.3	11.4	15.8	19.9	24.6	30.2	36.3	39.3	44.6	50.7	57.0	
90	E	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	8.1	11.2	15.8	20.2	25.0	30.8	37.3	40.6	46.4	52.9	59.6	
91	R	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.8	8.0	11.0	15.7	20.4	25.4	31.4	38.2	43.8	48.2	55.0	62.2	
92	A	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	38.2	43.0	50.0	57.2	65.0	
93	U	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	P	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	E	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	R	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	A	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	U	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	P	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	E	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	19.3	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	6.3	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	13.4
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	9.1	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	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	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	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	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	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	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	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	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	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	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	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	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	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	17.5	19.5	20.6	23.0	26.1	30.0	
64	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	11.5	13.5	15.4	17.5	19.5	20.6	23.0	26.1	30.0	
65	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	11.5	13.5	15.4	17.5	19.5	20.6	23.0	26.1	30.0	
66	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	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.3	6.0	7.8	9.8	12.5	15.1	17.9	20.7	23.5	24.9	27.7	31.2	35.6	
68	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	9.9	12.5	15.1	17.9	20.7	23.5	24.9	27.7	31.2	35.6	
69	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	21.5	24.5	26.1	29.0	32.7	37.2	
70	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	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	23.1	26.7	28.4	31.8	35.7	40.6	
72	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	23.1	26.7	28.4	31.8	35.7	40.6	
73	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	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	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	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	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	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	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.6	5.0	6.8	9.3	13.4	17.8	22.4	27.9	34.4	37.7	44.1	50.7	57.8	
80	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	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	17.6	23.0	28.8	35.8	39.6	46.9	54.8	62.8	
82	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	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	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	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	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	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	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	39.4	44.8	55.0	67.7	81.3	
89	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	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	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	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	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	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	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	39.4	46.6	60.5	76.8	96.0	
96	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	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	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	9.7	13.8	19.3	26.8	37.6	44.6	60.9	79.7	100.8	
99	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	26.2	37.1	43.9	60.5	80.5	102.3	
100	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
T	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
E	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
M	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
P	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
F	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
R	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
V	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
U	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
N	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
F	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
,	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
D	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
F	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
G	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
T	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
F	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
E	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
S	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
F	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
H	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
R	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
E	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
N	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
H	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
E	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
I	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
I	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5

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	F	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	H	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	M	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	E	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	I	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	E	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	F	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	H	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.6	7.3	9.0	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	E	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	P	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	E	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	R	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	A	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	21.8	25.1	26.8	30.0	33.7	38.3
67	U	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	E	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	E	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	I	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	D	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	G	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	E	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	6.4	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	E	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	6.2	8.5	12.0	16.7	21.9	27.7	34.6	38.4	45.8	54.1	62.1
78	S	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	E	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	F	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	A	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	H	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	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	M	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	E	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	N	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	H	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	E	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	I	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	E	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	13.7	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	H	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	9.5	13.2	18.4	25.6	35.9	42.7	57.7	74.8	94.3
93	M	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	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	4.3	6.1	8.9	12.5	17.5	24.6	34.5	40.8	56.3	76.7	98.5
96	I	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	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	2.9	4.2	5.8	8.6	12.1	16.9	23.9	33.7	39.7	54.4	76.7	100.8
98	H	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	E	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	I	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

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

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	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	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	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8
9	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	0.6	0.7	0.8
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	0.9
11	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
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	0.9	1.0
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	1.1
14	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
15	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
16	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
17	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
18	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
19	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	1.2	1.3
20	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3
21	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	1.5
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	2.0	2.3
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	0.9	1.1	1.2	1.3	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	2.4
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	2.5
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	0.5	0.6	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.4
34	0.2	0.2	0.3	0.5	0.6	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.4
35	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
36	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.8	4.2
37	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.3	3.6	4.0	4.4
38	0.2	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
39	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	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	6.2
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	6.2
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	6.9
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	7.4
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	1.3	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 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	0.1	0.1	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	0.6	0.7	0.8	0.9	1.2	1.5	1.7	2.3	3.1	4.5
2	0.1	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	1.0	1.2	1.6	1.8	2.3	3.2	4.6
3	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	0.6	0.7	0.9	1.0	1.3	1.6	2.0	2.4	3.3	4.7
4	0.1	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	0.6	0.7	0.8	1.0	1.1	1.4	1.8	2.0	2.6	3.5	4.9
5	0.2	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	2.2	2.8	3.7	5.2
7	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	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.6	2.0	2.9	3.8	5.3
8	0.2	0.2	0.2	0.3	0.3	0.3	0.3	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	1.9	2.2	3.0	3.9	5.4
9	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	1.7	2.1	2.4	3.1	4.1	5.6
10	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	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.3	4.3	5.9
11	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	1.0	1.2	1.3	1.6	1.9	2.3	2.5	3.2	4.2	5.7	
12	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	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.3	4.3	5.9	
13	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	1.6	1.8	2.2	2.5	2.8	3.4	4.5	6.0	
14	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	1.4	1.6	1.8	2.0	2.4	2.9	3.0	3.7	4.8	6.2	
15	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	2.9	3.2	3.9	5.0	6.6	
16	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	1.7	1.9	2.2	2.5	3.0	3.3	4.0	5.1	6.8	
17	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	1.5	1.7	2.0	2.3	2.6	3.2	3.5	4.2	5.3	7.0	
18	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	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2	
19	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	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.8	7.5	
20	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	
21	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	3.8	4.2	5.0	6.2	8.0	
22	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.2	2.6	3.0	3.4	4.0	4.4	5.2	6.5	8.3	
23	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.5	
24	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	2.9	3.3	3.8	4.4	4.8	5.7	7.0	8.9	
25	0.2	0.3	0.4	0.5	0.6	0.8	1.0	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	
26	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.2	2.3	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.6	9.5	
27	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.3	2.5	2.7	3.1	3.4	3.9	4.4	5.1	5.5	6.5	7.9	9.9	
28	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.7	5.4	5.8	6.8	8.2	10.3	
29	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.9	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	
30	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	3.2	3.6	4.1	4.5	5.2	6.0	6.4	7.5	9.0	11.1	
31	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	11.5	
32	0.2	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	4.1	4.5	5.1	5.7	6.6	7.1	8.2	9.8	12.0	
33	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.4	2.8	3.2	3.5	3.9	4.3	4.8	5.3	6.0	6.9	7.4	8.6	10.2	12.4	
34	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	5.3	6.0	6.9	7.4	8.6	10.2	12.4	
35	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	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	5.3	5.9	6.7	7.6	8.2	9.4	11.1	13.5	
37	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	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	4.4	4.8	5.4	5.9	6.6	7.4	8.4	9.0	10.3	12.7	15.2	
39	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	12.7	15.2	
40	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	13.3	15.9	
41	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	13.9	16.6	
42	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.7	4.5	5.2	5.9	6.7	7.4	8.2	9.1	10.3	11.0	12.5	14.6	17.3	
43	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.7	4.6	5.4	6.2	7.1	7.8	8.6	9.6	10.9	11.6	13.1	15.2	18.0	
44	0.1	0.2	0.2	0.3	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	18.8	
45	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	
46	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	6.9	8.0	9.1	10.1	11.3	12.6	13.4	15.2	17.5	20.5	
47	0.1	0.1	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	21.4	
48	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	6.2	7.5	8.9	10.0	11.3	12.5	14.0	14.9	16.7	19.2	22.3	
49	0.1	0.1	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	23.3	
50	0.1	0.1	0.2	0.3	0.4	0.6	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	

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 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	H	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	M	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	P	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	E	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
6	R	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	A	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	1.0	1.2	1.4	1.7	2.1	2.3	2.9	3.9	5.4
8		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	1.5	1.8	2.2	2.4	3.0	4.0	5.5
9		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	1.9	2.4	2.6	3.2	4.2	5.7
10		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	1.3	1.5	1.7	2.0	2.4	2.6	3.3	4.3	5.8
11		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	2.5	2.8	3.4	4.4	6.0
12		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	1.9	2.3	2.7	3.0	3.7	4.8	6.2
13		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	1.8	2.1	2.5	2.8	3.5	4.6	6.3	
14		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	2.8	3.7	4.8	6.5	
15		0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.9	2.2	2.5	3.0	3.1	3.8	4.9	6.5
16		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	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	7.0
17		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		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	2.9	3.5	3.8	4.6	5.7	7.4
19		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	2.7	3.1	3.6	4.0	4.8	5.7	7.7
20		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		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	6.2	8.0
22		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		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		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		0.2	0.3	0.5	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		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		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		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		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		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	F	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	A	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	H	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.4	3.7	4.1	4.6	5.1	5.7	6.4	7.3	7.8	9.0	10.7	13.0
34	M	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	R	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	E	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	M	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	N	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	I	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.3	5.0	5.7	6.4	7.1	7.8	8.8	9.9	10.6	12.0	14.0	16.7
40	T	0.1	0.2	0.2	0.3	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		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		0.1	0.2	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	8.4	9.2	10.3	11.6	12.3	13.9	16.1	19.0
43		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		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		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		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		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		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		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		0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2	6.5	8.1	10.0	11.9	13.7	15.5	17.5	18.5	20.6	23.4	27.0

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	
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
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	M	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	P	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	E	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	A	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	T	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	E	0.1	0.1	0.1	0.2	0.2	0.3	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	M	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	P	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	E	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	A	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.9	5.4	7.4	10.5	14.5	18.7	23.5	29.3	32.5	38.5	45.1	51.9
63	T	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	29.9	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	M	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	P	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	9.0	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	A	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	T	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	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	3.3	4.6	6.4	9.3	12.7	17.4	24.5	32.9	37.1	46.0	57.2	69.6
71	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	3.2	4.5	6.3	9.1	12.5	17.2	24.0	33.0	37.5	46.7	58.3	71.5
72	P	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	E	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	A	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	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	4.1	5.8	8.4	11.7	16.2	22.4	31.8	37.2	49.0	62.3	78.0
76	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	4.0	5.7	8.2	11.5	16.0	22.1	31.2	37.2	49.2	63.1	79.3
77	M	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	P	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	M	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	P	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	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	2.3	3.3	4.7	6.8	9.7	13.5	19.2	27.4	32.6	44.3	62.5	87.3
86	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	3.2	4.6	6.7	9.5	13.3	18.9	27.0	32.1	43.7	61.6	87.0
87	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	2.2	3.1	4.5	6.5	9.2	13.0	18.5	26.5	31.6	43.2	60.7	86.2
88	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	2.2	3.0	4.3	6.4	9.0	12.8	18.2	26.1	31.1	42.7	59.8	84.9
89	M	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	P	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	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	2.9	4.0	6.0	8.5	12.0	17.1	24.7	29.5	40.9	57.6	81.0
92	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	2.0	2.8	4.0	5.9	8.3	11.7	16.8	24.2	29.0	40.3	57.0	79.9
93	T	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	M	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	P	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	A	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	T	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	25.3	35.6	51.1	73.1
100	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	2.5	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	0.9	1.0	1.1	1.2	1.4	1.7	2.1	2.3	2.9	3.9	5.4
5	13	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	0.9	1.0	1.1	1.2	1.3	1.6	2.0	2.2	2.4	3.0	4.0
6	14	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	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.3	2.5	3.2	4.2
7	15	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	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3
8	16	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	1.8	2.2	2.5	2.8	3.4	4.4
9	17	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	1.8	2.2	2.6	2.9	3.6	4.6
10	18	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	1.8	2.0	2.4	2.9	3.5	4.5
11	19	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	1.8	2.0	2.4	2.9	3.5	4.5
12	20	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	1.8	2.0	2.4	2.9	3.5	4.5
13	21	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	1.8	2.0	2.4	2.9	3.5	4.5
14	22	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	1.8	2.0	2.4	2.9	3.5	4.5
15	23	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	1.8	2.0	2.4	2.9	3.5	4.5
16	24	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	1.8	2.0	2.4	2.9	3.5	4.5
17	25	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	1.8	2.0	2.4	2.9	3.5	4.5
18	26	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	1.8	2.0	2.4	2.9	3.5	4.5
19	27	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	1.8	2.0	2.4	2.9	3.5	4.5
20	28	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	1.8	2.0	2.4	2.9	3.5	4.5
21	29	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	1.8	2.0	2.4	2.9	3.5	4.5
22	30	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	1.8	2.0	2.4	2.9	3.5	4.5
23	31	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	1.8	2.0	2.4	2.9	3.5	4.5
24	32	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	1.8	2.0	2.4	2.9	3.5	4.5
25	33	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	1.8	2.0	2.4	2.9	3.5	4.5
26	34	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	1.8	2.0	2.4	2.9	3.5	4.5
27	35	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	1.8	2.0	2.4	2.9	3.5	4.5
28	36	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	1.8	2.0	2.4	2.9	3.5	4.5
29	37	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	1.8	2.0	2.4	2.9	3.5	4.5
30	38	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	1.8	2.0	2.4	2.9	3.5	4.5
31	39	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	1.8	2.0	2.4	2.9	3.5	4.5
32	40	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	1.8	2.0	2.4	2.9	3.5	4.5
33	41	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	1.8	2.0	2.4	2.9	3.5	4.5
34	42	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	1.8	2.0	2.4	2.9	3.5	4.5
35	43	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	1.8	2.0	2.4	2.9	3.5	4.5
36	44	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	1.8	2.0	2.4	2.9	3.5	4.5
37	45	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	1.8	2.0	2.4	2.9	3.5	4.5
38	46	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	1.8	2.0	2.4	2.9	3.5	4.5
39	47	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	1.8	2.0	2.4	2.9	3.5	4.5
40	48	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	1.8	2.0	2.4	2.9	3.5	4.5
41	49	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	1.8	2.0	2.4	2.9	3.5	4.5
42	50	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	1.8	2.0	2.4	2.9	3.5	4.5
43		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	1.8	2.0	2.4	2.9	3.5	4.5
44		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	1.8	2.0	2.4	2.9	3.5	4.5
45		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	1.8	2.0	2.4	2.9	3.5	4.5
46		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	1.8	2.0	2.4	2.9	3.5	4.5
47		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	1.8	2.0	2.4	2.9	3.5	4.5
48		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	1.8	2.0	2.4	2.9	3.5	4.5
49		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	1.8	2.0	2.4	2.9	3.5	4.5
50		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	1.8	2.0	2.4	2.9	3.5	4.5

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	4.0	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	0.6	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	28.0	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	1.1	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	2.0	2.9	4.1	5.8	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	4.0	5.6	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	36.7	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	2.7	3.8	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	3.7	5.3	7.9	11.0	15.3	21.2	29.9	35.6	47.9	61.9	78.4		
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	3.8	5.4	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	28.0	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	6.5	9.2	12.9	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	16.6	23.5	28.1	39.1	55.9	78.6		
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	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.8	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	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.6	3.7	5.4	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	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.6	3.6	5.3	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	0.3	0.4	0.5	0.7	1.1	1.4	1.9	2.6	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	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.5	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.2	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	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.4	3.2	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	0.4	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
5	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	1.7	2.0	2.4	2.7	3.3	4.3	5.9
6	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	1.3	1.5	1.8	2.1	2.5	2.8	3.5	4.5	6.0
7	0.2	0.3	0.3	0.4	0.4	0.5	0.6	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	0.4	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	4.8	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	1.9	2.2	2.6	3.2	3.9	5.0	6.6
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	1.6	1.8	2.1	2.4	2.9	3.2	3.9	5.0	6.6
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	2.2	2.5	2.9	3.4	4.1	5.2	6.8
12	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	1.6	1.8	2.2	2.5	2.9	3.4	4.1	5.2	6.8
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	2.5	2.9	3.4	4.1	5.2	6.8
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	1.9	2.2	2.5	2.9	3.4	4.1	5.2	6.8
15	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	1.7	1.9	2.2	2.5	2.9	3.4	4.1	5.2	6.8
16	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	1.7	1.9	2.2	2.5	2.9	3.4	4.1	5.2	6.8
17	0.2	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	1.6	1.8	2.0	2.3	2.7	3.1	3.8	4.9	6.1
18	0.2	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	1.6	1.8	2.0	2.3	2.7	3.1	3.8	4.9	6.1
19	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	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	4.1	5.2	6.8
20	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	4.1	5.2	6.8	9.1
21	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	4.1	5.2	6.8	9.1
22	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	4.1	5.2	6.8	9.1
23	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.8	1.0	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.4	4.1	5.2	6.8	9.1
24	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.8	1.0	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.4	4.1	5.2	6.8	9.1
25	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.8	1.0	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.4	4.1	5.2	6.8	9.1
26	0.1	0.2	0.3	0.4	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
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	
28	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	5.4	6.1	7.0	7.5	8.6	10.3	
29	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.0	3.5	4.0	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.3	
30	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.0	3.5	4.0	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.3	
31	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.3	12.5	
32	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.3	12.5	
33	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.2	2.7	3.3	4.0	4.6	5.2	5.9	6.5	7.2	8.0	9.1	9.7	11.1	13.0
34	0.1	0.1	0.2	0.3	0.4	0.5	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
35	0.1	0.1	0.2	0.3	0.4	0.5	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
36	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	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
37	0.1	0.1	0.2	0.3	0.4	0.5	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
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	11.1	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	2.0	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	5.8	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	5.8	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	1.0	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	22.5
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	0.8	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	7.7	9.7	11.7	13.8	15.9	18.1	19.2	21.4	24.3	27.9
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	20.6	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	3.1	4.2	5.8	8.0	10.5	13.0	15.9	19.2	22.5	24.3	27.5	31.1	35.4

