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

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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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PREPARED BY

SAE COMMITTEE A-21, AIRCRAFT NOISE MEASUREMENT

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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.

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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

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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.

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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}.

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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.

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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 x 4800 = 5040 Hz, or

      at 8000 Hz (preferred) - i.e., 1.05 x 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.

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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

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

in dB/1000 ft for freq in Hz and temp in ^{o}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

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

in gm/m^3 for RH in percent and where B is the value of $\log_{10}$ (RH) for an absolute humidity of 1.0 gm/m^3. The quantity B is determined from the following relationship:

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

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

$$b_0 = 1.97274664$$

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

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

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

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

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

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

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

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

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.

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$h_{normalized}$	$\alpha_{normalized}$
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

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For calculation purposes, these coordinate pairs may be stored in the memory of the digital computer. Values of $\alpha_{normalized}$ at intermediate values of $h_{normalized}$ 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 $\alpha_{normalized}$ (determined in step 5). That is,

$$\alpha_{mol} = \alpha_{molmax} \times \alpha_{normalized} \tag{5}$$

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

$$\alpha = \alpha_{class} + \alpha_{mol} \tag{6}$$

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:

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

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

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

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

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

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5.8.1 Classical Absorption Coefficient, α_{class}

From Equation (1),

$$\alpha_{class} = [10 \exp(-0.48399)]\,[10 \exp(2.05 \log_{10}(\text{freq}/1000) + 6.33 \times 10^{-4} \times (9/5) \times \text{temp} + 6.33 \times 10^{-4} \times 32 - 1.45325)]$$

$$= 10^{[2.05 \log_{10}(\text{freq}/1000) + 1.1394 \times 10^{-3} \times \text{temp} - 1.916984]} \quad (7)$$

in dB/100m for frequency in Hz and temperature in ^{o}C.

5.8.2 Absolute Humidity, h_a

From Equation (2),

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

in gm/m^3 for RH in percent and temperature in ^{o}C.

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

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

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

$$-2.288074 \times 10^{-2}(9/5\ \text{temp} + 32)$$

$$9.589 \times 10^{-5}(9/5\ \text{temp} + 32)^2$$

$$-3 \times 10^{-7}(9/5\ \text{temp} + 32)^3$$

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

$$b_0 = 1.328924$$

$$b_1 = -3.179768 \times 10^{-2},\ ^{o}C^{-1}$$

$$b_2 = 2.173716 \times 10^{-4},\ ^{o}C^{-2}$$

$$b_3 = -1.7496 \times 10^{-6},\ ^{o}C^{-3}$$

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

Same as Equation (3),

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

in gm/m^3 with frequency in Hz.

5.8.4 Maximum Molecular Absorption Coefficient, α_{molmax}

From Equation (4),

$$\alpha_{molmax} = [10 \exp(-0.48399)][10 \exp(\log_{10}(freq/1) + 4.6833 \times 10^{-3} \times (9/5) \times temp + 4.6833 \times 10^{-3} \times 32 - 2.4215)]$$

$$= 10^{[\log_{10}(freq/1) + 8.42994 \times 10^{-3} \times temp - 2.755624]} \quad (10)$$

in dB/100m with freq in Hz and temp in ^{o}C.

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

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

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5.8.6 Molecular Absorption Coefficient, α_{mol}

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

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

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:

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

in dB/100m for temperatures in ^{o}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 $\alpha_{normalized}$ from values of $h_{normalized}$. 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

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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 $0^{\circ}F$ ($-18^{\circ}C$) or warmer than $100^{\circ}F$ ($38^{\circ}C$).

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10. APPENDIX A

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

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APPENDIX A
1/1 OCTAVES

```
C     ATMOSPHERIC ABSORPTION COEFFICIENT CALCULATION AS A FUNCTION OF
C     TEMPERATURE AND RELATIVE HUMIDITY FOR FULL OCTAVE BANDS.
C     NOTE- TEMPERATURE IS IN DEGREES FAHRENHEIT, RELATIVE HUMIDITY IS
C     IN PERCENT, AND ABSORPTION COEFFICIENTS ARE IN DB/1000 FEET.
C     THIS PROGRAM DOES NOT USE ANY INPUT DATA.
      DIMENSION IFRQ(8),FREQ(8),DEGREE(50),TABLE(59)
      DIMENSION HMOLMX(8,100),AMOLMX(8,100),HUMRAT(8,100),ALPRAT(8,100)
      DIMENSION ALPMOL(8,100),ALPCLA(8,100),ALPHA(8,100)
      EQUIVALENCE (NN,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
     1,0.8,0.975,0.9,0.996,1.0,1.0,1.1,1.0,0.97,1.2,0.9,1.3,0.84,1.5,0.75,
     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,
     40.205,6.5,0.2,7.0,0.2,10.0,0.2/
      DATA  IFRQ/63,125,250,500,1000,2000,4000,8000/
      DATA  FREQ/63.0,125.0,250.0,500.0,1000.0,2000.0,4000.0,5880.0/
      DATA DEGREE/1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1HT,1HE,1HM,1HP,
     1            1HE,1HR,1HA,1HT,1HU,1HR,1HE,1H,,1H ,1HD,1HE,1HG,1H°,
     2            1HE,1HE,1HS,1H ,1HF,1HA,1HH,1HP,1HE,1HN,1HH,1HE,1HI,
     3            1HT,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H /
   55 FORMAT(1H1, 27X,'ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 100
     1 FT FOR FULL OCTAVE BANDS',/30X,'OF NOISE AS A FUNCTION OF TEMPER
     2ATURE FOR',I4,' PERCENT RELATIVE HUMIDITY')
   60 FORMAT(1HO,21X,'BAND CENTER FREQUENCY, HZ',36X,'BAND CENTER FREQUE
     1NCY, HZ')
   65 FORMAT(1H ,8X,8I6,13X,8I6/)
   70 FORMAT(1H ,3X,A1,I3,1X,8F6.1,8X,A1,I3,1X,8F6.1)
      NN=29
      DO 180 IRH=1,100
      RELHUM=IRH
      DO 160 K=1,100
      TEMP=K
      B =1.97274664-0.022880748*TEMP+0.000095889*TEMP**2-0.0000003*TEMP**3
      ABSHUM = 10.0 **(ALOG10(RELHUM)- B)
      DO 150 J=1,8
      AMOLMX(J,K)=10.0**(ALOG10(FREQ(J))*0.00469333*TEMP-2.4215)
      HMOLMX(J,K) = (FREQ(J)/ 1010.0)**0.5
      HUMRAT(J,K) = ABSHUM/HMOLMX(J,K)
      L=3
      IF(HUMRAT(J,K).LE.TABLE(2))GO TO 130
      DO 90 I=4,58,2
      L=I+1
   80 IF(TABLE(I) - HUMRAT(J,K))90,130,110
   90 CONTINUE
      GO TO 130
  110 I=I-2
      IF(I.GE.4)GO TO 120
      I=I+2
  120 XA1 = HUMRAT(J,K) - TABLE(I)
      XA0 = HUMRAT(J,K) - TABLE(I-2)
      XA2 = HUMRAT(J,K) - TABLE(I+2)
      X01 = TABLE(I-2)  - TABLE(I)
      X02 = TABLE(I-2)  - TABLE(I+2)
      X12 = TABLE(I)    - TABLE(I+2)
      ALPRAT(J,K)=TABLE(I-1)*(XA1/X01)*(XA2/X02)-
     1            TABLE(I+1)*(XA0/X01)*(XA2/X12)+
     2            TABLE(I+3)*(XA0/X02)*(XA1/X12)
      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*ALOG10(FREQ(J)/1000.0)+0.000633*TEMP
     1            -1.45325)
  150 ALPHA(J,K)= ALPCLA(J,K)+ALPMOL(J,K)
  160 CONTINUE
      WRITE(6,55) IRH
      WRITE(6,60)
      WRITE(6,65) (IFRQ(J),J=1,8),(IFRQ(J),J=1,8)
      DO 170 K=1,50
      ITEMP1 = K
      ITEMP2 = K+50
  170 WRITE(6,70) DEGREE(K),ITEMP1,(ALPHA(J,K),J=1,8),DEGREE(K),ITEMP2,
     1(ALPHA(J,K+50),J=1,8)
  180 CONTINUE
      STOP
      END
```

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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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APPENDIX B

1/3 OCTAVES

```
C     ATMOSPHERIC ABSORPTION COEFFICIENT CALCULATION AS A FUNCTION OF
C     TEMPERATURE AND RELATIVE HUMIDITY FOR ONE-THIRD OCTAVE BANDS.
C     NOTE- TEMPERATURE IS IN DEGREES FAHRENHEIT, RELATIVE HUMIDITY IS
C     IN PERCENT, AND ABSORPTION COEFFICIENTS ARE IN DB/1000 FEET.
C     THIS PROGRAM DOES NOT USE ANY INPUT DATA.
      DIMENSION IFRQ(24),FREQ(24),DEGREE(100),TABLE(59)
      DIMENSION HMOLMX(24,100),AMOLMX(24,100),HUMRAT(24,100)
      DIMENSION ALPRAT(24,100),ALPMOL(24,100),ALPCLA(24,100)
      DIMENSION ALPHA(24,100)
      EQUIVALENCE (NN,TABLE(1))
      DATA TABLE /29.0,0.00,0.00,0.250,0.315,0.50,0.70,0.6,0.84,0.7,0.93
     1,0.8,0.975,0.9,0.996,1.0,1.0,1.1,0.97,1.2,0.9,1.3,0.84,1.5,0.75,
     2 1.7,0.67,2.0,0.57,2.3,0.495,2.5,0.45,2.8,0.4,3.0,0.37,3.30,0.33,
     3 3.6,0.3,4.15,0.26,4.45,0.245,4.80,0.23,5.25,0.22,5.7,0.21,6.05,
     4 0.205,6.5,0.2,7.0,0.2,10.0,0.2/
      DATA  IFRQ/50,63,80,100,125,160,200,250,315,400,500,630,800,1000,
     A          1250,1600,2000,2500,3150,4000,5000,6300,8000,10000/
      DATA  FREQ/50.0,63.0,80.0,100.0,125.0,160.0,200.0,250.0,315.0,
     1          400.0,500.0,630.0,800.0,1000.0,1250.0,1600.0,2000.0,
     2          2500.0,3150.0,4000.0,4500.0,5600.0,7100.0,9000.0/
      DATA DEGREE/1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1HT,1HE,1HM,1HP,
     1            1HE,1HR,1HA,1HT,1HU,1HR,1HE,1H,,1H ,1HD,1HE,1HG,1HR,
     2            1HE,1HE,1HS,1H ,1HF,1HA,1HH,1HR,1HE,1HN,1HH,1HE,1HI,
     3            1HT,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,
     4            1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1HT,1HE,1HM,1HP,
     5            1HE,1HR,1HA,1HT,1HU,1HR,1HE,1H,,1H ,1HD,1HE,1HG,1HR,
     6            1HE,1HE,1HS,1H ,1HF,1HA,1HH,1HP,1HE,1HN,1HH,1HE,1HI,
     7            1HT,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H ,1H /
  350 FORMAT(1HL,  30X,'ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 10
     A00 FT FOR ONE-THIRD OCTAVE',/29X,'BANDS OF NOISE AS A FUNCTION OF
     2TEMPERATURE FOR',I4,'  PERCENT RELATIVE HUMIDITY')
  351 FORMAT(1H0,54X'BAND CENTER FREQUENCY, HZ')
  352 FORMAT(1H ,6X,2315,16,/)
  353 FORMAT(1H ,A1,I5,23F5.1,F6.1)
      NN=29
      DO 300 IRH=1,100
      RELHUM=IRH
      DO 200 K=1,100
      TEMP=K
      B =1.97274664-0.02288074*TEMP+0.00009589*TEMP**2-0.00000003*TEMP**3
      ABSHUM = 10.0 **(ALOG10(RELHUM) - 9)
      DO 200 J=1,24
      AMOLMX(J,K)=10.0**(ALOG10(FREQ(J))+0.00468333*TEMP-2.4215)
      HMOLMX(J,K) = (FREQ(J)/ 1013.0)**0.5
      HUMRAT(J,K) = ABSHUM/HMOLMX(J,K)
      L=3
      IF(HUMRAT(J,K).LE.TABLE(2))GO TO 130
   60 DO 90 I=4,58,2
      L=I+1
   80 IF(TABLE(I) - HUMRAT(J,K))90,130,110
   90 CONTINUE
      GO TO 130
  110 I=I-2
      IF(I.GE.4)GO TO 120
      I=I+2
  120 XA1 = HUMRAT(J,K) - TABLE(I)
      XA0 = HUMRAT(J,K) - TABLE(I-2)
      XA2 = HUMRAT(J,K) - TABLE(I+2)
      X01 = TABLE(I-2)  - TABLE(I)
      X02 = TABLE(I-2)  - TABLE(I+2)
      X12 = TABLE(I)    - TABLE(I+2)
      ALPRAT(J,K)=TABLE(I-1)*(XA1/X01)*(XA2/X02)-
     1           TABLE(I+1)*(XA0/X01)*(XA2/X12)+
     2           TABLE(I+3)*(XA0/X02)*(XA1/X12)
      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*ALOG10(FREQ(J)/1000.0)+(0.000633*TEMP)
     1           -1.45325)
  200 ALPHA(J,K)= ALPCLA(J,K)+ALPMOL(J,K)
      WRITE(6,350) IRH
      WRITE(6,351)
      WRITE(6,352) (IFRQ(J),J=1,24)
      WRITE(6,353)((DEGREE(I),I,(ALPHA(J,I),J=1,24)),I=1,50)
      WRITE(6,350) IRH
      WRITE(6,351)
      WRITE(6,352) (IFRQ(J),J=1,24)
      WRITE(6,353)((DEGREE(I),I,(ALPHA(J,I),J=1,24)),I=51,100)
  300 CONTINUE
      STOP
      END
```

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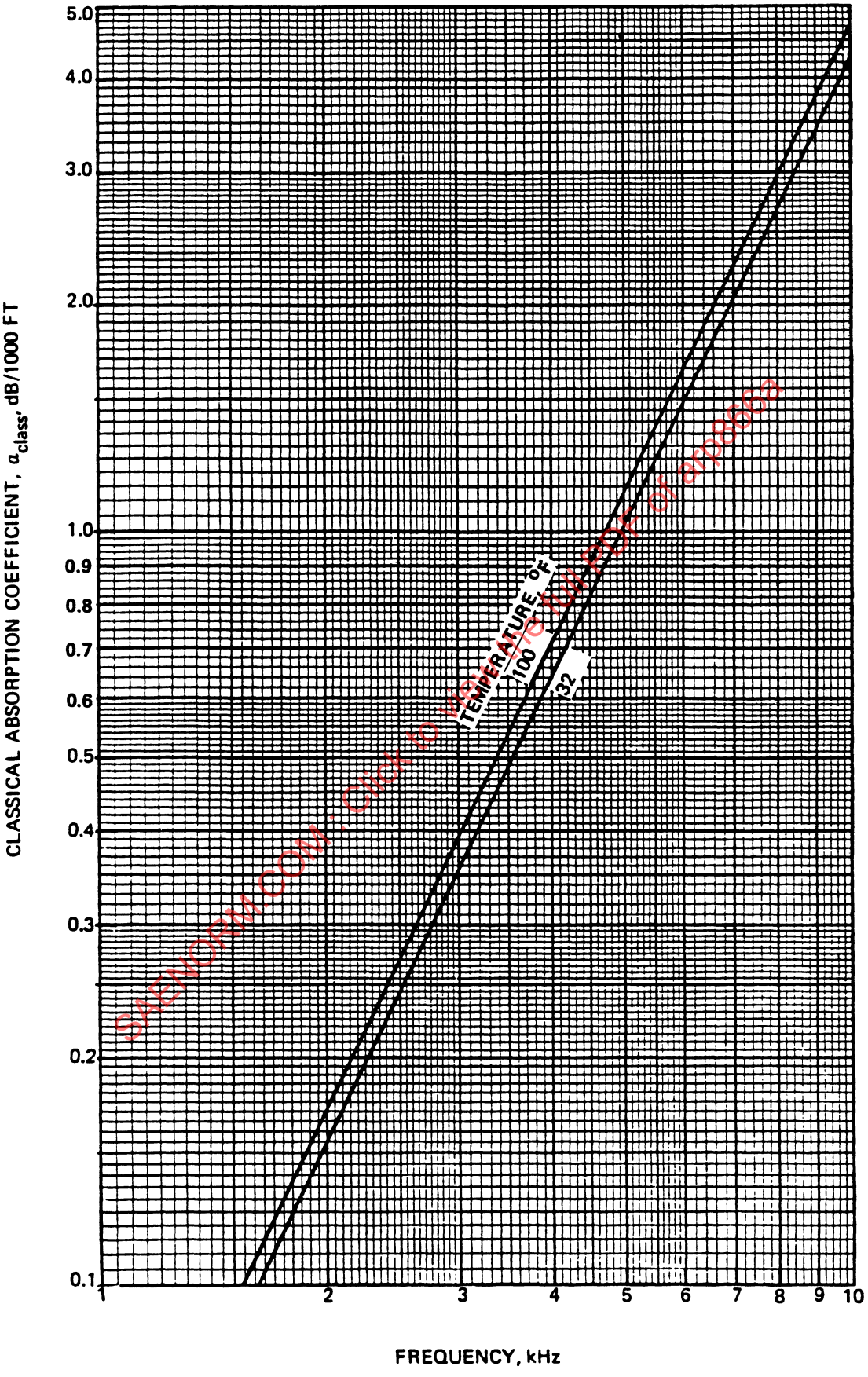
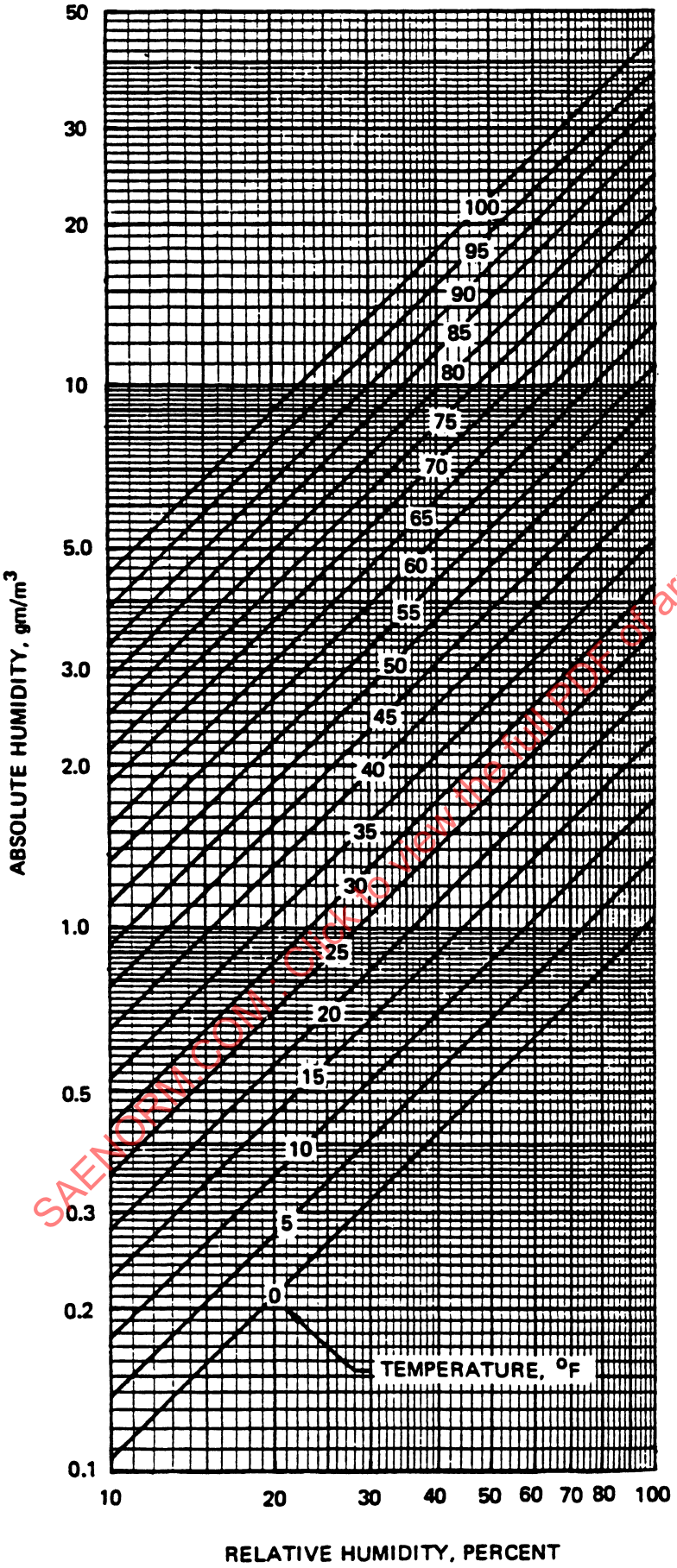
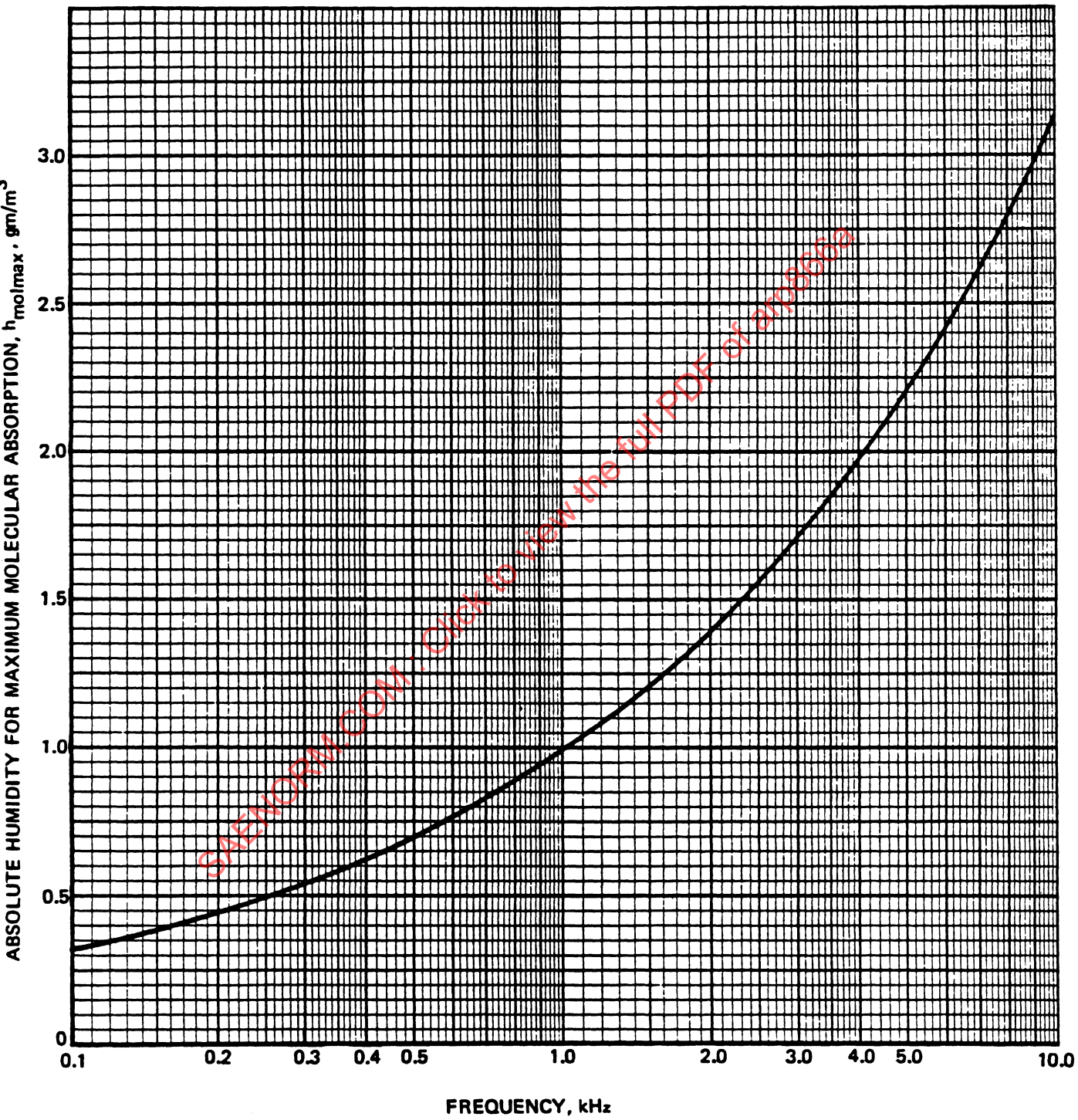


FIGURE 1. CLASSICAL ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES



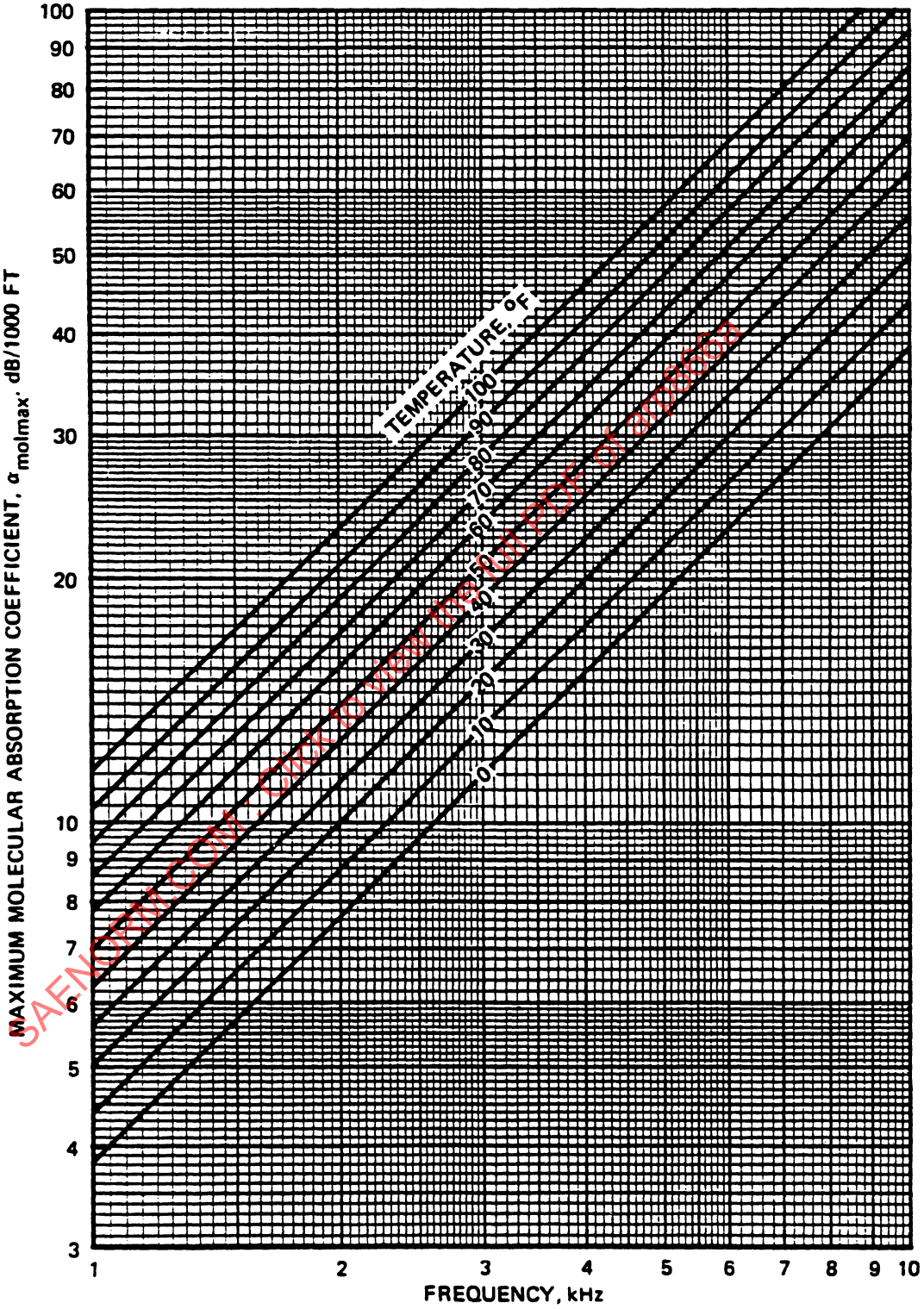
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FIGURE 2. ABSOLUTE HUMIDITY AS A FUNCTION OF RELATIVE HUMIDITY FOR VARIOUS AIR TEMPERATURES



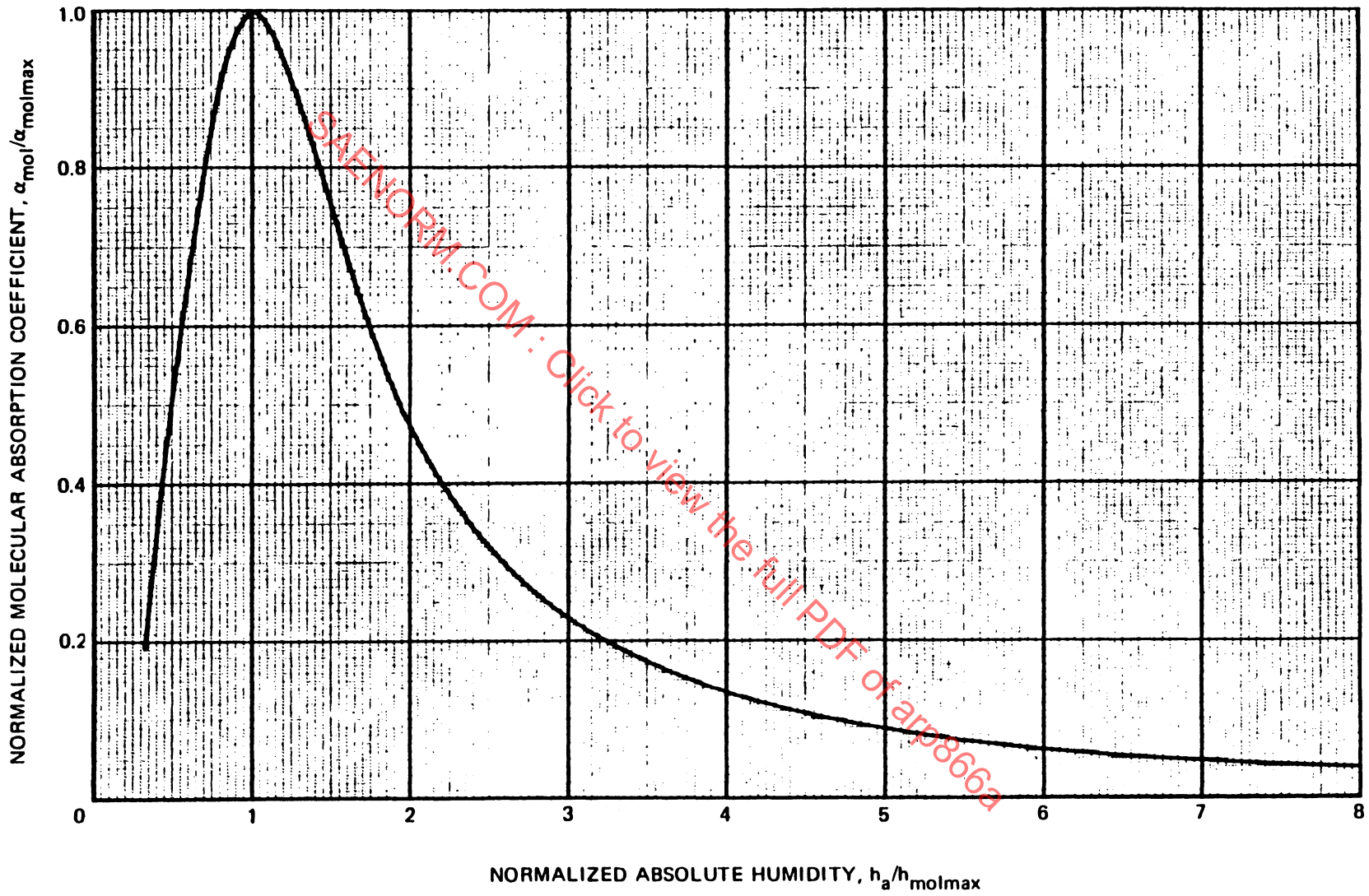
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FIGURE 3. ABSOLUTE HUMIDITY FOR MAXIMUM MOLECULAR ABSORPTION AS A FUNCTION OF FREQUENCY



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



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

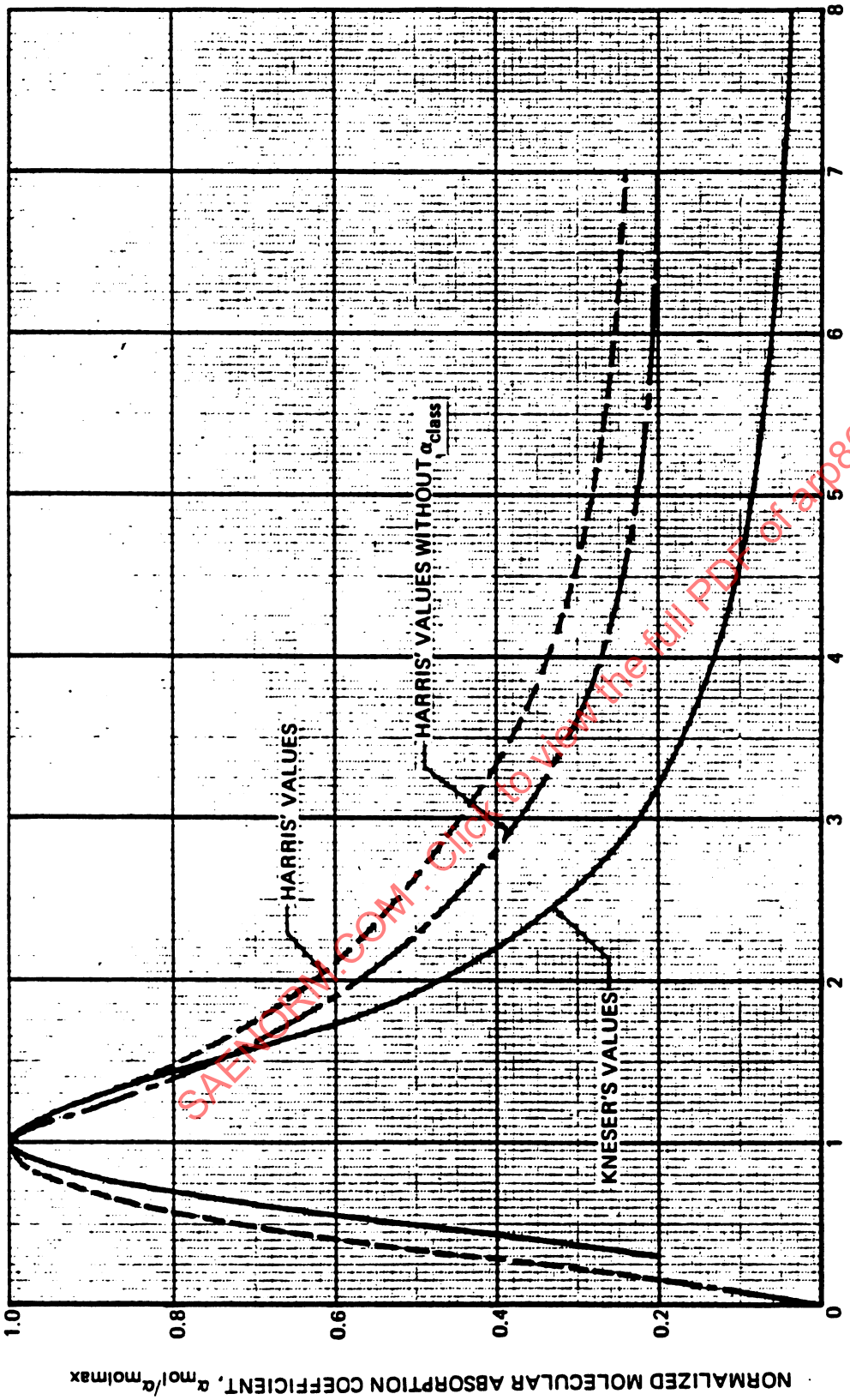


FIGURE 6. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY. (KNESER'S VALUES FROM REFERENCE 1; HARRIS' VALUES FROM REFERENCE 4.)

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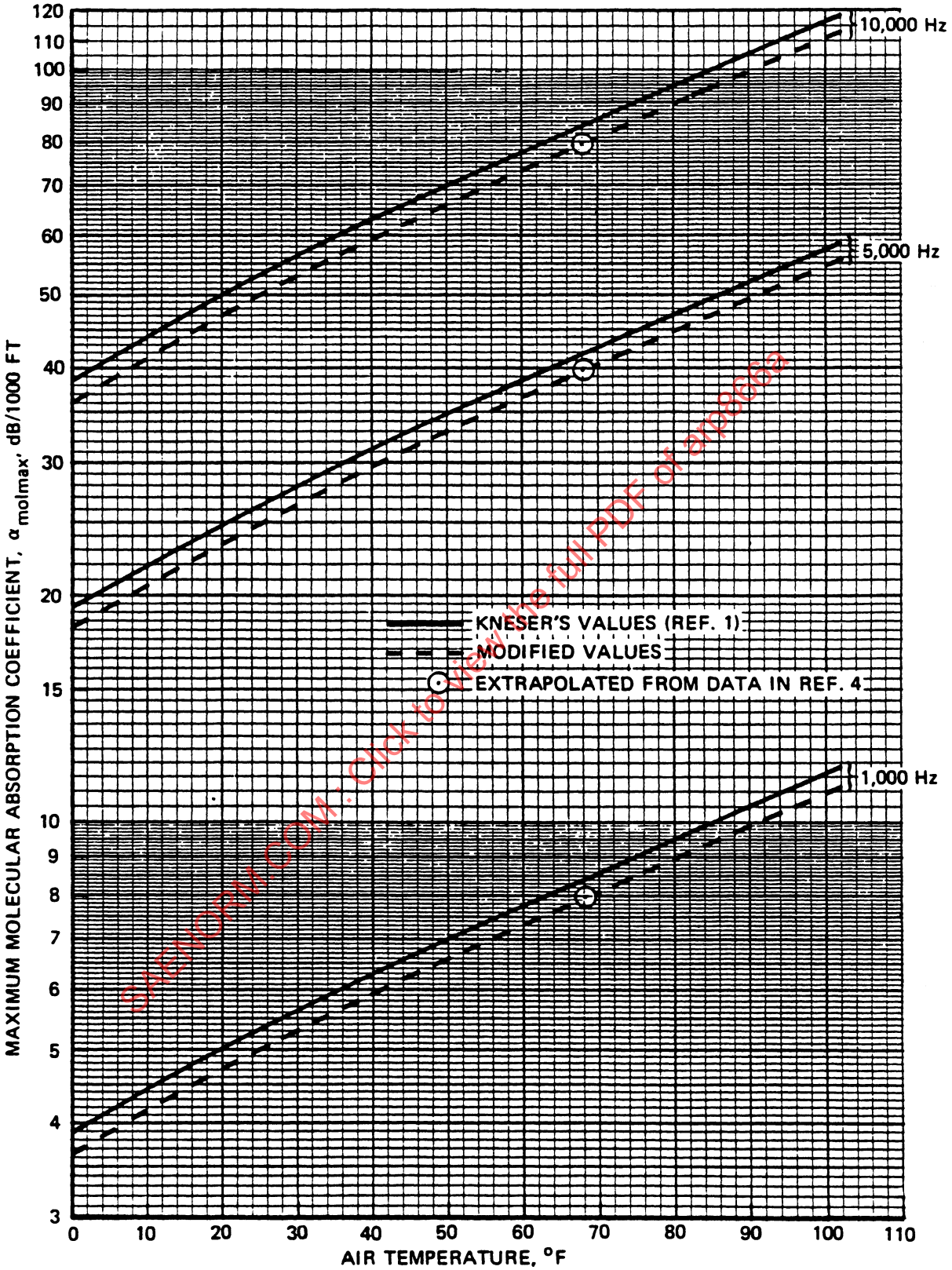


FIGURE 7. THEORETICAL AND MODIFIED MAXIMUM MOLECULAR ABSORPTION COEFFICIENTS AS A FUNCTION OF TEMPERATURE FOR THREE FREQUENCIES

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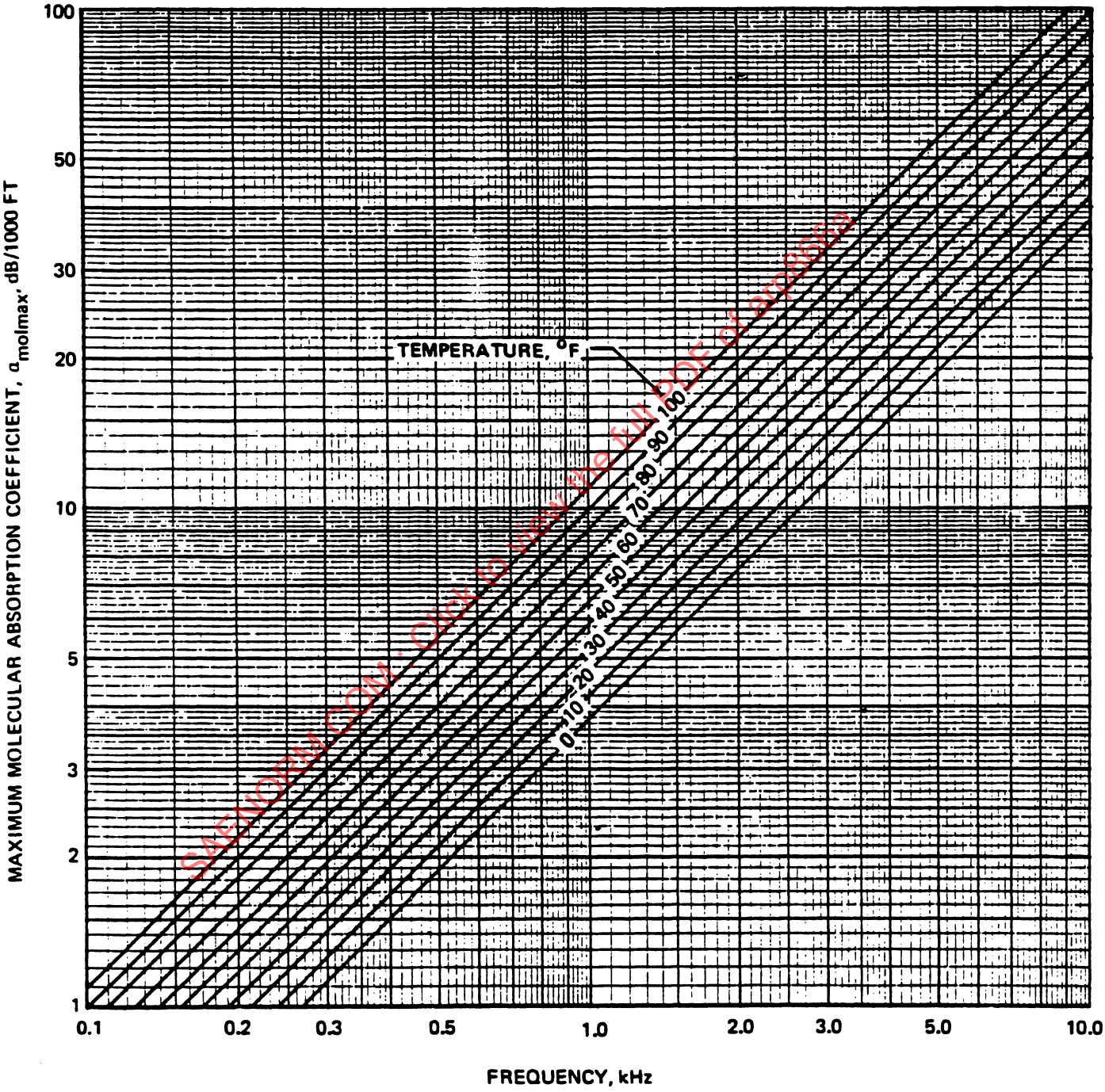
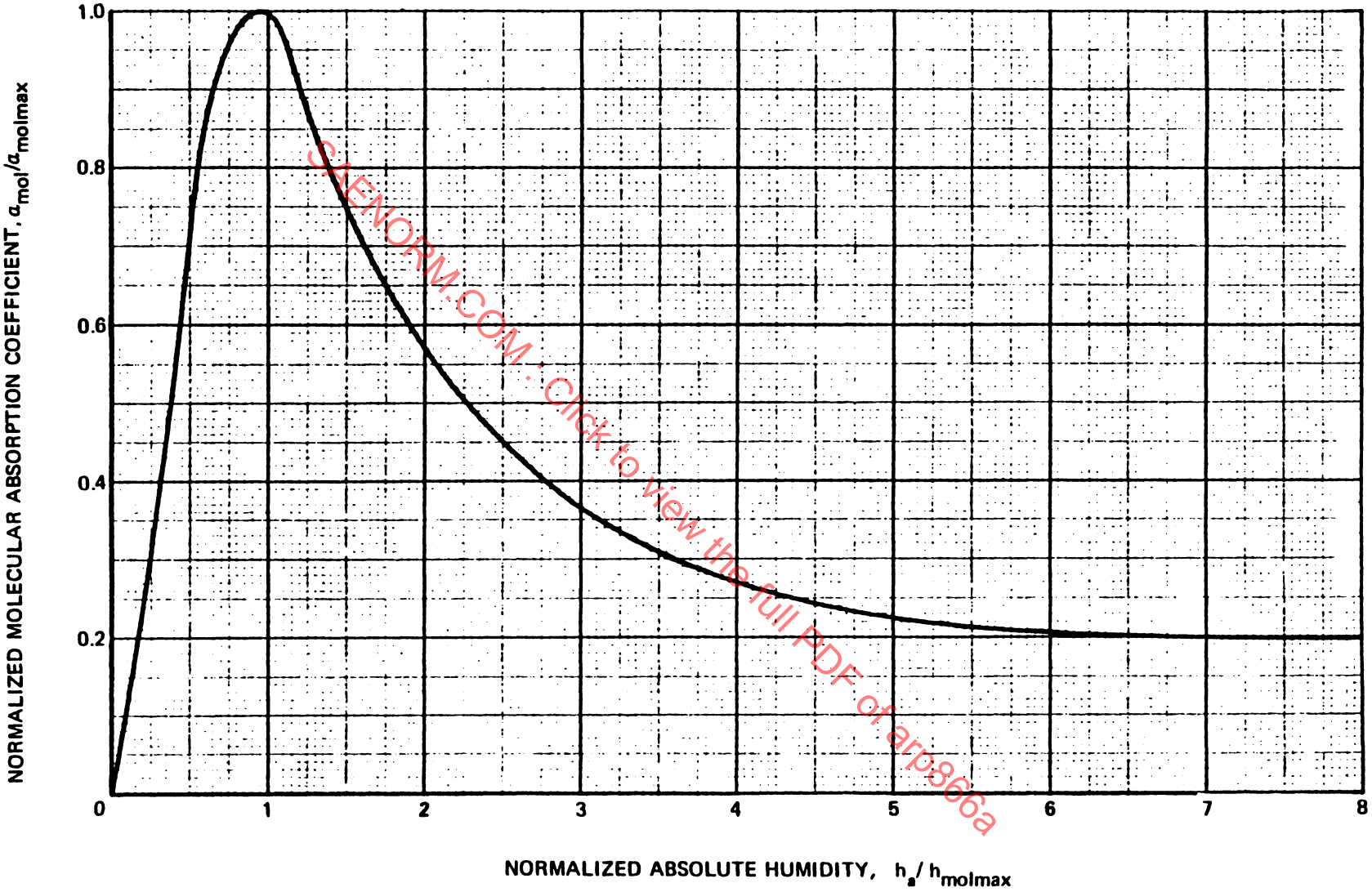


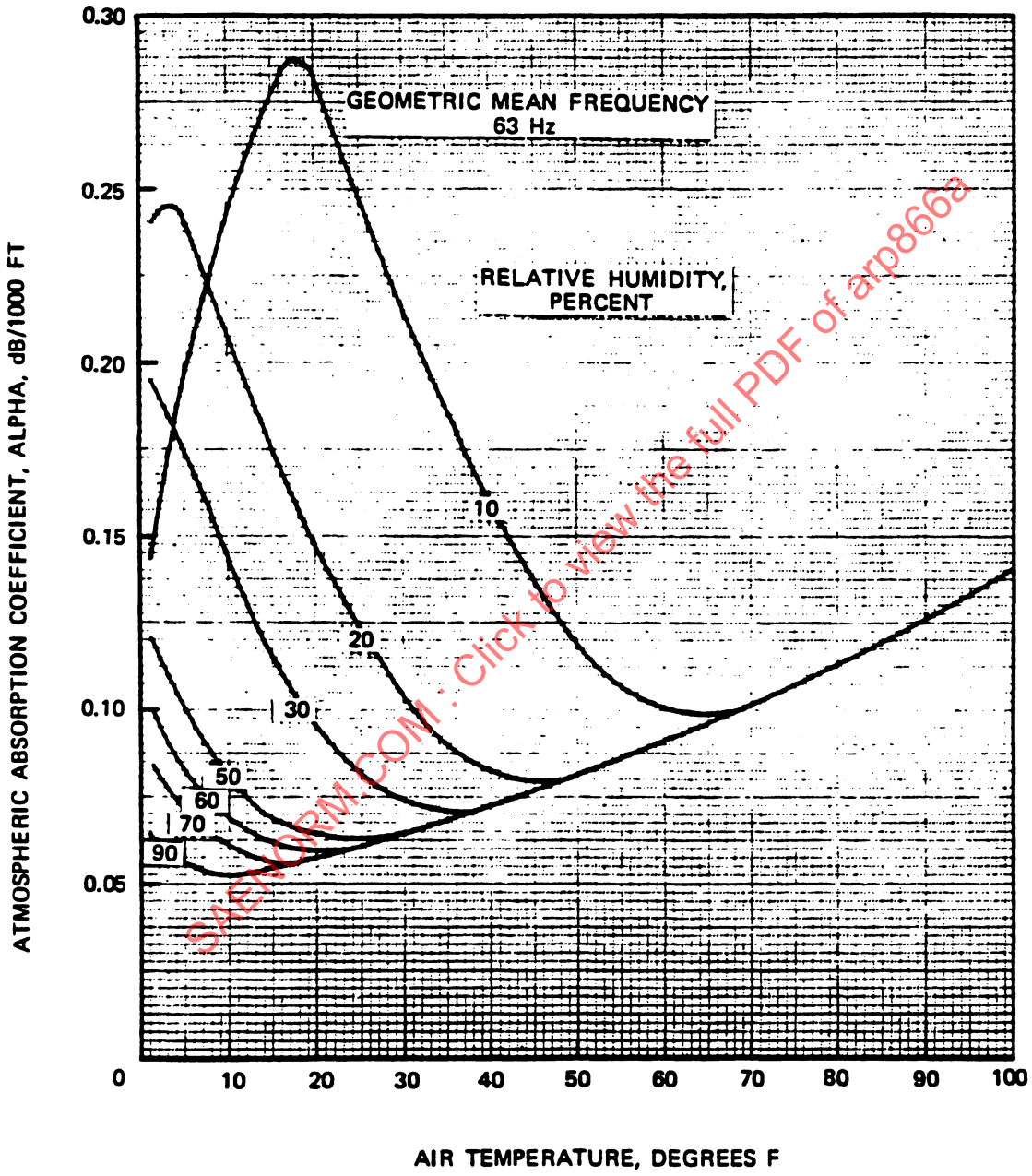
FIGURE 8. MAXIMUM MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF FREQUENCY FOR VARIOUS AIR TEMPERATURES

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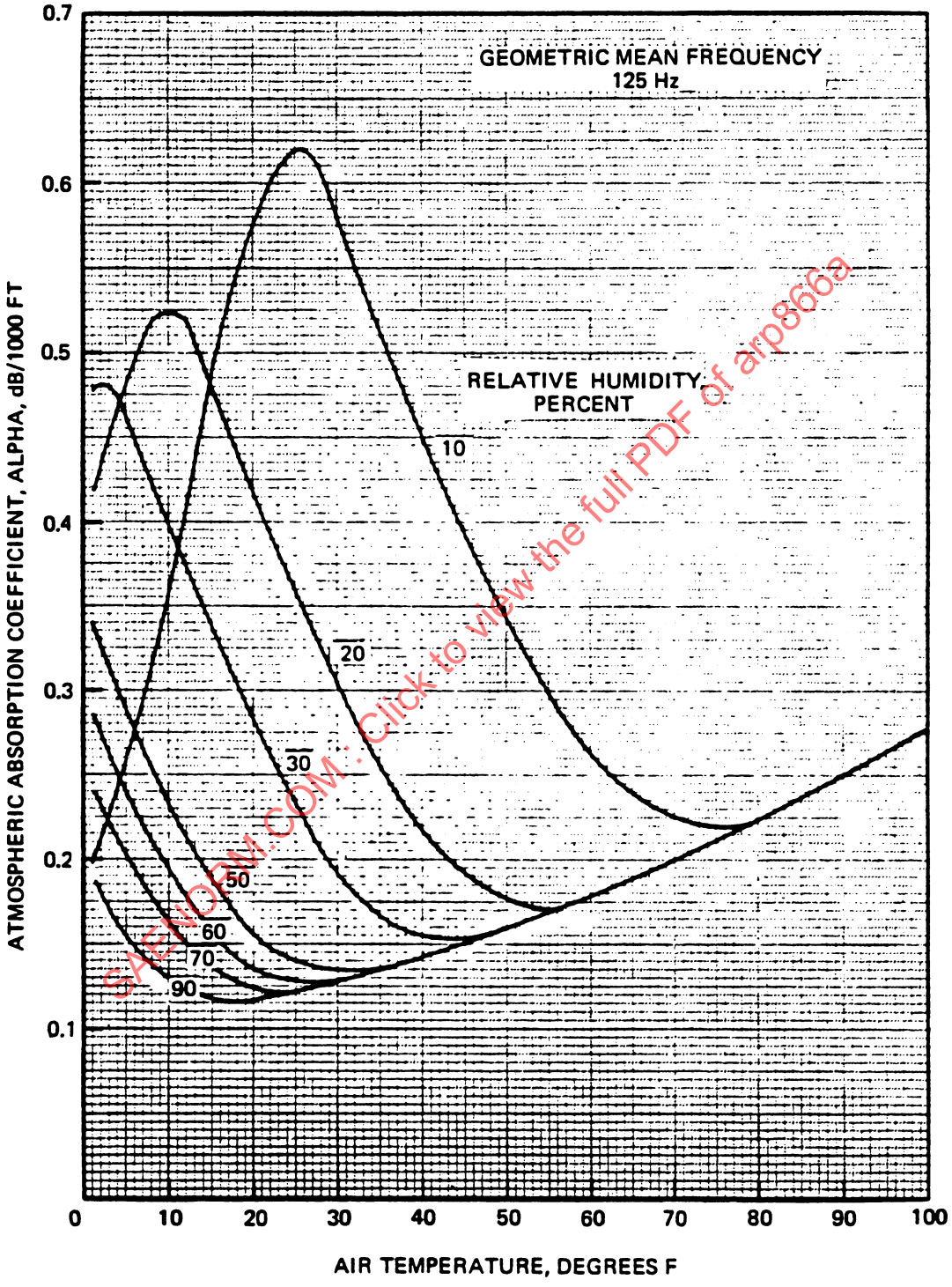
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FIGURE 9. NORMALIZED MOLECULAR ABSORPTION COEFFICIENT AS A FUNCTION OF NORMALIZED ABSOLUTE HUMIDITY



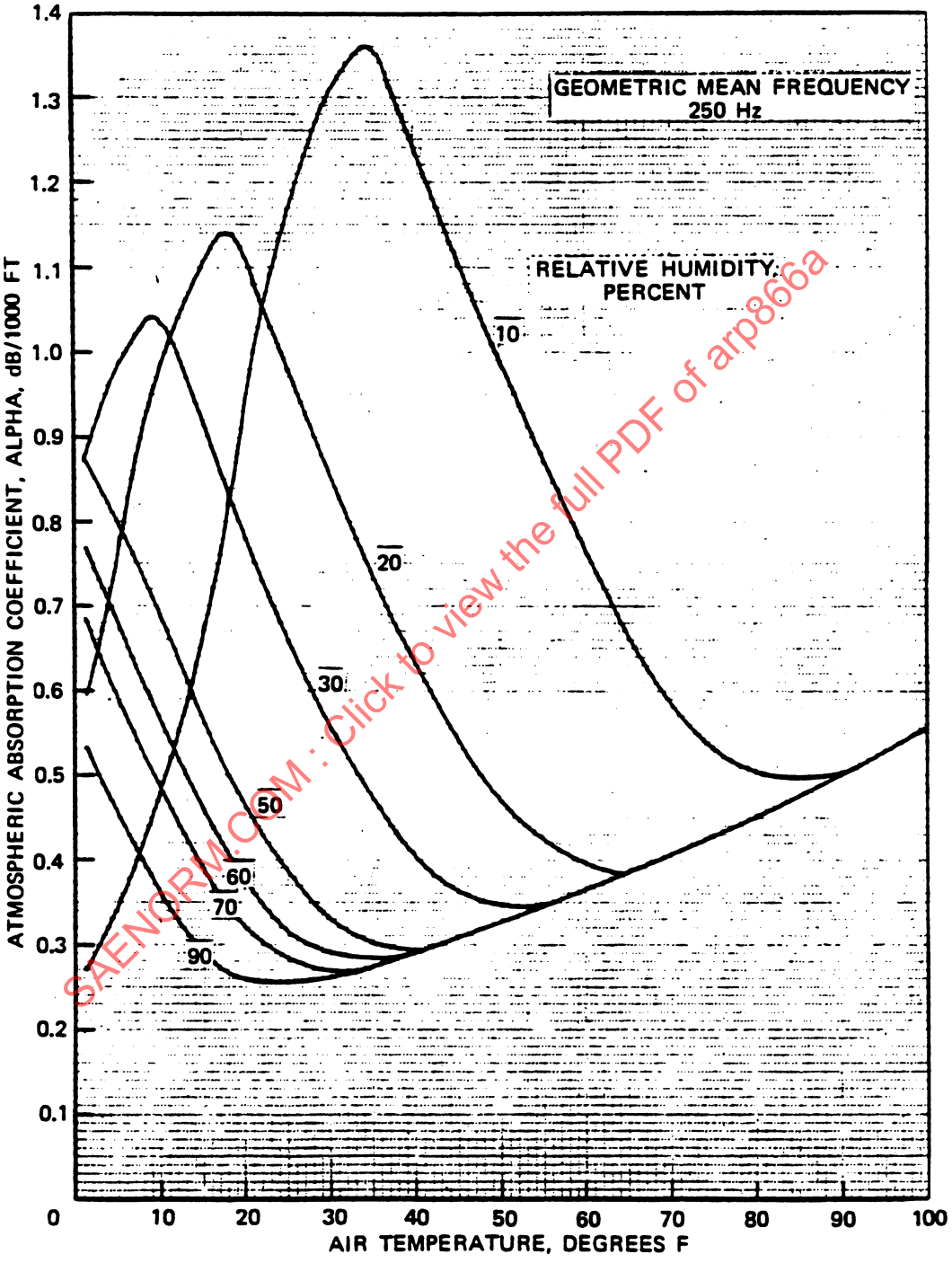
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FIGURE 10. ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/1-OCTAVE BANDS OF NOISE FOR DIFFERENT TEMPERATURES AND HUMIDITIES



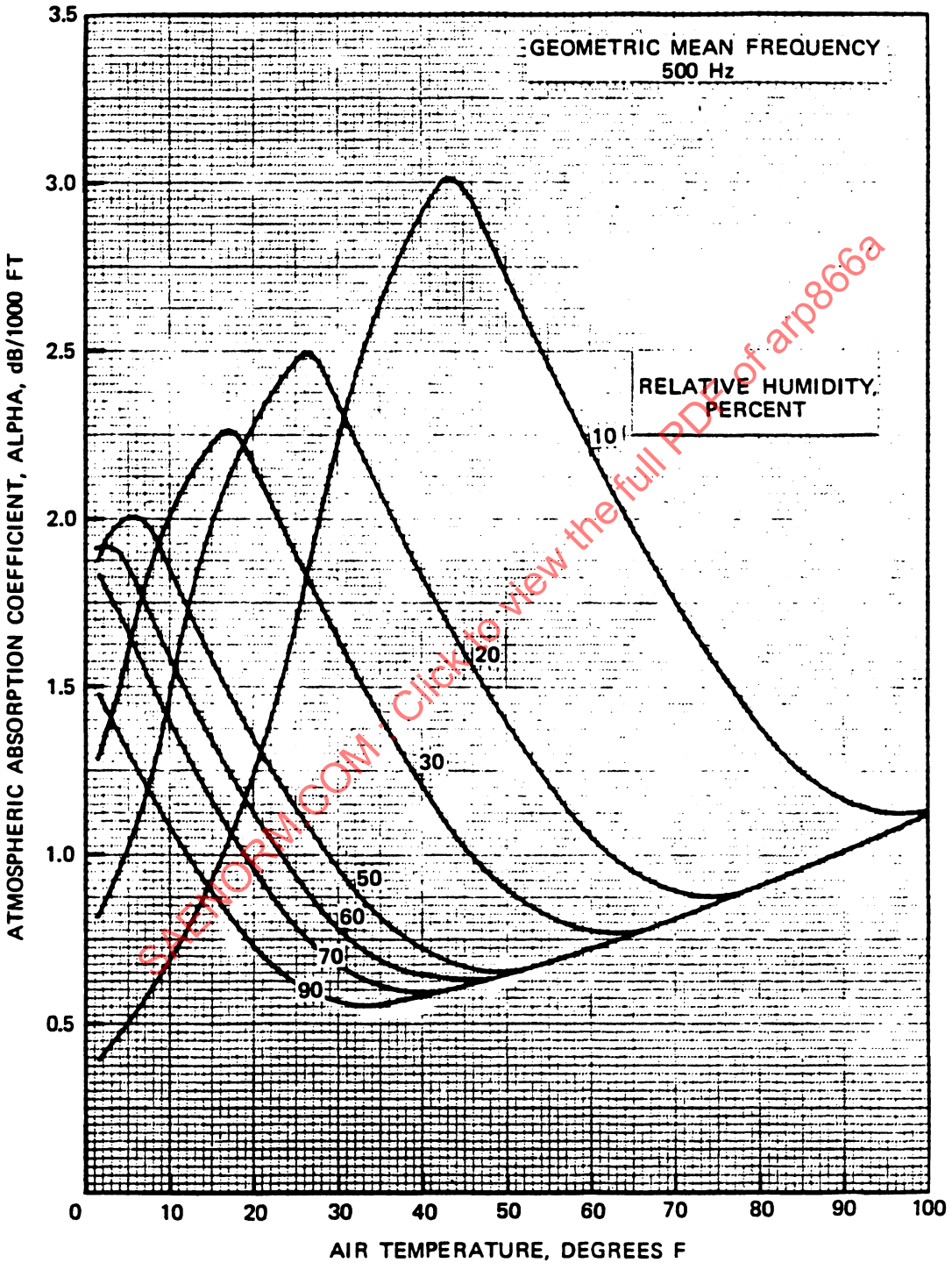
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FIGURE 10. CONTINUED



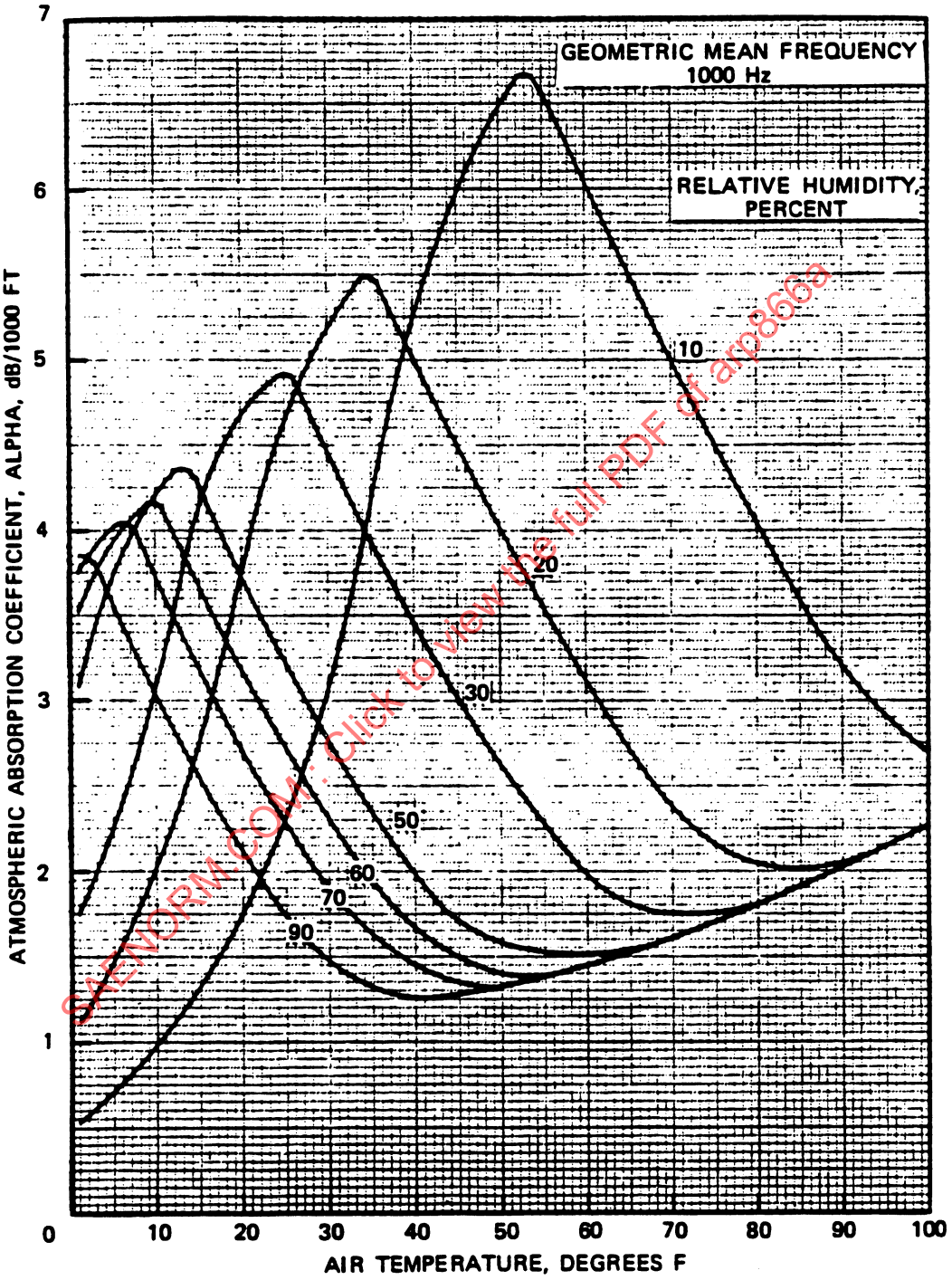
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FIGURE 10. CONTINUED



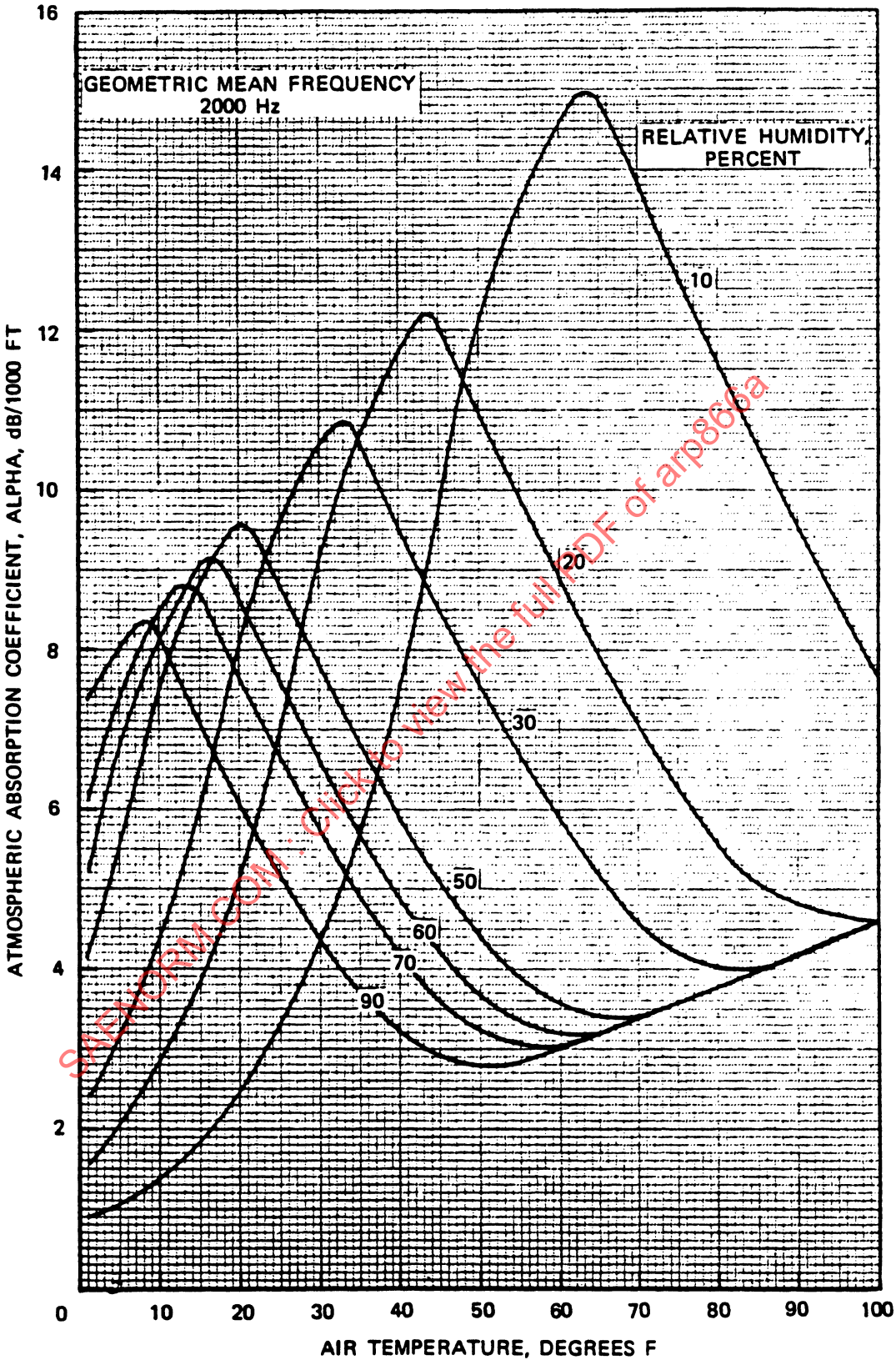
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FIGURE 10. CONTINUED



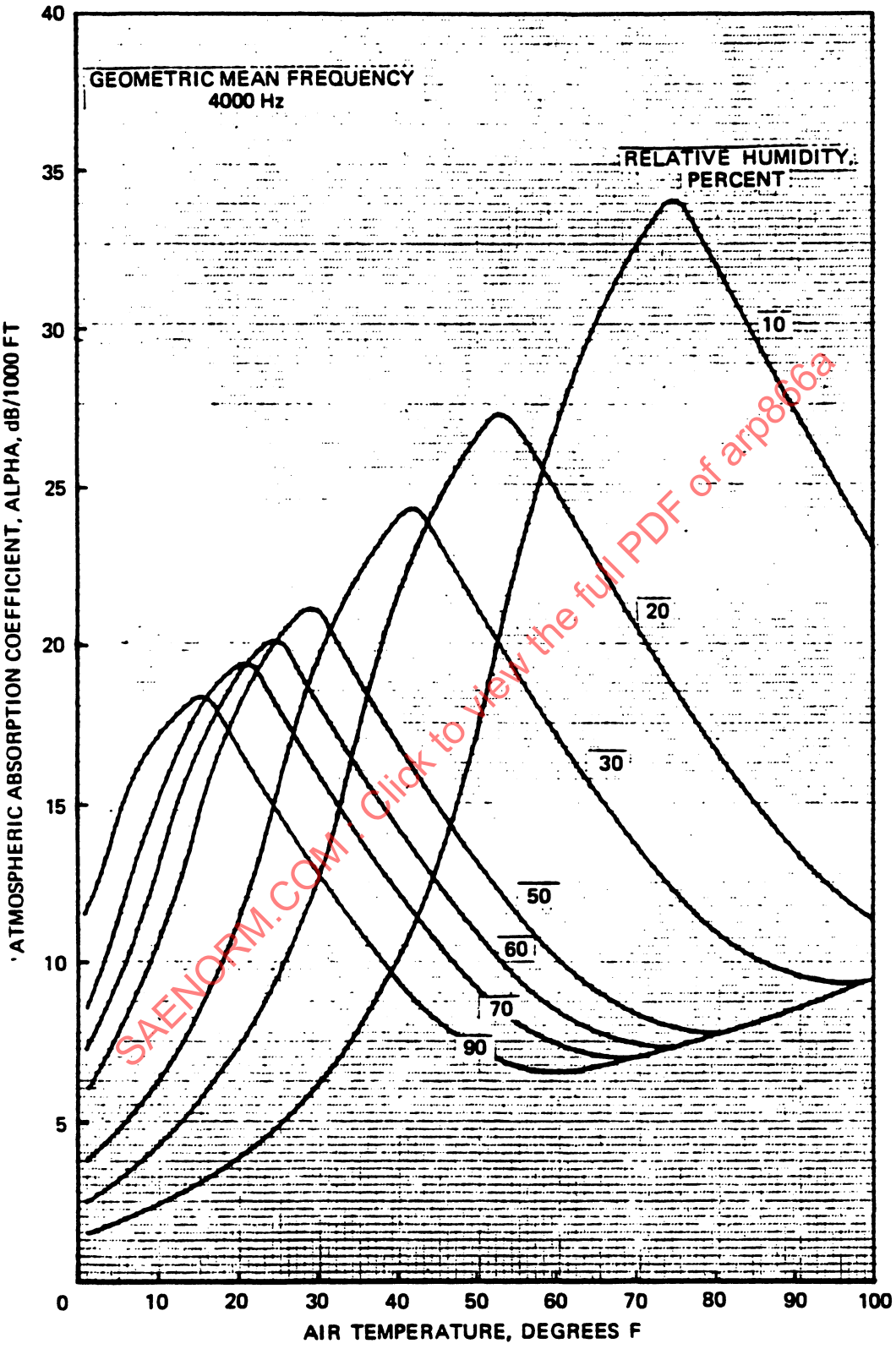
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FIGURE 10. CONTINUED



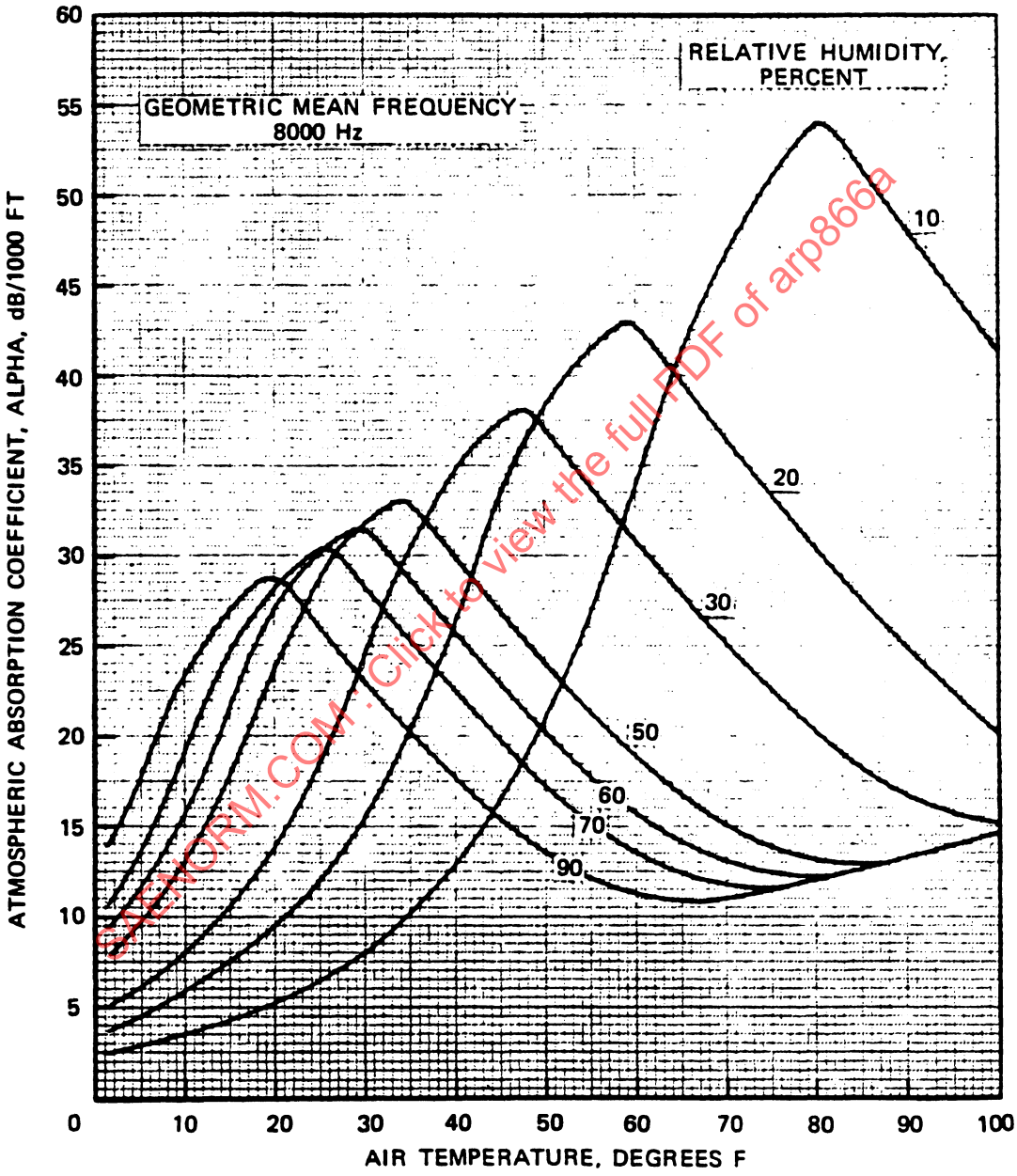
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FIGURE 10. CONTINUED



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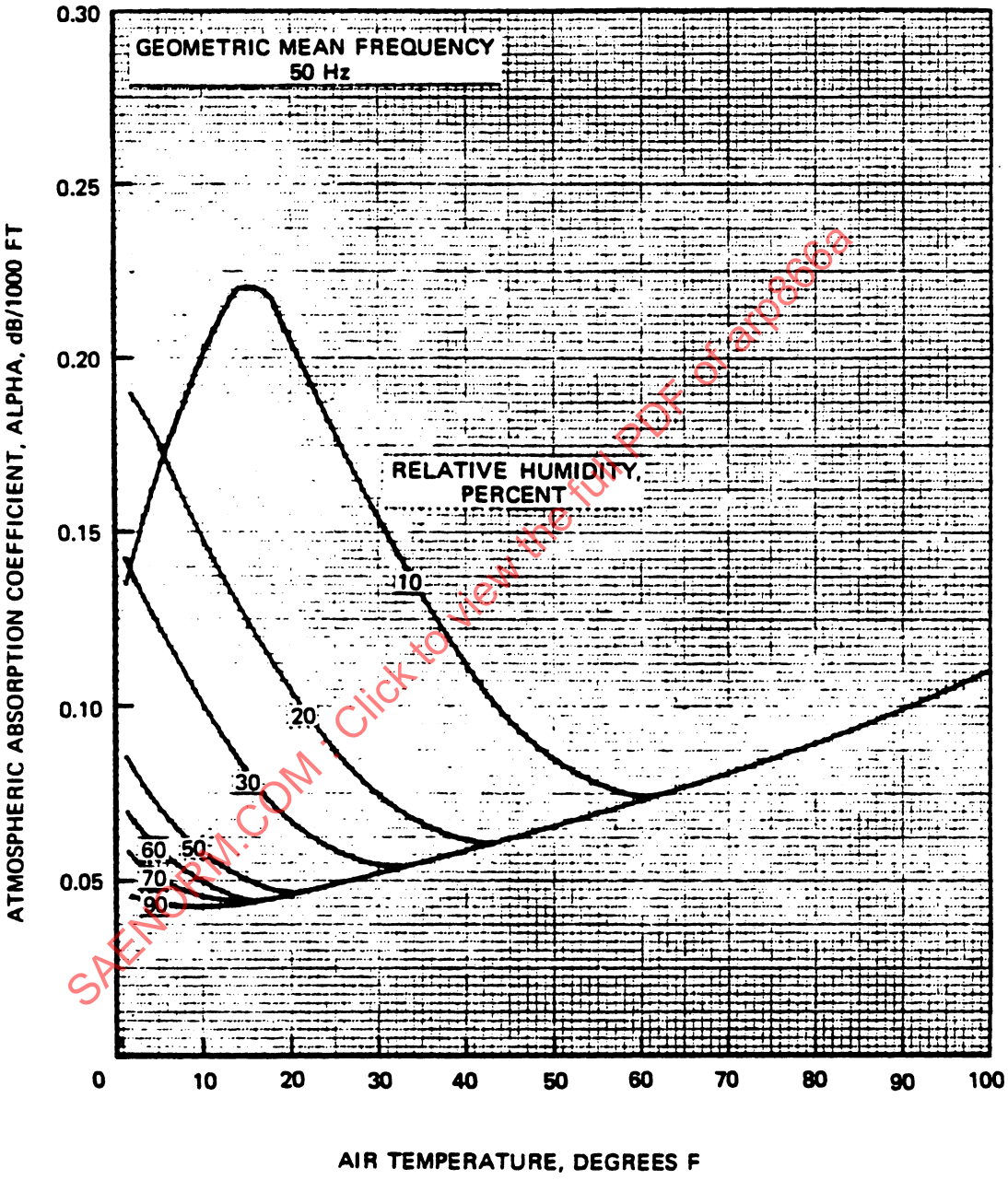
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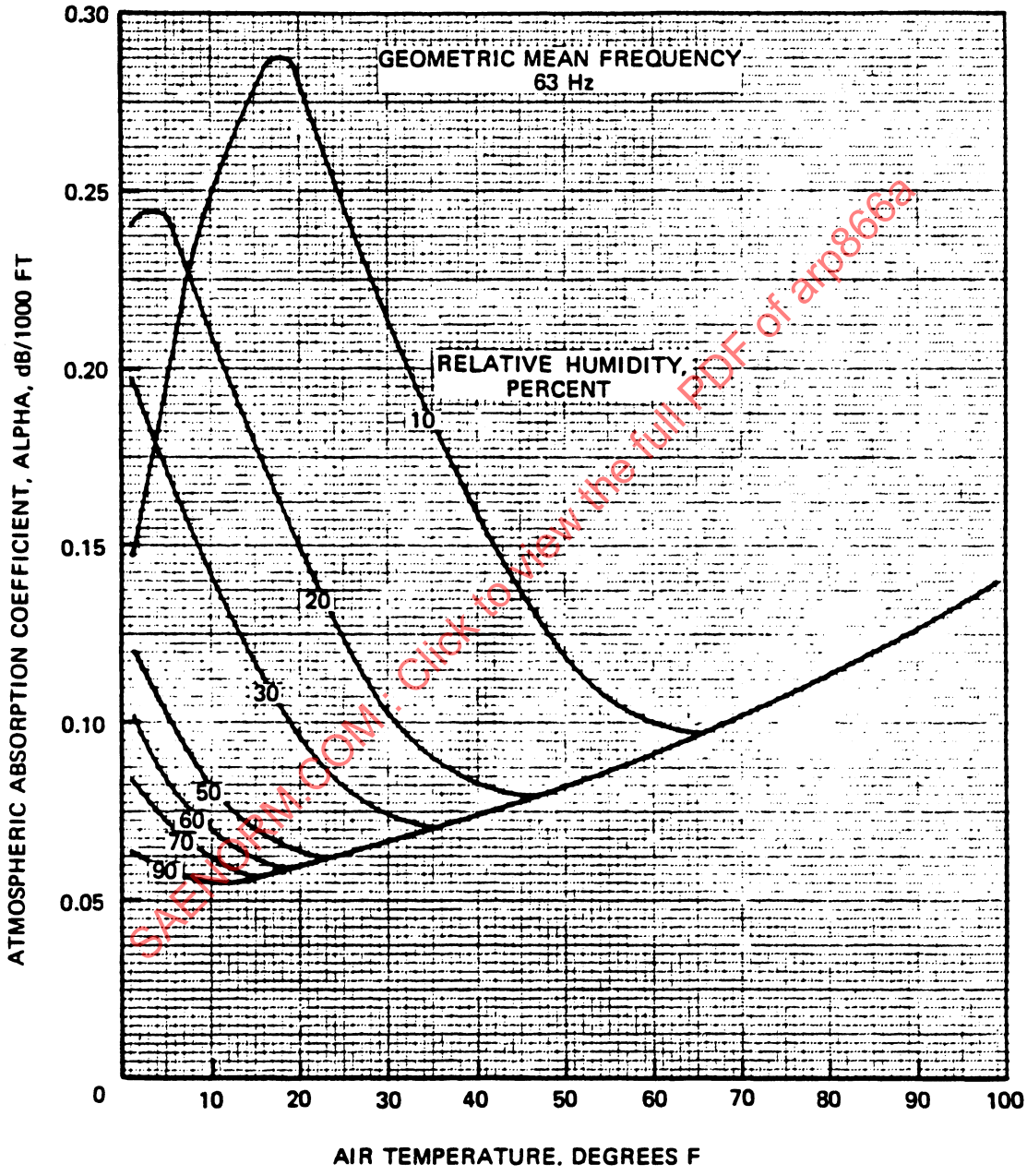
NOTE: Frequency used to calculate these coefficients was 5880 Hz which is 1.05 times 5600 Hz, the low cutoff frequency of the band.