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	0.3	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	1.9	2.3	2.6	3.1	4.1		
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	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	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		
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		
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	1.8	2.1	2.5	2.8	3.4	4.9		
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	2.2	2.6	3.0	3.4	5.1		
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	1.6	1.8	2.1	2.4	2.7	3.3	3.6	5.5		
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	1.9	2.2	2.5	2.9	3.4	4.0	5.7		
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	1.6	1.8	2.1	2.3	2.6	3.1	3.6	5.5		
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	1.6	1.8	2.1	2.3	2.6	3.1	3.6	5.5		
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	1.9	2.2	2.5	2.8	3.4	4.0	5.7		
15	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
16	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
17	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
18	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
19	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
20	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
21	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
22	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
23	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
24	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
25	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
26	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4	5.0		
27	0.1	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4		
28	0.1	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4		
29	0.1	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4		
30	0.1	0.2	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	1.7	1.9	2.2	2.5	2.8	3.4		
31	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
32	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
33	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
34	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
35	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
36	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
37	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
38	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
39	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
40	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
41	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8	3.4		
42	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
43	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
44	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
45	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
46	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
47	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
48	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
49	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		
50	0.1	0.1	0.1	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	1.7	1.9	2.2	2.5	2.8		

TEMPERATURE . . . DEGREE CELSIUS

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	2000	2500	3150	4000	5000	6300	8000	10000																															
TEMPERATURE	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					
DEGREE	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
FEET	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
HOURS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
MINUTES	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
SECONDS	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5</																																															

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	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	1.3	1.8	2.6	3.7	5.1	6.9	10.0	13.2	16.6	20.7	25.5	28.0	32.8	37.8	43.3
52	0.1	0.1	0.1	0.2	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	13.2	16.6	21.1	26.1	28.6	34.0	39.5	45.5
53	0.1	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	6.7	9.5	13.1	17.0	21.4	26.7	29.6	35.1	41.2	47.5
54	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.6	9.3	13.0	17.1	21.7	27.2	30.2	36.2	42.9	49.6
55	0.1	0.1	0.1	0.2	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	12.7	17.2	22.0	27.7	30.8	37.2	44.5	51.7
56	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	3.3	4.6	6.4	9.0	12.4	17.1	22.2	28.1	31.4	38.2	46.0	53.9
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.5	6.3	8.9	12.2	16.9	22.4	28.6	32.0	39.0	47.4	56.2
58	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	6.1	8.7	12.0	16.6	22.5	29.0	32.5	39.8	48.8	58.3
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.1	4.3	6.0	8.6	11.8	16.2	22.5	29.3	32.9	40.5	50.1	60.3
60	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	5.9	8.4	11.6	15.9	22.3	29.6	33.4	41.3	51.2	62.2
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.7	8.3	11.4	15.6	21.9	29.8	33.8	41.9	52.3	64.0
62	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	8.1	11.2	15.4	21.4	29.8	34.1	42.5	53.3	65.7
63	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	2.8	3.9	5.5	8.0	11.0	15.1	21.0	29.7	34.3	43.1	54.3	67.3
64	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	5.4	7.8	10.8	14.9	20.7	29.4	34.3	43.6	55.2	68.8
65	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	7.6	10.6	14.7	20.3	28.9	34.1	44.1	56.0	70.2
66	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	7.5	10.4	14.5	20.0	28.2	33.7	44.4	56.8	71.4
67	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	5.0	7.3	10.2	14.2	19.7	27.8	33.1	44.5	57.5	72.7
68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	7.1	10.0	14.0	19.5	27.3	32.4	44.3	58.2	73.8
69	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	4.8	7.0	9.8	13.7	19.2	26.9	31.8	44.0	58.8	74.9
70	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	4.7	6.8	9.6	13.4	18.9	26.5	31.3	43.3	59.0	75.9
71	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	4.6	6.7	9.4	13.2	18.6	26.1	30.9	42.3	59.1	76.9
72	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	2.2	3.2	4.5	6.6	9.2	12.9	18.2	25.8	30.4	41.7	58.8	77.7
73	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	2.2	3.1	4.4	6.4	9.0	12.6	17.9	25.4	30.0	41.0	58.2	78.4
74	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	4.3	6.2	8.8	12.4	17.6	25.0	29.6	40.4	57.3	78.6
75	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	2.1	2.9	4.2	6.1	8.7	12.1	17.2	24.6	29.2	39.8	56.1	78.6
76	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	4.1	6.0	8.5	11.9	16.9	24.2	28.8	39.2	55.3	78.2
77	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	4.0	5.8	8.3	11.6	16.6	23.8	28.3	38.7	54.4	77.4
78	0.1	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	8.1	11.4	16.2	23.3	27.8	38.3	53.6	76.1
79	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	2.7	3.8	5.6	7.9	11.2	15.9	22.9	27.3	37.7	52.9	74.6
80	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	1.9	2.6	3.7	5.5	7.7	10.9	15.6	22.4	26.8	37.2	52.2	73.5
81	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	2.6	3.6	5.3	7.6	10.7	15.3	22.0	26.3	36.6	51.6	72.4
82	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	3.5	5.2	7.4	10.4	15.0	21.6	25.8	35.9	51.0	71.4
83	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	3.4	5.1	7.2	10.2	14.7	21.2	25.3	35.3	50.2	70.5
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	1.3	1.8	2.4	3.4	4.9	7.1	10.0	14.4	20.8	24.9	34.7	49.5	69.6
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	1.3	1.7	2.4	3.3	4.8	6.9	9.8	14.0	20.4	24.4	34.1	48.7	68.8
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	1.3	1.7	2.4	3.3	4.7	6.7	9.6	13.7	20.0	23.9	33.4	47.9	68.1
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	1.3	1.7	2.3	3.2	4.6	6.6	9.4	13.4	19.6	23.5	32.8	47.1	67.1
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	1.3	1.7	2.3	3.2	4.5	6.4	9.2	13.2	19.2	23.0	32.2	46.3	66.1
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	1.7	2.3	3.1	4.5	6.3	9.0	13.0	18.7	22.6	31.6	45.5	65.1
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	1.7	2.3	3.1	4.4	6.2	8.8	12.7	18.3	22.1	31.0	44.6	64.0
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	1.7	2.3	3.0	4.3	6.0	8.6	12.4	18.0	21.6	30.4	43.8	63.0
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	2.3	3.0	4.2	5.9	8.4	12.1	17.6	21.2	29.9	43.0	61.9
93	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.2	3.0	4.2	5.8	8.2	11.9	17.3	20.7	29.3	42.2	60.9
94	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.2	3.0	4.1	5.7	8.0	11.6	17.0	20.3	28.7	41.5	59.8
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	3.0	4.1	5.6	7.9	11.3	16.6	20.0	28.1	40.7	58.7
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	2.9	4.0	5.5	7.7	11.1	16.2	19.6	27.5	40.0	57.7
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	2.9	4.0	5.5	7.6	10.8	15.9	19.2	26.9	39.3	56.6
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	2.9	4.0	5.4	7.5	10.6	15.5	18.8	26.5	38.5	55.6
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	2.9	4.0	5.3	7.4	10.4	15.1	18.3	26.0	37.6	54.7
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	2.9	4.0	5.3	7.3	10.2	14.8	17.9	25.5	36.9	53.8

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 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	T	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	F	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	1.0	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
3	M	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	1.8	2.1	2.4	2.7	3.4	4.4	5.9
4	P	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	1.3	1.5	1.7	1.9	2.2	2.6	3.0	3.5	4.6	6.1
5	F	0.2	0.3	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	1.4	1.6	1.8	2.0	2.4	2.7	3.0	3.7	4.7	6.3
6	M	0.2	0.3	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	1.5	1.7	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.5
7	P	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	2.0	2.3	2.6	3.1	3.5	4.2	5.1	6.7
8	F	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	1.7	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
9	M	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	1.6	1.7	2.0	2.2	2.5	2.9	3.3	3.8	4.6	5.8	7.4
10	P	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	2.4	2.7	3.0	3.5	4.0	4.8	6.0	7.7
11	F	0.2	0.2	0.3	0.4	0.5	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	2.9	3.3	3.8	4.6	5.8	7.4
12	M	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	7.8	9.7
13	P	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
14	F	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
15	M	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
16	P	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
17	F	0.1	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	7.8	9.7
18	M	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
19	P	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
20	F	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
21	M	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
22	P	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
23	F	0.1	0.2	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
24	M	0.1	0.2	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
25	P	0.1	0.2	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
26	F	0.1	0.2	0.2	0.3	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
27	M	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	8.1	9.1	9.8	10.6	12.4	14.8
28	P	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	10.6	12.4	14.8	
29	F	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	10.6	12.4	14.8	
30	M	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	10.6	12.4	14.8	
31	P	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.6	3.3	4.1	4.9	5.6	6.2	6.9	7.6	8.5	9.7	10.3	11.7	13.6	16.2	
32	F	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	M	0.1	0.1	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	23.5	
34	P	0.1	0.1	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	24.4	
35	F	0.1	0.1	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	9.5	10.7	12.0	13.4	14.2	16.0	18.3	21.4	25.4	
36	M	0.1	0.1	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	26.4	
37	P	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	7.1	8.9	10.4	12.3	14.0	15.8	16.7	18.7	21.3	24.7	28.9	
38	F	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.5	5.8	7.2	9.1	10.9	12.8	14.7	16.7	17.7	19.7	22.4	25.9	29.9	
39	M	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	9.1	10.9	12.8	14.7	16.7	17.7	19.7	22.4	25.9	29.9	
40	P	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	9.2	11.2	13.3	15.4	17.5	18.6	20.8	23.6	27.1	31.4	
41	F	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	11.5	13.7	16.1	18.4	19.6	21.9	24.8	28.5	32.9	
42	M	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	29.9	34.6	
43	P	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	31.4	35.9	
44	F	0.1	0.1	0.2	0.3	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	37.4	
45	M	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	7.5	10.0	12.4	15.2	18.5	22.0	23.7	26.8	30.4	34.6	39.2	
46	P	0.1	0.1	0.2	0.3	0.4	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	41.0	
47	F	0.1	0.1	0.2	0.3	0.4	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	43.1	
48	M	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.1	7.0	10.0	12.9	16.0	19.8	24.2	26.5	30.7	35.2	40.1	45.1	
49	P	0.1	0.1	0.2	0.3	0.4	0.5	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	47.4	
50	F	0.1	0.1	0.2	0.3	0.4	0.5	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	44.1	50.0	

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	0.4	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4
2	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	1.3	1.5
3	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	1.1	1.2	1.4	1.6
4	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7
5	0.2	0.3	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	1.6	1.8
6	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
7	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	1.8	2.0
8	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	1.9	2.1
9	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	2.0	2.2
10	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	1.7	2.1	2.4
11	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
12	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
13	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
14	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
15	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
16	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
17	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
18	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
19	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
20	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2	2.5
21	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
22	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
23	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
24	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
25	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
26	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
27	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
28	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.2

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	2.5	3.6	5.1	7.4	10.3	14.2	19.6	27.9	32.8	42.3	53.7	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	0.1	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	0.1	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	13.2	18.5	25.9	30.7	42.3	56.4	71.9	
66	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	3.2	4.5	6.6	9.2	12.9	18.2	25.5	30.1	41.7	56.7	72.6	
67	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	4.4	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	0.1	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	0.1	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	12.1	17.2	24.4	28.8	39.4	55.9	75.2	
70	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	4.1	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	0.1	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	0.1	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	
73	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.6	7.9	11.2	15.9	22.8	27.1	37.2	52.2	74.2	
74	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.7	5.5	7.7	10.9	15.5	22.3	26.6	36.7	51.4	72.9	
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	1.3	1.8	2.5	3.6	5.4	7.5	10.7	15.2	21.9	26.2	36.2	50.7	71.5	
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	1.3	1.8	2.5	3.5	5.2	7.4	10.5	14.9	21.5	25.7	35.6	50.0	70.4	
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	1.3	1.8	2.4	3.4	5.1	7.2	10.2	14.6	21.1	25.2	35.0	49.4	69.4	
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	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.6	24.7	34.4	48.8	68.4	
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	1.2	1.7	2.4	3.3	4.8	6.9	9.8	14.1	20.2	24.2	33.8	48.1	67.5	
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	1.2	1.7	2.3	3.2	4.7	6.8	9.6	13.7	19.8	23.8	33.2	47.3	66.6
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	1.7	2.3	3.1	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	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.3	3.1	4.5	6.4	9.2	13.1	19.1	22.8	31.9	45.8	65.1
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	1.7	2.2	3.1	4.4	6.3	9.0	12.8	18.7	22.4	31.3	45.0	64.1
84	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	3.0	4.3	6.1	8.8	12.6	18.3	22.0	30.7	44.2	63.2
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	2.2	3.0	4.3	6.0	8.6	12.4	17.9	21.6	30.1	43.4	62.2
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	2.2	2.9	4.2	5.9	8.3	12.1	17.5	21.1	29.6	42.6	61.2
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	2.2	2.9	4.1	5.8	8.1	11.8	17.1	20.6	29.0	41.8	60.1
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	2.2	2.9	4.1	5.8	8.0	11.6	16.8	20.2	28.5	41.0	59.1
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	2.1	3.6	5.3	7.5	10.8	15.8	19.1	26.7	38.9	56.0	
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	2.1	3.5	5.2	7.4	10.5	15.5	18.7	26.2	38.2	55.0	
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	1.7	2.1	3.4	5.1	7.2	10.3	15.1	18.3	25.7	37.4	54.0	
92	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	3.3	5.0	7.1	10.1	14.8	17.9	25.2	36.6	53.0	
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	1.1	1.3	1.7	2.1	3.2	4.9	7.0	9.9	14.4	17.5	24.8	35.8	52.1	
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	3.1	4.8	6.9	9.7	14.1	17.0	24.3	35.1	51.3	
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	3.0	4.7	6.8	9.6	13.8	16.7	23.8	34.4	50.3	
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	1.8	2.2	2.9	4.6	6.7	9.4	13.6	16.3	23.2	33.8	49.2	
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	4.5	6.6	9.3	13.3	16.0	22.7	33.3	48.2	
98	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	2.7	4.4	6.5	9.2	13.1	15.7	22.2	32.6	47.2	
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	2.6	4.3	6.4	9.1	12.8	15.4	22.1	32.3	47.2	
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	2.6	4.3	6.4	9.1	12.8	15.4	22.1	32.3	47.2	

T E M P E 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 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	37.9	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		
M	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		
I	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		
T	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		
R	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		
A	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		
E	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		
P	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		
M	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		
P	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	6.6	9.3	13.0	18.2	25.5	30.2	41.6	55.2		
E	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	17.9	25.1	29.7	41.1	55.6		
R	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		
A	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		
T	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		
U	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		
F	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		
I	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		
S	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		
D	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		
G	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		
R	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		
E	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		
S	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		
S	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		
F	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		
A	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		
H	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		
M	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		
N	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		
F	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		
N	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		
H	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		
F	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	15.5	18.7	26.2	38.1		
I	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		
T	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		
I	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		
T	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	1.6	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	1.0	1.6	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	1.6	2.1	2.7	3.7	4.9	6.8	9.6	13.8	16.7	23.8	34.5		
E	95	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.6	2.1	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		
I	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		
T	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	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
4	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	1.2	1.4	1.6
5	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	1.2	1.4	1.5
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	1.2	1.4	1.5
7	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	1.2	1.4	1.5
8	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	1.2	1.4	1.5
9	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	1.2	1.4	1.5
10	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	1.2	1.4	1.5
11	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	1.2	1.4	1.5
12	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
13	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
14	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
15	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
16	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
17	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
18	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
19	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
20	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
21	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
22	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
23	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
24	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
25	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
26	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
27	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
28	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
29	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
30	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
31	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
32	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
33	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
35	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
36	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
37	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
38	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
39	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
40	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
41	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
46	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.5