FIGURE 10. CONCLUDED



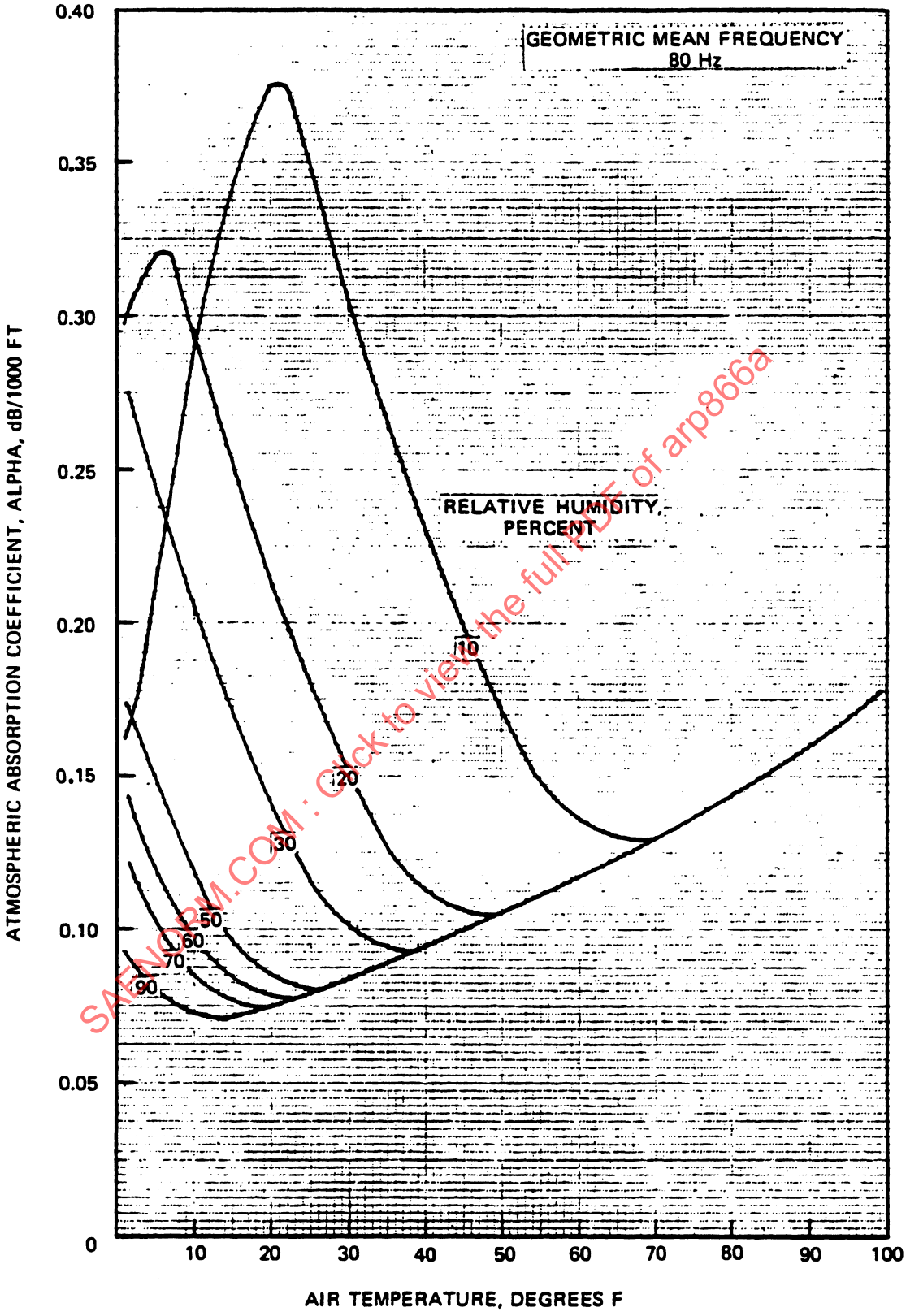
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FIGURE 11. ATMOSPHERIC ABSORPTION COEFFICIENTS FOR 1/3 OCTAVE BANDS OF NOISE FOR DIFFERENT TEMPERATURES AND HUMIDITIES



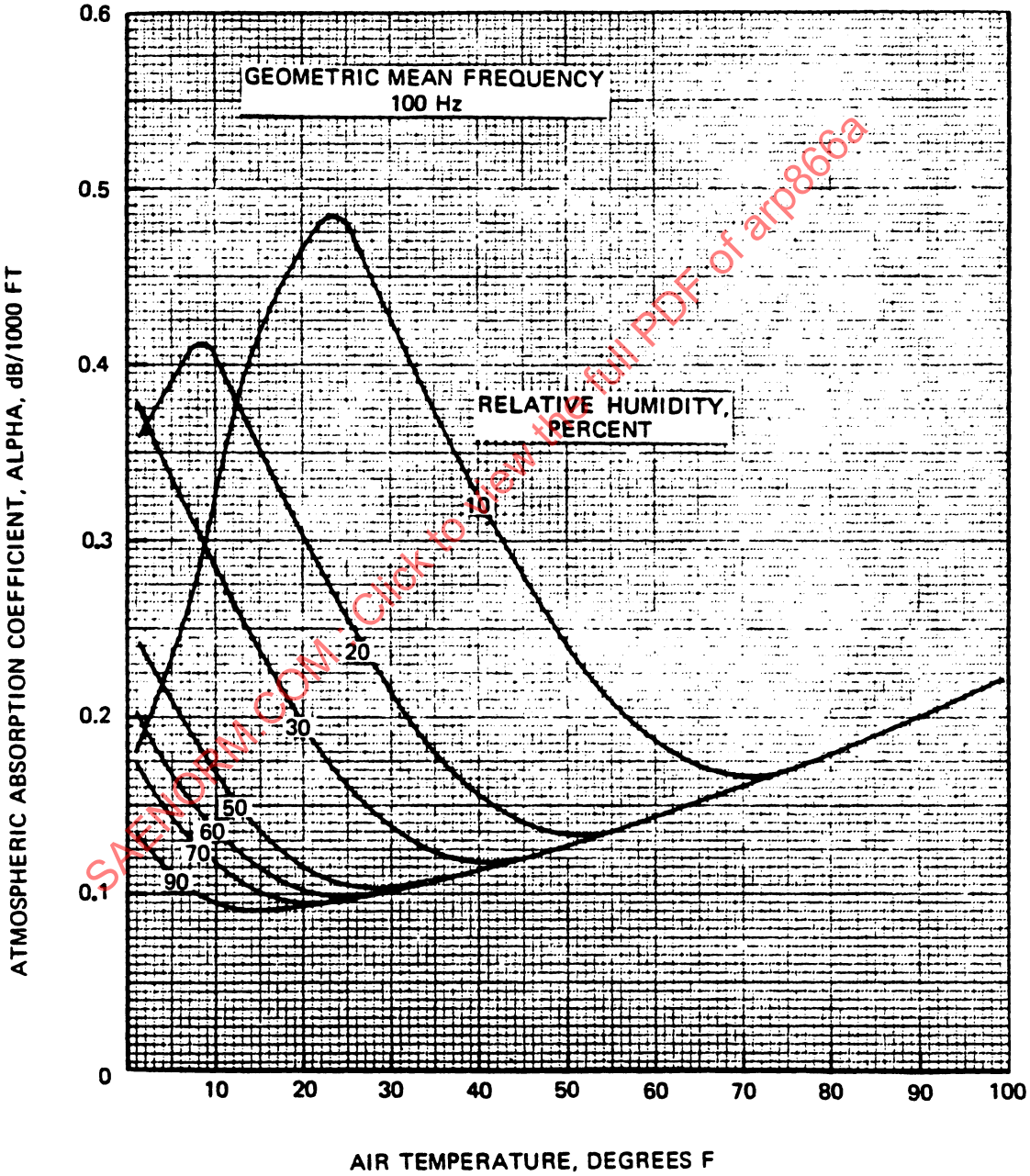
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FIGURE 11. CONTINUED



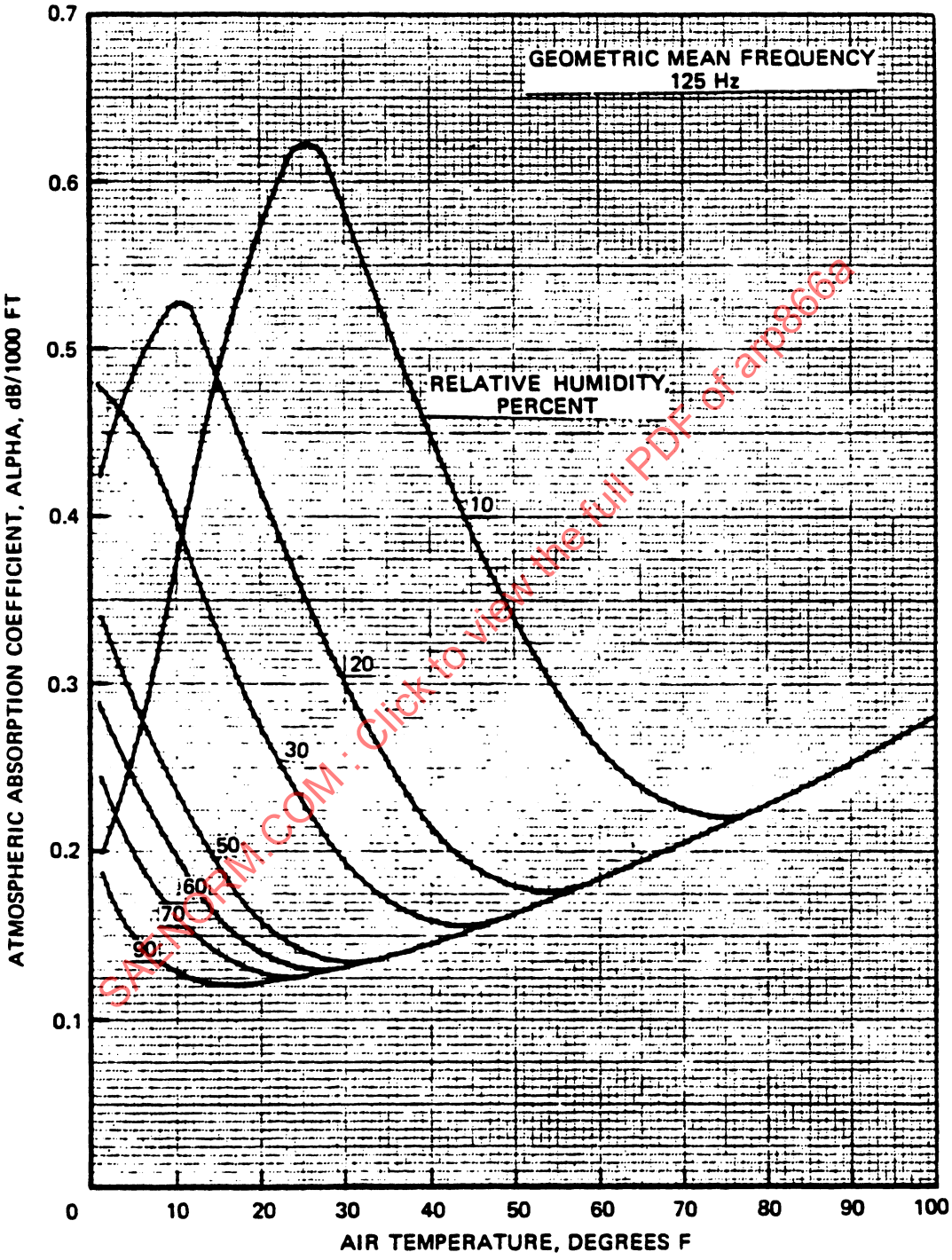
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FIGURE 11. CONTINUED



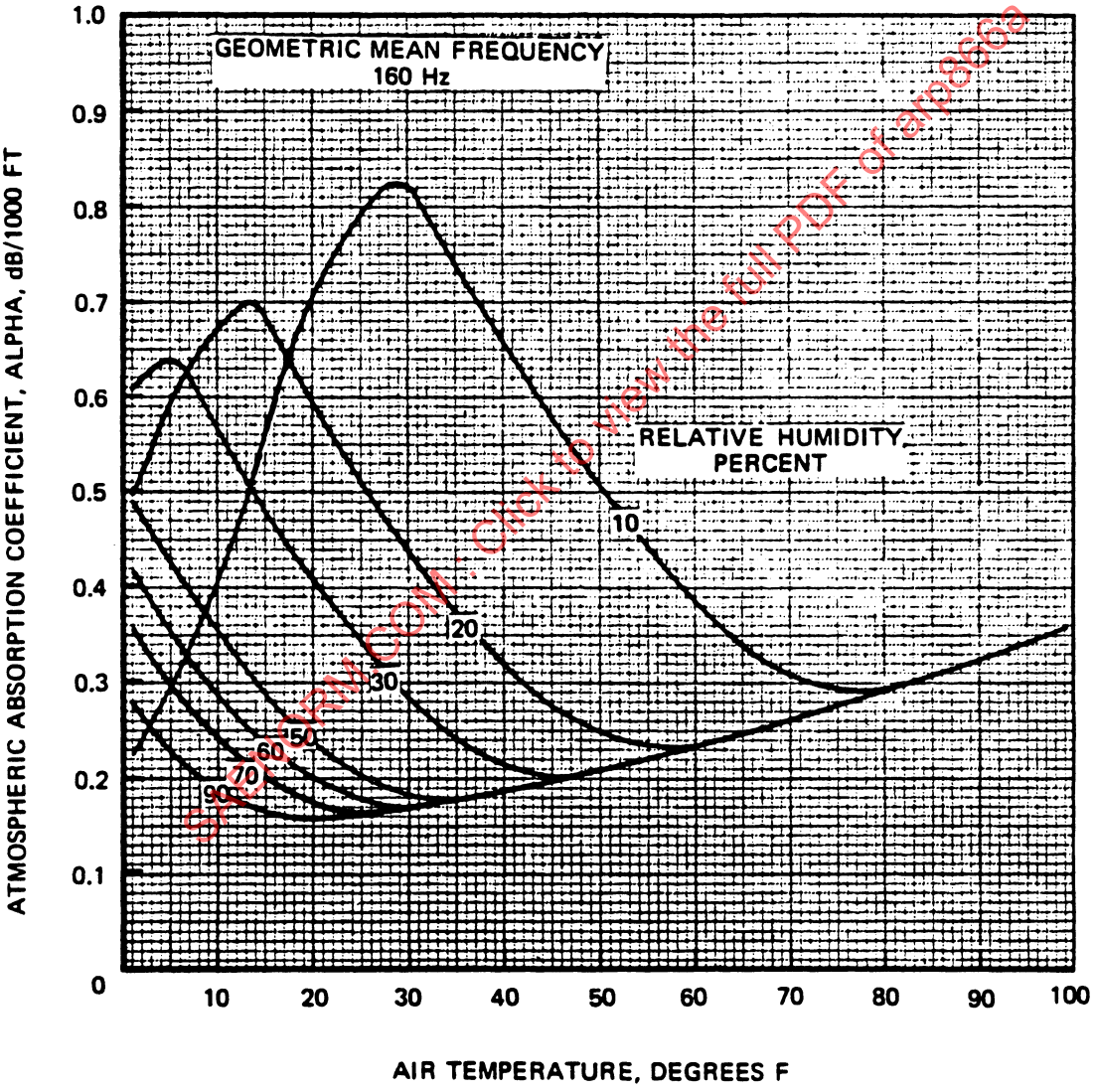
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FIGURE 11. CONTINUED



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FIGURE 11. CONTINUED



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FIGURE 11. CONTINUED

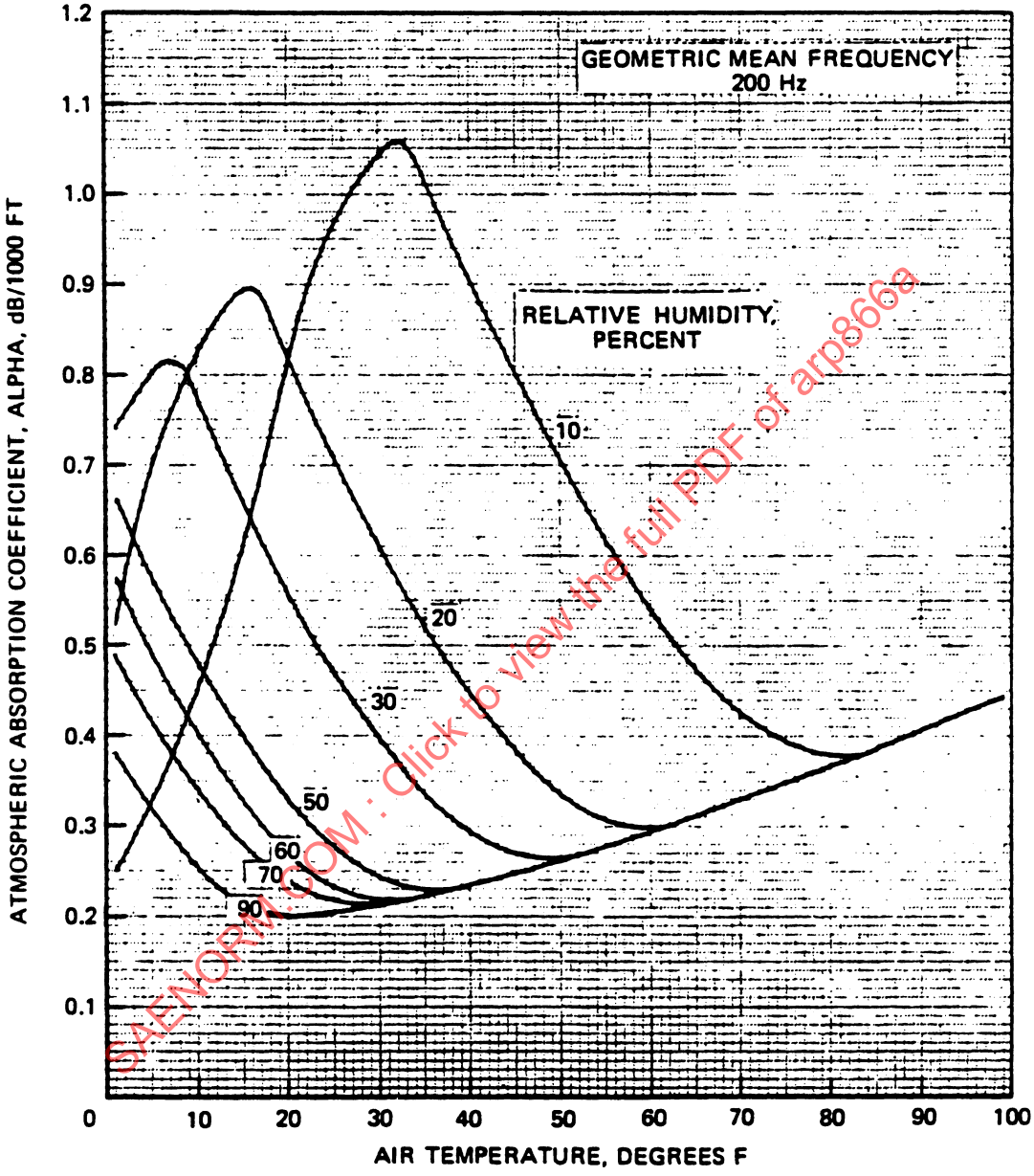
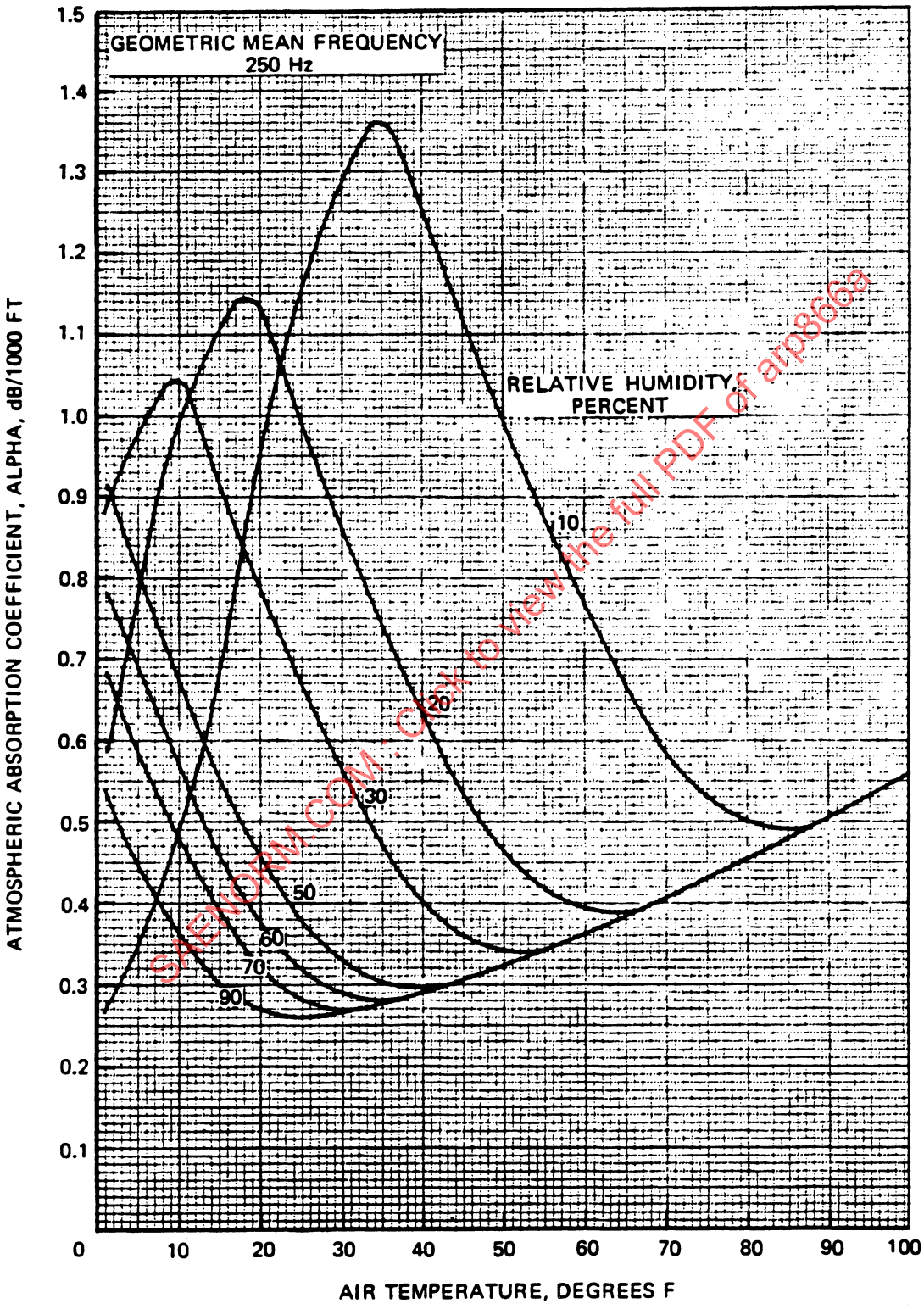


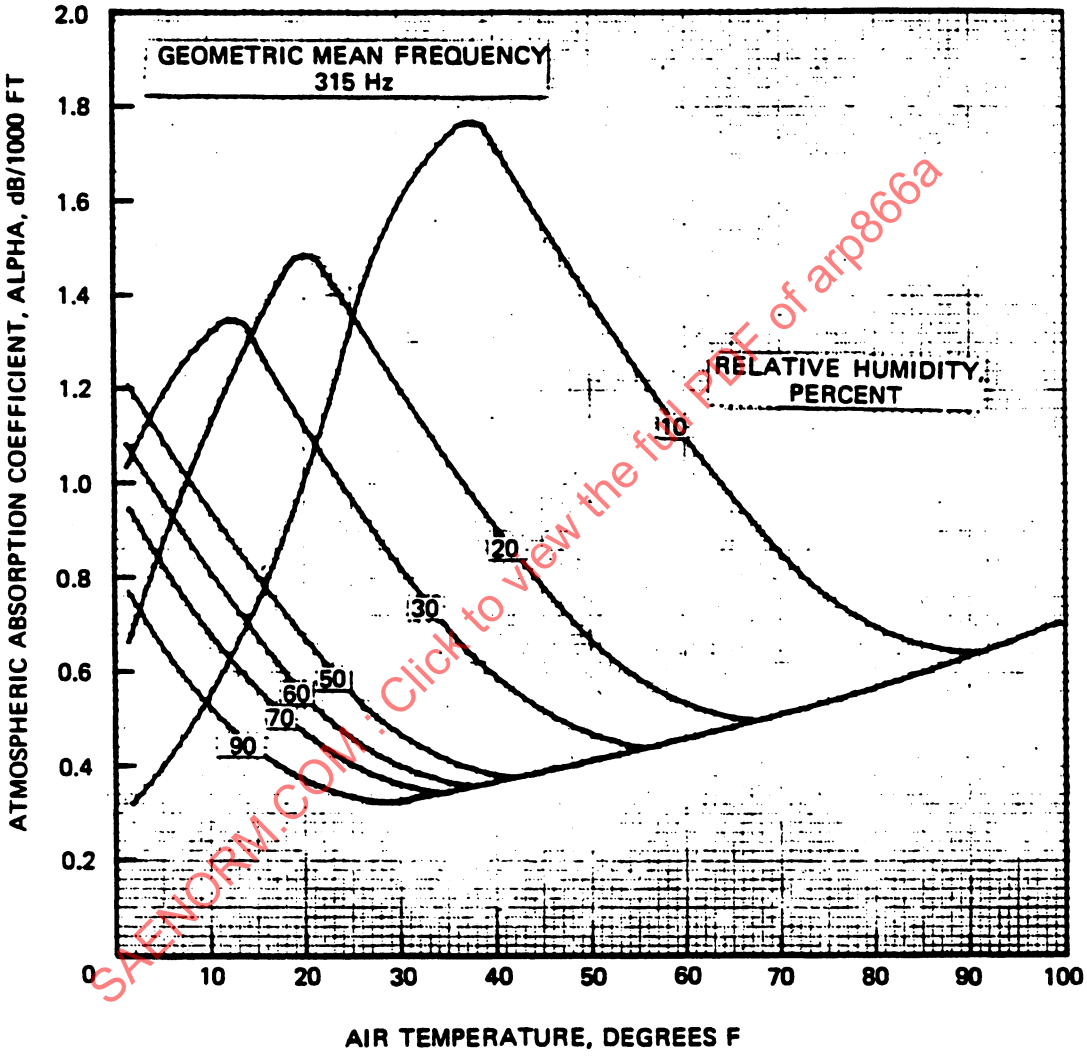
FIGURE 11. CONTINUED

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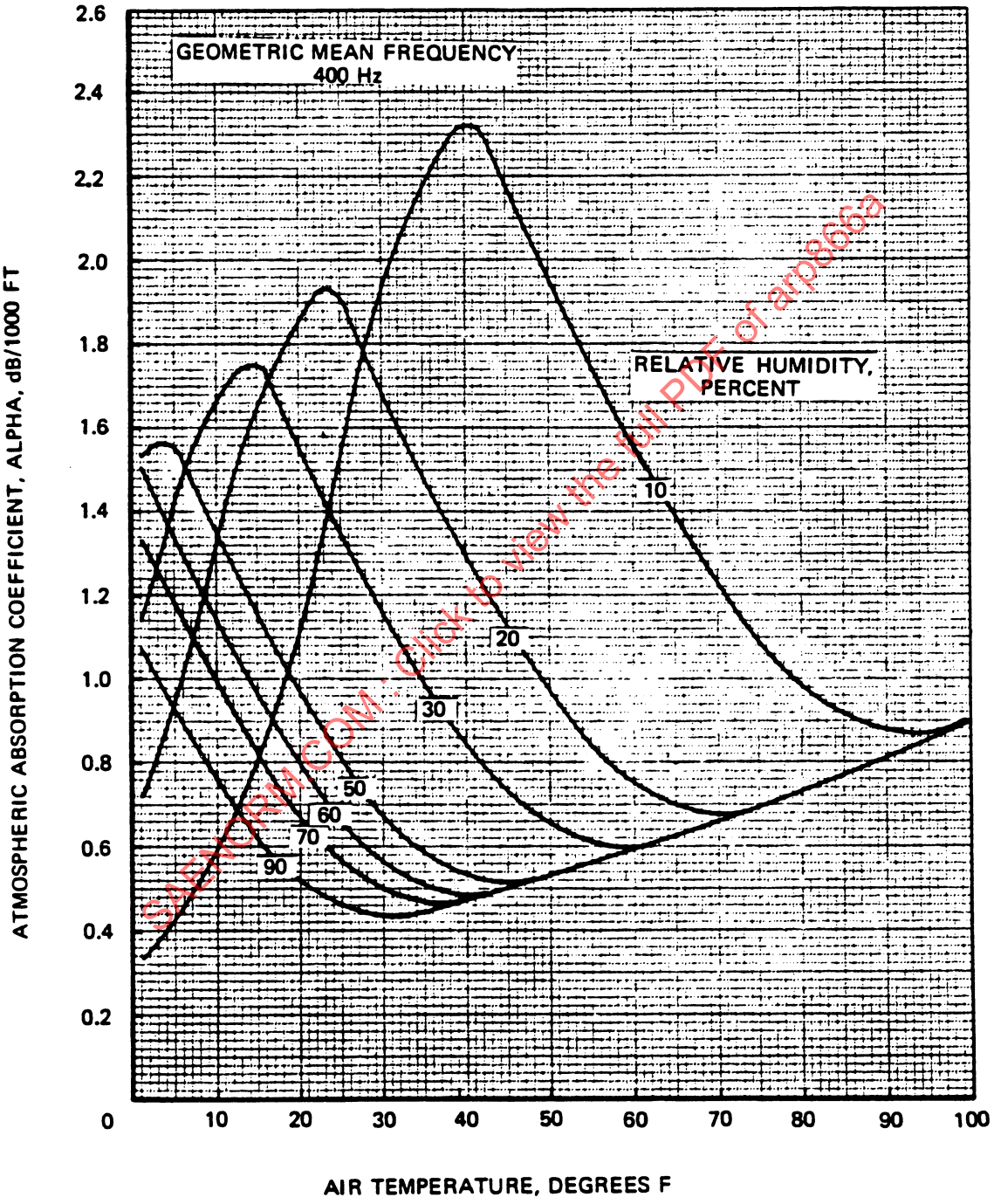
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FIGURE 11. CONTINUED



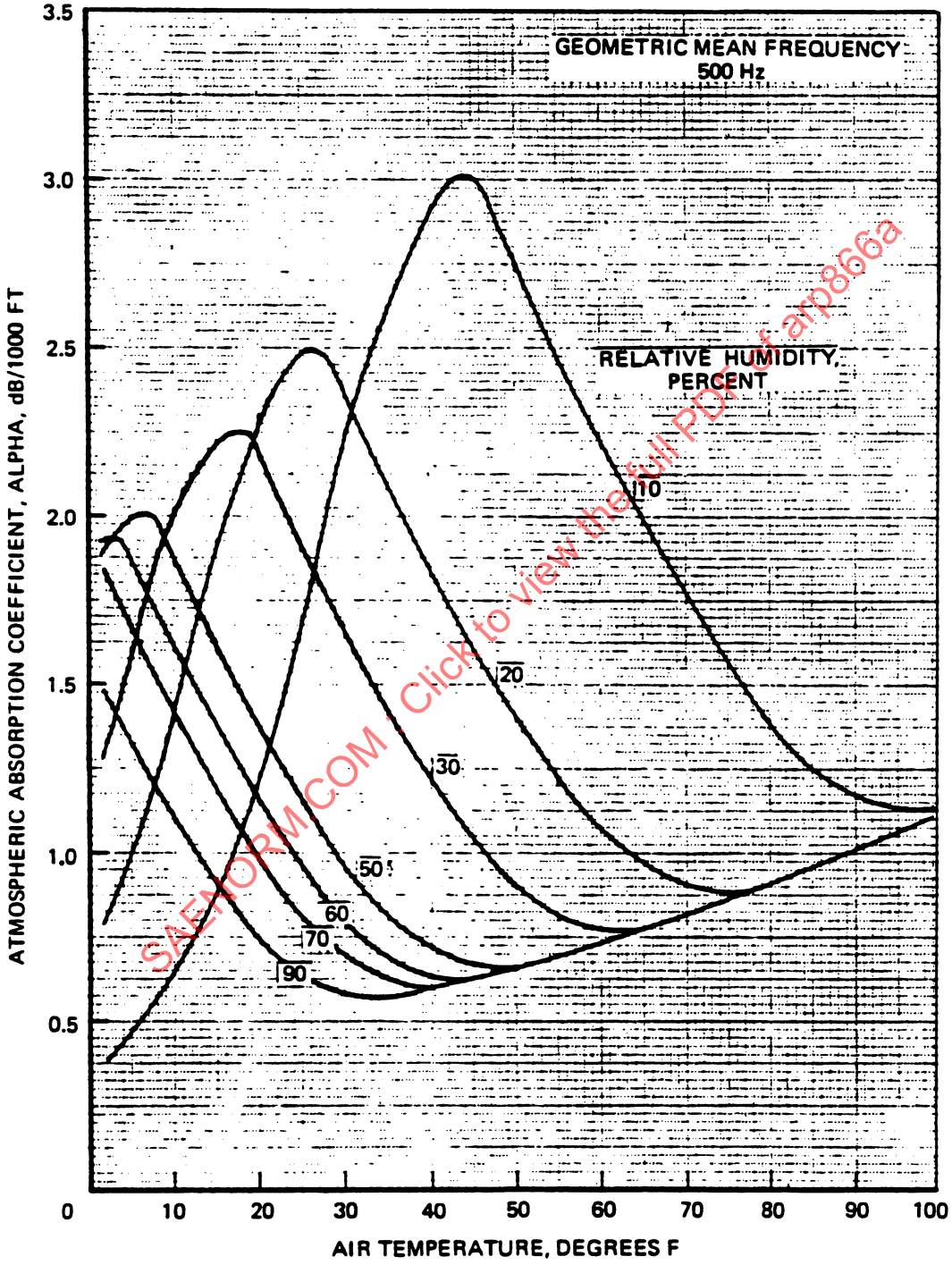
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FIGURE 11. CONTINUED



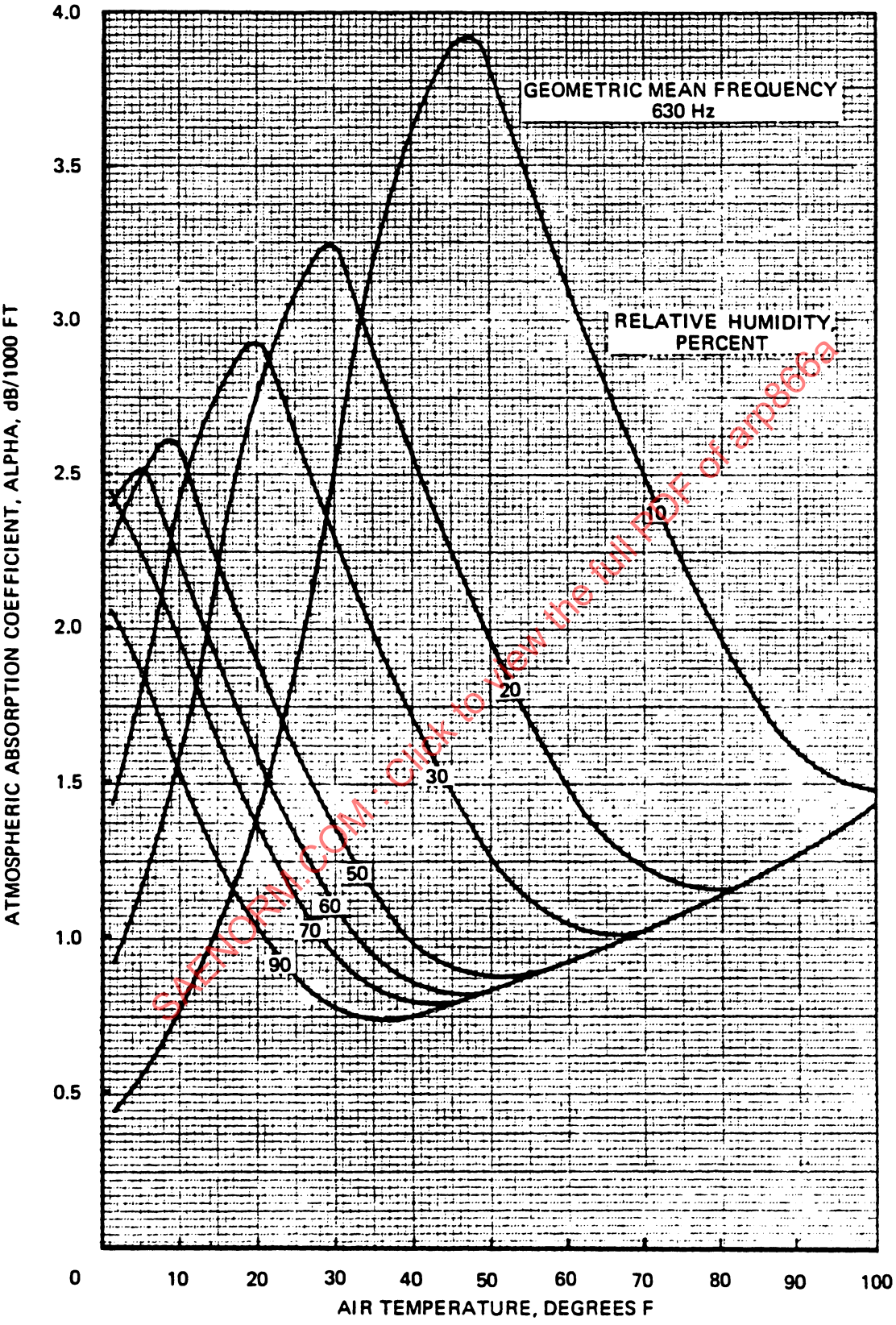
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FIGURE 11. CONTINUED



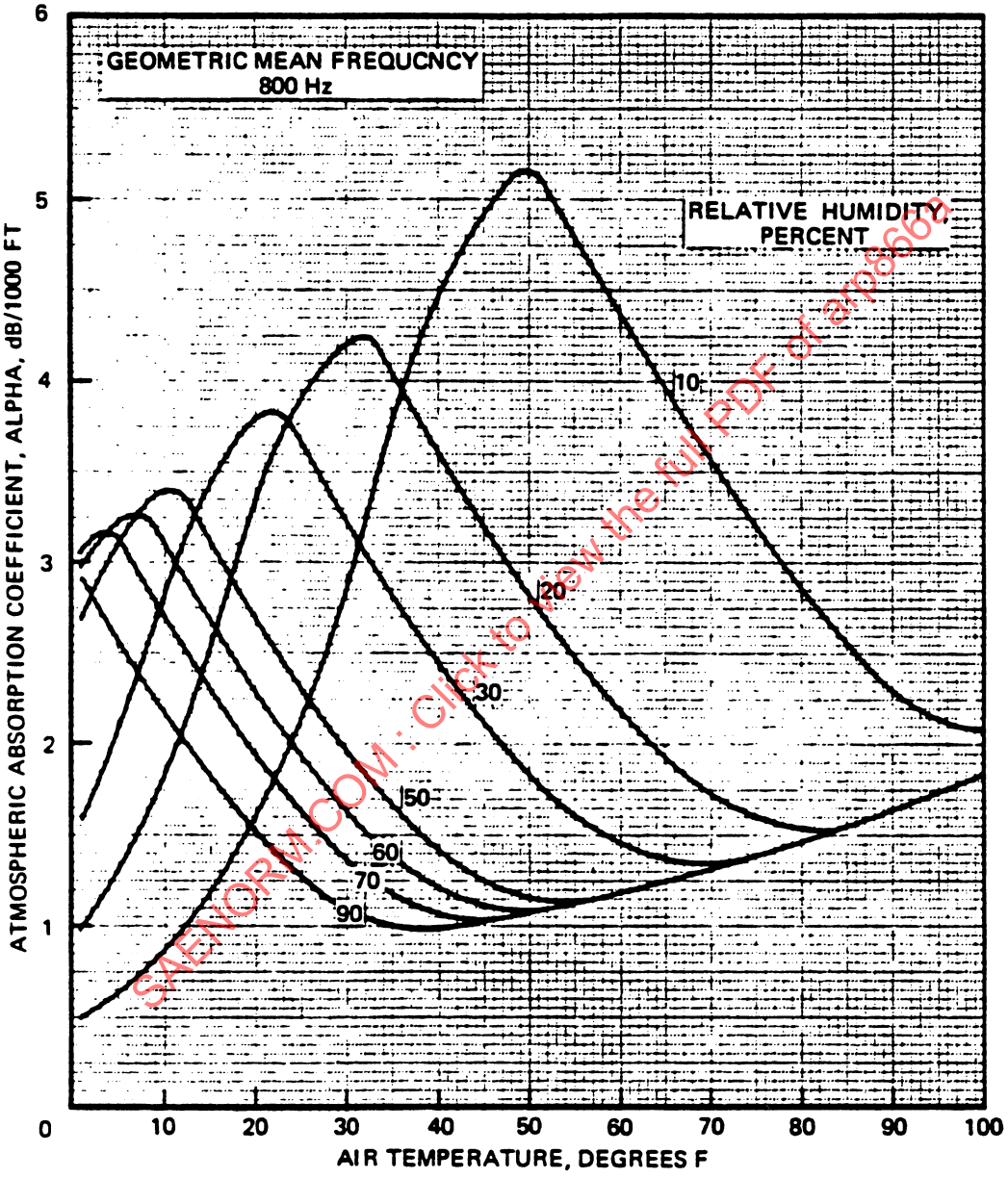
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FIGURE 11. CONTINUED



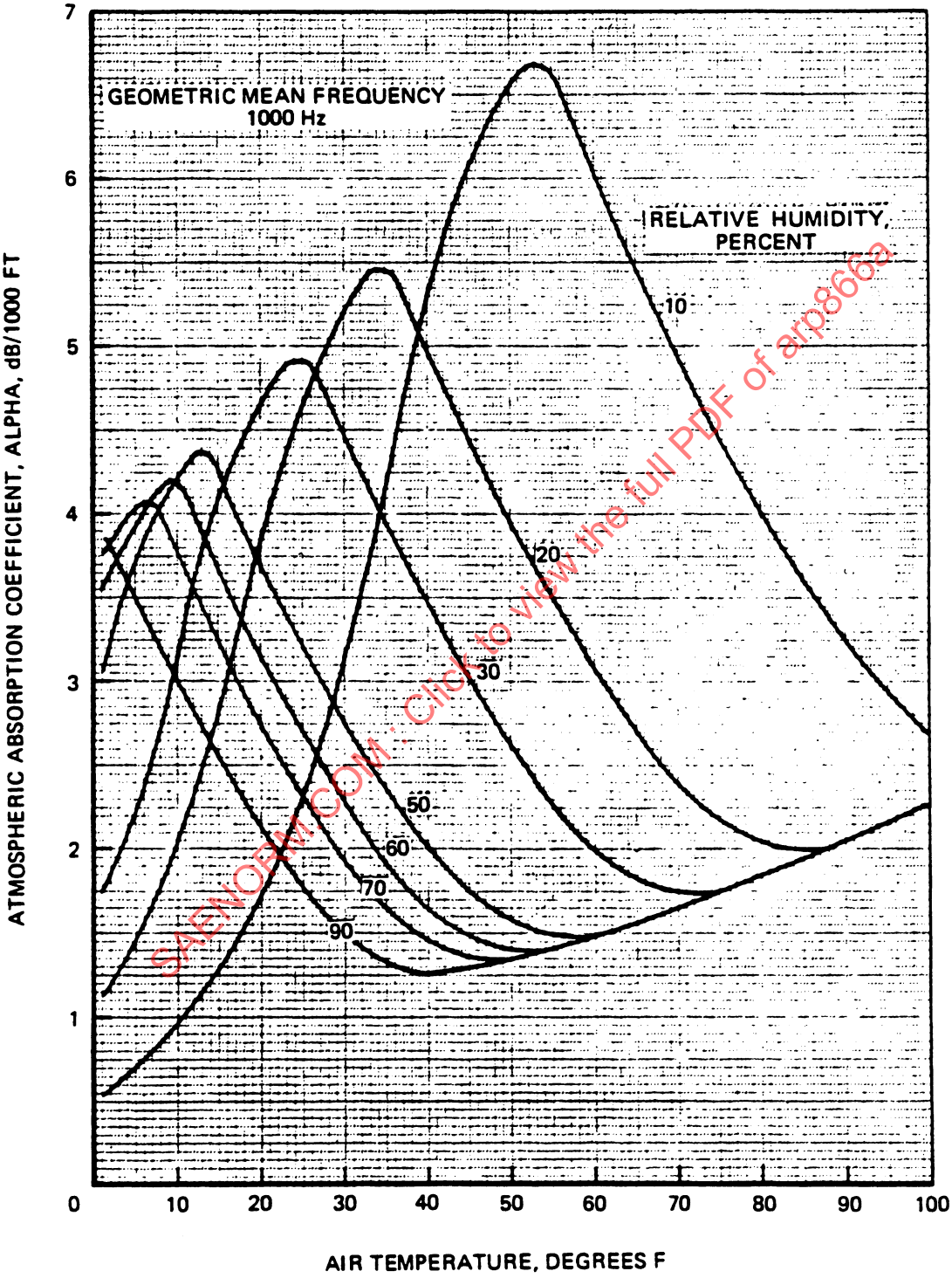
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FIGURE 11. CONTINUED



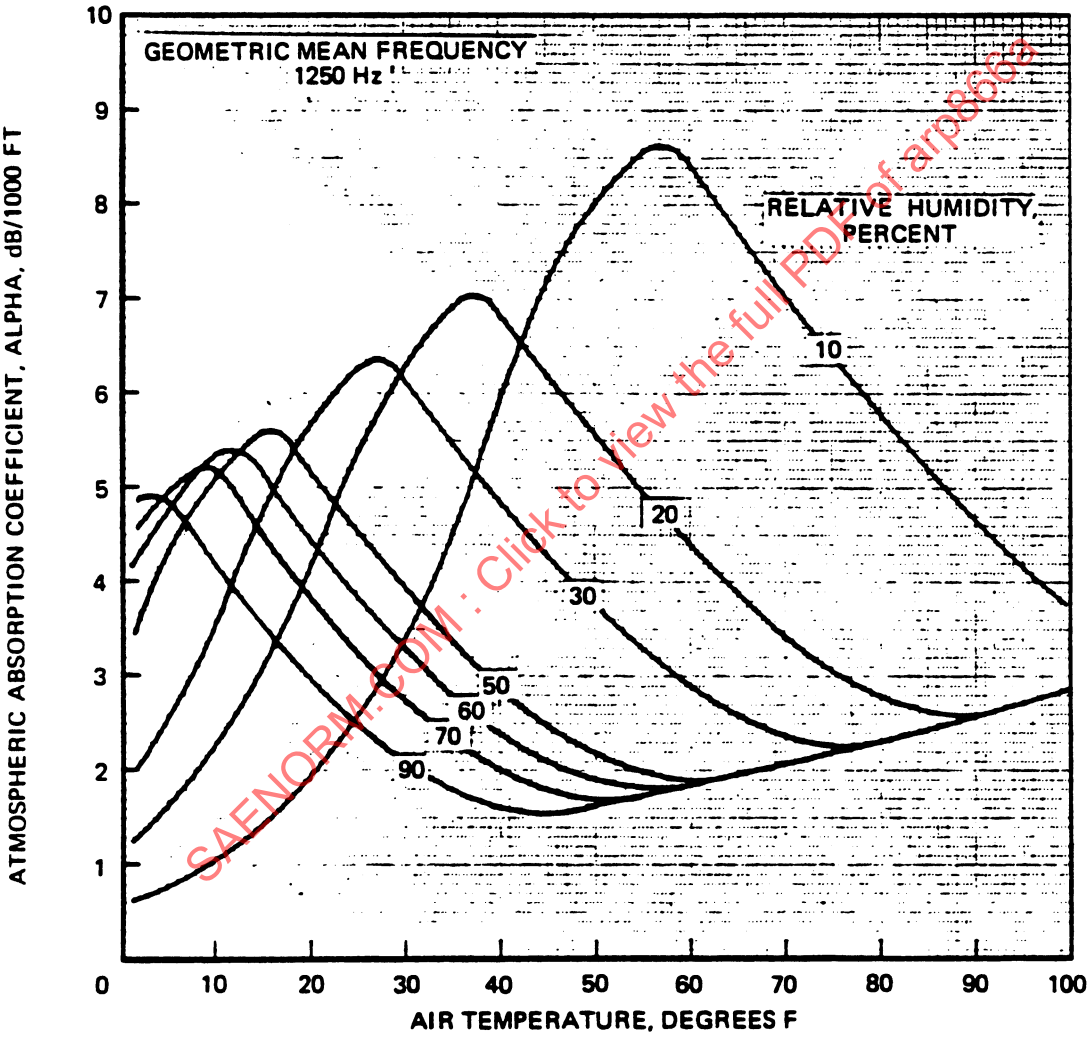
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FIGURE 11. CONTINUED



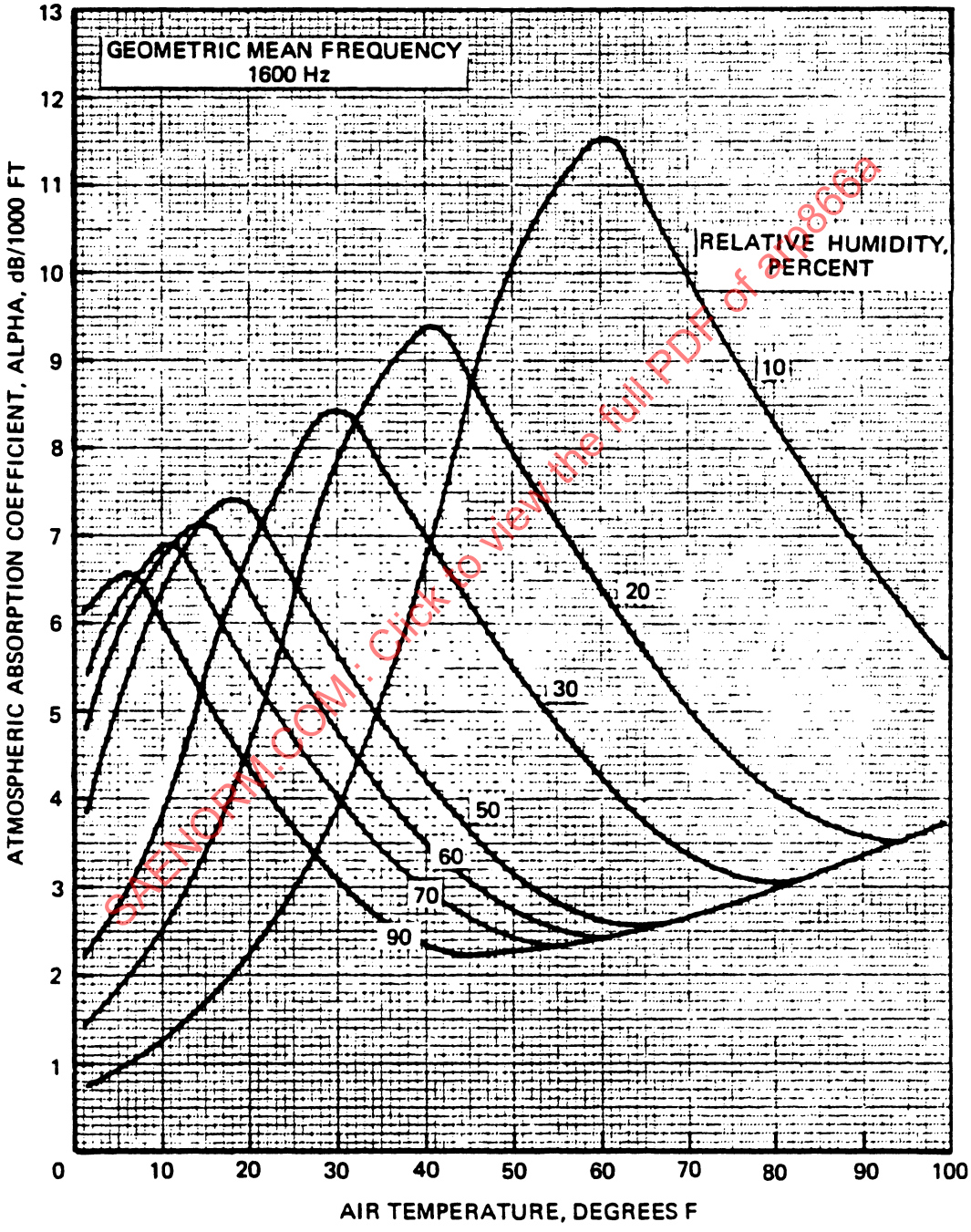
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FIGURE 11. CONTINUED



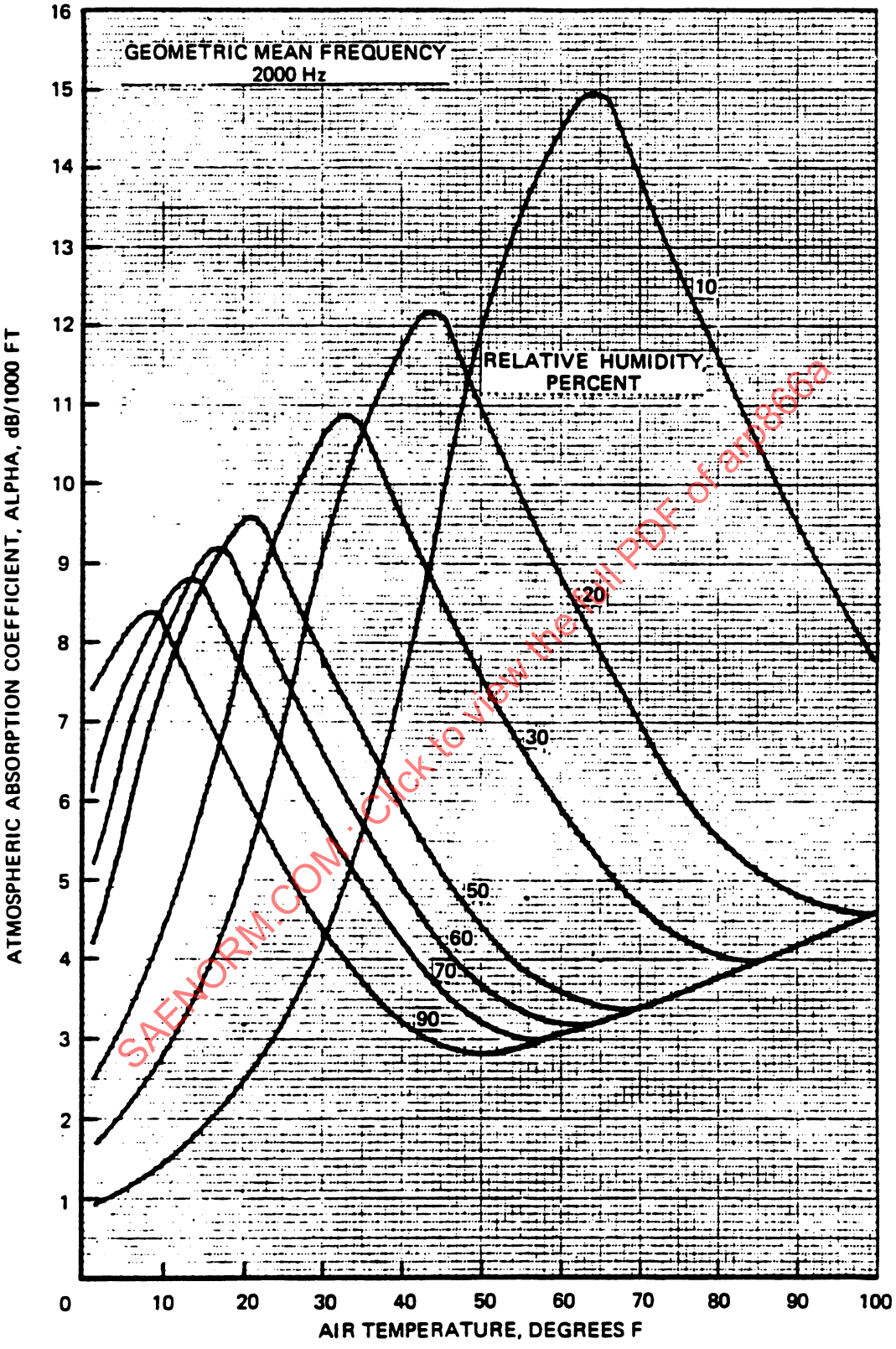
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FIGURE 11. CONTINUED



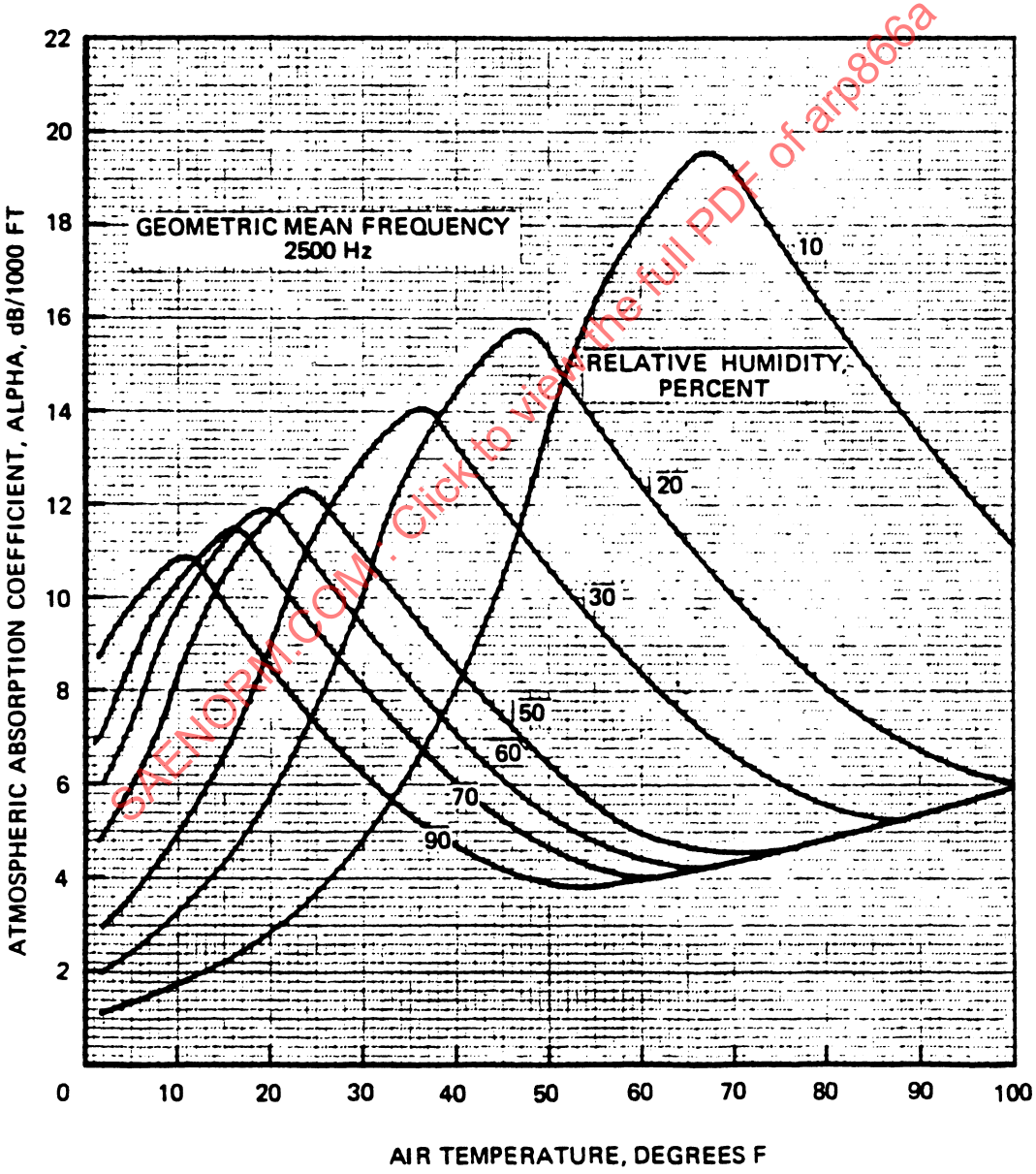
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FIGURE 11. CONTINUED



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FIGURE 11. CONTINUED



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FIGURE 11. CONTINUED

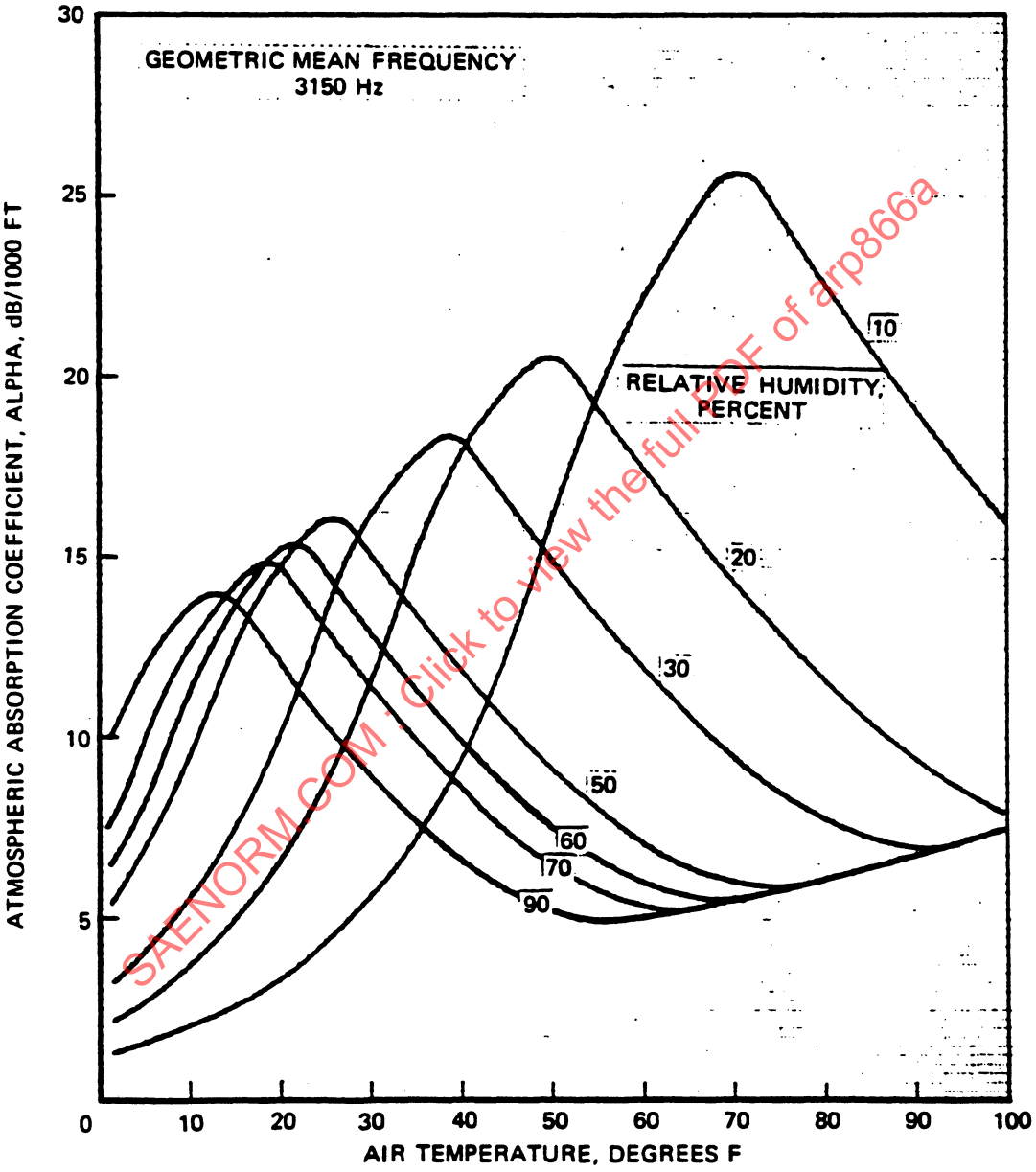
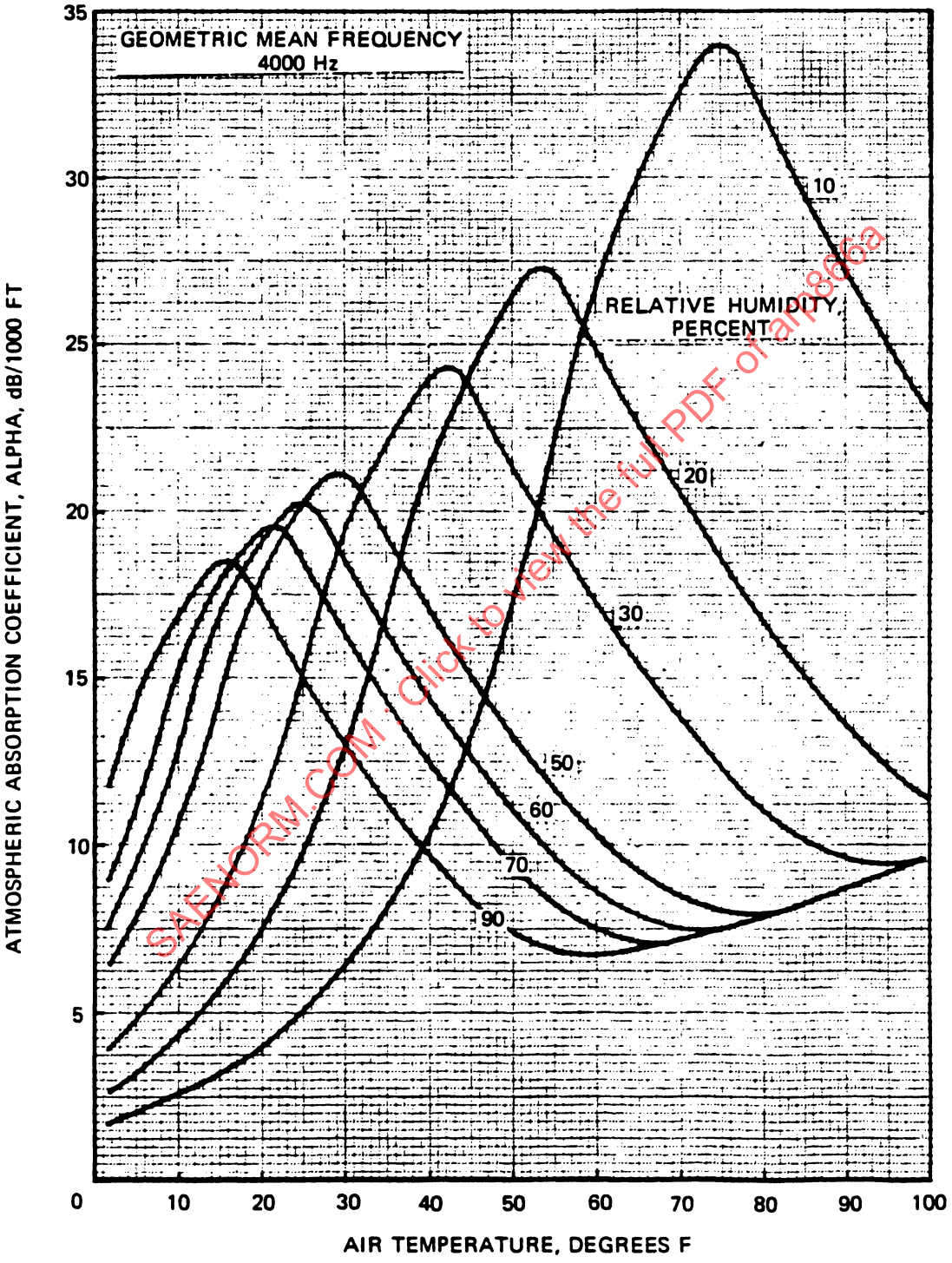


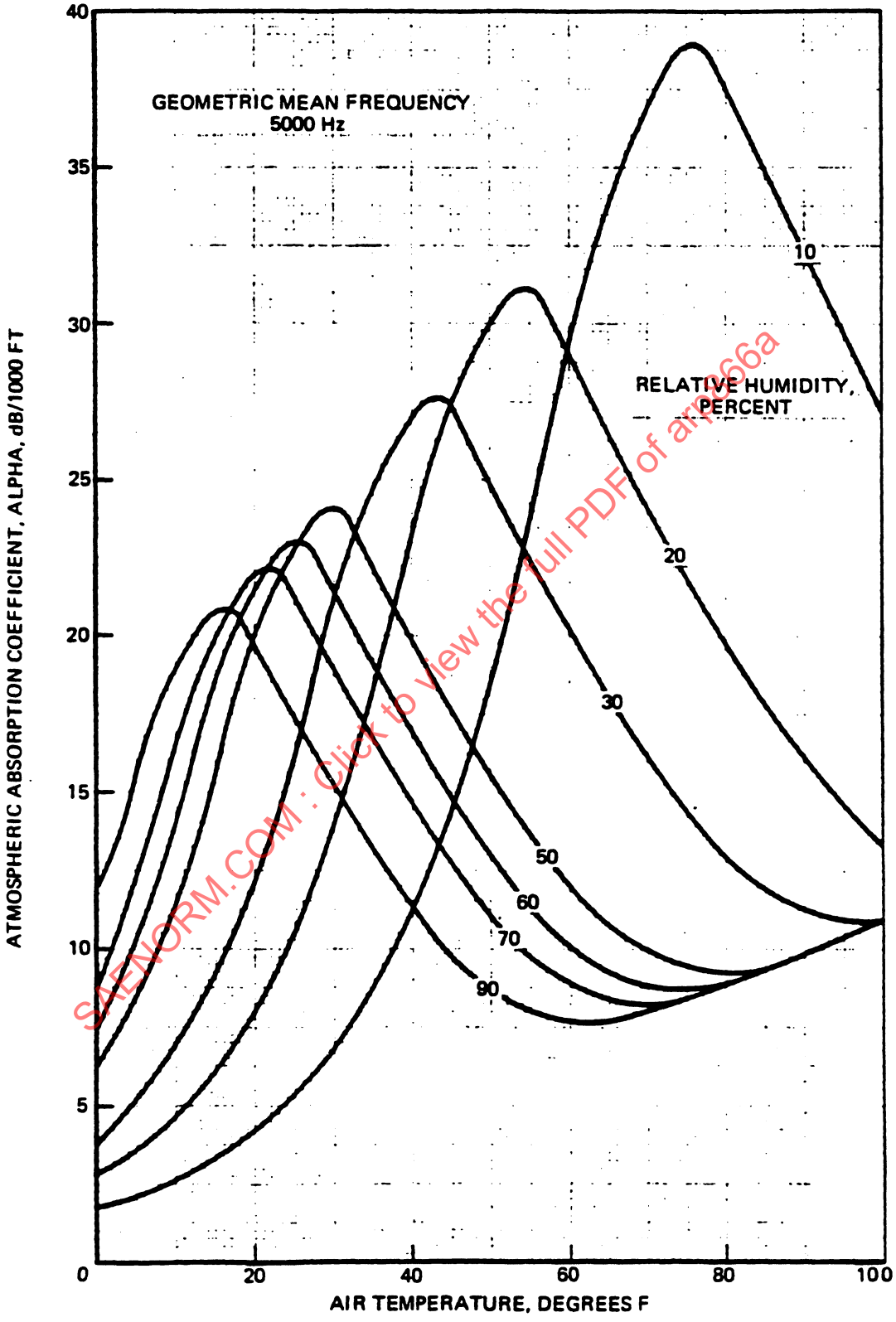
FIGURE 11. CONTINUED

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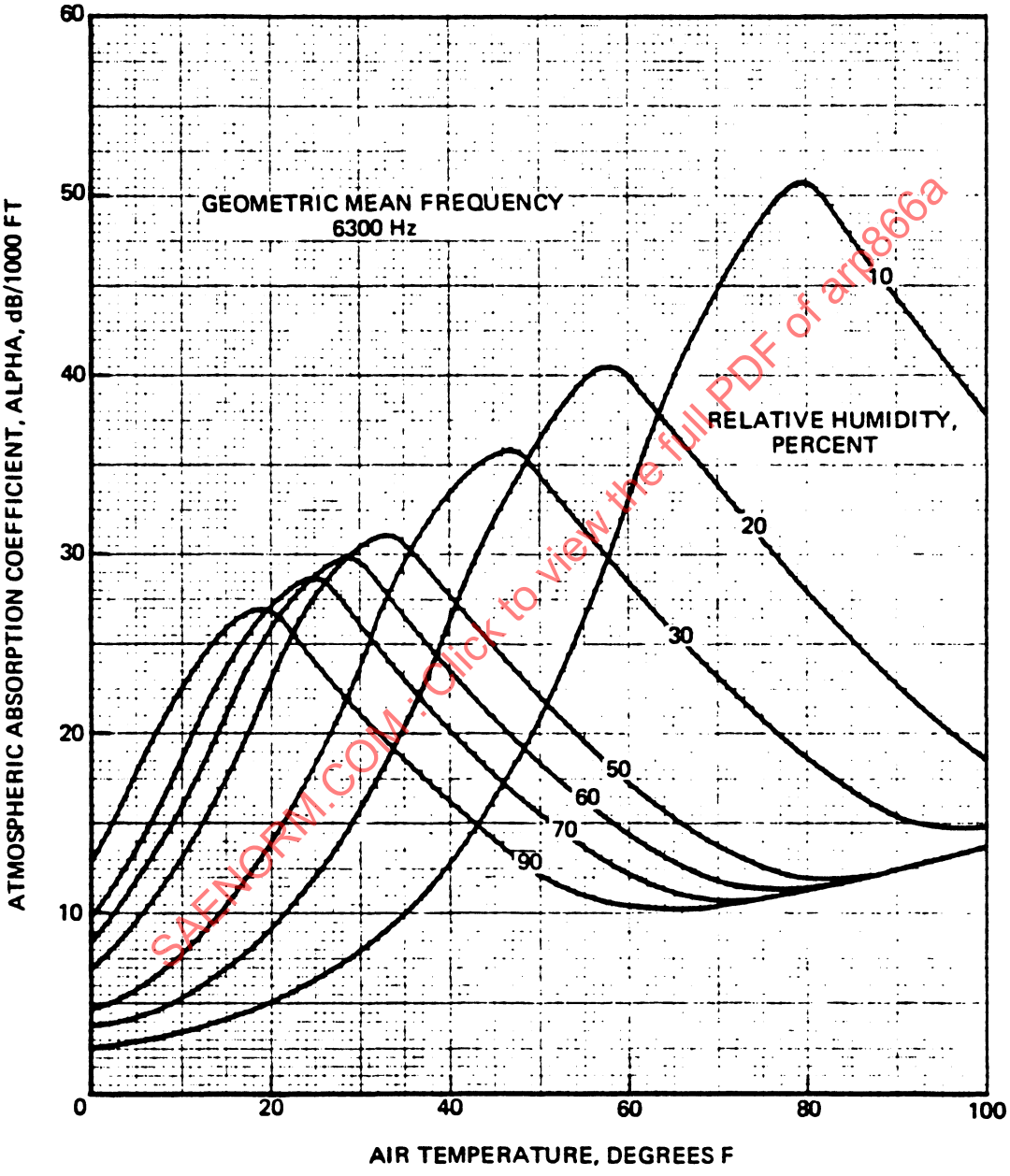
FIGURE 11. CONTINUED



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

FIGURE 11. CONTINUED

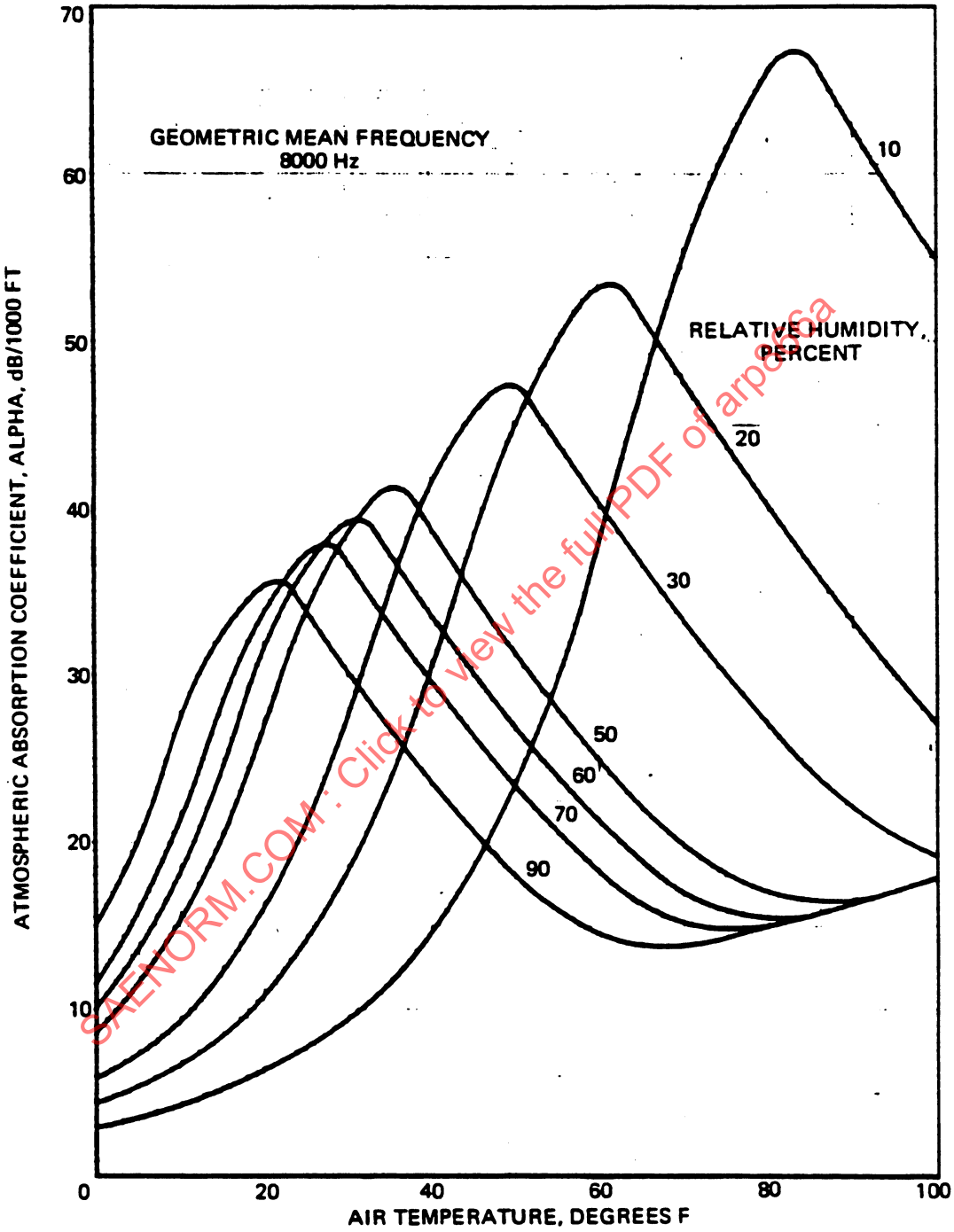
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NOTE: Frequency used to calculate these coefficients was 5600 Hz.