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	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	3.5	4.9	7.1	9.9	13.6	18.8	26.7	31.6	41.0	52.1	65.3	
59	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	2.4	3.4	4.7	6.9	9.6	13.4	18.5	26.1	31.2	41.2	52.8	66.5	
60	P	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	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	2.3	3.2	4.5	6.6	9.2	12.9	18.0	25.2	29.9	41.1	54.1	68.8	
62	R	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	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	1.5	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	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	2.1	3.0	4.2	6.2	8.6	12.1	17.1	24.1	28.4	39.0	54.7	71.5	
65	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	1.4	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	P	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	F	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	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	1.9	2.7	3.8	5.6	7.9	11.1	15.8	22.6	26.8	36.6	51.6	72.7	
69	A	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	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	1.3	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	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	1.3	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	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	2.4	3.4	5.1	7.2	10.2	14.5	20.9	25.0	34.6	48.5	68.4	
73	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	1.7	2.4	3.3	5.0	7.0	10.0	14.2	20.5	24.5	34.0	47.8	67.3	
74	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	1.2	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	A	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	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	1.6	2.2	3.1	4.6	6.6	9.3	13.3	19.3	23.1	32.2	45.9	64.5	
77	M	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	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	1.2	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	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	1.2	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	R	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	A	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	4.1	5.8	8.3	12.0	17.3	20.9	29.2	42.0	60.2	
82	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	4.0	5.7	8.1	11.7	16.9	20.4	28.6	41.3	59.2	
83	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	4.0	5.6	7.9	11.5	16.6	20.0	28.1	40.5	58.2	
84	P	0.1	0.1	0.2	0.2	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	F	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	3.9	5.4	7.6	10.9	16.0	19.1	27.1	39.0	56.2	
86	R	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	A	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	E	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	M	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	P	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	F	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	R	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	3.6	4.8	6.7	9.4	13.6	16.5	23.5	33.9	49.5	
93	A	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	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	0.2	0.2	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	0.2	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	3.6	4.8	6.4	9.0	12.9	15.4	22.0	32.2	46.6	
96	P	0.1	0.1	0.2	0.2	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	0.2	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	3.6	4.7	6.3	8.7	12.4	14.9	21.0	30.9	44.8	
98	R	0.1	0.1	0.2	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	3.6	4.7	6.3	8.6	12.2	14.6	20.5	30.2	44.0	
99	A	0.1	0.1	0.2	0.2	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	6.3	8.						

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	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.6	2.9	3.6	4.6	6.2	
2	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	1.7	2.0	2.3	2.8	3.1	3.8	4.8	6.4	
3	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	1.6	1.8	2.1	2.5	2.9	3.2	3.9	5.0	6.6	
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	2.7	3.3	3.6	4.3	5.4	7.1	
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	1.4	1.5	1.7	2.0	2.2	2.5	2.9	3.4	4.5	5.7	7.4	
6	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	2.1	2.3	2.7	3.1	3.6	4.0	4.7	5.9	7.6	
7	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	2.8	3.3	3.8	4.2	5.0	6.2	7.9	
9	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	2.6	3.0	3.4	4.0	4.4	5.2	6.5	8.2	
10	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	4.3	4.6	5.5	6.8	8.6	
11	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9	
12	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3	
13	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	5.4	6.4	7.7	9.7	
14	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	6.7	8.1	10.1	
15	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.6	6.1	7.0	8.5	10.5	
16	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	3.0	3.3	3.7	4.1	4.6	5.2	5.9	6.4	7.4	8.9	10.9	
17	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.7	7.8	9.3	11.4	
18	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	3.4	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9	
19	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.8	2.3	2.7	3.2	3.6	4.0	4.4	4.9	5.4	6.1	7.0	7.5	8.7	10.3	12.5	
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	3.3	3.8	4.2	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.8	13.0	
21	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.9	3.4	4.0	4.5	5.0	5.5	6.1	6.9	7.8	8.4	9.6	11.3	13.6	
22	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.6	4.2	4.7	5.3	5.9	6.5	7.3	8.3	8.9	10.1	11.9	14.3	
23	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	1.9	2.4	3.0	3.7	4.3	5.0	5.6	6.2	6.9	7.7	8.8	9.4	10.7	12.5	14.9	
24	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	6.0	6.6	7.3	8.2	9.3	9.9	11.3	13.1	15.7	
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.7	5.5	6.3	7.1	7.8	8.7	9.8	10.5	11.9	13.8	16.4	
26	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	5.7	6.6	7.4	8.3	9.2	10.4	11.1	12.5	14.5	17.2	
27	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	5.9	7.0	7.8	8.8	9.8	11.0	11.7	13.2	15.3	18.0	
28	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.7	2.4	3.2	4.2	5.0	6.1	7.3	8.3	9.3	10.4	11.6	12.4	13.9	16.1	18.9	
29	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.4	3.2	4.2	5.1	6.2	7.5	8.7	9.8	11.0	12.3	13.1	14.7	16.9	19.6	
30	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	6.4	7.8	9.1	10.3	11.6	13.0	13.8	15.5	17.8	20.8	
31	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	5.3	6.5	8.0	9.5	10.9	12.3	13.8	14.6	16.4	18.8	21.8	
32	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	5.4	6.7	8.3	9.8	11.4	12.9	14.6	15.4	17.3	19.8	22.9	
33	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	5.4	6.8	8.5	10.2	11.9	13.6	15.4	16.3	18.2	20.8	24.1	
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.2	5.5	7.0	8.6	10.5	12.4	14.3	16.3	17.3	19.3	21.9	25.3	
35	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	5.3	7.0	8.8	10.8	12.8	15.0	17.1	18.3	20.3	23.1	26.6	
36	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.9	5.4	7.0	8.9	11.0	13.2	15.6	18.0	19.2	21.5	24.3	27.9	
37	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.9	5.3	7.1	9.0	11.2	13.6	16.2	18.8	20.1	22.7	25.6	29.4	
38	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	7.1	9.2	11.6	14.3	17.3	20.6	22.1	25.1	28.5	32.5	
39	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	5.1	7.0	9.3	11.6	14.5	17.8	21.4	23.1	26.3	30.0	34.2	
40	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.4	11.9	14.8	18.2	22.1	24.0	27.5	31.6	35.9	
41	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	9.4	11.9	14.8	18.2	22.1	24.0	27.5	31.6	35.9	
42	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	6.5	9.3	12.1	15.1	18.6	22.8	24.9	28.8	33.1	37.8	
43	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	6.4	9.2	12.2	15.3	19.0	23.4	25.7	30.1	34.7	39.8	
44	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.6	6.3	9.0	12.2	15.3	19.3	24.0	26.5	31.2	36.3	41.8	
45	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	6.2	8.8	12.1	15.6	19.7	24.5	27.2	32.3	37.9	43.8	
46	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	4.4	6.0	8.6	11.9	15.7	19.9	25.0	27.8	33.3	39.6	45.8	
47	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.1	4.3	5.9	8.4	11.6	15.7	20.2	25.5	28.4	34.3	41.1	47.8	
48	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	5.8	8.2	11.3	15.7	20.4	25.9	28.9	35.2	42.5	50.0	
49	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	4.1	5.7	8.1	11.1	15.4	20.6	26.3	29.4	36.0	43.8	52.1	
50	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	5.6	8.0	10.9	15.1	20.6	26.6	29.9	36.7	45.1	54.1	

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	4.7	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	0.5	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	0.6	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	0.9	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		
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	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	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		
8	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		
9	0.1	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		
10	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		
11	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		
12	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
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		
25	0.1	0.1	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.1	3.9	4.8	5.6	6.6	7.4	8.2	9.2	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		
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		
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	18.8		
29	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.2	5.2	6.3	7.8	9.1	10.3	11.6	13.0	14.6	16.3	18.8		
30	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	6.5	8.0	9.4	10.8	12.3	13.8	15.3	17.0	20.8		
31	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	6.4	8.2	9.8	11.4	12.9	14.6	15.4	17.3	19.7		
32	0.1	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	11.9	13.6	15.3	16.3	18.2	20.8		
33	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	5.2	7.0	9.0	11.1	13.5	16.1	18.8	20.1	22.7	25.6		
34	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	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0		
35	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.2	11.5	14.1	17.2	20.5	22.1	25.1	28.5		
36	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	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0		
37	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	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0		
38	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	9.3	11.8	14.7	17.7	21.3	24.0	27.5	31.6		
39	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	6.6	9.3	11.8	14.7	17.7	21.3	24.0	27.5	31.6		
40	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	6.4	9.2	11.9	14.9	18.5	22.7	24.8	28.8	33.1		
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.6	6.3	9.0	12.0	15.1	18.8	23.3	25.6	30.0	34.7		
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	3.3	4.5	6.1	8.8	12.0	15.1	19.2	23.0	26.3	31.1	36.3		
43	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	4.4	6.0	8.6	11.9	15.5	19.5	24.3	27.0	32.2	38.0		
44	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	4.4	6.0	8.6	11.9	15.5	19.5	24.3	27.0	32.2	38.0		
45	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	4.2	5.8	8.2	11.7	15.5	19.8	24.8	27.6	33.2	39.5		
46	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	5.8	8.2	11.3	15.5	20.0	25.2	28.1	34.1	41.0		
47	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	5.7	8.1	11.1	15.4	20.2	25.7	28.7	35.0	42.4	50.9		
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	4.0	5.6	7.9	10.9	15.1	20.3	26.0	29.2	35.7	43.7	52.1		
49	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	20.3	26.4	29.6	36.4	44.9	54.0		
50	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	14.4	20.2	26.6	30.0	37.1	46.0	55.8		

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 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	1.4	2.1	2.9	4.2	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	2.0	2.9	4.1	6.0	8.4	11.7	16.5	23.2	27.4	37.7	52.3	67.9	
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	69.5	
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	0.1	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	6.9	9.8	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	23.5	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	0.6	0.7	0.9	1.1	1.5	2.0	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	0.6	0.7	0.9	1.2	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	0.6	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	0.6	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	0.9	1.2	1.5	1.9	2.6	3.5	4.8	6.5	9.5	13.9	16.8	23.7	34.5	49.8	68.9
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	68.9
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	68.9
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	3.5	4.6	6.3	8.9	13.0	15.7	22.3	32.3	47.2	67.2
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	8.8	12.7	15.3	21.9	31.7	46.3	66.3
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	3.4	4.6	6.2	8.6	12.5	15.0	21.4	31.1	45.3	65.3
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	64.3
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	63.4
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	62.6
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	61.9
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	2.1	2.7	3.4	4.5	6.0	8.1	11.4	13.6	19.2	28.1	41.2	61.2
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	60.4
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	59.6
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	58.8
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	57.9
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	56.6
100	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.7																

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	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7	
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.2	1.4	1.5	1.8	2.0	2.3	2.6	3.1	3.4	4.2	5.3	6.9	
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	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2	
4	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	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	
6	0.2	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	
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	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	4.4	4.7	5.6	6.9	
8	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	
9	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	2.4	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.5	9.4	
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	2.4	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.5	9.4	
11	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.4	5.1	5.6	6.5	7.9	9.8	
12	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.7	5.4	5.9	6.8	8.3	10.2	
13	0.1	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	3.5	3.9	4.4	5.0	5.6	6.2	7.2	8.7	10.7	
14	0.1	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	3.5	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	
15	0.1	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	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	
16	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.6	4.0	4.5	5.0	5.6	6.4	6.9	8.0	9.5	11.7	
17	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	4.8	5.3	6.0	6.8	7.3	8.4	10.0	12.2	
18	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.6	6.3	7.2	7.7	8.9	10.5	12.8	
19	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	3.9	4.3	4.9	5.4	6.0	6.7	7.6	8.2	9.4	11.1	13.4	
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	2.9	3.5	4.1	4.6	5.2	5.7	6.4	7.1	8.1	8.7	9.9	11.6	14.0	
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.4	3.0	3.7	4.4	5.1	5.8	6.5	7.2	8.0	9.1	9.7	11.0	12.9	15.4	
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.8	4.5	5.3	6.1	6.9	7.6	8.5	9.6	10.3	11.6	13.6	16.1	
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.4	3.1	3.8	4.7	5.5	6.3	7.1	8.0	9.0	10.2	10.8	12.3	14.3	16.9	
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.1	4.0	4.9	5.9	7.1	8.5	9.6	10.8	11.5	13.0	15.0	17.7	20.5	
25	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.1	4.0	5.0	6.1	7.4	8.4	9.5	10.8	12.1	14.1	16.1	17.1	19.1	21.7	
26	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.1	4.0	5.1	6.2	7.6	8.6	9.9	10.1	11.5	12.8	13.6	15.3	17.6	20.5	
27	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.0	4.1	5.2	6.3	7.9	9.3	10.7	12.1	13.4	14.4	16.2	18.5	21.6	22.7	
28	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.1	5.2	6.5	8.1	9.6	11.2	12.7	14.4	15.3	17.1	19.5	22.7	23.8	
29	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.0	5.3	6.6	8.2	9.9	11.7	13.4	15.3	16.1	18.0	20.6	23.7	25.0	
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.3	6.6	8.4	10.2	12.1	14.1	16.1	17.1	19.1	21.7	25.0	26.3	
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	4.0	5.3	6.7	8.6	10.5	12.5	14.7	16.9	18.0	20.1	22.9	26.3	27.7	
32	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	6.8	8.7	10.7	12.9	15.3	17.7	19.0	21.3	24.1	27.7	29.2	
33	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	6.8	8.7	10.7	12.9	15.3	17.7	19.0	21.3	24.1	27.7	29.2	
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.6	3.7	5.1	6.8	8.8	10.9	13.3	15.9	18.6	19.9	22.5	25.5	29.2	30.7	
35	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.6	3.6	4.9	6.7	8.9	11.1	13.6	16.4	19.5	20.9	23.7	26.9	30.7	32.3	
36	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.7	9.0	11.3	13.9	16.9	20.3	21.9	24.8	28.3	32.3	34.0	
37	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.5	9.0	11.4	14.2	17.4	21.0	22.8	26.1	29.9	34.0	37.7	39.7	
38	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.6	6.3	8.9	11.4	14.6	17.8	21.7	23.7	27.3	31.4	35.8	41.6	43.6	
39	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.5	6.2	8.9	11.4	14.6	17.8	21.7	23.7	27.3	31.4	35.8	41.6	43.6	
40	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.4	6.1	8.7	11.7	14.8	18.1	22.9	25.2	29.7	34.5	39.7	45.6	47.7	
41	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.3	5.9	8.5	11.6	15.0	18.6	23.4	25.9	30.8	36.1	41.6	47.7	49.8	
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.1	4.3	5.8	8.3	11.5	15.1	19.1	23.9	26.6	31.8	37.7	43.6	49.8	51.5	
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.7	8.1	11.2	15.1	19.4	24.4	27.1	32.7	39.2	45.6	51.5	53.5	
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.6	7.9	10.9	15.1	19.6	24.8	27.7	33.6	40.6	47.7	53.5	55.3	
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.6	7.9	10.9	15.1	19.6	24.8	27.7	33.6	40.6	47.7	53.5	55.3	
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.9	5.4	7.7	10.7	14.9	19.8	25.2	28.2	34.4	41.9	49.8	55.3	56.9	
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.2	7.5	10.3	14.2	19.7	25.8	29.0	35.8	44.3	53.5	55.3	56.9	
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.6	3.7	5.1	7.4	10.1	13.9	19.5	26.1	29.4	36.5	45.4	55.3	56.9	58.4	
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.6	5.0	7.2	9.9	13.6	19.1	26.2	29.8	37.0	46.3	56.9	58.4	60.0	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.5	4.9	7.1	9.8	13.4	18.6	26.2	30.0	37.6	47.2	58.4	60.0	61.6	

		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	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.9	9.6	13.1	18.3	25.9	30.0	38.1	48.1	59.9
52	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	4.6	6.7	9.4	12.9	17.9	25.5	29.9	38.5	48.9	61.2
53	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.6	9.2	12.7	17.6	24.9	29.6	38.8	49.6	62.3
54	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	4.4	6.4	9.0	12.5	17.3	24.4	29.1	38.9	50.2	63.4
55	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	8.8	12.2	17.0	23.9	28.4	38.0	50.8	64.5
56	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	3.0	4.2	6.1	8.6	12.0	16.8	23.5	27.9	38.5	51.3	65.5
57	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	4.1	6.0	8.4	11.7	16.5	23.1	27.4	37.8	51.6	66.4
58	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	4.0	5.8	8.2	11.5	16.2	22.8	26.9	36.9	51.6	67.2
59	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	5.7	8.0	11.2	15.9	22.4	26.5	36.3	51.3	67.9
60	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	3.8	5.5	7.8	11.0	15.5	22.1	26.1	35.7	50.7	68.4
61	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	3.7	5.4	7.6	10.7	15.2	21.7	25.7	35.1	49.7	68.6
62	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	1.8	2.5	3.6	5.3	7.5	10.5	14.9	21.3	25.3	34.5	48.7	68.5
63	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	3.5	5.1	7.3	10.2	14.6	20.9	24.9	34.0	47.8	67.9
64	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	3.4	5.0	7.1	10.0	14.3	20.5	24.4	33.5	47.0	66.9
65	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.2	4.8	6.7	9.6	13.6	19.6	23.5	32.5	45.6	64.4
66	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	1.6	2.2	3.1	4.5	6.6	9.3	13.3	19.2	23.0	31.9	45.0	63.3
67	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.1	1.6	2.2	3.1	4.4	6.3	8.9	12.8	18.4	22.1	30.8	43.8	61.4
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	1.1												

TEMPERATURE • DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 2% 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
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
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
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	2.0	2.3
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
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4
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	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
9	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	2.0	2.3	2.5	2.7	3.1
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
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
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
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	2.6	2.7	3.0	3.7
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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	E	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	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	3.2	4.4	6.5	9.0	12.5	17.3	24.4	29.2	38.4	49.1	61.8
53	S	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	G	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	G	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	R	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	A	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	P	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	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	1.8	2.6	3.7	5.4	7.7	10.8	15.3	21.7	25.6	35.0	49.8	67.6
60	E	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	M	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	2.5	3.5	5.1	7.3	10.3	14.6	20.9	24.9	33.9	47.8	67.5
62	E	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	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	1.7	2.3	3.3	4.9	6.9	9.8	14.0	20.1	23.9	32.9	46.2	65.7
64	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.3	3.2	4.8	6.8	9.6	13.7	19.7	23.5	32.5	45.5	64.3
65	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.6	9.4	13.4	19.3	23.0	31.9	44.8	63.2
66	A	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	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	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	1.5	2.1	3.0	4.4	6.3	8.9	12.8	18.4	22.1	30.7	43.7	61.2
68	U	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	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	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	2.9	4.2	6.0	8.5	12.2	17.7	21.2	29.6	42.2	59.5
70	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	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	1.5	2.0	2.8	4.0	5.7	8.2	11.6	17.0	20.3	28.4	40.8	58.0
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	1.5	2.0	2.7	3.9	5.6	8.0	11.4	16.6	19.9	27.8	40.0	57.1
73	D	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	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	1.5	1.9	2.6	3.8	5.3	7.6	10.9	15.8	19.1	26.7	38.5	55.2
75	G	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	G	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	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	1.9	2.5	3.6	5.0	7.0	10.2	14.8	17.8	25.2	36.3	52.3
78	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	1.9	2.5	3.5	4.9	6.9	9.9	14.6	17.4	24.6	35.6	51.4
79	S	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	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	1.5	1.9	2.5	3.4	4.7	6.6	9.4	13.9	16.8	23.5	34.3	49.4
81	F	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	2.5	3.4	4.7	6.5	9.2	13.6	16.4	23.0	33.6	48.5
82	A	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	2.5	3.4	4.6	6.4	9.1	13.2	16.0	22.6	32.9	47.6
83	M	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	2.5	3.4	4.5	6.3	8.9	12.9	15.7	22.2	32.7	46.7
84	P	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	2.5	3.4	4.5	6.2	8.7	12.6	15.3	21.7	31.5	45.9
85	E	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	2.5	3.3	4.4	6.1	8.5	12.4	14.9	21.3	30.8	45.1
86	N	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	4.4	6.0	8.4	12.1	14.6	20.8	30.3	44.1
87	H	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	4.4	5.9	8.3	11.9	14.3	20.3	29.8	43.2
88	E	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	4.4	5.8	8.2	11.7	14.0	19.8	29.2	42.3
89	I	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	4.4	5.8	8.0	11.5	13.7	19.4	28.6	41.5
90	T	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	4.3	5.8	7.9	11.3	13.5	19.0	27.9	40.7
91	E	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	4.3	5.8	7.8	11.1	13.2	18.6	27.3	40.1
92	H	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	5.8	7.8	10.9	13.0	18.3	26.7	39.3
93	E	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	5.7	7.7	10.6	12.8	17.9	26.1	38.5
94	I	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	5.7	7.7	10.7	12.7	17.6	25.6	37.7
95	E	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	2.2	2.7	3.5	4.4	5.7	7.6	10.5	12.5	17.3	25.1	36.9
96	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.2	2.7	3.5	4.4	5.7	7.6	10.4	12.4	17.1	24.6	36.1
97	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.6	10.4	12.2	16.8	24.2	35.3
98	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.7	7.6	10.3	12.1	16.6	23.8	34.6
99	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.8	3.6	4.6	5.8	7.6	10.3	12.0	16.4	23.4	33.9
100	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.3	2.8	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	0.2	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	0.5	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	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	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	0.5	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	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	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	0.5	0.6	0.8	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	4.6	5.4	6.7	8.5
7	0.1	0.2	0.3	0.4	0.5	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	0.5	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	0.5	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
10	0.1	0.2	0.3	0.3	0.5	0.5	0.7	0.8	1.1	1.3	1.6	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	0.5	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	0.5	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	0.5	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	0.5	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	0.5	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	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.4	4.7	5.2	5.8	6.2	6.9	7.9	8.4	9.6	11.4	13.7

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	3.5
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	1.9	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	3.4
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	1.9	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	0.5	0.6	0.8	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	0.5	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	0.2	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, 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	0.2	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	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.1
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	2.0	2.2	2.6	3.0	3.5	3.8	4.6	5.7	7.4
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	1.5	1.8	2.0	2.1	2.4	2.7	3.1	3.5	3.7	4.0	4.8	6.0
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.1	1.2	1.3	1.5	1.6	1.9	2.1	2.4	2.7	3.1	3.5	3.9	4.2	5.1	6.3	8.0
5	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.3	6.6	8.3
6	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.1	3.5	4.0	4.6	5.0	5.9	7.2	9.0
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.2	1.4	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
8	0.1	0.2	0.3	0.3	0.5	0.6	0.8	1.0	1.2	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
9	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.3	1.3	1.6	1.8	2.1	2.3	2.5	2.8	3.1	3.5	3.9	4.5	5.2	5.6	6.5	7.9	9.8
10	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.3	1.6	1.9	2.2	2.5	2.7	3.0	3.4	3.7	4.2	4.7	5.5	5.9	6.9	8.3	10.3
11	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.3	1.7	2.0	2.3	2.6	2.9	3.2	3.6	4.0	4.5	5.0	5.8	6.2	7.3	8.7	10.7
12	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.3	1.7	2.0	2.4	2.8	3.1	3.4	3.8	4.2	4.7	5.4	6.1	6.6	7.7	9.1	11.2
13	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.4	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	5.0	5.7	6.5	7.0	8.1	9.4	11.7
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.4	1.8	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
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.4	1.8	2.2	2.7	3.2	3.7	4.1	4.6	5.1	5.7	6.4	7.3	7.8	9.0	10.6	12.9
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.4	1.8	2.2	2.8	3.3	3.9	4.4	4.9	5.5	6.1	6.8	7.7	8.3	9.5	11.2	13.5
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.3	1.8	2.3	2.9	3.4	4.1	4.6	5.3	5.8	6.5	7.2	8.2	8.8	10.0	11.8	14.1
18	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.3	1.8	2.3	2.9	3.4	4.2	4.9	5.6	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.8
19	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.2	1.8	2.3	3.0	3.7	4.4	5.1	5.9	6.6	7.3	8.2	9.2	9.8	11.2	13.0	15.5
20	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.2	1.7	2.3	3.0	3.8	4.6	5.5	6.5	7.4	8.3	9.2	10.4	11.0	12.5	14.5	17.1
21	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.2	1.7	2.3	3.0	3.8	4.6	5.5	6.5	7.4	8.3	9.2	10.4	11.0	12.5	14.5	17.1
22	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.2	1.6	2.2	3.0	3.9	4.8	5.9	7.1	8.2	9.3	10.4	11.0	12.4	13.9	16.1	18.9
23	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.6	2.2	3.0	4.0	4.9	6.0	7.4	8.6	9.8	11.0	12.4	13.1	14.7	17.0	19.8
24	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.1	2.9	4.0	5.0	6.1	7.6	9.0	10.3	11.3	13.9	14.7	16.5	18.9	20.9
25	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.1	1.5	2.0	2.9	4.0	5.1	6.3	7.8	9.3	10.8	12.3	13.9	15.6	17.9	20.9	21.9
26	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.1	1.4	2.0	2.8	3.8	5.1	6.4	8.0	9.6	11.3	12.9	14.8	15.6	17.4	19.9	23.1
27	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.1	1.4	2.0	2.7	3.8	5.1	6.5	8.1	9.9	11.7	13.6	15.5	16.5	18.5	21.0	24.3
28	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.1	1.4	1.9	2.6	3.7	5.0	6.4	8.3	10.1	12.1	14.3	16.4	17.5	19.5	22.2	25.6
29	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.1	1.3	1.9	2.6	3.6	5.0	6.4	8.4	10.4	12.5	14.9	17.2	18.4	20.7	23.4	26.9
30	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.3	1.8	2.5	3.5	4.9	6.4	8.6	10.6	12.9	15.4	18.1	19.3	21.9	24.7	28.3
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.3	1.8	2.5	3.5	4.8	6.4	8.7	10.8	13.2	16.0	18.9	20.3	23.0	26.1	29.9
32	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.2	1.7	2.4	3.4	4.7	6.5	8.7	10.9	13.5	16.4	19.7	21.3	24.2	27.6	31.5
33	0.1	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	4.5	6.3	8.7	11.1	13.7	16.9	20.4	22.2	25.4	29.1	33.1
34	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.2	1.6	2.3	3.3	4.4	6.1	8.7	11.2	14.0	17.3	21.1	23.0	26.6	30.6	34.9
35	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.1	1.6	2.2	3.2	4.4	6.0	8.4	11.3	14.2	17.6	21.7	23.8	27.8	32.1	36.8
36	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.1	1.5	2.2	3.1	4.3	5.8	8.4	11.3	14.4	17.9	22.3	24.5	28.9	33.6	38.8
37	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.1	1.5	2.2	3.1	4.3	5.8	8.4	11.2	14.5	18.2	22.8	25.2	30.0	35.2	40.7
38	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.1	1.5	2.1	3.0	4.2	5.7	8.1	11.2	14.6	18.5	23.2	25.8	30.9	36.8	42.6
39	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.0	1.4	2.0	2.9	4.1	5.6	8.0	11.1	14.6	18.8	23.6	26.4	31.9	38.2	44.6
40	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.0	1.4	2.0	2.9	4.0	5.5	7.8	10.8	14.6	18.8	23.6	26.4	31.9	38.2	44.6
41	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.0	1.4	1.9	2.8	3.9	5.4	7.6	10.5	14.5	19.0	24.1	26.9	32.7	39.6	46.6
42	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	7.5	10.3	14.3	19.1	24.4	27.4	33.5	40.9	48.7	58.5
43	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	5.1	7.4	10.1	13.9	19.0	25.0	28.2	34.8	42.0	50.5	60.6
44	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	5.0	7.2	9.9	13.6	19.0	25.0	28.2	34.8	42.0	50.5	60.6
45	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	9.7	13.3	18.7	25.2	28.5	35.4	44.2	54.0	65.5
46	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	6.9	9.5	13.1	18.3	25.2	28.6	36.0	45.1	55.5	67.0
47	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	3.3	4.7	6.7	9.4	12.8	17.8	25.1	29.0	36.5	45.9	57.0	69.5
48	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	6.6	9.2	12.6	17.5	24.9	29.0	36.9	46.7	58.4	70.9
49	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	9.0	12.4	17.2	24.4	28.8	37.3	47.5	59.5	72.5
50	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	12.2	16.8	23.8	28.4	37.5	48.1	60.6	74.1

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	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.0	5.8	8.2	11.8	17.0	20.4	28.5	40.8	57.6
68	0.1	0.1	0.1	0.2	0.2	0.3	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	20.0	28.0	40.1	56.9
69	0.1	0.1	0.1	0.2	0.2	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	0.4	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	0.3	0.4	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	0.3	0.4	0.5	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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.3	4.4	5.9	8.4	12.4	15.0	21.3	30.9	45.0
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	3.3	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	0.3	0.4	0.5	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	1.5	1.9	2.4	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	7.7	10.8	13.0	18.2	26.8	39.2
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	7.6	10.7	12.7	17.9	26.2	38.5
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	4.3	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	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	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	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.9	11.5	15.4	21.7	31.0	

T E M P F R A T U R E D E G R E E S F A R H 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 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	1.5	1.6	1.8	2.1	2.3	2.7	3.1	3.6	3.9	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	2.1	2.4	2.7	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	1.8	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	0.6	0.8	1.1	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	0.6	0.8	1.1	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	0.9	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	0.9	1.3	1.8	2.3	2.9	3.6	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	1.0	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	2.6	3.6	4.7	5.9	7.4	9.3	11.0	12.0	14.1	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	0.9	1.3	1.9	2.6	3.6	4.7	5.9	7.4	9.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	26.6
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.5	12.7	15.2	17.8	19.1	21.6	24.4	28.0
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.6	5.8	7.3	8.5	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5

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	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.5	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	2.6	2.9	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	5.7	6.6	8.0	9.9
7	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.6	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	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4
9	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7	4.2	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9
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	2.8	3.0	3.3	3.7	4.4	4.9	5.5	6.1	7.0	7.5	8.7	10.3	12.4
11	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.6	3.1	3.5	3.9	4.5	5.1	5.6	6.2	6.9	7.9	8.4	9.7	11.4	13.7
12	0.1	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	4.0	4.7	5.4	6.0	6.6	7.4	8.4	8.9	10.2	12.0	14.3
13	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	4.2	4.9	5.7	6.3	7.0	7.8	8.9	9.5	10.8	12.6	15.0
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	3.9	4.5	5.2	6.0	6.7	7.5	8.3	9.4	10.0	11.4	13.3	15.8
15	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	4.1	4.7	5.4	6.3	7.1	8.0	8.9	10.0	10.6	12.1	14.0	16.4
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.0	3.7	4.4	5.2	6.0	6.9	7.9	8.9	10.0	11.2	12.0	13.5	15.6	18.3
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.6	2.2	3.0	3.8	4.7	5.7	6.9	7.9	8.9	10.0	11.2	12.0	13.5	15.6	18.3	
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.6	2.1	3.0	3.9	4.8	5.9	7.2	8.3	9.4	10.6	11.9	12.7	14.3	16.4	19.2	
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.1	2.9	3.9	4.9	6.0	7.4	8.7	10.0	11.3	12.7	13.4	15.1	17.3	20.2	
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	0.8	1.1	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	0.8	1.1	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	0.8	1.1	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	0.8	1.1	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	0.7	0.8	1.1	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	
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.1	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	