FIGURE 11. CONTINUED

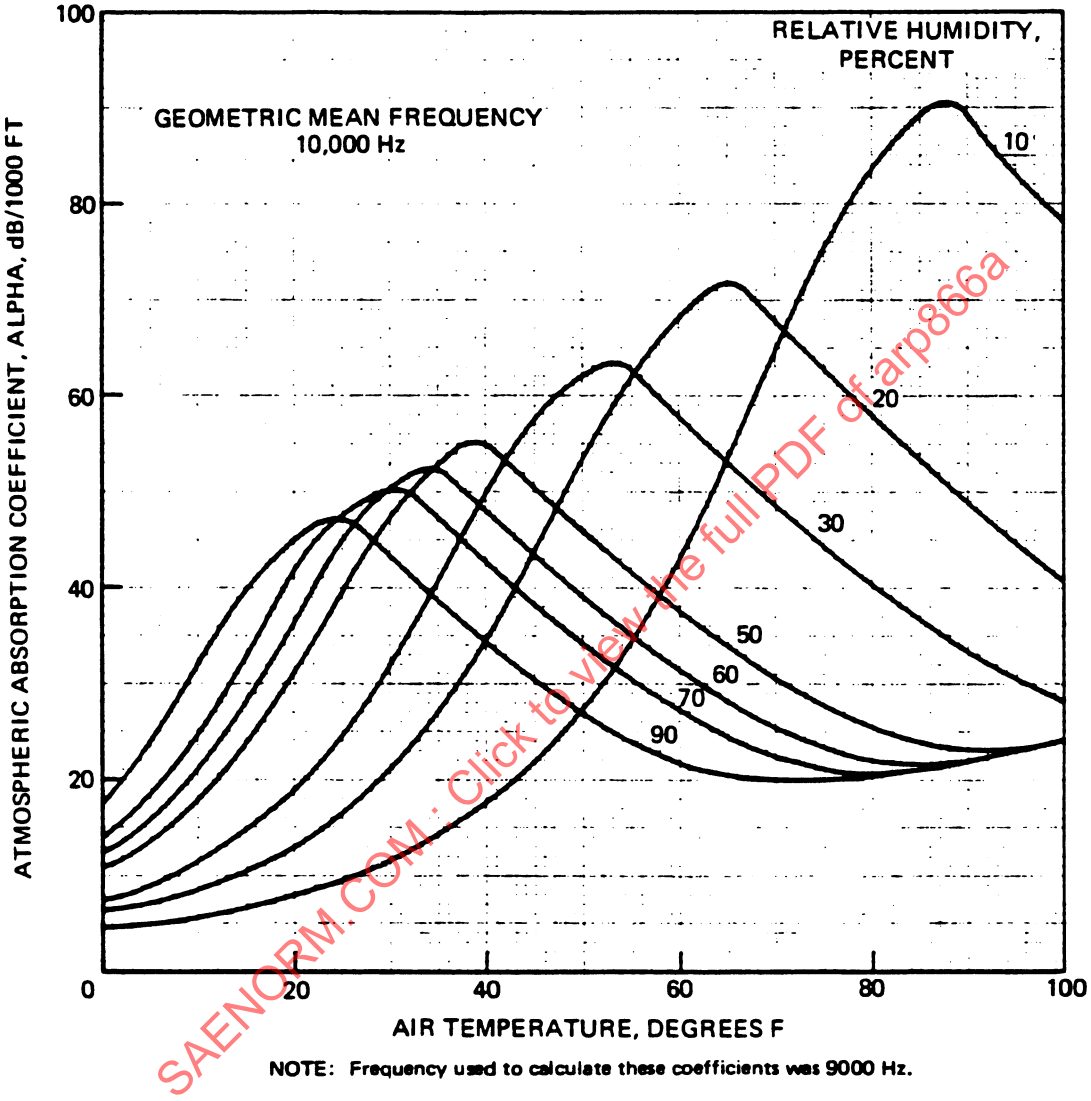
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NOTE: Frequency used to calculate these coefficients was 7100 Hz.

FIGURE 11. CONTINUED

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NOTE: Frequency used to calculate these coefficients was 9000 Hz.

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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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	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
2	0.0	0.0	0.0	0.0	0.1	0.2	0.7	1.5
3	0.0	0.0	0.0	0.0	0.1	0.2	0.7	1.5
4	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5
5	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5
6	0.0	0.0	0.0	0.1	0.1	0.2	0.7	1.5
7	0.0	0.0	0.0	0.1	0.1	0.2	0.8	1.5
8	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.5
9	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.5
10	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.6
11	0.0	0.0	0.0	0.1	0.1	0.3	0.8	1.6
12	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6
13	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6
14	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6
15	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6
16	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7
17	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7
18	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7
19	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
20	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
21	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.8
22	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8
23	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8
24	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8
25	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.9
26	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.9
27	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
28	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
29	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
30	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
31	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0
32	0.1	0.1	0.1	0.2	0.3	0.6	1.2	2.1
33	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
34	0.1	0.1	0.2	0.2	0.4	0.6	1.3	2.2
35	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
36	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.3
37	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
38	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
39	0.1	0.2	0.2	0.3	0.5	0.7	1.5	2.4
40	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
41	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5
42	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.6
43	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.6
44	0.1	0.2	0.3	0.4	0.6	0.9	1.7	2.7
45	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
46	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
47	0.2	0.2	0.3	0.5	0.7	1.0	1.9	2.9
48	0.2	0.2	0.3	0.5	0.7	1.1	1.9	3.0
49	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
50	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.1
51	0.2	0.3	0.4	0.5	0.8	1.2	2.1	3.2
52	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.3
53	0.2	0.3	0.4	0.6	0.9	1.3	2.3	3.4
54	0.2	0.3	0.5	0.6	0.9	1.4	2.3	3.5
55	0.3	0.4	0.5	0.7	0.9	1.4	2.4	3.6
56	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.7
57	0.3	0.4	0.5	0.7	1.0	1.5	2.6	3.8
58	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.9
59	0.3	0.4	0.6	0.8	1.1	1.7	2.8	4.0
60	0.3	0.5	0.6	0.8	1.2	1.7	2.9	4.1
61	0.4	0.5	0.6	0.9	1.2	1.8	3.0	4.3
62	0.4	0.5	0.7	0.9	1.3	1.9	3.1	4.4
63	0.4	0.5	0.7	1.0	1.4	2.0	3.2	4.5
64	0.4	0.5	0.7	1.0	1.4	2.1	3.3	4.7
65	0.4	0.6	0.8	1.1	1.5	2.2	3.4	4.8
66	0.4	0.6	0.8	1.1	1.5	2.2	3.6	5.0
67	0.4	0.6	0.9	1.2	1.6	2.3	3.7	5.1
68	0.5	0.7	0.9	1.2	1.7	2.4	3.8	5.3
69	0.5	0.7	0.9	1.3	1.8	2.5	4.0	5.5
70	0.5	0.7	1.0	1.3	1.8	2.7	4.1	5.6
71	0.5	0.8	1.0	1.4	1.9	2.8	4.3	5.8
72	0.5	0.8	1.1	1.5	2.0	2.9	4.5	6.0
73	0.5	0.8	1.1	1.5	2.1	3.0	4.6	6.2
74	0.5	0.9	1.2	1.6	2.2	3.1	4.8	6.5
75	0.5	0.9	1.2	1.7	2.3	3.3	5.0	6.7
76	0.5	0.9	1.3	1.8	2.4	3.4	5.2	6.9
77	0.5	1.0	1.4	1.8	2.5	3.6	5.4	7.1
78	0.6	1.0	1.4	1.9	2.6	3.7	5.6	7.4
79	0.6	1.0	1.5	2.0	2.8	3.9	5.8	7.7
80	0.6	1.1	1.6	2.1	2.9	4.1	6.0	7.9
81	0.6	1.1	1.6	2.2	3.0	4.2	6.3	8.2
82	0.6	1.1	1.7	2.3	3.1	4.4	6.5	8.5
83	0.6	1.1	1.8	2.4	3.3	4.6	6.8	8.8
84	0.6	1.1	1.9	2.5	3.4	4.8	7.1	9.1
85	0.6	1.2	1.9	2.7	3.6	5.0	7.3	9.5
86	0.5	1.2	2.0	2.8	3.8	5.2	7.6	9.8
87	0.5	1.2	2.1	2.9	3.9	5.4	7.9	10.2
88	0.5	1.2	2.2	3.0	4.1	5.7	8.3	10.6
89	0.5	1.2	2.2	3.2	4.3	5.9	8.6	11.0
90	0.5	1.3	2.3	3.3	4.5	6.2	8.9	11.4
91	0.5	1.3	2.4	3.5	4.7	6.5	9.3	11.8
92	0.5	1.3	2.4	3.7	4.9	6.7	9.7	12.3
93	0.5	1.3	2.5	3.8	5.1	7.0	10.1	12.7
94	0.5	1.3	2.5	4.0	5.4	7.3	10.5	13.2
95	0.5	1.3	2.6	4.1	5.6	7.7	10.9	13.7
96	0.5	1.3	2.6	4.3	5.9	8.0	11.4	14.3
97	0.5	1.2	2.7	4.5	6.1	8.3	11.8	14.8
98	0.5	1.2	2.7	4.6	6.4	8.7	12.3	15.4
99	0.4	1.2	2.7	4.8	6.7	9.1	12.8	16.0
100	0.4	1.2	2.8	4.9	7.0	9.5	13.4	16.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6
3	0.0	0.0	0.1	0.1	0.1	0.3	0.8	1.6
4	0.0	0.0	0.1	0.1	0.2	0.3	0.8	1.6
5	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.6
6	0.0	0.0	0.1	0.1	0.2	0.3	0.9	1.7
7	0.0	0.1	0.1	0.1	0.2	0.3	0.9	1.7
8	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
9	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
10	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8
11	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8
12	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8
13	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.8
14	0.1	0.1	0.1	0.2	0.3	0.5	1.0	1.9
15	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
16	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
17	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
18	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0
19	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
20	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
21	0.1	0.1	0.2	0.2	0.4	0.6	1.3	2.1
22	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
23	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
24	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
25	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3
26	0.1	0.2	0.2	0.3	0.5	0.7	1.5	2.4
27	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5
28	0.1	0.2	0.2	0.4	0.5	0.8	1.6	2.5
29	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.6
30	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6
31	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
32	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
33	0.2	0.2	0.3	0.5	0.7	1.0	1.9	2.9
34	0.2	0.3	0.3	0.5	0.7	1.1	1.9	2.9
35	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
36	0.2	0.3	0.4	0.5	0.8	1.2	2.1	3.1
37	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2
38	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.3
39	0.3	0.3	0.5	0.6	0.9	1.3	2.3	3.4
40	0.3	0.4	0.5	0.7	0.9	1.4	2.4	3.5
41	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
42	0.3	0.4	0.5	0.7	1.0	1.5	2.6	3.7
43	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.9
44	0.3	0.4	0.6	0.8	1.1	1.7	2.8	4.0
45	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1
46	0.3	0.5	0.7	0.9	1.3	1.8	3.0	4.2
47	0.4	0.5	0.7	0.9	1.3	1.9	3.1	4.4
48	0.4	0.5	0.7	1.0	1.4	2.0	3.2	4.5
49	0.4	0.6	0.8	1.0	1.5	2.1	3.4	4.7
50	0.4	0.6	0.8	1.1	1.5	2.2	3.5	4.9
51	0.4	0.6	0.9	1.2	1.6	2.3	3.6	5.0
52	0.4	0.7	0.9	1.2	1.7	2.4	3.8	5.2
53	0.4	0.7	0.9	1.3	1.8	2.5	3.9	5.4
54	0.4	0.7	1.0	1.3	1.9	2.7	4.1	5.6
55	0.4	0.7	1.1	1.4	1.9	2.8	4.3	5.8
56	0.4	0.8	1.1	1.5	2.0	2.9	4.4	6.0
57	0.4	0.8	1.2	1.6	2.1	3.0	4.6	6.2
58	0.4	0.8	1.2	1.6	2.2	3.2	4.8	6.4
59	0.4	0.8	1.3	1.7	2.4	3.3	5.0	6.7
60	0.5	0.9	1.3	1.8	2.5	3.5	5.2	6.9
61	0.4	0.9	1.4	1.9	2.6	3.6	5.5	7.2
62	0.4	0.9	1.5	2.0	2.7	3.8	5.7	7.5
63	0.4	0.9	1.5	2.1	2.8	4.0	5.9	7.8
64	0.4	0.9	1.6	2.2	3.0	4.2	6.2	8.1
65	0.4	0.9	1.7	2.3	3.1	4.4	6.4	8.4
66	0.4	1.0	1.7	2.4	3.3	4.6	6.7	8.7
67	0.4	1.0	1.8	2.6	3.4	4.8	7.0	9.0
68	0.4	1.0	1.8	2.7	3.6	5.0	7.3	9.4
69	0.4	1.0	1.9	2.8	3.8	5.2	7.6	9.7
70	0.4	1.0	1.9	2.9	4.0	5.5	7.9	10.1
71	0.4	1.0	2.0	3.1	4.2	5.7	8.2	10.5
72	0.4	1.0	2.0	3.2	4.4	6.0	8.6	10.9
73	0.4	1.0	2.0	3.3	4.6	6.3	9.0	11.4
74	0.4	1.0	2.1	3.5	4.8	6.5	9.4	11.8
75	0.4	0.9	2.1	3.6	5.0	6.8	9.8	12.3
76	0.3	0.9	2.1	3.7	5.3	7.2	10.2	12.8
77	0.3	0.9	2.2	3.9	5.5	7.5	10.6	13.3
78	0.3	0.9	2.2	4.0	5.8	7.8	11.1	13.9
79	0.3	0.9	2.2	4.1	6.1	8.2	11.5	14.4
80	0.3	0.9	2.2	4.2	6.4	8.6	12.0	15.0
81	0.3	0.9	2.3	4.3	6.6	9.0	12.6	15.6
82	0.3	0.9	2.3	4.4	6.9	9.4	13.1	16.3
83	0.3	0.8	2.3	4.5	7.2	9.8	13.7	16.9
84	0.3	0.8	2.2	4.6	7.5	10.3	14.3	17.6
85	0.3	0.8	2.2	4.7	7.8	10.7	14.9	18.4
86	0.3	0.8	2.2	4.7	8.1	11.2	15.6	19.1
87	0.3	0.8	2.1	4.8	8.4	11.8	16.2	19.9
88	0.3	0.8	2.1	4.9	8.7	12.3	16.9	20.7
89	0.3	0.8	2.1	5.0	8.9	12.9	17.7	21.6
90	0.3	0.7	2.0	5.0	9.2	13.5	18.5	22.5
91	0.3	0.7	2.0	5.1	9.4	14.1	19.3	23.5
92	0.3	0.7	2.0	5.1	9.7	14.7	20.1	24.5
93	0.2	0.7	2.0	5.1	9.9	15.4	21.0	25.5
94	0.2	0.7	1.9	5.1	10.1	16.0	22.0	26.6
95	0.2	0.7	1.9	5.1	10.3	16.6	23.0	27.7
96	0.2	0.7	1.9	5.0	10.5	17.3	24.0	28.9
97	0.2	0.6	1.8	5.0	10.7	18.0	25.1	30.2
98	0.2	0.6	1.8	4.9	10.8	18.7	26.2	31.5
99	0.2	0.6	1.8	4.8	11.0	19.3	27.4	32.9
100	0.2	0.6	1.7	4.7	11.1	19.9	28.6	34.3

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
2	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
3	0.0	0.1	0.1	0.1	0.2	0.4	0.9	1.7
4	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.8
5	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8
6	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.8
7	0.1	0.1	0.1	0.2	0.3	0.4	1.0	1.9
8	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
9	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
10	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
11	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0
12	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.0
13	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
14	0.1	0.1	0.2	0.2	0.4	0.6	1.3	2.1
15	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
16	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
17	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
18	0.1	0.2	0.2	0.3	0.5	0.7	1.4	2.3
19	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
20	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5
21	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
22	0.1	0.2	0.3	0.4	0.6	0.9	1.6	2.6
23	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
24	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
25	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
26	0.2	0.3	0.3	0.5	0.7	1.1	1.9	2.9
27	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
28	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.1
29	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2
30	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.3
31	0.3	0.3	0.5	0.6	0.9	1.3	2.3	3.4
32	0.3	0.4	0.5	0.7	0.9	1.4	2.4	3.5
33	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
34	0.3	0.4	0.5	0.7	1.0	1.6	2.6	3.7
35	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.9
36	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0
37	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1
38	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.3
39	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4
40	0.4	0.6	0.8	1.0	1.4	2.1	3.3	4.6
41	0.4	0.6	0.8	1.1	1.5	2.2	3.4	4.8
42	0.4	0.6	0.8	1.1	1.6	2.3	3.6	4.9
43	0.4	0.6	0.9	1.2	1.7	2.4	3.7	5.1
44	0.4	0.7	0.9	1.3	1.7	2.5	3.9	5.3
45	0.4	0.7	1.0	1.3	1.8	2.6	4.1	5.5
46	0.4	0.7	1.1	1.4	1.9	2.8	4.2	5.7
47	0.4	0.7	1.1	1.5	2.0	2.9	4.4	6.0
48	0.4	0.8	1.2	1.6	2.1	3.0	4.6	6.2
49	0.4	0.8	1.2	1.7	2.3	3.2	4.8	6.4
50	0.4	0.8	1.3	1.7	2.4	3.3	5.0	6.7

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.4	0.8	1.3	1.8	2.5	3.5	5.2	6.9
52	0.4	0.8	1.4	1.9	2.6	3.7	5.5	7.2
53	0.4	0.8	1.5	2.0	2.8	3.8	5.7	7.5
54	0.4	0.8	1.5	2.1	2.9	4.0	6.0	7.8
55	0.4	0.9	1.6	2.3	3.0	4.2	6.2	8.1
56	0.3	0.9	1.6	2.4	3.2	4.4	6.5	8.4
57	0.3	0.9	1.7	2.5	3.4	4.6	6.8	8.8
58	0.3	0.9	1.7	2.6	3.5	4.9	7.1	9.1
59	0.3	0.9	1.7	2.7	3.7	5.1	7.4	9.5
60	0.3	0.9	1.8	2.9	3.9	5.4	7.7	9.9
61	0.3	0.9	1.8	3.0	4.1	5.6	8.1	10.3
62	0.3	0.8	1.8	3.1	4.3	5.9	8.4	10.7
63	0.3	0.8	1.9	3.2	4.5	6.2	8.8	11.2
64	0.3	0.8	1.9	3.3	4.7	6.5	9.2	11.6
65	0.3	0.8	1.9	3.5	5.0	6.8	9.6	12.1
66	0.3	0.8	1.9	3.6	5.2	7.1	10.1	12.6
67	0.3	0.8	2.0	3.7	5.5	7.4	10.5	13.2
68	0.3	0.8	2.0	3.8	5.8	7.8	11.0	13.7
69	0.3	0.7	2.0	3.8	6.0	8.2	11.5	14.3
70	0.3	0.7	2.0	3.9	6.3	8.6	12.0	14.9
71	0.3	0.7	1.9	4.0	6.5	9.0	12.5	15.5
72	0.3	0.7	1.9	4.1	6.8	9.4	13.1	16.2
73	0.2	0.7	1.9	4.1	7.1	9.9	13.7	16.9
74	0.2	0.7	1.8	4.2	7.3	10.3	14.3	17.6
75	0.2	0.7	1.8	4.3	7.6	10.8	15.0	18.4
76	0.2	0.7	1.8	4.3	7.8	11.4	15.6	19.2
77	0.2	0.6	1.7	4.4	8.0	11.9	16.3	20.0
78	0.2	0.6	1.7	4.4	8.3	12.5	17.1	20.9
79	0.2	0.6	1.7	4.4	8.5	13.0	17.9	21.8
80	0.2	0.6	1.7	4.4	8.7	13.6	18.7	22.7
81	0.2	0.6	1.7	4.4	8.9	14.1	19.5	23.7
82	0.2	0.6	1.6	4.4	9.0	14.7	20.4	24.7
83	0.2	0.6	1.6	4.3	9.2	15.3	21.4	25.8
84	0.2	0.6	1.6	4.2	9.3	15.9	22.3	27.0
85	0.2	0.5	1.5	4.2	9.5	16.5	23.4	28.1
86	0.2	0.5	1.5	4.1	9.6	17.0	24.4	29.4
87	0.2	0.5	1.5	4.0	9.7	17.6	25.6	30.7
88	0.2	0.5	1.5	4.0	9.8	18.1	26.8	32.0
89	0.2	0.5	1.4	3.9	9.9	18.6	28.0	33.5
90	0.2	0.5	1.4	3.9	10.0	19.0	29.2	35.0
91	0.2	0.5	1.4	3.8	10.0	19.5	30.4	36.5
92	0.2	0.5	1.3	3.8	10.0	19.9	31.6	38.2
93	0.2	0.5	1.3	3.7	10.0	20.2	32.9	39.9
94	0.2	0.4	1.3	3.7	9.9	20.6	34.2	41.7
95	0.2	0.4	1.3	3.6	9.7	21.0	35.6	43.6
96	0.2	0.4	1.2	3.5	9.5	21.3	36.9	45.6
97	0.2	0.4	1.2	3.5	9.4	21.6	38.1	47.4
98	0.2	0.4	1.2	3.4	9.3	21.9	39.3	49.3
99	0.2	0.4	1.2	3.4	9.1	22.2	40.5	51.3
100	0.2	0.4	1.1	3.3	9.0	22.5	41.6	53.3

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.1	0.1	0.1	0.2	0.4	1.0	1.8
2	0.1	0.1	0.1	0.2	0.2	0.4	1.0	1.8
3	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
4	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
5	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
6	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
7	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.0
8	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
9	0.1	0.1	0.2	0.2	0.4	0.6	1.3	2.1
10	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
11	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
12	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
13	0.1	0.2	0.2	0.3	0.5	0.7	1.4	2.3
14	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
15	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5
16	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
17	0.2	0.2	0.3	0.4	0.6	0.9	1.6	2.6
18	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
19	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
20	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
21	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
22	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
23	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
24	0.2	0.3	0.4	0.6	0.8	1.2	2.2	3.2
25	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.3
26	0.3	0.4	0.5	0.7	0.9	1.4	2.3	3.4
27	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.6
28	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.7
29	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.8
30	0.3	0.4	0.6	0.8	1.1	1.7	2.8	3.9
31	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1
32	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2
33	0.3	0.5	0.7	1.0	1.3	2.0	3.1	4.4
34	0.3	0.6	0.8	1.0	1.4	2.1	3.3	4.6
35	0.3	0.6	0.8	1.1	1.5	2.2	3.4	4.7
36	0.3	0.6	0.8	1.1	1.6	2.3	3.6	4.9
37	0.4	0.6	0.9	1.2	1.7	2.4	3.7	5.1
38	0.4	0.7	1.0	1.3	1.8	2.5	3.9	5.3
39	0.4	0.7	1.0	1.3	1.8	2.6	4.1	5.5
40	0.4	0.7	1.1	1.4	1.9	2.8	4.2	5.7
41	0.4	0.7	1.1	1.5	2.0	2.9	4.4	6.0
42	0.4	0.7	1.2	1.6	2.2	3.0	4.6	6.2
43	0.4	0.7	1.2	1.7	2.3	3.2	4.8	6.4
44	0.3	0.8	1.3	1.8	2.4	3.4	5.1	6.7
45	0.3	0.8	1.3	1.9	2.5	3.5	5.3	7.0
46	0.3	0.8	1.4	2.0	2.7	3.7	5.5	7.3
47	0.3	0.8	1.4	2.1	2.8	3.9	5.8	7.6
48	0.3	0.8	1.5	2.2	3.0	4.1	6.0	7.9
49	0.3	0.8	1.5	2.3	3.1	4.3	6.3	8.2
50	0.3	0.8	1.6	2.4	3.3	4.5	6.6	8.5
51	0.3	0.8	1.6	2.5	3.4	4.7	6.9	8.9
52	0.3	0.8	1.6	2.7	3.6	5.0	7.2	9.3
53	0.3	0.8	1.7	2.8	3.8	5.2	7.6	9.7
54	0.3	0.8	1.7	2.9	4.0	5.5	7.9	10.1
55	0.3	0.7	1.7	3.0	4.2	5.8	8.3	10.5
56	0.3	0.7	1.7	3.1	4.5	6.1	8.7	11.0
57	0.3	0.7	1.8	3.2	4.7	6.4	9.1	11.4
58	0.3	0.7	1.8	3.3	4.9	6.7	9.5	11.9
59	0.3	0.7	1.8	3.4	5.2	7.0	9.9	12.5
60	0.2	0.7	1.8	3.5	5.4	7.4	10.4	13.0
61	0.2	0.7	1.8	3.5	5.7	7.7	10.9	13.6
62	0.2	0.7	1.8	3.6	5.9	8.1	11.4	14.2
63	0.2	0.6	1.7	3.7	6.2	8.5	11.9	14.8
64	0.2	0.6	1.7	3.7	6.4	8.9	12.4	15.4
65	0.2	0.6	1.7	3.8	6.7	9.4	13.0	16.1
66	0.2	0.6	1.6	3.9	6.9	9.9	13.6	16.8
67	0.2	0.6	1.6	3.9	7.1	10.4	14.3	17.6
68	0.2	0.6	1.6	4.0	7.3	10.9	14.9	18.3
69	0.2	0.6	1.6	4.0	7.5	11.4	15.6	19.1
70	0.2	0.6	1.5	4.0	7.7	11.9	16.4	20.0
71	0.2	0.5	1.5	4.0	7.9	12.4	17.1	20.9
72	0.2	0.5	1.5	4.0	8.0	12.9	17.9	21.8
73	0.2	0.5	1.5	3.9	8.2	13.5	18.8	22.8
74	0.2	0.5	1.4	3.9	8.3	14.1	19.7	23.8
75	0.2	0.5	1.4	3.8	8.5	14.6	20.6	24.9
76	0.2	0.5	1.4	3.7	8.6	15.1	21.6	26.0
77	0.2	0.5	1.4	3.7	8.7	15.6	22.6	27.2
78	0.2	0.5	1.3	3.6	8.8	16.1	23.7	28.4
79	0.2	0.5	1.3	3.6	8.9	16.5	24.8	29.7
80	0.2	0.4	1.3	3.5	9.0	17.0	25.9	31.1
81	0.1	0.4	1.3	3.5	9.1	17.4	27.0	32.5
82	0.1	0.4	1.2	3.4	9.1	17.8	28.1	33.9
83	0.1	0.4	1.2	3.4	9.0	18.1	29.3	35.5
84	0.1	0.4	1.2	3.3	9.0	18.5	30.5	37.1
85	0.1	0.4	1.2	3.3	8.8	18.8	31.7	38.8
86	0.1	0.4	1.1	3.2	8.6	19.1	33.0	40.6
87	0.1	0.4	1.1	3.2	8.5	19.4	34.1	42.3
88	0.1	0.4	1.1	3.1	8.4	19.7	35.2	44.0
89	0.1	0.4	1.1	3.0	8.3	19.9	36.3	45.8
90	0.1	0.4	1.0	3.0	8.1	20.2	37.3	47.7
91	0.1	0.3	1.0	2.9	8.0	20.4	38.3	49.5
92	0.1	0.3	1.0	2.9	7.9	20.5	39.2	51.5
93	0.1	0.3	1.0	2.8	7.8	20.6	40.1	53.3
94	0.1	0.3	0.9	2.8	7.7	20.6	41.0	55.1
95	0.1	0.3	0.9	2.7	7.6	20.5	41.7	56.8
96	0.1	0.3	0.9	2.7	7.5	20.3	42.4	58.4
97	0.1	0.3	0.9	2.6	7.4	19.9	43.2	60.0
98	0.1	0.3	0.9	2.5	7.3	19.6	43.9	61.5
99	0.1	0.3	0.8	2.5	7.1	19.3	44.5	63.0
100	0.1	0.3	0.8	2.4	7.0	19.0	45.1	64.3

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.1	0.1	0.2	0.3	0.5	1.1	1.9
2	0.1	0.1	0.1	0.2	0.3	0.5	1.1	2.0
3	0.1	0.1	0.1	0.2	0.3	0.5	1.2	2.0
4	0.1	0.1	0.2	0.2	0.3	0.6	1.2	2.1
5	0.1	0.1	0.2	0.2	0.4	0.6	1.2	2.1
6	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
7	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
8	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
9	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3
10	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
11	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.5
12	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
13	0.2	0.2	0.3	0.4	0.6	0.9	1.6	2.6
14	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
15	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
16	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
17	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
18	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
19	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
20	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
21	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3
22	0.3	0.4	0.5	0.7	0.9	1.4	2.3	3.5
23	0.3	0.4	0.5	0.7	1.0	1.5	2.4	3.6
24	0.3	0.4	0.5	0.7	1.0	1.5	2.6	3.7
25	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8
26	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0
27	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1
28	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.3
29	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4
30	0.3	0.6	0.8	1.0	1.4	2.1	3.3	4.6
31	0.3	0.6	0.8	1.1	1.5	2.2	3.5	4.8
32	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0
33	0.3	0.6	0.9	1.2	1.7	2.4	3.8	5.2
34	0.3	0.6	1.0	1.3	1.8	2.6	4.0	5.4
35	0.3	0.7	1.0	1.4	1.9	2.7	4.1	5.6
36	0.3	0.7	1.1	1.5	2.0	2.9	4.3	5.8
37	0.3	0.7	1.1	1.6	2.1	3.0	4.5	6.1
38	0.3	0.7	1.2	1.6	2.2	3.1	4.7	6.3
39	0.3	0.7	1.2	1.7	2.4	3.3	5.0	6.6
40	0.3	0.7	1.3	1.8	2.5	3.5	5.2	6.9
41	0.3	0.7	1.3	1.9	2.6	3.7	5.4	7.2
42	0.3	0.7	1.4	2.1	2.8	3.9	5.7	7.5
43	0.3	0.8	1.4	2.2	2.9	4.1	6.0	7.8
44	0.3	0.8	1.5	2.3	3.1	4.3	6.3	8.1
45	0.3	0.7	1.5	2.4	3.3	4.5	6.5	8.5
46	0.3	0.7	1.5	2.5	3.4	4.7	6.9	8.8
47	0.3	0.7	1.6	2.6	3.6	5.0	7.2	9.2
48	0.3	0.7	1.6	2.7	3.8	5.2	7.5	9.6
49	0.3	0.7	1.6	2.8	4.0	5.5	7.9	10.0
50	0.3	0.7	1.6	2.9	4.2	5.8	8.3	10.5
51	0.2	0.7	1.6	3.0	4.5	6.1	8.6	10.9
52	0.2	0.6	1.7	3.1	4.7	6.4	9.1	11.4
53	0.2	0.6	1.7	3.2	4.9	6.7	9.5	11.9
54	0.2	0.6	1.7	3.3	5.2	7.1	9.9	12.5
55	0.2	0.6	1.7	3.3	5.4	7.4	10.4	13.0
56	0.2	0.6	1.6	3.4	5.6	7.8	10.9	13.6
57	0.2	0.6	1.6	3.5	5.9	8.2	11.4	14.2
58	0.2	0.6	1.6	3.5	6.1	8.6	12.0	14.9
59	0.2	0.6	1.5	3.6	6.4	9.1	12.6	15.5
60	0.2	0.6	1.5	3.6	6.6	9.5	13.2	16.2
61	0.2	0.5	1.5	3.7	6.9	10.0	13.8	17.0
62	0.2	0.5	1.4	3.7	7.0	10.5	14.5	17.7
63	0.2	0.5	1.4	3.7	7.1	11.0	15.2	18.5
64	0.2	0.5	1.4	3.7	7.3	11.5	15.9	19.4
65	0.2	0.5	1.4	3.7	7.4	12.0	16.6	20.3
66	0.2	0.5	1.4	3.7	7.4	12.5	17.4	21.2
67	0.2	0.5	1.3	3.6	7.7	13.1	18.3	22.2
68	0.2	0.5	1.3	3.5	7.9	13.6	19.2	23.2
69	0.2	0.4	1.3	3.5	8.0	14.1	20.1	24.3
70	0.1	0.4	1.3	3.4	8.1	14.5	21.1	25.4
71	0.1	0.4	1.2	3.3	8.2	15.0	22.1	26.6
72	0.1	0.4	1.2	3.3	8.3	15.4	23.1	27.8
73	0.1	0.4	1.2	3.2	8.4	15.8	24.2	29.1
74	0.1	0.4	1.2	3.2	8.4	16.2	25.3	30.4
75	0.1	0.4	1.1	3.2	8.4	16.5	26.3	31.8
76	0.1	0.4	1.1	3.1	8.3	16.9	27.4	33.3
77	0.1	0.4	1.1	3.1	8.2	17.2	28.6	34.9
78	0.1	0.4	1.1	3.0	8.1	17.5	29.7	36.5
79	0.1	0.3	1.0	2.9	7.9	17.8	30.9	38.2
80	0.1	0.3	1.0	2.9	7.9	18.0	31.9	39.8
81	0.1	0.3	1.0	2.8	7.7	18.3	32.9	41.4
82	0.1	0.3	1.0	2.8	7.6	18.5	33.9	43.1
83	0.1	0.3	0.9	2.7	7.5	18.7	34.9	44.8
84	0.1	0.3	0.9	2.7	7.4	18.9	35.8	46.6
85	0.1	0.3	0.9	2.6	7.3	19.0	36.6	48.5
86	0.1	0.3	0.9	2.6	7.2	19.0	37.4	50.1
87	0.1	0.3	0.9	2.5	7.1	19.0	38.2	51.7
88	0.1	0.3	0.8	2.5	7.0	18.9	38.9	53.3
89	0.1	0.3	0.8	2.4	6.9	18.6	39.6	54.9
90	0.1	0.3	0.8	2.4	6.8	18.2	40.2	56.2
91	0.1	0.3	0.8	2.3	6.6	17.9	40.8	57.6
92	0.1	0.3	0.8	2.3	6.5	17.6	41.4	58.9
93	0.1	0.3	0.8	2.2	6.4	17.4	42.0	60.1
94	0.1	0.3	0.7	2.2	6.3	17.2	42.5	61.2
95	0.1	0.3	0.7	2.1	6.2	16.9	42.9	62.3
96	0.1	0.3	0.7	2.1	6.0	16.7	43.3	63.3
97	0.1	0.3	0.7	2.0	5.9	16.5	43.5	64.3
98	0.1	0.3	0.7	2.0	5.8	16.3	43.5	65.3
99	0.1	0.3	0.7	1.9	5.7	16.1	43.3	66.2
100	0.1	0.3	0.7	1.9	5.6	15.9	42.9	67.0

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.1	0.2	0.2	0.4	0.6	1.2	2.1
3	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.1
4	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
5	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.3
6	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3
7	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
8	0.1	0.2	0.2	0.4	0.5	0.8	1.5	2.5
9	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
10	0.2	0.2	0.3	0.4	0.6	0.9	1.6	2.6
11	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
12	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.8
13	0.2	0.2	0.3	0.5	0.7	1.0	1.9	2.8
14	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
15	0.2	0.3	0.4	0.5	0.8	1.1	2.0	3.0
16	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
17	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
18	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.4
19	0.3	0.4	0.5	0.7	0.9	1.4	2.4	3.5
20	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
21	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.7
22	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9
23	0.3	0.5	0.6	0.9	1.2	1.7	2.8	4.0
24	0.3	0.5	0.7	0.9	1.3	1.8	3.0	4.2
25	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3
26	0.3	0.5	0.8	1.0	1.4	2.0	3.2	4.5
27	0.3	0.6	0.8	1.1	1.5	2.1	3.4	4.7
28	0.3	0.6	0.9	1.1	1.6	2.3	3.5	4.9
29	0.3	0.6	0.9	1.2	1.7	2.4	3.7	5.1
30	0.3	0.6	1.0	1.3	1.8	2.5	3.9	5.3
31	0.3	0.6	1.0	1.4	1.9	2.6	4.1	5.5
32	0.3	0.7	1.1	1.4	2.0	2.8	4.3	5.7
33	0.3	0.7	1.1	1.5	2.1	2.9	4.5	6.0
34	0.3	0.7	1.2	1.6	2.2	3.1	4.7	6.2
35	0.3	0.7	1.2	1.7	2.3	3.3	4.9	6.5
36	0.3	0.7	1.3	1.8	2.5	3.4	5.1	6.8
37	0.3	0.7	1.3	1.9	2.6	3.6	5.4	7.1
38	0.3	0.7	1.3	2.0	2.7	3.8	5.6	7.4
39	0.3	0.7	1.4	2.1	2.9	4.0	5.9	7.7
40	0.3	0.7	1.4	2.3	3.1	4.2	6.2	8.0
41	0.3	0.7	1.4	2.4	3.2	4.5	6.5	8.4
42	0.3	0.7	1.5	2.5	3.4	4.7	6.8	8.8
43	0.3	0.7	1.5	2.6	3.6	4.9	7.1	9.2
44	0.2	0.7	1.5	2.7	3.8	5.2	7.5	9.6
45	0.2	0.6	1.5	2.8	4.0	5.5	7.9	10.0
46	0.2	0.6	1.6	2.9	4.2	5.8	8.2	10.5
47	0.2	0.6	1.6	3.0	4.5	6.1	8.6	10.9
48	0.2	0.6	1.6	3.0	4.7	6.4	9.1	11.4
49	0.2	0.6	1.6	3.1	4.9	6.7	9.5	11.9
50	0.2	0.6	1.6	3.2	5.2	7.1	10.0	12.5
51	0.2	0.6	1.5	3.2	5.4	7.5	10.5	13.1
52	0.2	0.6	1.5	3.3	5.6	7.8	11.0	13.7
53	0.2	0.5	1.5	3.3	5.9	8.3	11.5	14.3
54	0.2	0.5	1.4	3.4	6.1	8.7	12.1	14.9
55	0.2	0.5	1.4	3.4	6.3	9.2	12.7	15.6
56	0.2	0.5	1.4	3.5	6.5	9.6	13.3	16.4
57	0.2	0.5	1.4	3.5	6.6	10.1	13.9	17.1
58	0.2	0.5	1.3	3.5	6.8	10.6	14.6	17.9
59	0.2	0.5	1.3	3.5	6.9	11.1	15.3	18.7
60	0.2	0.5	1.3	3.5	7.1	11.6	16.1	19.6
61	0.2	0.4	1.3	3.4	7.2	12.1	16.9	20.5
62	0.1	0.4	1.2	3.3	7.3	12.6	17.7	21.5
63	0.1	0.4	1.2	3.3	7.5	13.1	18.6	22.5
64	0.1	0.4	1.2	3.2	7.6	13.5	19.5	23.6
65	0.1	0.4	1.2	3.2	7.7	13.9	20.5	24.7
66	0.1	0.4	1.1	3.1	7.8	14.4	21.5	25.8
67	0.1	0.4	1.1	3.1	7.8	14.8	22.5	27.1
68	0.1	0.4	1.1	3.0	7.9	15.1	23.5	28.3
69	0.1	0.4	1.1	3.0	7.9	15.5	24.5	29.7
70	0.1	0.4	1.0	2.9	7.8	15.8	25.6	31.1
71	0.1	0.3	1.0	2.9	7.8	16.1	26.7	32.6
72	0.1	0.3	1.0	2.8	7.6	16.4	27.8	34.1
73	0.1	0.3	1.0	2.8	7.5	16.6	28.9	35.7
74	0.1	0.3	0.9	2.7	7.3	16.9	29.9	37.2
75	0.1	0.3	0.9	2.7	7.2	17.1	30.9	38.8
76	0.1	0.3	0.9	2.6	7.1	17.4	31.8	40.4
77	0.1	0.3	0.9	2.6	7.0	17.6	32.7	42.1
78	0.1	0.3	0.9	2.5	6.9	17.7	33.6	43.8
79	0.1	0.3	0.8	2.5	6.8	17.8	34.4	45.5
80	0.1	0.3	0.8	2.4	6.7	17.8	35.1	47.1
81	0.1	0.3	0.8	2.4	6.6	17.8	35.8	48.6
82	0.1	0.3	0.8	2.3	6.5	17.6	36.5	50.1
83	0.1	0.3	0.8	2.3	6.4	17.4	37.1	51.5
84	0.1	0.3	0.7	2.2	6.3	17.0	37.7	52.8
85	0.1	0.3	0.7	2.2	6.2	16.7	38.3	54.1
86	0.1	0.3	0.7	2.1	6.1	16.5	38.9	55.3
87	0.1	0.3	0.7	2.1	6.0	16.3	39.4	56.5
88	0.1	0.3	0.7	2.0	5.9	16.0	39.8	57.5
89	0.1	0.3	0.7	2.0	5.7	15.8	40.3	58.5
90	0.1	0.3	0.7	1.9	5.6	15.6	40.6	59.5
91	0.1	0.3	0.7	1.9	5.5	15.5	40.7	60.4
92	0.1	0.3	0.6	1.9	5.4	15.3	40.7	61.3
93	0.1	0.3	0.6	1.8	5.3	15.0	40.5	62.1
94	0.1	0.3	0.6	1.8	5.2	14.8	40.1	62.9
95	0.1	0.3	0.6	1.7	5.1	14.6	39.4	63.6
96	0.1	0.3	0.6	1.7	5.0	14.3	39.7	64.2
97	0.1	0.3	0.6	1.7	4.9	14.1	38.1	64.6
98	0.1	0.3	0.6	1.6	4.8	13.8	37.6	64.7
99	0.1	0.3	0.6	1.6	4.7	13.6	37.1	64.5
100	0.1	0.3	0.6	1.6	4.6	13.3	36.6	64.1

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.1	0.2	0.3	0.4	0.6	1.3	2.2
2	0.1	0.1	0.2	0.3	0.4	0.7	1.3	2.2
3	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3
4	0.1	0.2	0.2	0.3	0.5	0.7	1.4	2.3
5	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
6	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
7	0.1	0.2	0.3	0.4	0.6	0.9	1.6	2.6
8	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6
9	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7
10	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
11	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
12	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
13	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
14	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
15	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3
16	0.3	0.4	0.5	0.7	0.9	1.4	2.4	3.4
17	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
18	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.7
19	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8
20	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0
21	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.1
22	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3
23	0.3	0.5	0.8	1.0	1.4	2.0	3.2	4.5
24	0.3	0.6	0.8	1.1	1.5	2.1	3.4	4.7
25	0.3	0.6	0.9	1.1	1.6	2.3	3.5	4.9
26	0.3	0.6	0.9	1.2	1.7	2.4	3.7	5.1
27	0.3	0.6	1.0	1.3	1.8	2.5	3.9	5.3
28	0.3	0.6	1.0	1.4	1.9	2.6	4.1	5.5
29	0.3	0.6	1.1	1.5	2.0	2.8	4.3	5.7
30	0.3	0.6	1.1	1.5	2.1	2.9	4.5	6.0
31	0.3	0.7	1.2	1.6	2.2	3.1	4.7	6.2
32	0.3	0.7	1.2	1.7	2.3	3.3	4.9	6.5
33	0.3	0.7	1.2	1.8	2.5	3.5	5.2	6.9
34	0.3	0.7	1.3	1.9	2.6	3.6	5.4	7.1
35	0.3	0.7	1.3	2.0	2.8	3.8	5.7	7.4
36	0.3	0.7	1.4	2.2	2.9	4.0	6.0	7.7
37	0.3	0.7	1.4	2.3	3.1	4.3	6.2	8.1
38	0.2	0.7	1.4	2.4	3.3	4.5	6.6	8.5
39	0.2	0.6	1.4	2.5	3.5	4.7	6.9	8.9
40	0.2	0.6	1.5	2.6	3.7	5.0	7.2	9.2
41	0.2	0.6	1.5	2.7	3.9	5.3	7.6	9.7
42	0.2	0.6	1.5	2.8	4.1	5.6	8.0	10.1
43	0.2	0.6	1.5	2.8	4.3	5.9	8.4	10.6
44	0.2	0.6	1.5	2.9	4.5	6.2	8.8	11.1
45	0.2	0.6	1.5	3.0	4.8	6.5	9.2	11.6
46	0.2	0.6	1.5	3.0	5.0	6.9	9.7	12.1
47	0.2	0.5	1.4	3.1	5.2	7.2	10.1	12.7
48	0.2	0.5	1.4	3.2	5.4	7.6	10.7	13.3
49	0.2	0.5	1.4	3.2	5.7	8.0	11.2	13.9
50	0.2	0.5	1.4	3.3	5.9	8.5	11.7	14.6
51	0.2	0.5	1.3	3.3	6.0	8.9	12.3	15.2
52	0.2	0.5	1.3	3.3	4.2	9.4	12.9	16.0
53	0.2	0.5	1.3	3.3	6.4	9.8	13.6	16.7
54	0.2	0.5	1.3	3.3	6.6	10.3	14.3	17.5
55	0.2	0.4	1.2	3.3	6.7	10.8	15.0	18.3
56	0.1	0.4	1.2	3.3	6.8	11.3	15.7	19.2
57	0.1	0.4	1.2	3.2	6.9	11.8	16.5	20.1
58	0.1	0.4	1.2	3.1	7.1	12.3	17.4	21.1
59	0.1	0.4	1.1	3.1	7.2	12.7	18.2	22.1
60	0.1	0.4	1.1	3.0	7.1	13.1	19.2	23.1
61	0.1	0.4	1.1	3.0	7.4	13.5	20.1	24.3
62	0.1	0.4	1.1	2.9	7.4	13.9	21.1	25.4
63	0.1	0.4	1.0	2.9	7.5	14.3	22.1	26.6
64	0.1	0.4	1.0	2.8	7.5	14.6	23.1	27.9
65	0.1	0.3	1.0	2.8	7.5	14.9	24.1	29.3
66	0.1	0.3	1.0	2.7	7.4	15.2	25.1	30.7
67	0.1	0.3	1.0	2.7	7.3	15.5	26.2	32.2
68	0.1	0.3	0.9	2.6	7.1	15.8	27.3	33.7
69	0.1	0.3	0.9	2.6	7.0	16.0	28.3	35.2
70	0.1	0.3	0.9	2.5	6.9	16.2	29.2	36.7
71	0.1	0.3	0.9	2.5	6.8	16.4	30.1	38.2
72	0.1	0.3	0.8	2.4	6.7	16.6	31.0	39.8
73	0.1	0.3	0.8	2.4	6.6	16.8	31.8	41.5
74	0.1	0.3	0.8	2.3	6.5	16.9	32.6	43.1
75	0.1	0.3	0.8	2.3	6.4	16.9	33.3	44.6
76	0.1	0.3	0.8	2.2	6.3	16.9	34.0	46.1
77	0.1	0.3	0.7	2.2	6.2	16.7	34.6	47.5
78	0.1	0.3	0.7	2.1	6.1	16.4	35.2	48.9
79	0.1	0.3	0.7	2.1	6.0	16.1	35.8	50.2
80	0.1	0.3	0.7	2.0	5.9	15.8	36.4	51.4
81	0.1	0.3	0.7	2.0	5.8	15.6	36.9	52.6
82	0.1	0.3	0.7	2.0	5.4	15.4	37.3	53.6
83	0.1	0.3	0.6	1.9	5.5	15.1	37.8	54.6
84	0.1	0.2	0.6	1.9	5.4	14.9	38.2	55.6
85	0.1	0.2	0.6	1.8	5.3	14.8	38.4	56.5
86	0.1	0.2	0.6	1.8	5.2	14.6	38.5	57.4
87	0.1	0.2	0.6	1.8	5.1	14.4	38.5	58.2
88	0.1	0.2	0.6	1.7	5.0	14.2	38.3	59.0
89	0.1	0.2	0.6	1.7	4.9	13.9	37.8	59.7
90	0.1	0.2	0.6	1.6	4.8	13.7	37.1	60.3
91	0.1	0.3	0.6	1.6	4.7	13.5	36.5	60.9
92	0.1	0.3	0.6	1.6	4.6	13.2	35.9	61.1
93	0.1	0.3	0.6	1.5	4.5	13.0	35.4	61.3
94	0.1	0.3	0.6	1.5	4.4	12.8	35.0	61.0
95	0.1	0.3	0.6	1.5	4.3	12.5	34.5	60.5
96	0.1	0.3	0.6	1.4	4.2	12.3	34.1	59.6
97	0.1	0.3	0.6	1.4	4.2	12.1	33.7	58.4
98	0.1	0.3	0.6	1.4	4.1	11.8	33.3	57.6
99	0.1	0.3	0.6	1.4	4.0	11.6	32.9	56.8
100	0.1	0.3	0.6	1.4	3.9	11.4	32.4	56.0

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.2	0.3	0.4	0.7	1.4	2.3
2	0.1	0.2	0.2	0.3	0.5	0.7	1.4	2.4
3	0.1	0.2	0.2	0.3	0.5	0.8	1.5	2.4
4	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
5	0.2	0.2	0.3	0.4	0.6	0.9	1.6	2.6
6	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.7
7	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7
8	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
9	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
10	0.2	0.3	0.4	0.5	0.8	1.1	2.0	3.0
11	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
12	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
13	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.4
14	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.5
15	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
16	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.8
17	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9
18	0.3	0.5	0.6	0.9	1.2	1.8	2.9	4.1
19	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2
20	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4
21	0.3	0.5	0.8	1.0	1.4	2.1	3.3	4.6
22	0.3	0.6	0.8	1.1	1.5	2.2	3.4	4.8
23	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0
24	0.3	0.6	0.9	1.3	1.7	2.4	3.8	5.2
25	0.3	0.6	1.0	1.3	1.8	2.6	4.0	5.4
26	0.3	0.6	1.0	1.4	1.9	2.7	4.2	5.6
27	0.3	0.6	1.1	1.5	2.0	2.9	4.4	5.9
28	0.3	0.6	1.1	1.6	2.2	3.0	4.6	6.1
29	0.3	0.6	1.2	1.7	2.3	3.2	4.8	6.4
30	0.3	0.7	1.2	1.8	2.4	3.4	5.1	6.7
31	0.3	0.7	1.3	1.9	2.6	3.6	5.3	7.0
32	0.3	0.7	1.3	2.0	2.7	3.8	5.6	7.3
33	0.2	0.7	1.3	2.1	2.9	4.0	5.9	7.6
34	0.2	0.6	1.3	2.2	3.1	4.2	6.2	8.0
35	0.2	0.6	1.4	2.3	3.2	4.4	6.5	8.3
36	0.2	0.6	1.4	2.4	3.4	4.7	6.8	8.7
37	0.2	0.6	1.4	2.5	3.6	4.9	7.1	9.1
38	0.2	0.6	1.4	2.6	3.8	5.2	7.5	9.6
39	0.2	0.6	1.4	2.7	4.1	5.5	7.9	10.0
40	0.2	0.6	1.5	2.8	4.3	5.8	8.3	10.5
41	0.2	0.5	1.4	2.8	4.5	6.1	8.7	11.0
42	0.2	0.5	1.4	2.9	4.7	6.5	9.1	11.5
43	0.2	0.5	1.4	3.0	4.9	6.8	9.6	12.0
44	0.2	0.5	1.4	3.0	5.2	7.2	10.1	12.6
45	0.2	0.5	1.3	3.1	5.4	7.6	10.6	13.2
46	0.2	0.5	1.3	3.1	5.6	8.0	11.1	13.8
47	0.2	0.5	1.3	3.2	5.8	8.4	11.7	14.5
48	0.2	0.5	1.3	3.2	5.9	8.9	12.3	15.2
49	0.2	0.4	1.2	3.2	6.1	9.4	12.9	15.9
50	0.2	0.4	1.2	3.2	6.3	9.8	13.6	16.7
51	0.1	0.4	1.2	3.2	6.4	10.3	14.3	17.5
52	0.1	0.4	1.2	3.2	6.5	10.7	15.0	18.3
53	0.1	0.4	1.1	3.1	6.6	11.2	15.8	19.2
54	0.1	0.4	1.1	3.0	6.8	11.7	16.6	20.1
55	0.1	0.4	1.1	3.0	6.9	12.1	17.4	21.1
56	0.1	0.4	1.1	2.9	7.0	12.6	18.3	22.2
57	0.1	0.4	1.0	2.9	7.0	13.0	19.3	23.2
58	0.1	0.4	1.0	2.8	7.1	13.3	20.2	24.4
59	0.1	0.3	1.0	2.8	7.2	13.7	21.2	25.6
60	0.1	0.3	1.0	2.7	7.2	14.0	22.1	26.8
61	0.1	0.3	1.0	2.7	7.1	14.3	23.1	28.1
62	0.1	0.3	0.9	2.6	7.1	14.6	24.1	29.5
63	0.1	0.3	0.9	2.6	6.9	14.9	25.2	31.0
64	0.1	0.3	0.9	2.5	6.8	15.1	26.2	32.5
65	0.1	0.3	0.9	2.5	6.7	15.3	27.2	33.9
66	0.1	0.3	0.8	2.4	6.6	15.6	28.1	35.4
67	0.1	0.3	0.8	2.4	6.5	15.8	28.9	36.9
68	0.1	0.3	0.8	2.3	6.3	15.9	29.8	38.4
69	0.1	0.3	0.8	2.3	6.3	16.1	30.6	40.0
70	0.1	0.3	0.8	2.2	6.2	16.2	31.3	41.6
71	0.1	0.3	0.7	2.2	6.1	16.2	32.0	43.1
72	0.1	0.3	0.7	2.1	6.0	16.1	32.6	44.5
73	0.1	0.2	0.7	2.1	5.9	15.9	33.2	45.8
74	0.1	0.2	0.7	2.0	5.8	15.6	33.8	47.1
75	0.1	0.2	0.7	2.0	5.7	15.3	34.4	48.3
76	0.1	0.2	0.7	1.9	5.6	15.0	34.9	49.5
77	0.1	0.2	0.6	1.9	5.5	14.8	35.4	50.6
78	0.1	0.2	0.6	1.8	5.3	14.6	35.8	51.6
79	0.1	0.2	0.6	1.8	5.2	14.4	36.2	52.5
80	0.1	0.2	0.6	1.8	5.1	14.2	36.6	53.4
81	0.1	0.2	0.6	1.7	5.0	14.0	36.7	54.3
82	0.1	0.2	0.6	1.7	4.9	13.9	36.8	55.1
83	0.1	0.2	0.6	1.7	4.8	13.6	36.7	55.9
84	0.1	0.2	0.6	1.6	4.7	13.4	36.3	56.6
85	0.1	0.2	0.6	1.6	4.6	13.2	35.8	57.2
86	0.1	0.2	0.6	1.5	4.5	13.0	35.1	57.8
87	0.1	0.2	0.5	1.5	4.4	12.7	34.5	58.2
88	0.1	0.2	0.5	1.5	4.3	12.5	34.0	58.4
89	0.1	0.2	0.5	1.4	4.2	12.3	33.5	58.3
90	0.1	0.3	0.5	1.4	4.2	12.1	33.1	57.9
91	0.1	0.3	0.5	1.4	4.1	11.8	32.7	57.2
92	0.1	0.3	0.5	1.4	4.0	11.6	32.3	56.2
93	0.1	0.3	0.5	1.3	3.9	11.4	31.9	55.3
94	0.1	0.3	0.5	1.3	3.8	11.2	31.5	54.5
95	0.1	0.3	0.5	1.3	3.7	11.0	31.1	53.7
96	0.1	0.3	0.5	1.3	3.6	10.8	30.6	53.0
97	0.1	0.3	0.5	1.3	3.6	10.5	30.1	52.3
98	0.1	0.3	0.5	1.3	3.5	10.3	29.6	51.7
99	0.1	0.3	0.6	1.2	3.4	10.1	29.1	51.1
100	0.1	0.3	0.6	1.2	3.3	9.9	28.6	50.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 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
2	0.1	0.2	0.3	0.4	0.5	0.8	1.6	2.5
3	0.2	0.2	0.3	0.4	0.6	0.9	1.6	2.6
4	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6
5	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7
6	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
7	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
8	0.2	0.3	0.4	0.5	0.8	1.1	2.0	3.0
9	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
10	0.2	0.3	0.4	0.6	0.9	1.3	2.2	3.2
11	0.2	0.4	0.5	0.6	0.9	1.3	2.3	3.4
12	0.3	0.4	0.5	0.7	1.0	1.4	2.4	3.5
13	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
14	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.8
15	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9
16	0.3	0.5	0.7	0.9	1.2	1.8	2.9	4.1
17	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2
18	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4
19	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6
20	0.3	0.6	0.8	1.1	1.5	2.2	3.5	4.8
21	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0
22	0.3	0.6	0.9	1.3	1.7	2.5	3.8	5.2
23	0.3	0.6	1.0	1.4	1.8	2.6	4.0	5.4
24	0.3	0.6	1.0	1.4	2.0	2.8	4.2	5.7
25	0.3	0.6	1.1	1.5	2.1	2.9	4.4	5.9
26	0.3	0.6	1.1	1.6	2.2	3.1	4.6	6.2
27	0.3	0.6	1.2	1.7	2.3	3.3	4.9	6.5
28	0.3	0.6	1.2	1.8	2.5	3.4	5.1	6.8
29	0.2	0.6	1.2	1.9	2.6	3.6	5.4	7.1
30	0.2	0.6	1.3	2.0	2.8	3.8	5.7	7.4
31	0.2	0.6	1.3	2.1	2.9	4.1	6.0	7.7
32	0.2	0.6	1.3	2.3	3.1	4.3	6.3	8.1
33	0.2	0.6	1.3	2.4	3.3	4.5	6.6	8.5
34	0.2	0.6	1.4	2.4	3.5	4.8	6.9	8.9
35	0.2	0.6	1.4	2.5	3.7	5.1	7.3	9.3
36	0.2	0.5	1.4	2.6	3.9	5.3	7.6	9.7
37	0.2	0.5	1.4	2.7	4.1	5.6	8.0	10.2
38	0.2	0.5	1.4	2.8	4.3	5.9	8.4	10.7
39	0.2	0.5	1.4	2.8	4.6	6.3	8.9	11.2
40	0.2	0.5	1.4	2.9	4.8	6.6	9.3	11.7
41	0.2	0.5	1.3	2.9	5.0	7.0	9.8	12.3
42	0.2	0.5	1.3	3.0	5.2	7.4	10.3	12.9
43	0.2	0.5	1.3	3.0	5.4	7.8	10.9	13.5
44	0.2	0.5	1.2	3.1	5.6	8.2	11.4	14.2
45	0.2	0.4	1.2	3.1	5.8	8.7	12.0	14.9
46	0.2	0.4	1.2	3.1	5.9	9.1	12.6	15.6
47	0.1	0.4	1.2	3.1	6.1	9.6	13.3	16.3
48	0.1	0.4	1.1	3.1	6.2	10.0	14.0	17.1
49	0.1	0.4	1.1	3.0	6.3	10.5	14.7	18.0
50	0.1	0.4	1.1	3.0	6.4	11.0	15.5	18.9
51	0.1	0.4	1.1	2.9	6.6	11.4	16.3	19.8
52	0.1	0.4	1.0	2.8	6.7	11.9	17.1	20.8
53	0.1	0.4	1.0	2.8	6.7	12.3	18.0	21.8
54	0.1	0.3	1.0	2.7	6.8	12.6	19.0	22.9
55	0.1	0.3	1.0	2.7	6.9	13.0	19.9	24.0
56	0.1	0.3	1.0	2.6	6.9	13.3	20.9	25.2
57	0.1	0.3	0.9	2.6	6.9	13.6	21.8	26.5
58	0.1	0.3	0.9	2.6	6.9	13.9	22.8	27.8
59	0.1	0.3	0.9	2.5	6.8	14.2	23.8	29.2
60	0.1	0.3	0.9	2.5	6.6	14.4	24.8	30.6
61	0.1	0.3	0.8	2.4	6.5	14.7	25.8	32.1
62	0.1	0.3	0.8	2.4	6.4	14.9	26.7	33.5
63	0.1	0.3	0.8	2.3	6.2	15.1	27.5	34.9
64	0.1	0.3	0.8	2.2	6.1	15.3	28.4	36.4
65	0.1	0.3	0.8	2.2	6.0	15.4	29.1	38.0
66	0.1	0.3	0.7	2.1	6.0	15.5	29.9	39.6
67	0.1	0.2	0.7	2.1	5.9	15.5	30.6	41.0
68	0.1	0.2	0.7	2.1	5.8	15.5	31.2	42.4
69	0.1	0.2	0.7	2.0	5.7	15.3	31.8	43.7
70	0.1	0.2	0.7	2.0	5.6	15.1	32.4	44.9
71	0.1	0.2	0.6	1.9	5.5	14.8	32.9	46.2
72	0.1	0.2	0.6	1.9	5.4	14.5	33.4	47.3
73	0.1	0.2	0.6	1.8	5.3	14.3	33.9	48.4
74	0.1	0.2	0.6	1.8	5.2	14.1	34.3	49.4
75	0.1	0.2	0.6	1.7	5.1	13.8	34.7	50.2
76	0.1	0.2	0.6	1.7	4.9	13.7	35.1	51.1
77	0.1	0.2	0.6	1.7	4.8	13.5	35.3	52.0
78	0.1	0.2	0.6	1.6	4.7	13.3	35.2	52.8
79	0.1	0.2	0.6	1.6	4.7	13.1	35.2	53.5
80	0.1	0.2	0.5	1.6	4.6	12.9	34.9	54.2
81	0.1	0.2	0.5	1.5	4.5	12.7	34.4	54.9
82	0.1	0.2	0.5	1.5	4.4	12.5	33.7	55.5
83	0.1	0.2	0.5	1.4	4.3	12.2	33.2	55.8
84	0.1	0.2	0.5	1.4	4.2	12.0	32.7	56.0
85	0.1	0.2	0.5	1.4	4.1	11.8	32.2	55.9
86	0.1	0.2	0.5	1.4	4.0	11.6	31.8	55.6
87	0.1	0.2	0.5	1.3	3.9	11.3	31.3	55.0
88	0.1	0.2	0.5	1.3	3.8	11.1	31.0	54.0
89	0.1	0.2	0.5	1.3	3.8	10.9	30.6	53.0
90	0.1	0.3	0.5	1.3	3.7	10.7	30.2	52.3
91	0.1	0.3	0.5	1.2	3.6	10.5	29.8	51.5
92	0.1	0.3	0.5	1.2	3.5	10.3	29.3	50.8
93	0.1	0.3	0.5	1.2	3.4	10.1	28.9	50.2
94	0.1	0.3	0.5	1.2	3.3	9.9	28.4	49.5
95	0.1	0.3	0.5	1.2	3.3	9.6	27.9	49.0
96	0.1	0.3	0.5	1.2	3.2	9.4	27.4	48.5
97	0.1	0.3	0.5	1.2	3.1	9.2	26.9	47.8
98	0.1	0.3	0.5	1.2	3.1	9.1	26.4	47.1
99	0.1	0.3	0.6	1.2	3.0	8.9	25.9	46.4
100	0.1	0.3	0.6	1.2	3.0	8.7	25.5	45.6