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	Y	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	Y	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	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	2.9	4.4	6.2	8.8	12.5	18.1	21.6	30.0	42.3	59.6	
62	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	2.0	2.9	4.3	6.1	8.5	12.3	17.7	21.2	29.5	41.7	58.6	
63	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	2.8	4.1	5.9	8.3	12.0	17.3	20.7	28.9	41.1	57.7	
64	E	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	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	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	5.6	8.0	11.4	16.4	19.8	27.7	39.7	56.1	
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	2.6	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	Y	0.1	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	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	4.6	6.4	9.2	13.5	16.3	22.9	33.2	48.0	
75	Y	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	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	3.2	4.4	6.1	8.8	12.9	15.6	21.9	32.0	46.1	
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	2.3	3.2	4.4	6.0	8.6	12.6	15.2	21.5	31.2	45.2	
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	3.2	4.3	5.9	8.4	12.3	14.8	21.1	30.5	44.4	
79	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	12.0	14.5	20.6	29.9	43.6	
80	Y	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	2.2	3.2	4.2	5.8	8.1	11.7	14.1	20.2	29.2	42.8	
81	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	2.3	3.1	4.2	5.7	8.0	11.5	13.8	19.7	28.7	41.8
82	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	2.3	3.1	4.2	5.6	7.8	11.3	13.5	19.2	28.2	40.9
83	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	2.4	3.1	4.2	5.5	7.7	11.0	13.3	18.8	27.6	40.1
84	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	5.5	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	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	5.5	7.4	10.5	12.5	17.6	25.8	37.9
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	5.5	7.3	10.4	12.3	17.3	25.2	37.2
88	Y	0.1	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	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	2.0	2.6	3.3	4.2	5.4	7.3	10.0	11.8	16.4	23.7	34.9
91	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	2.6	3.3	4.2	5.4	7.2	9.9	11.7	16.1	23.3	34.1
92	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	1.7	2.1	2.6	3.4	4.3	5.4	7.2	9.8	11.5	15.9	22.9	33.4
93	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	1.7	2.1	2.6	3.4	4.3	5.4	7.2	9.8	11.4	15.7	22.5	32.7
94	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	1.3	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	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	1.3	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	Y	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	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	2.2	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

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 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	1.3	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	2.3	2.6	2.9	3.2	3.7	4.3	4.7	5.5	6.8	8.6		
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	2.7	3.1	3.4	3.9	4.6	5.0	5.8	7.1	9.0		
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	2.9	3.3	3.7	4.2	4.8	5.2	6.1	7.5	9.4		
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	3.5	3.9	4.4	5.1	5.5	6.5	7.8	9.8		
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	0.5	0.7	0.9	1.3	1.5	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	0.5	0.7	0.9	1.3	1.5	1.8	2.2	2.8	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	0.5	0.7	0.9	1.2	1.5	1.8	2.3	2.9	3.6	4.3	5.1	5.9	6.6	7.3	8.2	9.2	9.6	11.2	13.0	15.5		
18	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.5	1.8	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	0.6	0.8	1.2	1.5	1.8	2.2	2.9	3.7	4.6	5.5	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	4.6	5.6	6.8	7.8	8.6	9.8	11.1	12.4	14.0	16.1	18.9		
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	2.0	2.8	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	2.7	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	1.9	2.7	3.8	5.0	6.2	7.9	9.5	11.2	13.0	14.6	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	6.3	8.0	9.8	11.7	13.6	15.6	16.7	18.4	21.1	24.4		
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	8.2	10.0	12.0	14.2	16.4	17.5	19.4	22.1	25.7		
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	3.6	4.9	6.4	8.3	10.2	12.4	14.8	17.3	18.5	20.8	23.6	27.1		
28	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.4	10.4	12.7	15.3	18.1	19.4	22.0	24.9	28.6	33.1		
29	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.7	7.2	8.5	10.6	13.0	15.6	18.0	19.4	22.1	26.4	30.1		
30	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.7	7.2	8.5	10.7	13.3	16.3	19.6	21.3	24.3	27.9	31.8		
31	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.4	5.7	7.2	8.5	10.9	13.5	16.7	20.3	22.1	25.5	29.3	33.5		
32	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.2	4.3	5.6	7.0	8.4	11.0	13.7	17.0	20.9	22.9	26.8	30.8	35.3		
33	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	5.6	7.0	8.4	11.0	13.7	17.0	20.9	22.9	26.8	30.8	35.3		
34	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	5.7	7.2	8.5	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
35	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	5.7	7.2	8.5	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
36	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
37	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
38	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	7.0	8.4	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	1.0	1.5	2.1	2.9	4.0	5.5	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
40	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
41	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
42	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
43	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
44	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
45	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
46	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
47	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
48	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
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	4.0	5.5	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		
50	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	7.0	8.4	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3		

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	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	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	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	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	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	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	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	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	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	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	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	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	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	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	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	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	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	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	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	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	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
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	3.1	4.1	5.5	7.7	11.1	13.3	19.0	27.8
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	3.1	4.1	5.5	7.6	10.9	13.1	18.5	27.2
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	4.1	5.4	7.5	10.7	12.8	18.1	26.6
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	1.5	1.9	2.4	3.1	4.1	5.4	7.4	10.5	12.6	17.7	26.0	38.0
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	4.1	5.4	7.3	10.4	12.4	17.4	25.4
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	3.2	4.1	5.4	7.2	10.2	12.2	17.0	24.9
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	3.2	4.1	5.3	7.2	10.1	12.0	16.7	24.3
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	5.3	7.2	10.0	11.8	16.4	23.8
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	5.3	7.2	9.8	11.7	16.1	23.4
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	7.1	9.7	11.5	15.9	23.0
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	5.3	7.1	9.7	11.4	15.7	22.5
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	7.1	9.7	11.3	15.5	22.1
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	7.1	9.7	11.2	15.3	21.8
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	9.6	11.2	15.1	21.5
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	9.6	11.2	14.9	21.2
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	2.2	2.8	3.6	4.5	5.7	7.2	9.5	11.1	14.8	20.7
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	3.6	4.5	5.7	7.3	9.5	11.1	14.8	20.4
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	7.4	9.5	11.1	14.7	20.2
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	3.7	4.6	5.8	7.4	9.6	11.1	14.7	20.1
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	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
TEMPERATURE, DEGREES FAHRENHEIT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.7	3.0
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.8	2.1	2.4	2.6	2.9	3.2
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
8	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
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	3.0	3.3	3.7
10	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	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	0.6	0.8	1.0	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	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
13	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
15	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
16	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
17	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
18	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
19	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
20	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
21	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
22	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
23	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
24	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
25	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
26	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
27	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
28	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
29	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
30	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
31	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
32	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
33	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
34	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
35	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
36	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
37	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
38	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
39	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
40	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
41	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
42	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
43	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
44	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
45	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
46	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
47	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
48	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
49	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6
50	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.8	2.2	2.7	3.2	3.6	4.1	4.6

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	1.2	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	4.0	5.3	7.1	9.6	11.4	15.7	22.6	33.4
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	1.6	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.8	2.2	2.8	3.6	4.6	5.8	7.4	9.5	10.9	14.5	19.8	28.1
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	1.8	2.2	2.8	3.7	4.6	5.8	7.4	9.6	10.9	14.4	19.8	27.8

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 31 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	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.2	1.7	2.5	5.1
E	52	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	5.0
M	53	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	4.8
P	54	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	4.7
E	55	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	2.2	4.6
R	56	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	4.5
A	57	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	4.4
T	58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.0	1.5	2.0	4.2
U	59	0.1	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	4.1
E	60	0.1	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	4.0
R	61	0.1	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	3.9
F	62	0.1	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	3.8
.	63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	3.7
D	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	1.4	1.8	3.6
E	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	1.8	3.5
G	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	1.8	3.4
R	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	1.8	3.4
E	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	1.8	3.3
S	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	3.3
F	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	3.2
H	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	3.2
I	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	3.1
T	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	3.1
E	74	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	3.1
S	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	3.1
F	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	3.1
H	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	3.1
I	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	3.0
T	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	3.0
E	80	0.1	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	3.0
S	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
F	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	2.3
H	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	2.3
I	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	2.4
T	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	2.4
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	1.5	1.9	2.4
S	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	2.4
F	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	2.4
H	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	2.4
I	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	2.4
T	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	2.4
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	1.5	1.9	2.4
S	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	2.4
F	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	1.5	1.9	2.4
H	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	1.5	1.9	2.4
I	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	1.5	1.9	2.4
T	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	1.5	1.9	2.4
E	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	1.5	1.9	2.4
S	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
F	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

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	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.7	3.0	3.4	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	2.2	2.4	2.6	2.9	3.3	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	2.6	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	0.3	0.4	0.5	0.7	1.0	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	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.2	2.7	3.2	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	0.3	0.4	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	0.3	0.4	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	0.3	0.4	0.6	0.8	1.1	1.4	1.9	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	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.2	2.9	3.7	4.6	5.5	6.4	7.3	8.2	9.1	10.3	10.9	12.3	14.3	16.9	
18	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.1	2.9	3.7	4.6	5.5	6.4	7.3	8.1	9.1	10.3	10.9	11.6	13.1	15.1	
19	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.1	2.9	3.7	4.6	5.5	6.4	7.3	8.1	9.1	10.3	10.9	11.6	13.1	15.1	
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
21	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
24	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
26	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
27	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
28	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
29	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
30	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
35	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
37	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
39	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
40	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
41	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
43	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
44	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
46	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
47	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
48	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
49	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	
50	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.5	2.0	2.4	3.0	3.7	4.4	5.2	6.0	6.9	7.7	8.7	9.7	10.9	12.3	14.7	

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 33 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	0.8	0.9	1.1	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	6.5	8.3			
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	2.9	3.3	3.7	4.3	4.7	5.6	6.8	8.6			
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	3.1	3.5	4.0	4.6	5.0	5.9	7.2	9.0			
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	3.3	3.7	4.2	4.9	5.3	6.2	7.5	9.4			
5	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	2.6	2.8	3.1	3.5	3.9	4.5	5.2	5.6	6.5	7.9	9.8			
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	2.5	2.7	3.0	3.4	3.7	4.2	4.8	5.5	5.9	6.9	8.3	10.3			
7	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			
8	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	4.3	4.8	5.4	6.2	6.6	7.7	9.2	11.2			
9	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	4.6	5.1	5.7	6.6	7.0	8.1	9.7	11.8			
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	3.0	3.5	3.9	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.2	12.3			
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	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9			
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	3.3	3.9	4.4	5.0	5.6	6.2	6.9	7.8	8.4	9.6	11.3	13.6			
13	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.7	2.2	2.7	3.4	4.0	4.7	5.3	5.9	6.6	7.3	8.3	8.9	10.1	11.9	14.3			
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	3.5	4.2	4.9	5.6	6.3	7.0	7.8	8.8	9.4	10.7	12.6	15.0			
15	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.8	3.5	4.3	5.1	6.0	6.7	7.5	8.3	9.4	10.0	11.4	13.2	15.7			
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	7.1	8.0	8.9	10.0	10.6	12.0	14.0	16.5			
17	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	4.5	5.4	6.5	7.5	8.4	9.4	10.6	11.3	12.7	14.8	17.4			
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	5.6	6.8	7.9	8.9	10.0	11.3	12.0	13.5	15.6	18.3			
19	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.7	4.7	5.7	7.0	8.3	9.4	10.7	12.0	12.7	14.3	16.5	19.3			
20	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	4.7	5.8	7.3	8.6	9.9	11.3	12.7	13.5	15.1	17.4	20.3			
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	7.6	8.9	10.4	11.9	13.5	14.3	16.0	18.4	21.4			
22	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	4.8	6.1	7.6	9.2	10.9	12.6	14.3	15.2	17.0	19.4	22.5			
23	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.6	4.8	6.1	7.6	9.5	11.3	13.2	15.1	16.1	18.0	20.5	23.7			
24	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	7.9	9.7	11.7	13.8	15.9	17.0	19.1	21.7	25.4			
25	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	6.2	8.0	9.9	12.0	14.4	16.8	17.9	20.3	23.0	26.4			
26	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	4.5	6.2	8.1	10.1	12.3	14.9	17.6	18.9	21.4	24.3	27.8			
27	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	4.4	6.1	8.2	10.2	12.6	15.4	18.4	19.8	22.5	25.7	29.4			
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.2	10.4	12.9	15.8	19.1	20.7	23.7	27.2	31.0			
29	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	8.2	10.5	13.1	16.2	19.7	21.5	24.9	28.6	32.7			
30	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	8.1	10.6	13.3	16.5	20.3	22.3	26.1	30.1	34.5			
31	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	10.6	13.5	16.8	20.9	23.0	27.1	31.6	36.5				
32	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	10.5	13.6	17.1	21.4	24.3	28.2	33.1	38.3				
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.8	3.8	5.0	7.3	10.4	13.7	17.4	21.8	23.7	29.1	34.6	40.2				
34	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	13.7	17.6	22.2	24.8	30.0	36.0	42.1				
35	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	13.6	17.8	22.6	25.3	30.8	37.3	44.1				
36	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	5.0	7.0	9.6	13.3	17.9	22.9	25.7	31.5	38.5	46.1				
37	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	6.9	9.4	12.9	17.9	23.2	26.1	32.1	39.7	47.8				
38	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	17.7	23.5	26.5	32.8	40.7	49.5				
39	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	6.6	9.0	12.4	17.4	23.6	26.8	33.3	41.7	51.1				
40	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	6.4	8.9	12.1	16.9	23.6	27.0	33.8	42.5	52.6				
41	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	8.7	11.9	16.5	23.4	27.1	34.3	43.3	53.9				
42	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	16.2	23.0	27.0	34.7	44.0	55.2				
43	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	8.3	11.5	15.9	22.4	26.7	35.0	44.7	56.2				
44	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	4.0	5.8	8.1	11.2	15.6	21.9	26.2	35.0	45.3	57.3				
45	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	15.3	21.5	25.5	34.9	45.8	58.3				
46	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	5.5	7.7	10.7	15.1	21.1	25.0	34.5	46.3	59.1				
47	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	14.7	20.7	24.5	33.8	46.4	59.9				
48	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	3.5	5.2	7.3	10.2	14.4	20.3	24.0	33.0	46.3	60.7				
49	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	5.1	7.1	10.0	14.1	20.0	23.6	32.4	45.9	61.3				
50	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.1	1.7	2.4	3.3	4.9	6.9	9.7	13.8	19.2	23.2	31.8	45.2	61.6				

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	2000	2500	3150	4000	5000	6300	8000	10000	
T	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	2.3	3.3	4.8	6.8	9.5	13.5	19.3	22.9	31.2	44.0	61.6	
E	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	1.6	2.2	3.2	4.6	6.6	9.3	13.2	18.9	22.4	30.6	43.2	61.2	
M	53	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	2.2	3.1	4.5	6.4	9.0	12.9	18.5	22.0	30.2	42.4	60.4	
P	54	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	4.4	6.2	8.8	12.6	18.1	21.5	29.7	41.7	59.1	
E	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	1.5	2.0	2.9	4.3	6.1	8.6	12.3	17.7	21.1	29.2	41.0	57.9	
	56	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	5.9	8.4	12.0	17.3	20.6	28.6	40.3	56.9	
	57	0.1	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	5.8	8.1	11.7	16.9	20.2	28.1	39.8	55.9	
	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	1.4	1.9	2.7	3.9	5.6	7.9	11.4	16.5	19.7	27.5	39.2	55.0	
	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	1.4	1.9	2.6	3.8	5.5	7.7	11.1	16.1	19.3	26.9	38.5	54.1	
	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	5.2	7.4	10.6	15.4	18.4	25.8	37.0	52.7	
	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	3.6	5.0	7.2	10.3	15.1	18.0	25.2	36.3	51.8	
	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	1.8	2.4	3.5	4.9	7.0	10.1	14.7	17.7	24.7	35.6	50.9	
	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	1.3	1.8	2.4	3.5	4.8	6.8	9.9	14.3	17.3	24.2	34.8	50.0	
	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	1.3	1.7	2.4	3.4	4.7	6.6	9.6	13.9	16.8	23.7	34.1	49.1	
	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	3.3	4.6	6.5	9.4	13.6	16.4	23.2	33.4	48.1	
	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	1.7	2.3	3.3	4.6	6.5	9.4	13.6	16.4	23.2	33.4	48.1	
	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	1.7	2.3	3.2	4.5	6.3	9.2	13.4	16.0	22.7	32.7	47.2	
	68	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2	4.4	6.2	8.9	13.1	15.7	22.2	32.0	46.3	
	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	1.7	2.3	3.1	4.3	6.0	8.7	12.8	15.4	21.6	31.4	45.3	
	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	3.1	4.2	5.9	8.5	12.5	15.0	21.1	30.8	44.4	
	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	2.2	3.0	4.2	5.8	8.3	12.1	14.7	20.6	30.2	43.6	
	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	1.3	1.7	2.2	3.0	4.1	5.7	8.1	11.8	14.3	20.2	29.5	42.7	
	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	3.0	4.0	5.6	7.9	11.5	14.0	19.9	28.8	41.9	
	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	3.0	4.0	5.5	7.8	11.3	13.6	19.4	28.1	41.1	
	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	3.0	4.0	5.4	7.6	11.0	13.3	19.0	27.6	40.3	
	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	1.8	2.2	3.0	4.0	5.3	7.5	10.8	13.0	18.5	27.0	39.4	
	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	3.0	4.0	5.3	7.4	10.6	12.7	18.1	26.5	38.5	
	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	1.8	2.3	3.0	3.9	5.2	7.3	10.4	12.5	17.6	26.0	37.7	
	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	3.0	3.9	5.2	7.2	10.2	12.2	17.2	25.4	37.0	
	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	3.9	5.2	7.1	10.0	12.0	16.9	24.8	36.3	
	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	2.3	3.0	3.9	5.2	7.0	9.9	11.8	16.6	24.2	35.7
	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	3.9	5.1	6.9	9.7	11.6	16.2	23.7	34.9
	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	5.1	6.9	9.6	11.4	15.9	23.2	34.2
	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	3.9	5.1	6.9	9.5	11.3	15.6	22.7	33.4	
	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	3.1	3.9	5.1	6.9	9.4	11.1	15.4	22.3	32.7	
	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	4.0	5.1	6.8	9.3	11.0	15.2	21.9	31.9	
	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	4.0	5.1	6.8	9.3	10.9	15.0	21.5	31.3	
	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	3.2	4.0	5.1	6.8	9.3	10.8	14.8	21.1	30.7	
	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	2.5	3.3	4.1	5.1	6.8	9.2	10.7	14.6	20.8	30.1	
	90	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	9.2	10.7	14.4	20.5	29.6		
	91	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	9.1	10.7	14.3	20.2	29.1		
	92	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	6.8	9.1	10.6	14.2	20.0	28.6		
	93	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	9.1	10.6	14.2	19.7	28.2		
	94	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	9.1	10.6	14.1	19.5	27.8		
	95	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	9.2	10.6	14.1	19.3	27.5		
	96	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	10.6	14.0	19.2	27.2		
	97	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	13.9	19.2	26.8		
	98	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	13.9	19.2	26.5		
	99	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	13.9	19.1	26.3		
	100	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	14.0	19.0	26.1		

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	1.0	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	1.0	1.2	1.7	2.2	2.7	3.3	3.9	4.5	5.2	5.7	6.4	7.1	8.1	8.7	9.9	11.6	13.9	
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.2	2.7	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.2	10.5	12.2	14.6	
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	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	
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	13.6	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	3.5	4.3	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	2.0	2.8	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	0.5	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	0.5	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	29.5	35.4	41.3		
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		
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		
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	6.8	9.4	12.9	17.7	23.0	25.8	31.7	39.1	47.0		
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		
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		
39	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	6.4	8.8	12.1	16.9	23.4	26.8	33.4	41.9	51.8	
40	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	3.1	4.3	6.2	8.6	11.8	16.5	23.3	26.8	33.9	42.8	53.2	
41	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	8.4	11.6	16.1	22.9	26.8	34.3	43.5	54.5	
42	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.2	11.4	15.8	22.4	26.4	34.6	44.2	55.6	
43	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	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	
44	0.1	0.1	0.1	0.1	0.2	0.3	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	21.4	25.4	34.7	45.3	57.6	
45	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.6	10.7	15.0	21.0	24.9	33.7	45.8	59.3	
46	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.5	10.4	14.7	20.6	24.4	33.7	46.0	60.0	
47	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	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	
48	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	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	
49	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.4	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	
50	0.1	0.1	0.1	0.1	0.2	0.3	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	19.2	22.8	31.0	43.9	61.0	

TEMPERATURE

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 S

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	3.4	4.1	4.9	5.6	6.3	7.0	7.8	8.9	9.5	10.8	12.6	15.0
14	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	6.0	6.7	7.5	8.4	9.4	10.0	11.4	13.3	15.8
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	5.4	6.5	7.5	8.5	9.5	10.6	11.3	12.8	14.8	17.4
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	7.9	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	7.8	9.6	11.6	13.8	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	4.3	6.1	7.9	9.8	12.0	14.4	16.8	18.0	20.4	23.1	26.6
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	0.2	0.3	0.5	0.7	1.1	1.5	2.1	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	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	3.9	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	27.2	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	38.6
32	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	13.5	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	23.2	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	23.1	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	8.5	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	10.4	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	0.9	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	3.3	4.9	6.9	9.7	13.7	19.5	23.0	31.4	44.7	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	18.7	22.2	30.3	42.8	60.4

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, 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	2.6	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	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.6	5.7	7.1	8.4	9.7	11.0	12.4	14.0	16.1	18.9
19	E	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	4.7	5.9	7.4	9.0	10.6	12.3	14.0	15.7	18.0	20.9	24.5
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	0.1	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	10.2	12.3	15.1	18.0	19.5	22.1	25.2	30.5
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	4.2	5.8	8.0	10.3	12.6	15.5	18.7	20.3	23.2	26.7	38.9
25	E	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.6	8.0	10.3	12.8	15.9	19.3	21.1	24.4	28.1	32.2
26	F	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
27	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	2.8	3.8	5.4	7.7	10.4	13.2	16.8	20.9	23.2	27.7	31.1	35.9
28	H	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	3.8	5.4	7.7	10.4	13.2	16.8	20.9	23.2	27.7	31.1
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	5.4	7.4	10.3	13.3	16.8	20.9	23.2	27.7	32.6	37.7
30	.	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.8	3.8	5.4	7.4	10.3	13.3	16.8	20.9	23.2	27.7	32.6	37.7
31	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
32	A	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	17.2	21.8	24.3	29.4	35.4	41.5
33	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	9.6	13.2	17.4	22.1	24.6	30.2	36.7	43.5
34	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	6.9	9.3	13.0	17.5	22.5	25.2	30.9	37.9	45.4
35	E	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.7	6.7	9.1	12.6	17.4	22.7	25.6	31.5	39.0	47.1
36	N	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	6.5	8.9	12.3	17.2	23.0	25.9	32.1	40.0	48.8
37	M	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	6.4	8.8	12.0	16.9	23.1	26.2	32.7	40.9	50.3
38	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	2.2	3.1	4.3	6.2	8.6	11.8	16.4	23.0	26.4	33.1	41.7	51.7
39	I	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	8.4	11.5	16.1	22.8	26.5	33.6	42.5	53.0
40	T	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	4.0	5.9	8.2	11.3	15.7	22.3	26.3	34.0	43.2	54.2
41	R	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	8.0	11.0	15.4	21.7	25.9	34.2	43.8	55.2
42	E	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.6	15.1	21.3	25.3	34.2	44.4	56.2
43	N	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.6	20.4	24.2	33.5	45.2	58.0
44	I	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.6	20.4	24.2	33.5	45.2	58.0
45	T	0.1	0.1	0.1	0.1	0.1	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	59.4
46	R	0.1	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	5.0	7.0	9.9	14.0	19.7	23.1	32.0	45.1	59.4
47	E	0.1	0.1	0.1	0.1	0.1	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	S	0.1	0.1	0.1	0.1	0.1	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	13.1	19.0	22.5	30.7	43.6	60.1
49	F	0.1	0.1	0.1	0.1	0.1	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	A	0.1	0.1	0.1	0.1	0.1	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	18.6	21.7	29.7	41.8	59.9

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	17.7	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	3.2	4.0	5.1	6.6	8.9	10.4	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	1.4	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.3	13.5	18.5	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	1.4	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.3	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	0.4	0.																	

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	0.6	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	0.9	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	0.3	0.5	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	
42	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	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	33.4	44.4	
43	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.5	20.4	24.2	33.4	44.8	
44	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	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	
45	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	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	
46	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	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	
47	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	19.0	22.4	30.6	43.5	
48	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	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	
49	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.5	6.3	9.0	12.7	18.2	21.6	29.5	41.6	
50	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	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	

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	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	20.7	28.6	40.1	56.8						
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	2.8	4.1	5.8	8.3	11.8	17.0	20.3	28.1	39.4	55.7						
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	1.9	2.7	4.0	5.7	8.0	11.5	16.6	19.8	27.5	38.8	54.7						
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	2.6	3.9	5.5	7.8	11.2	16.2	19.4	27.0	38.3	53.8						
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	2.6	3.8	5.4	7.6	11.0	15.8	18.9	26.4	37.6	52.9						
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	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	0.1	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	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	24.7	35.5	50.6						
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	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	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	16.9	23.6	34.0	48.8						
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	1.3	1.7	2.3	3.2	4.6	6.5	9.4	13.6	16.5	23.1	33.3	47.9						
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	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	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	1.0	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	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	1.0	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	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	1.0	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	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	1.0	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	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	1.0	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	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	1.0	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	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	1.0	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	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	1.0	1.3	1.7	2.1	2.9	3.8	5.3	7.4	10.5	12.6	18.4	26.8	39.2					
71	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	1.3	1.7	2.1	2.9	3.8	5.1	7.1	10.3	12.3	17.6	25.8	37.4					
72	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	1.7	2.2	2.9	3.8	5.0	7.0	10.1	12.1	17.1	25.2	36.6					
73	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	1.1	1.4	1.7	2.2	2.9	3.7	5.0	6.8	9.7	11.6	16.4	24.6	35.9					
74	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	1.1	1.4	1.8	2.2	2.9	3.7	5.0	6.7	9.6	11.4	16.0	23.5	34.6					
75	0.1	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	5.0	6.7	9.4	11.2	15.7	22.9	33.8					
76	0.1	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	9.3	11.0	15.4	22.4	33.1					
77	0.1	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	3.0	3.7	4.9	6.6	9.2	10.9	15.1	22.0	32.4					
78	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.3	3.0	3.8	4.9	6.6	9.0	10.7	14.9	21.6	31.6				
79	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.9	6.5	8.9	10.6	14.6	21.1	30.9				
80	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.5	8.9	10.5	14.4	20.8	30.3				
81	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.5	8.9	10.4	14.3	20.4	29.7				
82	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.5	8.9	10.4	14.3	20.4	29.7				
83	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	4.0	5.0	6.5	8.9	10.3	14.1	20.1	29.2				
84	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	1.0	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				
85	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	1.0	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				
86	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	1.0	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				
87	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	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.8	10.2	13.6	19.0	27.2				
88	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	1.0	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.8	10.2	13.6	19.0	27.2				
89	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	1.0	1.3	1.6	2.0	2.5	3.3	4.2	5.3	6.7	8.8	10.2	13.6	18.8	26.8				
90	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	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.8	8.8	10.2	13.6	18.6	26.5				
91	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	1.0	1.3	1.6	2.1	2.6	3.3	4.2	5.4	6.9	8.8	10.2	13.5	18.5	26.2				
92	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	1.0	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				
93	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	1.0	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	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	1.3	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	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	1.1	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	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	1.1	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	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	1.1	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	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	1.1	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	0.1	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	18.2	25.0				
100	0.1	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	18.2	24.9				

T E M P F R A T U R E • D E G R E E S F A H H P E M N H F 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, HZ															
	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	0.9	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.8
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	2.2	2.4	2.7	3.0
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	2.6	2.9	3.2
4	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.9	2.2	2.5	2.8	3.1	3.5
5	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
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	2.8	3.2	3.6	4.0
7	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.5	2.9	3.4	3.8	4.2
8	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.1	3.6	4.0	4.5
9	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
10	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
11	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
12	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
13	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
14	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
15	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
16	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
17	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
18	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
19	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
20	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
21	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
22	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
23	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
24	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
25	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
26	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
27	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
28	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
29	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
30	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
31	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
32	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
33	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
34	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
35	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
36	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
37	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
38	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
39	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
40	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
41	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
42	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
43	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
44	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
45	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
46	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
47	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
48	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
49	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8
50	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8

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	4.1	5.2	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	0.5	0.7	1.0	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	0.5	0.7	1.0	1.4	2.0	2.7	3.6	4.5	5.5	6.5
16	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	5.5	6.5
17	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.6	3.6	4.6	5.7	6.8
18	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	7.0
19	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	7.0
20	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	4.4	5.5	6.7
21	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.2	4.3	5.4	6.5
22	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.2	4.3	5.4	6.5
23	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	4.1	5.2	6.3
24	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	4.1	5.2	6.3
25	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	2.0	2.9	3.9	5.0	6.1
26	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	2.0	2.8	3.8	4.9	6.0
27	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	2.0	2.8	3.8	4.9	6.0
28	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.9	2.7	3.6	4.5	5.4
29	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.8	2.6	3.5	4.4	5.3
30	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.2	1.8	2.5	3.4	4.3	5.2
31	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.2	1.7	2.5	3.4	4.3	5.2
32	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.2	1.7	2.4	3.3	4.2	5.1
33	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.2	1.6	2.3	3.2	4.1	5.0
34	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.1	1.6	2.3	3.2	4.1	5.0
35	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.1	1.5	2.2	3.1	4.0	4.9
36	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.1	1.5	2.1	3.0	3.9	4.8
37	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.0	1.4	2.0	2.9	3.8	4.7
38	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.0	1.4	2.0	2.9	3.8	4.7
39	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.9	1.3	1.9	2.7	3.6	4.5
40	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.9	1.3	1.9	2.6	3.5	4.4
41	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.2	1.8	2.6	3.5	4.4
42	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.2	1.8	2.6	3.5	4.4
43	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.2	1.7	2.5	3.4	4.3
44	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.1	1.6	2.4	3.3	4.2
45	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.1	1.6	2.3	3.2	4.1
46	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.1	1.5	2.2	3.1	4.0
47	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.8	1.1	1.5	2.1	3.0	3.9
48	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.7	1.0	1.4	2.0	2.9	3.8
49	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.7	1.0	1.4	2.0	2.9	3.8
50	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	0.7	1.0	1.4	2.0	2.8	3.7

TEMPERATURE, DEGREES FAHRENHEIT

ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR ONE-THIRD OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	8.9	10.6	14.7	21.3	31.3
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	4.8	6.5	8.8	10.5	14.5	20.9
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	6.4	8.8	10.2	14.1	20.1
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	6.4	8.8	10.2	14.1	20.1
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	6.4	8.7	10.2	13.9	19.8
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	2.4	3.1	3.9	4.9	6.4	8.7	10.2	13.7	19.5
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	5.0	6.4	8.6	10.1	13.5	19.2
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	6.4	8.6	10.1	13.4	19.0
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	8.6	10.0	13.4	18.8
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	8.6	10.0	13.3	18.5
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	3.3	4.1	5.2	6.7	8.6	10.0	13.3	18.3
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	2.6	3.3	4.2	5.3	6.7	8.7	10.0	13.3	18.2
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	5.3	6.8	8.7	10.0	13.2	18.2
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	13.2	18.2
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	8.9	10.1	13.2	18.1
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	13.2	18.0
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	17.9
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	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.9
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	3.6	4.5	5.7	7.2	9.3	10.6	13.4	17.9
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	3.6	4.5	5.7	7.3	9.4	10.7	13.6	17.9
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	3.6	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	2.2	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.0

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
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
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
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
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
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
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
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
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
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
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
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
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
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	1.6	2.1	2.9
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
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
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	2.1	2.8
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	2.1	2.8
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	2.1	2.8
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	2.8
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	2.8
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	2.8
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	1.7	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	0.8	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	3.0
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
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	2.3	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	0.9	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	3.2
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	3.3
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	2.6	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	3.4
95	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	2.2	2.7	3.5
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	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	0.8	1.1	1.4	1.7	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	0.8	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	0.7	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

T E M P E 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 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	18.8	21.8
18	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	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	5.9	7.5	9.2	11.2	13.3	15.4	16.5	18.6	21.1	24.4
20	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	5.8	7.6	9.4	11.5	13.8	16.2	17.4	19.7	22.4	25.7
21	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	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	0.0	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.7	9.9	12.3	15.1	18.4	20.0	23.1	26.6	30.4
24	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	10.0	12.5	15.4	19.0	20.8	24.3	28.0	32.1
25	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.2	7.5	10.0	12.6	15.6	19.5	21.5	25.3	29.4	34.0
26	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	3.7	5.1	7.2	9.9	12.8	16.3	20.4	22.2	26.3	30.9	35.8
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	7.0	9.8	12.9	16.3	20.4	22.7	27.3	32.4	37.6	43.6
28	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	46.7
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	3.4	4.7	6.7	9.2	12.8	16.7	21.2	23.7	28.9	35.0	41.4	49.6
30	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	52.0
31	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	54.0
32	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	8.6	11.6	16.3	22.0	24.9	31.8	39.2	48.2	58.9
33	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	4.2	6.1	8.4	11.6	16.3	22.1	25.2	31.3	39.2	48.2	58.9
34	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	22.1	25.4	31.8	40.0	49.6	60.9
35	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	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.4	2.0	2.8	3.9	5.7	7.9	10.9	15.1	21.5	25.2	32.6	41.4	52.0	63.6
37	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	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	66.9
39	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	68.2
40	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	69.6
41	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	6.9	9.7	13.6	19.2	22.7	31.2	43.4	56.4	70.8
42	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	6.7	9.4	13.3	18.8	22.2	30.5	43.1	57.1	71.9
43	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	72.8
44	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	73.1
45	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	73.7
46	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	74.1
47	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	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	72.5
49	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	71.8
50	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	70.9