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

TEMPERATURE, DEG F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.3	0.4	0.5	0.9	1.6	2.5
2	0.2	0.2	0.3	0.4	0.6	0.9	1.7	2.6
3	0.2	0.2	0.3	0.4	0.6	1.0	1.7	2.7
4	0.2	0.2	0.3	0.5	0.7	1.0	1.8	2.8
5	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
6	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
7	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
8	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
9	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3
10	0.2	0.4	0.5	0.7	0.9	1.4	2.4	3.5
11	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
12	0.3	0.4	0.6	0.9	1.1	1.6	2.6	3.7
13	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9
14	0.3	0.5	0.6	0.9	1.2	1.8	2.8	4.0
15	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2
16	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4
17	0.3	0.5	0.8	1.1	1.4	2.1	3.3	4.6
18	0.3	0.5	0.8	1.1	1.5	2.2	3.5	4.8
19	0.3	0.6	0.9	1.2	1.6	2.3	3.6	5.0
20	0.3	0.6	0.9	1.3	1.7	2.5	3.8	5.2
21	0.3	0.6	1.0	1.4	1.8	2.6	4.0	5.4
22	0.3	0.6	1.0	1.4	2.0	2.8	4.2	5.7
23	0.3	0.6	1.1	1.5	2.1	2.9	4.4	5.9
24	0.3	0.6	1.1	1.6	2.2	3.1	4.6	6.2
25	0.2	0.6	1.2	1.7	2.3	3.3	4.9	6.5
26	0.2	0.6	1.2	1.8	2.5	3.4	5.1	6.8
27	0.2	0.6	1.2	1.9	2.6	3.6	5.4	7.1
28	0.2	0.6	1.3	2.0	2.8	3.9	5.7	7.4
29	0.2	0.6	1.3	2.1	3.0	4.1	6.0	7.8
30	0.2	0.6	1.3	2.2	3.1	4.3	6.3	8.1
31	0.2	0.6	1.3	2.3	3.3	4.6	6.6	8.5
32	0.2	0.6	1.3	2.4	3.5	4.8	6.9	8.9
33	0.2	0.5	1.4	2.5	3.7	5.1	7.3	9.3
34	0.2	0.5	1.4	2.6	3.9	5.4	7.7	9.8
35	0.2	0.5	1.4	2.7	4.2	5.7	8.1	10.3
36	0.2	0.5	1.4	2.7	4.4	6.0	8.5	10.8
37	0.2	0.5	1.3	2.8	4.6	6.3	9.0	11.3
38	0.2	0.5	1.3	2.8	4.8	6.7	9.4	11.8
39	0.2	0.5	1.3	2.9	5.0	7.1	9.9	12.4
40	0.2	0.5	1.2	2.9	5.2	7.5	10.4	13.0
41	0.2	0.4	1.2	3.0	5.4	7.9	11.0	13.7
42	0.2	0.4	1.2	3.0	5.6	8.4	11.6	14.3
43	0.1	0.4	1.2	3.0	5.7	8.8	12.2	15.0
44	0.1	0.4	1.1	3.0	5.9	9.2	12.8	15.8
45	0.1	0.4	1.1	3.0	6.0	9.7	13.5	16.6
46	0.1	0.4	1.1	2.9	6.1	10.1	14.2	17.4
47	0.1	0.4	1.1	2.9	6.2	10.6	15.0	18.3
48	0.1	0.4	1.0	2.8	6.3	11.1	15.7	19.2
49	0.1	0.4	1.0	2.8	6.4	11.5	16.6	20.1
50	0.1	0.3	1.0	2.7	6.5	11.9	17.5	21.1
51	0.1	0.3	1.0	2.6	6.6	12.2	18.4	22.2
52	0.1	0.3	0.9	2.6	6.7	12.6	19.3	23.3
53	0.1	0.3	0.9	2.6	6.7	12.9	20.2	24.5
54	0.1	0.3	0.9	2.5	6.7	13.2	21.2	25.7
55	0.1	0.3	0.9	2.5	6.6	13.5	22.1	27.0
56	0.1	0.3	0.9	2.4	6.5	13.7	23.1	28.4
57	0.1	0.3	0.8	2.4	6.4	14.0	24.1	29.8
58	0.1	0.3	0.8	2.3	6.2	14.2	25.0	31.2
59	0.1	0.3	0.8	2.3	6.1	14.4	25.9	32.6
60	0.1	0.3	0.8	2.2	6.0	14.6	26.8	34.0
61	0.1	0.3	0.7	2.2	5.9	14.8	27.6	35.5
62	0.1	0.2	0.7	2.1	5.8	14.9	28.3	37.0
63	0.1	0.2	0.7	2.1	5.7	15.0	29.0	38.5
64	0.1	0.2	0.7	2.0	5.7	15.0	29.7	39.9
65	0.1	0.2	0.7	2.0	5.6	14.9	30.3	41.3
66	0.1	0.2	0.7	1.9	5.5	14.8	30.8	42.5
67	0.1	0.2	0.6	1.9	5.4	14.5	31.4	43.8
68	0.1	0.2	0.6	1.8	5.3	14.2	31.9	44.9
69	0.1	0.2	0.6	1.8	5.2	13.9	32.4	46.0
70	0.1	0.2	0.6	1.7	5.0	13.7	32.8	47.0
71	0.1	0.2	0.6	1.7	4.9	13.5	33.3	48.0
72	0.1	0.2	0.6	1.7	4.8	13.3	33.6	48.8
73	0.1	0.2	0.6	1.6	4.7	13.1	33.9	49.7
74	0.1	0.2	0.5	1.6	4.6	12.9	34.0	50.5
75	0.1	0.2	0.5	1.6	4.5	12.8	34.0	51.2
76	0.1	0.2	0.5	1.5	4.4	12.6	33.9	51.9
77	0.1	0.2	0.5	1.5	4.4	12.4	33.5	52.6
78	0.1	0.2	0.5	1.4	4.3	12.1	32.9	53.2
79	0.1	0.2	0.5	1.4	4.2	11.9	32.3	53.7
80	0.1	0.2	0.5	1.4	4.1	11.7	31.8	53.9
81	0.1	0.2	0.5	1.3	4.0	11.5	31.3	54.0
82	0.1	0.2	0.5	1.3	3.9	11.3	30.8	53.8
83	0.1	0.2	0.5	1.3	3.8	11.0	30.4	53.3
84	0.1	0.2	0.5	1.3	3.7	10.8	30.0	52.5
85	0.1	0.2	0.5	1.2	3.7	10.6	29.7	51.5
86	0.1	0.2	0.5	1.2	3.6	10.4	29.3	50.7
87	0.1	0.2	0.5	1.2	3.5	10.2	28.9	50.0
88	0.1	0.2	0.5	1.2	3.4	10.0	28.5	49.3
89	0.1	0.2	0.5	1.2	3.3	9.8	28.0	48.6
90	0.1	0.3	0.5	1.2	3.2	9.6	27.5	48.0
91	0.1	0.3	0.5	1.2	3.2	9.4	27.1	47.4
92	0.1	0.3	0.5	1.1	3.1	9.2	26.6	46.9
93	0.1	0.3	0.5	1.1	3.0	9.0	26.1	46.3
94	0.1	0.3	0.5	1.1	3.0	8.8	25.6	45.6
95	0.1	0.3	0.5	1.1	2.9	8.7	25.2	45.0
96	0.1	0.3	0.5	1.1	2.9	8.5	24.7	44.2
97	0.1	0.3	0.5	1.1	2.8	8.3	24.2	43.5
98	0.1	0.3	0.5	1.1	2.8	8.1	23.8	42.8
99	0.1	0.3	0.6	1.1	2.8	7.9	23.4	42.1
100	0.1	0.3	0.6	1.1	2.7	7.7	23.0	41.3

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.2	0.3	0.4	0.6	1.0	1.8	2.7
3	0.2	0.3	0.3	0.5	0.7	1.0	1.9	2.8
4	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
5	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.0
6	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2
7	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3
8	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4
9	0.3	0.4	0.5	0.7	1.0	1.5	2.4	3.5
10	0.3	0.4	0.6	0.8	1.0	1.5	2.5	3.7
11	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8
12	0.3	0.5	0.6	0.9	1.2	1.7	2.8	4.0
13	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.1
14	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3
15	0.3	0.5	0.8	1.0	1.4	2.0	3.2	4.5
16	0.3	0.5	0.8	1.1	1.5	2.2	3.4	4.7
17	0.3	0.5	0.9	1.2	1.6	2.3	3.6	4.9
18	0.3	0.6	0.9	1.3	1.7	2.4	3.8	5.1
19	0.3	0.6	1.0	1.3	1.8	2.6	3.9	5.4
20	0.3	0.6	1.0	1.4	1.9	2.7	4.1	5.6
21	0.3	0.6	1.1	1.5	2.0	2.9	4.4	5.8
22	0.2	0.6	1.1	1.6	2.2	3.0	4.6	6.1
23	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.4
24	0.2	0.6	1.2	1.8	2.5	3.4	5.1	6.7
25	0.2	0.6	1.2	1.9	2.6	3.6	5.3	7.0
26	0.2	0.6	1.2	2.0	2.8	3.8	5.6	7.3
27	0.2	0.6	1.3	2.1	2.9	4.0	5.9	7.7
28	0.2	0.6	1.3	2.2	3.1	4.3	6.2	8.1
29	0.2	0.5	1.3	2.3	3.3	4.5	6.6	8.4
30	0.2	0.5	1.3	2.4	3.5	4.8	6.9	8.8
31	0.2	0.5	1.3	2.5	3.7	5.1	7.3	9.2
32	0.2	0.5	1.3	2.5	3.9	5.4	7.6	9.7
33	0.2	0.5	1.3	2.6	4.1	5.7	8.1	10.2
34	0.2	0.5	1.3	2.7	4.3	6.0	8.5	10.7
35	0.2	0.5	1.3	2.7	4.6	6.3	8.9	11.2
36	0.2	0.5	1.2	2.8	4.8	6.7	9.4	11.8
37	0.2	0.5	1.2	2.8	5.0	7.1	9.9	12.4
38	0.2	0.4	1.2	2.9	5.2	7.5	10.4	13.0
39	0.1	0.4	1.2	2.9	5.3	7.9	11.0	13.6
40	0.1	0.4	1.1	2.9	5.5	8.4	11.6	14.3
41	0.1	0.4	1.1	2.9	5.7	8.8	12.2	15.0
42	0.1	0.4	1.1	2.9	5.8	9.2	12.8	15.8
43	0.1	0.4	1.1	2.9	5.9	9.7	13.5	16.6
44	0.1	0.4	1.0	2.8	6.0	10.1	14.3	17.4
45	0.1	0.4	1.0	2.8	6.1	10.6	15.0	18.3
46	0.1	0.3	1.0	2.7	6.2	11.0	15.8	19.2
47	0.1	0.3	1.0	2.6	6.3	11.4	16.7	20.2
48	0.1	0.3	0.9	2.6	6.4	11.8	17.6	21.2
49	0.1	0.3	0.9	2.5	6.5	12.1	18.5	22.3
50	0.1	0.3	0.9	2.5	6.5	12.5	19.4	23.4
51	0.1	0.3	0.9	2.5	6.5	12.8	20.3	24.6
52	0.1	0.3	0.9	2.4	6.5	13.0	21.2	25.9
53	0.1	0.3	0.8	2.4	6.4	13.3	22.2	27.2
54	0.1	0.3	0.8	2.3	6.2	13.5	23.2	28.6
55	0.1	0.3	0.8	2.3	6.1	13.8	24.1	30.0
56	0.1	0.3	0.8	2.2	6.0	14.0	25.0	31.4
57	0.1	0.3	0.7	2.2	5.9	14.2	25.8	32.8
58	0.1	0.2	0.7	2.1	5.8	14.3	26.6	34.2
59	0.1	0.2	0.7	2.1	5.7	14.5	27.4	35.7
60	0.1	0.2	0.7	2.0	5.6	14.6	28.1	37.2
61	0.1	0.2	0.7	2.0	5.5	14.6	28.7	38.6
62	0.1	0.2	0.7	1.9	5.4	14.5	29.3	39.9
63	0.1	0.2	0.6	1.9	5.3	14.3	29.9	41.2
64	0.1	0.2	0.6	1.8	5.2	14.1	30.4	42.3
65	0.1	0.2	0.6	1.8	5.1	13.8	30.9	43.5
66	0.1	0.2	0.6	1.7	5.0	13.5	31.4	44.6
67	0.1	0.2	0.6	1.7	4.9	13.3	31.8	45.6
68	0.1	0.2	0.6	1.7	4.9	13.1	32.2	46.5
69	0.1	0.2	0.6	1.6	4.7	12.9	32.6	47.3
70	0.1	0.2	0.5	1.6	4.6	12.7	32.9	48.1
71	0.1	0.2	0.5	1.5	4.5	12.5	33.0	48.9
72	0.1	0.2	0.5	1.5	4.4	12.4	33.0	49.6
73	0.1	0.2	0.5	1.5	4.3	12.2	32.8	50.3
74	0.1	0.2	0.5	1.4	4.2	11.9	32.4	51.0
75	0.1	0.2	0.5	1.4	4.1	11.7	31.8	51.5
76	0.1	0.2	0.5	1.4	4.0	11.5	31.2	52.0
77	0.1	0.2	0.5	1.3	3.9	11.3	30.7	52.2
78	0.1	0.2	0.5	1.3	3.8	11.1	30.2	52.2
79	0.1	0.2	0.5	1.3	3.7	10.9	29.8	52.0
80	0.1	0.2	0.5	1.2	3.7	10.7	29.4	51.5
81	0.1	0.2	0.5	1.2	3.6	10.4	29.0	50.7
82	0.1	0.2	0.5	1.2	3.5	10.2	28.6	49.7
83	0.1	0.2	0.5	1.2	3.4	10.0	28.3	48.9
84	0.1	0.2	0.5	1.2	3.4	9.8	27.9	48.2
85	0.1	0.2	0.5	1.1	3.3	9.7	27.4	47.5
86	0.1	0.2	0.5	1.1	3.2	9.5	27.0	46.9
87	0.1	0.2	0.5	1.1	3.1	9.2	26.5	46.3
88	0.1	0.2	0.5	1.1	3.0	9.0	26.1	45.7
89	0.1	0.2	0.5	1.1	3.0	8.8	25.6	45.3
90	0.1	0.2	0.5	1.1	2.9	8.6	25.1	44.6
91	0.1	0.2	0.5	1.1	2.9	8.5	24.7	44.0
92	0.1	0.2	0.5	1.1	2.8	8.3	24.2	43.3
93	0.1	0.2	0.5	1.1	2.8	8.2	23.8	42.6
94	0.1	0.2	0.5	1.1	2.7	8.0	23.3	41.9
95	0.1	0.2	0.5	1.1	2.7	7.9	22.9	41.2
96	0.1	0.2	0.5	1.1	2.7	7.8	22.5	40.5
97	0.1	0.2	0.5	1.1	2.6	7.6	22.1	39.8
98	0.1	0.2	0.5	1.1	2.6	7.5	21.6	39.0
99	0.1	0.2	0.6	1.1	2.6	7.4	21.2	38.3
100	0.1	0.2	0.6	1.1	2.5	7.3	20.7	37.6

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
3	0.2	0.3	0.4	0.5	0.7	1.1	2.0	3.0
4	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
5	0.2	0.3	0.4	0.6	0.8	1.3	2.2	3.2
6	0.2	0.3	0.5	0.6	0.9	1.3	2.3	3.3
7	0.2	0.4	0.5	0.7	1.0	1.4	2.4	3.5
8	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
9	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.7
10	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.9
11	0.3	0.5	0.7	0.9	1.2	1.8	2.9	4.1
12	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2
13	0.3	0.5	0.7	1.0	1.4	2.0	3.2	4.4
14	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6
15	0.3	0.5	0.8	1.1	1.6	2.2	3.5	4.8
16	0.3	0.5	0.9	1.2	1.7	2.4	3.7	5.0
17	0.3	0.6	0.9	1.3	1.8	2.5	3.9	5.2
18	0.3	0.6	1.0	1.4	1.9	2.7	4.1	5.5
19	0.2	0.6	1.0	1.5	2.0	2.8	4.3	5.7
20	0.2	0.6	1.1	1.6	2.1	3.0	4.5	6.0
21	0.2	0.6	1.1	1.7	2.3	3.2	4.7	6.3
22	0.2	0.6	1.1	1.8	2.4	3.3	5.0	6.6
23	0.2	0.6	1.2	1.9	2.5	3.5	5.2	6.9
24	0.2	0.6	1.2	2.0	2.7	3.7	5.5	7.2
25	0.2	0.6	1.2	2.1	2.9	4.0	5.8	7.6
26	0.2	0.5	1.2	2.2	3.1	4.2	6.1	7.9
27	0.2	0.5	1.3	2.3	3.2	4.4	6.4	8.3
28	0.2	0.5	1.3	2.4	3.4	4.7	6.8	8.7
29	0.2	0.5	1.3	2.4	3.7	5.0	7.2	9.1
30	0.2	0.5	1.3	2.5	3.9	5.3	7.5	9.6
31	0.2	0.5	1.3	2.6	4.1	5.6	7.9	10.1
32	0.2	0.5	1.3	2.6	4.3	5.9	8.4	10.6
33	0.2	0.5	1.2	2.7	4.5	6.2	8.9	11.1
34	0.2	0.4	1.2	2.7	4.7	6.6	9.3	11.7
35	0.2	0.4	1.2	2.8	4.9	7.0	9.8	12.2
36	0.1	0.4	1.2	2.8	5.1	7.4	10.3	12.9
37	0.1	0.4	1.1	2.8	5.3	7.8	10.9	13.5
38	0.1	0.4	1.1	2.9	5.4	8.3	11.5	14.2
39	0.1	0.4	1.1	2.9	5.6	8.7	12.1	14.9
40	0.1	0.4	1.1	2.8	5.7	9.1	12.7	15.7
41	0.1	0.4	1.0	2.8	5.8	9.6	13.4	16.5
42	0.1	0.4	1.0	2.7	5.9	10.0	14.2	17.3
43	0.1	0.3	1.0	2.7	6.0	10.5	14.9	18.2
44	0.1	0.3	1.0	2.6	6.1	10.9	15.7	19.1
45	0.1	0.3	0.9	2.6	6.2	11.3	16.6	20.1
46	0.1	0.3	0.9	2.5	6.3	11.6	17.5	21.1
47	0.1	0.3	0.9	2.5	6.3	12.0	18.4	22.2
48	0.1	0.3	0.9	2.4	6.3	12.3	19.3	23.4
49	0.1	0.3	0.8	2.4	6.3	12.6	20.2	24.6
50	0.1	0.3	0.8	2.3	6.3	12.8	21.1	25.8

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.3	0.8	2.3	6.1	13.1	22.1	27.2
52	0.1	0.3	0.8	2.2	6.0	13.3	23.0	28.6
53	0.1	0.3	0.8	2.2	5.9	13.5	23.9	29.9
54	0.1	0.3	0.7	2.1	5.8	13.7	24.8	31.3
55	0.1	0.2	0.7	2.1	5.7	13.9	25.6	32.7
56	0.1	0.2	0.7	2.0	5.6	14.0	26.3	34.1
57	0.1	0.2	0.7	2.0	5.5	14.1	27.0	35.6
58	0.1	0.2	0.7	1.9	5.4	14.2	27.7	37.0
59	0.1	0.2	0.6	1.9	5.3	14.1	28.3	38.3
60	0.1	0.2	0.6	1.8	5.2	14.0	28.8	39.6
61	0.1	0.2	0.6	1.8	5.1	13.8	29.4	40.8
62	0.1	0.2	0.6	1.8	5.0	13.5	29.9	41.9
63	0.1	0.2	0.6	1.7	4.9	13.2	30.4	43.0
64	0.1	0.2	0.6	1.7	4.8	13.0	30.8	44.0
65	0.1	0.2	0.6	1.6	4.7	12.8	31.2	44.9
66	0.1	0.2	0.5	1.6	4.6	12.6	31.6	45.7
67	0.1	0.2	0.5	1.6	4.5	12.4	31.9	46.6
68	0.1	0.2	0.5	1.5	4.4	12.2	32.0	47.3
69	0.1	0.2	0.5	1.5	4.3	12.1	32.0	48.1
70	0.1	0.2	0.5	1.4	4.2	11.9	31.9	48.7
71	0.1	0.2	0.5	1.4	4.1	11.7	31.6	49.4
72	0.1	0.2	0.5	1.4	4.0	11.4	31.0	49.9
73	0.1	0.2	0.5	1.3	3.9	11.2	30.4	50.4
74	0.1	0.2	0.5	1.3	3.8	11.0	29.9	50.7
75	0.1	0.2	0.5	1.3	3.7	10.8	29.4	50.7
76	0.1	0.2	0.5	1.2	3.7	10.6	29.0	50.6
77	0.1	0.2	0.5	1.2	3.6	10.4	28.6	50.1
78	0.1	0.2	0.5	1.2	3.5	10.2	28.2	49.4
79	0.1	0.2	0.5	1.2	3.4	10.0	27.8	48.3
80	0.1	0.2	0.5	1.1	3.3	9.8	27.5	47.6
81	0.1	0.2	0.5	1.1	3.3	9.6	27.1	46.9
82	0.1	0.2	0.5	1.1	3.2	9.4	26.7	46.2
83	0.1	0.2	0.5	1.1	3.1	9.2	26.2	45.6
84	0.1	0.2	0.5	1.1	3.0	9.0	25.8	45.0
85	0.1	0.2	0.5	1.1	3.0	8.8	25.3	44.4
86	0.1	0.2	0.5	1.1	2.9	8.6	24.9	43.9
87	0.1	0.2	0.5	1.1	2.8	8.4	24.4	43.4
88	0.1	0.2	0.5	1.1	2.8	8.2	24.0	42.7
89	0.1	0.2	0.5	1.1	2.7	8.1	23.5	42.0
90	0.1	0.3	0.5	1.1	2.7	7.9	23.1	41.4
91	0.1	0.3	0.5	1.1	2.6	7.7	22.6	40.7
92	0.1	0.3	0.5	1.1	2.6	7.6	22.2	40.0
93	0.1	0.3	0.5	1.1	2.6	7.4	21.8	39.3
94	0.1	0.3	0.5	1.1	2.5	7.2	21.4	38.6
95	0.1	0.3	0.5	1.1	2.5	7.0	21.0	37.9
96	0.1	0.3	0.5	1.1	2.5	6.9	20.5	37.2
97	0.1	0.3	0.5	1.1	2.5	6.7	20.1	36.5
98	0.1	0.3	0.5	1.1	2.5	6.6	19.7	35.8
99	0.1	0.3	0.6	1.1	2.5	6.5	19.3	35.2
100	0.1	0.3	0.6	1.1	2.4	6.4	18.9	34.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.3	0.4	0.5	0.7	1.1	1.9	2.9
2	0.2	0.3	0.4	0.5	0.8	1.1	2.0	3.0
3	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
4	0.2	0.3	0.4	0.6	0.9	1.3	[illegible]	[illegible]
[illegible]	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4
	0.2	0.4	0.5	0.7	1.0	1.4	2.4	3.5
,	0.3	0.4	0.5	0.7	1.0	1.5	2.5	3.6
8	0.3	0.4	0.6	0.8	1.1	1.6	2.6	3.8
9	0.3	0.5	0.6	0.8	1.2	1.7	2.8	4.0
T 10	0.3	0.5	0.7	0.9	1.3	1.8	2.9	4.1
E 11	0.3	0.5	0.7	1.0	1.3	1.9	3.1	4.3
M 12	0.3	0.5	0.9	1.0	1.4	2.0	3.2	4.5
P 13	0.3	0.5	0.9	1.1	1.5	2.2	3.4	4.7
E 14	0.3	0.5	0.9	1.2	1.6	2.3	3.6	4.9
R 15	0.3	0.5	0.9	1.2	[illegible]	[illegible]	3.7	5.1
A 16	0.3	0.6	1.0	1.3	1.8	2.6	3.9	5.3
T 17	0.2	0.6	1.0	1.4	1.9	2.7	4.2	5.6
U 18	0.2	0.6	1.0	1.5	2.1	2.9	4.4	5.8
R 19	0.2	0.6	1.1	1.6	2.2	3.1	4.6	6.1
E 20	0.2	0.6	1.1	1.7	2.3	3.2	4.8	6.3
, 21	0.2	0.6	1.1	1.8	2.5	3.4	5.1	6.7
22	0.2	0.6	1.2	1.9	2.6	3.6	5.4	7.0
D 23	0.2	0.6	1.2	2.0	2.8	3.9	5.7	7.4
E 24	0.2	0.5	1.2	2.1	3.0	4.1	6.0	7.7
G 25	0.2	0.5	1.2	2.2	3.2	4.3	6.3	8.1
R 26	0.2	0.5	1.3	2.3	3.4	4.6	6.6	8.5
F 27	0.2	0.5	1.3	2.4	3.6	4.9	7.0	8.9
E 28	0.2	0.5	1.3	2.4	3.8	5.1	7.4	9.4
S 29	0.2	0.5	1.3	2.5	4.0	5.4	7.8	9.9
30	0.2	0.5	1.3	2.6	4.2	5.8	8.2	10.3
F 31	0.2	0.5	1.2	2.6	4.4	6.1	8.6	10.9
A 32	0.2	0.4	1.2	2.7	4.6	6.5	9.1	11.4
H 33	0.2	0.4	1.2	2.7	4.8	6.9	9.6	12.0
R 34	0.1	0.4	1.1	2.7	5.0	7.3	10.1	12.6
E 35	0.1	0.4	1.1	2.8	5.1	7.7	10.7	13.3
N 36	0.1	0.4	1.1	2.9	5.3	8.1	11.3	13.9
H 37	0.1	0.4	1.1	2.8	5.4	8.5	11.9	14.6
E 38	0.1	0.4	1.0	2.8	5.6	9.0	12.5	15.4
I 39	0.1	0.4	1.0	2.7	5.7	9.4	13.2	16.2
T 40	0.1	0.3	1.0	2.7	5.8	9.9	13.9	17.0
41	0.1	0.3	1.0	2.6	5.9	10.3	14.7	17.9
42	0.1	0.3	0.9	2.5	6.0	10.7	15.5	18.8
43	0.1	0.3	0.9	2.5	6.1	11.1	16.3	19.8
44	0.1	0.3	0.9	2.4	6.1	11.4	17.2	20.8
45	0.1	0.3	0.9	2.4	6.2	11.7	18.1	21.9
46	0.1	0.3	0.8	2.4	6.2	12.0	19.0	23.1
47	0.1	0.3	0.8	2.3	6.2	12.3	19.9	24.3
48	0.1	0.3	0.8	2.3	6.1	12.6	20.8	25.5
49	0.1	0.3	0.9	2.2	6.0	12.8	21.8	26.9
50	0.1	0.3	0.8	2.2	5.8	13.0	22.7	28.3

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.7	2.1	5.7	13.2	23.6	29.6
52	0.1	0.2	0.7	2.1	5.5	13.4	24.4	30.9
53	0.1	0.2	0.7	2.0	5.5	13.4	25.2	32.3
54	0.1	0.2	0.7	2.0	5.4	13.7	25.9	33.7
55	0.1	0.2	0.7	1.9	5.3	13.8	26.6	35.2
56	0.1	0.2	0.6	1.9	5.2	13.9	27.2	36.5
57	0.1	0.2	0.6	1.9	5.1	13.8	27.8	37.8
58	0.1	0.2	0.6	1.8	5.0	13.6	28.3	39.0
59	0.1	0.2	0.6	1.7	4.7	13.3	28.8	40.2
T 60	0.1	0.2	0.6	1.7	4.9	13.0	29.3	41.3
E 61	0.1	0.2	0.6	1.6	4.7	12.8	29.8	42.3
M 62	0.1	0.2	0.5	1.6	4.6	12.6	30.2	43.3
P 63	0.1	0.2	0.5	1.6	4.5	12.4	30.6	44.1
E 64	0.1	0.2	0.5	1.5	4.4	12.2	30.9	44.9
R 65	0.1	0.2	0.5	1.5	4.3	12.0	31.1	45.7
A 66	0.1	0.2	0.5	1.5	4.2	11.8	31.2	46.5
T 67	0.1	0.2	0.5	1.4	4.1	11.6	31.2	47.1
U 68	0.1	0.2	0.5	1.4	4.0	11.4	30.9	47.8
R 69	0.1	0.2	0.5	1.3	4.0	11.2	30.5	48.4
E 70	0.1	0.2	0.5	1.3	3.9	11.0	29.9	48.9
, 71	0.1	0.2	0.5	1.3	3.8	10.9	29.3	49.3
72	0.1	0.2	0.5	1.2	3.7	10.5	29.9	49.4
D 73	0.1	0.2	0.5	1.2	3.6	10.4	29.4	49.3
E 74	0.1	0.2	0.5	1.2	3.5	10.2	28.0	49.0
G 75	0.1	0.2	0.5	1.2	3.4	10.0	27.6	48.4
R 76	0.1	0.2	0.5	1.1	3.4	9.8	27.2	47.4
E 77	0.1	0.2	0.5	1.1	3.3	9.6	26.9	46.6
E 78	0.1	0.2	0.5	1.1	3.2	9.4	26.5	45.9
S 79	0.1	0.2	0.5	1.1	3.1	9.2	26.1	45.2
80	0.1	0.2	0.5	1.1	3.0	9.0	25.7	44.6
F 81	0.1	0.2	0.5	1.1	3.0	8.8	25.2	44.0
A 82	0.1	0.2	0.5	1.0	2.9	8.6	24.8	43.4
H 83	0.1	0.2	0.5	1.0	2.9	8.4	24.4	42.9
R 84	0.1	0.2	0.5	1.0	2.9	8.2	23.9	42.4
E 85	0.1	0.2	0.5	1.0	2.7	8.1	23.5	41.7
N 86	0.1	0.2	0.5	1.0	2.7	7.9	23.0	41.1
H 87	0.1	0.2	0.5	1.0	2.6	7.8	22.6	40.4
E 88	0.1	0.2	0.5	1.0	2.6	7.6	22.1	39.8
I 89	0.1	0.2	0.5	1.0	2.5	7.4	21.7	39.1
T 90	0.1	0.1	0.5	1.0	2.5	7.2	21.3	38.4
91	0.1	0.1	0.5	1.0	2.5	7.1	20.9	37.7
92	0.1	0.1	0.5	1.0	2.4	6.9	20.5	37.0
93	0.1	0.1	0.5	1.0	2.4	6.7	20.1	36.3
94	0.1	0.1	0.5	1.1	2.4	6.6	19.6	35.7
95	0.1	0.1	0.5	1.1	2.4	6.5	19.2	35.0
96	0.1	0.1	0.5	1.1	2.4	6.3	18.8	34.4
97	0.1	0.1	0.5	1.1	2.4	6.2	18.5	33.8
98	0.1	0.1	0.5	1.1	2.4	6.1	18.2	33.2
99	0.1	0.1	0.6	1.1	2.3	6.0	17.8	32.5
100	0.1	0.1	0.6	1.1	2.3	5.9	17.4	31.9

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

		BAND CENTER FREQUENCY, HZ							
		63	125	250	500	1000	2000	4000	8000
	1	0.2	0.3	0.4	0.5	0.8	1.2	2.0	3.0
	2	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.1
	3	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3
	4	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4
	5	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5
	6	0.2	0.4	0.6	0.8	1.1	1.5	2.5	3.7
	7	0.3	0.4	0.6	0.8	1.1	1.6	2.7	3.8
	8	0.3	0.5	0.6	0.9	1.2	1.7	2.8	4.0
	9	0.3	0.5	0.7	0.9	1.3	1.8	3.0	4.2
T	10	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.3
E	11	0.3	0.5	0.8	1.1	1.4	2.1	3.3	4.5
M	12	0.3	0.5	0.8	1.1	1.5	2.2	3.4	4.7
P	13	0.3	0.5	0.9	1.2	1.6	2.3	3.6	5.0
E	14	0.3	0.5	0.9	1.3	1.7	2.5	3.8	5.2
R	15	0.2	0.6	1.0	1.4	1.9	2.6	4.0	5.4
A	16	0.2	0.6	1.0	1.5	2.0	2.8	4.2	5.7
T	17	0.2	0.6	1.1	1.6	2.1	2.9	4.4	5.9
U	18	0.2	0.6	1.1	1.7	2.2	3.1	4.7	6.2
R	19	0.2	0.6	1.1	1.8	2.4	3.3	4.9	6.5
E	20	0.2	0.6	1.1	1.9	2.5	3.5	5.2	6.8
,	21	0.2	0.6	1.2	2.0	2.7	3.7	5.5	7.2
	22	0.2	0.5	1.2	2.1	2.9	3.9	5.8	7.5
D	23	0.2	0.5	1.2	2.1	3.0	4.2	6.1	7.9
E	24	0.2	0.5	1.2	2.2	3.2	4.4	6.4	8.3
G	25	0.2	0.5	1.2	2.3	3.4	4.7	6.8	8.7
R	26	0.2	0.5	1.2	2.4	3.6	5.0	7.1	9.1
E	27	0.2	0.5	1.2	2.4	3.8	5.3	7.5	9.6
E	28	0.2	0.5	1.2	2.5	4.1	5.6	7.9	10.1
S	29	0.2	0.4	1.2	2.6	4.3	5.9	8.4	10.6
	30	0.2	0.4	1.2	2.6	4.5	6.3	8.8	11.1
F	31	0.1	0.4	1.1	2.6	4.7	6.7	9.3	11.7
A	32	0.1	0.4	1.1	2.7	4.9	7.0	9.8	12.3
H	33	0.1	0.4	1.1	2.7	5.0	7.5	10.4	12.9
R	34	0.1	0.4	1.1	2.7	5.2	7.9	11.0	13.6
E	35	0.1	0.4	1.0	2.7	5.3	8.3	11.6	14.3
N	36	0.1	0.4	1.0	2.7	5.4	8.7	12.2	15.0
H	37	0.1	0.4	1.0	2.7	5.6	9.2	12.9	15.8
E	38	0.1	0.3	1.0	2.6	5.7	9.6	13.6	16.6
I	39	0.1	0.3	0.9	2.5	5.8	10.0	14.3	17.5
T	40	0.1	0.3	0.9	2.5	5.8	10.4	15.1	18.4
	41	0.1	0.3	0.9	2.4	5.9	10.8	16.0	19.4
	42	0.1	0.3	0.9	2.4	6.0	11.2	16.9	20.4
	43	0.1	0.3	0.8	2.3	6.0	11.5	17.7	21.5
	44	0.1	0.3	0.8	2.3	6.1	11.8	18.6	22.6
	45	0.1	0.3	0.8	2.3	6.0	12.1	19.5	23.8
	46	0.1	0.3	0.8	2.2	6.0	12.3	20.4	25.0
	47	0.1	0.3	0.8	2.2	5.8	12.5	21.4	26.4
	48	0.1	0.3	0.7	2.1	5.7	12.8	22.3	27.7
	49	0.1	0.2	0.7	2.1	5.6	13.0	23.1	29.0
	50	0.1	0.2	0.7	2.0	5.5	13.1	23.9	30.4

		BAND CENTER FREQUENCY, HZ							
		63	125	250	500	1000	2000	4000	8000
	51	0.1	0.2	0.7	2.0	5.4	13.3	24.7	31.7
	52	0.1	0.2	0.7	1.9	5.3	13.4	25.4	33.2
	53	0.1	0.2	0.6	1.9	5.2	13.5	26.1	34.6
	54	0.1	0.2	0.6	1.8	5.1	13.5	26.7	35.9
	55	0.1	0.2	0.6	1.8	5.0	13.4	27.3	37.2
	56	0.1	0.2	0.6	1.7	4.9	13.2	27.8	38.4
	57	0.1	0.2	0.6	1.7	4.8	13.0	28.3	39.5
	58	0.1	0.2	0.6	1.6	4.7	12.7	28.7	40.6
	59	0.1	0.2	0.5	1.6	4.6	12.5	29.2	41.6
T	60	0.1	0.2	0.5	1.6	4.5	12.2	29.6	42.5
E	61	0.1	0.2	0.5	1.5	4.4	12.0	29.9	43.3
M	62	0.1	0.2	0.5	1.5	4.3	11.8	30.2	44.1
P	63	0.1	0.2	0.5	1.4	4.2	11.7	30.4	44.9
E	64	0.1	0.2	0.5	1.4	4.1	11.5	30.5	45.6
R	65	0.1	0.2	0.5	1.4	4.0	11.3	30.4	46.2
A	66	0.1	0.2	0.5	1.3	3.9	11.1	30.1	46.8
T	67	0.1	0.2	0.5	1.3	3.8	10.9	29.6	47.4
U	68	0.1	0.2	0.5	1.3	3.7	10.7	28.9	47.9
R	69	0.1	0.2	0.5	1.2	3.5	10.5	28.5	48.1
E	70	0.1	0.2	0.4	1.2	3.4	10.3	28.0	48.2
,	71	0.1	0.2	0.4	1.2	3.5	10.1	27.6	48.1
	72	0.1	0.2	0.4	1.2	3.4	9.9	27.2	47.6
D	73	0.1	0.2	0.4	1.1	3.3	9.7	26.8	46.9
E	74	0.1	0.2	0.4	1.1	3.3	9.5	26.4	45.9
G	75	0.1	0.2	0.4	1.1	3.2	9.3	26.1	45.2
R	76	0.1	0.2	0.4	1.1	3.1	9.1	25.7	44.5
E	77	0.1	0.2	0.4	1.1	3.0	8.9	25.3	43.8
E	78	0.1	0.2	0.4	1.0	2.9	8.7	24.9	43.2
S	79	0.1	0.2	0.4	1.0	2.9	8.5	24.4	42.6
	80	0.1	0.2	0.5	1.0	2.8	8.3	24.0	42.1
F	81	0.1	0.2	0.5	1.0	2.7	8.1	23.5	41.6
A	82	0.1	0.2	0.5	1.0	2.7	7.9	23.1	41.0
H	83	0.1	0.2	0.5	1.0	2.6	7.8	22.7	40.4
R	84	0.1	0.2	0.5	1.0	2.6	7.6	22.2	39.8
E	85	0.1	0.2	0.5	1.0	2.5	7.5	21.8	39.1
N	86	0.1	0.2	0.5	1.0	2.5	7.3	21.4	38.4
H	87	0.1	0.2	0.5	1.0	2.5	7.1	21.0	37.8
E	88	0.1	0.2	0.5	1.0	2.4	7.0	20.6	37.1
I	89	0.1	0.2	0.5	1.0	2.4	6.8	20.2	36.4
T	90	0.1	0.3	0.5	1.0	2.4	6.6	19.8	35.7
	91	0.1	0.3	0.5	1.0	2.3	6.5	19.3	35.1
	92	0.1	0.3	0.5	1.0	2.3	6.4	18.9	34.4
	93	0.1	0.3	0.5	1.0	2.3	6.2	18.5	33.8
	94	0.1	0.3	0.5	1.1	2.3	6.1	18.2	33.2
	95	0.1	0.3	0.5	1.1	2.3	6.0	17.8	32.6
	96	0.1	0.3	0.5	1.1	2.3	5.9	17.5	32.0
	97	0.1	0.3	0.5	1.1	2.3	5.8	17.2	31.3
	98	0.1	0.3	0.5	1.1	2.3	5.7	16.8	30.6
	99	0.1	0.3	0.6	1.1	2.3	5.6	16.4	30.0
	100	0.1	0.3	0.6	1.1	2.3	5.6	16.0	29.4

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.3	0.4	0.6	0.8	1.2	2.1	3.2
2	0.2	0.3	0.5	0.6	0.9	1.3	2.2	3.3
3	0.2	0.4	0.5	0.7	0.9	1.4	2.3	3.4
4	0.2	0.4	0.5	0.7	1.0	1.5	2.4	3.5
5	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.7
6	0.3	0.4	0.6	0.8	1.1	1.7	2.7	3.8
7	0.3	0.5	0.6	0.9	1.2	1.8	2.8	4.0
8	0.3	0.5	0.7	0.9	1.3	1.9	3.0	4.2
9	0.3	0.5	0.7	1.0	1.4	2.0	3.1	4.4
10	0.3	0.5	0.8	1.1	1.5	2.1	3.3	4.6
11	0.3	0.5	0.8	1.1	1.6	2.2	3.5	4.8
12	0.3	0.5	0.9	1.2	1.7	2.4	3.7	5.0
13	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2
14	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5
15	0.2	0.6	1.0	1.5	2.0	2.8	4.3	5.7
16	0.2	0.6	1.1	1.6	2.1	3.0	4.5	6.0
17	0.2	0.6	1.1	1.7	2.3	3.2	4.7	6.3
18	0.2	0.6	1.1	1.8	2.4	3.4	5.0	6.6
19	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9
20	0.2	0.5	1.2	2.0	2.7	3.8	5.6	7.3
21	0.2	0.5	1.2	2.1	2.9	4.0	5.9	7.6
22	0.2	0.5	1.2	2.2	3.1	4.3	6.2	8.0
23	0.2	0.5	1.2	2.2	3.3	4.5	6.5	8.4
24	0.2	0.5	1.2	2.3	3.5	4.8	6.9	8.8
25	0.2	0.5	1.2	2.4	3.7	5.1	7.3	9.3
26	0.2	0.5	1.2	2.4	3.9	5.4	7.7	9.7
27	0.2	0.4	1.2	2.5	4.1	5.7	8.1	10.2
28	0.2	0.4	1.2	2.5	4.3	6.0	8.5	10.8
29	0.1	0.4	1.1	2.6	4.5	6.4	9.0	11.3
30	0.1	0.4	1.1	2.6	4.7	6.8	9.5	11.9
31	0.1	0.4	1.1	2.7	4.9	7.2	10.0	12.5
32	0.1	0.4	1.1	2.7	5.0	7.6	10.6	13.2
33	0.1	0.4	1.0	2.7	5.2	8.0	11.2	13.8
34	0.1	0.4	1.0	2.7	5.3	8.5	11.8	14.6
35	0.1	0.3	1.0	2.6	5.4	8.9	12.5	15.3
36	0.1	0.3	1.0	2.6	5.5	9.3	13.2	16.1
37	0.1	0.3	0.9	2.5	5.6	9.8	13.9	17.0
38	0.1	0.3	0.9	2.5	5.7	10.2	14.7	17.9
39	0.1	0.3	0.9	2.4	5.8	10.5	15.5	18.8
40	0.1	0.3	0.9	2.4	5.9	10.9	16.4	19.8
41	0.1	0.3	0.8	2.3	5.9	11.2	17.3	20.9
42	0.1	0.3	0.8	2.3	5.9	11.5	18.1	22.0
43	0.1	0.3	0.8	2.2	5.9	11.8	19.0	23.2
44	0.1	0.1	0.8	2.2	5.9	12.0	19.9	24.4
45	0.1	0.3	0.7	2.1	5.7	12.3	20.8	25.7
46	0.1	0.2	0.7	2.1	5.6	12.5	21.8	27.1
47	0.1	0.2	0.7	2.0	5.5	12.7	22.6	28.3
48	0.1	0.2	0.7	2.0	5.4	12.9	23.4	29.7
49	0.1	0.2	0.7	1.9	5.3	13.0	24.1	31.0
50	0.1	0.2	0.6	1.9	5.2	13.2	24.8	32.4
51	0.1	0.2	0.6	1.8	5.1	13.2	25.5	33.9
52	0.1	0.2	0.6	1.8	5.0	13.2	26.1	35.1
53	0.1	0.2	0.6	1.7	4.9	13.1	26.7	36.4
54	0.1	0.2	0.6	1.7	4.8	13.0	27.2	37.6
55	0.1	0.2	0.6	1.7	4.7	12.7	27.7	38.7
56	0.1	0.2	0.5	1.6	4.6	12.4	28.1	39.7
57	0.1	0.2	0.5	1.6	4.5	12.2	28.6	40.7
58	0.1	0.2	0.5	1.5	4.4	12.0	29.0	41.6
59	0.1	0.2	0.5	1.5	4.3	11.8	29.3	42.4
60	0.1	0.2	0.5	1.5	4.2	11.6	29.6	43.2
61	0.1	0.2	0.5	1.4	4.1	11.4	29.8	43.9
62	0.1	0.2	0.5	1.4	4.0	11.2	29.8	44.6
63	0.1	0.2	0.5	1.3	3.9	11.0	29.7	45.3
64	0.1	0.2	0.5	1.3	3.8	10.8	29.4	45.9
65	0.1	0.2	0.4	1.3	3.7	10.6	28.9	46.4
66	0.1	0.2	0.4	1.2	3.6	10.4	28.2	46.9
67	0.1	0.2	0.4	1.2	3.5	10.2	27.8	47.1
68	0.1	0.2	0.4	1.2	3.5	10.0	27.3	47.1
69	0.1	0.2	0.4	1.1	3.4	9.8	26.9	46.9
70	0.1	0.2	0.4	1.1	3.3	9.6	26.5	46.5
71	0.1	0.2	0.4	1.1	3.2	9.4	26.1	45.7
72	0.1	0.2	0.4	1.1	3.2	9.2	25.8	44.7
73	0.1	0.2	0.4	1.1	3.1	9.0	25.4	44.0
74	0.1	0.2	0.4	1.0	3.0	8.8	25.0	43.3
75	0.1	0.2	0.4	1.0	2.9	8.7	24.6	42.7
76	0.1	0.2	0.4	1.0	2.8	8.5	24.2	42.1
77	0.1	0.2	0.4	1.0	2.8	8.3	23.8	41.5
78	0.1	0.2	0.4	1.0	2.7	8.1	23.3	41.0
79	0.1	0.2	0.4	1.0	2.7	7.9	22.9	40.5
80	0.1	0.2	0.5	1.0	2.6	7.7	22.4	39.9
81	0.1	0.2	0.5	1.0	2.6	7.6	22.0	39.3
82	0.1	0.2	0.5	1.0	2.5	7.4	21.6	38.7
83	0.1	0.2	0.5	1.0	2.5	7.2	21.2	38.0
84	0.1	0.2	0.5	1.0	2.4	7.1	20.8	37.3
85	0.1	0.2	0.5	1.0	2.4	6.9	20.4	36.7
86	0.1	0.2	0.5	1.0	2.4	6.7	20.0	36.0
87	0.1	0.2	0.5	1.0	2.3	6.6	19.6	35.4
88	0.1	0.2	0.5	1.0	2.3	6.4	19.2	34.7
89	0.1	0.2	0.5	1.0	2.3	6.3	18.7	34.0
90	0.1	0.3	0.5	1.0	2.3	6.2	18.3	33.4
91	0.1	0.3	0.5	1.0	2.3	6.0	18.0	32.8
92	0.1	0.3	0.5	1.0	2.3	5.9	17.6	32.2
93	0.1	0.3	0.5	1.0	2.2	5.8	17.3	31.7
94	0.1	0.3	0.5	1.1	2.2	5.7	17.0	31.0
95	0.1	0.3	0.5	1.1	2.2	5.6	16.6	30.4
96	0.1	0.3	0.5	1.1	2.2	5.5	16.2	29.7
97	0.1	0.3	0.5	1.1	2.2	5.5	15.9	29.1
98	0.1	0.3	0.5	1.1	2.2	5.4	15.5	28.5
99	0.1	0.3	0.6	1.1	2.2	5.3	15.1	28.0
100	0.1	0.3	0.6	1.1	2.3	5.3	14.8	27.5

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

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

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

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.5	1.6	4.6	12.4	26.5	36.8
52	0.1	0.2	0.5	1.6	4.5	12.0	26.9	37.9
53	0.1	0.2	0.5	1.5	4.4	11.9	27.3	38.8
54	0.1	0.2	0.5	1.5	4.3	11.6	27.7	39.8
55	0.1	0.2	0.5	1.4	4.2	11.4	28.1	40.6
56	0.1	0.2	0.5	1.4	4.1	11.2	28.4	41.3
57	0.1	0.2	0.5	1.4	4.0	11.0	28.6	42.1
58	0.1	0.2	0.5	1.3	3.9	10.8	28.7	42.7
59	0.1	0.2	0.4	1.3	3.8	10.7	28.6	43.4
60	0.1	0.2	0.4	1.3	3.7	10.5	28.3	44.0
61	0.1	0.2	0.4	1.2	3.6	10.3	27.9	44.5
62	0.1	0.2	0.4	1.2	3.5	10.1	27.2	44.9
63	0.1	0.2	0.4	1.2	3.4	9.9	26.7	45.2
64	0.1	0.2	0.4	1.1	3.3	9.6	26.3	45.3
65	0.1	0.2	0.4	1.1	3.3	9.4	25.9	45.1
66	0.1	0.2	0.4	1.1	3.2	9.2	25.5	44.7
67	0.1	0.2	0.4	1.1	3.1	9.0	25.1	43.9
68	0.1	0.2	0.4	1.0	3.0	8.8	24.7	43.0
69	0.1	0.2	0.4	1.0	3.0	8.6	24.4	42.3
70	0.1	0.2	0.4	1.0	2.9	8.5	24.0	41.6
71	0.1	0.2	0.4	1.0	2.8	8.3	23.6	41.0
72	0.1	0.2	0.4	1.0	2.7	8.1	23.2	40.4
73	0.1	0.2	0.4	1.0	2.7	7.9	22.8	39.8
74	0.1	0.2	0.4	1.0	2.6	7.7	22.3	39.3
75	0.1	0.2	0.4	0.9	2.5	7.5	21.9	38.6
76	0.1	0.2	0.4	0.9	2.5	7.4	21.5	38.2
77	0.1	0.2	0.4	0.9	2.4	7.2	21.1	37.6
78	0.1	0.2	0.4	0.9	2.4	7.1	20.6	37.0
79	0.1	0.2	0.4	0.9	2.4	6.9	20.2	36.3
80	0.1	0.2	0.5	0.9	2.3	6.8	19.8	35.7
81	0.1	0.2	0.5	0.9	2.3	6.6	19.5	35.1
82	0.1	0.2	0.5	0.9	2.3	6.4	19.1	34.4
83	0.1	0.2	0.5	0.9	2.2	6.3	18.7	33.8
84	0.1	0.2	0.5	0.9	2.2	6.1	18.3	33.1
85	0.1	0.2	0.5	1.0	2.2	6.0	17.9	32.5
86	0.1	0.2	0.5	1.0	2.2	5.9	17.5	31.9
87	0.1	0.2	0.5	1.0	2.2	5.8	17.1	31.3
88	0.1	0.2	0.5	1.0	2.2	5.6	16.8	30.7
89	0.1	0.2	0.5	1.0	2.1	5.5	16.5	30.2
90	0.1	0.3	0.5	1.0	2.1	5.4	16.2	29.5
91	0.1	0.3	0.5	1.0	2.1	5.4	15.8	28.9
92	0.1	0.3	0.5	1.0	2.1	5.3	15.5	28.3
93	0.1	0.3	0.5	1.0	2.1	5.2	15.1	27.7
94	0.1	0.3	0.5	1.1	2.1	5.1	14.8	27.2
95	0.1	0.3	0.5	1.1	2.1	5.1	14.4	26.7
96	0.1	0.3	0.5	1.1	2.2	5.0	14.1	26.2
97	0.1	0.3	0.5	1.1	2.2	5.0	13.8	25.7
98	0.1	0.3	0.5	1.1	2.2	5.0	13.6	25.1
99	0.1	0.3	0.6	1.1	2.2	5.0	13.3	24.6
100	0.1	0.3	0.6	1.1	2.3	5.0	13.1	24.0

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

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.5	1.5	4.3	11.7	26.7	37.8
52	0.1	0.2	0.5	1.5	4.2	11.5	27.1	38.8
53	0.1	0.2	0.5	1.4	4.1	11.3	27.5	39.6
54	0.1	0.2	0.5	1.4	4.0	11.1	27.8	40.3
55	0.1	0.2	0.5	1.4	3.9	10.9	28.1	41.1
56	0.1	0.2	0.5	1.3	3.8	10.7	28.2	41.8
57	0.1	0.2	0.4	1.3	3.7	10.5	28.1	42.4
58	0.1	0.2	0.4	1.2	3.7	10.3	27.9	43.0
59	0.1	0.2	0.4	1.2	3.6	10.1	27.5	43.5
60	0.1	0.2	0.4	1.2	3.5	9.9	26.9	44.0
61	0.1	0.2	0.4	1.1	3.4	9.7	26.4	44.4
62	0.1	0.2	0.4	1.1	3.3	9.5	25.9	44.5
63	0.1	0.2	0.4	1.1	3.2	9.3	25.5	44.4
64	0.1	0.2	0.4	1.1	3.1	9.1	25.1	44.0
65	0.1	0.2	0.4	1.0	3.1	8.9	24.7	43.3
66	0.1	0.2	0.4	1.0	3.0	8.7	24.4	42.4
67	0.1	0.2	0.4	1.0	2.9	8.5	24.1	41.7
68	0.1	0.2	0.4	1.0	2.8	8.3	23.7	41.0
69	0.1	0.2	0.4	1.0	2.8	8.2	23.3	40.3
70	0.1	0.2	0.4	1.0	2.7	8.0	22.8	39.7
71	0.1	0.2	0.4	0.9	2.6	7.8	22.4	39.2
72	0.1	0.2	0.4	0.9	2.6	7.6	22.0	38.6
DEGREES 73	0.1	0.2	0.4	0.9	2.5	7.4	21.6	38.2
74	0.1	0.2	0.4	0.9	2.5	7.3	21.1	37.6
75	0.1	0.2	0.4	0.9	2.4	7.1	20.7	37.0
76	0.1	0.2	0.4	0.9	2.4	7.0	20.3	36.4
77	0.1	0.2	0.4	0.9	2.3	6.8	19.9	35.7
78	0.1	0.2	0.4	0.9	2.3	6.7	19.5	35.1
79	0.1	0.2	0.4	0.9	2.2	6.5	19.1	34.5
80	0.1	0.2	0.5	0.9	2.2	6.3	18.8	33.8
FAHR 81	0.1	0.2	0.5	0.9	2.2	6.2	18.4	33.2
82	0.1	0.2	0.5	0.9	2.1	6.0	18.0	32.5
83	0.1	0.2	0.5	0.9	2.1	5.9	17.6	31.9
84	0.1	0.2	0.5	0.9	2.1	5.8	17.2	31.3
85	0.1	0.2	0.5	1.0	2.1	5.7	16.8	30.7
86	0.1	0.2	0.5	1.0	2.1	5.5	16.5	30.2
87	0.1	0.2	0.5	1.0	2.1	5.4	16.2	29.6
88	0.1	0.2	0.5	1.0	2.1	5.3	15.9	29.0
89	0.1	0.2	0.5	1.0	2.1	5.3	15.5	28.4
90	0.1	0.3	0.5	1.0	2.1	5.2	15.2	27.8
91	0.1	0.3	0.5	1.0	2.1	5.1	14.8	27.2
92	0.1	0.3	0.5	1.0	2.1	5.1	14.5	26.7
93	0.1	0.3	0.5	1.0	2.1	5.0	14.1	26.2
94	0.1	0.3	0.5	1.1	2.1	4.9	13.8	25.7
95	0.1	0.3	0.5	1.1	2.2	4.9	13.6	25.2
96	0.1	0.3	0.5	1.1	2.2	4.9	13.3	24.7
97	0.1	0.3	0.5	1.1	2.2	4.9	13.1	24.1
98	0.1	0.3	0.5	1.1	2.2	4.9	12.8	23.6
99	0.1	0.3	0.6	1.1	2.2	4.8	12.6	23.0
100	0.1	0.3	0.6	1.1	2.3	4.8	12.4	22.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
1	0.2	0.4	0.6	0.8	1.1	1.5	2.5	3.7
2	0.2	0.4	0.6	0.8	1.1	1.6	2.7	3.8
3	0.2	0.4	0.6	0.9	1.2	1.7	2.8	4.0
4	0.2	0.5	0.7	0.9	1.3	1.9	3.0	4.2
5	0.2	0.5	0.7	1.0	1.4	2.0	3.1	4.4
6	0.2	0.5	0.8	1.1	1.5	2.1	3.3	4.6
7	0.2	0.5	0.8	1.1	1.6	2.2	3.5	4.8
8	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0
9	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2
10	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5
11	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7
12	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0
13	0.2	0.5	1.1	1.7	2.3	3.2	4.8	6.3
14	0.2	0.5	1.1	1.8	2.5	3.4	5.1	6.6
15	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0
16	0.2	0.5	1.1	2.0	2.8	3.8	5.6	7.3
17	0.2	0.5	1.1	2.1	3.0	4.1	6.0	7.7
18	0.2	0.5	1.2	2.1	3.2	4.3	6.3	8.1
19	0.2	0.4	1.2	2.2	3.4	4.6	6.7	8.5
20	0.2	0.4	1.2	2.3	3.6	4.9	7.0	9.0
21	0.2	0.4	1.1	2.3	3.8	5.2	7.4	9.5
22	0.1	0.4	1.1	2.4	4.0	5.5	7.9	10.0
23	0.1	0.4	1.1	2.4	4.2	5.9	8.3	10.5
24	0.1	0.4	1.0	2.5	4.4	6.3	8.8	11.0
25	0.1	0.4	1.0	2.5	4.5	6.6	9.3	11.6
26	0.1	0.4	1.0	2.5	4.7	7.1	9.8	12.2
27	0.1	0.4	1.0	2.5	4.8	7.5	10.4	12.9
28	0.1	0.3	1.0	2.5	5.0	7.9	11.0	13.6
29	0.1	0.3	0.9	2.5	5.1	8.3	11.6	14.3
30	0.1	0.3	0.9	2.4	5.2	8.7	12.3	15.1
31	0.1	0.3	0.9	2.4	5.3	9.1	13.0	15.9
32	0.1	0.3	0.9	2.3	5.4	9.5	13.8	16.9
33	0.1	0.3	0.8	2.3	5.4	9.9	14.6	17.7
34	0.1	0.3	0.8	2.2	5.5	10.2	15.4	18.7
35	0.1	0.3	0.8	2.2	5.6	10.5	16.3	19.7
36	0.1	0.3	0.8	2.1	5.6	10.8	17.1	20.8
37	0.1	0.3	0.7	2.1	5.5	11.1	17.9	21.9
38	0.1	0.2	0.7	2.0	5.5	11.3	18.8	23.2
39	0.1	0.2	0.7	2.0	5.3	11.5	19.7	24.4
40	0.1	0.2	0.7	1.9	5.2	11.7	20.6	25.7
41	0.1	0.2	0.7	1.9	5.1	11.9	21.4	27.0
42	0.1	0.2	0.6	1.8	5.0	12.1	22.1	28.3
43	0.1	0.2	0.6	1.8	4.9	12.2	22.9	29.6
44	0.1	0.2	0.6	1.7	4.8	12.3	23.5	31.0
45	0.1	0.2	0.6	1.7	4.7	12.3	24.1	32.3
46	0.1	0.2	0.6	1.6	4.6	12.3	24.7	33.5
47	0.1	0.2	0.5	1.6	4.5	12.2	25.2	34.6
48	0.1	0.2	0.5	1.6	4.4	11.9	25.6	35.7
49	0.1	0.2	0.5	1.5	4.3	11.6	26.1	36.8
50	0.1	0.2	0.5	1.5	4.2	11.4	26.5	37.7

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.5	1.4	4.1	11.2	26.9	38.6
52	0.1	0.2	0.5	1.4	4.0	11.0	27.2	39.4
53	0.1	0.2	0.5	1.4	3.9	10.8	27.5	40.1
54	0.1	0.2	0.4	1.3	3.8	10.6	27.7	40.8
55	0.1	0.2	0.4	1.3	3.7	10.4	27.7	41.5
56	0.1	0.2	0.4	1.2	3.6	10.3	27.6	42.1
57	0.1	0.2	0.4	1.2	3.5	10.1	27.3	42.6
58	0.1	0.2	0.4	1.2	3.5	9.9	26.7	43.1
59	0.1	0.2	0.4	1.1	3.4	9.6	26.1	43.5
60	0.1	0.2	0.4	1.1	3.3	9.4	25.7	43.7
61	0.1	0.2	0.4	1.1	3.2	9.2	25.2	43.7
62	0.1	0.2	0.4	1.1	3.1	9.0	24.8	43.4
63	0.1	0.2	0.4	1.0	3.0	8.8	24.4	42.9
64	0.1	0.2	0.4	1.0	3.0	8.6	24.1	42.0
65	0.1	0.2	0.4	1.0	2.9	8.4	23.7	41.2
66	0.1	0.2	0.4	1.0	2.8	8.3	23.4	40.5
67	0.1	0.2	0.4	1.0	2.7	8.1	23.0	39.8
68	0.1	0.2	0.4	0.9	2.7	7.9	22.6	39.2
69	0.1	0.2	0.4	0.9	2.6	7.7	22.2	38.6
70	0.1	0.2	0.4	0.9	2.5	7.5	21.7	38.1
71	0.1	0.2	0.4	0.9	2.5	7.3	21.3	37.6
72	0.1	0.2	0.4	0.9	2.4	7.2	20.9	37.1
73	0.1	0.2	0.4	0.9	2.4	7.0	20.5	36.5
74	0.1	0.2	0.4	0.9	2.3	6.9	20.1	35.9
75	0.1	0.2	0.4	0.9	2.3	6.7	19.6	35.3
76	0.1	0.2	0.4	0.9	2.2	6.6	19.3	34.6
77	0.1	0.2	0.4	0.9	2.2	6.4	18.9	34.0
78	0.1	0.2	0.4	0.9	2.2	6.2	18.5	33.4
79	0.1	0.2	0.4	0.9	2.1	6.1	18.2	32.7
80	0.1	0.2	0.5	0.9	2.1	5.9	17.7	32.1
81	0.1	0.2	0.5	0.9	2.1	5.8	17.3	31.5
82	0.1	0.2	0.5	0.9	2.1	5.7	16.9	30.9
83	0.1	0.2	0.5	0.9	2.1	5.6	16.6	30.3
84	0.1	0.2	0.5	0.9	2.1	5.5	16.3	29.7
85	0.1	0.2	0.5	1.0	2.1	5.4	16.0	29.2
86	0.1	0.2	0.5	1.0	2.0	5.3	15.6	28.6
87	0.1	0.2	0.5	1.0	2.0	5.2	15.3	28.0
88	0.1	0.2	0.5	1.0	2.0	5.1	15.0	27.3
89	0.1	0.2	0.5	1.0	2.0	5.0	14.6	26.8
90	0.1	0.3	0.5	1.0	2.0	5.0	14.3	26.3
91	0.1	0.3	0.5	1.0	2.1	4.9	13.9	25.8
92	0.1	0.3	0.5	1.0	2.1	4.8	13.6	25.4
93	0.1	0.3	0.5	1.0	2.1	4.8	13.4	24.8
94	0.1	0.3	0.5	1.1	2.1	4.8	13.1	24.3
95	0.1	0.3	0.5	1.1	2.2	4.8	12.9	23.8
96	0.1	0.3	0.5	1.1	2.2	4.8	12.6	23.2
97	0.1	0.3	0.5	1.1	2.2	4.7	12.4	22.7
98	0.1	0.3	0.5	1.1	2.2	4.7	12.2	22.2
99	0.1	0.3	0.6	1.1	2.2	4.7	12.0	21.8
100	0.1	0.3	0.6	1.1	2.3	4.7	11.9	21.4

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.4	0.6	0.8	1.1	1.6	2.6	3.8
2	0.2	0.4	0.6	0.9	1.2	1.7	2.8	4.0
3	0.2	0.5	0.7	0.9	1.3	1.8	2.9	4.1
4	0.2	0.5	0.7	1.0	1.4	2.0	3.1	4.3
5	0.2	0.5	0.8	1.1	1.4	2.1	3.3	4.5
6	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.7
7	0.2	0.5	0.9	1.2	1.7	2.3	3.6	5.0
8	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2
9	0.2	0.5	1.0	1.4	1.9	2.6	4.0	5.4
10	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7
11	0.2	0.5	1.0	1.6	2.1	3.0	4.5	6.0
12	0.2	0.5	1.0	1.7	2.3	3.2	4.8	6.3
13	0.2	0.5	1.1	1.8	2.4	3.4	5.0	6.6
14	0.2	0.5	1.1	1.9	2.6	3.6	5.3	7.0
15	0.2	0.5	1.1	2.0	2.8	3.8	5.6	7.3
16	0.2	0.5	1.1	2.0	3.0	4.1	5.9	7.7
17	0.2	0.5	1.1	2.1	3.2	4.3	6.3	8.1
18	0.2	0.4	1.1	2.2	3.4	4.6	6.6	8.5
19	0.2	0.4	1.1	2.3	3.6	4.9	7.0	9.0
20	0.1	0.4	1.1	2.3	3.8	5.2	7.4	9.4
21	0.1	0.4	1.1	2.3	4.0	5.5	7.8	9.9
22	0.1	0.4	1.1	2.4	4.2	5.9	8.3	10.5
23	0.1	0.4	1.0	2.4	4.3	6.2	8.8	11.0
24	0.1	0.4	1.0	2.5	4.5	6.6	9.3	11.6
25	0.1	0.4	1.0	2.5	4.7	7.1	9.8	12.2
26	0.1	0.3	1.0	2.5	4.8	7.4	10.4	12.9
27	0.1	0.3	0.9	2.5	4.9	7.8	11.0	13.6
28	0.1	0.3	0.9	2.5	5.0	8.3	11.6	14.3
29	0.1	0.3	0.9	2.4	5.1	8.7	12.3	15.1
30	0.1	0.3	0.9	2.3	5.2	9.1	13.0	15.9
31	0.1	0.3	0.8	2.3	5.3	9.5	13.8	16.8
32	0.1	0.3	0.8	2.2	5.4	9.8	14.6	17.7
33	0.1	0.3	0.8	2.2	5.4	10.2	15.4	18.7
34	0.1	0.3	0.8	2.1	5.5	10.5	16.3	19.8
35	0.1	0.3	0.7	2.1	5.5	10.8	17.1	20.9
36	0.1	0.2	0.7	2.0	5.4	11.0	18.0	22.0
37	0.1	0.2	0.7	2.0	5.3	11.2	18.8	23.2
38	0.1	0.2	0.7	1.9	5.2	11.4	19.9	24.5
39	0.1	0.2	0.7	1.9	5.1	11.6	20.6	25.8
40	0.1	0.2	0.6	1.8	5.0	11.8	21.4	27.0
41	0.1	0.2	0.6	1.8	4.9	11.9	22.1	28.3
42	0.1	0.2	0.6	1.7	4.8	12.1	22.8	29.7
43	0.1	0.2	0.6	1.7	4.7	12.2	23.4	31.0
44	0.1	0.2	0.6	1.6	4.6	12.2	24.0	32.3
45	0.1	0.2	0.5	1.6	4.5	12.1	24.5	33.5
46	0.1	0.2	0.5	1.6	4.4	11.9	25.0	34.6
47	0.1	0.2	0.5	1.5	4.3	11.6	25.5	35.6
48	0.1	0.2	0.5	1.5	4.2	11.3	25.9	36.6
49	0.1	0.2	0.5	1.4	4.1	11.1	26.3	37.5
50	0.1	0.2	0.5	1.4	4.0	10.9	26.6	38.4
51	0.1	0.2	0.5	1.3	3.9	10.7	26.9	39.1
52	0.1	0.2	0.4	1.3	3.8	10.5	27.2	39.8
53	0.1	0.2	0.4	1.3	3.7	10.4	27.3	40.5
54	0.1	0.2	0.4	1.2	3.6	10.2	27.2	41.1
55	0.1	0.2	0.4	1.2	3.5	10.0	27.0	41.7
56	0.1	0.2	0.4	1.2	3.5	9.8	26.6	42.2
57	0.1	0.2	0.4	1.1	3.4	9.6	26.0	42.7
58	0.1	0.2	0.4	1.1	3.3	9.4	25.5	42.9
59	0.1	0.2	0.4	1.1	3.2	9.2	25.0	43.0
60	0.1	0.2	0.4	1.0	3.1	9.0	24.6	42.9
61	0.1	0.2	0.4	1.0	3.0	8.8	24.2	42.5
62	0.1	0.2	0.4	1.0	3.0	8.6	23.8	41.8
63	0.1	0.2	0.4	1.0	2.9	8.4	23.5	40.8
64	0.1	0.2	0.4	1.0	2.9	8.2	23.2	40.1
65	0.1	0.2	0.4	0.9	2.7	8.0	22.8	39.5
66	0.1	0.2	0.4	0.9	2.7	7.9	22.4	38.8
67	0.1	0.2	0.4	0.9	2.6	7.7	22.0	38.2
68	0.1	0.2	0.4	0.9	2.5	7.5	21.5	37.7
69	0.1	0.2	0.4	0.9	2.5	7.3	21.1	37.2
70	0.1	0.2	0.4	0.9	2.4	7.1	20.7	36.7
71	0.1	0.2	0.4	0.9	2.4	7.0	20.3	36.1
72	0.1	0.2	0.4	0.9	2.3	6.8	19.9	35.5
73	0.1	0.2	0.4	0.9	2.3	6.7	19.5	34.9
74	0.1	0.2	0.4	0.9	2.2	6.5	19.1	34.3
75	0.1	0.2	0.4	0.9	2.2	6.4	18.7	33.6
76	0.1	0.2	0.4	0.9	2.2	6.2	18.3	33.0
77	0.1	0.2	0.4	0.9	2.1	6.0	18.0	32.4
78	0.1	0.2	0.4	0.9	2.1	5.9	17.6	31.8
79	0.1	0.2	0.4	0.9	2.1	5.7	17.2	31.1
80	0.1	0.2	0.5	0.9	2.0	5.6	16.8	30.5
81	0.1	0.2	0.5	0.9	2.0	5.5	16.4	29.9
82	0.1	0.2	0.5	0.9	2.0	5.4	16.1	29.4
83	0.1	0.2	0.5	0.9	2.0	5.3	15.8	28.9
84	0.1	0.2	0.5	0.9	2.0	5.2	15.5	28.3
85	0.1	0.2	0.5	1.0	2.0	5.1	15.1	27.7
86	0.1	0.2	0.5	1.0	2.0	5.0	14.8	27.0
87	0.1	0.2	0.5	1.0	2.0	5.0	14.5	26.5
88	0.1	0.2	0.5	1.0	2.0	4.9	14.1	25.9
89	0.1	0.2	0.5	1.0	2.0	4.8	13.8	25.5
90	0.1	0.3	0.5	1.0	2.0	4.8	13.5	25.0
91	0.1	0.3	0.5	1.0	2.1	4.7	13.2	24.5
92	0.1	0.3	0.5	1.0	2.1	4.7	12.9	24.0
93	0.1	0.3	0.5	1.0	2.1	4.7	12.7	23.5
94	0.1	0.3	0.5	1.1	2.1	4.7	12.5	23.0
95	0.1	0.3	0.5	1.1	2.2	4.7	12.2	22.4
96	0.1	0.3	0.5	1.1	2.2	4.6	12.0	21.9
97	0.1	0.3	0.5	1.1	2.2	4.6	11.9	21.5
98	0.1	0.3	0.5	1.1	2.2	4.6	11.7	21.1
99	0.1	0.3	0.6	1.1	2.2	4.6	11.5	20.7
100	0.1	0.3	0.6	1.1	2.3	4.6	11.4	20.3

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.4	0.6	0.8	1.2	1.7	2.8	3.9
2	0.2	0.5	0.7	0.9	1.3	1.8	2.9	4.1
3	0.2	0.5	0.7	1.0	1.3	1.9	3.1	4.3
4	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.5
5	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.7
6	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9
7	0.2	0.5	0.9	1.3	1.7	2.5	3.8	5.1
8	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4
9	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.7
10	0.2	0.5	1.0	1.6	2.1	3.0	4.5	5.9
11	0.2	0.5	1.0	1.7	2.3	3.2	4.7	6.2
12	0.2	0.5	1.1	1.8	2.4	3.4	5.0	6.6
13	0.2	0.5	1.1	1.9	2.6	3.6	5.3	6.9
14	0.2	0.5	1.1	1.9	2.8	3.8	5.6	7.3
15	0.2	0.5	1.1	2.0	2.9	4.0	5.9	7.6
16	0.2	0.4	1.1	2.1	3.1	4.3	6.2	8.0
17	0.2	0.4	1.1	2.2	3.3	4.6	6.6	8.5
18	0.2	0.4	1.1	2.2	3.5	4.9	7.0	8.9
19	0.1	0.4	1.1	2.3	3.7	5.2	7.4	9.4
20	0.1	0.4	1.1	2.3	3.9	5.5	7.8	9.9
21	0.1	0.4	1.0	2.4	4.1	5.8	8.2	10.4
22	0.1	0.4	1.0	2.4	4.3	6.2	8.7	11.0
23	0.1	0.4	1.0	2.4	4.5	6.6	9.2	11.6
24	0.1	0.4	1.0	2.5	4.6	7.0	9.8	12.2
25	0.1	0.3	0.9	2.5	4.8	7.4	10.4	12.8
26	0.1	0.3	0.9	2.5	4.9	7.8	11.0	13.5
27	0.1	0.3	0.9	2.4	5.0	8.2	11.6	14.3
28	0.1	0.3	0.9	2.3	5.1	8.7	12.3	15.1
29	0.1	0.3	0.8	2.3	5.2	9.1	13.0	15.9
30	0.1	0.3	0.8	2.2	5.3	9.4	13.8	16.8
31	0.1	0.3	0.8	2.2	5.3	9.8	14.6	17.7
32	0.1	0.3	0.8	2.1	5.4	10.1	15.4	18.7
33	0.1	0.3	0.7	2.1	5.4	10.4	16.2	19.7
34	0.1	0.3	0.7	2.0	5.4	10.7	17.1	20.8
35	0.1	0.2	0.7	2.0	5.3	10.9	17.9	22.0
36	0.1	0.2	0.7	1.9	5.2	11.1	18.8	23.2
37	0.1	0.2	0.7	1.9	5.1	11.3	19.7	24.5
38	0.1	0.2	0.6	1.8	5.0	11.5	20.5	25.8
39	0.1	0.2	0.6	1.8	4.9	11.7	21.3	27.0
40	0.1	0.2	0.6	1.7	4.8	11.8	22.0	28.3
41	0.1	0.2	0.6	1.7	4.7	11.9	22.7	29.7
42	0.1	0.2	0.6	1.6	4.6	12.0	23.3	31.0
43	0.1	0.2	0.6	1.6	4.5	12.0	23.8	32.2
44	0.1	0.2	0.5	1.6	4.4	11.9	24.3	33.4
45	0.1	0.2	0.5	1.5	4.3	11.7	24.8	34.5
46	0.1	0.2	0.5	1.5	4.2	11.3	25.2	35.5
47	0.1	0.2	0.5	1.4	4.1	11.1	25.7	36.4
48	0.1	0.2	0.5	1.4	4.0	10.9	26.0	37.3
49	0.1	0.2	0.5	1.3	3.9	10.7	26.4	38.1
50	0.1	0.2	0.4	1.3	3.8	10.5	26.6	38.8
51	0.1	0.2	0.4	1.3	3.7	10.3	26.8	39.5
52	0.1	0.2	0.4	1.2	3.6	10.2	26.9	40.2
53	0.1	0.2	0.4	1.2	3.5	10.0	26.9	40.7
54	0.1	0.2	0.4	1.2	3.4	9.8	26.5	41.3
55	0.1	0.2	0.4	1.1	3.4	9.6	26.0	41.8
56	0.1	0.2	0.4	1.1	3.3	9.4	25.4	42.2
57	0.1	0.2	0.4	1.1	3.2	9.2	24.9	42.4
58	0.1	0.2	0.4	1.0	3.1	9.0	24.5	42.3
59	0.1	0.2	0.4	1.0	3.0	8.8	24.0	42.1
60	0.1	0.2	0.4	1.0	3.0	8.6	23.7	41.5
61	0.1	0.2	0.4	1.0	2.9	8.4	23.3	40.7
62	0.1	0.2	0.4	1.0	2.8	8.2	23.0	39.9
63	0.1	0.2	0.4	0.9	2.7	8.0	22.6	39.2
64	0.1	0.2	0.4	0.9	2.7	7.8	22.2	38.5
65	0.1	0.2	0.4	0.9	2.6	7.6	21.8	37.9
66	0.1	0.2	0.4	0.9	2.5	7.5	21.4	37.4
67	0.1	0.2	0.4	0.9	2.4	7.3	21.0	36.9
68	0.1	0.2	0.4	0.9	2.4	7.1	20.6	36.4
69	0.1	0.2	0.4	0.9	2.3	6.9	20.2	35.8
70	0.1	0.2	0.4	0.9	2.3	6.8	19.7	35.2
71	0.1	0.2	0.4	0.9	2.2	6.6	19.3	34.6
72	0.1	0.2	0.4	0.9	2.2	6.5	18.9	34.0
73	0.1	0.2	0.4	0.9	2.2	6.3	18.5	33.4
74	0.1	0.2	0.4	0.9	2.1	6.2	18.2	32.8
75	0.1	0.2	0.4	0.9	2.1	6.0	17.8	32.1
76	0.1	0.2	0.4	0.9	2.1	5.8	17.5	31.5
77	0.1	0.2	0.4	0.9	2.0	5.7	17.1	30.9
78	0.1	0.2	0.4	0.9	2.0	5.6	16.7	30.3
79	0.1	0.2	0.4	0.9	2.0	5.5	16.3	29.7
80	0.1	0.2	0.5	0.9	2.0	5.4	15.9	29.1
81	0.1	0.2	0.5	0.9	2.0	5.2	15.6	28.6
82	0.1	0.2	0.5	0.9	2.0	5.1	15.3	28.1
83	0.1	0.2	0.5	0.9	2.0	5.1	15.0	27.5
84	0.1	0.2	0.5	0.9	2.0	5.0	14.7	26.9
85	0.1	0.2	0.5	1.0	2.0	4.9	14.3	26.2
86	0.1	0.2	0.5	1.0	2.0	4.8	14.0	25.7
87	0.1	0.2	0.5	1.0	2.0	4.8	13.7	25.2
88	0.1	0.2	0.5	1.0	2.0	4.7	13.4	24.8
89	0.1	0.2	0.5	1.0	2.0	4.7	13.1	24.3
90	0.1	0.3	0.5	1.0	2.0	4.6	12.8	23.8
91	0.1	0.3	0.5	1.0	2.1	4.6	12.6	23.3
92	0.1	0.3	0.5	1.0	2.1	4.6	12.3	22.8
93	0.1	0.3	0.5	1.0	2.1	4.6	12.1	22.2
94	0.1	0.3	0.5	1.1	2.1	4.6	11.9	21.7
95	0.1	0.3	0.5	1.1	2.2	4.6	11.7	21.3
96	0.1	0.3	0.5	1.1	2.2	4.5	11.5	20.9
97	0.1	0.3	0.5	1.1	2.2	4.6	11.4	20.5
98	0.1	0.3	0.5	1.1	2.2	4.6	11.2	20.1
99	0.1	0.3	0.6	1.1	2.2	4.6	11.1	19.7
100	0.1	0.3	0.6	1.1	2.3	4.6	11.0	19.4

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.4	0.7	0.9	1.2	1.8	2.9	4.0
2	0.2	0.5	0.7	1.0	1.3	1.9	3.0	4.2
3	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.4
4	0.2	0.5	0.8	1.1	1.5	2.1	3.4	4.6
5	0.2	0.5	0.9	1.2	1.6	2.3	3.5	4.9
6	0.2	0.5	0.9	1.3	1.7	2.4	3.7	5.1
7	0.2	0.5	0.9	1.4	1.8	2.6	4.0	5.3
8	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.6
9	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.9
10	0.2	0.5	1.0	1.6	2.2	3.1	4.7	6.2
11	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.5
12	0.2	0.5	1.1	1.8	2.6	3.5	5.2	6.8
13	0.2	0.5	1.1	1.9	2.7	3.8	5.5	7.2
14	0.2	0.5	1.1	2.0	2.9	4.0	5.8	7.6
15	0.2	0.4	1.1	2.1	3.1	4.3	6.2	8.0
16	0.2	0.4	1.1	2.1	3.3	4.5	6.5	8.4
17	0.2	0.4	1.1	2.2	3.5	4.8	6.9	8.8
18	0.1	0.4	1.1	2.3	3.7	5.1	7.3	9.3
19	0.1	0.4	1.1	2.3	3.9	5.4	7.7	9.8
20	0.1	0.4	1.0	2.3	4.1	5.8	8.2	10.3
21	0.1	0.4	1.0	2.4	4.3	6.2	8.7	10.9
22	0.1	0.4	1.0	2.4	4.4	6.6	9.2	11.5
23	0.1	0.3	1.0	2.4	4.6	7.0	9.7	12.1
24	0.1	0.3	0.9	2.4	4.7	7.4	10.3	12.8
25	0.1	0.3	0.9	2.4	4.8	7.8	10.9	13.5
26	0.1	0.3	0.9	2.4	4.9	8.2	11.5	14.2
27	0.1	0.3	0.9	2.3	5.0	8.6	12.2	15.0
28	0.1	0.3	0.8	2.2	5.1	9.0	12.9	15.8
29	0.1	0.3	0.8	2.2	5.2	9.4	13.7	16.7
30	0.1	0.3	0.8	2.1	5.3	9.7	14.5	17.6
31	0.1	0.3	0.8	2.1	5.3	10.0	15.4	18.6
32	0.1	0.3	0.7	2.0	5.3	10.3	16.2	19.7
33	0.1	0.2	0.7	2.0	5.3	10.6	17.0	20.8
34	0.1	0.2	0.7	2.0	5.3	10.8	17.9	22.0
35	0.1	0.2	0.7	1.9	5.2	11.0	18.7	23.2
36	0.1	0.2	0.7	1.9	5.0	11.2	19.6	24.5
37	0.1	0.2	0.6	1.8	4.9	11.4	20.4	25.7
38	0.1	0.2	0.6	1.8	4.8	11.6	21.1	26.9
39	0.1	0.2	0.6	1.7	4.7	11.7	21.8	28.2
40	0.1	0.2	0.6	1.7	4.6	11.8	22.5	29.6
41	0.1	0.2	0.6	1.6	4.5	11.8	23.1	30.9
42	0.1	0.2	0.5	1.6	4.4	11.8	23.6	32.1
43	0.1	0.2	0.5	1.5	4.3	11.7	24.1	33.2
44	0.1	0.2	0.5	1.5	4.2	11.4	24.6	34.3
45	0.1	0.2	0.5	1.4	4.1	11.1	25.0	35.3
46	0.1	0.2	0.5	1.4	4.0	10.9	25.4	36.2
47	0.1	0.2	0.5	1.4	3.9	10.7	25.8	37.0
48	0.1	0.2	0.4	1.3	3.8	10.5	26.1	37.8
49	0.1	0.2	0.4	1.3	3.7	10.3	26.4	38.5
50	0.1	0.2	0.4	1.3	3.6	10.1	26.5	39.2
51	0.1	0.2	0.4	1.2	3.5	10.0	26.5	39.8
52	0.1	0.2	0.4	1.2	3.5	9.8	26.3	40.4
53	0.1	0.2	0.4	1.1	3.4	9.6	26.0	40.9
54	0.1	0.2	0.4	1.1	3.3	9.4	25.4	41.3
55	0.1	0.2	0.4	1.1	3.2	9.2	24.9	41.7
56	0.1	0.2	0.4	1.1	3.1	9.0	24.4	41.8
57	0.1	0.2	0.4	1.0	3.0	8.8	24.0	41.7
58	0.1	0.2	0.4	1.0	2.9	8.6	23.6	41.3
59	0.1	0.2	0.4	1.0	2.9	8.4	23.2	40.7
60	0.1	0.2	0.4	1.0	2.8	8.2	22.8	39.7
61	0.1	0.2	0.4	0.9	2.7	8.0	22.5	39.0
62	0.1	0.2	0.4	0.9	2.7	7.8	22.1	38.4
63	0.1	0.2	0.4	0.9	2.6	7.6	21.7	37.7
64	0.1	0.2	0.4	0.9	2.5	7.5	21.3	37.1
65	0.1	0.2	0.4	0.9	2.4	7.3	20.9	36.6
66	0.1	0.2	0.4	0.9	2.4	7.1	20.5	36.1
67	0.1	0.2	0.4	0.9	2.3	6.9	20.1	35.6
68	0.1	0.2	0.4	0.9	2.3	6.7	19.7	35.0
69	0.1	0.2	0.4	0.9	2.2	6.6	19.3	34.4
70	0.1	0.2	0.4	0.9	2.2	6.5	18.9	33.8
71	0.1	0.2	0.4	0.9	2.1	6.3	18.5	33.2
72	0.1	0.2	0.4	0.9	2.1	6.2	18.1	32.6
73	0.1	0.2	0.4	0.9	2.1	6.0	17.7	32.0
74	0.1	0.2	0.4	0.9	2.0	5.8	17.4	31.3
75	0.1	0.2	0.4	0.9	2.0	5.7	17.0	30.7
76	0.1	0.2	0.4	0.9	2.0	5.6	16.6	30.1
77	0.1	0.2	0.4	0.9	2.0	5.4	16.2	29.5
78	0.1	0.2	0.4	0.9	2.0	5.3	15.8	28.9
79	0.1	0.2	0.4	0.9	2.0	5.2	15.5	28.4
80	0.1	0.2	0.5	0.9	2.0	5.1	15.2	27.9
81	0.1	0.2	0.5	0.9	1.9	5.0	14.9	27.3
82	0.1	0.2	0.5	0.9	1.9	4.9	14.6	26.7
83	0.1	0.2	0.5	0.9	1.9	4.9	14.3	26.1
84	0.1	0.2	0.5	0.9	1.9	4.8	13.9	25.5
85	0.1	0.2	0.5	1.0	1.9	4.7	13.6	25.0
86	0.1	0.2	0.5	1.0	2.0	4.7	13.3	24.6
87	0.1	0.2	0.5	1.0	2.0	4.6	13.0	24.1
88	0.1	0.2	0.5	1.0	2.0	4.6	12.7	23.6
89	0.1	0.2	0.5	1.0	2.0	4.6	12.5	23.1
90	0.1	0.3	0.5	1.0	2.0	4.6	12.2	22.6
91	0.1	0.3	0.5	1.0	2.1	4.5	12.0	22.1
92	0.1	0.3	0.5	1.0	2.1	4.5	11.8	21.6
93	0.1	0.3	0.5	1.0	2.1	4.5	11.6	21.1
94	0.1	0.3	0.5	1.1	2.1	4.5	11.4	20.7
95	0.1	0.3	0.5	1.1	2.2	4.5	11.3	20.3
96	0.1	0.3	0.5	1.1	2.2	4.5	11.1	19.9
97	0.1	0.3	0.5	1.1	2.2	4.5	11.0	19.6
98	0.1	0.3	0.5	1.1	2.2	4.5	10.9	19.2
99	0.1	0.3	0.6	1.1	2.2	4.6	10.7	18.9
100	0.1	0.3	0.6	1.1	2.3	4.6	10.7	18.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.7	0.9	1.3	1.9	3.0	4.2
2	0.2	0.5	0.7	1.0	1.4	2.0	3.1	4.4
3	0.2	0.5	0.8	1.1	1.5	2.1	3.3	4.6
4	0.2	0.5	0.8	1.2	1.6	2.2	3.5	4.8
5	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0
6	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.3
7	0.2	0.5	1.0	1.4	1.9	2.7	4.1	5.5
8	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.8
9	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1
10	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.4
11	0.2	0.5	1.1	1.8	2.5	3.5	5.1	6.8
12	0.2	0.5	1.1	1.9	2.7	3.7	5.4	7.1
13	0.2	0.4	1.1	2.0	2.9	3.9	5.8	7.5
14	0.2	0.4	1.1	2.1	3.1	4.2	6.1	7.9
15	0.2	0.4	1.1	2.1	3.3	4.5	6.4	8.3
16	0.1	0.4	1.1	2.2	3.5	4.8	6.8	8.7
17	0.1	0.4	1.1	2.2	3.7	5.1	7.2	9.2
18	0.1	0.4	1.0	2.3	3.9	5.4	7.6	9.7
19	0.1	0.4	1.0	2.3	4.1	5.7	8.1	10.2
20	0.1	0.4	1.0	2.4	4.2	6.1	8.6	10.8
21	0.1	0.4	1.0	2.4	4.4	6.5	9.1	11.4
22	0.1	0.3	0.9	2.4	4.5	6.9	9.6	12.0
23	0.1	0.3	0.9	2.4	4.7	7.3	10.2	12.7
24	0.1	0.3	0.9	2.4	4.8	7.7	10.8	13.4
25	0.1	0.3	0.9	2.4	4.9	8.1	11.4	14.1
26	0.1	0.3	0.8	2.3	5.0	8.5	12.1	14.9
27	0.1	0.3	0.8	2.2	5.1	8.9	12.9	15.7
28	0.1	0.3	0.8	2.2	5.2	9.3	13.6	16.6
29	0.1	0.3	0.8	2.1	5.2	9.6	14.4	17.5
30	0.1	0.3	0.7	2.1	5.3	9.9	15.3	18.5
31	0.1	0.3	0.7	2.0	5.3	10.2	16.1	19.6
32	0.1	0.2	0.7	2.0	5.3	10.5	16.9	20.7
33	0.1	0.2	0.7	1.9	5.2	10.7	17.7	21.8
34	0.1	0.2	0.7	1.9	5.1	10.9	18.6	23.1
35	0.1	0.2	0.6	1.8	4.9	11.1	19.5	24.3
36	0.1	0.2	0.6	1.8	4.8	11.3	20.3	25.6
37	0.1	0.2	0.6	1.7	4.7	11.4	21.0	26.8
38	0.1	0.2	0.6	1.7	4.6	11.6	21.7	28.1
39	0.1	0.2	0.6	1.6	4.5	11.7	22.3	29.4
40	0.1	0.2	0.5	1.6	4.4	11.7	22.9	30.7
41	0.1	0.2	0.5	1.5	4.3	11.6	23.4	31.9
42	0.1	0.2	0.5	1.5	4.3	11.5	23.9	33.0
43	0.1	0.2	0.5	1.5	4.2	11.2	24.4	34.0
44	0.1	0.2	0.5	1.4	4.1	10.9	24.8	35.0
45	0.1	0.2	0.5	1.4	4.0	10.7	25.2	35.9
46	0.1	0.2	0.5	1.3	3.9	10.5	25.5	36.7
47	0.1	0.2	0.4	1.3	3.8	10.3	25.8	37.5
48	0.1	0.2	0.4	1.3	3.7	10.1	26.1	38.2
49	0.1	0.2	0.4	1.2	3.6	9.9	26.2	38.8
50	0.1	0.2	0.4	1.2	3.5	9.8	26.1	39.4
51	0.1	0.2	0.4	1.2	3.4	9.6	25.9	40.0
52	0.1	0.2	0.4	1.1	3.3	9.4	25.5	40.5
53	0.1	0.2	0.4	1.1	3.2	9.2	24.9	40.9
54	0.1	0.2	0.4	1.1	3.1	9.0	24.4	41.2
55	0.1	0.2	0.4	1.0	3.0	8.8	23.9	41.2
56	0.1	0.2	0.4	1.0	3.0	8.6	23.5	41.1
57	0.1	0.2	0.4	1.0	2.9	8.4	23.1	40.6
58	0.1	0.2	0.4	1.0	2.9	8.2	22.8	39.9
59	0.1	0.2	0.4	0.9	2.7	8.0	22.4	39.0
60	0.1	0.2	0.4	0.9	2.7	7.8	22.1	38.3
61	0.1	0.2	0.4	0.9	2.6	7.6	21.7	37.6
62	0.1	0.2	0.4	0.9	2.5	7.5	21.3	37.0
63	0.1	0.2	0.4	0.9	2.4	7.3	20.9	36.4
64	0.1	0.2	0.4	0.9	2.4	7.1	20.5	35.9
65	0.1	0.2	0.4	0.9	2.3	6.9	20.1	35.4
66	0.1	0.2	0.4	0.9	2.3	6.7	19.6	34.9
67	0.1	0.2	0.4	0.9	2.2	6.6	19.2	34.3
68	0.1	0.2	0.4	0.8	2.2	6.5	18.8	33.7
69	0.1	0.2	0.4	0.8	2.1	6.3	18.4	33.1
70	0.1	0.2	0.4	0.8	2.1	6.2	18.0	32.5
71	0.1	0.2	0.4	0.8	2.1	6.0	17.7	31.9
72	0.1	0.2	0.4	0.8	2.0	5.8	17.3	31.2
73	0.1	0.2	0.4	0.8	2.0	5.7	17.0	30.6
74	0.1	0.2	0.4	0.8	2.0	5.5	16.6	30.0
75	0.1	0.2	0.4	0.9	2.0	5.4	16.2	29.4
76	0.1	0.2	0.4	0.9	1.9	5.3	15.8	28.8
77	0.1	0.2	0.4	0.9	1.9	5.2	15.5	28.3
78	0.1	0.2	0.4	0.9	1.9	5.1	15.2	27.7
79	0.1	0.2	0.4	0.9	1.9	5.0	14.9	27.2
80	0.1	0.2	0.5	0.9	1.9	4.9	14.6	26.6
81	0.1	0.2	0.5	0.9	1.9	4.8	14.2	26.0
82	0.1	0.2	0.5	0.9	1.9	4.7	13.9	25.4
83	0.1	0.2	0.5	0.9	1.9	4.7	13.6	24.9
84	0.1	0.2	0.5	0.9	1.9	4.6	13.2	24.4
85	0.1	0.2	0.5	1.0	1.9	4.6	12.9	24.0
86	0.1	0.2	0.5	1.0	2.0	4.5	12.7	23.5
87	0.1	0.2	0.5	1.0	2.0	4.5	12.4	23.0
88	0.1	0.2	0.5	1.0	2.0	4.5	12.2	22.5
89	0.1	0.2	0.5	1.0	2.0	4.5	11.9	22.0
90	0.1	0.3	0.5	1.0	2.0	4.4	11.7	21.5
91	0.1	0.3	0.5	1.0	2.1	4.4	11.5	21.0
92	0.1	0.3	0.5	1.0	2.1	4.4	11.3	20.6
93	0.1	0.3	0.5	1.0	2.1	4.4	11.2	20.2
94	0.1	0.3	0.5	1.1	2.1	4.4	11.0	19.8
95	0.1	0.3	0.5	1.1	2.2	4.4	10.9	19.4
96	0.1	0.3	0.5	1.1	2.2	4.4	10.8	19.1
97	0.1	0.3	0.5	1.1	2.2	4.5	10.6	18.8
98	0.1	0.3	0.5	1.1	2.2	4.5	10.5	18.5
99	0.1	0.3	0.6	1.1	2.2	4.6	10.5	18.2
100	0.1	0.3	0.6	1.1	2.3	4.6	10.5	18.0

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.7	1.0	1.4	1.9	3.1	4.3
2	0.2	0.5	0.8	1.1	1.4	2.1	3.3	4.5
3	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.7
4	0.2	0.5	0.9	1.2	1.7	2.3	3.6	5.0
5	0.2	0.5	0.9	1.2	1.8	2.5	3.8	5.2
6	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5
7	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7
8	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0
9	0.2	0.5	1.0	1.7	2.3	3.2	4.8	6.3
10	0.2	0.5	1.0	1.8	2.5	3.4	5.1	6.7
11	0.2	0.5	1.1	1.9	2.6	3.6	5.4	7.0
12	0.2	0.4	1.1	2.0	2.8	3.9	5.7	7.4
13	0.2	0.4	1.1	2.0	3.0	4.1	6.0	7.8
14	0.2	0.4	1.1	2.1	3.2	4.4	6.4	8.2
15	0.1	0.4	1.1	2.2	3.4	4.7	6.7	8.6
16	0.1	0.4	1.1	2.2	3.6	5.0	7.1	9.1
17	0.1	0.4	1.0	2.3	3.8	5.3	7.5	9.6
18	0.1	0.4	1.0	2.3	4.0	5.7	8.0	10.1
19	0.1	0.4	1.0	2.3	4.2	6.0	8.5	10.7
20	0.1	0.4	1.0	2.4	4.3	6.4	9.0	11.2
21	0.1	0.3	0.9	2.4	4.5	6.8	9.5	11.9
22	0.1	0.3	0.9	2.4	4.6	7.2	10.1	12.5
23	0.1	0.3	0.9	2.4	4.7	7.6	10.7	13.2
24	0.1	0.3	0.9	2.3	4.8	8.0	11.3	14.0
25	0.1	0.3	0.8	2.3	4.9	8.4	12.0	14.7
26	0.1	0.3	0.8	2.2	5.0	9.8	12.7	15.6
27	0.1	0.3	0.8	2.1	5.1	9.2	13.5	16.4
28	0.1	0.3	0.8	2.1	5.2	9.5	14.3	17.4
29	0.1	0.3	0.7	2.0	5.2	9.8	15.1	18.3
30	0.1	0.2	0.7	2.0	5.2	10.1	15.9	19.4
31	0.1	0.2	0.7	2.0	5.2	10.4	16.7	20.5
32	0.1	0.2	0.7	1.9	5.1	10.6	17.6	21.7
33	0.1	0.2	0.7	1.9	5.0	10.8	18.5	22.9
34	0.1	0.2	0.6	1.8	4.9	11.0	19.3	24.2
35	0.1	0.2	0.6	1.8	4.8	11.2	20.1	25.4
36	0.1	0.2	0.6	1.7	4.6	11.3	20.8	26.6
37	0.1	0.2	0.6	1.7	4.5	11.5	21.5	27.9
38	0.1	0.2	0.6	1.6	4.5	11.5	22.1	29.2
39	0.1	0.2	0.5	1.6	4.4	11.6	22.7	30.5
40	0.1	0.2	0.5	1.5	4.3	11.5	23.2	31.6
41	0.1	0.2	0.5	1.5	4.2	11.3	23.7	32.7
42	0.1	0.2	0.5	1.4	4.1	11.1	24.1	33.8
43	0.1	0.2	0.5	1.4	4.0	10.8	24.5	34.7
44	0.1	0.2	0.5	1.3	3.9	10.6	24.9	35.6
45	0.1	0.2	0.4	1.3	3.8	10.3	25.3	36.4
46	0.1	0.2	0.4	1.3	3.7	10.1	25.5	37.1
47	0.1	0.2	0.4	1.2	3.6	10.0	25.8	37.8
48	0.1	0.2	0.4	1.2	3.5	9.8	25.8	38.5
49	0.1	0.2	0.4	1.2	3.4	9.6	25.8	39.0
50	0.1	0.2	0.4	1.1	3.3	9.4	25.5	39.6

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.4	1.1	3.2	9.2	25.1	40.1
52	0.1	0.2	0.4	1.1	3.2	9.0	24.4	40.5
53	0.1	0.2	0.4	1.0	3.1	8.8	24.0	40.7
54	0.1	0.2	0.4	1.0	3.0	8.6	23.5	40.7
55	0.1	0.2	0.4	1.0	2.9	8.4	23.1	40.5
56	0.1	0.2	0.4	1.0	2.8	8.2	22.7	39.9
57	0.1	0.2	0.4	0.9	2.8	8.0	22.4	39.1
58	0.1	0.2	0.4	0.9	2.7	7.8	22.1	38.3
59	0.1	0.2	0.4	0.9	2.6	7.7	21.7	37.6
60	0.1	0.2	0.4	0.9	2.5	7.5	21.3	37.0
61	0.1	0.2	0.4	0.9	2.5	7.3	20.9	36.3
62	0.1	0.2	0.4	0.9	2.4	7.1	20.5	35.8
63	0.1	0.2	0.4	0.9	2.3	6.9	20.1	35.3
64	0.1	0.2	0.4	0.8	2.3	6.8	19.7	34.8
65	0.1	0.2	0.4	0.8	2.2	6.6	19.3	34.3
66	0.1	0.2	0.4	0.8	2.2	6.5	18.8	33.7
67	0.1	0.2	0.4	0.8	2.1	6.3	18.4	33.1
68	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.5
69	0.1	0.2	0.4	0.8	2.1	6.0	17.7	31.8
70	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.2
71	0.1	0.2	0.4	0.8	2.0	5.7	17.0	30.6
72	0.1	0.2	0.4	0.8	2.0	5.6	16.6	30.0
73	0.1	0.2	0.4	0.8	1.9	5.4	16.2	29.4
74	0.1	0.2	0.4	0.9	1.9	5.3	15.8	28.8
75	0.1	0.2	0.4	0.9	1.9	5.2	15.5	28.2
76	0.1	0.2	0.4	0.9	1.9	5.1	15.1	27.7
77	0.1	0.2	0.4	0.9	1.9	5.0	14.8	27.2
78	0.1	0.2	0.4	0.9	1.9	4.9	14.6	26.6
79	0.1	0.2	0.4	0.9	1.9	4.8	14.2	26.0
80	0.1	0.2	0.5	0.9	1.9	4.7	13.9	25.4
81	0.1	0.2	0.5	0.9	1.9	4.7	13.6	24.9
82	0.1	0.2	0.5	0.9	1.9	4.6	13.2	24.4
83	0.1	0.2	0.5	0.9	1.9	4.5	12.9	23.9
84	0.1	0.2	0.5	0.9	1.9	4.5	12.6	23.5
85	0.1	0.2	0.5	1.0	1.9	4.4	12.4	23.0
86	0.1	0.2	0.5	1.0	2.0	4.4	12.1	22.5
87	0.1	0.2	0.5	1.0	2.0	4.4	11.9	22.0
88	0.1	0.2	0.5	1.0	2.0	4.4	11.7	21.5
89	0.1	0.2	0.5	1.0	2.0	4.4	11.5	21.0
90	0.1	0.3	0.5	1.0	2.0	4.3	11.3	20.5
91	0.1	0.3	0.5	1.0	2.1	4.3	11.1	20.1
92	0.1	0.3	0.5	1.0	2.1	4.3	10.9	19.7
93	0.1	0.3	0.5	1.0	2.1	4.3	10.8	19.4
94	0.1	0.3	0.5	1.1	2.1	4.3	10.7	19.0
95	0.1	0.3	0.5	1.1	2.2	4.4	10.5	18.7
96	0.1	0.3	0.5	1.1	2.2	4.4	10.4	18.4
97	0.1	0.3	0.5	1.1	2.2	4.5	10.4	18.1
98	0.1	0.3	0.5	1.1	2.2	4.5	10.3	17.8
99	0.1	0.3	0.6	1.1	2.2	4.6	10.3	17.6
100	0.1	0.3	0.6	1.1	2.3	4.6	10.3	17.4

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.8	1.0	1.4	2.0	3.2	4.4
2	0.2	0.5	0.8	1.1	1.5	2.2	3.4	4.6
3	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9
4	0.2	0.5	0.9	1.3	1.7	2.4	3.8	5.1
5	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4
6	0.2	0.5	1.0	1.5	2.0	2.8	4.2	5.6
7	0.2	0.5	1.0	1.6	2.1	3.0	4.4	5.9
8	0.2	0.5	1.0	1.7	2.3	3.2	4.7	6.2
9	0.2	0.5	1.0	1.8	2.4	3.4	5.0	6.6
10	0.2	0.5	1.1	1.8	2.6	3.6	5.3	6.9
11	0.2	0.4	1.1	1.9	2.8	3.8	5.6	7.3
12	0.2	0.4	1.1	2.0	3.0	4.1	5.9	7.6
13	0.2	0.4	1.1	2.1	3.2	4.3	6.3	8.1
14	0.1	0.4	1.1	2.1	3.4	4.6	6.6	8.5
15	0.1	0.4	1.1	2.2	3.5	4.9	7.0	9.0
16	0.1	0.4	1.0	2.2	3.8	5.2	7.4	9.4
17	0.1	0.4	1.0	2.3	3.9	5.6	7.9	10.0
18	0.1	0.4	1.0	2.3	4.1	5.9	8.3	10.5
19	0.1	0.3	0.9	2.3	4.3	6.3	8.8	11.1
20	0.1	0.3	0.9	2.4	4.4	6.7	9.4	11.7
21	0.1	0.3	0.9	2.4	4.6	7.1	9.9	12.4
22	0.1	0.3	0.9	2.3	4.7	7.5	10.5	13.0
23	0.1	0.3	0.9	2.3	4.8	7.9	11.2	13.8
24	0.1	0.3	0.8	2.2	4.9	8.3	11.8	14.6
25	0.1	0.3	0.8	2.2	5.0	8.7	12.5	15.4
26	0.1	0.3	0.8	2.1	5.0	9.1	13.3	16.2
27	0.1	0.3	0.8	2.1	5.1	9.4	14.1	17.2
28	0.1	0.3	0.7	2.0	5.2	9.7	15.0	18.1
29	0.1	0.2	0.7	2.0	5.2	10.0	15.7	19.2
30	0.1	0.2	0.7	1.9	5.1	10.3	16.6	20.3
31	0.1	0.2	0.7	1.9	5.1	10.5	17.4	21.4
32	0.1	0.2	0.6	1.8	5.0	10.7	18.3	22.7
33	0.1	0.2	0.6	1.8	4.8	10.9	19.1	23.9
34	0.1	0.2	0.6	1.7	4.7	11.0	19.9	25.1
35	0.1	0.2	0.6	1.7	4.6	11.2	20.6	26.4
36	0.1	0.2	0.6	1.6	4.5	11.3	21.3	27.7
37	0.1	0.2	0.6	1.6	4.4	11.4	21.9	29.0
38	0.1	0.2	0.5	1.5	4.3	11.4	22.5	30.2
39	0.1	0.2	0.5	1.5	4.2	11.4	23.0	31.4
40	0.1	0.2	0.5	1.5	4.1	11.2	23.4	32.5
41	0.1	0.2	0.5	1.4	4.0	10.9	23.9	33.5
42	0.1	0.2	0.5	1.4	3.9	10.6	24.3	34.4
43	0.1	0.2	0.5	1.3	3.8	10.4	24.7	35.3
44	0.1	0.2	0.4	1.3	3.7	10.2	25.0	36.1
45	0.1	0.2	0.4	1.3	3.6	10.0	25.3	36.8
46	0.1	0.2	0.4	1.2	3.5	9.8	25.5	37.5
47	0.1	0.2	0.4	1.2	3.4	9.7	25.5	38.1
48	0.1	0.2	0.4	1.2	3.4	9.5	25.4	38.7
49	0.1	0.2	0.4	1.1	3.3	9.3	25.2	39.2
50	0.1	0.2	0.4	1.1	3.2	9.1	24.7	39.6

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.4	1.0	3.1	8.9	24.1	40.0
52	0.1	0.2	0.4	1.0	3.0	8.7	23.6	40.2
53	0.1	0.2	0.4	1.0	2.9	8.5	23.2	40.2
54	0.1	0.2	0.4	1.0	2.9	8.3	22.8	39.9
55	0.1	0.2	0.4	0.9	2.8	8.1	22.4	39.3
56	0.1	0.2	0.4	0.9	2.7	7.9	22.0	38.4
57	0.1	0.2	0.4	0.9	2.6	7.7	21.7	37.7
58	0.1	0.2	0.4	0.9	2.6	7.5	21.3	37.0
59	0.1	0.2	0.4	0.9	2.5	7.4	21.0	36.4
60	0.1	0.2	0.4	0.9	2.4	7.2	20.5	35.9
61	0.1	0.2	0.4	0.8	2.4	7.0	20.1	35.2
62	0.1	0.2	0.4	0.8	2.3	6.8	19.7	34.7
63	0.1	0.2	0.4	0.8	2.2	6.6	19.3	34.1
64	0.1	0.2	0.4	0.8	2.2	6.5	18.9	33.7
65	0.1	0.2	0.4	0.8	2.1	6.3	18.5	33.1
66	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.5
67	0.1	0.2	0.4	0.8	2.1	6.1	17.7	31.9
68	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.3
69	0.1	0.2	0.4	0.8	2.0	5.7	17.0	30.6
70	0.1	0.2	0.4	0.8	2.0	5.6	16.7	30.0
71	0.1	0.2	0.4	0.8	1.9	5.4	16.3	29.4
72	0.1	0.2	0.4	0.8	1.9	5.3	15.9	28.8
73	0.1	0.2	0.4	0.8	1.9	5.2	15.5	28.2
74	0.1	0.2	0.4	0.9	1.9	5.1	15.1	27.7
75	0.1	0.2	0.4	0.9	1.9	5.0	14.8	27.1
76	0.1	0.2	0.4	0.9	1.9	4.9	14.6	26.6
77	0.1	0.2	0.4	0.9	1.9	4.8	14.3	26.1
78	0.1	0.2	0.4	0.9	1.9	4.7	13.9	25.5
79	0.1	0.2	0.4	0.9	1.9	4.6	13.6	24.9
80	0.1	0.2	0.5	0.9	1.9	4.6	13.3	24.4
81	0.1	0.2	0.5	0.9	1.9	4.5	13.0	23.9
82	0.1	0.2	0.5	0.9	1.9	4.4	12.6	23.4
83	0.1	0.2	0.5	0.9	1.9	4.4	12.4	23.0
84	0.1	0.2	0.5	0.9	1.9	4.4	12.1	22.5
85	0.1	0.2	0.5	1.0	1.9	4.4	11.9	22.0
86	0.1	0.2	0.5	1.0	2.0	4.3	11.6	21.5
87	0.1	0.2	0.5	1.0	2.0	4.3	11.4	21.0
88	0.1	0.2	0.5	1.0	2.0	4.3	11.2	20.5
89	0.1	0.2	0.5	1.0	2.0	4.3	11.0	20.1
90	0.1	0.3	0.5	1.0	2.0	4.3	10.9	19.7
91	0.1	0.3	0.5	1.0	2.1	4.3	10.7	19.3
92	0.1	0.3	0.5	1.0	2.1	4.3	10.6	19.0
93	0.1	0.2	0.5	1.0	2.1	4.3	10.5	18.6
94	0.1	0.3	0.5	1.1	2.1	4.3	10.3	18.3
95	0.1	0.3	0.5	1.1	2.2	4.4	10.2	18.0
96	0.1	0.3	0.5	1.1	2.2	4.4	10.2	17.7
97	0.1	0.3	0.5	1.1	2.2	4.5	10.2	17.5
98	0.1	0.3	0.5	1.1	2.2	4.5	10.2	17.3
99	0.1	0.3	0.6	1.1	2.2	4.4	10.1	17.1
100	0.1	0.3	0.6	1.1	2.3	4.6	10.1	16.9

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.8	1.1	1.5	2.1	3.3	4.6
2	0.2	0.5	0.8	1.2	1.6	2.2	3.5	4.8
3	0.2	0.5	0.9	1.2	1.7	2.4	3.7	5.0
4	0.2	0.5	0.9	1.3	1.8	2.6	3.9	5.3
5	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5
6	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.8
7	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1
8	0.2	0.5	1.0	1.7	2.4	3.3	4.9	6.4
9	0.2	0.5	1.0	1.8	2.5	3.5	5.2	6.8
10	0.2	0.4	1.1	1.9	2.7	3.7	5.5	7.1
11	0.2	0.4	1.1	2.0	2.9	4.0	5.8	7.5
12	0.2	0.4	1.1	2.0	3.1	4.2	6.1	7.9
13	0.1	0.4	1.1	2.1	3.3	4.5	6.5	8.4
14	0.1	0.4	1.1	2.2	3.5	4.8	6.9	8.8
15	0.1	0.4	1.0	2.2	3.7	5.1	7.3	9.3
16	0.1	0.4	1.0	2.2	3.9	5.5	7.7	9.8
17	0.1	0.4	1.0	2.3	4.1	5.8	8.2	10.3
18	0.1	0.3	0.9	2.3	4.2	6.2	8.7	10.9
19	0.1	0.3	0.9	2.3	4.4	6.6	9.2	11.5
20	0.1	0.3	0.9	2.3	4.5	7.0	9.8	12.2
21	0.1	0.3	0.9	2.3	4.6	7.4	10.4	12.9
22	0.1	0.3	0.9	2.3	4.7	7.8	11.0	13.6
23	0.1	0.3	0.8	2.2	4.8	8.2	11.7	14.3
24	0.1	0.3	0.8	2.2	4.9	8.6	12.4	15.2
25	0.1	0.3	0.8	2.1	5.0	9.0	13.1	16.0
26	0.1	0.3	0.8	2.0	5.1	9.3	13.9	16.9
27	0.1	0.3	0.7	2.0	5.1	9.6	14.8	17.9
28	0.1	0.2	0.7	2.0	5.1	9.9	15.5	18.9
29	0.1	0.2	0.7	1.9	5.1	10.1	16.4	20.0
30	0.1	0.2	0.7	1.9	5.0	10.4	17.2	21.2
31	0.1	0.2	0.6	1.8	4.9	10.6	18.1	22.4
32	0.1	0.2	0.6	1.8	4.8	10.8	18.9	23.7
33	0.1	0.2	0.6	1.7	4.7	10.9	19.7	24.8
34	0.1	0.2	0.6	1.7	4.5	11.1	20.4	26.1
35	0.1	0.2	0.6	1.6	4.4	11.2	21.1	27.4
36	0.1	0.2	0.5	1.6	4.4	11.3	21.7	28.7
37	0.1	0.2	0.5	1.5	4.3	11.3	22.3	29.9
38	0.1	0.2	0.5	1.5	4.2	11.2	22.8	31.1
39	0.1	0.2	0.5	1.4	4.1	11.1	23.2	32.1
40	0.1	0.2	0.5	1.4	4.0	10.8	23.6	33.1
41	0.1	0.2	0.5	1.4	3.9	10.5	24.1	34.1
42	0.1	0.2	0.4	1.3	3.8	10.3	24.4	35.0
43	0.1	0.2	0.4	1.3	3.7	10.1	24.7	35.7
44	0.1	0.2	0.4	1.2	3.6	9.9	25.0	36.4
45	0.1	0.2	0.4	1.2	3.5	9.7	25.2	37.1
46	0.1	0.2	0.4	1.2	3.4	9.5	25.2	37.7
47	0.1	0.2	0.4	1.1	3.3	9.4	25.1	38.3
48	0.1	0.2	0.4	1.1	3.2	9.2	24.9	38.8
49	0.1	0.2	0.4	1.1	3.1	9.0	24.4	39.2
50	0.1	0.2	0.4	1.0	3.1	8.8	23.8	39.6
51	0.1	0.2	0.4	1.0	3.0	8.6	23.3	39.7
52	0.1	0.2	0.4	1.0	2.9	8.4	22.9	39.7
53	0.1	0.2	0.4	1.0	2.8	8.2	22.5	39.4
54	0.1	0.2	0.4	0.9	2.7	8.0	22.1	38.8
55	0.1	0.2	0.4	0.9	2.7	7.8	21.7	37.8
56	0.1	0.2	0.4	0.9	2.6	7.6	21.4	37.1
57	0.1	0.2	0.4	0.9	2.5	7.4	21.0	36.5
58	0.1	0.2	0.4	0.9	2.4	7.2	20.6	35.8
59	0.1	0.2	0.4	0.8	2.4	7.1	20.2	35.2
60	0.1	0.2	0.4	0.8	2.3	6.9	19.8	34.7
61	0.1	0.2	0.4	0.8	2.3	6.7	19.4	34.2
62	0.1	0.2	0.4	0.8	2.2	6.5	19.0	33.7
63	0.1	0.2	0.4	0.8	2.2	6.4	18.6	33.2
64	0.1	0.2	0.4	0.8	2.1	6.2	18.2	32.6
65	0.1	0.2	0.4	0.8	2.1	6.1	17.8	32.0
66	0.1	0.2	0.4	0.8	2.0	5.9	17.4	31.4
67	0.1	0.2	0.4	0.8	2.0	5.8	17.0	30.7
68	0.1	0.2	0.4	0.8	2.0	5.6	16.7	30.1
69	0.1	0.2	0.4	0.8	1.9	5.5	16.4	29.5
70	0.1	0.2	0.4	0.8	1.9	5.3	16.0	28.9
71	0.1	0.2	0.4	0.8	1.9	5.2	15.6	28.3
72	0.1	0.2	0.4	0.8	1.9	5.1	15.2	27.7
73	0.1	0.2	0.4	0.8	1.9	5.0	14.9	27.2
74	0.1	0.2	0.4	0.9	1.9	4.9	14.6	26.7
75	0.1	0.2	0.4	0.9	1.8	4.8	14.3	26.2
76	0.1	0.2	0.4	0.9	1.8	4.7	14.0	25.6
77	0.1	0.2	0.4	0.9	1.8	4.6	13.7	25.0
78	0.1	0.2	0.4	0.9	1.8	4.6	13.3	24.4
79	0.1	0.2	0.4	0.9	1.8	4.5	13.0	23.9
80	0.1	0.2	0.5	0.9	1.8	4.4	12.7	23.4
81	0.1	0.2	0.5	0.9	1.8	4.4	12.4	23.0
82	0.1	0.2	0.5	0.9	1.9	4.3	12.1	22.6
83	0.1	0.2	0.5	0.9	1.9	4.3	11.9	22.1
84	0.1	0.2	0.5	0.9	1.9	4.3	11.6	21.6
85	0.1	0.2	0.5	1.0	1.9	4.3	11.4	21.1
86	0.1	0.2	0.5	1.0	2.0	4.3	11.2	20.6
87	0.1	0.2	0.5	1.0	2.0	4.2	11.0	20.1
88	0.1	0.2	0.5	1.0	2.0	4.2	10.8	19.7
89	0.1	0.2	0.5	1.0	2.0	4.2	10.7	19.3
90	0.1	0.3	0.5	1.0	2.0	4.2	10.6	19.0
91	0.1	0.3	0.5	1.0	2.1	4.2	10.4	18.6
92	0.1	0.3	0.5	1.0	2.1	4.2	10.3	18.3
93	0.1	0.3	0.5	1.0	2.1	4.3	10.2	18.0
94	0.1	0.3	0.5	1.1	2.1	4.3	10.1	17.7
95	0.1	0.3	0.5	1.1	2.2	4.4	10.1	17.4
96	0.1	0.3	0.5	1.1	2.2	4.4	10.1	17.2
97	0.1	0.3	0.5	1.1	2.2	4.5	10.0	17.0
98	0.1	0.3	0.5	1.1	2.2	4.5	10.0	16.8
99	0.1	0.3	0.6	1.1	2.2	4.6	9.9	16.6
100	0.1	0.3	0.6	1.1	2.3	4.6	9.9	16.4

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.5	0.9	1.2	1.6	2.3	3.6	4.9
3	0.2	0.5	0.9	1.3	1.8	2.5	3.8	5.2
4	0.2	0.5	0.9	1.4	1.9	2.7	4.0	5.4
5	0.2	0.5	1.0	1.5	2.0	2.8	4.3	5.7
6	0.2	0.5	1.0	1.6	2.2	3.0	4.5	6.0
7	0.2	0.5	1.0	1.7	2.3	3.2	4.8	6.3
8	0.2	0.5	1.0	1.8	2.5	3.4	5.1	6.7
9	0.2	0.4	1.0	1.9	2.7	3.7	5.4	7.0
10	0.2	0.4	1.1	1.9	2.8	3.9	5.7	7.4
11	0.2	0.4	1.1	2.0	3.0	4.1	6.0	7.8
12	0.1	0.4	1.1	2.1	3.2	4.4	6.4	8.2
13	0.1	0.4	1.1	2.1	3.4	4.7	6.8	8.6
14	0.1	0.4	1.0	2.2	3.6	5.0	7.2	9.1
15	0.1	0.4	1.0	2.2	3.8	5.4	7.6	9.6
16	0.1	0.4	1.0	2.3	4.0	5.7	8.1	10.2
17	0.1	0.3	0.9	2.3	4.2	6.1	8.5	10.7
18	0.1	0.3	0.9	2.3	4.3	6.5	9.1	11.3
19	0.1	0.3	0.9	2.3	4.4	6.9	9.6	12.0
20	0.1	0.3	0.9	2.3	4.6	7.3	10.2	12.6
21	0.1	0.3	0.8	2.3	4.7	7.7	10.8	13.4
22	0.1	0.3	0.8	2.2	4.8	8.1	11.5	14.1
23	0.1	0.3	0.8	2.1	4.9	8.5	12.2	14.9
24	0.1	0.3	0.8	2.1	4.9	8.8	12.9	15.8
25	0.1	0.3	0.7	2.0	5.0	9.2	13.7	16.7
26	0.1	0.3	0.7	2.0	5.1	9.5	14.5	17.6
27	0.1	0.2	0.7	1.9	5.1	9.8	15.3	18.7
28	0.1	0.2	0.7	1.9	5.1	10.0	16.1	19.7
29	0.1	0.2	0.7	1.9	5.0	10.2	17.0	20.9
30	0.1	0.2	0.6	1.8	4.9	10.5	17.8	22.1
31	0.1	0.2	0.6	1.8	4.7	10.6	18.7	23.3
32	0.1	0.2	0.6	1.7	4.6	10.8	19.4	24.5
33	0.1	0.2	0.6	1.7	4.5	11.0	20.1	25.8
34	0.1	0.2	0.6	1.6	4.4	11.1	20.8	27.0
35	0.1	0.2	0.5	1.6	4.3	11.2	21.4	28.3
36	0.1	0.2	0.5	1.5	4.2	11.2	22.0	29.6
37	0.1	0.2	0.5	1.5	4.1	11.1	22.5	30.7
38	0.1	0.2	0.5	1.4	4.0	10.9	23.0	31.8
39	0.1	0.2	0.5	1.4	3.9	10.7	23.4	32.8
40	0.1	0.2	0.5	1.3	3.8	10.4	23.8	33.7
41	0.1	0.2	0.4	1.3	3.7	10.2	24.1	34.6
42	0.1	0.2	0.4	1.3	3.6	10.0	24.5	35.4
43	0.1	0.2	0.4	1.2	3.6	9.8	24.8	36.0
44	0.1	0.2	0.4	1.2	3.5	9.6	24.9	36.7
45	0.1	0.2	0.4	1.2	3.4	9.4	25.0	37.3
46	0.1	0.2	0.4	1.1	3.3	9.3	24.9	37.9
47	0.1	0.2	0.4	1.1	3.2	9.1	24.6	38.4
48	0.1	0.2	0.4	1.0	3.1	8.9	24.1	38.8
49	0.1	0.2	0.4	1.0	3.0	8.7	23.5	39.2
50	0.1	0.2	0.4	1.0	2.9	8.5	23.0	39.3
51	0.1	0.2	0.4	1.0	2.8	8.3	22.6	39.2
52	0.1	0.2	0.4	0.9	2.8	8.1	22.2	38.9
53	0.1	0.2	0.4	0.9	2.7	7.9	21.8	38.3
54	0.1	0.2	0.4	0.9	2.6	7.7	21.5	37.3
55	0.1	0.2	0.4	0.9	2.6	7.5	21.1	36.6
56	0.1	0.2	0.4	0.9	2.5	7.3	20.8	36.0
57	0.1	0.2	0.4	0.8	2.4	7.1	20.4	35.4
58	0.1	0.2	0.4	0.8	2.3	7.0	20.0	34.8
59	0.1	0.2	0.4	0.8	2.3	6.8	19.5	34.2
60	0.1	0.2	0.4	0.8	2.2	6.6	19.1	33.8
61	0.1	0.2	0.4	0.8	2.2	6.4	18.7	33.3
62	0.1	0.2	0.4	0.8	2.1	6.3	18.3	32.7
63	0.1	0.2	0.4	0.8	2.1	6.2	17.9	32.1
64	0.1	0.2	0.4	0.8	2.0	6.0	17.5	31.5
65	0.1	0.2	0.4	0.8	2.0	5.8	17.1	30.9
66	0.1	0.2	0.4	0.8	2.0	5.7	16.8	30.3
67	0.1	0.2	0.4	0.8	1.9	5.5	16.4	29.7
68	0.1	0.2	0.4	0.8	1.9	5.4	16.1	29.1
69	0.1	0.2	0.4	0.8	1.9	5.3	15.7	28.5
70	0.1	0.2	0.4	0.8	1.9	5.1	15.3	27.9
71	0.1	0.2	0.4	0.8	1.8	5.0	15.0	27.3
72	0.1	0.2	0.4	0.8	1.8	4.9	14.6	26.8
73	0.1	0.2	0.4	0.8	1.8	4.8	14.3	26.2
74	0.1	0.2	0.4	0.9	1.8	4.7	14.1	25.7
75	0.1	0.2	0.4	0.9	1.8	4.6	13.7	25.1
76	0.1	0.2	0.4	0.9	1.8	4.6	13.4	24.6
77	0.1	0.2	0.4	0.9	1.8	4.5	13.1	24.0
78	0.1	0.2	0.4	0.9	1.8	4.4	12.8	23.5
79	0.1	0.2	0.4	0.9	1.8	4.4	12.5	23.0
80	0.1	0.2	0.5	0.9	1.8	4.3	12.2	22.6
81	0.1	0.2	0.5	0.9	1.9	4.3	11.9	22.2
82	0.1	0.2	0.5	0.9	1.9	4.2	11.7	21.7
83	0.1	0.2	0.5	0.9	1.9	4.2	11.4	21.2
84	0.1	0.2	0.5	0.9	1.9	4.2	11.2	20.7
85	0.1	0.2	0.5	1.0	1.9	4.2	11.0	20.2
86	0.1	0.2	0.5	1.0	2.0	4.2	10.8	19.8
87	0.1	0.2	0.5	1.0	2.0	4.2	10.7	19.3
88	0.1	0.2	0.5	1.0	2.0	4.2	10.5	19.0
89	0.1	0.2	0.5	1.0	2.0	4.2	10.4	18.6
90	0.1	0.3	0.5	1.0	2.0	4.2	10.3	18.3
91	0.1	0.3	0.5	1.0	2.1	4.2	10.1	17.9
92	0.1	0.3	0.5	1.0	2.1	4.2	10.0	17.6
93	0.1	0.3	0.5	1.0	2.1	4.3	10.0	17.4
94	0.1	0.3	0.5	1.1	2.1	4.3	9.9	17.1
95	0.1	0.3	0.5	1.1	2.2	4.4	9.9	16.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.9	16.7
97	0.1	0.3	0.5	1.1	2.2	4.5	9.8	16.5
98	0.1	0.3	0.5	1.1	2.2	4.5	9.8	16.3
99	0.1	0.3	0.6	1.1	2.2	4.6	9.8	16.2
100	0.1	0.3	0.6	1.1	2.3	4.6	9.8	16.1

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.8	1.2	1.6	2.3	3.5	4.8
2	0.2	0.5	0.9	1.3	1.7	2.4	3.7	5.1
3	0.2	0.5	0.9	1.4	1.8	2.6	3.9	5.3
4	0.2	0.5	0.9	1.5	2.0	2.8	4.2	5.6
5	0.2	0.5	1.0	1.5	2.1	2.9	4.4	5.9
6	0.2	0.5	1.0	1.6	2.3	3.1	4.7	6.2
7	0.2	0.5	1.0	1.7	2.4	3.3	5.0	6.5
8	0.2	0.4	1.0	1.8	2.6	3.6	5.2	6.9
9	0.2	0.4	1.0	1.9	2.8	3.8	5.6	7.2
10	0.2	0.4	1.1	2.0	3.0	4.1	5.9	7.6
11	0.1	0.4	1.1	2.0	3.2	4.3	6.2	8.0
12	0.1	0.4	1.1	2.1	3.3	4.6	6.6	8.5
13	0.1	0.4	1.0	2.1	3.5	4.9	7.0	8.9
14	0.1	0.4	1.0	2.2	3.7	5.2	7.4	9.4
15	0.1	0.4	1.0	2.2	3.9	5.6	7.9	10.0
16	0.1	0.3	0.9	2.3	4.1	6.0	8.4	10.5
17	0.1	0.3	0.9	2.3	4.2	6.3	8.9	11.1
18	0.1	0.3	0.9	2.3	4.4	6.7	9.4	11.7
19	0.1	0.3	0.9	2.3	4.5	7.1	10.0	12.4
20	0.1	0.3	0.8	2.3	4.6	7.5	10.6	13.1
21	0.1	0.3	0.8	2.2	4.7	7.9	11.2	13.9
22	0.1	0.3	0.8	2.1	4.8	8.3	11.9	14.7
23	0.1	0.3	0.8	2.1	4.9	8.7	12.7	15.5
24	0.1	0.3	0.7	2.0	4.9	9.0	13.4	16.4
25	0.1	0.2	0.7	2.0	5.0	9.4	14.3	17.3
26	0.1	0.2	0.7	1.9	5.0	9.6	15.1	18.3
27	0.1	0.2	0.7	1.9	5.0	9.9	15.9	19.4
28	0.1	0.2	0.7	1.8	5.0	10.1	16.7	20.5
29	0.1	0.2	0.6	1.8	4.8	10.3	17.6	21.7
30	0.1	0.2	0.6	1.7	4.7	10.5	18.4	23.0
31	0.1	0.2	0.6	1.7	4.6	10.7	19.2	24.2
32	0.1	0.2	0.6	1.6	4.5	10.8	19.9	25.4
33	0.1	0.2	0.6	1.6	4.4	11.0	20.6	26.7
34	0.1	0.2	0.5	1.5	4.3	11.1	21.2	28.0
35	0.1	0.2	0.5	1.5	4.2	11.1	21.8	29.2
36	0.1	0.2	0.5	1.5	4.1	11.0	22.3	30.3
37	0.1	0.2	0.5	1.4	4.0	10.9	22.7	31.4
38	0.1	0.2	0.5	1.4	3.9	10.6	23.1	32.4
39	0.1	0.2	0.5	1.3	3.8	10.3	23.5	33.3
40	0.1	0.2	0.4	1.3	3.7	10.1	23.9	34.2
41	0.1	0.2	0.4	1.2	3.6	9.9	24.2	35.0
42	0.1	0.2	0.4	1.2	3.5	9.7	24.5	35.6
43	0.1	0.2	0.4	1.2	3.4	9.5	24.7	36.3
44	0.1	0.2	0.4	1.1	3.3	9.3	24.7	36.9
45	0.1	0.2	0.4	1.1	3.2	9.2	24.6	37.5
46	0.1	0.2	0.4	1.1	3.2	9.0	24.3	38.0
47	0.1	0.2	0.4	1.0	3.1	8.8	23.8	38.4
48	0.1	0.2	0.4	1.0	3.0	8.6	23.2	38.8
49	0.1	0.2	0.4	1.0	2.9	8.4	22.8	38.9
50	0.1	0.2	0.4	1.0	2.8	8.2	22.3	39.8

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.4	0.9	2.7	8.0	21.9	38.5
52	0.1	0.2	0.4	0.9	2.7	7.8	21.5	37.8
53	0.1	0.2	0.4	0.9	2.6	7.6	21.2	36.9
54	0.1	0.2	0.4	0.9	2.5	7.4	20.9	36.2
55	0.1	0.2	0.3	0.9	2.5	7.2	20.5	35.6
56	0.1	0.2	0.3	0.9	2.4	7.1	20.1	34.9
57	0.1	0.2	0.4	0.8	2.3	6.9	19.7	34.4
58	0.1	0.2	0.4	0.8	2.3	6.7	19.3	33.8
59	0.1	0.2	0.4	0.8	2.2	6.5	18.9	33.4
60	0.1	0.2	0.4	0.8	2.1	6.3	18.5	32.8
61	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.3
62	0.1	0.2	0.4	0.8	2.0	6.1	17.7	31.7
63	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.1
64	0.1	0.2	0.4	0.8	2.0	5.8	16.9	30.5
65	0.1	0.2	0.4	0.8	1.9	5.6	16.6	29.9
66	0.1	0.2	0.4	0.8	1.9	5.5	16.2	29.3
67	0.1	0.2	0.4	0.8	1.9	5.3	15.9	28.6
68	0.1	0.2	0.4	0.8	1.8	5.2	15.5	28.1
69	0.1	0.2	0.4	0.8	1.8	5.1	15.1	27.5
70	0.1	0.2	0.4	0.8	1.8	4.9	14.7	26.9
71	0.1	0.2	0.4	0.8	1.8	4.8	14.4	26.4
72	0.1	0.2	0.4	0.8	1.8	4.7	14.1	25.9
73	0.1	0.2	0.4	0.8	1.8	4.6	13.8	25.3
74	0.1	0.2	0.4	0.9	1.8	4.6	13.5	24.8
75	0.1	0.2	0.4	0.9	1.8	4.5	13.2	24.2
76	0.1	0.2	0.4	0.9	1.8	4.4	12.9	23.6
77	0.1	0.2	0.4	0.9	1.8	4.4	12.6	23.1
78	0.1	0.2	0.4	0.9	1.8	4.3	12.3	22.7
79	0.1	0.2	0.4	0.9	1.8	4.2	12.0	22.3
80	0.1	0.2	0.5	0.9	1.8	4.2	11.7	21.8
81	0.1	0.2	0.5	0.9	1.9	4.2	11.5	21.3
82	0.1	0.2	0.5	0.9	1.9	4.2	11.3	20.8
83	0.1	0.2	0.5	0.9	1.9	4.2	11.0	20.4
84	0.1	0.2	0.5	0.9	1.9	4.1	10.8	19.9
85	0.1	0.2	0.5	1.0	1.9	4.1	10.7	19.4
86	0.1	0.2	0.5	1.0	2.0	4.1	10.5	19.0
87	0.1	0.2	0.5	1.0	2.0	4.1	10.4	18.7
88	0.1	0.2	0.5	1.0	2.0	4.1	10.2	18.3
89	0.1	0.2	0.5	1.0	2.0	4.1	10.1	18.0
90	0.1	0.3	0.5	1.0	2.0	4.2	10.0	17.7
91	0.1	0.3	0.5	1.0	2.1	4.2	9.9	17.4
92	0.1	0.3	0.5	1.0	2.1	4.3	9.8	17.1
93	0.1	0.3	0.5	1.0	2.1	4.3	9.8	16.9
94	0.1	0.3	0.5	1.1	2.1	4.3	9.8	16.7
95	0.1	0.3	0.5	1.1	2.2	4.4	9.7	16.5
96	0.1	0.3	0.5	1.1	2.2	4.4	9.7	16.3
97	0.1	0.3	0.5	1.1	2.2	4.5	9.7	16.1
98	0.1	0.3	0.5	1.1	2.2	4.5	9.7	16.0
99	0.1	0.3	0.6	1.1	2.2	4.6	9.7	15.9
100	0.1	0.3	0.6	1.1	2.3	4.6	9.7	15.9

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.9	1.2	1.7	2.4	3.6	5.0
2	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2
3	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5
4	0.2	0.5	1.0	1.5	2.0	2.9	4.3	5.8
5	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1
6	0.2	0.5	1.0	1.7	2.4	3.3	4.8	6.4
7	0.2	0.4	1.0	1.8	2.5	3.5	5.1	6.7
8	0.2	0.4	1.0	1.9	2.7	3.7	5.4	7.1
9	0.2	0.4	1.0	1.9	2.8	3.9	5.8	7.5
10	0.1	0.4	1.1	2.0	3.1	4.2	6.1	7.9
11	0.1	0.4	1.0	2.1	3.3	4.5	6.5	8.3
12	0.1	0.4	1.0	2.1	3.5	4.8	6.9	8.8
13	0.1	0.4	1.0	2.2	3.7	5.1	7.3	9.2
14	0.1	0.4	1.0	2.2	3.8	5.4	7.7	9.8
15	0.1	0.3	0.9	2.2	4.0	5.8	8.2	10.3
16	0.1	0.3	0.9	2.3	4.2	6.2	8.7	10.9
17	0.1	0.3	0.9	2.3	4.3	6.6	9.2	11.5
18	0.1	0.3	0.9	2.3	4.4	7.0	9.8	12.2
19	0.1	0.3	0.8	2.3	4.6	7.4	10.4	12.9
20	0.1	0.3	0.8	2.2	4.6	7.8	11.0	13.6
21	0.1	0.3	0.8	2.1	4.7	8.2	11.7	14.4
22	0.1	0.3	0.8	2.1	4.8	8.6	12.4	15.2
23	0.1	0.3	0.7	2.0	4.9	8.9	13.2	16.1
24	0.1	0.2	0.7	2.0	4.9	9.2	14.0	17.0
25	0.1	0.2	0.7	1.9	5.0	9.5	14.8	18.0
26	0.1	0.2	0.7	1.9	5.0	9.8	15.6	19.1
27	0.1	0.2	0.7	1.8	4.9	10.0	16.4	20.2
28	0.1	0.2	0.6	1.8	4.8	10.2	17.3	21.4
29	0.1	0.2	0.6	1.7	4.7	10.4	18.1	22.6
30	0.1	0.2	0.6	1.7	4.6	10.6	19.0	23.8
31	0.1	0.2	0.6	1.6	4.4	10.7	19.6	25.0
32	0.1	0.2	0.5	1.6	4.3	10.9	20.3	26.2
33	0.1	0.2	0.5	1.5	4.3	11.0	20.9	27.5
34	0.1	0.2	0.5	1.5	4.2	11.0	21.5	28.8
35	0.1	0.2	0.5	1.5	4.1	10.9	22.0	29.9
36	0.1	0.2	0.5	1.4	4.0	10.8	22.4	31.0
37	0.1	0.2	0.5	1.4	3.9	10.5	22.9	32.0
38	0.1	0.2	0.4	1.3	3.8	10.2	23.3	33.0
39	0.1	0.2	0.4	1.3	3.7	10.0	23.6	33.9
40	0.1	0.2	0.4	1.2	3.6	9.8	24.0	34.6
41	0.1	0.2	0.4	1.2	3.5	9.6	24.2	35.2
42	0.1	0.2	0.4	1.2	3.4	9.4	24.4	35.9
43	0.1	0.2	0.4	1.1	3.3	9.3	24.5	36.5
44	0.1	0.2	0.4	1.1	3.2	9.1	24.4	37.1
45	0.1	0.2	0.4	1.1	3.1	8.9	24.1	37.6
46	0.1	0.2	0.4	1.0	3.0	8.7	23.6	38.0
47	0.1	0.2	0.4	1.0	3.0	8.5	23.0	38.4
48	0.1	0.2	0.4	1.0	2.9	8.3	22.5	38.5
49	0.1	0.2	0.4	0.9	2.8	8.1	22.1	38.4
50	0.1	0.2	0.4	0.9	2.7	7.9	21.7	38.1

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.9	2.7	7.7	21.3	37.5
52	0.1	0.2	0.3	0.9	2.6	7.5	21.0	36.9
53	0.1	0.2	0.3	0.9	2.5	7.3	20.7	35.8
54	0.1	0.2	0.3	0.8	2.4	7.1	20.3	35.2
55	0.1	0.2	0.3	0.8	2.4	7.0	19.9	34.6
56	0.1	0.2	0.3	0.8	2.3	6.8	19.5	34.0
57	0.1	0.2	0.4	0.8	2.2	6.6	19.1	33.5
58	0.1	0.2	0.4	0.8	2.2	6.4	18.7	33.0
59	0.1	0.2	0.4	0.8	2.1	6.3	18.3	32.5
60	0.1	0.2	0.4	0.8	2.1	6.1	17.9	31.9
61	0.1	0.2	0.4	0.8	2.0	6.0	17.5	31.3
62	0.1	0.2	0.4	0.8	2.0	5.8	17.1	30.7
63	0.1	0.2	0.4	0.8	1.9	5.7	16.7	30.1
64	0.1	0.2	0.4	0.8	1.9	5.5	16.3	29.5
65	0.1	0.2	0.4	0.8	1.9	5.4	16.0	28.9
66	0.1	0.2	0.4	0.8	1.9	5.2	15.7	28.3
67	0.1	0.2	0.4	0.8	1.8	5.1	15.3	27.7
68	0.1	0.2	0.4	0.8	1.8	5.0	14.9	27.1
69	0.1	0.2	0.4	0.8	1.8	4.9	14.5	26.6
70	0.1	0.2	0.4	0.8	1.8	4.8	14.2	26.0
71	0.1	0.2	0.4	0.8	1.8	4.7	13.9	25.5
72	0.1	0.2	0.4	0.8	1.9	4.6	13.7	25.0
73	0.1	0.2	0.4	0.8	1.8	4.5	13.3	24.4
74	0.1	0.2	0.4	0.9	1.8	4.4	13.0	23.8
75	0.1	0.2	0.4	0.9	1.8	4.4	12.7	23.3
76	0.1	0.2	0.4	0.9	1.8	4.3	12.4	22.8
77	0.1	0.2	0.4	0.9	1.8	4.2	12.1	22.4
78	0.1	0.2	0.4	0.9	1.8	4.2	11.8	22.0
79	0.1	0.2	0.4	0.9	1.8	4.2	11.6	21.5
80	0.1	0.2	0.5	0.9	1.8	4.1	11.3	21.0
81	0.1	0.2	0.5	0.9	1.9	4.1	11.1	20.5
82	0.1	0.2	0.5	0.9	1.9	4.1	10.9	20.0
83	0.1	0.2	0.5	0.9	1.9	4.1	10.7	19.6
84	0.1	0.2	0.5	0.9	1.9	4.1	10.5	19.1
85	0.1	0.2	0.5	1.0	1.9	4.1	10.4	18.7
86	0.1	0.2	0.5	1.0	2.0	4.1	10.2	18.4
87	0.1	0.2	0.5	1.0	2.0	4.1	10.1	18.0
88	0.1	0.2	0.5	1.0	2.0	4.1	10.0	17.7
89	0.1	0.2	0.5	1.0	2.0	4.1	9.8	17.4
90	0.1	0.3	0.5	1.0	2.0	4.2	9.7	17.1
91	0.1	0.3	0.5	1.0	2.1	4.2	9.7	16.9
92	0.1	0.3	0.5	1.0	2.1	4.3	9.7	16.6
93	0.1	0.3	0.5	1.0	2.1	4.3	9.7	16.4
94	0.1	0.3	0.5	1.1	2.1	4.3	9.6	16.2
95	0.1	0.3	0.5	1.1	2.2	4.4	9.6	16.0
96	0.1	0.3	0.5	1.1	2.2	4.4	9.5	15.9
97	0.1	0.3	0.5	1.1	2.2	4.5	9.5	15.8
98	0.1	0.3	0.5	1.1	2.2	4.5	9.5	15.7
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	15.7
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	15.7

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4
3	0.2	0.5	0.9	1.5	2.0	2.8	4.2	5.6
4	0.2	0.5	1.0	1.6	2.1	3.0	4.5	5.9
5	0.2	0.5	1.0	1.7	2.3	3.2	4.7	6.2
6	0.2	0.4	1.0	1.7	2.4	3.4	5.0	6.6
7	0.2	0.4	1.0	1.8	2.6	3.6	5.3	6.9
8	0.2	0.4	1.0	1.9	2.8	3.9	5.6	7.3
9	0.1	0.4	1.0	2.0	3.0	4.1	6.0	7.7
10	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.1
11	0.1	0.4	1.0	2.1	3.4	4.7	6.7	8.6
12	0.1	0.4	1.0	2.1	3.6	5.0	7.1	9.0
13	0.1	0.4	1.0	2.2	3.8	5.3	7.5	9.6
14	0.1	0.3	0.9	2.2	3.9	5.7	8.0	10.1
15	0.1	0.3	0.9	2.2	4.1	6.0	8.5	10.7
16	0.1	0.3	0.9	2.3	4.2	6.4	9.0	11.3
17	0.1	0.3	0.9	2.3	4.4	6.8	9.6	11.9
18	0.1	0.3	0.8	2.2	4.5	7.2	10.1	12.6
19	0.1	0.3	0.8	2.2	4.6	7.6	10.8	13.3
20	0.1	0.3	0.8	2.1	4.7	8.0	11.4	14.1
21	0.1	0.3	0.8	2.1	4.8	8.4	12.1	14.9
22	0.1	0.3	0.7	2.0	4.8	8.8	12.9	15.8
23	0.1	0.2	0.7	2.0	4.9	9.1	13.7	16.7
24	0.1	0.2	0.7	1.9	4.9	9.4	14.5	17.7
25	0.1	0.2	0.7	1.9	4.9	9.6	15.3	18.7
26	0.1	0.2	0.6	1.8	4.9	9.9	16.1	19.8
27	0.1	0.2	0.6	1.8	4.8	10.1	17.0	21.0
28	0.1	0.2	0.6	1.7	4.7	10.3	17.8	22.2
29	0.1	0.2	0.6	1.7	4.5	10.5	18.6	23.4
30	0.1	0.2	0.6	1.6	4.4	10.6	19.3	24.6
31	0.1	0.2	0.5	1.6	4.3	10.7	20.0	25.8
32	0.1	0.2	0.5	1.5	4.2	10.9	20.6	27.1
33	0.1	0.2	0.5	1.5	4.1	10.9	21.2	28.4
34	0.1	0.2	0.5	1.4	4.1	10.8	21.7	29.5
35	0.1	0.2	0.5	1.4	4.0	10.7	22.2	30.6
36	0.1	0.2	0.5	1.4	3.9	10.5	22.6	31.6
37	0.1	0.2	0.4	1.3	3.8	10.2	23.0	32.5
38	0.1	0.2	0.4	1.3	3.7	9.9	23.4	33.4
39	0.1	0.2	0.4	1.2	3.6	9.7	23.7	34.2
40	0.1	0.2	0.4	1.2	3.5	9.5	24.0	34.8
41	0.1	0.2	0.4	1.2	3.4	9.3	24.2	35.5
42	0.1	0.2	0.4	1.1	3.3	9.2	24.3	36.1
43	0.1	0.2	0.4	1.1	3.2	9.0	24.2	36.7
44	0.1	0.2	0.4	1.1	3.1	8.8	23.9	37.2
45	0.1	0.2	0.4	1.0	3.0	8.6	23.4	37.6
46	0.1	0.2	0.4	1.0	2.9	8.4	22.8	38.0
47	0.1	0.2	0.4	1.0	2.8	8.2	22.4	38.1
48	0.1	0.2	0.4	0.9	2.8	8.0	21.9	38.1
49	0.1	0.2	0.3	0.9	2.7	7.8	21.5	37.7
50	0.1	0.2	0.3	0.9	2.6	7.6	21.1	37.1

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.9	2.6	7.4	20.8	36.2
52	0.1	0.2	0.3	0.9	2.5	7.2	20.5	35.5
53	0.1	0.2	0.3	0.8	2.4	7.1	20.1	34.8
54	0.1	0.2	0.3	0.9	2.3	6.9	19.7	34.2
55	0.1	0.2	0.3	0.8	2.3	6.7	19.3	33.6
56	0.1	0.2	0.3	0.8	2.2	6.5	18.9	33.1
57	0.1	0.2	0.4	0.8	2.1	6.4	18.5	32.6
58	0.1	0.2	0.4	0.8	2.1	6.2	18.1	32.1
59	0.1	0.2	0.4	0.8	2.0	6.1	17.7	31.6
60	0.1	0.2	0.4	0.8	2.0	5.9	17.3	31.0
61	0.1	0.2	0.4	0.8	2.0	5.8	16.9	30.4
62	0.1	0.2	0.4	0.8	1.9	5.6	16.5	29.8
63	0.1	0.2	0.4	0.8	1.9	5.5	16.2	29.2
64	0.1	0.2	0.4	0.8	1.9	5.3	15.8	28.6
65	0.1	0.2	0.4	0.8	1.8	5.2	15.5	28.0
66	0.1	0.2	0.4	0.8	1.8	5.0	15.1	27.4
67	0.1	0.2	0.4	0.8	1.8	4.9	14.7	26.8
68	0.1	0.2	0.4	0.8	1.8	4.8	14.4	26.2
69	0.1	0.2	0.4	0.8	1.8	4.7	14.0	25.7
70	0.1	0.2	0.4	0.8	1.8	4.6	13.8	25.2
71	0.1	0.2	0.4	0.8	1.8	4.5	13.5	24.7
72	0.1	0.2	0.4	0.8	1.7	4.4	13.2	24.1
73	0.1	0.2	0.4	0.8	1.7	4.4	12.8	23.5
74	0.1	0.2	0.4	0.9	1.7	4.3	12.5	23.0
75	0.1	0.2	0.4	0.9	1.7	4.2	12.2	22.5
76	0.1	0.2	0.4	0.9	1.8	4.2	11.9	22.1
77	0.1	0.2	0.4	0.9	1.8	4.1	11.6	21.7
78	0.1	0.2	0.4	0.9	1.8	4.1	11.4	21.2
79	0.1	0.2	0.4	0.9	1.8	4.1	11.2	20.7
80	0.1	0.2	0.5	0.9	1.8	4.1	10.9	20.2
81	0.1	0.2	0.5	0.9	1.9	4.1	10.7	19.8
82	0.1	0.2	0.5	0.9	1.9	4.0	10.5	19.3
83	0.1	0.2	0.5	0.9	1.9	4.0	10.4	18.9
84	0.1	0.2	0.5	0.9	1.9	4.0	10.2	18.5
85	0.1	0.2	0.5	1.0	1.9	4.0	10.1	18.1
86	0.1	0.2	0.5	1.0	2.0	4.0	10.0	17.8
87	0.1	0.2	0.5	1.0	2.0	4.0	9.8	17.5
88	0.1	0.2	0.5	1.0	2.0	4.1	9.7	17.2
89	0.1	0.2	0.5	1.0	2.0	4.1	9.6	16.9
90	0.1	0.3	0.5	1.0	2.0	4.2	9.6	16.6
91	0.1	0.3	0.5	1.0	2.1	4.2	9.6	16.4
92	0.1	0.3	0.5	1.0	2.1	4.3	9.5	16.2
93	0.1	0.3	0.5	1.0	2.1	4.3	9.5	16.0
94	0.1	0.3	0.5	1.1	2.1	4.3	9.4	15.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.4	15.7
96	0.1	0.3	0.5	1.1	2.2	4.4	9.4	15.6
97	0.1	0.3	0.5	1.1	2.2	4.5	9.4	15.6
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	15.5
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	15.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	15.4

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.9	1.3	1.8	2.5	3.9	5.2
2	0.2	0.5	0.9	1.4	1.9	2.7	4.1	5.5
3	0.2	0.5	0.9	1.5	2.1	2.9	4.3	5.8
4	0.2	0.5	1.0	1.6	2.2	3.1	4.6	6.1
5	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.4
6	0.2	0.4	1.0	1.8	2.5	3.5	5.2	6.8
7	0.2	0.4	1.0	1.9	2.7	3.7	5.5	7.1
8	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5
9	0.1	0.4	1.0	2.0	3.1	4.3	6.2	7.9
10	0.1	0.4	1.0	2.1	3.3	4.5	6.5	8.4
11	0.1	0.4	1.0	2.1	3.5	4.8	6.9	8.8
12	0.1	0.4	1.0	2.1	3.7	5.2	7.3	9.3
13	0.1	0.3	0.9	2.2	3.9	5.5	7.8	9.9
14	0.1	0.3	0.9	2.2	4.0	5.9	8.3	10.4
15	0.1	0.3	0.9	2.2	4.2	6.3	8.8	11.0
16	0.1	0.3	0.9	2.2	4.3	6.7	9.3	11.6
17	0.1	0.3	0.8	2.2	4.4	7.0	9.9	12.3
18	0.1	0.3	0.8	2.2	4.5	7.4	10.5	13.0
19	0.1	0.3	0.8	2.1	4.6	7.9	11.2	13.8
20	0.1	0.3	0.8	2.1	4.7	8.2	11.9	14.6
21	0.1	0.3	0.7	2.0	4.8	8.6	12.6	15.4
22	0.1	0.2	0.7	2.0	4.8	8.9	13.4	16.3
23	0.1	0.2	0.7	1.9	4.9	9.2	14.2	17.3
24	0.1	0.2	0.7	1.9	4.9	9.5	15.0	18.3
25	0.1	0.2	0.6	1.8	4.9	9.7	15.8	19.4
26	0.1	0.2	0.6	1.8	4.8	9.9	16.6	20.5
27	0.1	0.2	0.6	1.7	4.7	10.2	17.5	21.7
28	0.1	0.2	0.6	1.7	4.5	10.3	18.3	22.9
29	0.1	0.2	0.6	1.6	4.4	10.5	19.0	24.1
30	0.1	0.2	0.5	1.6	4.3	10.6	19.7	25.3
31	0.1	0.2	0.5	1.5	4.2	10.7	20.3	26.6
32	0.1	0.2	0.5	1.5	4.1	10.8	20.9	27.9
33	0.1	0.2	0.5	1.4	4.0	10.8	21.5	29.0
34	0.1	0.2	0.5	1.4	3.9	10.6	21.9	30.1
35	0.1	0.2	0.5	1.4	3.8	10.4	22.3	31.2
36	0.1	0.2	0.4	1.3	3.7	10.1	22.8	32.1
37	0.1	0.2	0.4	1.3	3.6	9.9	23.1	33.0
38	0.1	0.2	0.4	1.2	3.6	9.7	23.4	33.8
39	0.1	0.2	0.4	1.2	3.5	9.5	23.7	34.4
40	0.1	0.2	0.4	1.2	3.4	9.3	24.0	35.1
41	0.1	0.2	0.4	1.1	3.3	9.1	24.0	35.7
42	0.1	0.2	0.4	1.1	3.2	8.9	24.0	36.3
43	0.1	0.2	0.4	1.1	3.1	8.8	23.7	36.8
44	0.1	0.2	0.4	1.0	3.0	8.6	23.3	37.2
45	0.1	0.2	0.4	1.0	2.9	8.4	22.7	37.6
46	0.1	0.2	0.4	1.0	2.8	8.2	22.2	37.8
47	0.1	0.2	0.3	0.9	2.7	8.0	21.8	37.7
48	0.1	0.2	0.3	0.9	2.7	7.8	21.3	37.4
49	0.1	0.2	0.3	0.9	2.6	7.6	21.0	36.8
50	0.1	0.2	0.3	0.9	2.5	7.4	20.6	35.9
51	0.1	0.2	0.3	0.9	2.5	7.2	20.3	35.2
52	0.1	0.2	0.3	0.8	2.4	7.0	19.9	34.6
53	0.1	0.2	0.3	0.8	2.3	6.9	19.5	33.9
54	0.1	0.2	0.3	0.8	2.2	6.7	19.1	33.3
55	0.1	0.2	0.3	0.8	2.2	6.5	18.7	32.8
56	0.1	0.2	0.3	0.8	2.1	6.3	18.3	32.3
57	0.1	0.2	0.4	0.8	2.1	6.1	17.9	31.8
58	0.1	0.2	0.4	0.8	2.0	6.0	17.5	31.3
59	0.1	0.2	0.4	0.8	2.0	5.9	17.1	30.7
60	0.1	0.2	0.4	0.8	1.9	5.7	16.7	30.1
61	0.1	0.2	0.4	0.8	1.9	5.6	16.4	29.5
62	0.1	0.2	0.4	0.8	1.9	5.4	16.0	28.9
63	0.1	0.2	0.4	0.8	1.8	5.3	15.7	28.3
64	0.1	0.2	0.4	0.8	1.8	5.1	15.3	27.7
65	0.1	0.2	0.4	0.8	1.8	5.0	14.9	27.1
66	0.1	0.2	0.4	0.8	1.8	4.9	14.5	26.5
67	0.1	0.2	0.4	0.8	1.8	4.8	14.2	26.0
68	0.1	0.2	0.4	0.8	1.8	4.7	13.9	25.4
69	0.1	0.2	0.4	0.8	1.7	4.6	13.6	24.9
70	0.1	0.2	0.4	0.8	1.7	4.5	13.3	24.4
71	0.1	0.2	0.4	0.8	1.7	4.4	13.0	23.9
72	0.1	0.2	0.4	0.8	1.7	4.3	12.7	23.2
73	0.1	0.2	0.4	0.8	1.7	4.3	12.4	22.7
74	0.1	0.2	0.4	0.9	1.7	4.2	12.1	22.3
75	0.1	0.2	0.4	0.9	1.7	4.1	11.8	21.8
76	0.1	0.2	0.4	0.9	1.8	4.1	11.5	21.4
77	0.1	0.2	0.4	0.9	1.8	4.1	11.3	20.9
78	0.1	0.2	0.4	0.9	1.9	4.0	11.0	20.5
79	0.1	0.2	0.4	0.9	1.9	4.0	10.8	20.0
80	0.1	0.2	0.5	0.9	1.9	4.0	10.6	19.5
81	0.1	0.2	0.5	0.9	1.9	4.0	10.4	19.0
82	0.1	0.2	0.5	0.9	1.9	4.0	10.2	18.6
83	0.1	0.2	0.5	0.9	1.9	4.0	10.1	18.3
84	0.1	0.2	0.5	0.9	1.9	4.0	10.0	17.9
85	0.1	0.2	0.5	1.0	1.9	4.0	9.8	17.6
86	0.1	0.2	0.5	1.0	2.0	4.0	9.7	17.2
87	0.1	0.2	0.5	1.0	2.0	4.0	9.6	16.9
88	0.1	0.2	0.5	1.0	2.0	4.1	9.5	16.7
89	0.1	0.2	0.5	1.0	2.0	4.1	9.5	16.4
90	0.1	0.3	0.5	1.0	2.0	4.2	9.5	16.2
91	0.1	0.3	0.5	1.0	2.1	4.2	9.4	16.0
92	0.1	0.3	0.5	1.0	2.1	4.3	9.4	15.8
93	0.1	0.3	0.5	1.0	2.1	4.3	9.3	15.6
94	0.1	0.3	0.5	1.1	2.1	4.3	9.3	15.5
95	0.1	0.3	0.5	1.1	2.2	4.4	9.3	15.4
96	0.1	0.3	0.5	1.1	2.2	4.4	9.3	15.4
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	15.4
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	15.3
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	15.2
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	15.2