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	0.6	0.9	1.3	1.8	2.5	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	2.4	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	12.7	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	1.4	2.0	2.8	3.9	5.7	7.9	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	0.9	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	11.7	14.1	19.9	28.9	41.6
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	11.4	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	1.6	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	0.6	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	0.6	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	0.6	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	0.6	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 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	1.6	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	10.8
4	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	3.3	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	1.1	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	9.4	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	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.1	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	49.3
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	6.6	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	1.4	1.9	2.8	4.1	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	4.0	5.6	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	14.7	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	18.0	25.8
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	3.1	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	0.9	1.2	1.5	1.9	2.3	2.7	3.0	3.4	3.7
3	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	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	3.8	4.3
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	3.6	4.0	4.6
6	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.1	3.7	4.3	4.9
7	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.2	3.8	4.5	5.2
8	0.1	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	5.5
9	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.6	3.3	4.1	4.9	5.8
10	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	5.1	6.1
11	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	4.3	5.2	6.3
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	6.6
13	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	6.8
14	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	4.4	5.5	6.9
15	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	5.6	7.1
16	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	4.4	5.7	7.2
17	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.2	3.1	4.4	5.7	7.3
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	4.2	5.7	7.5
19	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	5.7	7.5
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	2.9	4.0	5.5	7.6
21	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.3	7.6
22	0.0	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	5.1	7.3
23	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.6	3.6	5.1	7.3
24	0.0	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	4.8	6.9
25	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.7
26	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	6.7
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	6.7
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	3.2	4.5	6.4
29	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	3.1	4.4	6.3
30	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	4.2	6.1
31	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8
32	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.4	1.9	2.8	3.9	5.6
33	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.4	1.9	2.8	3.9	5.6
34	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
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
36	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
37	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	3.3	4.9
38	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	3.3	4.9
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	2.2	3.1	4.6
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	2.2	3.1	4.6
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	1.5	2.1	3.0	4.5
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	4.5
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	1.4	2.0	2.9	4.2
44	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	4.1
45	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	4.0
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	1.3	1.8	2.6	3.9
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	1.3	1.8	2.5	3.7
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	1.3	1.7	2.5	3.6
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	1.7	2.4	3.5
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	1.7	2.4	3.4

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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.2	3.5
97	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	3.6
98	0.1	0.1	0.1	0.2	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	0.2	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	0.2	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	TEMP	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	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.1
3	TEMP	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.7	4.1	4.5	5.1	5.7	6.5	7.0	8.1	9.6	11.7
4	TEMP	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	3.6	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9
5	TEMP	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	3.8	4.4	5.0	5.6	6.2	6.9	7.9	8.4	9.6	11.3	13.6
6	TEMP	0.1	0.1	0.2	0.2	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	8.9	10.2	11.9	14.3
7	TEMP	0.1	0.1	0.2	0.2	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	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	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	TEMP	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	6.2	7.1	8.0	9.0	10.1	10.8	12.2	14.1	16.7
10	TEMP	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	4.3	5.2	6.4	7.5	8.5	9.6	10.8	11.5	12.9	15.0	17.6
11	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.5	4.3	5.3	6.6	7.8	8.9	10.2	11.5	12.2	13.8	15.8	18.6
12	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	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
13	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	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	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	7.0	8.4	9.9	11.4	13.1	13.9	15.5	17.8	20.7
15	TEMP	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	4.4	5.6	7.1	8.7	10.3	12.1	13.8	14.8	16.5	18.8	21.9
16	TEMP	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	4.4	5.7	7.2	8.9	10.7	12.7	14.6	15.6	17.5	20.0	23.1
17	TEMP	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	4.3	5.7	7.4	9.1	11.0	13.2	15.4	16.5	18.5	21.2	24.4
18	TEMP	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	4.1	5.7	7.5	9.3	11.3	13.7	16.2	17.4	19.7	22.5	25.8
19	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.5	2.1	2.9	3.9	5.4	7.5	9.4	11.6	14.1	16.9	18.2	20.8	23.8	27.3
20	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	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
21	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.2	15.2	18.8	20.7	24.2	28.1	32.4
22	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.9	2.7	3.7	5.1	7.3	9.7	12.5	15.8	19.7	21.9	26.2	31.0	36.0
23	TEMP	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	3.6	5.0	7.1	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
24	TEMP	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	3.6	5.0	7.1	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
25	TEMP	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	3.6	5.0	7.1	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
26	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.4	5.6	6.6	9.1	12.5	16.2	20.5	22.9	27.9	33.7	39.7
27	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.7	2.4	3.3	4.4	5.6	6.6	9.1	12.5	16.2	20.5	22.9	27.9	33.7	39.7
28	TEMP	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	4.4	5.6	6.4	8.8	12.3	16.3	20.8	23.3	28.6	34.9	41.6
29	TEMP	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	4.4	5.6	6.4	8.8	12.3	16.3	20.8	23.3	28.6	34.9	41.6
30	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.5	2.1	2.9	3.9	5.4	7.5	9.4	11.6	14.9	18.2	19.9	23.1	26.7	30.6
31	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.5	2.1	2.9	3.9	5.4	7.5	9.4	11.6	14.9	18.2	19.9	23.1	26.7	30.6
32	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.2	15.2	18.8	20.7	24.2	28.1	32.4
33	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
34	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
35	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
36	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
37	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
38	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
39	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
40	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
41	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
42	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
43	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
44	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
45	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
46	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
47	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
48	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
49	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
50	TEMP	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.5	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2

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, 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	0.2	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	0.2	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	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	3.9	4.6	5.4	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	0.2	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	0.2	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	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.1	6.2	7.3	8.2	9.2	10.4	11.0	12.5	14.6	
11	0.1	0.1	0.1	0.2	0.2	0.2	0.3	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	
12	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.5	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	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.4	4.4	5.5	6.8	8.2	9.6	11.0	12.6	13.3	14.9	17.1	
14	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	3.3	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	0.1	0.2	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	11.6	14.3	17.2	18.6	21.2	24.4	27.9	
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	19.4	22.4	25.8	29.5	
21	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	3.7	5.0	7.2	9.7	12.2	15.3	19.0	20.2	23.6	27.2	31.3	
22	0.0	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	3.7	5.0	7.2	9.6	12.4	15.6	19.4	20.9	24.6	28.6	33.1	
23	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	
24	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	3.5	4.8	6.8	9.4	12.5	15.8	19.8	22.1	26.5	31.6	36.7	
25	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	
26	0.1	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	
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	1.6	2.3	3.2	4.4	6.3	8.7	12.0	16.2	20.9	23.4	28.7	35.3	42.3	
28	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	
29	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	2.9	4.2	6.0	8.3	11.4	16.0	21.3	24.1	29.9	37.3	45.5	
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	2.1	2.9	4.1	5.9	8.1	11.1	15.6	21.4	24.4	30.4	38.1	47.0	
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	5.7	7.9	10.9	15.1	21.3	24.5	30.8	38.9	48.3	
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	2.7	3.8	5.6	7.7	10.6	14.8	21.0	24.5	31.2	39.6	49.6	
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	1.3	1.9	2.6	3.7	5.4	7.5	10.4	14.5	20.5	24.3	31.6	40.2	50.6	
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	41.8	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	6.2	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	4.0	5.7	8.0	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	0.3	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	0.3	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	0.3	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	0.3	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, °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

	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	37.5	
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	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	0.4	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	32.3	
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	2.6	3.4	4.6	6.2	8.8	10.4	14.7	21.5	31.7	
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	3.4	4.5	6.1	8.6	10.3	14.4	21.0	31.0	
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	2.1	2.7	3.4	4.5	6.1	8.5	10.1	14.1	20.5	30.3	
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	4.5	6.1	8.4	10.0	13.8	20.1	29.6	
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	4.5	6.1	8.3	9.8	13.6	19.7	28.9	
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	4.5	6.0	8.2	9.7	13.4	19.3	28.2	
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	4.5	6.0	8.2	9.6	13.2	18.9	27.6	
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	4.5	6.0	8.2	9.5	13.0	18.6	27.1	
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	6.0	8.1	9.5	12.9	18.3	26.6	
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	6.0	8.1	9.5	12.7	18.1	26.1	
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	25.6	
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	25.2	
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	2.3	3.0	3.8	4.8	6.1	8.0	9.3	12.5	17.4	24.9
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	17.2	24.5
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	17.0	24.2
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	17.0	23.9
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	3.1	4.0	5.0	6.4	8.3	9.4	12.3	17.0	23.6
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	16.9	23.4
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	16.8	23.2
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	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.7	23.2
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	2.5	3.3	4.2	5.3	6.7	8.6	9.8	12.4	16.7	23.2
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	16.7	23.1
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	3.3	4.2	5.3	6.8	8.8	10.0	12.7	16.7	23.0
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	16.8	22.9
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	2.7	3.4	4.3	5.5	7.0	9.0	10.2	12.9	16.9	22.8
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	7.0	9.0	10.3	13.1	17.0	22.8
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	22.9
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	3.5	4.4	5.6	7.1	9.2	10.5	13.3	17.4	22.9
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	3.6	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	0.2	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	23.2
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 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	0.8	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	0.2	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	0.2	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	15.0	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	3.8	5.4	7.5	9.4	11.9	14.7	18.0	19.7	22.8	26.3	30.2
20	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	12.1	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	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	7.0	9.5	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	1.2	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
23	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
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	3.3	4.6	6.5	9.0	12.3	16.0	20.3	22.7	27.6	33.3
25	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	3.2	4.5	6.4	8.7	12.1	16.1	20.9	23.5	28.3	34.5
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	1.5	2.2	3.1	4.4	6.2	8.5	11.8	16.1	20.9	23.5	28.9	35.6
27	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	2.2	3.0	4.2	6.1	8.3	11.5	16.0	21.1	23.8	29.5	36.6
28	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	2.1	2.9	4.1	5.9	8.1	11.2	15.7	21.3	24.1	30.0
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	2.0	2.8	4.0	5.8	8.0	10.9	15.3	21.3	24.4	30.5	
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	4.0	5.8	8.0	10.9	15.3	21.3	24.4	30.5	
31	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	1.9	2.6	3.9	5.6	7.8	10.7	14.9	21.1	24.4	30.9	
32	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	5.3	7.4	10.3	14.2	20.1	24.0	31.5	
33	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	7.2	10.0	13.9	19.6	23.4	31.5	
34	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	9.3	13.1	18.4	21.8	30.0	
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	1.0	1.5	2.2	3.1	4.6	6.4	9.0	12.8	18.0	21.3	29.3	
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	1.1	1.7	2.3	3.3	4.8	6.8	9.5	13.4	19.2	22.7	31.3	
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	3.2	4.7	6.6	9.3	13.1	18.4	21.8	30.0	
38	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	4.6	6.4	9.0	12.8	18.0	21.3	29.3	
39	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.8	12.5	17.7	20.9	28.6	
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	1.4	2.1	2.9	4.3	6.1	8.5	12.1	17.3	20.6	28.0	
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	2.8	4.2	5.9	8.3	11.8	16.9	20.1	27.5	
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	1.9	2.8	4.0	5.7	8.1	11.5	16.5	19.7	27.0	
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	0.9	1.3	1.9	2.7	3.9	5.6	7.9	11.2	16.1	19.3	26.6	
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	1.8	2.6	3.8	5.4	7.7	10.9	15.7	18.8	26.1	
45	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.4	10.6	15.3	18.4	25.5	
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	1.2	1.7	2.4	3.6	5.1	7.2	10.4	15.0	17.9	24.9	
47	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.0	7.0	10.1	14.6	17.5	24.4	
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	1.6	2.3	3.4	4.8	6.8	9.8	14.2	17.0	23.8	
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	2.2	3.3	4.7	6.7	9.5	13.9	16.6	23.3	
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	3.2	4.5	6.5	9.3	13.0	16.2	22.7	

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
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	2.1	3.1
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	1.5	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	1.2	1.5	2.1	3.0
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	2.8
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	2.0	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	2.7
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	1.9	2.7
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	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	1.5	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	2.1	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	1.6	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	1.3	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	1.4	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

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	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	T	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	E	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	M	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	P	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	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	9.7	10.9	11.5	13.0	15.0	17.7
11	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	10.3	11.6	12.3	13.8	15.9	18.7
12	E	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	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	M	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	4.4	5.6	6.9	8.4	9.9	11.5	13.1	13.9	15.6	17.9	20.8
14	P	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	5.6	7.1	8.6	10.3	12.1	13.9	14.8	16.6	19.0	22.0
15	E	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	T	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	E	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	M	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	P	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	T	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.6	3.6	4.9	6.9	9.5	12.3	15.4	19.2	21.3	25.3	29.7	34.4
22	E	0.0	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	4.7	6.7	9.3	12.3	15.6	19.6	21.8	26.2	31.2	36.2
23	M	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	P	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	E	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	T	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	M	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	P	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	E	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	T	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	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	1.8	2.6	3.7	5.3	7.5	10.3	14.3	20.3	24.0	31.2	39.8	50.1
33	M	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	P	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	T	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	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
38	M	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
39	P	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	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
41	T	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	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
43	M	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	P	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	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
46	T	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	M	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	P	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	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

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	4.4	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	1.3	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	1.6	2.4	3.3	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 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	1.5	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	2.3	2.9	3.5	4.2
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.2
11	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.3	2.9	3.5	4.2
12	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.3	2.9	3.5	4.2
13	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	2.8	3.4	4.1
14	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	2.8	3.4	4.1
15	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
16	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
17	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
18	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
19	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
20	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
21	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
22	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
24	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
35	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.7	3.3	4.0

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
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	2.9
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	2.8
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	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	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	2.7
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	2.6
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	2.6
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	1.5	1.9	2.6
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	2.6
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	2.6
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	2.6
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	2.6
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
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
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
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	1.4	1.7	2.1	2.7
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	2.2	2.8
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
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
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
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
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
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	3.0
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	1.9	2.3	3.0
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	2.4	3.0
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
83	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
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	3.1
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	1.6	2.0	2.5	3.2
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
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
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	3.3
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	3.3
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	0.6	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

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	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.1	3.7	4.4	5.1
5	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.2	3.9	4.6	5.4
6	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.2	4.0	4.8	5.7
7	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	4.9	5.9
8	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	5.1	6.2
9	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
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.3	4.3	5.3	6.6
11	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.3	5.4	6.7
12	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	4.3	5.4	6.9
13	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	5.5	7.0
14	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	5.5	7.1
15	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	7.2
16	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	7.3
17	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	7.2
18	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	7.1
19	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	7.1
20	0.0	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	4.8	6.8
21	0.0	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	6.7
22	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
23	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	4.5	6.3
24	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.3	6.2
25	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9
26	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	5.9
27	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	5.9
28	0.1	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
29	0.1	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
30	0.1	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
31	0.1	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
32	0.1	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
33	0.1	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
34	0.1	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
35	0.1	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
36	0.1	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
37	0.1	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
38	0.1	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
39	0.1	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
40	0.1	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
41	0.1	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
42	0.1	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
43	0.1	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
44	0.1	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
45	0.1	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
46	0.1	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
47	0.1	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
48	0.1	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
49	0.1	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
50	0.1	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

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	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	0.8	1.1	1.5	2.0	2.8	4.0	5.6	8.2	11.9	14.3	20.2	29.2	42.0	
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	0.8	1.1	1.5	2.0	2.8	3.9	5.5	8.0	11.6	13.9	19.8	28.5	41.1	
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	1.9	2.7	3.8	5.3	7.7	11.3	13.6	19.2	27.8	40.2	
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	1.4	1.9	2.6	3.7	5.2	7.5	11.0	13.3	18.7	27.2	39.3	
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	1.4	1.9	2.6	3.6	5.0	7.1	10.7	13.0	18.2	26.6	38.5	
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	1.4	1.9	2.6	3.6	5.0	7.1	10.5	12.6	17.8	26.0	37.6	
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	1.4	1.9	2.6	3.5	4.9	6.9	10.2	12.3	17.4	25.3	36.8	
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	1.4	1.9	2.6	3.5	4.8	6.8	9.9	12.0	17.0	24.7	36.0	
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	1.9	2.6	3.4	4.7	6.6	9.6	11.6	16.6	24.1	35.3	
60	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.6	6.5	9.4	11.3	16.2	23.6	34.5	
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	2.5	3.4	4.5	6.4	9.2	11.1	15.8	23.1	33.6	
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	2.5	3.4	4.5	6.3	9.0	10.8	15.3	22.6	32.8	
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	1.5	1.9	2.5	3.3	4.4	6.2	8.8	10.6	14.9	22.0	32.1	
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	2.5	3.3	4.4	6.1	8.6	10.3	14.6	21.5	31.4	
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	2.5	3.3	4.4	6.0	8.5	10.1	14.3	21.0	30.9	
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	3.3	4.4	5.9	8.4	10.0	14.0	20.4	30.2	
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	2.0	2.6	3.3	4.4	5.9	8.2	9.8	13.7	19.9	29.5	
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	3.3	4.3	5.9	8.1	9.6	13.4	19.5	28.8	
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	2.7	3.3	4.3	5.8	8.0	9.5	13.2	19.1	28.1	
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	4.3	5.8	7.9	9.4	13.0	18.7	27.4	
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	3.5	4.4	5.8	7.9	9.2	12.8	18.4	26.8	
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	4.4	5.8	7.9	9.2	12.6	18.0	26.3	
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	4.4	5.8	7.8	9.2	12.4	17.7	25.8	
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	2.2	2.8	3.5	4.5	5.8	7.8	9.1	12.3	17.5	25.3	
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	3.6	4.5	5.8	7.8	9.1	12.1	17.2	24.8	
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	4.6	5.8	7.7	9.0	12.1	17.0	24.4	
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	3.6	4.6	5.9	7.7	9.0	12.1	16.8	24.0	
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	7.7	9.0	12.0	16.6	23.7	
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	6.0	7.8	9.0	12.0	16.4	23.4	
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	7.8	9.0	11.9	16.4	23.1
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	7.9	9.0	11.9	16.4	22.8
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	3.0	3.8	4.8	6.2	8.0	9.1	11.9	16.3	22.6
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	9.2	11.9	16.2	22.4
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	4.0	5.0	6.3	8.2	9.3	11.9	16.1	22.3
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	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	11.9	16.1	22.3
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	12.1	16.1	22.2
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	16.1	22.1
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	16.1	22.0
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	12.5	16.2	22.0
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	16.4	22.0
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	22.0
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	8.9	10.1	12.8	16.7	22.0
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	22.2
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	22.9
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	22.9
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	13.5	17.6	23.1
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	23.5
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	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 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	4.5	5.2	5.8	6.5	7.2	8.2	8.7	10.0	11.7	14.0
5	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	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	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.2	4.0	4.8	5.8	6.6	7.4	8.3	9.3	9.9	11.2	13.1	15.5
7	U	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	5.1	6.2	7.3	8.3	9.4	10.6	11.3	12.7	14.7	17.3
8	R	0.1	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	5.2	6.4	7.6	8.8	10.0	11.3	12.0	13.5	15.6	18.3
9	E	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	4.3	5.3	6.4	7.8	9.3	10.6	12.1	12.8	14.4	16.5	19.3
10	M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.2	4.3	5.4	6.8	8.2	9.7	11.2	12.9	13.7	15.3	17.5	20.4
11	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.1	4.2	5.4	6.9	8.4	10.1	11.9	13.6	14.5	16.3	18.6	21.6
12	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.6	2.2	3.0	4.2	5.5	7.0	8.6	10.5	12.4	14.4	15.4	17.3	19.7	22.8
13	U	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.1	2.9	4.1	5.5	7.1	8.8	10.8	12.9	15.2	16.3	18.5	21.0	24.2
14	R	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.5	2.0	2.9	3.9	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	0.9	1.0	1.4	2.0	2.8	3.8	5.3	7.3	9.1	11.3	13.8	16.6	18.1	20.6	23.6	27.1
16	M	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	1.9	2.7	3.7	5.1	7.2	9.3	11.5	14.2	17.3	18.8	21.7	25.1	28.7
17	P	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.9	2.6	3.6	5.0	7.1	9.3	11.7	14.5	17.9	19.6	22.9	26.4	30.4
18	A	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.8	2.6	3.5	4.9	7.0	9.3	11.9	14.8	18.4	20.3	23.9	27.8	32.2
19	U	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.4	3.5	4.9	7.0	9.3	12.0	15.1	18.8	20.9	24.9	29.3	34.0
20	R	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.5	3.5	4.7	6.7	9.3	12.0	15.1	18.8	20.9	24.9	29.3	34.0
21	E	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.4	3.4	4.6	6.5	9.1	12.1	15.3	19.2	21.4	25.7	30.7	35.7
22	M	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.3	3.3	4.5	6.4	8.8	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	0.7	0.9	1.0	1.3	1.7	2.3	3.2	4.4	6.2	8.6	11.9	15.7	19.9	22.3	27.3	33.2	39.5
24	A	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.2	3.1	4.3	6.1	8.3	11.6	15.7	20.2	22.7	27.9	34.3	41.3
25	U	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.1	3.0	4.1	6.0	8.1	11.2	15.4	20.5	23.1	28.5	35.4	42.9
26	R	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.0	2.8	3.9	5.0	6.8	9.0	10.9	15.4	20.7	23.4	29.0	36.3	44.4
27	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.4	2.0	2.8	3.9	5.0	6.7	8.8	10.7	14.9	20.7	23.6	29.5	37.0	45.8
28	M	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	4.8	6.5	8.9	11.4	14.5	20.5	23.7	29.9	37.8	47.1
29	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.8	2.5	3.6	4.7	6.3	8.7	11.2	14.2	20.2	23.6	30.3	38.5	48.3
30	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.4	3.5	4.6	6.2	8.6	11.0	13.8	19.6	23.3	30.5	39.1	49.2
31	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.4	3.4	4.5	6.0	8.3	10.7	13.5	19.1	22.8	30.6	39.6	50.2
32	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.4	3.3	4.4	5.9	8.2	10.5	13.0	18.7	22.1	30.4	40.1	51.1
33	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.4	3.3	4.4	5.8	8.0	10.3	12.7	17.9	21.1	29.9	40.4	51.8
34	M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.2	3.1	4.2	5.6	7.6	9.8	12.4	17.5	20.7	28.4	40.2	52.5
35	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.1	3.0	4.1	5.4	7.4	9.6	12.1	17.2	20.3	27.8	40.2	53.1
36	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.0	2.9	3.9	5.1	7.1	9.3	11.8	16.8	19.9	27.2	38.6	50.1
37	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	2.0	2.8	3.8	5.0	6.9	9.0	11.5	16.4	19.5	26.7	37.6	50.2
38	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.7	3.7	4.9	6.7	8.8	11.2	16.0	19.1	26.2	36.9	52.3
39	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.6	3.6	4.8	6.6	8.9	11.6	16.0	19.1	26.2	36.9	52.3
40	M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.5	3.5	4.7	6.4	8.8	11.4	16.4	19.5	26.7	37.6	52.3
41	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.4	3.4	4.6	6.2	8.5	10.6	15.2	18.2	25.2	35.4	50.1
42	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.4	3.4	4.6	6.1	8.2	10.3	14.8	17.7	24.7	34.8	49.1
43	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.3	3.3	4.5	6.3	8.4	10.4	14.4	17.3	24.1	34.2	48.1
44	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.2	3.2	4.4	6.0	8.1	10.1	14.1	16.9	23.5	33.6	47.2
45	E	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.2	3.2	4.4	6.0	8.0	10.0	13.7	16.4	22.4	32.9	46.4
46	M	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.1	3.1	4.3	5.9	8.1	10.3	14.1	16.9	23.5	33.6	47.2
47	P	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.1	2.9	4.1	5.6	7.8	10.2	14.0	16.8	23.2	32.9	46.4
48	A	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.1	2.8	4.0	5.4	7.6	10.0	13.8	16.6	23.0	32.2	45.7
49	U	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.1	2.7	3.9	5.2	7.4	9.8	12.7	15.2	21.3	30.8	44.0
50	R	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.7	1.9	2.1	2.5	3.7	5.0	7.1	9.3	12.3	14.9	20.8	30.0	43.2

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	1.2	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 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	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.4	2.9	3.4	3.8	4.4
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	3.5	4.1	4.7
3	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	3.7	4.3	5.0
4	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	3.6	4.5	5.3
5	0.1	0.1	0.1	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	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.8
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	6.1
8	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.1	5.1	6.3
9	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	5.2	6.5
10	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.3	5.3	6.7
11	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	4.3	5.4	6.8
12	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.8	1.1	1.4	2.2	3.1	4.2	5.4	6.9
13	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	5.5	7.0
14	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	7.1
15	0.0	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	5.2
16	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	5.2	7.2
17	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	5.0	7.2
18	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
19	0.0	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	4.8	6.8
20	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.6
21	0.0	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	4.6	6.4
22	0.0	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	4.4	6.3
23	0.0	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	4.3	6.1
24	0.0	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
25	0.0	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
26	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	3.8	5.0	7.0
27	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	5.1	7.3
28	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	5.0	7.1
29	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	5.0	7.1
30	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	5.1	7.1
31	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
32	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	6.7
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.2	6.0
34	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
35	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	5.7
36	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	5.7
37	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	5.7
38	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	4.0	5.6
39	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
40	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
41	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
42	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	5.0
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.4	4.8
44	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.3	4.7
45	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	4.6
46	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	3.1	4.4
47	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	4.3
48	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	4.2
49	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	2.9	4.0
50	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	3.9

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	1.6	2.0	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	12.6	18.1	26.4
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	1.3	1.7	2.1	2.7	3.5	4.4	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	2.2	2.8	3.5	4.5	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	9.5	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	5.4
U	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
R	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
E	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
•	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
D	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
E	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
G	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
R	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
E	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
E	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
S	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
F	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	5.4
H	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
E	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
M	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
H	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
F	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
I	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
T	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
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	2.9	3.5	4.0	4.5
63	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
80	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
100	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
125	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
160	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
200	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
250	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
315	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
400	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
500	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
630	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
800	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
1000	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
1250	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
1600	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
2000	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
2500	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
3150	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
4000	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
5000	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
6300	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
8000	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8
10000	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.6	4.2	4.8

BAND CENTER FREQUENCY.

	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	1.4	1.9	2.7	3.7	5.2	7.6	11.1	13.3	18.8	27.3	39.4
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	1.1	1.4	1.9	2.6	3.6	5.1	7.3	10.8	13.0	18.3	26.6	38.5
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	1.9	2.6	3.6	5.0	7.1	10.5	12.7	17.8	26.0	37.6
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	2.5	3.5	4.9	7.0	10.2	12.4	17.4	25.4	36.8
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	1.4	1.8	2.5	3.4	4.8	6.8	9.9	12.0	17.0	24.8	36.0
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	1.1	1.4	1.8	2.5	3.4	4.7	6.6	9.6	11.7	16.6	24.1	35.2
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	1.1	1.4	1.8	2.5	3.3	4.6	6.5	9.4	11.4	16.2	23.5	34.5
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	3.3	4.5	6.3	9.2	11.1	15.8	23.0	33.7
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	1.8	2.5	3.3	4.4	6.2	9.0	10.8	15.4	22.6	32.8
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	1.9	2.5	3.3	4.4	6.1	8.8	10.6	15.0	22.0	32.0
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	3.2	4.3	5.9	8.6	10.3	14.2	21.5	31.3
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	3.2	4.3	5.9	8.6	10.1	14.2	21.0	30.7
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	3.2	4.3	5.8	8.3	9.9	13.9	20.4	30.1
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	1.9	2.5	3.2	4.3	5.8	8.2	9.7	13.6	19.9	29.4
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	1.6	2.0	2.5	3.2	4.3	5.7	8.0	9.5	13.3	19.4	28.7
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	3.2	4.2	5.7	7.9	9.4	13.1	19.0	28.0
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	2.6	3.3	4.2	5.7	7.8	9.3	12.8	18.6	27.4
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	4.2	5.7	7.7	9.1	12.6	18.2	26.7
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	4.2	5.6	7.7	9.0	12.4	17.9	26.1
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	3.4	4.3	5.6	7.7	9.0	12.3	17.6	25.6
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	5.6	7.7	8.9	12.1	17.3	25.1
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	4.4	5.6	7.6	8.9	11.8	16.8	24.2
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	5.6	7.6	8.9	11.8	16.8	24.2
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	1.4	1.7	2.2	2.8	3.5	4.5	5.7	7.6	8.8	11.8	16.6	23.8
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	3.6	4.5	5.8	7.6	8.8	11.8	16.4	23.4
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	7.6	8.8	11.7	16.2	23.1
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	7.6	8.8	11.7	16.1	22.8
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	8.8	11.6	16.0	22.5
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	8.8	11.6	16.0	22.3
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	1.8	3.0	3.8	4.7	6.1	7.9	8.9	11.6	15.9	22.0
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	3.8	4.8	6.1	7.9	9.0	11.6	15.8	21.9
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	3.1	3.9	4.9	6.3	8.0	9.1	11.6	15.8	21.8
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	3.1	3.9	4.9	6.3	8.2	9.3	11.8	15.8	21.7
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	3.1	3.9	4.9	6.3	8.3	9.4	12.0	15.8	21.6
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	5.0	6.4	8.3	9.4	12.0	15.8	21.5
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	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.1	15.8	21.5
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	4.0	5.1	6.5	8.4	9.6	12.2	15.9	21.5
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	4.1	5.2	6.6	8.5	9.7	12.3	16.1	21.5
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	4.1	5.2	6.7	8.6	9.8	12.5	16.3	21.5
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	12.6	16.4	21.6
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	16.6	21.8
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	16.7	22.0
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	16.9	22.2
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	17.1	22.4
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	4.4	5.5	7.1	9.1	10.4	13.2	17.2	22.7
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	17.4	22.9
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	17.6	23.1
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	23.3
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	4.5	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 59 PERCENT RELATIVE HUMIDITY

TEMPERATURE	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	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.6
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
3	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	1.9	2.5	3.1	3.8	4.5	5.2
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
5	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.8
6	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.0	4.9
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	2.5	3.3	4.1	5.0
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	2.5	3.3	4.2	5.2
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	2.5	3.3	4.2	5.2
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
11	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
12	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
13	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
14	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
15	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
16	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
17	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
18	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
19	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
20	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
21	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
22	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
23	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
24	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
26	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
27	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
29	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
30	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
31	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
32	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
33	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
34	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
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	2.5	3.3	4.2	5.2
36	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
37	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
38	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
39	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
40	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
41	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
43	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
47	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
48	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.2	5.2

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	0.7	0.9	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5
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	1.2	1.6	2.0	2.5
67	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
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	1.3	1.6	2.0	2.6
69	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7
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	1.3	1.7	2.1	2.7
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	1.3	1.7	2.1	2.7
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	1.7	2.1	2.8
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	1.7	2.2	2.8
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	1.7	2.2	2.8
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	1.7	2.2	2.8
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	2.2	2.9
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	2.2	2.9
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	2.3	2.9
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	2.3	2.9
80	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
81	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
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	2.4
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	2.4
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
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
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
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
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
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
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	2.6
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
92	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	1.7	2.1	2.6
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
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
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	1.3	1.7	2.2	2.7
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
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
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
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
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

T E M P E 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 60 PERCENT RELATIVE HUMIDITY

	BAND CENTER FREQUENCY, MZ															
	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	1.4	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	1.8	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	2.5
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	2.4
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	1.9	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	2.5
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	0.7	0.9	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	1.6	2.0	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	1.3	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	1.8	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	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	2.5
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	0.6	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 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	0.6	0.7	0.9	1.2	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	0.9	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	2.6	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	3.3
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	2.6	3.4
94	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
95	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	2.2	2.7	3.5
96	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	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	0.8	1.0	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	0.8	1.0	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	0.8	1.0	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	0.8	1.0	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 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	3.3
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	3.1
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 J I Y