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

TEMPERATURE	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.9	1.4	1.9	2.6	4.0	5.4
2	0.2	0.5	0.9	1.5	2.0	2.8	4.2	5.6
3	0.2	0.5	1.0	1.6	2.1	3.0	4.5	5.9
4	0.2	0.4	1.0	1.7	2.3	3.2	4.7	6.3
5	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.6
6	0.2	0.4	1.0	1.8	2.6	3.6	5.3	7.0
7	0.2	0.4	1.0	1.9	2.8	3.9	5.6	7.3
8	0.1	0.4	1.0	2.0	3.0	4.1	6.0	7.7
9	0.1	0.4	1.0	2.0	3.2	4.4	6.4	8.2
10	0.1	0.4	1.0	2.1	3.4	4.7	6.7	8.6
11	0.1	0.4	1.0	2.1	3.6	5.0	7.2	9.1
12	0.1	0.3	0.9	2.2	3.8	5.4	7.6	9.6
13	0.1	0.3	0.9	2.2	3.9	5.7	8.1	10.2
14	0.1	0.3	0.9	2.2	4.1	6.1	8.6	10.7
15	0.1	0.3	0.9	2.2	4.2	6.5	9.1	11.4
16	0.1	0.3	0.8	2.2	4.4	6.9	9.7	12.0
17	0.1	0.3	0.8	2.2	4.5	7.3	10.3	12.7
18	0.1	0.3	0.8	2.1	4.6	7.7	10.9	13.4
19	0.1	0.3	0.8	2.1	4.6	8.1	11.6	14.2
20	0.1	0.3	0.7	2.0	4.7	8.4	12.3	15.1
21	0.1	0.2	0.7	2.0	4.8	8.8	13.1	15.9
22	0.1	0.2	0.7	1.9	4.8	9.1	13.9	16.9
23	0.1	0.2	0.7	1.9	4.9	9.4	14.7	17.9
24	0.1	0.2	0.6	1.8	4.8	9.6	15.5	18.9
25	0.1	0.2	0.6	1.8	4.8	9.8	16.3	20.1
26	0.1	0.2	0.6	1.7	4.7	10.0	17.1	21.3
27	0.1	0.2	0.6	1.7	4.5	10.2	18.0	22.5
28	0.1	0.2	0.6	1.6	4.4	10.4	18.7	23.6
29	0.1	0.2	0.5	1.6	4.3	10.5	19.4	24.9
30	0.1	0.2	0.5	1.5	4.2	10.6	20.0	26.1
31	0.1	0.2	0.5	1.5	4.1	10.7	20.6	27.4
32	0.1	0.2	0.5	1.4	4.0	10.7	21.2	28.6
33	0.1	0.2	0.5	1.4	3.9	10.6	21.6	29.7
34	0.1	0.2	0.5	1.4	3.8	10.4	22.1	30.7
35	0.1	0.2	0.4	1.3	3.7	10.1	22.5	31.7
36	0.1	0.2	0.4	1.3	3.6	9.8	22.9	32.5
37	0.1	0.2	0.4	1.2	3.5	9.6	23.2	33.3
38	0.1	0.2	0.4	1.2	3.4	9.4	23.5	34.0
39	0.1	0.2	0.4	1.2	3.3	9.2	23.7	34.7
40	0.1	0.2	0.4	1.1	3.2	9.1	23.8	35.3
41	0.1	0.2	0.4	1.1	3.2	8.9	23.8	35.9
42	0.1	0.2	0.4	1.0	3.1	8.7	23.6	36.4
43	0.1	0.2	0.4	1.0	3.0	8.5	23.1	36.8
44	0.1	0.2	0.4	1.0	2.9	8.3	22.5	37.2
45	0.1	0.2	0.3	1.0	2.8	8.1	22.1	37.4
46	0.1	0.2	0.3	0.9	2.7	7.9	21.6	37.4
47	0.1	0.2	0.3	0.9	2.7	7.7	21.2	37.1
48	0.1	0.2	0.3	0.9	2.6	7.5	20.8	36.6
49	0.1	0.2	0.3	0.9	2.5	7.3	20.5	35.7
50	0.1	0.2	0.3	0.8	2.4	7.1	20.2	35.0

TEMPERATURE	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.8	2.4	7.0	19.8	34.3
52	0.1	0.2	0.3	0.9	2.3	6.8	19.4	33.7
53	0.1	0.2	0.3	0.9	2.3	6.6	19.0	33.1
54	0.1	0.2	0.3	0.8	2.2	6.4	18.6	32.6
55	0.1	0.2	0.3	0.8	2.1	6.3	18.2	32.1
56	0.1	0.2	0.3	0.8	2.1	6.1	17.8	31.6
57	0.1	0.2	0.4	0.8	2.0	6.0	17.4	31.0
58	0.1	0.2	0.4	0.8	2.0	5.8	17.0	30.4
59	0.1	0.2	0.4	0.8	1.9	5.7	16.6	29.8
60	0.1	0.2	0.4	0.8	1.9	5.5	16.2	29.2
61	0.1	0.2	0.4	0.8	1.9	5.4	15.9	28.6
62	0.1	0.2	0.4	0.8	1.8	5.2	15.5	29.0
63	0.1	0.2	0.4	0.8	1.8	5.1	15.2	27.4
64	0.1	0.2	0.4	0.8	1.8	4.9	14.8	26.8
65	0.1	0.2	0.4	0.9	1.8	4.8	14.4	26.3
66	0.1	0.2	0.4	0.8	1.7	4.7	14.1	25.7
67	0.1	0.2	0.4	0.9	1.7	4.6	13.8	25.2
68	0.1	0.2	0.4	0.8	1.7	4.5	13.5	24.7
69	0.1	0.2	0.4	0.8	1.7	4.4	13.2	24.2
70	0.1	0.2	0.4	0.8	1.7	4.3	12.9	23.6
71	0.1	0.2	0.4	0.8	1.7	4.3	12.6	23.0
72	0.1	0.2	0.4	0.8	1.7	4.2	12.3	22.5
73	0.1	0.2	0.4	0.9	1.7	4.1	11.9	22.0
74	0.1	0.2	0.4	0.9	1.7	4.1	11.6	21.6
75	0.1	0.2	0.4	0.9	1.7	4.0	11.4	21.2
76	0.1	0.2	0.4	0.9	1.8	4.0	11.1	20.7
77	0.1	0.2	0.4	0.9	1.8	4.0	10.9	20.2
78	0.1	0.2	0.4	0.9	1.8	4.0	10.7	19.9
79	0.1	0.2	0.4	0.9	1.8	4.0	10.5	19.3
80	0.1	0.2	0.5	0.9	1.8	3.9	10.3	18.8
81	0.1	0.2	0.5	0.9	1.9	3.9	10.1	18.4
82	0.1	0.2	0.5	0.9	1.9	3.9	10.0	18.1
83	0.1	0.2	0.5	0.9	1.9	3.9	9.8	17.7
84	0.1	0.2	0.5	0.9	1.9	3.9	9.7	17.4
85	0.1	0.2	0.5	1.0	1.9	3.9	9.6	17.0
86	0.1	0.2	0.5	1.0	2.0	4.0	9.5	16.8
87	0.1	0.2	0.5	1.0	2.0	4.0	9.4	16.5
88	0.1	0.2	0.5	1.0	2.0	4.1	9.4	16.2
89	0.1	0.2	0.5	1.0	2.0	4.1	9.4	16.0
90	0.1	0.3	0.5	1.0	2.0	4.2	9.3	15.8
91	0.1	0.3	0.5	1.0	2.1	4.2	9.3	15.6
92	0.1	0.3	0.5	1.0	2.1	4.3	9.2	15.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.2	15.3
94	0.1	0.3	0.5	1.1	2.1	4.3	9.2	15.2
95	0.1	0.3	0.5	1.1	2.2	4.4	9.2	15.2
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	15.2
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	15.1
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	15.0
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	15.0
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	15.0

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

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

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.5	0.9	1.6	2.1	3.0	4.5	5.9
3	0.2	0.4	1.0	1.7	2.3	3.2	4.7	6.3
4	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.6
5	0.2	0.4	1.0	1.8	2.6	3.6	5.3	7.0
6	0.1	0.4	1.0	1.9	2.8	3.9	5.6	7.3
7	0.1	0.4	1.0	2.0	3.0	4.1	6.0	7.7
8	0.1	0.4	1.0	2.0	3.2	4.4	6.4	8.2
9	0.1	0.4	1.0	2.1	3.4	4.7	6.8	8.6
10	0.1	0.4	0.9	2.1	3.6	5.0	7.2	9.1
11	0.1	0.3	0.9	2.1	3.8	5.4	7.6	9.6
12	0.1	0.3	0.9	2.2	3.9	5.7	8.1	10.2
13	0.1	0.3	0.9	2.2	4.1	6.1	8.6	10.8
14	0.1	0.3	0.8	2.2	4.2	6.5	9.1	11.4
15	0.1	0.3	0.8	2.2	4.3	6.9	9.7	12.1
16	0.1	0.3	0.8	2.2	4.4	7.3	10.3	12.8
17	0.1	0.3	0.8	2.1	4.5	7.7	11.0	13.5
18	0.1	0.3	0.7	2.0	4.6	8.1	11.7	14.3
19	0.1	0.3	0.7	2.0	4.7	8.4	12.4	15.2
20	0.1	0.2	0.7	1.9	4.7	8.8	13.2	16.1
21	0.1	0.2	0.7	1.9	4.8	9.1	14.0	17.0
22	0.1	0.2	0.7	1.8	4.8	9.3	14.8	18.0
23	0.1	0.2	0.6	1.8	4.8	9.6	15.6	19.1
24	0.1	0.2	0.6	1.7	4.7	9.8	16.4	20.3
25	0.1	0.2	0.6	1.7	4.5	10.0	17.2	21.5
26	0.1	0.2	0.6	1.6	4.4	10.1	18.0	22.6
27	0.1	0.2	0.5	1.6	4.3	10.3	18.7	23.8
28	0.1	0.2	0.5	1.5	4.2	10.4	19.4	25.0
29	0.1	0.2	0.5	1.5	4.1	10.5	20.0	26.3
30	0.1	0.2	0.5	1.4	4.0	10.5	20.6	27.6
31	0.1	0.2	0.5	1.4	3.9	10.5	21.1	28.7
32	0.1	0.2	0.5	1.4	3.8	10.3	21.5	29.7
33	0.1	0.2	0.4	1.3	3.7	10.1	21.9	30.7
34	0.1	0.2	0.4	1.3	3.6	9.8	22.3	31.6
35	0.1	0.2	0.4	1.2	3.5	9.6	22.7	32.5
36	0.1	0.2	0.4	1.2	3.4	9.4	23.0	33.2
37	0.1	0.2	0.4	1.2	3.3	9.2	23.2	33.8
38	0.1	0.1	0.4	1.1	3.2	9.0	23.4	34.5
39	0.1	0.1	0.4	1.1	3.1	8.8	23.4	35.1
40	0.1	0.1	0.4	1.0	3.1	8.6	23.3	35.6
41	0.1	0.1	0.4	1.0	3.0	8.4	22.9	36.1
42	0.1	0.1	0.3	1.0	2.9	8.2	22.4	36.5
43	0.1	0.2	0.3	0.9	2.8	8.0	21.9	36.8
44	0.1	0.2	0.3	0.9	2.7	7.8	21.4	36.8
45	0.1	0.2	0.3	0.9	2.6	7.6	21.0	36.6
46	0.1	0.2	0.3	0.9	2.6	7.5	20.6	36.2
47	0.1	0.2	0.3	0.8	2.5	7.3	20.2	35.4
48	0.1	0.2	0.3	0.8	2.4	7.1	19.9	34.6
49	0.1	0.2	0.3	0.8	2.4	6.9	19.6	33.9
50	0.1	0.2	0.3	0.8	2.3	6.7	19.2	33.3
51	0.1	0.2	0.3	0.8	2.2	6.6	18.8	32.7
52	0.1	0.2	0.3	0.8	2.1	6.4	18.4	32.1
53	0.1	0.2	0.3	0.8	2.1	6.2	18.0	31.6
54	0.1	0.2	0.3	0.8	2.0	6.0	17.6	31.2
55	0.1	0.2	0.3	0.8	2.0	5.9	17.2	30.6
56	0.1	0.2	0.3	0.7	1.9	5.7	16.8	30.0
57	0.1	0.2	0.4	0.7	1.9	5.6	16.4	29.4
58	0.1	0.2	0.4	0.7	1.9	5.5	16.0	28.8
59	0.1	0.2	0.4	0.7	1.8	5.3	15.6	29.2
60	0.1	0.2	0.4	0.7	1.8	5.2	15.3	27.6
61	0.1	0.2	0.4	0.7	1.8	5.0	15.0	27.0
62	0.1	0.2	0.4	0.7	1.7	4.9	14.6	26.4
63	0.1	0.2	0.4	0.8	1.7	4.8	14.2	25.9
64	0.1	0.2	0.4	0.8	1.7	4.6	13.8	25.3
65	0.1	0.2	0.4	0.8	1.7	4.5	13.5	24.8
66	0.1	0.2	0.4	0.8	1.7	4.4	13.3	24.3
67	0.1	0.2	0.4	0.8	1.7	4.3	13.0	23.8
68	0.1	0.2	0.4	0.8	1.7	4.3	12.7	23.2
69	0.1	0.2	0.4	0.8	1.7	4.2	12.4	22.6
70	0.1	0.2	0.4	0.8	1.7	4.1	12.0	22.1
71	0.1	0.2	0.4	0.8	1.7	4.1	11.7	21.6
72	0.1	0.2	0.4	0.8	1.7	4.0	11.4	21.2
73	0.1	0.2	0.4	0.8	1.7	4.0	11.2	20.8
74	0.1	0.2	0.4	0.9	1.7	3.9	10.9	20.3
75	0.1	0.2	0.4	0.9	1.7	3.9	10.7	19.9
76	0.1	0.2	0.4	0.9	1.8	3.9	10.5	19.4
77	0.1	0.2	0.4	0.9	1.8	3.9	10.3	18.9
78	0.1	0.2	0.4	0.9	1.8	3.9	10.1	18.5
79	0.1	0.2	0.4	0.9	1.8	3.8	9.9	18.1
80	0.1	0.2	0.5	0.9	1.8	3.8	9.8	17.7
81	0.1	0.2	0.5	0.9	1.9	3.8	9.7	17.4
82	0.1	0.2	0.5	0.9	1.9	3.8	9.5	17.0
83	0.1	0.2	0.5	0.9	1.9	3.9	9.4	16.7
84	0.1	0.2	0.5	0.9	1.9	3.9	9.3	16.4
85	0.1	0.2	0.5	1.0	1.9	4.0	9.2	16.2
86	0.1	0.2	0.5	1.0	2.0	4.0	9.2	15.9
87	0.1	0.2	0.5	1.0	2.0	4.0	9.2	15.7
88	0.1	0.2	0.5	1.0	2.0	4.1	9.1	15.5
89	0.1	0.2	0.5	1.0	2.0	4.1	9.1	15.3
90	0.1	0.3	0.5	1.0	2.0	4.2	9.0	15.1
91	0.1	0.3	0.5	1.0	2.1	4.2	9.0	15.0
92	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.9
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.9
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.9
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.8
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.7
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.7
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.7
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.7
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.7

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.9	1.5	2.1	2.9	4.3	5.8
2	0.2	0.4	1.0	1.6	2.2	3.1	4.6	6.1
3	0.2	0.4	1.0	1.7	2.4	3.3	4.9	6.4
4	0.2	0.4	1.0	1.8	2.5	3.5	5.2	6.8
5	0.1	0.4	1.0	1.8	2.7	3.7	5.5	7.1
6	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5
7	0.1	0.4	1.0	2.0	3.1	4.3	6.2	7.9
8	0.1	0.4	1.0	2.0	3.3	4.6	6.6	8.4
9	0.1	0.4	1.0	2.1	3.5	4.9	7.0	8.9
10	0.1	0.3	0.9	2.1	3.7	5.2	7.4	9.4
11	0.1	0.3	0.9	2.1	3.8	5.6	7.9	9.9
12	0.1	0.3	0.9	2.2	4.0	5.9	8.3	10.5
13	0.1	0.3	0.8	2.2	4.1	6.3	8.9	11.1
14	0.1	0.3	0.8	2.2	4.3	6.7	9.4	11.7
15	0.1	0.3	0.8	2.2	4.4	7.1	10.0	12.4
16	0.1	0.3	0.8	2.1	4.5	7.5	10.6	13.2
17	0.1	0.3	0.8	2.0	4.5	7.9	11.3	13.9
18	0.1	0.3	0.7	2.0	4.6	8.3	12.0	14.8
19	0.1	0.2	0.7	1.9	4.7	8.6	12.8	15.6
20	0.1	0.2	0.7	1.9	4.7	8.9	13.6	16.6
21	0.1	0.2	0.7	1.9	4.8	9.2	14.4	17.6
22	0.1	0.2	0.6	1.8	4.7	9.4	15.2	18.6
23	0.1	0.2	0.6	1.7	4.7	9.6	16.0	19.7
24	0.1	0.2	0.6	1.7	4.5	9.8	16.8	20.9
25	0.1	0.2	0.6	1.6	4.4	10.0	17.6	22.1
26	0.1	0.2	0.5	1.6	4.3	10.2	18.4	23.3
27	0.1	0.2	0.5	1.5	4.2	10.3	19.0	24.5
28	0.1	0.2	0.5	1.5	4.1	10.4	19.7	25.7
29	0.1	0.2	0.5	1.4	4.0	10.5	20.3	27.0
30	0.1	0.2	0.5	1.4	3.9	10.4	20.8	28.1
31	0.1	0.2	0.5	1.4	3.8	10.3	21.2	29.2
32	0.1	0.2	0.4	1.3	3.7	10.1	21.7	30.2
33	0.1	0.2	0.4	1.3	3.6	9.8	22.1	31.1
34	0.1	0.2	0.4	1.2	3.5	9.6	22.4	32.0
35	0.1	0.2	0.4	1.2	3.4	9.3	22.7	32.8
36	0.1	0.2	0.4	1.2	3.3	9.1	23.0	33.4
37	0.1	0.1	0.4	1.1	3.2	9.0	23.2	34.1
38	0.1	0.1	0.4	1.1	3.1	8.8	23.2	34.7
39	0.1	0.1	0.4	1.0	3.1	8.6	23.1	35.2
40	0.1	0.1	0.4	1.0	3.0	8.4	22.9	35.7
41	0.1	0.1	0.3	1.0	2.9	8.2	22.4	36.1
42	0.1	0.1	0.3	0.9	2.8	8.0	21.8	36.4
43	0.1	0.2	0.3	0.9	2.7	7.8	21.3	36.5
44	0.1	0.2	0.3	0.9	2.6	7.6	20.9	36.4
45	0.1	0.2	0.3	0.9	2.6	7.4	20.5	36.0
46	0.1	0.2	0.3	0.8	2.5	7.2	20.1	35.3
47	0.1	0.2	0.3	0.8	2.4	7.0	19.8	34.4
48	0.1	0.2	0.3	0.8	2.3	6.9	19.5	33.7
49	0.1	0.2	0.3	0.8	2.3	6.7	19.1	33.1
50	0.1	0.2	0.3	0.8	2.2	6.5	18.7	32.5
51	0.1	0.2	0.3	0.8	2.1	6.4	18.3	31.9
52	0.1	0.2	0.3	0.8	2.1	6.2	17.9	31.4
53	0.1	0.2	0.3	0.8	2.0	6.0	17.5	31.0
54	0.1	0.2	0.3	0.7	2.0	5.8	17.1	30.4
55	0.1	0.2	0.3	0.7	1.9	5.7	16.7	29.8
56	0.1	0.2	0.3	0.7	1.9	5.6	16.3	29.2
57	0.1	0.2	0.4	0.7	1.8	5.4	15.9	28.7
58	0.1	0.2	0.4	0.7	1.8	5.3	15.5	28.1
59	0.1	0.2	0.4	0.7	1.8	5.1	15.2	27.5
60	0.1	0.2	0.4	0.7	1.8	5.0	14.9	26.9
61	0.1	0.2	0.4	0.7	1.7	4.9	14.5	26.3
62	0.1	0.2	0.4	0.7	1.7	4.7	14.1	25.7
63	0.1	0.2	0.4	0.8	1.7	4.6	13.8	25.1
64	0.1	0.2	0.4	0.8	1.7	4.5	13.4	24.6
65	0.1	0.2	0.4	0.8	1.7	4.4	13.2	24.1
66	0.1	0.2	0.4	0.8	1.7	4.3	12.9	23.6
67	0.1	0.2	0.4	0.8	1.7	4.2	12.6	23.0
68	0.1	0.2	0.4	0.8	1.7	4.2	12.3	22.5
69	0.1	0.2	0.4	0.8	1.7	4.1	12.0	22.0
70	0.1	0.2	0.4	0.8	1.7	4.0	11.7	21.5
71	0.1	0.2	0.4	0.8	1.7	4.0	11.4	21.1
72	0.1	0.2	0.4	0.8	1.7	3.9	11.1	20.7
73	0.1	0.2	0.4	0.8	1.7	3.9	10.8	20.2
74	0.1	0.2	0.4	0.9	1.7	3.9	10.6	19.7
75	0.1	0.2	0.4	0.9	1.7	3.9	10.4	19.3
76	0.1	0.2	0.4	0.9	1.9	3.9	10.2	18.8
77	0.1	0.2	0.4	0.9	1.8	3.8	10.0	18.3
78	0.1	0.2	0.4	0.9	1.8	3.8	9.9	17.9
79	0.1	0.2	0.4	0.9	1.8	3.8	9.7	17.6
80	0.1	0.2	0.5	0.9	1.8	3.8	9.6	17.2
81	0.1	0.2	0.5	0.9	1.9	3.8	9.4	16.9
82	0.1	0.2	0.5	0.9	1.9	3.9	9.3	16.6
83	0.1	0.2	0.5	0.9	1.9	3.9	9.2	16.3
84	0.1	0.2	0.5	0.9	1.9	3.9	9.1	16.0
85	0.1	0.2	0.5	1.0	1.9	4.0	9.1	15.8
86	0.1	0.2	0.5	1.0	2.0	4.0	9.1	15.4
87	0.1	0.2	0.5	1.0	2.0	4.0	9.1	15.4
88	0.1	0.2	0.5	1.0	2.0	4.1	9.0	15.2
89	0.1	0.2	0.5	1.0	2.0	4.1	9.0	15.0
90	0.1	0.3	0.5	1.0	2.0	4.2	8.9	14.9
91	0.1	0.3	0.5	1.0	2.1	4.2	8.9	14.8
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	14.9
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.7
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.6
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.6
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.6
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.6
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.6
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.2	0.5	0.9	1.5	2.1	3.0	4.4	5.9
2	0.2	0.4	1.0	1.6	2.3	3.2	4.7	6.2
3	0.2	0.4	1.0	1.7	2.5	3.4	5.0	6.6
4	0.2	0.4	1.0	1.8	2.6	3.6	5.3	6.9
5	0.1	0.4	1.0	1.9	2.8	3.9	5.6	7.3
6	0.1	0.4	1.0	1.9	3.0	4.1	6.0	7.7
7	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.2
8	0.1	0.4	1.0	2.0	3.4	4.7	6.7	8.6
9	0.1	0.3	0.9	2.1	3.6	5.0	7.2	9.1
10	0.1	0.3	0.9	2.1	3.8	5.4	7.6	9.6
11	0.1	0.3	0.9	2.1	3.9	5.7	8.1	10.2
12	0.1	0.3	0.9	2.2	4.1	6.1	8.6	10.8
13	0.1	0.3	0.8	2.2	4.2	6.5	9.1	11.4
14	0.1	0.3	0.8	2.2	4.3	6.9	9.7	12.1
15	0.1	0.3	0.8	2.1	4.4	7.3	10.3	12.8
16	0.1	0.3	0.8	2.0	4.5	7.7	11.0	13.5
17	0.1	0.3	0.7	2.0	4.6	8.1	11.7	14.4
18	0.1	0.2	0.7	1.9	4.6	8.4	12.4	15.2
19	0.1	0.2	0.7	1.9	4.7	8.7	13.2	16.1
20	0.1	0.2	0.7	1.8	4.7	9.0	14.0	17.1
21	0.1	0.2	0.6	1.8	4.7	9.3	14.8	18.1
22	0.1	0.2	0.6	1.7	4.7	9.5	15.6	19.2
23	0.1	0.2	0.6	1.7	4.6	9.7	16.4	20.4
24	0.1	0.2	0.6	1.6	4.4	9.9	17.3	21.6
25	0.1	0.2	0.6	1.6	4.3	10.0	18.0	22.7
26	0.1	0.2	0.5	1.5	4.2	10.2	18.7	23.9
27	0.1	0.2	0.5	1.5	4.1	10.3	19.3	25.1
28	0.1	0.2	0.5	1.4	4.0	10.4	19.9	26.4
29	0.1	0.2	0.5	1.4	3.9	10.4	20.5	27.6
30	0.1	0.2	0.5	1.4	3.8	10.3	20.9	28.7
31	0.1	0.2	0.4	1.3	3.7	10.1	21.4	29.7
32	0.1	0.2	0.4	1.3	3.6	9.8	21.8	30.6
33	0.1	0.2	0.4	1.2	3.5	9.6	22.1	31.5
34	0.1	0.2	0.4	1.2	3.4	9.3	22.5	32.3
35	0.1	0.1	0.4	1.2	3.3	9.1	22.7	33.0
36	0.1	0.1	0.4	1.1	3.2	8.9	23.0	33.6
37	0.1	0.1	0.4	1.1	3.1	8.8	23.1	34.3
38	0.1	0.1	0.4	1.0	3.1	8.6	23.0	34.8
39	0.1	0.1	0.4	1.0	3.0	8.4	22.8	35.3
40	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.7
41	0.1	0.1	0.3	0.9	2.8	8.0	21.7	36.1
42	0.1	0.1	0.3	0.9	2.7	7.8	21.3	36.2
43	0.1	0.2	0.3	0.9	2.6	7.6	20.8	36.2
44	0.1	0.2	0.3	0.9	2.6	7.4	20.4	35.8
45	0.1	0.2	0.3	0.8	2.5	7.2	20.0	35.2
46	0.1	0.2	0.3	0.8	2.4	7.0	19.7	34.3
47	0.1	0.2	0.3	0.8	2.3	6.9	19.4	33.6
48	0.1	0.2	0.3	0.8	2.3	6.7	19.0	33.0
49	0.1	0.2	0.3	0.8	2.2	6.5	18.6	32.4
50	0.1	0.2	0.3	0.8	2.1	6.3	18.2	31.8

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.9	2.1	6.2	17.8	31.3
52	0.1	0.2	0.3	0.7	2.0	6.0	17.4	30.8
53	0.1	0.2	0.3	0.7	2.0	5.8	17.0	30.3
54	0.1	0.2	0.3	0.7	1.9	5.7	16.6	29.7
55	0.1	0.2	0.3	0.7	1.9	5.6	16.2	29.1
56	0.1	0.2	0.3	0.7	1.9	5.4	15.8	28.5
57	0.1	0.2	0.4	0.7	1.8	5.3	15.5	27.9
58	0.1	0.2	0.4	0.7	1.8	5.1	15.1	27.3
59	0.1	0.2	0.4	0.7	1.7	5.0	14.8	26.7
60	0.1	0.2	0.4	0.7	1.7	4.8	14.4	26.1
61	0.1	0.2	0.4	0.7	1.7	4.7	14.1	25.6
62	0.1	0.2	0.4	0.7	1.7	4.6	13.7	25.0
63	0.1	0.2	0.4	0.8	1.7	4.5	13.4	24.5
64	0.1	0.2	0.4	0.8	1.7	4.4	13.1	24.0
65	0.1	0.2	0.4	0.8	1.7	4.3	12.8	23.5
66	0.1	0.2	0.4	0.8	1.6	4.2	12.5	22.9
67	0.1	0.2	0.4	0.8	1.6	4.1	12.2	22.3
68	0.1	0.2	0.4	0.8	1.6	4.1	11.9	21.8
69	0.1	0.2	0.4	0.8	1.6	4.0	11.6	21.3
70	0.1	0.2	0.4	0.8	1.6	3.9	11.3	20.9
71	0.1	0.2	0.4	0.8	1.7	3.9	11.0	20.5
72	0.1	0.2	0.4	0.8	1.7	3.9	10.8	20.1
73	0.1	0.2	0.4	0.8	1.7	3.8	10.6	19.6
74	0.1	0.2	0.4	0.9	1.7	3.8	10.3	19.1
75	0.1	0.2	0.4	0.9	1.7	3.8	10.1	18.7
76	0.1	0.2	0.4	0.9	1.8	3.8	9.9	18.2
77	0.1	0.2	0.4	0.9	1.8	3.8	9.8	17.8
78	0.1	0.2	0.4	0.9	1.8	3.8	9.6	17.4
79	0.1	0.2	0.4	0.9	1.8	3.8	9.5	17.1
80	0.1	0.2	0.5	0.9	1.8	3.8	9.4	16.8
81	0.1	0.2	0.5	0.9	1.9	3.8	9.2	16.4
82	0.1	0.2	0.5	0.9	1.9	3.8	9.1	16.1
83	0.1	0.2	0.5	0.9	1.9	3.9	9.0	15.9
84	0.1	0.2	0.5	0.9	1.9	3.9	9.0	15.6
85	0.1	0.2	0.5	1.0	1.9	4.0	9.0	15.4
86	0.1	0.2	0.5	1.0	2.0	4.0	9.0	15.3
87	0.1	0.2	0.5	1.0	2.0	4.0	8.9	15.1
88	0.1	0.2	0.5	1.0	2.0	4.1	8.9	14.9
89	0.1	0.2	0.5	1.0	2.0	4.1	8.9	14.7
90	0.1	0.3	0.5	1.0	2.0	4.2	8.9	14.7
91	0.1	0.3	0.5	1.0	2.1	4.2	8.9	14.6
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	14.6
93	0.1	0.3	0.5	1.0	2.1	4.3	8.9	14.5
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.5
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.4
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.4
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.4
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.4	1.0	1.7	2.4	3.3	4.8	6.4
3	0.2	0.4	1.0	1.8	2.5	3.5	5.1	6.7
4	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.1
5	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5
6	0.1	0.4	1.0	2.0	3.1	4.3	6.1	7.9
7	0.1	0.4	1.0	2.0	3.3	4.5	6.5	8.4
8	0.1	0.3	0.9	2.0	3.5	4.9	6.9	8.8
9	0.1	0.3	0.9	2.1	3.7	5.2	7.4	9.4
10	0.1	0.3	0.9	2.1	3.9	5.6	7.8	9.9
11	0.1	0.3	0.9	2.1	4.0	5.9	8.3	10.5
12	0.1	0.3	0.8	2.2	4.1	6.3	8.9	11.1
13	0.1	0.3	0.8	2.1	4.2	6.7	9.4	11.7
14	0.1	0.3	0.8	2.1	4.3	7.1	10.0	12.4
15	0.1	0.3	0.8	2.1	4.4	7.5	10.6	13.2
16	0.1	0.3	0.7	2.0	4.5	7.9	11.3	13.9
17	0.1	0.2	0.7	1.9	4.6	8.2	12.0	14.8
18	0.1	0.2	0.7	1.9	4.6	8.5	12.8	15.7
19	0.1	0.2	0.7	1.8	4.7	8.8	13.6	16.6
20	0.1	0.2	0.6	1.8	4.7	9.1	14.4	17.6
21	0.1	0.2	0.6	1.7	4.7	9.3	15.2	18.7
22	0.1	0.2	0.6	1.7	4.6	9.5	16.0	19.8
23	0.1	0.2	0.6	1.6	4.4	9.7	16.9	21.0
24	0.1	0.2	0.6	1.6	4.3	9.9	17.6	22.2
25	0.1	0.2	0.5	1.5	4.2	10.1	18.3	23.3
26	0.1	0.2	0.5	1.5	4.1	10.2	19.0	24.5
27	0.1	0.2	0.5	1.5	4.0	10.3	19.6	25.8
28	0.1	0.2	0.5	1.4	3.9	10.3	20.2	27.0
29	0.1	0.2	0.5	1.4	3.8	10.2	20.7	28.1
30	0.1	0.2	0.4	1.3	3.7	10.1	21.1	29.2
31	0.1	0.2	0.4	1.3	3.6	9.8	21.5	30.1
32	0.1	0.2	0.4	1.2	3.5	9.6	21.9	31.0
33	0.1	0.2	0.4	1.2	3.4	9.3	22.2	31.8
34	0.1	0.1	0.4	1.2	3.3	9.1	22.5	32.6
35	0.1	0.1	0.4	1.1	3.2	8.9	22.8	33.2
36	0.1	0.1	0.4	1.1	3.1	8.8	22.9	33.8
37	0.1	0.1	0.4	1.0	3.1	8.6	22.9	34.4
38	0.1	0.1	0.4	1.0	3.0	8.4	22.7	34.9
39	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.3
40	0.1	0.1	0.3	0.9	2.8	8.0	21.7	35.7
41	0.1	0.1	0.3	0.9	2.7	7.8	21.2	35.9
42	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.9
43	0.1	0.2	0.3	0.9	2.6	7.4	20.4	35.7
44	0.1	0.2	0.3	0.8	2.5	7.2	20.0	35.1
45	0.1	0.2	0.3	0.8	2.4	7.0	19.6	34.3
46	0.1	0.2	0.3	0.8	2.3	6.8	19.3	33.5
47	0.1	0.2	0.3	0.8	2.3	6.7	19.0	32.9
48	0.1	0.2	0.3	0.8	2.2	6.5	18.6	32.3
49	0.1	0.2	0.3	0.8	2.1	6.3	18.2	31.7
50	0.1	0.2	0.3	0.7	2.1	6.1	17.8	31.1
51	0.1	0.2	0.3	0.7	2.0	6.0	17.4	30.7
52	0.1	0.2	0.3	0.7	2.0	5.8	17.0	30.2
53	0.1	0.2	0.3	0.7	1.9	5.7	16.6	29.6
54	0.1	0.2	0.3	0.7	1.9	5.5	16.2	29.0
55	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.4
56	0.1	0.2	0.3	0.7	1.8	5.2	15.4	27.8
57	0.1	0.2	0.4	0.7	1.8	5.1	15.1	27.2
58	0.1	0.2	0.4	0.7	1.7	4.9	14.7	26.6
59	0.1	0.2	0.4	0.7	1.7	4.8	14.4	26.0
60	0.1	0.2	0.4	0.7	1.7	4.7	14.0	25.5
61	0.1	0.2	0.4	0.7	1.7	4.6	13.6	24.9
62	0.1	0.2	0.4	0.7	1.7	4.5	13.3	24.4
63	0.1	0.2	0.4	0.8	1.7	4.4	13.0	23.9
64	0.1	0.2	0.4	0.8	1.6	4.3	12.8	23.4
65	0.1	0.2	0.4	0.8	1.6	4.2	12.5	22.8
66	0.1	0.2	0.4	0.8	1.6	4.1	12.1	22.2
67	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.7
68	0.1	0.2	0.4	0.8	1.6	4.0	11.5	21.2
69	0.1	0.2	0.4	0.8	1.6	3.9	11.2	20.8
70	0.1	0.2	0.4	0.8	1.6	3.9	11.0	20.4
71	0.1	0.2	0.4	0.8	1.7	3.8	10.7	19.9
72	0.1	0.2	0.4	0.8	1.7	3.8	10.5	19.5
73	0.1	0.2	0.4	0.8	1.7	3.8	10.3	19.0
74	0.1	0.2	0.4	0.9	1.7	3.8	10.1	18.6
75	0.1	0.2	0.4	0.9	1.7	3.8	9.9	18.1
76	0.1	0.2	0.4	0.9	1.8	3.7	9.7	17.7
77	0.1	0.2	0.4	0.9	1.8	3.7	9.6	17.3
78	0.1	0.2	0.4	0.9	1.9	3.7	9.4	17.0
79	0.1	0.2	0.4	0.9	1.8	3.7	9.3	16.6
80	0.1	0.2	0.5	0.9	1.8	3.7	9.2	16.3
81	0.1	0.2	0.5	0.9	1.9	3.8	9.0	16.0
82	0.1	0.2	0.5	0.9	1.9	3.8	9.0	15.8
83	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.5
84	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.3
85	0.1	0.2	0.5	1.0	1.9	4.0	8.9	15.1
86	0.1	0.2	0.5	1.0	2.0	4.0	8.8	14.9
87	0.1	0.2	0.5	1.0	2.0	4.0	8.8	14.8
88	0.1	0.2	0.5	1.0	2.0	4.1	8.8	14.6
89	0.1	0.2	0.5	1.0	2.0	4.1	8.8	14.5
90	0.1	0.3	0.5	1.0	2.0	4.2	8.8	14.5
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	14.5
92	0.1	0.3	0.5	1.0	2.1	4.3	8.8	14.4
93	0.1	0.3	0.5	1.0	2.1	4.3	8.9	14.3
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.3
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.3
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.3
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.3
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.4
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.2	0.4	1.0	1.7	2.4	3.4	5.0	6.5
3	0.1	0.4	1.0	1.8	2.6	3.6	5.3	6.9
4	0.1	0.4	1.0	1.9	2.8	3.8	5.6	7.3
5	0.1	0.4	1.0	1.9	3.0	4.1	5.9	7.7
6	0.1	0.4	1.0	2.0	3.2	4.4	6.3	8.1
7	0.1	0.4	1.0	2.0	3.4	4.7	6.7	8.6
8	0.1	0.3	0.9	2.1	3.6	5.0	7.1	9.1
9	0.1	0.3	0.9	2.1	3.7	5.4	7.6	9.6
10	0.1	0.3	0.9	2.1	3.9	5.7	8.1	10.1
11	0.1	0.3	0.8	2.1	4.0	6.1	8.6	10.7
12	0.1	0.3	0.8	2.1	4.2	6.5	9.1	11.4
13	0.1	0.3	0.8	2.1	4.3	6.9	9.7	12.0
14	0.1	0.3	0.8	2.1	4.4	7.3	10.3	12.8
15	0.1	0.3	0.7	2.0	4.4	7.7	11.0	13.5
16	0.1	0.3	0.7	1.9	4.5	8.0	11.7	14.3
17	0.1	0.2	0.7	1.9	4.6	8.4	12.4	15.2
18	0.1	0.2	0.7	1.8	4.6	8.7	13.2	16.1
19	0.1	0.2	0.6	1.8	4.7	8.9	14.0	17.1
20	0.1	0.2	0.6	1.8	4.6	9.2	14.8	18.1
21	0.1	0.2	0.6	1.7	4.6	9.4	15.6	19.2
22	0.1	0.2	0.6	1.7	4.5	9.6	16.4	20.4
23	0.1	0.2	0.6	1.6	4.3	9.8	17.2	21.6
24	0.1	0.2	0.5	1.6	4.2	9.9	17.9	22.7
25	0.1	0.2	0.5	1.5	4.1	10.1	18.6	23.9
26	0.1	0.2	0.5	1.5	4.0	10.2	19.2	25.2
27	0.1	0.2	0.5	1.4	3.9	10.2	19.8	26.4
28	0.1	0.2	0.5	1.4	3.8	10.2	20.3	27.5
29	0.1	0.2	0.5	1.3	3.7	10.1	20.8	28.6
30	0.1	0.2	0.4	1.3	3.6	9.9	21.2	29.6
31	0.1	0.2	0.4	1.2	3.5	9.6	21.6	30.5
32	0.1	0.1	0.4	1.2	3.4	9.3	21.9	31.4
33	0.1	0.1	0.4	1.2	3.3	9.1	22.2	32.1
34	0.1	0.1	0.4	1.1	3.2	8.9	22.5	32.7
35	0.1	0.1	0.4	1.1	3.2	8.7	22.7	33.4
36	0.1	0.1	0.4	1.1	3.1	8.6	22.7	34.0
37	0.1	0.1	0.4	1.0	3.0	8.4	22.6	34.5
38	0.1	0.1	0.3	1.0	2.9	8.2	22.3	35.0
39	0.1	0.1	0.3	0.9	2.8	8.0	21.8	35.4
40	0.1	0.1	0.3	0.9	2.7	7.8	21.2	35.6
41	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.7
42	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.5
43	0.1	0.2	0.3	0.8	2.5	7.2	19.9	35.1
44	0.1	0.2	0.3	0.8	2.4	7.0	19.6	34.3
45	0.1	0.2	0.3	0.8	2.3	6.8	19.3	33.5
46	0.1	0.2	0.3	0.8	2.3	6.7	18.9	32.8
47	0.1	0.2	0.3	0.8	2.2	6.5	18.5	32.2
48	0.1	0.2	0.3	0.8	2.1	6.3	18.1	31.6
49	0.1	0.2	0.3	0.7	2.1	6.1	17.7	31.0
50	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.5
51	0.1	0.2	0.3	0.7	2.0	5.8	16.9	30.1
52	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.5
53	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.9
54	0.1	0.2	0.3	0.7	1.9	5.4	15.7	28.3
55	0.1	0.2	0.3	0.7	1.8	5.2	15.4	27.7
56	0.1	0.2	0.3	0.7	1.8	5.1	15.0	27.1
57	0.1	0.2	0.4	0.7	1.7	4.9	14.7	26.5
58	0.1	0.2	0.4	0.7	1.7	4.8	14.3	25.9
59	0.1	0.2	0.4	0.7	1.7	4.7	14.0	25.4
60	0.1	0.2	0.4	0.7	1.7	4.6	13.6	24.8
61	0.1	0.2	0.4	0.7	1.7	4.4	13.3	24.3
62	0.1	0.2	0.4	0.7	1.6	4.3	13.0	23.8
63	0.1	0.2	0.4	0.8	1.6	4.2	12.7	23.3
64	0.1	0.2	0.4	0.8	1.6	4.2	12.4	22.7
65	0.1	0.2	0.4	0.8	1.6	4.1	12.1	22.2
66	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.6
67	0.1	0.2	0.4	0.8	1.6	4.0	11.5	21.1
68	0.1	0.2	0.4	0.8	1.6	3.9	11.2	20.7
69	0.1	0.2	0.4	0.8	1.6	3.8	10.9	20.3
70	0.1	0.2	0.4	0.8	1.7	3.8	10.7	19.9
71	0.1	0.2	0.4	0.8	1.7	3.8	10.4	19.4
72	0.1	0.2	0.4	0.8	1.7	3.8	10.2	18.9
73	0.1	0.2	0.4	0.8	1.7	3.8	10.0	18.5
74	0.1	0.2	0.4	0.9	1.7	3.7	9.8	18.0
75	0.1	0.2	0.4	0.9	1.7	3.7	9.6	17.6
76	0.1	0.2	0.4	0.9	1.8	3.7	9.5	17.2
77	0.1	0.2	0.4	0.9	1.8	3.7	9.4	16.9
78	0.1	0.2	0.4	0.9	1.8	3.7	9.2	16.5
79	0.1	0.2	0.4	0.9	1.8	3.7	9.1	16.2
80	0.1	0.2	0.5	0.9	1.8	3.7	9.0	15.9
81	0.1	0.2	0.5	0.9	1.9	3.8	8.9	15.7
82	0.1	0.2	0.5	0.9	1.9	3.8	8.9	15.4
83	0.1	0.2	0.5	0.9	1.9	3.9	8.9	15.2
84	0.1	0.2	0.5	0.9	1.9	3.9	8.8	15.0
85	0.1	0.2	0.5	1.0	1.9	4.0	8.8	14.8
86	0.1	0.2	0.5	1.0	2.0	4.0	8.7	14.6
87	0.1	0.2	0.5	1.0	2.0	4.0	8.7	14.5
88	0.1	0.2	0.5	1.0	2.0	4.1	8.7	14.4
89	0.1	0.2	0.5	1.0	2.0	4.1	8.7	14.4
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	14.4
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	14.3
92	0.1	0.3	0.5	1.0	2.1	4.3	8.8	14.2
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.2
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.2
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.2
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.2
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	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
2	0.2	0.4	1.0	1.7	2.5	3.5	5.1	6.7
3	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.0
4	0.1	0.4	1.0	1.8	2.9	3.9	5.7	7.4
5	0.1	0.4	1.0	1.9	3.1	4.2	6.1	7.9
6	0.1	0.4	1.0	2.0	3.3	4.5	6.5	8.3
7	0.1	0.3	0.9	2.0	3.5	4.8	6.9	8.8
8	0.1	0.3	0.9	2.1	3.6	5.2	7.3	9.3
9	0.1	0.3	0.9	2.1	3.8	5.5	7.8	9.8
10	0.1	0.3	0.8	2.1	3.9	5.9	8.3	10.4
11	0.1	0.3	0.8	2.1	4.1	6.3	8.8	11.0
12	0.1	0.3	0.8	2.1	4.2	6.7	9.4	11.7
13	0.1	0.3	0.8	2.1	4.3	7.0	10.0	12.4
14	0.1	0.3	0.8	2.0	4.4	7.5	10.6	13.1
15	0.1	0.3	0.7	2.0	4.5	7.8	11.3	13.9
16	0.1	0.2	0.7	1.9	4.5	8.2	12.0	14.7
17	0.1	0.2	0.7	1.8	4.6	8.5	12.8	15.6
18	0.1	0.2	0.7	1.8	4.6	8.8	13.6	16.6
19	0.1	0.2	0.6	1.8	4.6	9.0	14.4	17.6
20	0.1	0.2	0.6	1.7	4.6	9.3	15.1	18.6
21	0.1	0.2	0.6	1.7	4.5	9.5	16.0	19.8
22	0.1	0.2	0.6	1.6	4.3	9.6	16.8	21.0
23	0.1	0.2	0.5	1.6	4.2	9.8	17.5	22.1
24	0.1	0.2	0.5	1.5	4.1	10.0	18.2	23.3
25	0.1	0.2	0.5	1.5	4.0	10.1	18.9	24.5
26	0.1	0.2	0.5	1.4	3.9	10.2	19.5	25.8
27	0.1	0.2	0.5	1.4	3.8	10.2	20.0	27.0
28	0.1	0.2	0.5	1.3	3.8	10.1	20.5	28.0
29	0.1	0.2	0.4	1.3	3.7	9.9	20.9	29.0
30	0.1	0.2	0.4	1.2	3.6	9.6	21.3	30.0
31	0.1	0.1	0.4	1.2	3.5	9.4	21.7	30.9
32	0.1	0.1	0.4	1.2	3.4	9.1	22.0	31.6
33	0.1	0.1	0.4	1.1	3.3	8.9	22.3	32.3
34	0.1	0.1	0.4	1.1	3.2	8.7	22.5	33.0
35	0.1	0.1	0.4	1.1	3.1	8.6	22.6	33.6
36	0.1	0.1	0.4	1.0	3.0	8.4	22.5	34.1
37	0.1	0.1	0.3	1.0	2.9	8.2	22.3	34.6
38	0.1	0.1	0.3	1.0	2.8	8.0	21.8	35.0
39	0.1	0.1	0.3	0.9	2.7	7.8	21.2	35.3
40	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.4
41	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.3
42	0.1	0.1	0.3	0.8	2.5	7.2	19.9	35.0
43	0.1	0.2	0.3	0.8	2.4	7.0	19.5	34.3
44	0.1	0.2	0.3	0.8	2.4	6.8	19.2	33.4
45	0.1	0.2	0.3	0.8	2.3	6.7	18.9	32.8
46	0.1	0.2	0.3	0.8	2.2	6.5	18.5	32.1
47	0.1	0.2	0.3	0.8	2.1	6.3	18.1	31.5
48	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.9
49	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.4
50	0.1	0.2	0.3	0.7	2.0	5.8	16.9	30.0
51	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.4
52	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.8
53	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.3
54	0.1	0.2	0.3	0.7	1.8	5.2	15.3	27.7
55	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.1
56	0.1	0.2	0.3	0.7	1.7	4.9	14.7	26.5
57	0.1	0.2	0.4	0.7	1.7	4.8	14.3	25.9
58	0.1	0.2	0.4	0.7	1.7	4.7	13.9	25.3
59	0.1	0.2	0.4	0.7	1.6	4.5	13.6	24.7
60	0.1	0.2	0.4	0.7	1.6	4.4	13.2	24.2
61	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.7
62	0.1	0.2	0.4	0.7	1.6	4.2	12.7	23.2
63	0.1	0.2	0.4	0.8	1.6	4.1	12.4	22.7
64	0.1	0.2	0.4	0.8	1.6	4.1	12.1	22.1
65	0.1	0.2	0.4	0.8	1.6	4.0	11.8	21.5
66	0.1	0.2	0.4	0.8	1.6	3.9	11.5	21.1
67	0.1	0.2	0.4	0.8	1.6	3.9	11.2	20.6
68	0.1	0.2	0.4	0.8	1.6	3.8	10.9	20.2
69	0.1	0.2	0.4	0.8	1.6	3.8	10.6	19.8
70	0.1	0.2	0.4	0.8	1.7	3.8	10.4	19.3
71	0.1	0.2	0.4	0.8	1.7	3.8	10.2	18.9
72	0.1	0.2	0.4	0.8	1.7	3.7	10.0	18.4
73	0.1	0.2	0.4	0.8	1.7	3.7	9.8	17.9
74	0.1	0.2	0.4	0.9	1.7	3.7	9.6	17.5
75	0.1	0.2	0.4	0.9	1.7	3.7	9.4	17.1
76	0.1	0.2	0.4	0.9	1.8	3.7	9.3	16.8
77	0.1	0.2	0.4	0.9	1.8	3.7	9.2	16.5
78	0.1	0.2	0.4	0.9	1.8	3.7	9.0	16.1
79	0.1	0.2	0.4	0.9	1.8	3.7	8.9	15.8
80	0.1	0.2	0.5	0.9	1.8	3.7	8.8	15.6
81	0.1	0.2	0.5	0.9	1.9	3.8	8.8	15.3
82	0.1	0.2	0.5	0.9	1.9	3.8	8.8	15.1
83	0.1	0.2	0.5	0.9	1.9	3.9	8.7	14.9
84	0.1	0.2	0.5	0.9	1.9	3.9	8.7	14.7
85	0.1	0.2	0.5	1.0	1.9	4.0	8.6	14.5
86	0.1	0.2	0.5	1.0	2.0	4.0	8.6	14.4
87	0.1	0.2	0.5	1.0	2.0	4.0	8.6	14.3
88	0.1	0.2	0.5	1.0	2.0	4.1	8.6	14.3
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	14.2
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	14.2
91	0.1	0.3	0.5	1.0	2.1	4.2	8.7	14.1
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	14.0
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	14.0
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	14.0
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	14.0
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.3
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.4	1.0	1.8	2.6	3.5	5.2	6.8
3	0.1	0.4	1.0	1.8	2.8	3.8	5.5	7.2
4	0.1	0.4	1.0	1.9	3.0	4.1	5.9	7.6
5	0.1	0.4	1.0	1.9	3.1	4.3	6.3	8.0
6	0.1	0.3	0.9	2.0	3.3	4.6	6.7	8.5
7	0.1	0.3	0.9	2.0	3.5	5.0	7.1	9.0
8	0.1	0.3	0.9	2.1	3.7	5.3	7.5	9.5
9	0.1	0.3	0.9	2.1	3.8	5.7	8.0	10.1
10	0.1	0.3	0.8	2.1	4.0	6.1	8.5	10.7
11	0.1	0.3	0.8	2.1	4.1	6.4	9.1	11.3
12	0.1	0.3	0.8	2.1	4.2	6.8	9.6	12.0
13	0.1	0.3	0.8	2.0	4.3	7.2	10.3	12.7
14	0.1	0.3	0.7	2.0	4.4	7.6	10.9	13.5
15	0.1	0.2	0.7	1.9	4.5	8.0	11.6	14.3
16	0.1	0.2	0.7	1.9	4.5	8.3	12.4	15.1
17	0.1	0.2	0.7	1.8	4.6	8.6	13.2	16.0
18	0.1	0.2	0.6	1.8	4.6	8.9	13.9	17.0
19	0.1	0.2	0.6	1.7	4.6	9.1	14.7	18.1
20	0.1	0.2	0.6	1.7	4.5	9.3	15.5	19.2
21	0.1	0.2	0.6	1.6	4.4	9.5	16.3	20.3
22	0.1	0.2	0.6	1.6	4.3	9.7	17.1	21.5
23	0.1	0.2	0.5	1.5	4.1	9.8	17.8	22.7
24	0.1	0.2	0.5	1.5	4.0	10.0	18.5	23.9
25	0.1	0.2	0.5	1.4	3.9	10.1	19.1	25.1
26	0.1	0.2	0.5	1.4	3.9	10.1	19.7	26.3
27	0.1	0.2	0.5	1.3	3.8	10.1	20.2	27.4
28	0.1	0.2	0.4	1.3	3.7	9.9	20.6	28.5
29	0.1	0.2	0.4	1.3	3.6	9.7	21.0	29.4
30	0.1	0.1	0.4	1.2	3.5	9.4	21.4	30.3
31	0.1	0.1	0.4	1.2	3.4	9.2	21.7	31.2
32	0.1	0.1	0.4	1.1	3.3	9.0	22.0	31.9
33	0.1	0.1	0.4	1.1	3.2	8.8	22.3	32.5
34	0.1	0.1	0.4	1.1	3.1	8.6	22.4	33.1
35	0.1	0.1	0.4	1.0	3.0	8.4	22.4	33.7
36	0.1	0.1	0.3	1.0	2.9	8.2	22.2	34.2
37	0.1	0.1	0.3	1.0	2.8	8.0	21.9	34.6
38	0.1	0.1	0.3	0.9	2.7	7.8	21.3	35.0
39	0.1	0.1	0.3	0.9	2.6	7.6	20.8	35.2
40	0.1	0.1	0.3	0.9	2.6	7.4	20.3	35.2
41	0.1	0.1	0.3	0.8	2.5	7.2	19.9	34.9
42	0.1	0.1	0.3	0.8	2.4	7.0	19.5	34.3
43	0.1	0.2	0.3	0.8	2.4	6.9	19.2	33.5
44	0.1	0.2	0.3	0.8	2.3	6.7	18.9	32.7
45	0.1	0.2	0.3	0.8	2.2	6.5	18.5	32.1
46	0.1	0.2	0.3	0.8	2.1	6.3	18.1	31.5
47	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.9
48	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.4
49	0.1	0.2	0.3	0.7	2.0	5.8	16.9	29.9
50	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.4

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.8
52	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.2
53	0.1	0.2	0.3	0.7	1.8	5.2	15.3	27.6
54	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0
55	0.1	0.2	0.3	0.7	1.7	4.9	14.6	26.4
56	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.8
57	0.1	0.2	0.4	0.7	1.7	4.7	13.9	25.3
58	0.1	0.2	0.4	0.7	1.6	4.5	13.6	24.7
59	0.1	0.2	0.4	0.7	1.6	4.4	13.2	24.1
60	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.6
61	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
62	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
63	0.1	0.2	0.4	0.8	1.6	4.1	12.0	22.1
64	0.1	0.2	0.4	0.8	1.6	4.0	11.7	21.5
65	0.1	0.2	0.4	0.8	1.6	3.9	11.4	21.0
66	0.1	0.2	0.4	0.8	1.6	3.9	11.1	20.5
67	0.1	0.2	0.4	0.8	1.6	3.8	10.8	20.1
68	0.1	0.2	0.4	0.8	1.6	3.8	10.6	19.7
69	0.1	0.2	0.4	0.8	1.6	3.7	10.4	19.3
70	0.1	0.2	0.4	0.8	1.7	3.7	10.1	18.8
71	0.1	0.2	0.4	0.8	1.7	3.7	9.9	18.3
72	0.1	0.2	0.4	0.8	1.7	3.7	9.7	17.9
73	0.1	0.2	0.4	0.8	1.7	3.7	9.5	17.5
74	0.1	0.2	0.4	0.9	1.7	3.6	9.4	17.1
75	0.1	0.2	0.4	0.9	1.7	3.6	9.2	16.7
76	0.1	0.2	0.4	0.9	1.8	3.6	9.1	16.4
77	0.1	0.2	0.4	0.9	1.8	3.6	9.0	16.1
78	0.1	0.2	0.4	0.9	1.8	3.7	8.9	15.8
79	0.1	0.2	0.4	0.9	1.8	3.7	8.8	15.5
80	0.1	0.2	0.5	0.9	1.8	3.8	8.7	15.2
81	0.1	0.2	0.5	0.9	1.9	3.8	8.7	15.0
82	0.1	0.2	0.5	0.9	1.9	3.8	8.7	14.8
83	0.1	0.2	0.5	0.9	1.9	3.9	8.6	14.6
84	0.1	0.2	0.5	0.9	1.9	3.9	8.6	14.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.6	14.3
86	0.1	0.2	0.5	1.0	2.0	4.0	8.5	14.2
87	0.1	0.2	0.5	1.0	2.0	4.0	8.6	14.1
88	0.1	0.2	0.5	1.0	2.0	4.1	8.6	14.1
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	14.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	14.0
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.9
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.9
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.9
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.9
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.0
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND 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
2	0.1	0.4	1.0	1.8	2.7	3.6	5.3	7.0
3	0.1	0.4	1.0	1.9	2.8	3.9	5.7	7.4
4	0.1	0.4	1.0	1.9	3.0	4.2	6.0	7.8
5	0.1	0.4	1.0	2.0	3.2	4.5	6.4	8.2
6	0.1	0.3	0.9	2.0	3.4	4.8	6.8	8.7
7	0.1	0.3	0.9	2.0	3.6	5.1	7.3	9.2
8	0.1	0.3	0.9	2.1	3.8	5.5	7.7	9.8
9	0.1	0.3	0.8	2.1	3.9	5.9	8.2	10.3
10	0.1	0.3	0.8	2.1	4.0	6.2	8.7	10.9
11	0.1	0.3	0.8	2.1	4.1	6.6	9.3	11.6
12	0.1	0.3	0.8	2.1	4.2	7.0	9.9	12.3
13	0.1	0.3	0.7	2.0	4.3	7.4	10.5	13.0
14	0.1	0.2	0.7	1.9	4.4	7.8	11.2	13.8
15	0.1	0.2	0.7	1.9	4.5	8.1	11.9	14.6
16	0.1	0.2	0.7	1.8	4.5	8.4	12.7	15.5
17	0.1	0.2	0.6	1.8	4.6	8.7	13.5	16.5
18	0.1	0.2	0.6	1.7	4.6	9.0	14.3	17.5
19	0.1	0.2	0.6	1.7	4.5	9.2	15.1	18.6
20	0.1	0.2	0.6	1.6	4.4	9.4	15.9	19.7
21	0.1	0.2	0.6	1.6	4.3	9.6	16.7	20.9
22	0.1	0.2	0.5	1.5	4.2	9.7	17.4	22.0
23	0.1	0.2	0.5	1.5	4.1	9.9	18.1	23.2
24	0.1	0.2	0.5	1.4	4.0	10.0	18.8	24.4
25	0.1	0.2	0.5	1.4	3.9	10.0	19.3	25.7
26	0.1	0.2	0.5	1.3	3.8	10.0	19.9	26.8
27	0.1	0.2	0.4	1.3	3.7	9.9	20.3	27.9
28	0.1	0.2	0.4	1.3	3.6	9.7	20.7	28.9
29	0.1	0.1	0.4	1.2	3.5	9.4	21.1	29.8
30	0.1	0.1	0.4	1.2	3.4	9.2	21.5	30.6
31	0.1	0.1	0.4	1.1	3.3	9.0	21.8	31.4
32	0.1	0.1	0.4	1.1	3.2	8.8	22.0	32.0
33	0.1	0.1	0.4	1.1	3.1	8.6	22.2	32.7
34	0.1	0.1	0.4	1.0	3.0	8.4	22.3	33.3
35	0.1	0.1	0.3	1.0	2.9	8.3	22.2	33.8
36	0.1	0.1	0.3	1.0	2.8	8.1	21.9	34.2
37	0.1	0.1	0.3	0.9	2.8	7.9	21.4	34.6
38	0.1	0.1	0.3	0.9	2.7	7.7	20.8	34.9
39	0.1	0.1	0.3	0.9	2.6	7.5	20.4	35.0
40	0.1	0.1	0.3	0.8	2.5	7.3	19.9	34.8
41	0.1	0.1	0.3	0.8	2.4	7.1	19.5	34.3
42	0.1	0.1	0.3	0.8	2.4	6.9	19.2	33.6
43	0.1	0.2	0.3	0.8	2.3	6.7	18.8	32.7
44	0.1	0.2	0.3	0.8	2.2	6.5	18.5	32.1
45	0.1	0.2	0.3	0.8	2.1	6.3	18.1	31.4
46	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.9
47	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.3
48	0.1	0.2	0.3	0.7	2.0	5.8	16.9	29.8
49	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.3
50	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.8
51	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.2
52	0.1	0.2	0.3	0.7	1.8	5.2	15.3	27.6
53	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0
54	0.1	0.2	0.3	0.7	1.7	4.9	14.6	26.4
55	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.8
56	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.2
57	0.1	0.2	0.4	0.7	1.6	4.5	13.6	24.7
58	0.1	0.2	0.4	0.7	1.6	4.4	13.2	24.1
59	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.6
60	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
61	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
62	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.0
63	0.1	0.2	0.4	0.8	1.6	4.0	11.7	21.5
64	0.1	0.2	0.4	0.8	1.6	3.9	11.4	21.0
65	0.1	0.2	0.4	0.8	1.6	3.8	11.1	20.5
66	0.1	0.2	0.4	0.8	1.6	3.8	10.8	20.1
67	0.1	0.2	0.4	0.8	1.6	3.7	10.6	19.7
68	0.1	0.2	0.4	0.8	1.6	3.7	10.3	19.2
69	0.1	0.2	0.4	0.8	1.6	3.7	10.1	18.8
70	0.1	0.2	0.4	0.8	1.7	3.7	9.9	18.3
71	0.1	0.2	0.4	0.8	1.7	3.7	9.7	17.9
72	0.1	0.2	0.4	0.8	1.7	3.6	9.5	17.4
73	0.1	0.2	0.4	0.8	1.7	3.6	9.3	17.0
74	0.1	0.2	0.4	0.9	1.7	3.6	9.2	16.7
75	0.1	0.2	0.4	0.9	1.7	3.6	9.1	16.3
76	0.1	0.2	0.4	0.9	1.8	3.6	8.9	16.0
77	0.1	0.2	0.4	0.9	1.8	3.6	8.8	15.7
78	0.1	0.2	0.4	0.9	1.8	3.7	8.7	15.4
79	0.1	0.2	0.4	0.9	1.8	3.7	8.7	15.2
80	0.1	0.2	0.5	0.9	1.8	3.8	8.6	14.9
81	0.1	0.2	0.5	0.9	1.9	3.8	8.6	14.7
82	0.1	0.2	0.5	0.9	1.9	3.8	8.6	14.6
83	0.1	0.2	0.5	0.9	1.9	3.9	8.5	14.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.5	14.2
85	0.1	0.2	0.5	1.0	1.9	4.0	8.5	14.1
86	0.1	0.2	0.5	1.0	2.0	4.0	8.5	14.0
87	0.1	0.2	0.5	1.0	2.0	4.0	8.5	14.0
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	14.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.9
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.8
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.8
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.8
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.8
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.0
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.4	1.0	1.8	2.7	3.7	5.5	7.1
3	0.1	0.4	1.0	1.9	2.9	4.0	5.8	7.5
4	0.1	0.4	1.0	1.9	3.1	4.3	6.2	8.0
5	0.1	0.3	0.9	2.0	3.3	4.6	6.6	8.4
6	0.1	0.3	0.9	2.0	3.5	4.9	7.0	9.9
7	0.1	0.3	0.9	2.0	3.7	5.3	7.4	9.4
8	0.1	0.3	0.8	2.1	3.8	5.6	7.9	10.0
9	0.1	0.3	0.8	2.1	3.9	6.0	8.4	10.6
10	0.1	0.3	0.8	2.1	4.1	6.4	9.0	11.2
11	0.1	0.3	0.8	2.1	4.2	6.8	9.5	11.9
12	0.1	0.3	0.7	2.0	4.3	7.2	10.2	12.6
13	0.1	0.3	0.7	1.9	4.4	7.6	10.8	13.3
14	0.1	0.2	0.7	1.9	4.4	7.9	11.5	14.2
15	0.1	0.2	0.7	1.8	4.5	8.2	12.3	15.0
16	0.1	0.2	0.7	1.8	4.5	8.5	13.1	15.9
17	0.1	0.2	0.6	1.7	4.6	8.8	13.8	16.9
18	0.1	0.2	0.6	1.7	4.5	9.0	14.6	17.9
19	0.1	0.2	0.6	1.7	4.5	9.2	15.4	19.0
20	0.1	0.2	0.6	1.6	4.3	9.4	16.2	20.2
21	0.1	0.2	0.5	1.6	4.2	9.6	17.0	21.4
22	0.1	0.2	0.5	1.5	4.1	9.7	17.7	22.5
23	0.1	0.2	0.5	1.5	4.0	9.9	18.4	23.7
24	0.1	0.2	0.5	1.4	3.9	10.0	19.0	25.0
25	0.1	0.2	0.5	1.4	3.8	10.0	19.5	26.2
26	0.1	0.2	0.5	1.3	3.7	9.9	20.0	27.3
27	0.1	0.2	0.4	1.3	3.6	9.8	20.4	28.3
28	0.1	0.1	0.4	1.2	3.5	9.5	20.8	29.2
29	0.1	0.1	0.4	1.2	3.4	9.2	21.2	30.1
30	0.1	0.1	0.4	1.1	3.3	9.0	21.5	30.9
31	0.1	0.1	0.4	1.1	3.2	8.8	21.8	31.6
32	0.1	0.1	0.4	1.1	3.1	8.6	22.0	32.2
33	0.1	0.1	0.4	1.0	3.0	8.4	22.1	32.8
34	0.1	0.1	0.3	1.0	2.9	8.3	22.1	33.4
35	0.1	0.1	0.3	1.0	2.9	8.1	21.9	33.8
36	0.1	0.1	0.3	0.9	2.8	7.9	21.5	34.3
37	0.1	0.1	0.3	0.9	2.7	7.7	20.8	34.6
38	0.1	0.1	0.3	0.9	2.6	7.5	20.4	34.7
39	0.1	0.1	0.3	0.9	2.5	7.3	19.9	34.7
40	0.1	0.1	0.3	0.8	2.4	7.1	19.5	34.3
41	0.1	0.1	0.3	0.8	2.4	6.9	19.2	33.7
42	0.1	0.1	0.3	0.8	2.3	6.7	18.8	32.8
43	0.1	0.2	0.3	0.8	2.2	6.5	18.5	32.1
44	0.1	0.2	0.3	0.8	2.2	6.4	18.1	31.5
45	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.8
46	0.1	0.2	0.3	0.7	2.0	6.0	17.3	30.3
47	0.1	0.2	0.3	0.7	2.0	5.8	16.9	29.8
48	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.3
49	0.1	0.2	0.3	0.7	1.9	5.5	16.1	28.8
50	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.2
51	0.1	0.2	0.3	0.7	1.8	5.2	15.3	27.6
52	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0
53	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.4
54	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.8
55	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.2
56	0.1	0.2	0.3	0.7	1.6	4.5	13.6	24.7
57	0.1	0.2	0.4	0.7	1.6	4.4	13.2	24.1
58	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.6
59	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
60	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
61	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.0
62	0.1	0.2	0.4	0.7	1.6	4.0	11.7	21.5
63	0.1	0.2	0.4	0.8	1.6	3.9	11.4	20.9
64	0.1	0.2	0.4	0.8	1.6	3.8	11.1	20.5
65	0.1	0.2	0.4	0.8	1.6	3.8	10.8	20.0
66	0.1	0.2	0.4	0.8	1.6	3.7	10.5	19.6
67	0.1	0.2	0.4	0.8	1.6	3.7	10.3	19.2
68	0.1	0.2	0.4	0.8	1.6	3.7	10.1	18.7
69	0.1	0.2	0.4	0.8	1.6	3.7	9.9	18.3
70	0.1	0.2	0.4	0.8	1.7	3.6	9.7	17.8
71	0.1	0.2	0.4	0.8	1.7	3.6	9.5	17.4
72	0.1	0.2	0.4	0.8	1.7	3.6	9.3	17.0
73	0.1	0.2	0.4	0.8	1.7	3.6	9.2	16.6
74	0.1	0.2	0.4	0.9	1.7	3.6	9.0	16.3
75	0.1	0.2	0.4	0.9	1.7	3.6	8.9	15.9
76	0.1	0.2	0.4	0.9	1.8	3.6	8.8	15.6
77	0.1	0.2	0.4	0.9	1.8	3.6	8.7	15.4
78	0.1	0.2	0.4	0.9	1.8	3.7	8.6	15.1
79	0.1	0.2	0.4	0.9	1.8	3.7	8.6	14.9
80	0.1	0.2	0.5	0.9	1.8	3.8	8.6	14.7
81	0.1	0.2	0.5	0.9	1.9	3.8	8.5	14.5
82	0.1	0.2	0.5	0.9	1.9	3.8	8.5	14.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.4	14.1
84	0.1	0.2	0.5	0.9	1.9	3.9	8.4	14.0
85	0.1	0.2	0.5	1.0	1.9	4.0	8.4	13.9
86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.9
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.8
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.7
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.7
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.7
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.7
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.4	1.0	1.8	2.8	3.8	5.6	7.3
3	0.1	0.4	1.0	1.9	3.0	4.1	6.0	7.7
4	0.1	0.4	0.9	1.9	3.2	4.4	6.3	8.1
5	0.1	0.3	0.9	2.0	3.4	4.7	6.7	8.6
6	0.1	0.3	0.9	2.0	3.5	5.0	7.2	9.1
7	0.1	0.3	0.9	2.0	3.7	5.4	7.6	9.6
8	0.1	0.3	0.8	2.1	3.9	5.8	8.1	10.2
9	0.1	0.3	0.8	2.1	4.0	6.2	8.6	10.8
10	0.1	0.3	0.8	2.1	4.1	6.5	9.2	11.5
11	0.1	0.3	0.8	2.0	4.2	6.9	9.8	12.2
12	0.1	0.3	0.7	2.0	4.3	7.3	10.4	12.9
13	0.1	0.2	0.7	1.9	4.4	7.7	11.1	13.7
14	0.1	0.2	0.7	1.9	4.4	8.0	11.8	14.5
15	0.1	0.2	0.7	1.8	4.5	8.3	12.6	15.4
16	0.1	0.2	0.6	1.8	4.5	8.6	13.4	16.3
17	0.1	0.2	0.6	1.7	4.5	8.9	14.2	17.3
18	0.1	0.2	0.6	1.7	4.5	9.1	14.9	18.4
19	0.1	0.2	0.6	1.6	4.4	9.3	15.8	19.6
20	0.1	0.2	0.5	1.6	4.2	9.5	16.6	20.8
21	0.1	0.2	0.5	1.5	4.1	9.6	17.3	21.9
22	0.1	0.2	0.5	1.5	4.0	9.8	18.0	23.0
23	0.1	0.2	0.5	1.4	3.9	9.9	18.6	24.3
24	0.1	0.2	0.5	1.4	3.8	9.9	19.2	25.5
25	0.1	0.2	0.5	1.3	3.7	9.9	19.7	26.6
26	0.1	0.2	0.4	1.3	3.6	9.8	20.1	27.7
27	0.1	0.1	0.4	1.2	3.5	9.6	20.5	28.7
28	0.1	0.1	0.4	1.2	3.4	9.3	20.9	29.6
29	0.1	0.1	0.4	1.2	3.3	9.1	21.3	30.4
30	0.1	0.1	0.4	1.1	3.2	8.8	21.6	31.1
31	0.1	0.1	0.4	1.1	3.1	8.6	21.8	31.8
32	0.1	0.1	0.4	1.1	3.0	8.5	22.0	32.4
33	0.1	0.1	0.3	1.0	3.0	8.3	22.0	32.9
34	0.1	0.1	0.3	1.0	2.9	8.1	21.9	33.4
35	0.1	0.1	0.3	0.9	2.8	7.9	21.5	33.9
36	0.1	0.1	0.3	0.9	2.7	7.7	21.0	34.3
37	0.1	0.1	0.3	0.9	2.6	7.5	20.4	34.5
38	0.1	0.1	0.3	0.9	2.5	7.3	20.0	34.5
39	0.1	0.1	0.3	0.8	2.5	7.1	19.6	34.3
40	0.1	0.1	0.3	0.8	2.4	6.9	19.2	33.7
41	0.1	0.1	0.3	0.8	2.3	6.7	18.8	32.9
42	0.1	0.1	0.3	0.8	2.2	6.6	18.5	32.1
43	0.1	0.2	0.3	0.8	2.2	6.4	18.1	31.5
44	0.1	0.2	0.3	0.7	2.1	6.2	17.7	30.9
45	0.1	0.2	0.3	0.7	2.0	6.0	17.4	30.3
46	0.1	0.2	0.3	0.7	2.0	5.9	17.0	29.8
47	0.1	0.2	0.3	0.7	1.9	5.7	16.5	29.3
48	0.1	0.2	0.3	0.7	1.9	5.5	16.2	28.8
49	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.2
50	0.1	0.2	0.3	0.7	1.8	5.3	15.4	27.6
51	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0
52	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.4
53	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.8
54	0.1	0.2	0.3	0.7	1.6	4.7	14.0	25.2
55	0.1	0.2	0.3	0.7	1.6	4.5	13.6	24.7
56	0.1	0.2	0.3	0.7	1.6	4.4	13.2	24.1
57	0.1	0.2	0.4	0.7	1.6	4.3	12.9	23.6
58	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.0
59	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
60	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.0
61	0.1	0.2	0.4	0.7	1.6	4.0	11.7	21.5
62	0.1	0.2	0.4	0.7	1.6	3.9	11.4	20.9
63	0.1	0.2	0.4	0.8	1.5	3.8	11.1	20.4
64	0.1	0.2	0.4	0.8	1.5	3.8	10.8	20.0
65	0.1	0.2	0.4	0.8	1.6	3.7	10.5	19.6
66	0.1	0.2	0.4	0.8	1.6	3.7	10.3	19.2
67	0.1	0.2	0.4	0.8	1.6	3.6	10.1	18.7
68	0.1	0.2	0.4	0.8	1.6	3.6	9.8	18.3
69	0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.8
70	0.1	0.2	0.4	0.8	1.7	3.6	9.4	17.4
71	0.1	0.2	0.4	0.8	1.7	3.6	9.3	16.9
72	0.1	0.2	0.4	0.8	1.7	3.6	9.1	16.6
73	0.1	0.2	0.4	0.8	1.7	3.6	9.0	16.2
74	0.1	0.2	0.4	0.9	1.7	3.6	8.9	15.9
75	0.1	0.2	0.4	0.9	1.7	3.6	8.7	15.6
76	0.1	0.2	0.4	0.9	1.8	3.6	8.6	15.3
77	0.1	0.2	0.4	0.9	1.8	3.6	8.5	15.0
78	0.1	0.2	0.4	0.9	1.8	3.7	8.5	14.8
79	0.1	0.2	0.4	0.9	1.8	3.7	8.5	14.6
80	0.1	0.2	0.5	0.9	1.8	3.8	8.5	14.4
81	0.1	0.2	0.5	0.9	1.9	3.8	8.4	14.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.4	14.1
83	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.9
84	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.8
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	13.8
86	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.7
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.6
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.6
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.6
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.6
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.6
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.4	1.0	1.8	2.7	3.7	5.4	7.0
2	0.1	0.4	1.0	1.9	2.9	3.9	5.7	7.4
3	0.1	0.4	1.0	1.9	3.1	4.2	6.1	7.8
4	0.1	0.3	0.9	1.9	3.2	4.5	6.5	8.3
5	0.1	0.3	0.9	2.0	3.4	4.8	6.9	8.8
6	0.1	0.3	0.9	2.0	3.6	5.2	7.3	9.3
7	0.1	0.3	0.8	2.1	3.8	5.5	7.8	9.9
8	0.1	0.3	0.8	2.1	3.9	5.9	8.3	10.4
9	0.1	0.3	0.8	2.1	4.0	6.3	8.9	11.1
10	0.1	0.3	0.8	2.1	4.1	6.7	9.4	11.7
11	0.1	0.3	0.7	2.0	4.2	7.1	10.0	12.4
12	0.1	0.3	0.7	1.9	4.3	7.5	10.7	13.2
13	0.1	0.2	0.7	1.9	4.4	7.8	11.4	14.0
14	0.1	0.2	0.7	1.8	4.4	8.1	12.1	14.9
15	0.1	0.2	0.6	1.8	4.5	8.4	12.9	15.8
16	0.1	0.2	0.6	1.7	4.5	8.7	13.7	16.7
17	0.1	0.2	0.6	1.7	4.5	8.9	14.5	17.8
18	0.1	0.2	0.6	1.6	4.4	9.1	15.3	18.9
19	0.1	0.2	0.6	1.6	4.3	9.3	16.1	20.1
20	0.1	0.2	0.5	1.5	4.1	9.5	16.9	21.2
21	0.1	0.2	0.5	1.5	4.0	9.6	17.6	22.4
22	0.1	0.2	0.5	1.4	3.9	9.8	18.2	23.6
23	0.1	0.2	0.5	1.4	3.8	9.9	18.8	24.8
24	0.1	0.2	0.5	1.3	3.7	9.9	19.4	26.0
25	0.1	0.2	0.4	1.3	3.7	9.8	19.8	27.1
26	0.1	0.2	0.4	1.3	3.6	9.6	20.2	28.1
27	0.1	0.1	0.4	1.2	3.5	9.4	20.6	29.0
28	0.1	0.1	0.4	1.2	3.4	9.1	21.0	29.9
29	0.1	0.1	0.4	1.1	3.3	8.9	21.3	30.6
30	0.1	0.1	0.4	1.1	3.2	8.7	21.6	31.3
31	0.1	0.1	0.4	1.1	3.1	8.5	21.8	31.9
32	0.1	0.1	0.4	1.0	3.0	8.3	21.9	32.5
33	0.1	0.1	0.3	1.0	2.9	8.1	21.8	33.0
34	0.1	0.1	0.3	1.0	2.8	7.9	21.6	33.5
35	0.1	0.1	0.3	0.9	2.7	7.8	21.1	33.9
36	0.1	0.1	0.3	0.9	2.6	7.6	20.5	34.2
37	0.1	0.1	0.3	0.9	2.5	7.4	20.0	34.3
38	0.1	0.1	0.3	0.8	2.5	7.2	19.6	34.2
39	0.1	0.1	0.3	0.8	2.4	7.0	19.2	33.8
40	0.1	0.1	0.3	0.8	2.3	6.8	18.8	33.1
41	0.1	0.1	0.3	0.8	2.3	6.6	18.5	32.2
42	0.1	0.1	0.3	0.8	2.2	6.4	18.2	31.5
43	0.1	0.2	0.3	0.7	2.1	6.2	17.8	30.9
44	0.1	0.2	0.3	0.7	2.0	6.1	17.4	30.3
45	0.1	0.2	0.3	0.7	2.0	5.9	17.0	29.8
46	0.1	0.2	0.3	0.7	1.9	5.7	16.6	29.3
47	0.1	0.2	0.3	0.7	1.9	5.5	16.2	28.8
48	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.2
49	0.1	0.2	0.3	0.7	1.8	5.3	15.4	27.6
50	0.1	0.2	0.3	0.7	1.7	5.1	15.0	27.0

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.5
52	0.1	0.2	0.3	0.7	1.7	4.8	14.3	25.9
53	0.1	0.2	0.3	0.7	1.6	4.7	14.0	25.3
54	0.1	0.2	0.3	0.7	1.6	4.6	13.6	24.7
55	0.1	0.2	0.3	0.7	1.6	4.4	13.3	24.1
56	0.1	0.2	0.3	0.7	1.6	4.3	12.9	23.6
57	0.1	0.2	0.4	0.7	1.6	4.2	12.6	23.1
58	0.1	0.2	0.4	0.7	1.6	4.1	12.3	22.6
59	0.1	0.2	0.4	0.7	1.6	4.0	12.0	22.1
60	0.1	0.2	0.4	0.7	1.5	3.9	11.7	21.5
61	0.1	0.2	0.4	0.7	1.5	3.9	11.4	21.0
62	0.1	0.2	0.4	0.7	1.5	3.8	11.1	20.4
63	0.1	0.2	0.4	0.8	1.5	3.8	10.8	20.0
64	0.1	0.2	0.4	0.8	1.5	3.7	10.5	19.6
65	0.1	0.2	0.4	0.8	1.6	3.6	10.3	19.2
66	0.1	0.2	0.4	0.8	1.6	3.6	10.1	18.7
67	0.1	0.2	0.4	0.8	1.6	3.6	9.8	18.3
68	0.1	0.2	0.4	0.8	1.6	3.6	9.6	17.8
69	0.1	0.2	0.4	0.8	1.6	3.6	9.4	17.4
70	0.1	0.2	0.4	0.8	1.7	3.5	9.3	16.9
71	0.1	0.2	0.4	0.8	1.7	3.5	9.1	16.5
72	0.1	0.2	0.4	0.8	1.7	3.5	9.0	16.2
73	0.1	0.2	0.4	0.8	1.7	3.5	8.8	15.9
74	0.1	0.2	0.4	0.9	1.7	3.5	8.7	15.6
75	0.1	0.2	0.4	0.9	1.7	3.6	8.6	15.3
76	0.1	0.2	0.4	0.9	1.8	3.6	8.5	15.0
77	0.1	0.2	0.4	0.9	1.8	3.6	8.4	14.8
78	0.1	0.2	0.4	0.9	1.8	3.7	8.4	14.5
79	0.1	0.2	0.4	0.9	1.8	3.7	8.4	14.4
80	0.1	0.2	0.5	0.9	1.8	3.8	8.4	14.2
81	0.1	0.2	0.5	0.9	1.9	3.8	8.3	14.0
82	0.1	0.2	0.5	0.9	1.9	3.8	8.3	13.8
83	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.7
84	0.1	0.2	0.5	0.9	1.9	3.9	8.3	13.7
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	13.7
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.6
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.6
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.5
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.5
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.5
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.5
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.6
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

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

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

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

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.4	0.9	1.8	2.9	4.0	5.8	7.4
2	0.1	0.3	0.9	1.9	3.1	4.2	6.1	7.9
3	0.1	0.3	0.9	1.9	3.3	4.5	6.5	8.3
4	0.1	0.3	0.9	2.0	3.4	4.9	6.9	8.8
5	0.1	0.3	0.8	2.0	3.6	5.2	7.4	9.4
6	0.1	0.3	0.8	2.0	3.8	5.6	7.9	9.9
7	0.1	0.3	0.8	2.0	3.9	6.0	8.4	10.5
8	0.1	0.3	0.8	2.0	4.0	6.3	8.9	11.1
9	0.1	0.3	0.7	2.0	4.1	6.7	9.5	11.8
10	0.1	0.3	0.7	1.9	4.2	7.1	10.1	12.5
11	0.1	0.2	0.7	1.9	4.3	7.5	10.8	13.3
12	0.1	0.2	0.7	1.8	4.3	7.8	11.5	14.1
13	0.1	0.2	0.6	1.8	4.4	8.1	12.3	15.0
14	0.1	0.2	0.6	1.7	4.4	8.4	13.1	15.9
15	0.1	0.2	0.6	1.7	4.4	8.7	13.8	16.9
16	0.1	0.2	0.6	1.6	4.4	8.9	14.6	18.0
17	0.1	0.2	0.6	1.6	4.3	9.1	15.4	19.1
18	0.1	0.2	0.5	1.5	4.1	9.3	16.2	20.3
19	0.1	0.2	0.5	1.5	4.0	9.4	16.9	21.4
20	0.1	0.2	0.5	1.4	3.9	9.5	17.6	22.6
21	0.1	0.2	0.5	1.4	3.9	9.7	18.2	23.8
22	0.1	0.2	0.5	1.3	3.7	9.7	18.8	25.0
23	0.1	0.2	0.4	1.3	3.6	9.7	19.3	26.1
24	0.1	0.2	0.4	1.3	3.5	9.6	19.7	27.2
25	0.1	0.1	0.4	1.2	3.4	9.3	20.1	28.1
26	0.1	0.1	0.4	1.2	3.3	9.1	20.5	29.0
27	0.1	0.1	0.4	1.1	3.3	8.8	20.8	29.8
28	0.1	0.1	0.4	1.1	3.2	8.6	21.1	30.5
29	0.1	0.1	0.4	1.1	3.1	8.4	21.4	31.2
30	0.1	0.1	0.3	1.0	3.0	8.2	21.5	31.8
31	0.1	0.1	0.3	1.0	2.9	8.1	21.5	32.3
32	0.1	0.1	0.3	0.9	2.8	7.9	21.3	32.8
33	0.1	0.1	0.3	0.9	2.7	7.7	20.9	33.2
34	0.1	0.1	0.3	0.9	2.6	7.5	20.3	33.6
35	0.1	0.1	0.3	0.9	2.5	7.3	19.8	33.7
36	0.1	0.1	0.3	0.8	2.4	7.1	19.4	33.6
37	0.1	0.1	0.3	0.8	2.4	6.9	19.0	33.3
38	0.1	0.1	0.3	0.8	2.3	6.7	18.6	32.7
39	0.1	0.1	0.3	0.8	2.2	6.5	18.3	31.8
40	0.1	0.1	0.3	0.7	2.2	6.3	18.0	31.1
41	0.1	0.1	0.3	0.7	2.1	6.2	17.6	30.5
42	0.1	0.1	0.3	0.7	2.0	6.0	17.2	29.9
43	0.1	0.2	0.3	0.7	2.0	5.8	16.8	29.3
44	0.1	0.2	0.3	0.7	1.9	5.6	16.4	28.8
45	0.1	0.2	0.3	0.7	1.8	5.5	16.0	28.4
46	0.1	0.2	0.3	0.7	1.8	5.3	15.6	27.8
47	0.1	0.2	0.3	0.7	1.8	5.2	15.2	27.2
48	0.1	0.2	0.3	0.7	1.7	5.1	14.8	26.6
49	0.1	0.2	0.3	0.7	1.7	4.9	14.4	26.1
50	0.1	0.2	0.3	0.7	1.6	4.8	14.1	25.5
51	0.1	0.2	0.3	0.7	1.6	4.6	13.8	24.9
52	0.1	0.2	0.3	0.7	1.6	4.5	13.4	24.3
53	0.1	0.2	0.3	0.7	1.6	4.4	13.0	23.7
54	0.1	0.2	0.3	0.7	1.5	4.2	12.7	23.2
55	0.1	0.2	0.3	0.7	1.5	4.1	12.4	22.7
56	0.1	0.2	0.3	0.7	1.5	4.0	12.1	22.2
57	0.1	0.2	0.4	0.7	1.5	4.0	11.8	21.7
58	0.1	0.2	0.4	0.7	1.5	3.9	11.5	21.1
59	0.1	0.2	0.4	0.7	1.5	3.8	11.2	20.6
60	0.1	0.2	0.4	0.7	1.5	3.7	10.9	20.1
61	0.1	0.2	0.4	0.7	1.5	3.7	10.6	19.6
62	0.1	0.2	0.4	0.7	1.5	3.6	10.3	19.2
63	0.1	0.2	0.4	0.8	1.5	3.6	10.1	18.8
64	0.1	0.2	0.4	0.8	1.5	3.5	9.8	18.3
65	0.1	0.2	0.4	0.8	1.6	3.5	9.6	17.9
66	0.1	0.2	0.4	0.8	1.6	3.5	9.4	17.4
67	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.0
68	0.1	0.2	0.4	0.8	1.6	3.5	9.1	16.6
69	0.1	0.2	0.4	0.8	1.6	3.5	8.9	16.2
70	0.1	0.2	0.4	0.8	1.7	3.5	8.8	15.9
71	0.1	0.2	0.4	0.8	1.7	3.5	8.6	15.5
72	0.1	0.2	0.4	0.8	1.7	3.5	8.5	15.2
73	0.1	0.2	0.4	0.9	1.7	3.5	8.4	14.9
74	0.1	0.2	0.4	0.9	1.7	3.5	8.3	14.7
75	0.1	0.2	0.4	0.9	1.7	3.6	8.3	14.4
76	0.1	0.2	0.4	0.9	1.8	3.6	8.3	14.2
77	0.1	0.2	0.4	0.9	1.8	3.6	8.2	14.0
78	0.1	0.2	0.4	0.9	1.8	3.7	8.2	13.9
79	0.1	0.2	0.4	0.9	1.8	3.7	8.1	13.7
80	0.1	0.2	0.5	0.9	1.8	3.8	8.1	13.5
81	0.1	0.2	0.5	0.9	1.9	3.8	8.1	13.4
82	0.1	0.2	0.5	0.9	1.9	3.8	8.1	13.4
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.3
85	0.1	0.2	0.5	1.0	1.9	4.0	8.2	13.3
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.2
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.2
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.2
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.2
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

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

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.3	0.9	1.9	3.2	4.5	6.4	8.2
3	0.1	0.3	0.9	1.9	3.4	4.8	6.8	8.7
4	0.1	0.3	0.8	2.0	3.5	5.1	7.2	9.2
5	0.1	0.3	0.8	2.0	3.7	5.5	7.7	9.7
6	0.1	0.3	0.8	2.0	3.8	5.9	8.2	10.3
7	0.1	0.3	0.8	2.0	4.0	6.2	8.8	11.0
8	0.1	0.3	0.7	2.0	4.1	6.6	9.3	11.6
9	0.1	0.3	0.7	1.9	4.1	7.0	10.0	12.3
10	0.1	0.2	0.7	1.9	4.2	7.4	10.6	13.1
11	0.1	0.2	0.7	1.8	4.3	7.7	11.3	13.9
12	0.1	0.2	0.6	1.8	4.3	8.0	12.1	14.8
13	0.1	0.2	0.6	1.7	4.4	8.3	12.9	15.7
14	0.1	0.2	0.6	1.7	4.4	8.6	13.6	16.7
15	0.1	0.2	0.6	1.6	4.4	8.8	14.4	17.7
16	0.1	0.2	0.6	1.6	4.3	9.0	15.2	18.8
17	0.1	0.2	0.5	1.5	4.1	9.2	16.0	20.0
18	0.1	0.2	0.5	1.5	4.0	9.3	16.7	21.1
19	0.1	0.2	0.5	1.4	3.9	9.4	17.4	22.3
20	0.1	0.2	0.5	1.4	3.8	9.6	18.0	23.5
21	0.1	0.2	0.5	1.3	3.7	9.6	18.6	24.7
22	0.1	0.2	0.4	1.3	3.6	9.6	19.1	25.8
23	0.1	0.1	0.4	1.2	3.5	9.5	19.5	26.9
24	0.1	0.1	0.4	1.2	3.4	9.3	19.9	27.8
25	0.1	0.1	0.4	1.2	3.3	9.0	20.3	28.7
26	0.1	0.1	0.4	1.1	3.2	8.7	20.6	29.5
27	0.1	0.1	0.4	1.1	3.1	8.5	20.9	30.2
28	0.1	0.1	0.4	1.0	3.0	8.3	21.1	30.8
29	0.1	0.1	0.3	1.0	2.9	8.1	21.3	31.4
30	0.1	0.1	0.3	1.0	2.8	8.0	21.3	32.0
31	0.1	0.1	0.3	0.9	2.8	7.8	21.1	32.4
32	0.1	0.1	0.3	0.9	2.7	7.6	20.7	32.9
33	0.1	0.1	0.3	0.9	2.6	7.4	20.1	33.2
34	0.1	0.1	0.3	0.8	2.5	7.2	19.6	33.4
35	0.1	0.1	0.3	0.8	2.4	7.0	19.2	33.3
36	0.1	0.1	0.3	0.8	2.3	6.8	18.8	32.9
37	0.1	0.1	0.3	0.8	2.3	6.6	18.4	32.3
38	0.1	0.1	0.3	0.8	2.2	6.4	18.0	31.4
39	0.1	0.1	0.3	0.7	2.1	6.2	17.7	30.7
40	0.1	0.1	0.3	0.7	2.1	6.1	17.3	30.1
41	0.1	0.1	0.3	0.7	2.0	5.9	16.9	29.5
42	0.1	0.1	0.3	0.7	1.9	5.7	16.5	29.0
43	0.1	0.2	0.3	0.7	1.9	5.6	16.1	28.5
44	0.1	0.2	0.3	0.7	1.8	5.4	15.7	28.0
45	0.1	0.2	0.3	0.7	1.8	5.3	15.3	27.4
46	0.1	0.2	0.3	0.7	1.7	5.1	15.0	26.8
47	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.2
48	0.1	0.2	0.3	0.7	1.6	4.8	14.2	25.7
49	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.1
50	0.1	0.2	0.3	0.7	1.6	4.5	13.6	24.5

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.6	4.4	13.2	23.9
52	0.1	0.2	0.3	0.7	1.5	4.3	12.8	23.3
53	0.1	0.2	0.3	0.7	1.5	4.2	12.5	22.8
54	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.3
55	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.8
56	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.3
57	0.1	0.2	0.4	0.7	1.5	3.8	11.3	20.7
58	0.1	0.2	0.4	0.7	1.5	3.7	11.0	20.2
59	0.1	0.2	0.4	0.7	1.5	3.7	10.7	19.7
60	0.1	0.2	0.4	0.7	1.5	3.6	10.4	19.2
61	0.1	0.2	0.4	0.7	1.5	3.6	10.1	18.9
62	0.1	0.2	0.4	0.7	1.5	3.5	9.9	18.4
63	0.1	0.2	0.4	0.8	1.5	3.5	9.7	18.0
64	0.1	0.2	0.4	0.8	1.5	3.5	9.5	17.5
65	0.1	0.2	0.4	0.8	1.6	3.5	9.2	17.1
66	0.1	0.2	0.4	0.8	1.6	3.4	9.1	16.7
67	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.2
68	0.1	0.2	0.4	0.8	1.6	3.4	8.7	15.9
69	0.1	0.2	0.4	0.8	1.6	3.4	8.6	15.6
70	0.1	0.2	0.4	0.8	1.7	3.4	8.5	15.2
71	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9
72	0.1	0.2	0.4	0.8	1.7	3.4	8.3	14.6
73	0.1	0.2	0.4	0.8	1.7	3.5	8.2	14.4
74	0.1	0.2	0.4	0.9	1.7	3.5	8.1	14.2
75	0.1	0.2	0.4	0.9	1.7	3.6	8.1	14.0
76	0.1	0.2	0.4	0.9	1.8	3.6	8.1	13.8
77	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.6
78	0.1	0.2	0.4	0.9	1.8	3.7	8.0	13.4
79	0.1	0.2	0.4	0.9	1.8	3.7	8.0	13.3
80	0.1	0.2	0.5	0.9	1.8	3.8	8.0	13.3
81	0.1	0.2	0.5	0.9	1.9	3.8	8.0	13.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	13.2
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.1
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	13.0
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	13.0
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	13.0
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.2
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.9	1.9	3.1	4.2	6.1	7.9
2	0.1	0.3	0.9	1.9	3.3	4.6	6.5	8.3
3	0.1	0.3	0.9	2.0	3.4	4.9	6.9	8.8
4	0.1	0.3	0.8	2.0	3.6	5.2	7.4	9.4
5	0.1	0.3	0.8	2.0	3.7	5.6	7.9	9.9
6	0.1	0.3	0.8	2.0	3.9	6.0	8.4	10.5
7	0.1	0.3	0.8	2.0	4.0	6.3	9.0	11.2
8	0.1	0.3	0.7	2.0	4.1	6.7	9.5	11.9
9	0.1	0.2	0.7	1.9	4.2	7.1	10.2	12.6
10	0.1	0.2	0.7	1.8	4.2	7.5	10.9	13.4
11	0.1	0.2	0.7	1.8	4.3	7.8	11.6	14.2
12	0.1	0.2	0.6	1.7	4.4	8.1	12.3	15.1
13	0.1	0.2	0.6	1.7	4.4	8.4	13.1	16.0
14	0.1	0.2	0.6	1.6	4.4	8.6	13.9	17.0
15	0.1	0.2	0.6	1.6	4.3	8.8	14.7	18.1
16	0.1	0.2	0.5	1.5	4.2	9.0	15.5	19.3
17	0.1	0.2	0.5	1.5	4.0	9.2	16.2	20.4
18	0.1	0.2	0.5	1.4	3.9	9.3	16.9	21.6
19	0.1	0.2	0.5	1.4	3.8	9.5	17.6	22.7
20	0.1	0.2	0.5	1.3	3.7	9.6	18.2	23.9
21	0.1	0.2	0.4	1.3	3.6	9.6	18.7	25.1
22	0.1	0.1	0.4	1.3	3.6	9.5	19.2	26.2
23	0.1	0.1	0.4	1.2	3.5	9.3	19.6	27.2
24	0.1	0.1	0.4	1.2	3.4	9.1	20.0	28.1
25	0.1	0.1	0.4	1.1	3.3	8.8	20.3	29.0
26	0.1	0.1	0.4	1.1	3.2	8.6	20.6	29.7
27	0.1	0.1	0.4	1.1	3.1	8.4	20.9	30.4
28	0.1	0.1	0.3	1.0	3.0	8.2	21.1	31.0
29	0.1	0.1	0.3	1.0	2.9	8.0	21.2	31.5
30	0.1	0.1	0.3	1.0	2.8	7.9	21.1	32.0
31	0.1	0.1	0.3	0.9	2.7	7.7	20.8	32.5
32	0.1	0.1	0.3	0.9	2.6	7.5	20.3	32.9
33	0.1	0.1	0.3	0.9	2.5	7.3	19.7	33.1
34	0.1	0.1	0.3	0.8	2.4	7.1	19.3	33.2
35	0.1	0.1	0.3	0.8	2.4	6.9	18.9	33.0
36	0.1	0.1	0.3	0.8	2.3	6.7	18.5	32.5
37	0.1	0.1	0.3	0.8	2.2	6.5	18.1	31.7
38	0.1	0.1	0.3	0.7	2.2	6.3	17.8	30.9
39	0.1	0.1	0.3	0.7	2.1	6.1	17.4	30.2
40	0.1	0.1	0.3	0.7	2.0	6.0	17.0	29.6
41	0.1	0.1	0.3	0.7	1.9	5.8	16.6	29.0
42	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.5
43	0.1	0.2	0.3	0.7	1.8	5.4	15.8	28.1
44	0.1	0.2	0.3	0.7	1.8	5.3	15.4	27.5
45	0.1	0.2	0.3	0.7	1.7	5.1	15.0	26.9
46	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.4
47	0.1	0.2	0.3	0.7	1.7	4.9	14.3	25.8
48	0.1	0.2	0.3	0.7	1.6	4.7	13.9	25.2
49	0.1	0.2	0.3	0.7	1.6	4.6	13.6	24.6
50	0.1	0.2	0.3	0.7	1.6	4.4	13.3	24.0

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.5	4.3	12.9	23.4
52	0.1	0.2	0.3	0.7	1.5	4.2	12.5	22.9
53	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.4
54	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.9
55	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.4
56	0.1	0.2	0.3	0.7	1.5	3.8	11.4	20.8
57	0.1	0.2	0.4	0.7	1.5	3.7	11.1	20.3
58	0.1	0.2	0.4	0.7	1.5	3.7	10.8	19.8
59	0.1	0.2	0.4	0.7	1.5	3.6	10.5	19.3
60	0.1	0.2	0.4	0.7	1.5	3.6	10.2	18.9
61	0.1	0.2	0.4	0.7	1.5	3.5	9.9	18.5
62	0.1	0.2	0.4	0.7	1.5	3.5	9.7	18.1
63	0.1	0.2	0.4	0.8	1.5	3.5	9.5	17.6
64	0.1	0.2	0.4	0.8	1.5	3.5	9.3	17.2
65	0.1	0.2	0.4	0.8	1.6	3.4	9.1	16.7
66	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.3
67	0.1	0.2	0.4	0.8	1.6	3.4	8.7	15.9
68	0.1	0.2	0.4	0.8	1.6	3.4	8.6	15.6
69	0.1	0.2	0.4	0.8	1.6	3.4	8.5	15.3
70	0.1	0.2	0.4	0.8	1.7	3.4	8.4	14.9
71	0.1	0.2	0.4	0.8	1.7	3.4	8.2	14.7
72	0.1	0.2	0.4	0.8	1.7	3.4	8.2	14.4
73	0.1	0.2	0.4	0.8	1.7	3.5	8.1	14.2
74	0.1	0.2	0.4	0.9	1.7	3.5	8.1	13.9
75	0.1	0.2	0.4	0.9	1.7	3.6	8.1	13.8
76	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.6
77	0.1	0.2	0.4	0.9	1.8	3.6	8.0	13.4
78	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.3
79	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.2
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.2
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	13.1
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	13.1
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	13.0
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.9
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.9
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	13.0
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.9	1.9	3.1	4.3	6.2	8.0
2	0.1	0.3	0.9	1.9	3.3	4.7	6.7	8.5
3	0.1	0.3	0.8	2.0	3.5	5.0	7.1	9.0
4	0.1	0.3	0.8	2.0	3.6	5.4	7.6	9.6
5	0.1	0.3	0.8	2.0	3.8	5.7	8.1	10.1
6	0.1	0.3	0.8	2.0	3.9	6.1	8.6	10.7
7	0.1	0.3	0.7	2.0	4.0	6.5	9.2	11.4
8	0.1	0.3	0.7	1.9	4.1	6.9	9.8	12.1
9	0.1	0.2	0.7	1.9	4.2	7.2	10.4	12.9
10	0.1	0.2	0.7	1.8	4.2	7.6	11.1	13.7
11	0.1	0.2	0.6	1.8	4.3	7.9	11.8	14.5
12	0.1	0.2	0.6	1.7	4.3	8.2	12.6	15.4
13	0.1	0.2	0.6	1.7	4.4	8.5	13.4	16.4
14	0.1	0.2	0.6	1.6	4.3	8.7	14.1	17.4
15	0.1	0.2	0.6	1.6	4.2	8.9	14.9	18.5
16	0.1	0.2	0.5	1.5	4.1	9.0	15.8	19.7
17	0.1	0.2	0.5	1.5	4.0	9.2	16.5	20.8
18	0.1	0.2	0.5	1.4	3.9	9.3	17.2	22.0
19	0.1	0.2	0.5	1.4	3.8	9.5	17.8	23.1
20	0.1	0.2	0.5	1.3	3.7	9.5	18.4	24.4
21	0.1	0.2	0.4	1.3	3.6	9.5	18.9	25.5
22	0.1	0.1	0.4	1.2	3.5	9.4	19.3	26.5
23	0.1	0.1	0.4	1.2	3.4	9.2	19.7	27.5
24	0.1	0.1	0.4	1.2	3.3	8.9	20.1	28.4
25	0.1	0.1	0.4	1.1	3.2	8.7	20.4	29.2
26	0.1	0.1	0.4	1.1	3.1	8.4	20.7	29.9
27	0.1	0.1	0.4	1.0	3.0	8.2	20.9	30.5
28	0.1	0.1	0.3	1.0	2.9	8.1	21.1	31.1
29	0.1	0.1	0.3	1.0	2.8	7.9	21.0	31.6
30	0.1	0.1	0.3	0.9	2.7	7.7	20.9	32.1
31	0.1	0.1	0.3	0.9	2.6	7.5	20.5	32.5
32	0.1	0.1	0.3	0.9	2.6	7.3	19.9	32.9
33	0.1	0.1	0.3	0.8	2.5	7.1	19.4	33.0
34	0.1	0.1	0.3	0.9	2.4	6.9	19.0	32.9
35	0.1	0.1	0.3	0.8	2.3	6.7	18.6	32.6
36	0.1	0.1	0.3	0.8	2.3	6.5	18.2	32.0
37	0.1	0.1	0.3	0.7	2.2	6.4	17.8	31.1
38	0.1	0.1	0.3	0.7	2.1	6.2	17.5	30.4
39	0.1	0.1	0.3	0.7	2.0	6.0	17.1	29.8
40	0.1	0.1	0.3	0.7	2.0	5.8	16.7	29.2
41	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.6
42	0.1	0.1	0.3	0.7	1.8	5.5	15.9	28.1
43	0.1	0.2	0.3	0.7	1.8	5.3	15.5	27.6
44	0.1	0.2	0.3	0.7	1.7	5.2	15.1	27.1
45	0.1	0.2	0.3	0.7	1.7	5.1	14.8	26.5
46	0.1	0.2	0.3	0.7	1.7	4.9	14.4	25.9
47	0.1	0.2	0.3	0.7	1.6	4.8	14.0	25.3
48	0.1	0.2	0.3	0.7	1.6	4.6	13.7	24.7
49	0.1	0.2	0.3	0.7	1.6	4.5	13.4	24.1
50	0.1	0.2	0.3	0.7	1.5	4.3	13.0	23.6
51	0.1	0.2	0.3	0.7	1.5	4.2	12.6	23.0
52	0.1	0.2	0.3	0.7	1.5	4.1	12.3	22.5
53	0.1	0.2	0.3	0.7	1.5	4.0	12.0	21.9
54	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.5
55	0.1	0.2	0.3	0.7	1.5	3.8	11.4	21.0
56	0.1	0.2	0.3	0.7	1.5	3.7	11.1	20.4
57	0.1	0.2	0.4	0.7	1.5	3.7	10.8	19.9
58	0.1	0.2	0.4	0.7	1.5	3.6	10.5	19.4
59	0.1	0.2	0.4	0.7	1.5	3.6	10.2	18.9
60	0.1	0.2	0.4	0.7	1.5	3.5	10.0	18.6
61	0.1	0.2	0.4	0.7	1.5	3.5	9.7	18.1
62	0.1	0.2	0.4	0.7	1.5	3.4	9.5	17.7
63	0.1	0.2	0.4	0.8	1.5	3.4	9.3	17.2
64	0.1	0.2	0.4	0.8	1.5	3.4	9.1	16.8
65	0.1	0.2	0.4	0.8	1.6	3.4	8.9	16.4
66	0.1	0.2	0.4	0.8	1.6	3.4	8.7	16.0
67	0.1	0.2	0.4	0.8	1.6	3.4	8.6	15.6
68	0.1	0.2	0.4	0.8	1.6	3.4	8.5	15.3
69	0.1	0.2	0.4	0.8	1.6	3.4	8.4	15.0
70	0.1	0.2	0.4	0.8	1.7	3.4	8.2	14.7
71	0.1	0.2	0.4	0.8	1.7	3.4	8.1	14.4
72	0.1	0.2	0.4	0.8	1.7	3.5	8.1	14.2
73	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.9
74	0.1	0.2	0.4	0.9	1.7	3.5	8.0	13.7
75	0.1	0.2	0.4	0.9	1.7	3.6	8.0	13.6
76	0.1	0.2	0.4	0.9	1.8	3.6	7.9	13.4
77	0.1	0.2	0.4	0.9	1.8	3.6	7.9	13.2
78	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.1
79	0.1	0.2	0.4	0.9	1.8	3.7	7.9	13.1
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	13.0
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.9
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.9
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.9
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.9
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.9
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.3	0.9	1.9	3.4	4.8	6.8	8.7
3	0.1	0.3	0.8	2.0	3.5	5.1	7.2	9.2
4	0.1	0.3	0.8	2.0	3.7	5.5	7.7	9.7
5	0.1	0.3	0.8	2.0	3.8	5.9	8.2	10.3
6	0.1	0.3	0.8	2.0	3.9	6.2	8.8	11.0
7	0.1	0.3	0.7	2.0	4.0	6.6	9.3	11.6
8	0.1	0.2	0.7	1.9	4.1	7.0	10.0	12.3
9	0.1	0.2	0.7	1.8	4.2	7.4	10.6	13.1
10	0.1	0.2	0.7	1.8	4.2	7.7	11.3	13.9
11	0.1	0.2	0.6	1.7	4.3	8.0	12.1	14.8
12	0.1	0.2	0.6	1.7	4.3	8.3	12.9	15.7
13	0.1	0.2	0.6	1.6	4.3	8.5	13.6	16.7
14	0.1	0.2	0.6	1.6	4.3	8.7	14.4	17.8
15	0.1	0.2	0.5	1.5	4.2	8.9	15.2	18.9
16	0.1	0.2	0.5	1.5	4.0	9.1	16.0	20.1
17	0.1	0.2	0.5	1.4	3.9	9.2	16.7	21.2
18	0.1	0.2	0.5	1.4	3.8	9.4	17.4	22.4
19	0.1	0.2	0.5	1.3	3.7	9.5	17.9	23.6
20	0.1	0.2	0.4	1.3	3.6	9.5	18.5	24.8
21	0.1	0.1	0.4	1.3	3.5	9.4	19.0	25.8
22	0.1	0.1	0.4	1.2	3.4	9.3	19.4	26.8
23	0.1	0.1	0.4	1.2	3.3	9.0	19.8	27.8
24	0.1	0.1	0.4	1.1	3.2	8.7	20.1	28.6
25	0.1	0.1	0.4	1.1	3.1	8.5	20.4	29.4
26	0.1	0.1	0.4	1.0	3.0	8.3	20.7	30.0
27	0.1	0.1	0.3	1.0	2.9	8.1	20.9	30.6
28	0.1	0.1	0.3	1.0	2.8	8.0	21.0	31.2
29	0.1	0.1	0.3	0.9	2.8	7.8	20.9	31.7
30	0.1	0.1	0.3	0.9	2.7	7.6	20.6	32.1
31	0.1	0.1	0.3	0.9	2.6	7.4	20.1	32.5
32	0.1	0.1	0.3	0.8	2.5	7.2	19.5	32.8
33	0.1	0.1	0.3	0.8	2.4	7.0	19.1	32.8
34	0.1	0.1	0.3	0.8	2.3	6.8	18.7	32.6
35	0.1	0.1	0.3	0.8	2.3	6.6	18.3	32.2
36	0.1	0.1	0.3	0.7	2.2	6.4	17.9	31.4
37	0.1	0.1	0.3	0.7	2.1	6.2	17.6	30.6
38	0.1	0.1	0.3	0.7	2.1	6.1	17.2	29.9
39	0.1	0.1	0.3	0.7	2.0	5.9	16.8	29.3
40	0.1	0.1	0.3	0.7	1.9	5.7	16.4	28.7
41	0.1	0.1	0.3	0.7	1.9	5.5	16.0	28.2
42	0.1	0.1	0.3	0.7	1.8	5.4	15.6	27.8
43	0.1	0.2	0.3	0.7	1.8	5.2	15.2	27.2
44	0.1	0.2	0.3	0.7	1.7	5.1	14.9	26.6
45	0.1	0.2	0.3	0.7	1.7	4.9	14.5	26.0
46	0.1	0.2	0.3	0.7	1.6	4.8	14.1	25.5
47	0.1	0.2	0.3	0.6	1.6	4.7	13.8	24.9
48	0.1	0.2	0.3	0.6	1.6	4.5	13.4	24.3
49	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.7
50	0.1	0.2	0.3	0.7	1.5	4.2	12.7	23.1

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.5	4.1	12.4	22.6
52	0.1	0.2	0.3	0.7	1.5	4.0	12.0	22.0
53	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.6
54	0.1	0.2	0.3	0.7	1.5	3.8	11.5	21.1
55	0.1	0.2	0.3	0.7	1.5	3.8	11.2	20.5
56	0.1	0.2	0.3	0.7	1.5	3.7	10.9	20.0
57	0.1	0.2	0.4	0.7	1.5	3.6	10.6	19.5
58	0.1	0.2	0.4	0.7	1.5	3.6	10.3	19.0
59	0.1	0.2	0.4	0.7	1.5	3.5	10.0	18.6
60	0.1	0.2	0.4	0.7	1.5	3.5	9.8	18.2
61	0.1	0.2	0.4	0.7	1.5	3.4	9.5	17.8
62	0.1	0.2	0.4	0.7	1.5	3.4	9.3	17.3
63	0.1	0.2	0.4	0.8	1.5	3.4	9.1	16.9
64	0.1	0.2	0.4	0.8	1.5	3.4	8.9	16.4
65	0.1	0.2	0.4	0.8	1.6	3.4	8.8	16.0
66	0.1	0.2	0.4	0.8	1.6	3.3	8.6	15.6
67	0.1	0.2	0.4	0.8	1.6	3.3	8.5	15.3
68	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.0
69	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.7
70	0.1	0.2	0.4	0.8	1.7	3.4	8.1	14.4
71	0.1	0.2	0.4	0.8	1.7	3.4	8.0	14.2
72	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.9
73	0.1	0.2	0.4	0.8	1.7	3.5	8.0	13.7
74	0.1	0.2	0.4	0.9	1.7	3.5	8.0	13.6
75	0.1	0.2	0.4	0.9	1.7	3.6	7.9	13.4
76	0.1	0.2	0.4	0.9	1.8	3.6	7.9	13.2
77	0.1	0.2	0.4	0.9	1.8	3.6	7.8	13.1
78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	13.0
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	13.0
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	13.0
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.9
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.8
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.8
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.8
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.8
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.3	0.8	1.9	3.4	4.9	6.9	8.8
3	0.1	0.3	0.8	2.0	3.6	5.2	7.4	9.3
4	0.1	0.3	0.8	2.0	3.7	5.6	7.9	9.9
5	0.1	0.3	0.8	2.0	3.8	6.0	8.4	10.5
6	0.1	0.3	0.7	2.0	3.9	6.3	8.9	11.2
7	0.1	0.3	0.7	1.9	4.0	6.7	9.5	11.9
8	0.1	0.2	0.7	1.9	4.1	7.1	10.2	12.6
9	0.1	0.2	0.7	1.8	4.2	7.5	10.9	13.4
10	0.1	0.2	0.6	1.7	4.3	7.8	11.6	14.2
11	0.1	0.2	0.6	1.7	4.3	8.1	12.4	15.1
12	0.1	0.2	0.6	1.7	4.3	8.3	13.1	16.1
13	0.1	0.2	0.6	1.6	4.3	8.6	13.9	17.1
14	0.1	0.2	0.6	1.6	4.2	8.8	14.7	18.2
15	0.1	0.2	0.5	1.5	4.1	8.9	15.5	19.3
16	0.1	0.2	0.5	1.5	4.0	9.1	16.2	20.5
17	0.1	0.2	0.5	1.4	3.8	9.2	16.9	21.6
18	0.1	0.2	0.5	1.4	3.7	9.4	17.5	22.8
19	0.1	0.2	0.5	1.3	3.6	9.4	18.1	24.0
20	0.1	0.2	0.4	1.3	3.6	9.4	18.6	25.1
21	0.1	0.1	0.4	1.2	3.5	9.3	19.1	26.2
22	0.1	0.1	0.4	1.2	3.4	9.1	19.5	27.1
23	0.1	0.1	0.4	1.1	3.3	8.8	19.8	28.0
24	0.1	0.1	0.4	1.1	3.2	8.6	20.2	28.8
25	0.1	0.1	0.4	1.1	3.1	8.4	20.5	29.6
26	0.1	0.1	0.3	1.0	3.0	8.2	20.7	30.2
27	0.1	0.1	0.3	1.0	2.9	8.0	20.9	30.8
28	0.1	0.1	0.3	1.0	2.8	7.8	20.9	31.3
29	0.1	0.1	0.3	0.9	2.7	7.7	20.7	31.8
30	0.1	0.1	0.3	0.9	2.6	7.5	20.3	32.2
31	0.1	0.1	0.3	0.9	2.5	7.3	19.7	32.5
32	0.1	0.1	0.3	0.8	2.4	7.1	19.2	32.7
33	0.1	0.1	0.3	0.8	2.4	6.9	18.8	32.6
34	0.1	0.1	0.3	0.8	2.3	6.7	18.4	32.3
35	0.1	0.1	0.3	0.8	2.2	6.5	18.0	31.7
36	0.1	0.1	0.3	0.7	2.2	6.3	17.7	30.9
37	0.1	0.1	0.3	0.7	2.1	6.1	17.3	30.1
38	0.1	0.1	0.3	0.7	2.0	5.9	17.0	29.5
39	0.1	0.1	0.3	0.7	1.9	5.8	16.6	28.9
40	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.3
41	0.1	0.1	0.3	0.7	1.8	5.4	15.8	27.9
42	0.1	0.1	0.3	0.7	1.8	5.3	15.4	27.3
43	0.1	0.2	0.3	0.7	1.7	5.1	15.0	26.8
44	0.1	0.2	0.3	0.7	1.7	5.0	14.6	26.2
45	0.1	0.2	0.3	0.6	1.6	4.8	14.2	25.6
46	0.1	0.2	0.3	0.6	1.6	4.7	13.9	25.0
47	0.1	0.2	0.3	0.6	1.6	4.6	13.5	24.4
48	0.1	0.2	0.3	0.6	1.5	4.4	13.2	23.8
49	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.3
50	0.1	0.2	0.3	0.7	1.5	4.2	12.5	22.7
51	0.1	0.2	0.3	0.7	1.5	4.1	12.1	22.2
52	0.1	0.2	0.3	0.7	1.5	4.0	11.8	21.7
53	0.1	0.2	0.3	0.7	1.5	3.9	11.5	21.2
54	0.1	0.2	0.3	0.7	1.5	3.8	11.3	20.7
55	0.1	0.2	0.3	0.7	1.5	3.7	11.0	20.1
56	0.1	0.2	0.3	0.7	1.5	3.6	10.7	19.6
57	0.1	0.2	0.4	0.7	1.5	3.6	10.4	19.1
58	0.1	0.2	0.4	0.7	1.5	3.5	10.1	18.7
59	0.1	0.2	0.4	0.7	1.5	3.5	9.8	18.3
60	0.1	0.2	0.4	0.7	1.5	3.4	9.6	17.9
61	0.1	0.2	0.4	0.7	1.5	3.4	9.4	17.4
62	0.1	0.2	0.4	0.7	1.5	3.4	9.2	17.0
63	0.1	0.2	0.4	0.8	1.5	3.4	9.0	16.5
64	0.1	0.2	0.4	0.8	1.5	3.3	8.8	16.1
65	0.1	0.2	0.4	0.8	1.6	3.3	8.6	15.7
66	0.1	0.2	0.4	0.8	1.6	3.3	8.5	15.4
67	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.0
68	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.7
69	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.4
70	0.1	0.2	0.4	0.8	1.7	3.4	8.0	14.2
71	0.1	0.2	0.4	0.8	1.7	3.4	8.0	13.9
72	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.7
73	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.5
74	0.1	0.2	0.4	0.9	1.7	3.5	7.9	13.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.9	13.2
76	0.1	0.2	0.4	0.9	1.8	3.6	7.8	13.0
77	0.1	0.2	0.4	0.9	1.8	3.6	7.8	12.9
78	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.9
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.8
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.8
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.7
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.7
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.7
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.7
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.7
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.9	1.9	3.3	4.6	6.6	8.5
2	0.1	0.3	0.9	1.9	3.5	5.0	7.1	9.0
3	0.1	0.3	0.8	2.0	3.6	5.3	7.5	9.5
4	0.1	0.3	0.8	2.0	3.7	5.7	8.0	10.1
5	0.1	0.3	0.8	2.0	3.9	6.1	8.6	10.7
6	0.1	0.3	0.7	2.0	4.0	6.4	9.1	11.4
7	0.1	0.2	0.7	1.9	4.1	6.8	9.7	12.1
8	0.1	0.2	0.7	1.8	4.1	7.2	10.4	12.8
9	0.1	0.2	0.7	1.8	4.2	7.6	11.1	13.6
TEMPERATURE, F 10	0.1	0.2	0.6	1.7	4.3	7.9	11.8	14.5
TEMPERATURE, F 11	0.1	0.2	0.6	1.7	4.3	8.1	12.6	15.4
TEMPERATURE, F 12	0.1	0.2	0.6	1.6	4.3	8.4	13.4	16.4
TEMPERATURE, F 13	0.1	0.2	0.6	1.6	4.3	8.6	14.1	17.4
TEMPERATURE, F 14	0.1	0.2	0.5	1.5	4.1	8.8	14.9	18.5
TEMPERATURE, F 15	0.1	0.2	0.5	1.5	4.0	9.0	15.7	19.7
TEMPERATURE, F 16	0.1	0.2	0.5	1.4	3.9	9.1	16.4	20.8
TEMPERATURE, F 17	0.1	0.2	0.5	1.4	3.8	9.2	17.1	22.0
TEMPERATURE, F 18	0.1	0.2	0.5	1.3	3.7	9.4	17.7	23.2
TEMPERATURE, F 19	0.1	0.2	0.4	1.3	3.6	9.4	18.3	24.4
TEMPERATURE, F 20	0.1	0.1	0.4	1.2	3.5	9.4	18.7	25.5
TEMPERATURE, F 21	0.1	0.1	0.4	1.2	3.4	9.2	19.1	26.5
22	0.1	0.1	0.4	1.2	3.3	9.0	19.5	27.4
TEMPERATURE, F 23	0.1	0.1	0.4	1.1	3.2	8.7	19.9	28.3
TEMPERATURE, F 24	0.1	0.1	0.4	1.1	3.1	8.5	20.2	29.0
TEMPERATURE, F 25	0.1	0.1	0.4	1.0	3.0	8.3	20.5	29.7
TEMPERATURE, F 26	0.1	0.1	0.3	1.0	2.9	8.1	20.7	30.3
TEMPERATURE, F 27	0.1	0.1	0.3	1.0	2.8	7.9	20.8	30.9
TEMPERATURE, F 28	0.1	0.1	0.3	0.9	2.7	7.7	20.7	31.4
TEMPERATURE, F 29	0.1	0.1	0.3	0.9	2.7	7.5	20.4	31.8
30	0.1	0.1	0.3	0.9	2.6	7.3	20.0	32.2
F 31	0.1	0.1	0.3	0.8	2.5	7.1	19.4	32.5
A 32	0.1	0.1	0.3	0.8	2.4	6.9	18.9	32.5
H 33	0.1	0.1	0.3	0.8	2.3	6.7	18.5	32.3
R 34	0.1	0.1	0.3	0.8	2.3	6.5	18.1	31.9
E 35	0.1	0.1	0.3	0.7	2.2	6.4	17.8	31.1
N 36	0.1	0.1	0.3	0.7	2.1	6.2	17.4	30.3
H 37	0.1	0.1	0.3	0.7	2.0	6.0	17.1	29.6
E 38	0.1	0.1	0.3	0.7	2.0	5.8	16.7	29.0
I 39	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.4
T 40	0.1	0.1	0.3	0.7	1.8	5.5	15.9	27.9
41	0.1	0.1	0.3	0.7	1.8	5.3	15.5	27.5
42	0.1	0.1	0.3	0.7	1.7	5.2	15.1	26.9
43	0.1	0.2	0.3	0.7	1.7	5.0	14.7	26.3
44	0.1	0.2	0.3	0.6	1.7	4.9	14.3	25.8
45	0.1	0.2	0.3	0.6	1.6	4.7	14.0	25.2
46	0.1	0.2	0.3	0.6	1.6	4.6	13.6	24.6
47	0.1	0.2	0.3	0.6	1.6	4.5	13.3	24.0
48	0.1	0.2	0.3	0.6	1.5	4.3	12.9	23.4
49	0.1	0.2	0.3	0.7	1.5	4.2	12.6	22.9
50	0.1	0.2	0.3	0.7	1.5	4.1	12.2	22.3

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.8
52	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.3
53	0.1	0.2	0.3	0.7	1.5	3.8	11.3	20.8
54	0.1	0.2	0.3	0.7	1.4	3.7	11.0	20.3
55	0.1	0.2	0.3	0.7	1.4	3.6	10.7	19.7
56	0.1	0.2	0.3	0.7	1.4	3.6	10.5	19.2
57	0.1	0.2	0.4	0.7	1.4	3.5	10.2	18.8
58	0.1	0.2	0.4	0.7	1.4	3.5	9.9	18.4
59	0.1	0.2	0.4	0.7	1.5	3.4	9.6	18.0
TEMPERATURE, F 60	0.1	0.2	0.4	0.7	1.5	3.4	9.4	17.5
TEMPERATURE, F 61	0.1	0.2	0.4	0.7	1.5	3.4	9.2	17.1
TEMPERATURE, F 62	0.1	0.2	0.4	0.7	1.5	3.4	9.0	16.6
TEMPERATURE, F 63	0.1	0.2	0.4	0.8	1.5	3.3	8.8	16.2
TEMPERATURE, F 64	0.1	0.2	0.4	0.8	1.5	3.3	8.6	15.8
TEMPERATURE, F 65	0.1	0.2	0.4	0.8	1.6	3.3	8.5	15.4
TEMPERATURE, F 66	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.1
TEMPERATURE, F 67	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.8
TEMPERATURE, F 68	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.5
TEMPERATURE, F 69	0.1	0.2	0.4	0.8	1.6	3.3	8.0	14.2
TEMPERATURE, F 70	0.1	0.2	0.4	0.8	1.7	3.4	7.9	14.0
TEMPERATURE, F 71	0.1	0.2	0.4	0.8	1.7	3.4	7.9	13.7
72	0.1	0.2	0.4	0.8	1.7	3.5	7.9	13.5
TEMPERATURE, F 73	0.1	0.2	0.4	0.9	1.7	3.5	7.8	13.4
TEMPERATURE, F 74	0.1	0.2	0.4	0.9	1.7	3.5	7.8	13.2
TEMPERATURE, F 75	0.1	0.2	0.4	0.9	1.7	3.6	7.8	13.0
TEMPERATURE, F 76	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.9
TEMPERATURE, F 77	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.8
TEMPERATURE, F 78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.8
TEMPERATURE, F 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.8
80	0.1	0.2	0.5	0.9	1.8	3.8	7.8	12.7
F 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.6
A 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.6
H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.6
R 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.6
E 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
N 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.7
H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
T 90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.8	1.9	3.3	4.7	6.8	9.6
2	0.1	0.3	0.8	1.9	3.5	5.1	7.2	9.1
3	0.1	0.3	0.8	2.0	3.6	5.4	7.7	9.7
4	0.1	0.3	0.8	2.0	3.8	5.8	8.2	10.3
5	0.1	0.3	0.7	2.0	3.9	6.2	8.7	10.9
6	0.1	0.3	0.7	1.9	4.0	6.6	9.3	11.6
7	0.1	0.2	0.7	1.9	4.1	7.0	9.9	12.3
8	0.1	0.2	0.7	1.9	4.1	7.3	10.6	13.1
9	0.1	0.2	0.6	1.7	4.2	7.6	11.3	13.9
10	0.1	0.2	0.6	1.7	4.3	7.9	12.1	14.8
11	0.1	0.2	0.6	1.7	4.3	8.2	12.9	15.7
12	0.1	0.2	0.6	1.6	4.3	8.4	13.6	16.7
13	0.1	0.2	0.6	1.6	4.2	8.6	14.4	17.8
14	0.1	0.2	0.5	1.5	4.1	8.8	15.2	18.9
15	0.1	0.2	0.5	1.5	3.9	9.0	15.9	20.1
16	0.1	0.2	0.5	1.4	3.8	9.1	16.6	21.2
17	0.1	0.2	0.5	1.4	3.7	9.3	17.3	22.4
18	0.1	0.2	0.5	1.3	3.6	9.3	17.9	23.6
19	0.1	0.1	0.4	1.3	3.5	9.3	18.4	24.7
20	0.1	0.1	0.4	1.2	3.5	9.3	18.8	25.8
21	0.1	0.1	0.4	1.2	3.4	9.1	19.2	26.7
22	0.1	0.1	0.4	1.1	3.3	8.8	19.6	27.6
23	0.1	0.1	0.4	1.1	3.2	8.6	19.9	28.5
24	0.1	0.1	0.4	1.1	3.1	8.3	20.2	29.2
25	0.1	0.1	0.3	1.0	3.0	8.1	20.5	29.8
26	0.1	0.1	0.3	1.0	2.9	8.0	20.7	30.4
27	0.1	0.1	0.3	1.0	2.8	7.8	20.7	31.0
28	0.1	0.1	0.3	0.9	2.7	7.6	20.5	31.4
29	0.1	0.1	0.3	0.9	2.6	7.4	20.2	31.8
30	0.1	0.1	0.3	0.9	2.5	7.2	19.6	32.2
31	0.1	0.1	0.3	0.8	2.4	7.0	19.1	32.4
32	0.1	0.1	0.3	0.8	2.4	6.8	18.7	32.3
33	0.1	0.1	0.3	0.8	2.3	6.6	18.2	32.0
34	0.1	0.1	0.3	0.7	2.2	6.4	17.9	31.4
35	0.1	0.1	0.3	0.7	2.1	6.2	17.5	30.5
36	0.1	0.1	0.3	0.7	2.1	6.1	17.2	29.8
37	0.1	0.1	0.3	0.7	2.0	5.9	16.8	29.2
38	0.1	0.1	0.3	0.7	1.9	5.7	16.4	28.6
39	0.1	0.1	0.3	0.7	1.9	5.6	16.0	28.1
40	0.1	0.1	0.3	0.7	1.8	5.4	15.6	27.6
41	0.1	0.1	0.3	0.7	1.8	5.2	15.2	27.1
42	0.1	0.1	0.3	0.7	1.7	5.1	14.8	26.5
43	0.1	0.2	0.3	0.6	1.7	4.9	14.4	25.9
44	0.1	0.2	0.3	0.6	1.6	4.8	14.1	25.3
45	0.1	0.2	0.3	0.6	1.6	4.7	13.7	24.8
46	0.1	0.2	0.3	0.6	1.6	4.5	13.4	24.2
47	0.1	0.2	0.3	0.6	1.5	4.4	13.0	23.6
48	0.1	0.2	0.3	0.6	1.5	4.2	12.7	23.0
49	0.1	0.2	0.3	0.7	1.5	4.1	12.3	22.5
50	0.1	0.2	0.3	0.7	1.5	4.0	12.0	21.9

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.5	3.9	11.7	21.4
52	0.1	0.2	0.3	0.7	1.5	3.8	11.4	20.9
53	0.1	0.2	0.3	0.7	1.4	3.7	11.1	20.4
54	0.1	0.2	0.3	0.7	1.4	3.7	10.8	19.9
55	0.1	0.2	0.3	0.7	1.4	3.6	10.5	19.3
56	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.9
57	0.1	0.2	0.4	0.7	1.4	3.5	9.9	18.4
58	0.1	0.2	0.4	0.7	1.4	3.4	9.7	18.1
59	0.1	0.2	0.4	0.7	1.5	3.4	9.4	17.6
60	0.1	0.2	0.4	0.7	1.5	3.4	9.2	17.2
61	0.1	0.2	0.4	0.7	1.5	3.4	9.0	16.7
62	0.1	0.2	0.4	0.7	1.5	3.3	8.8	16.3
63	0.1	0.2	0.4	0.8	1.5	3.3	8.7	15.9
64	0.1	0.2	0.4	0.8	1.5	3.3	8.5	15.5
65	0.1	0.2	0.4	0.8	1.6	3.3	8.4	15.1
66	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.8
67	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.5
68	0.1	0.2	0.4	0.8	1.6	3.3	8.0	14.2
69	0.1	0.2	0.4	0.8	1.6	3.3	7.9	14.0
70	0.1	0.2	0.4	0.8	1.7	3.4	7.9	13.8
71	0.1	0.2	0.4	0.8	1.7	3.4	7.9	13.5
72	0.1	0.2	0.4	0.8	1.7	3.5	7.8	13.4
73	0.1	0.2	0.4	0.8	1.7	3.5	7.8	13.2
74	0.1	0.2	0.4	0.9	1.7	3.5	7.7	13.0
75	0.1	0.2	0.4	0.9	1.7	3.6	7.7	12.9
76	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.9
77	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.8
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.7
79	0.1	0.2	0.4	0.9	1.9	3.7	7.8	12.7
80	0.1	0.2	0.5	0.9	1.9	3.8	7.8	12.6
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.6
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.6
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.6
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.6
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.7
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.8	1.9	3.4	6.8	6.9	8.8
2	0.1	0.3	0.8	1.9	3.5	5.2	7.3	9.3
3	0.1	0.3	0.8	2.0	3.7	5.6	7.8	9.9
4	0.1	0.3	0.8	2.0	3.8	5.9	8.3	10.5
5	0.1	0.3	0.7	2.0	3.9	6.3	8.9	11.1
6	0.1	0.2	0.7	1.9	4.0	6.7	9.5	11.8
7	0.1	0.2	0.7	1.8	4.1	7.1	10.1	12.5
8	0.1	0.2	0.7	1.8	4.1	7.4	10.8	13.3
9	0.1	0.2	0.6	1.7	4.2	7.7	11.6	14.2
10	0.1	0.2	0.6	1.7	4.3	8.0	12.3	15.1
11	0.1	0.2	0.6	1.6	4.3	8.3	13.1	16.0
12	0.1	0.2	0.6	1.6	4.2	8.5	13.8	17.1
13	0.1	0.2	0.5	1.5	4.1	8.7	14.6	18.1
14	0.1	0.2	0.5	1.5	4.0	8.9	15.4	19.3
15	0.1	0.2	0.5	1.4	3.9	9.0	16.2	20.4
16	0.1	0.2	0.5	1.4	3.8	9.1	16.8	21.6
17	0.1	0.2	0.5	1.3	3.7	9.3	17.4	22.7
18	0.1	0.2	0.4	1.3	3.6	9.3	18.0	24.0
19	0.1	0.1	0.4	1.2	3.5	9.3	18.5	25.0
20	0.1	0.1	0.4	1.2	3.4	9.2	18.9	26.1
21	0.1	0.1	0.4	1.2	3.3	8.9	19.3	27.0
22	0.1	0.1	0.4	1.1	3.2	8.7	19.7	27.9
23	0.1	0.1	0.4	1.1	3.1	8.4	20.0	28.7
24	0.1	0.1	0.4	1.0	3.0	8.2	20.3	29.3
25	0.1	0.1	0.3	1.0	2.9	8.0	20.5	29.9
26	0.1	0.1	0.3	1.0	2.8	7.8	20.6	30.5
27	0.1	0.1	0.3	0.9	2.7	7.7	20.5	31.0
28	0.1	0.1	0.3	0.9	2.6	7.5	20.3	31.5
29	0.1	0.1	0.3	0.9	2.6	7.3	19.9	31.9
30	0.1	0.1	0.3	0.8	2.5	7.1	19.3	32.2
31	0.1	0.1	0.3	0.8	2.4	6.9	18.8	32.2
32	0.1	0.1	0.3	0.8	2.3	6.7	18.4	32.1
33	0.1	0.1	0.3	0.8	2.2	6.5	18.0	31.6
34	0.1	0.1	0.3	0.7	2.2	6.3	17.6	30.9
35	0.1	0.1	0.3	0.7	2.1	6.1	17.3	30.1
36	0.1	0.1	0.3	0.7	2.0	6.0	16.9	29.4
37	0.1	0.1	0.3	0.7	2.0	5.8	16.5	28.8
38	0.1	0.1	0.3	0.7	1.9	5.6	16.2	28.2
39	0.1	0.1	0.3	0.7	1.8	5.4	15.9	27.7
40	0.1	0.1	0.3	0.7	1.8	5.3	15.4	27.2
41	0.1	0.1	0.3	0.7	1.7	5.1	15.0	26.7
42	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.1
43	0.1	0.2	0.3	0.6	1.6	4.8	14.2	25.5
44	0.1	0.2	0.3	0.6	1.6	4.7	13.8	24.9
45	0.1	0.2	0.3	0.6	1.6	4.6	13.5	24.3
46	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.8
47	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.2
48	0.1	0.2	0.3	0.6	1.5	4.1	12.4	22.6
49	0.1	0.2	0.3	0.7	1.5	4.0	12.1	22.1
50	0.1	0.2	0.3	0.7	1.5	3.9	11.8	21.5
51	0.1	0.2	0.3	0.7	1.5	3.8	11.5	21.0
52	0.1	0.2	0.3	0.7	1.4	3.7	11.2	20.6
53	0.1	0.2	0.3	0.7	1.4	3.7	10.9	20.0
54	0.1	0.2	0.3	0.7	1.4	3.6	10.6	19.5
55	0.1	0.2	0.3	0.7	1.4	3.5	10.3	19.0
56	0.1	0.2	0.3	0.7	1.4	3.5	10.0	18.5
57	0.1	0.2	0.4	0.7	1.4	3.4	9.8	18.1
58	0.1	0.2	0.4	0.7	1.5	3.4	9.5	17.7
59	0.1	0.2	0.4	0.7	1.5	3.3	9.3	17.3
60	0.1	0.2	0.4	0.7	1.5	3.3	9.1	16.8
61	0.1	0.2	0.4	0.7	1.5	3.3	8.9	16.4
62	0.1	0.2	0.4	0.7	1.5	3.3	8.7	16.0
63	0.1	0.2	0.4	0.8	1.5	3.3	8.5	15.6
64	0.1	0.2	0.4	0.8	1.5	3.3	8.4	15.2
65	0.1	0.2	0.4	0.8	1.6	3.3	8.2	14.9
66	0.1	0.2	0.4	0.8	1.6	3.3	8.1	14.6
67	0.1	0.2	0.4	0.8	1.6	3.3	8.0	14.3
68	0.1	0.2	0.4	0.8	1.6	3.3	7.9	14.0
69	0.1	0.2	0.4	0.8	1.6	3.4	7.8	13.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.8	13.6
71	0.1	0.2	0.4	0.8	1.7	3.4	7.8	13.4
72	0.1	0.2	0.4	0.8	1.7	3.5	7.7	13.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.7	13.0
74	0.1	0.2	0.4	0.9	1.7	3.5	7.7	12.8
75	0.1	0.2	0.4	0.9	1.7	3.6	7.7	12.7
76	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.7
77	0.1	0.2	0.4	0.9	1.8	3.6	7.7	12.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.6
79	0.1	0.2	0.4	0.9	1.9	3.7	7.8	12.5
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.5
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.5
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.5
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.5
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.8	1.9	3.4	4.9	7.0	8.9
2	0.1	0.3	0.8	1.9	3.6	5.3	7.5	9.4
3	0.1	0.3	0.8	2.0	3.7	5.7	8.0	10.0
4	0.1	0.3	0.7	2.0	3.8	6.0	8.5	10.6
5	0.1	0.3	0.7	1.9	3.9	6.4	9.1	11.3
6	0.1	0.2	0.7	1.9	4.0	6.8	9.7	12.0
7	0.1	0.2	0.7	1.8	4.1	7.2	10.3	12.8
8	0.1	0.2	0.6	1.7	4.2	7.5	11.0	13.6
9	0.1	0.2	0.6	1.7	4.2	7.8	11.8	14.4
10	0.1	0.2	0.6	1.6	4.2	8.1	12.6	15.4
11	0.1	0.2	0.6	1.6	4.2	8.3	13.3	16.3
12	0.1	0.2	0.6	1.6	4.2	8.5	14.1	17.4
13	0.1	0.2	0.5	1.5	4.1	8.7	14.9	18.5
14	0.1	0.2	0.5	1.5	3.9	8.9	15.7	19.7
15	0.1	0.2	0.5	1.4	3.8	9.0	16.3	20.8
16	0.1	0.2	0.5	1.4	3.7	9.2	17.0	21.9
17	0.1	0.2	0.5	1.3	3.6	9.3	17.6	23.1
18	0.1	0.1	0.4	1.3	3.5	9.3	18.1	24.3
19	0.1	0.1	0.4	1.2	3.4	9.2	18.6	25.4
20	0.1	0.1	0.4	1.2	3.3	9.1	19.0	26.3
21	0.1	0.1	0.4	1.1	3.2	8.8	19.4	27.3
22	0.1	0.1	0.4	1.1	3.1	8.5	19.7	28.1
23	0.1	0.1	0.4	1.1	3.1	8.3	20.0	29.8
24	0.1	0.1	0.3	1.0	3.0	8.1	20.3	29.5
25	0.1	0.1	0.3	1.0	2.9	7.9	20.5	30.1
26	0.1	0.1	0.3	1.0	2.8	7.7	20.5	30.6
27	0.1	0.1	0.3	0.9	2.7	7.6	20.4	31.1
28	0.1	0.1	0.3	0.9	2.6	7.4	20.1	31.5
29	0.1	0.1	0.3	0.8	2.5	7.2	19.5	31.9
30	0.1	0.1	0.3	0.8	2.4	7.0	19.0	32.1
31	0.1	0.1	0.3	0.8	2.3	6.8	18.5	32.0
32	0.1	0.1	0.3	0.8	2.3	6.6	18.1	31.8
33	0.1	0.1	0.3	0.7	2.2	6.4	17.7	31.2
34	0.1	0.1	0.3	0.7	2.1	6.2	17.4	30.3
35	0.1	0.1	0.3	0.7	2.1	6.0	17.1	29.6
36	0.1	0.1	0.3	0.7	2.0	5.9	16.7	29.0
37	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.4
38	0.1	0.1	0.3	0.7	1.9	5.5	15.9	27.8
39	0.1	0.1	0.3	0.7	1.8	5.3	15.5	27.3
40	0.1	0.1	0.3	0.7	1.7	5.2	15.1	26.9
41	0.1	0.1	0.3	0.6	1.7	5.0	14.7	26.3
42	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.7
43	0.1	0.2	0.3	0.6	1.6	4.8	13.9	25.1
44	0.1	0.2	0.3	0.6	1.6	4.6	13.6	24.5
45	0.1	0.2	0.3	0.6	1.5	4.5	13.2	23.9
46	0.1	0.2	0.3	0.6	1.5	4.3	12.9	23.4
47	0.1	0.2	0.3	0.6	1.5	4.2	12.6	22.8
48	0.1	0.2	0.3	0.6	1.5	4.1	12.2	22.2
49	0.1	0.2	0.3	0.7	1.5	4.0	11.9	21.7
50	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.2
51	0.1	0.2	0.3	0.7	1.4	3.8	11.3	20.7
52	0.1	0.2	0.3	0.7	1.4	3.7	11.0	20.2
53	0.1	0.2	0.3	0.7	1.4	3.6	10.7	19.6
54	0.1	0.2	0.3	0.7	1.4	3.5	10.4	19.1
55	0.1	0.2	0.3	0.7	1.4	3.5	10.1	18.7
56	0.1	0.2	0.3	0.7	1.4	3.4	9.8	18.2
57	0.1	0.2	0.4	0.7	1.4	3.4	9.6	17.9
58	0.1	0.2	0.4	0.7	1.5	3.3	9.3	17.4
59	0.1	0.2	0.4	0.7	1.5	3.3	9.1	17.0
60	0.1	0.2	0.4	0.7	1.5	3.3	8.9	16.5
61	0.1	0.2	0.4	0.7	1.5	3.3	8.7	16.1
62	0.1	0.2	0.4	0.7	1.5	3.3	8.6	15.7
63	0.1	0.2	0.4	0.8	1.5	3.3	8.4	15.3
64	0.1	0.2	0.4	0.8	1.5	3.2	8.3	15.0
65	0.1	0.2	0.4	0.8	1.6	3.2	8.1	14.6
66	0.1	0.2	0.4	0.8	1.6	3.2	8.0	14.3
67	0.1	0.2	0.4	0.8	1.6	3.3	7.9	14.1
68	0.1	0.2	0.4	0.8	1.6	3.3	7.8	13.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.8	13.6
70	0.1	0.2	0.4	0.8	1.7	3.4	7.8	13.4
71	0.1	0.2	0.4	0.8	1.7	3.4	7.7	13.2
72	0.1	0.2	0.4	0.8	1.7	3.5	7.7	13.0
73	0.1	0.2	0.4	0.8	1.7	3.5	7.6	12.8
74	0.1	0.2	0.4	0.9	1.7	3.5	7.6	12.7
75	0.1	0.2	0.4	0.9	1.7	3.6	7.6	12.6
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.6
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.5
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.4
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.4
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.4
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.4
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.8	1.9	3.5	5.0	7.1	9.1
2	0.1	0.3	0.8	1.9	3.6	5.4	7.6	9.6
3	0.1	0.3	0.8	2.0	3.7	5.8	8.1	10.2
4	0.1	0.3	0.7	1.9	3.8	6.1	8.7	10.8
5	0.1	0.3	0.7	1.9	3.9	6.5	9.2	11.5
6	0.1	0.2	0.7	1.8	4.0	6.9	9.9	12.2
7	0.1	0.2	0.7	1.8	4.1	7.3	10.5	13.0
8	0.1	0.2	0.6	1.7	4.2	7.6	11.3	13.8
9	0.1	0.2	0.6	1.7	4.2	7.9	12.0	14.7
10	0.1	0.2	0.6	1.6	4.2	8.1	12.8	15.6
11	0.1	0.2	0.6	1.6	4.2	8.4	13.5	16.6
12	0.1	0.2	0.5	1.5	4.1	8.6	14.3	17.7
13	0.1	0.2	0.5	1.5	4.0	8.7	15.1	18.9
14	0.1	0.2	0.5	1.4	3.9	8.9	15.9	20.0
15	0.1	0.2	0.5	1.4	3.8	9.0	16.5	21.1
16	0.1	0.2	0.5	1.3	3.7	9.2	17.2	22.3
17	0.1	0.2	0.4	1.3	3.6	9.2	17.7	23.5
18	0.1	0.1	0.4	1.2	3.5	9.2	18.2	24.6
19	0.1	0.1	0.4	1.2	3.4	9.1	18.7	25.6
20	0.1	0.1	0.4	1.2	3.3	8.9	19.1	26.6
21	0.1	0.1	0.4	1.1	3.2	8.6	19.4	27.5
22	0.1	0.1	0.4	1.1	3.1	8.4	19.8	28.3
23	0.1	0.1	0.4	1.0	3.0	8.2	20.0	29.0
24	0.1	0.1	0.3	1.0	2.9	8.0	20.3	29.6
25	0.1	0.1	0.3	1.0	2.8	7.8	20.4	30.2
26	0.1	0.1	0.3	0.9	2.7	7.7	20.4	30.7
27	0.1	0.1	0.3	0.9	2.6	7.5	20.2	31.1
28	0.1	0.1	0.3	0.9	2.6	7.3	19.8	31.5
29	0.1	0.1	0.3	0.8	2.5	7.1	19.2	31.9
30	0.1	0.1	0.3	0.8	2.4	6.9	18.7	31.9
31	0.1	0.1	0.3	0.8	2.3	6.7	18.3	31.8
32	0.1	0.1	0.3	0.8	2.2	6.5	17.9	31.4
33	0.1	0.1	0.3	0.7	2.2	6.3	17.5	30.7
34	0.1	0.1	0.3	0.7	2.1	6.1	17.2	29.9
35	0.1	0.1	0.3	0.7	2.0	5.9	16.8	29.2
36	0.1	0.1	0.3	0.7	1.9	5.8	16.4	28.6
37	0.1	0.1	0.3	0.7	1.9	5.6	16.0	28.0
38	0.1	0.1	0.3	0.7	1.8	5.4	15.6	27.5
39	0.1	0.1	0.3	0.6	1.8	5.2	15.2	27.0
40	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.5
41	0.1	0.1	0.3	0.6	1.7	4.9	14.5	25.9
42	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.3
43	0.1	0.2	0.3	0.6	1.6	4.7	13.7	24.7
44	0.1	0.2	0.3	0.6	1.6	4.5	13.4	24.1
45	0.1	0.2	0.3	0.6	1.5	4.4	13.0	23.6
46	0.1	0.2	0.3	0.6	1.5	4.2	12.7	23.0
47	0.1	0.2	0.3	0.6	1.5	4.1	12.3	22.4
48	0.1	0.2	0.3	0.6	1.5	4.0	12.0	21.9
49	0.1	0.2	0.3	0.7	1.5	3.9	11.6	21.3
50	0.1	0.2	0.3	0.7	1.4	3.8	11.4	20.8
51	0.1	0.2	0.3	0.7	1.4	3.7	11.1	20.4
52	0.1	0.2	0.3	0.7	1.4	3.6	10.8	19.8
53	0.1	0.2	0.3	0.7	1.4	3.6	10.5	19.3
54	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.8
55	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.3
56	0.1	0.2	0.3	0.7	1.4	3.4	9.6	17.9
57	0.1	0.2	0.4	0.7	1.4	3.3	9.4	17.5
58	0.1	0.2	0.4	0.7	1.5	3.3	9.2	17.1
59	0.1	0.2	0.4	0.7	1.5	3.3	9.0	16.7
60	0.1	0.2	0.4	0.7	1.5	3.3	8.8	16.2
61	0.1	0.2	0.4	0.7	1.5	3.3	8.6	15.8
62	0.1	0.2	0.4	0.7	1.5	3.2	8.4	15.4
63	0.1	0.2	0.4	0.8	1.5	3.2	8.3	15.0
64	0.1	0.2	0.4	0.8	1.5	3.2	8.2	14.7
65	0.1	0.2	0.4	0.8	1.6	3.2	8.0	14.4
66	0.1	0.2	0.4	0.8	1.6	3.2	7.9	14.1
67	0.1	0.2	0.4	0.8	1.6	3.3	7.8	13.8
68	0.1	0.2	0.4	0.8	1.6	3.3	7.7	13.6
69	0.1	0.2	0.4	0.8	1.6	3.4	7.7	13.4
70	0.1	0.2	0.4	0.8	1.7	3.4	7.7	13.2
71	0.1	0.2	0.4	0.8	1.7	3.4	7.7	13.0
72	0.1	0.2	0.4	0.8	1.7	3.5	7.6	12.8
73	0.1	0.2	0.4	0.8	1.7	3.5	7.6	12.7
74	0.1	0.2	0.4	0.9	1.7	3.5	7.6	12.6
75	0.1	0.2	0.4	0.9	1.7	3.6	7.6	12.6
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.5
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.5
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.4
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.4
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.3
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.3
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.8	1.9	3.5	5.1	7.3	9.2
2	0.1	0.3	0.8	1.9	3.6	5.5	7.7	9.8
3	0.1	0.3	0.7	1.9	3.8	5.9	8.3	10.4
4	0.1	0.3	0.7	1.9	3.9	6.2	8.8	11.0
5	0.1	0.2	0.7	1.9	4.0	6.6	9.4	11.7
6	0.1	0.2	0.7	1.8	4.0	7.0	10.1	12.4
7	0.1	0.2	0.6	1.8	4.1	7.3	10.7	13.2
8	0.1	0.2	0.6	1.7	4.2	7.7	11.5	14.1
9	0.1	0.2	0.6	1.6	4.2	7.9	12.3	15.0
10	0.1	0.2	0.6	1.6	4.2	8.2	13.0	15.9
11	0.1	0.2	0.6	1.6	4.2	8.4	13.8	17.0
12	0.1	0.2	0.5	1.5	4.1	8.6	14.5	18.1
13	0.1	0.2	0.5	1.5	3.9	8.8	15.3	19.2
14	0.1	0.2	0.5	1.4	3.8	8.9	16.0	20.3
15	0.1	0.2	0.5	1.4	3.7	9.1	16.7	21.5
16	0.1	0.2	0.5	1.3	3.6	9.2	17.3	22.6
17	0.1	0.1	0.4	1.3	3.5	9.2	17.9	23.8
18	0.1	0.1	0.4	1.2	3.4	9.2	18.3	24.9
19	0.1	0.1	0.4	1.2	3.3	9.0	18.7	25.9
20	0.1	0.1	0.4	1.1	3.2	8.8	19.1	26.8
21	0.1	0.1	0.4	1.1	3.1	8.5	19.5	27.7
22	0.1	0.1	0.4	1.1	3.0	8.3	19.8	28.4
23	0.1	0.1	0.3	1.0	2.9	8.1	20.0	29.1
24	0.1	0.1	0.3	1.0	2.9	7.9	20.3	29.7
25	0.1	0.1	0.3	1.0	2.8	7.7	20.3	30.3
26	0.1	0.1	0.3	0.9	2.7	7.5	20.2	30.7
27	0.1	0.1	0.3	0.9	2.6	7.3	20.0	31.2
28	0.1	0.1	0.3	0.8	2.5	7.1	19.5	31.5
29	0.1	0.1	0.3	0.8	2.4	6.9	18.9	31.8
30	0.1	0.1	0.3	0.8	2.3	6.8	18.4	31.8
31	0.1	0.1	0.3	0.8	2.3	6.6	18.0	31.6
32	0.1	0.1	0.3	0.7	2.2	6.4	17.6	31.0
33	0.1	0.1	0.3	0.7	2.1	6.2	17.3	30.2
34	0.1	0.1	0.3	0.7	2.0	6.0	17.0	29.5
35	0.1	0.1	0.3	0.7	2.0	5.8	16.6	28.8
36	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.2
37	0.1	0.1	0.3	0.7	1.8	5.5	15.8	27.6
38	0.1	0.1	0.3	0.6	1.8	5.3	15.4	27.1
39	0.1	0.1	0.3	0.6	1.7	5.1	15.0	26.7
40	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.1
41	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.5
42	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.9
43	0.1	0.2	0.3	0.6	1.6	4.6	13.5	24.3
44	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.8
45	0.1	0.2	0.3	0.6	1.5	4.3	12.8	23.2
46	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.6
47	0.1	0.2	0.3	0.6	1.5	4.0	12.1	22.0
48	0.1	0.2	0.3	0.6	1.4	3.9	11.8	21.5
49	0.1	0.2	0.3	0.7	1.4	3.8	11.4	21.0
50	0.1	0.2	0.3	0.7	1.4	3.7	11.2	20.5
51	0.1	0.2	0.3	0.7	1.4	3.7	10.9	20.0
52	0.1	0.2	0.3	0.7	1.4	3.6	10.6	19.5
53	0.1	0.2	0.3	0.7	1.4	3.5	10.3	18.9
54	0.1	0.2	0.3	0.7	1.4	3.5	10.0	18.5
55	0.1	0.2	0.3	0.7	1.4	3.4	9.7	18.0
56	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.7
57	0.1	0.2	0.4	0.7	1.4	3.3	9.2	17.2
58	0.1	0.2	0.4	0.7	1.5	3.3	9.0	16.8
59	0.1	0.2	0.4	0.7	1.5	3.3	8.8	16.4
60	0.1	0.2	0.4	0.7	1.5	3.3	8.6	15.9
61	0.1	0.2	0.4	0.7	1.5	3.2	8.5	15.5
62	0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.1
63	0.1	0.2	0.4	0.8	1.5	3.2	8.2	14.8
64	0.1	0.2	0.4	0.8	1.5	3.2	8.1	14.5
65	0.1	0.2	0.4	0.8	1.6	3.2	7.9	14.2
66	0.1	0.2	0.4	0.8	1.6	3.2	7.8	13.9
67	0.1	0.2	0.4	0.8	1.6	3.3	7.7	13.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.7	13.4
69	0.1	0.2	0.4	0.9	1.6	3.4	7.7	13.2
70	0.1	0.2	0.4	0.8	1.7	3.4	7.6	13.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.6	12.9
72	0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.7
73	0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.6
74	0.1	0.2	0.4	0.9	1.7	3.5	7.5	12.5
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.5	12.4
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.4
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.3
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.3
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.3
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.3
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	3.6	10.7	19.7
52	0.1	0.2	0.3	0.7	1.4	3.5	10.4	19.1
53	0.1	0.2	0.3	0.7	1.4	3.5	10.1	18.6
54	0.1	0.2	0.3	0.7	1.4	3.4	9.8	18.2
55	0.1	0.2	0.3	0.7	1.4	3.3	9.6	17.8
56	0.1	0.2	0.3	0.7	1.4	3.3	9.3	17.4
57	0.1	0.2	0.4	0.7	1.4	3.3	9.1	16.9
58	0.1	0.2	0.4	0.7	1.5	3.3	8.9	16.5
59	0.1	0.2	0.4	0.7	1.5	3.3	8.7	16.1
60	0.1	0.2	0.4	0.7	1.5	3.2	8.5	15.6
61	0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.2
62	0.1	0.2	0.4	0.7	1.5	3.2	8.2	14.9
63	0.1	0.2	0.4	0.8	1.5	3.2	8.1	14.6
64	0.1	0.2	0.4	0.8	1.5	3.2	7.9	14.2
65	0.1	0.2	0.4	0.8	1.6	3.2	7.8	14.0
66	0.1	0.2	0.4	0.8	1.6	3.2	7.7	13.7
67	0.1	0.2	0.4	0.8	1.6	3.3	7.7	13.5
68	0.1	0.2	0.4	0.8	1.6	3.3	7.6	13.2
69	0.1	0.2	0.4	0.8	1.6	3.4	7.6	13.1
70	0.1	0.2	0.4	0.8	1.7	3.4	7.6	12.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.5	12.7
72	0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.5
73	0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.5
74	0.1	0.2	0.4	0.9	1.7	3.5	7.5	12.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.4
76	0.1	0.2	0.4	0.9	1.8	3.6	7.5	12.3
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.3
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.2
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.2
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.2
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.8	1.9	3.6	5.3	7.5	9.5
2	0.1	0.3	0.7	1.9	3.7	5.7	8.0	10.1
3	0.1	0.3	0.7	1.9	3.8	6.1	8.6	10.7
4	0.1	0.2	0.7	1.9	3.9	6.4	9.2	11.4
5	0.1	0.2	0.7	1.8	4.0	6.8	9.8	12.1
6	0.1	0.2	0.7	1.8	4.1	7.2	10.4	12.9
7	0.1	0.2	0.6	1.7	4.1	7.5	11.2	13.7
8	0.1	0.2	0.6	1.7	4.2	7.8	11.9	14.6
9	0.1	0.2	0.6	1.6	4.2	8.1	12.7	15.5
10	0.1	0.2	0.6	1.6	4.2	8.3	13.4	16.5
11	0.1	0.2	0.5	1.5	4.1	8.5	14.2	17.6
12	0.1	0.2	0.5	1.5	3.9	8.7	15.0	19.7
13	0.1	0.2	0.5	1.4	3.8	8.8	15.7	19.9
14	0.1	0.2	0.5	1.4	3.7	8.9	16.4	21.0
15	0.1	0.2	0.5	1.3	3.6	9.1	17.0	22.1
16	0.1	0.1	0.4	1.3	3.5	9.1	17.6	23.3
17	0.1	0.1	0.4	1.2	3.4	9.1	18.1	24.4
18	0.1	0.1	0.4	1.2	3.3	9.0	18.5	25.5
19	0.1	0.1	0.4	1.1	3.2	8.8	18.9	26.4
20	0.1	0.1	0.4	1.1	3.1	8.5	19.3	27.3
21	0.1	0.1	0.4	1.1	3.0	8.3	19.6	28.1
22	0.1	0.1	0.3	1.0	2.9	8.1	19.8	28.7
23	0.1	0.1	0.3	1.0	2.9	7.9	20.1	29.3
24	0.1	0.1	0.3	1.0	2.8	7.7	20.2	29.9
25	0.1	0.1	0.3	0.9	2.7	7.5	20.1	30.4
26	0.1	0.1	0.2	0.9	2.6	7.2	19.9	30.8
27	0.1	0.1	0.3	0.8	2.5	7.1	19.4	31.2
28	0.1	0.1	0.3	0.8	2.4	6.9	18.8	31.5
29	0.1	0.1	0.3	0.8	2.3	6.7	18.4	31.5
30	0.1	0.1	0.3	0.8	2.2	6.5	18.0	31.4
31	0.1	0.1	0.3	0.7	2.2	6.3	17.6	30.9
32	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.1
33	0.1	0.1	0.3	0.7	2.0	6.0	16.9	29.3
34	0.1	0.1	0.3	0.7	2.0	5.8	16.5	28.7
35	0.1	0.1	0.3	0.7	1.9	5.6	16.1	28.0
36	0.1	0.1	0.3	0.7	1.8	5.5	15.7	27.5
37	0.1	0.1	0.3	0.6	1.8	5.3	15.3	27.0
38	0.1	0.1	0.3	0.6	1.7	5.1	14.9	26.5
39	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.9
40	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.4
41	0.1	0.1	0.2	0.5	1.6	4.7	13.8	24.8
42	0.1	0.1	0.3	0.6	1.6	4.6	13.4	24.2
43	0.1	0.2	0.3	0.6	1.5	4.4	13.1	23.6
44	0.1	0.2	0.3	0.6	1.5	4.3	12.7	23.0
45	0.1	0.2	0.3	0.6	1.5	4.1	12.4	22.5
46	0.1	0.2	0.3	0.6	1.4	4.0	12.0	21.9
47	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4
48	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.8
49	0.1	0.2	0.3	0.7	1.4	3.7	11.1	20.4
50	0.1	0.2	0.3	0.7	1.4	3.6	10.8	19.9
51	0.1	0.2	0.3	0.7	1.4	3.5	10.5	19.3
52	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.8
53	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.3
54	0.1	0.2	0.3	0.7	1.4	3.4	9.6	17.9
55	0.1	0.2	0.3	0.7	1.4	3.3	9.4	17.5
56	0.1	0.2	0.3	0.7	1.4	3.3	9.2	17.1
57	0.1	0.2	0.4	0.7	1.4	3.3	8.9	16.6
58	0.1	0.2	0.4	0.7	1.5	3.2	8.7	16.2
59	0.1	0.2	0.4	0.7	1.5	3.2	8.5	15.8
60	0.1	0.2	0.4	0.7	1.5	3.2	8.4	15.3
61	0.1	0.2	0.4	0.7	1.5	3.2	8.2	15.0
62	0.1	0.2	0.4	0.7	1.5	3.2	8.1	14.6
63	0.1	0.2	0.4	0.8	1.5	3.2	8.0	14.3
64	0.1	0.2	0.4	0.8	1.5	3.2	7.8	14.0
65	0.1	0.2	0.4	0.8	1.6	3.2	7.7	13.7
66	0.1	0.2	0.4	0.8	1.6	3.2	7.6	13.5
67	0.1	0.2	0.4	0.8	1.6	3.3	7.6	13.3
68	0.1	0.2	0.4	0.8	1.6	3.3	7.6	13.1
69	0.1	0.2	0.4	0.8	1.6	3.4	7.6	12.9
70	0.1	0.2	0.4	0.8	1.7	3.4	7.5	12.7
71	0.1	0.2	0.4	0.8	1.7	3.4	7.5	12.5
72	0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.4
73	0.1	0.2	0.4	0.8	1.7	3.5	7.5	12.4
74	0.1	0.2	0.4	0.9	1.7	3.5	7.5	12.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.3
76	0.1	0.2	0.4	0.9	1.8	3.6	7.5	12.2
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.2
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.1
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.1
80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.2
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, °F	BAND 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
2	0.1	0.3	0.7	1.9	3.7	5.8	8.2	10.3
3	0.1	0.3	0.7	1.9	3.8	6.2	8.7	10.9
4	0.1	0.2	0.7	1.9	3.9	6.5	9.3	11.6
5	0.1	0.2	0.7	1.8	4.0	6.9	10.0	12.3
6	0.1	0.2	0.6	1.7	4.1	7.3	10.6	13.1
7	0.1	0.2	0.6	1.7	4.1	7.6	11.4	13.9
8	0.1	0.2	0.6	1.6	4.2	7.9	12.1	14.8
9	0.1	0.2	0.6	1.6	4.2	8.1	12.9	15.8
10	0.1	0.2	0.5	1.5	4.1	8.3	13.6	16.8
11	0.1	0.2	0.5	1.5	4.0	8.5	14.4	17.9
12	0.1	0.2	0.5	1.4	3.9	8.7	15.2	19.1
13	0.1	0.2	0.5	1.4	3.8	8.8	15.9	20.2
14	0.1	0.2	0.5	1.3	3.7	9.0	16.6	21.3
15	0.1	0.2	0.4	1.3	3.6	9.1	17.2	22.5
16	0.1	0.1	0.4	1.2	3.5	9.1	17.7	23.7
17	0.1	0.1	0.4	1.2	3.4	9.1	18.2	24.7
18	0.1	0.1	0.4	1.2	3.3	9.0	18.6	25.7
19	0.1	0.1	0.4	1.1	3.2	8.6	19.0	26.6
20	0.1	0.1	0.4	1.1	3.1	8.4	19.3	27.5
21	0.1	0.1	0.4	1.0	3.0	8.2	19.6	28.2
22	0.1	0.1	0.3	1.0	2.9	8.0	19.8	28.8
23	0.1	0.1	0.3	1.0	2.8	7.8	20.0	29.4
24	0.1	0.1	0.3	0.9	2.7	7.6	20.1	30.0
25	0.1	0.1	0.3	0.9	2.6	7.4	20.0	30.4
26	0.1	0.1	0.3	0.9	2.5	7.2	19.6	30.9
27	0.1	0.1	0.3	0.8	2.5	7.0	19.1	31.2
28	0.1	0.1	0.3	0.8	2.4	6.8	18.6	31.4
29	0.1	0.1	0.3	0.8	2.3	6.6	18.1	31.4
30	0.1	0.1	0.3	0.7	2.2	6.4	17.7	31.1
31	0.1	0.1	0.3	0.7	2.2	6.2	17.3	30.5
32	0.1	0.1	0.3	0.7	2.1	6.1	17.0	29.6
33	0.1	0.1	0.3	0.7	2.0	5.9	16.7	28.9
34	0.1	0.1	0.3	0.7	1.9	5.7	16.3	28.3
35	0.1	0.1	0.3	0.7	1.9	5.5	15.9	27.7
36	0.1	0.1	0.3	0.6	1.8	5.4	15.5	27.1
37	0.1	0.1	0.3	0.6	1.7	5.2	15.1	26.7
38	0.1	0.1	0.3	0.6	1.7	5.0	14.7	26.2
39	0.1	0.1	0.3	0.6	1.6	4.9	14.3	25.6
40	0.1	0.1	0.3	0.6	1.6	4.8	13.9	25.0
41	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.4
42	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.8
43	0.1	0.2	0.3	0.6	1.5	4.3	12.9	23.3
44	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.7
45	0.1	0.2	0.3	0.6	1.4	4.1	12.2	22.1
46	0.1	0.2	0.3	0.6	1.4	3.9	11.8	21.6
47	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.0
48	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5
49	0.1	0.2	0.3	0.7	1.4	3.6	10.9	20.1
50	0.1	0.2	0.3	0.7	1.4	3.6	10.6	19.5
51	0.1	0.2	0.3	0.7	1.4	3.5	10.3	19.0
52	0.1	0.2	0.3	0.7	1.4	3.4	10.0	18.5
53	0.1	0.2	0.3	0.7	1.4	3.4	9.8	18.0
54	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.6
55	0.1	0.2	0.3	0.7	1.4	3.3	9.2	17.2
56	0.1	0.2	0.3	0.7	1.4	3.2	9.0	16.8
57	0.1	0.2	0.4	0.7	1.4	3.2	8.8	16.4
58	0.1	0.2	0.4	0.7	1.5	3.2	8.6	15.9
59	0.1	0.2	0.4	0.7	1.5	3.2	8.4	15.5
60	0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.1
61	0.1	0.2	0.4	0.7	1.5	3.2	8.1	14.7
62	0.1	0.2	0.4	0.7	1.5	3.2	8.0	14.4
63	0.1	0.2	0.4	0.8	1.5	3.2	7.9	14.1
64	0.1	0.2	0.4	0.8	1.5	3.2	7.7	13.8
65	0.1	0.2	0.4	0.8	1.6	3.2	7.6	13.6
66	0.1	0.2	0.4	0.8	1.6	3.2	7.6	13.3
67	0.1	0.2	0.4	0.8	1.6	3.3	7.6	13.1
68	0.1	0.2	0.4	0.8	1.6	3.3	7.5	12.9
69	0.1	0.2	0.4	0.8	1.6	3.4	7.5	12.7
70	0.1	0.2	0.4	0.8	1.7	3.4	7.4	12.6
71	0.1	0.2	0.4	0.8	1.7	3.4	7.4	12.4
72	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.3
73	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.3
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.2
76	0.1	0.2	0.4	0.9	1.8	3.6	7.5	12.1
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.1
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.1
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.1
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.6	5.5	7.8	9.8
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	0.2	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
9	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
TEMPERATURE, DEGREES FAHRENHEIT 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	3.2	8.8	18.6	26.0
19	0.1	0.1	0.4	1.1	3.1	8.5	19.0	26.8
20	0.1	0.1	0.4	1.1	3.0	8.3	19.3	27.6
21	0.1	0.1	0.3	1.0	3.0	8.1	19.6	28.3
22	0.1	0.1	0.3	1.0	2.9	7.8	19.8	28.9
DEGREES FAHRENHEIT 23	0.1	0.1	0.3	1.0	2.9	7.7	20.0	29.5
24	0.1	0.1	0.3	0.9	2.7	7.5	20.0	30.0
25	0.1	0.1	0.3	0.9	2.6	7.3	19.8	30.5
26	0.1	0.1	0.3	0.8	2.5	7.1	19.4	30.9
27	0.1	0.1	0.3	0.8	2.4	6.9	18.8	31.2
28	0.1	0.1	0.3	0.8	2.3	6.7	18.3	31.3
29	0.1	0.1	0.3	0.8	2.2	6.5	17.9	31.2
30	0.1	0.1	0.3	0.7	2.2	6.3	17.5	30.8
31	0.1	0.1	0.3	0.7	2.1	6.1	17.1	30.1
32	0.1	0.1	0.3	0.7	2.0	6.0	16.8	29.2
33	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.6
34	0.1	0.1	0.3	0.7	1.9	5.6	16.1	27.9
35	0.1	0.1	0.3	0.7	1.8	5.4	15.7	27.3
36	0.1	0.1	0.3	0.6	1.8	5.3	15.3	26.8
37	0.1	0.1	0.3	0.6	1.7	5.1	14.9	26.4
38	0.1	0.1	0.3	0.6	1.7	4.9	14.5	25.8
39	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.2
40	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.7
41	0.1	0.1	0.3	0.6	1.5	4.5	13.3	24.1
42	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.5
43	0.1	0.2	0.3	0.6	1.5	4.2	12.7	22.9
44	0.1	0.2	0.3	0.6	1.5	4.1	12.3	22.3
45	0.1	0.2	0.3	0.6	1.4	4.0	12.0	21.8
46	0.1	0.2	0.3	0.6	1.4	3.9	11.6	21.2
47	0.1	0.2	0.3	0.6	1.4	3.8	11.3	20.7
48	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2
49	0.1	0.2	0.3	0.7	1.4	3.6	10.8	19.7
50	0.1	0.2	0.3	0.7	1.4	3.5	10.5	19.2
51	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.7
52	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.2
53	0.1	0.2	0.3	0.7	1.4	3.3	9.6	17.8
54	0.1	0.2	0.3	0.7	1.4	3.3	9.3	17.4
55	0.1	0.2	0.3	0.7	1.4	3.2	9.1	17.0
56	0.1	0.2	0.3	0.7	1.4	3.2	8.9	16.5
57	0.1	0.2	0.4	0.7	1.4	3.2	8.7	16.1
58	0.1	0.2	0.4	0.7	1.5	3.2	8.5	15.6
59	0.1	0.2	0.4	0.7	1.5	3.2	8.3	15.2
TEMPERATURE, DEGREES FAHRENHEIT 60	0.1	0.2	0.4	0.7	1.5	3.2	8.2	14.8
61	0.1	0.2	0.4	0.7	1.5	3.1	8.0	14.5
62	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.2
63	0.1	0.2	0.4	0.8	1.5	3.1	7.8	13.9
64	0.1	0.2	0.4	0.8	1.5	3.2	7.7	13.6
65	0.1	0.2	0.4	0.8	1.6	3.2	7.6	13.4
66	0.1	0.2	0.4	0.8	1.6	3.2	7.5	13.2
67	0.1	0.2	0.4	0.8	1.6	3.3	7.5	12.9
68	0.1	0.2	0.4	0.8	1.6	3.3	7.5	12.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.4	12.6
70	0.1	0.2	0.4	0.8	1.7	3.4	7.4	12.4
71	0.1	0.2	0.4	0.9	1.7	3.4	7.4	12.3
72	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.4	12.2
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.2
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.1
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.0
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.0
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.0
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.0
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.0
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.3	0.7	1.9	3.8	6.0	8.5	10.6
3	0.1	0.2	0.7	1.9	3.9	6.4	9.0	11.2
4	0.1	0.2	0.7	1.8	3.9	6.7	9.6	12.0
5	0.1	0.2	0.6	1.7	4.0	7.1	10.3	12.7
6	0.1	0.2	0.6	1.7	4.1	7.4	11.0	13.5
7	0.1	0.2	0.6	1.6	4.1	7.7	11.8	14.4
8	0.1	0.2	0.6	1.6	4.1	8.0	12.5	15.3
9	0.1	0.2	0.6	1.5	4.1	8.2	13.3	16.3
10	0.1	0.2	0.5	1.5	4.0	8.4	14.0	17.4
11	0.1	0.2	0.5	1.4	3.9	8.6	14.8	18.5
12	0.1	0.2	0.5	1.4	3.8	8.7	15.6	19.7
13	0.1	0.2	0.5	1.4	3.7	8.9	16.2	20.8
14	0.1	0.2	0.5	1.3	3.6	9.0	16.9	21.9
15	0.1	0.1	0.4	1.3	3.5	9.0	17.4	23.1
16	0.1	0.1	0.4	1.2	3.4	9.0	17.9	24.2
17	0.1	0.1	0.4	1.2	3.3	8.9	18.3	25.2
18	0.1	0.1	0.4	1.1	3.2	8.7	18.7	26.2
19	0.1	0.1	0.4	1.1	3.1	8.4	19.1	27.0
20	0.1	0.1	0.4	1.0	3.0	8.2	19.4	27.8
21	0.1	0.1	0.3	1.0	2.9	7.9	19.6	28.5
22	0.1	0.1	0.3	1.0	2.8	7.8	19.8	29.0
23	0.1	0.1	0.3	0.9	2.7	7.6	19.9	29.6
24	0.1	0.1	0.3	0.9	2.6	7.4	19.9	30.1
25	0.1	0.1	0.3	0.9	2.5	7.2	19.6	30.5
26	0.1	0.1	0.3	0.8	2.5	7.0	19.1	30.9
27	0.1	0.1	0.3	0.8	2.4	6.8	18.5	31.1
28	0.1	0.1	0.3	0.8	2.3	6.6	18.1	31.2
29	0.1	0.1	0.3	0.7	2.2	6.4	17.7	30.9
30	0.1	0.1	0.3	0.7	2.1	6.2	17.3	30.4
31	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6
32	0.1	0.1	0.3	0.7	2.0	5.9	16.6	28.8
33	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.2
34	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.6
35	0.1	0.1	0.3	0.6	1.8	5.4	15.4	27.0
36	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.5
37	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.0
38	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.5
39	0.1	0.1	0.3	0.6	1.6	4.7	13.9	24.9
40	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.3
41	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.7
42	0.1	0.1	0.3	0.6	1.5	4.3	12.8	23.1
43	0.1	0.2	0.3	0.6	1.5	4.2	12.5	22.6
44	0.1	0.2	0.3	0.6	1.4	4.0	12.1	22.0
45	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4
46	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.9
47	0.1	0.2	0.3	0.6	1.4	3.7	11.1	20.4
48	0.1	0.2	0.3	0.6	1.4	3.6	10.9	19.9
49	0.1	0.2	0.3	0.7	1.4	3.5	10.6	19.4
50	0.1	0.2	0.3	0.7	1.4	3.5	10.3	18.9

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	3.4	10.0	18.4
52	0.1	0.2	0.3	0.7	1.4	3.4	9.7	17.9
53	0.1	0.2	0.3	0.7	1.4	3.3	9.4	17.5
54	0.1	0.2	0.3	0.7	1.4	3.2	9.2	17.1
55	0.1	0.2	0.3	0.7	1.4	3.2	8.9	16.7
56	0.1	0.2	0.3	0.7	1.4	3.2	8.7	16.2
57	0.1	0.2	0.4	0.7	1.4	3.2	8.5	15.8
58	0.1	0.2	0.4	0.7	1.5	3.2	8.4	15.4
59	0.1	0.2	0.4	0.7	1.5	3.1	8.2	15.0
60	0.1	0.2	0.4	0.7	1.5	3.1	8.0	14.6
61	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.3
62	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.0
63	0.1	0.2	0.4	0.8	1.5	3.1	7.7	13.7
64	0.1	0.2	0.4	0.8	1.5	3.2	7.6	13.4
65	0.1	0.2	0.4	0.8	1.6	3.2	7.5	13.2
66	0.1	0.2	0.4	0.8	1.6	3.2	7.5	13.0
67	0.1	0.2	0.4	0.8	1.6	3.3	7.5	12.8
68	0.1	0.2	0.4	0.8	1.6	3.3	7.4	12.6
69	0.1	0.2	0.4	0.8	1.6	3.4	7.4	12.5
70	0.1	0.2	0.4	0.8	1.7	3.4	7.3	12.3
71	0.1	0.2	0.4	0.8	1.7	3.4	7.3	12.2
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	12.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	12.2
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.1
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	12.0
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.0
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	12.0
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	12.0
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	12.0
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.0
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.3	0.7	1.9	3.8	6.1	8.6	10.7
3	0.1	0.2	0.7	1.8	3.9	6.5	9.2	11.4
4	0.1	0.2	0.7	1.8	4.0	6.8	9.8	12.2
5	0.1	0.2	0.6	1.7	4.0	7.2	10.5	12.9
6	0.1	0.2	0.6	1.7	4.1	7.5	11.2	13.8
7	0.1	0.2	0.6	1.6	4.1	7.9	12.0	14.7
8	0.1	0.2	0.6	1.6	4.1	8.0	12.7	15.6
9	0.1	0.2	0.5	1.5	4.1	8.2	13.5	16.6
10	0.1	0.2	0.5	1.5	4.0	8.4	14.2	17.7
11	0.1	0.2	0.5	1.4	3.8	8.6	15.0	18.9
12	0.1	0.2	0.5	1.4	3.7	8.7	15.7	20.0
13	0.1	0.2	0.5	1.3	3.6	8.9	16.4	21.1
14	0.1	0.2	0.4	1.3	3.5	9.0	17.0	22.2
15	0.1	0.1	0.4	1.2	3.4	9.0	17.5	23.4
16	0.1	0.1	0.4	1.2	3.4	9.0	18.0	24.5
17	0.1	0.1	0.4	1.2	3.3	8.8	18.4	25.5
18	0.1	0.1	0.4	1.1	3.2	8.5	18.8	26.4
19	0.1	0.1	0.4	1.1	3.1	8.3	19.1	27.2
20	0.1	0.1	0.3	1.0	3.0	8.1	19.4	27.9
21	0.1	0.1	0.3	1.0	2.9	7.8	19.6	28.6
22	0.1	0.1	0.3	1.0	2.8	7.7	19.8	29.0
23	0.1	0.1	0.3	0.9	2.7	7.5	19.8	29.7
24	0.1	0.1	0.3	0.9	2.6	7.3	19.7	30.1
25	0.1	0.1	0.3	0.8	2.5	7.1	19.4	30.5
26	0.1	0.1	0.3	0.8	2.4	6.9	18.8	30.9
27	0.1	0.1	0.3	0.8	2.3	6.7	18.3	31.1
28	0.1	0.1	0.3	0.8	2.2	6.5	17.9	31.0
29	0.1	0.1	0.3	0.7	2.2	6.3	17.5	30.7
30	0.1	0.1	0.3	0.7	2.1	6.1	17.1	30.0
31	0.1	0.1	0.3	0.7	2.0	6.0	16.7	29.1
32	0.1	0.1	0.3	0.7	2.0	5.8	16.4	29.5
33	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8
34	0.1	0.1	0.3	0.6	1.8	5.4	15.6	27.3
35	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.7
36	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.2
37	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.7
38	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.1
39	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.6
40	0.1	0.1	0.3	0.6	1.5	4.5	13.3	24.0
41	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.4
42	0.1	0.1	0.3	0.6	1.5	4.2	12.6	22.8
43	0.1	0.2	0.3	0.6	1.4	4.1	12.3	22.2
44	0.1	0.2	0.3	0.6	1.4	4.0	11.9	21.7
45	0.1	0.2	0.3	0.6	1.4	3.9	11.6	21.1
46	0.1	0.2	0.3	0.6	1.4	3.8	11.2	20.6
47	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.1
48	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.6
49	0.1	0.2	0.3	0.7	1.4	3.5	10.4	19.1
50	0.1	0.2	0.3	0.7	1.4	3.4	10.1	18.6

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	3.4	9.8	18.1
52	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.6
53	0.1	0.2	0.3	0.7	1.4	3.3	9.3	17.3
54	0.1	0.2	0.3	0.7	1.4	3.2	9.0	16.8
55	0.1	0.2	0.3	0.7	1.4	3.2	8.8	16.4
56	0.1	0.2	0.3	0.7	1.4	3.2	8.6	16.0
57	0.1	0.2	0.4	0.7	1.4	3.2	8.4	15.5
58	0.1	0.2	0.4	0.7	1.5	3.1	8.2	15.1
59	0.1	0.2	0.4	0.7	1.5	3.1	8.1	14.7
60	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.4
61	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.1
62	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.8
63	0.1	0.2	0.4	0.8	1.5	3.1	7.6	13.5
64	0.1	0.2	0.4	0.8	1.5	3.2	7.5	13.3
65	0.1	0.2	0.4	0.8	1.6	3.2	7.5	13.0
66	0.1	0.2	0.4	0.8	1.6	3.2	7.5	12.8
67	0.1	0.2	0.4	0.8	1.6	3.3	7.4	12.7
68	0.1	0.2	0.4	0.8	1.6	3.3	7.4	12.5
69	0.1	0.2	0.4	0.8	1.6	3.4	7.3	12.3
70	0.1	0.2	0.4	0.8	1.7	3.4	7.3	12.2
71	0.1	0.2	0.4	0.8	1.7	3.4	7.3	12.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	12.1
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	12.1
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	12.0
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.9
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.9
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.9
78	0.1	0.2	0.4	0.9	1.9	3.7	7.7	11.9
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.0
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.7	5.8	8.2	10.3
2	0.1	0.2	0.7	1.9	3.8	6.2	8.7	10.9
3	0.1	0.2	0.7	1.8	3.9	6.5	9.3	11.6
4	0.1	0.2	0.7	1.8	4.0	6.9	10.0	12.3
5	0.1	0.2	0.6	1.7	4.0	7.2	10.7	13.1
6	0.1	0.2	0.6	1.6	4.1	7.6	11.4	14.0
7	0.1	0.2	0.6	1.6	4.1	7.8	12.2	14.9
8	0.1	0.2	0.6	1.6	4.1	8.1	12.9	15.9
9	0.1	0.2	0.5	1.5	4.1	8.3	13.7	16.9
10	0.1	0.2	0.5	1.5	3.9	8.4	14.5	18.0
11	0.1	0.2	0.5	1.4	3.8	8.6	15.2	19.2
12	0.1	0.2	0.5	1.4	3.7	8.7	15.9	20.2
13	0.1	0.2	0.5	1.3	3.6	8.9	16.5	21.4
14	0.1	0.1	0.4	1.3	3.5	9.0	17.1	22.6
15	0.1	0.1	0.4	1.2	3.4	9.0	17.6	23.7
16	0.1	0.1	0.4	1.2	3.3	8.9	18.1	24.7
17	0.1	0.1	0.4	1.1	3.2	8.7	18.4	25.7
18	0.1	0.1	0.4	1.1	3.1	8.4	18.8	26.6
19	0.1	0.1	0.4	1.0	3.0	8.2	19.1	27.4
20	0.1	0.1	0.3	1.0	2.9	8.0	19.4	28.1
21	0.1	0.1	0.3	1.0	2.8	7.8	19.6	28.6
22	0.1	0.1	0.3	0.9	2.7	7.6	19.8	29.2
23	0.1	0.1	0.3	0.9	2.6	7.4	19.7	29.7
24	0.1	0.1	0.3	0.9	2.5	7.2	19.5	30.2
25	0.1	0.1	0.3	0.8	2.5	7.0	19.1	30.6
26	0.1	0.1	0.3	0.8	2.4	6.8	18.5	30.9
27	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.9
28	0.1	0.1	0.3	0.7	2.2	6.4	17.6	30.8
29	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.3
30	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6
31	0.1	0.1	0.3	0.7	2.0	5.9	16.6	28.8
32	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1
33	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.5
34	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.9
35	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.4
36	0.1	0.1	0.3	0.6	1.7	5.0	14.6	26.0
37	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.4
38	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.8
39	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2
40	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6
41	0.1	0.1	0.3	0.6	1.5	4.3	12.8	23.1
42	0.1	0.1	0.3	0.6	1.5	4.2	12.4	22.5
43	0.1	0.2	0.3	0.6	1.4	4.0	12.1	21.9
44	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.4
45	0.1	0.2	0.3	0.6	1.4	3.8	11.4	20.8
46	0.1	0.2	0.3	0.6	1.4	3.7	11.1	20.3
47	0.1	0.2	0.3	0.6	1.4	3.6	10.8	19.8
48	0.1	0.2	0.3	0.6	1.4	3.5	10.5	19.3
49	0.1	0.2	0.3	0.7	1.4	3.5	10.2	18.8
50	0.1	0.2	0.3	0.7	1.4	3.4	9.9	18.3
51	0.1	0.2	0.3	0.7	1.4	3.3	9.6	17.8
52	0.1	0.2	0.3	0.7	1.4	3.3	9.4	17.4
53	0.1	0.2	0.3	0.7	1.4	3.2	9.1	17.0
54	0.1	0.2	0.3	0.7	1.4	3.2	8.9	16.6
55	0.1	0.2	0.3	0.7	1.4	3.2	8.7	16.1
56	0.1	0.2	0.3	0.7	1.4	3.2	8.5	15.7
57	0.1	0.2	0.4	0.7	1.4	3.1	8.3	15.3
58	0.1	0.2	0.4	0.7	1.5	3.1	8.1	14.9
59	0.1	0.2	0.4	0.7	1.5	3.1	8.0	14.5
60	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.2
61	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.9
62	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.6
63	0.1	0.2	0.4	0.8	1.5	3.1	7.5	13.3
64	0.1	0.2	0.4	0.8	1.5	3.2	7.4	13.1
65	0.1	0.2	0.4	0.8	1.6	3.2	7.4	12.9
66	0.1	0.2	0.4	0.8	1.6	3.2	7.4	12.7
67	0.1	0.2	0.4	0.8	1.6	3.3	7.4	12.5
68	0.1	0.2	0.4	0.8	1.6	3.3	7.3	12.3
69	0.1	0.2	0.4	0.8	1.6	3.4	7.3	12.2
70	0.1	0.2	0.4	0.8	1.7	3.4	7.3	12.1
71	0.1	0.2	0.4	0.8	1.7	3.4	7.3	12.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	12.0
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	12.0
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.9
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.9
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.9
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.9
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.9
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.0
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
98	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.7	5.9	8.3	10.4
2	0.1	0.2	0.7	1.9	3.8	6.3	8.9	11.1
3	0.1	0.2	0.7	1.8	3.9	6.6	9.5	11.8
4	0.1	0.2	0.6	1.7	4.0	7.0	10.1	12.5
5	0.1	0.2	0.6	1.7	4.0	7.3	10.8	13.3
6	0.1	0.2	0.6	1.6	4.1	7.6	11.6	14.2
7	0.1	0.2	0.6	1.6	4.1	7.9	12.4	15.1
8	0.1	0.2	0.5	1.5	4.1	8.1	13.1	16.1
9	0.1	0.2	0.5	1.5	4.0	8.3	13.9	17.2
10	0.1	0.2	0.5	1.4	3.9	8.5	14.7	18.3
11	0.1	0.2	0.5	1.4	3.7	8.6	15.4	19.4
12	0.1	0.2	0.5	1.3	3.6	8.8	16.1	20.5
13	0.1	0.2	0.4	1.3	3.5	8.9	16.7	21.7
14	0.1	0.1	0.4	1.2	3.4	8.9	17.2	22.9
15	0.1	0.1	0.4	1.2	3.4	8.9	17.7	24.0
16	0.1	0.1	0.4	1.2	3.3	8.8	18.1	25.0
17	0.1	0.1	0.4	1.1	3.2	8.6	18.5	25.9
18	0.1	0.1	0.4	1.1	3.1	8.3	18.9	26.8
19	0.1	0.1	0.3	1.0	3.0	8.1	19.2	27.5
20	0.1	0.1	0.3	1.0	2.9	7.9	19.4	28.2
21	0.1	0.1	0.3	1.0	2.8	7.7	19.6	28.8
22	0.1	0.1	0.3	0.9	2.7	7.5	19.7	29.3
23	0.1	0.1	0.3	0.9	2.6	7.3	19.6	29.8
24	0.1	0.1	0.3	0.9	2.5	7.1	19.4	30.2
25	0.1	0.1	0.3	0.8	2.4	6.9	18.9	30.6
26	0.1	0.1	0.3	0.8	2.3	6.7	18.3	30.8
27	0.1	0.1	0.3	0.8	2.3	6.5	17.9	30.8
28	0.1	0.1	0.3	0.7	2.2	6.3	17.4	30.6
29	0.1	0.1	0.3	0.7	2.1	6.1	17.0	30.0
30	0.1	0.1	0.3	0.7	2.0	6.0	16.7	29.1
31	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.4
32	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8
33	0.1	0.1	0.3	0.6	1.8	5.4	15.6	27.2
34	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6
35	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.1
36	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.6
37	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.1
38	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.5
39	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.9
40	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3
41	0.1	0.1	0.3	0.6	1.5	4.2	12.6	22.7
42	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.2
43	0.1	0.2	0.3	0.6	1.4	4.0	11.9	21.6
44	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.1
45	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5
46	0.1	0.2	0.3	0.6	1.4	3.6	10.9	20.0
47	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.6
48	0.1	0.2	0.3	0.6	1.4	3.5	10.4	19.0
49	0.1	0.2	0.3	0.7	1.4	3.4	10.1	18.5
50	0.1	0.2	0.3	0.7	1.4	3.3	9.8	18.0
51	0.1	0.2	0.3	0.7	1.4	3.3	9.5	17.6
52	0.1	0.2	0.3	0.7	1.4	3.2	9.2	17.2
53	0.1	0.2	0.3	0.7	1.4	3.2	9.0	16.8
54	0.1	0.2	0.3	0.7	1.4	3.2	8.8	16.3
55	0.1	0.2	0.3	0.7	1.4	3.2	8.6	15.9
56	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.4
57	0.1	0.2	0.4	0.7	1.4	3.1	8.2	15.0
58	0.1	0.2	0.4	0.7	1.5	3.1	8.0	14.6
59	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.3
60	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.0
61	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.7
62	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.4
63	0.1	0.2	0.4	0.8	1.5	3.1	7.4	13.2
64	0.1	0.2	0.4	0.8	1.5	3.2	7.4	12.9
65	0.1	0.2	0.4	0.8	1.6	3.2	7.4	12.7
66	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.6
67	0.1	0.2	0.4	0.8	1.6	3.3	7.3	12.4
68	0.1	0.2	0.4	0.8	1.6	3.3	7.3	12.2
69	0.1	0.2	0.4	0.8	1.6	3.4	7.2	12.1
70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0
72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	12.0
73	0.1	0.2	0.4	0.9	1.7	3.5	7.3	11.9
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.8
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.8
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.8
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.8
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.0
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.3	0.7	1.9	3.7	6.0	8.4	10.6
2	0.1	0.2	0.7	1.8	3.8	6.3	9.0	11.2
3	0.1	0.2	0.7	1.8	3.9	6.7	9.6	12.0
4	0.1	0.2	0.6	1.7	4.0	7.1	10.3	12.7
5	0.1	0.2	0.6	1.7	4.0	7.4	11.0	13.6
6	0.1	0.2	0.6	1.6	4.1	7.7	11.8	14.4
7	0.1	0.2	0.6	1.6	4.1	7.9	12.5	15.4
8	0.1	0.2	0.5	1.5	4.1	8.1	13.3	16.4
9	0.1	0.2	0.5	1.5	4.0	8.3	14.1	17.5
10	0.1	0.2	0.5	1.4	3.8	8.5	14.9	18.6
11	0.1	0.2	0.5	1.4	3.7	8.6	15.5	19.7
12	0.1	0.2	0.5	1.3	3.6	8.8	16.2	20.6
13	0.1	0.1	0.4	1.3	3.5	8.9	16.8	22.0
14	0.1	0.1	0.4	1.2	3.4	8.9	17.3	23.2
15	0.1	0.1	0.4	1.2	3.3	8.9	17.8	24.2
16	0.1	0.1	0.4	1.1	3.2	8.7	18.2	25.2
17	0.1	0.1	0.4	1.1	3.1	8.5	18.6	26.1
18	0.1	0.1	0.4	1.1	3.0	8.2	18.9	26.9
19	0.1	0.1	0.3	1.0	2.9	8.0	19.2	27.7
20	0.1	0.1	0.3	1.0	2.8	7.8	19.4	28.3
21	0.1	0.1	0.3	0.9	2.7	7.6	19.6	28.9
22	0.1	0.1	0.3	0.9	2.6	7.4	19.6	29.4
23	0.1	0.1	0.3	0.9	2.6	7.2	19.5	29.8
24	0.1	0.1	0.3	0.8	2.5	7.0	19.1	30.2
25	0.1	0.1	0.3	0.8	2.4	6.8	18.6	30.6
26	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.7
27	0.1	0.1	0.3	0.8	2.2	6.4	17.6	30.6
28	0.1	0.1	0.3	0.7	2.1	6.2	17.2	30.3
29	0.1	0.1	0.3	0.7	2.1	6.0	16.9	29.6
30	0.1	0.1	0.3	0.7	2.0	5.9	16.5	28.8
31	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1
32	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.5
33	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.9
34	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.3
35	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.9
36	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3
37	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.8
38	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.2
39	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6
40	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0
41	0.1	0.1	0.3	0.6	1.5	4.2	12.4	22.4
42	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.9
43	0.1	0.2	0.3	0.6	1.4	3.9	11.7	21.3
44	0.1	0.2	0.3	0.6	1.4	3.8	11.3	20.8
45	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2
46	0.1	0.2	0.3	0.6	1.4	3.6	10.8	19.8
47	0.1	0.2	0.3	0.6	1.4	3.5	10.5	19.3
48	0.1	0.2	0.3	0.6	1.4	3.4	10.2	18.7
49	0.1	0.2	0.3	0.7	1.3	3.4	9.9	18.2
50	0.1	0.2	0.3	0.7	1.3	3.3	9.6	17.7

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.3	3.3	9.3	17.3
52	0.1	0.2	0.3	0.7	1.4	3.2	9.1	16.9
53	0.1	0.2	0.3	0.7	1.4	3.2	8.8	16.5
54	0.1	0.2	0.3	0.7	1.4	3.2	8.6	16.1
55	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.6
56	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.2
57	0.1	0.2	0.4	0.7	1.4	3.1	8.1	14.8
58	0.1	0.2	0.4	0.7	1.5	3.1	7.9	14.4
59	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.1
60	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.8
61	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.5
62	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.2
63	0.1	0.2	0.4	0.8	1.5	3.1	7.4	13.0
64	0.1	0.2	0.4	0.8	1.5	3.2	7.4	12.8
65	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.6
66	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.4
67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.2
68	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.1
69	0.1	0.2	0.4	0.8	1.6	3.4	7.2	12.0
70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	12.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.9
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.8
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.8
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.7
76	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	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.7	1.9	3.7	6.1	8.6	10.7
2	0.1	0.2	0.7	1.8	3.8	6.4	9.2	11.4
3	0.1	0.2	0.6	1.7	3.9	6.8	9.8	12.1
4	0.1	0.2	0.6	1.7	4.0	7.1	10.5	12.9
5	0.1	0.2	0.6	1.6	4.0	7.4	11.2	13.8
6	0.1	0.2	0.6	1.6	4.1	7.7	12.0	14.7
7	0.1	0.2	0.6	1.5	4.1	8.0	12.7	15.6
8	0.1	0.2	0.5	1.5	4.0	8.2	13.5	16.6
9	0.1	0.2	0.5	1.4	3.9	8.4	14.2	17.7
10	0.1	0.2	0.5	1.4	3.8	8.5	15.0	18.9
11	0.1	0.2	0.5	1.3	3.7	8.7	15.7	20.0
12	0.1	0.2	0.4	1.3	3.6	8.8	16.3	21.1
13	0.1	0.1	0.4	1.3	3.5	8.9	16.9	22.3
14	0.1	0.1	0.4	1.2	3.4	8.9	17.4	23.4
15	0.1	0.1	0.4	1.2	3.3	8.8	17.9	24.5
16	0.1	0.1	0.4	1.1	3.2	8.6	18.2	25.4
17	0.1	0.1	0.4	1.1	3.1	8.3	18.6	26.3
18	0.1	0.1	0.4	1.0	3.0	8.1	18.9	27.1
19	0.1	0.1	0.3	1.0	2.9	7.9	19.2	27.8
20	0.1	0.1	0.3	1.0	2.8	7.7	19.4	28.4
21	0.1	0.1	0.3	0.9	2.7	7.5	19.6	28.9
22	0.1	0.1	0.3	0.9	2.6	7.3	19.5	29.4
23	0.1	0.1	0.3	0.9	2.5	7.1	19.3	29.9
24	0.1	0.1	0.3	0.8	2.4	6.9	18.9	30.2
25	0.1	0.1	0.3	0.8	2.3	6.7	18.3	30.5
26	0.1	0.1	0.3	0.8	2.3	6.5	17.9	30.6
27	0.1	0.1	0.3	0.7	2.2	6.3	17.4	30.4
28	0.1	0.1	0.3	0.7	2.1	6.2	17.0	30.0
29	0.1	0.1	0.3	0.7	2.0	6.0	16.7	29.2
30	0.1	0.1	0.3	0.7	2.0	5.8	16.4	28.4
31	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8
32	0.1	0.1	0.3	0.6	1.8	5.5	15.6	27.1
33	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6
34	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.1
35	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.6
36	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.0
37	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.4
38	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.9
39	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3
40	0.1	0.1	0.3	0.6	1.5	4.2	12.5	22.7
41	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1
42	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
43	0.1	0.2	0.3	0.6	1.4	3.8	11.5	21.0
44	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.5
45	0.1	0.2	0.3	0.6	1.4	3.6	10.9	20.0
46	0.1	0.2	0.3	0.6	1.4	3.5	10.6	19.5
47	0.1	0.2	0.3	0.6	1.3	3.5	10.3	19.0
48	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.4
49	0.1	0.2	0.3	0.7	1.3	3.3	9.7	17.9
50	0.1	0.2	0.3	0.7	1.3	3.3	9.5	17.5
51	0.1	0.2	0.3	0.7	1.3	3.2	9.2	17.1
52	0.1	0.2	0.3	0.7	1.4	3.2	8.9	16.7
53	0.1	0.2	0.3	0.7	1.4	3.1	8.7	16.3
54	0.1	0.2	0.3	0.7	1.4	3.1	8.5	15.8
55	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.4
56	0.1	0.2	0.3	0.7	1.4	3.1	8.1	15.0
57	0.1	0.2	0.4	0.7	1.4	3.1	8.0	14.6
58	0.1	0.2	0.4	0.7	1.5	3.1	7.8	14.2
59	0.1	0.2	0.4	0.7	1.5	3.1	7.7	13.9
60	0.1	0.2	0.4	0.7	1.5	3.1	7.6	13.6
61	0.1	0.2	0.4	0.7	1.5	3.1	7.5	13.3
62	0.1	0.2	0.4	0.7	1.5	3.1	7.4	13.1
63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.8
64	0.1	0.2	0.4	0.8	1.5	3.2	7.3	12.6
65	0.1	0.2	0.4	0.8	1.6	3.2	7.3	12.5
66	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.3
67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.1
68	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.0
69	0.1	0.2	0.4	0.8	1.6	3.4	7.2	11.9
70	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.9
72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.8
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.7
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.7
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.7
76	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	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND 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
2	0.1	0.2	0.7	1.8	3.8	6.5	9.3	11.6
3	0.1	0.2	0.6	1.7	3.9	6.9	10.0	12.3
4	0.1	0.2	0.6	1.7	4.0	7.2	10.7	13.1
5	0.1	0.2	0.6	1.6	4.0	7.5	11.4	14.0
6	0.1	0.2	0.6	1.6	4.1	7.8	12.2	14.9
7	0.1	0.2	0.5	1.5	4.0	8.0	12.9	15.9
8	0.1	0.2	0.5	1.5	4.0	8.2	13.6	16.9
9	0.1	0.2	0.5	1.4	3.9	8.4	14.4	18.0
10	0.1	0.2	0.5	1.4	3.7	8.5	15.2	19.2
11	0.1	0.2	0.5	1.3	3.6	8.7	15.8	20.2
12	0.1	0.2	0.4	1.3	3.5	8.8	16.5	21.4
13	0.1	0.1	0.4	1.2	3.4	8.8	17.0	22.6
14	0.1	0.1	0.4	1.2	3.3	8.8	17.5	23.7
15	0.1	0.1	0.4	1.1	3.2	8.7	17.9	24.7
16	0.1	0.1	0.4	1.1	3.1	8.5	18.3	25.6
17	0.1	0.1	0.4	1.1	3.0	8.2	18.7	26.5
18	0.1	0.1	0.3	1.0	2.9	8.0	19.0	27.2
19	0.1	0.1	0.3	1.0	2.8	7.8	19.2	27.9
20	0.1	0.1	0.3	0.9	2.7	7.6	19.4	28.5
21	0.1	0.1	0.3	0.9	2.7	7.4	19.5	29.0
22	0.1	0.1	0.3	0.9	2.6	7.2	19.4	29.5
23	0.1	0.1	0.3	0.8	2.5	7.0	19.1	29.9
24	0.1	0.1	0.3	0.8	2.4	6.8	18.6	30.3
25	0.1	0.1	0.3	0.8	2.3	6.6	18.1	30.5
26	0.1	0.1	0.3	0.8	2.2	6.5	17.6	30.5
27	0.1	0.1	0.3	0.7	2.2	6.3	17.2	30.2
28	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.6
29	0.1	0.1	0.3	0.7	2.0	5.9	16.5	28.8
30	0.1	0.1	0.3	0.7	1.9	5.7	16.2	28.1
31	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.4
32	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.8
33	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.3
34	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.8
35	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3
36	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.7
37	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.1
38	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.6
39	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0
40	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4
41	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.8
42	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.3
43	0.1	0.2	0.3	0.6	1.4	3.8	11.3	20.7
44	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2
45	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.7
46	0.1	0.2	0.3	0.6	1.3	3.5	10.5	19.2
47	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7
48	0.1	0.2	0.3	0.6	1.3	3.4	9.9	18.1
49	0.1	0.2	0.3	0.7	1.3	3.3	9.6	17.7
50	0.1	0.2	0.3	0.7	1.3	3.2	9.3	17.2

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.3	3.2	9.0	16.9
52	0.1	0.2	0.3	0.7	1.4	3.1	8.8	16.4
53	0.1	0.2	0.3	0.7	1.4	3.1	8.6	16.0
54	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.6
55	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.1
56	0.1	0.2	0.3	0.7	1.4	3.1	8.0	14.7
57	0.1	0.2	0.4	0.7	1.4	3.1	7.9	14.4
58	0.1	0.2	0.4	0.7	1.5	3.0	7.8	14.0
59	0.1	0.2	0.4	0.7	1.5	3.0	7.6	13.7
60	0.1	0.2	0.4	0.7	1.5	3.0	7.5	13.4
61	0.1	0.2	0.4	0.7	1.5	3.1	7.4	13.2
62	0.1	0.2	0.4	0.7	1.5	3.1	7.3	12.9
63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.7
64	0.1	0.2	0.4	0.8	1.5	3.2	7.3	12.5
65	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.3
66	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.2
67	0.1	0.2	0.4	0.8	1.6	3.3	7.2	12.0
68	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.9
69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.9
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.8
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.8
72	0.1	0.2	0.4	0.8	1.7	3.5	7.2	11.7
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.7
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.6
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.6
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.7	1.8	3.8	6.2	8.8	11.0
2	0.1	0.2	0.7	1.8	3.9	6.6	9.5	11.7
3	0.1	0.2	0.6	1.7	3.9	7.0	10.1	12.5
4	0.1	0.2	0.6	1.6	4.0	7.3	10.8	13.3
5	0.1	0.2	0.6	1.6	4.0	7.6	11.6	14.2
6	0.1	0.2	0.6	1.6	4.1	7.8	12.3	15.1
7	0.1	0.2	0.5	1.5	4.0	8.0	13.1	16.1
8	0.1	0.2	0.5	1.5	3.9	8.2	13.8	17.2
9	0.1	0.2	0.5	1.4	3.8	8.4	14.6	18.3
10	0.1	0.2	0.5	1.4	3.7	8.5	15.3	19.4
11	0.1	0.2	0.5	1.3	3.6	8.7	16.0	20.5
12	0.1	0.1	0.4	1.3	3.5	8.8	16.6	21.7
13	0.1	0.1	0.4	1.2	3.4	8.8	17.1	22.9
14	0.1	0.1	0.4	1.2	3.3	8.8	17.6	23.9
15	0.1	0.1	0.4	1.1	3.2	8.6	18.0	24.9
16	0.1	0.1	0.4	1.1	3.1	8.4	18.4	25.8
17	0.1	0.1	0.4	1.0	3.0	8.1	18.7	26.6
18	0.1	0.1	0.3	1.0	2.9	7.9	19.0	27.4
19	0.1	0.1	0.3	1.0	2.8	7.7	19.2	28.0
20	0.1	0.1	0.3	0.9	2.7	7.5	19.4	28.5
21	0.1	0.1	0.3	0.9	2.6	7.3	19.4	29.1
22	0.1	0.1	0.3	0.9	2.5	7.2	19.3	29.5
23	0.1	0.1	0.3	0.8	2.4	7.0	18.9	29.9
24	0.1	0.1	0.3	0.8	2.4	6.8	18.4	30.2
25	0.1	0.1	0.3	0.8	2.3	6.6	17.9	30.4
26	0.1	0.1	0.3	0.7	2.2	6.4	17.4	30.3
27	0.1	0.1	0.3	0.7	2.1	6.2	17.0	30.0
28	0.1	0.1	0.3	0.7	2.1	6.0	16.7	29.3
29	0.1	0.1	0.2	0.7	2.0	5.8	16.3	28.4
30	0.1	0.1	0.3	0.7	1.9	5.6	16.0	27.8
31	0.1	0.1	0.3	0.6	1.8	5.5	15.6	27.1
32	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.5
33	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.0
34	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.6
35	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.0
36	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.4
37	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.8
38	0.1	0.1	0.3	0.5	1.5	4.4	12.9	23.3
39	0.1	0.1	0.3	0.6	1.5	4.2	12.5	22.7
40	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1
41	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
42	0.1	0.1	0.3	0.6	1.4	3.8	11.5	21.0
43	0.1	0.2	0.3	0.6	1.4	3.7	11.2	20.4
44	0.1	0.2	0.3	0.6	1.4	3.6	10.9	19.9
45	0.1	0.2	0.3	0.6	1.4	3.5	10.6	19.5
46	0.1	0.2	0.3	0.6	1.3	3.5	10.3	18.9
47	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.4
48	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.9
49	0.1	0.2	0.3	0.7	1.3	3.3	9.4	17.4
50	0.1	0.2	0.3	0.7	1.3	3.2	9.2	17.0
51	0.1	0.2	0.3	0.7	1.3	3.1	8.9	16.6
52	0.1	0.2	0.3	0.7	1.4	3.1	8.7	16.2
53	0.1	0.2	0.3	0.7	1.4	3.1	8.5	15.8
54	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.3
55	0.1	0.2	0.3	0.7	1.4	3.1	8.1	14.9
56	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.5
57	0.1	0.2	0.4	0.7	1.4	3.0	7.8	14.2
58	0.1	0.2	0.4	0.7	1.5	3.0	7.7	13.9
59	0.1	0.2	0.4	0.7	1.5	3.0	7.6	13.5
60	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.3
61	0.1	0.2	0.4	0.7	1.5	3.1	7.3	13.0
62	0.1	0.2	0.4	0.7	1.5	3.1	7.3	12.8
63	0.1	0.2	0.4	0.8	1.5	3.1	7.3	12.6
64	0.1	0.2	0.4	0.8	1.5	3.2	7.2	12.4
65	0.1	0.2	0.4	0.8	1.6	3.2	7.2	12.2
66	0.1	0.2	0.4	0.8	1.6	3.2	7.1	12.0
67	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.9
68	0.1	0.2	0.4	0.8	1.6	3.3	7.1	11.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.8
71	0.1	0.2	0.4	0.9	1.7	3.4	7.2	11.7
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.6
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.6
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.6
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.6
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.6	1.7	3.9	6.7	9.6	11.9
3	0.1	0.2	0.6	1.7	3.9	7.0	10.3	12.7
4	0.1	0.2	0.6	1.6	4.0	7.3	11.0	13.5
5	0.1	0.2	0.6	1.6	4.0	7.6	11.8	14.4
6	0.1	0.2	0.6	1.6	4.0	7.9	12.5	15.3
7	0.1	0.2	0.5	1.5	4.0	8.1	13.2	16.4
8	0.1	0.2	0.5	1.4	3.9	8.2	14.0	17.4
9	0.1	0.2	0.5	1.4	3.7	8.4	14.8	18.6
10	0.1	0.2	0.5	1.3	3.6	8.6	15.5	19.7
11	0.1	0.2	0.4	1.3	3.5	8.7	16.1	20.8
12	0.1	0.1	0.4	1.2	3.4	8.8	16.7	22.0
13	0.1	0.1	0.4	1.2	3.3	9.0	17.2	23.1
14	0.1	0.1	0.4	1.2	3.3	9.1	17.7	24.1
15	0.1	0.1	0.4	1.1	3.2	8.6	18.0	25.1
16	0.1	0.1	0.4	1.1	3.1	8.3	18.4	26.0
17	0.1	0.1	0.3	1.0	3.0	8.0	18.7	26.8
18	0.1	0.1	0.3	1.0	2.9	7.8	19.0	27.5
19	0.1	0.1	0.3	1.0	2.8	7.6	19.2	28.0
20	0.1	0.1	0.3	0.9	2.7	7.4	19.4	28.6
21	0.1	0.1	0.3	0.9	2.6	7.3	19.3	29.1
22	0.1	0.1	0.3	0.8	2.5	7.1	19.1	29.6
23	0.1	0.1	0.3	0.8	2.4	6.9	18.7	29.9
24	0.1	0.1	0.3	0.8	2.3	6.7	18.1	30.2
25	0.1	0.1	0.3	0.8	2.2	6.5	17.7	30.3
26	0.1	0.1	0.3	0.7	2.2	6.3	17.2	30.1
27	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.7
28	0.1	0.1	0.3	0.7	2.0	5.9	16.5	28.9
29	0.1	0.1	0.3	0.7	2.0	5.7	16.2	28.1
30	0.1	0.1	0.3	0.7	1.9	5.5	15.8	27.4
31	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.8
32	0.1	0.1	0.3	0.6	1.7	5.2	15.0	26.3
33	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.8
34	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3
35	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.7
36	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.1
37	0.1	0.1	0.3	0.6	1.5	4.4	13.1	23.5
38	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0
39	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4
40	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.8
41	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.2
42	0.1	0.1	0.3	0.6	1.4	3.8	11.3	20.7
43	0.1	0.2	0.3	0.6	1.4	3.7	11.0	20.2
44	0.1	0.2	0.3	0.6	1.4	3.6	10.7	19.7
45	0.1	0.2	0.3	0.6	1.3	3.5	10.5	19.2
46	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7
47	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.1
48	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6
49	0.1	0.2	0.3	0.7	1.3	3.2	9.3	17.2
50	0.1	0.2	0.3	0.7	1.3	3.2	9.0	16.8
51	0.1	0.2	0.3	0.7	1.4	3.1	8.8	16.4
52	0.1	0.2	0.3	0.7	1.4	3.1	8.6	16.0
53	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.5
54	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.1
55	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.7
56	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.3
57	0.1	0.2	0.4	0.7	1.4	3.0	7.7	14.0
58	0.1	0.2	0.4	0.7	1.5	3.0	7.6	13.7
59	0.1	0.2	0.4	0.7	1.5	3.0	7.5	13.4
60	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.1
61	0.1	0.2	0.4	0.7	1.5	3.1	7.3	12.8
62	0.1	0.2	0.4	0.7	1.5	3.1	7.2	12.6
63	0.1	0.2	0.4	0.8	1.5	3.1	7.2	12.4
64	0.1	0.2	0.4	0.8	1.5	3.2	7.2	12.3
65	0.1	0.2	0.4	0.8	1.6	3.2	7.1	12.1
66	0.1	0.2	0.4	0.8	1.6	3.2	7.1	11.9
67	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	11.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.1	11.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.7
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.6
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.6
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.5
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.5
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.9	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.7	1.8	3.8	6.4	9.1	11.3
2	0.1	0.2	0.6	1.7	3.9	6.8	9.8	12.1
3	0.1	0.2	0.6	1.7	3.9	7.1	10.4	12.9
4	0.1	0.2	0.6	1.6	4.0	7.4	11.2	13.7
5	0.1	0.2	0.6	1.6	4.0	7.7	11.9	14.6
6	0.1	0.2	0.5	1.5	4.0	7.9	12.7	15.6
7	0.1	0.2	0.5	1.5	4.0	8.1	13.4	16.6
8	0.1	0.2	0.5	1.4	3.8	8.3	14.2	17.7
9	0.1	0.2	0.5	1.4	3.7	8.4	14.9	18.8
10	0.1	0.2	0.5	1.3	3.6	9.6	15.6	19.9
11	0.1	0.1	0.4	1.3	3.5	8.7	16.2	21.1
12	0.1	0.1	0.4	1.2	3.4	8.8	16.8	22.2
13	0.1	0.1	0.4	1.2	3.3	8.8	17.3	23.4
14	0.1	0.1	0.4	1.1	3.2	8.7	17.7	24.4
15	0.1	0.1	0.4	1.1	3.1	8.5	18.1	25.3
16	0.1	0.1	0.4	1.1	3.0	8.2	18.5	26.1
17	0.1	0.1	0.3	1.0	2.9	7.9	18.8	26.9
18	0.1	0.1	0.3	1.0	2.8	7.7	19.0	27.6
19	0.1	0.1	0.3	0.9	2.7	7.5	19.2	28.1
20	0.1	0.1	0.3	0.9	2.6	7.3	19.3	28.7
21	0.1	0.1	0.3	0.9	2.5	7.2	19.2	29.2
22	0.1	0.1	0.3	0.8	2.5	7.0	19.0	29.6
23	0.1	0.1	0.3	0.8	2.4	6.8	18.5	29.9
24	0.1	0.1	0.3	0.8	2.3	6.6	17.9	30.2
25	0.1	0.1	0.3	0.7	2.2	6.4	17.5	30.2
26	0.1	0.1	0.3	0.7	2.1	6.2	17.1	29.9
27	0.1	0.1	0.3	0.7	2.1	6.0	16.7	29.3
28	0.1	0.1	0.3	0.7	2.0	5.8	16.3	28.5
29	0.1	0.1	0.2	0.7	1.9	5.6	16.0	27.8
30	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.1
31	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.5
32	0.1	0.1	0.3	0.6	1.7	5.1	14.8	26.0
33	0.1	0.1	0.3	0.6	1.7	4.9	14.4	25.5
34	0.1	0.1	0.3	0.6	1.6	4.8	14.0	25.0
35	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.4
36	0.1	0.1	0.3	0.5	1.5	4.5	13.2	23.8
37	0.1	0.1	0.3	0.5	1.5	4.4	12.9	23.3
38	0.1	0.1	0.3	0.6	1.5	4.2	12.5	22.7
39	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1
40	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
41	0.1	0.1	0.3	0.6	1.4	3.8	11.5	21.0
42	0.1	0.1	0.3	0.6	1.4	3.7	11.2	20.4
43	0.1	0.2	0.3	0.6	1.4	3.6	10.8	19.9
44	0.1	0.2	0.3	0.6	1.3	3.5	10.6	19.4
45	0.1	0.2	0.3	0.6	1.3	3.4	10.3	19.0
46	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.6
47	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.9
48	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.4
49	0.1	0.2	0.3	0.7	1.3	3.2	9.1	17.0
50	0.1	0.2	0.3	0.7	1.3	3.1	8.9	16.6
51	0.1	0.2	0.3	0.7	1.4	3.1	8.7	16.2
52	0.1	0.2	0.3	0.7	1.4	3.1	8.5	15.7
53	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.3
54	0.1	0.2	0.3	0.7	1.4	3.0	8.1	14.9
55	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.5
56	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.1
57	0.1	0.2	0.4	0.7	1.4	3.0	7.6	13.8
58	0.1	0.2	0.4	0.7	1.5	3.0	7.5	13.5
59	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.2
60	0.1	0.2	0.4	0.7	1.5	3.0	7.3	12.9
61	0.1	0.2	0.4	0.7	1.5	3.1	7.2	12.7
62	0.1	0.2	0.4	0.7	1.5	3.1	7.2	12.5
63	0.1	0.2	0.4	0.8	1.5	3.1	7.2	12.3
64	0.1	0.2	0.4	0.8	1.5	3.2	7.1	12.1
65	0.1	0.2	0.4	0.8	1.6	3.2	7.1	12.0
66	0.1	0.2	0.4	0.8	1.6	3.2	7.1	11.8
67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.7
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.7
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.6
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.5
72	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	11.5
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.5
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.9	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMP, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.7	1.5	3.8	6.5	9.3	11.5
2	0.1	0.2	0.6	1.7	3.9	5.8	9.9	12.3
3	0.1	0.2	0.6	1.6	3.9	7.2	10.6	13.1
4	0.1	0.2	0.6	1.6	4.0	7.4	11.3	13.9
5	0.1	0.2	0.6	1.5	4.0	7.7	12.1	14.8
6	0.1	0.2	0.5	1.5	4.0	7.9	12.8	15.8
7	0.1	0.2	0.5	1.5	3.9	8.1	13.6	16.9
8	0.1	0.2	0.5	1.4	3.8	8.3	14.4	18.0
9	0.1	0.2	0.5	1.4	3.7	8.4	15.1	19.1
10	0.1	0.2	0.5	1.3	3.6	8.6	15.8	20.2
11	0.1	0.1	0.4	1.3	3.4	8.7	16.4	21.3
12	0.1	0.1	0.4	1.2	3.4	8.7	16.9	22.5
13	0.1	0.1	0.4	1.2	3.3	8.7	17.4	23.6
14	0.1	0.1	0.4	1.1	3.2	8.6	17.8	24.6
15	0.1	0.1	0.4	1.1	3.1	8.3	18.2	25.5
16	0.1	0.1	0.4	1.0	3.0	8.1	18.5	26.3
17	0.1	0.1	0.3	1.0	2.9	7.8	19.8	27.0
18	0.1	0.1	0.3	1.0	2.8	7.6	19.0	27.7
19	0.1	0.1	0.3	0.9	2.7	7.4	19.2	28.2
20	0.1	0.1	0.3	0.9	2.6	7.3	19.2	28.8
21	0.1	0.1	0.3	0.9	2.5	7.1	19.1	29.2
22	0.1	0.1	0.3	0.8	2.4	6.9	18.8	29.6
23	0.1	0.1	0.3	0.8	2.3	6.7	18.2	29.9
24	0.1	0.1	0.3	0.8	2.3	6.5	17.7	30.1
25	0.1	0.1	0.3	0.7	2.2	6.3	17.3	30.0
26	0.1	0.1	0.3	0.7	2.1	6.1	16.9	29.7
27	0.1	0.1	0.3	0.7	2.0	5.9	16.5	29.0
28	0.1	0.1	0.3	0.7	2.0	5.7	16.2	28.1
29	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.5
30	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.8
31	0.1	0.1	0.3	0.6	1.8	5.2	15.0	26.3
32	0.1	0.1	0.3	0.6	1.7	5.0	14.6	25.7
33	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.3
34	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.7
35	0.1	0.1	0.3	0.6	1.5	4.6	13.5	24.1
36	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.6
37	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0
38	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4
39	0.1	0.1	0.3	0.6	1.4	4.0	12.1	21.8
40	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.2
41	0.1	0.1	0.3	0.6	1.4	3.8	11.3	20.7
42	0.1	0.1	0.3	0.6	1.4	3.7	11.0	20.2
43	0.1	0.2	0.3	0.6	1.3	3.6	10.7	19.7
44	0.1	0.2	0.3	0.6	1.3	3.5	10.4	19.2
45	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7
46	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.1
47	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6
48	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2
49	0.1	0.2	0.3	0.7	1.3	3.2	9.0	16.8
50	0.1	0.2	0.3	0.7	1.3	3.1	8.8	16.4
51	0.1	0.2	0.3	0.7	1.4	3.1	8.6	16.9
52	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.5
53	0.1	0.2	0.3	0.7	1.4	3.1	8.1	15.1
54	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	7.8	14.3
56	0.1	0.2	0.3	0.7	1.4	3.0	7.7	13.9
57	0.1	0.2	0.4	0.7	1.4	3.0	7.6	13.6
58	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.3
59	0.1	0.2	0.4	0.7	1.5	3.0	7.3	13.0
60	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.8
61	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	12.4
63	0.1	0.2	0.4	0.8	1.5	3.1	7.1	12.2
64	0.1	0.2	0.4	0.8	1.5	3.2	7.1	12.0
65	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.8
66	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7
67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.7
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.7
69	0.1	0.2	0.4	0.9	1.6	3.4	7.0	11.6
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.5
71	0.1	0.2	0.4	0.9	1.7	3.4	7.2	11.5
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.7	3.8	6.6	9.4	11.7
2	0.1	0.2	0.6	1.7	3.9	6.9	10.1	12.4
3	0.1	0.2	0.6	1.6	3.9	7.2	10.8	13.2
4	0.1	0.2	0.6	1.6	4.0	7.5	11.5	14.1
5	0.1	0.2	0.6	1.5	4.0	7.7	12.2	15.0
6	0.1	0.2	0.5	1.5	4.0	8.0	13.0	16.0
7	0.1	0.2	0.5	1.4	3.9	8.1	13.8	17.1
8	0.1	0.2	0.5	1.4	3.7	8.3	14.5	18.2
9	0.1	0.2	0.5	1.3	3.6	8.5	15.2	19.3
10	0.1	0.2	0.4	1.3	3.5	8.6	15.9	20.4
11	0.1	0.1	0.4	1.2	3.4	8.7	16.5	21.6
12	0.1	0.1	0.4	1.2	3.3	8.7	17.0	22.8
13	0.1	0.1	0.4	1.2	3.2	8.7	17.4	23.8
14	0.1	0.1	0.4	1.1	3.1	8.5	17.8	24.8
15	0.1	0.1	0.4	1.1	3.0	8.2	18.2	25.6
16	0.1	0.1	0.3	1.0	2.9	8.0	18.5	26.4
17	0.1	0.1	0.3	1.0	2.8	7.8	18.8	27.1
18	0.1	0.1	0.3	0.9	2.7	7.5	19.0	27.7
19	0.1	0.1	0.3	0.9	2.7	7.4	19.2	29.3
20	0.1	0.1	0.3	0.9	2.6	7.2	19.2	28.8
21	0.1	0.1	0.3	0.8	2.5	7.0	19.0	29.2
22	0.1	0.1	0.3	0.8	2.4	6.8	18.6	29.6
23	0.1	0.1	0.3	0.8	2.3	6.6	18.0	29.9
24	0.1	0.1	0.3	0.8	2.2	6.4	17.5	30.0
25	0.1	0.1	0.3	0.7	2.1	6.2	17.1	29.8
26	0.1	0.1	0.3	0.7	2.1	6.0	16.7	29.4
27	0.1	0.1	0.3	0.7	2.0	5.8	16.3	28.6
28	0.1	0.1	0.3	0.7	1.9	5.7	16.0	27.8
29	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.2
30	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.6
31	0.1	0.1	0.3	0.6	1.7	5.2	14.8	26.0
32	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.5
33	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.0
34	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.4
35	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.9
36	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3
37	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7
38	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1
39	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
40	0.1	0.1	0.3	0.6	1.4	3.8	11.5	21.0
41	0.1	0.1	0.3	0.6	1.4	3.7	11.2	20.4
42	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.9
43	0.1	0.2	0.3	0.6	1.3	3.5	10.6	19.4
44	0.1	0.2	0.3	0.6	1.3	3.4	10.3	18.9
45	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.4
46	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.9
47	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.4
48	0.1	0.2	0.3	0.6	1.3	3.2	9.1	17.0
49	0.1	0.2	0.3	0.7	1.3	3.1	8.9	16.6
50	0.1	0.2	0.3	0.7	1.3	3.1	8.7	16.2
51	0.1	0.2	0.3	0.7	1.4	3.1	8.4	15.7
52	0.1	0.2	0.3	0.7	1.4	3.1	8.2	15.3
53	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.9
54	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.4
55	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1
56	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.8
57	0.1	0.2	0.4	0.7	1.4	3.0	7.5	13.5
58	0.1	0.2	0.4	0.7	1.5	3.0	7.4	13.2
59	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.9
60	0.1	0.2	0.4	0.7	1.5	3.1	7.2	12.6
61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.4
62	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.2
63	0.1	0.2	0.4	0.8	1.5	3.1	7.1	12.1
64	0.1	0.2	0.4	0.8	1.5	3.2	7.0	11.9
65	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7
66	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7
67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6
69	0.1	0.2	0.4	0.9	1.6	3.4	7.0	11.5
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.4
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.4
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.7	3.8	6.6	9.5	11.9
2	0.1	0.2	0.6	1.7	3.9	7.0	10.2	12.6
3	0.1	0.2	0.6	1.6	3.9	7.3	10.9	13.4
4	0.1	0.2	0.6	1.6	4.0	7.5	11.7	14.3
5	0.1	0.2	0.5	1.5	4.0	7.8	12.4	15.3
6	0.1	0.2	0.5	1.5	3.9	8.0	13.2	16.3
7	0.1	0.2	0.5	1.4	3.8	8.2	13.9	17.4
8	0.1	0.2	0.5	1.4	3.7	8.3	14.7	18.5
9	0.1	0.2	0.5	1.3	3.6	8.5	15.4	19.6
10	0.1	0.1	0.4	1.3	3.5	8.6	16.0	20.7
11	0.1	0.1	0.4	1.2	3.4	8.7	16.6	21.9
12	0.1	0.1	0.4	1.2	3.3	8.7	17.1	23.0
13	0.1	0.1	0.4	1.1	3.2	8.6	17.5	24.0
14	0.1	0.1	0.4	1.1	3.1	8.4	17.9	24.9
15	0.1	0.1	0.4	1.1	3.0	8.1	18.2	25.8
16	0.1	0.1	0.3	1.0	2.9	7.9	18.5	26.6
17	0.1	0.1	0.3	1.0	2.8	7.7	18.8	27.3
18	0.1	0.1	0.3	0.9	2.7	7.5	19.0	27.8
19	0.1	0.1	0.3	0.9	2.6	7.3	19.1	28.4
20	0.1	0.1	0.3	0.9	2.5	7.1	19.1	28.9
21	0.1	0.1	0.3	0.8	2.4	6.9	18.8	29.3
22	0.1	0.1	0.3	0.8	2.4	6.7	18.4	29.6
23	0.1	0.1	0.3	0.8	2.3	6.5	17.8	29.9
24	0.1	0.1	0.3	0.7	2.2	6.3	17.3	29.9
25	0.1	0.1	0.3	0.7	2.1	6.1	16.9	29.6
26	0.1	0.1	0.3	0.7	2.0	5.9	16.5	29.1
27	0.1	0.1	0.3	0.7	2.0	5.8	16.2	29.2
28	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.5
29	0.1	0.1	0.3	0.6	1.8	5.4	15.5	26.9
30	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.3
31	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.7
32	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.3
33	0.1	0.1	0.3	0.6	1.6	4.7	13.9	24.7
34	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2
35	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.6
36	0.1	0.1	0.3	0.6	1.5	4.3	12.7	23.0
37	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4
38	0.1	0.1	0.3	0.6	1.4	4.0	12.1	21.8
39	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.3
40	0.1	0.1	0.3	0.6	1.4	3.8	11.4	20.7
41	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.2
42	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.7
43	0.1	0.2	0.3	0.6	1.3	3.5	10.4	19.2
44	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7
45	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.1
46	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6
47	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2
48	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.7
49	0.1	0.2	0.3	0.7	1.3	3.1	8.8	16.4
50	0.1	0.2	0.3	0.7	1.3	3.1	8.5	15.9
51	0.1	0.2	0.3	0.7	1.4	3.1	8.3	15.5
52	0.1	0.2	0.3	0.7	1.4	3.0	8.1	15.1
53	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.6
54	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.2
55	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.9
56	0.1	0.2	0.3	0.7	1.4	3.0	7.5	13.6
57	0.1	0.2	0.4	0.7	1.4	3.0	7.4	13.3
58	0.1	0.2	0.4	0.7	1.5	3.0	7.3	13.0
59	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.7
60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.5
61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.3
62	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.1
63	0.1	0.2	0.4	0.8	1.5	3.1	7.0	12.0
64	0.1	0.2	0.4	0.8	1.5	3.2	7.0	11.8
65	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.7
66	0.1	0.2	0.4	0.8	1.6	3.2	7.0	11.6
67	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.5
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.4
70	0.1	0.2	0.4	0.9	1.7	3.4	7.1	11.4
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.4
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.4
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.7	3.8	6.7	9.7	12.0
2	0.1	0.2	0.6	1.6	3.9	7.0	10.4	12.8
3	0.1	0.2	0.6	1.6	4.0	7.3	11.1	13.6
4	0.1	0.2	0.6	1.5	4.0	7.6	11.8	14.5
5	0.1	0.2	0.5	1.5	4.0	7.8	12.6	15.5
6	0.1	0.2	0.5	1.5	3.9	8.0	13.3	16.5
7	0.1	0.2	0.5	1.4	3.8	8.2	14.1	17.6
8	0.1	0.2	0.5	1.4	3.7	8.4	14.8	18.7
9	0.1	0.2	0.5	1.3	3.5	8.5	15.5	19.8
10	0.1	0.1	0.4	1.3	3.4	8.6	16.1	20.9
11	0.1	0.1	0.4	1.2	3.3	8.7	16.7	22.1
12	0.1	0.1	0.4	1.2	3.3	8.6	17.2	23.2
13	0.1	0.1	0.4	1.1	3.2	8.5	17.6	24.2
14	0.1	0.1	0.4	1.1	3.1	8.3	17.9	25.1
15	0.1	0.1	0.3	1.0	3.0	8.0	18.3	26.0
16	0.1	0.1	0.3	1.0	2.9	7.8	18.6	26.7
17	0.1	0.1	0.3	1.0	2.8	7.6	18.8	27.3
18	0.1	0.1	0.3	0.9	2.7	7.4	19.0	27.9
19	0.1	0.1	0.3	0.9	2.6	7.2	19.1	28.4
20	0.1	0.1	0.3	0.9	2.5	7.0	19.0	28.9
21	0.1	0.1	0.3	0.8	2.4	6.9	18.7	29.3
22	0.1	0.1	0.3	0.8	2.3	6.7	18.1	29.6
23	0.1	0.1	0.3	0.8	2.2	6.5	17.6	29.8
24	0.1	0.1	0.3	0.7	2.2	6.3	17.1	29.7
25	0.1	0.1	0.3	0.7	2.1	6.1	16.7	29.4
26	0.1	0.1	0.3	0.7	2.0	5.9	16.4	28.8
27	0.1	0.1	0.3	0.7	1.9	5.7	16.0	27.9
28	0.1	0.1	0.3	0.6	1.9	5.5	15.7	27.2
29	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.6
30	0.1	0.1	0.3	0.6	1.7	5.2	14.9	26.0
31	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.5
32	0.1	0.1	0.3	0.6	1.6	4.8	14.1	25.0
33	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.5
34	0.1	0.1	0.3	0.6	1.5	4.6	13.3	23.9
35	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.3
36	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7
37	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1
38	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.6
39	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0
40	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.4
41	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.9
42	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4
43	0.1	0.2	0.3	0.6	1.3	3.4	10.3	19.0
44	0.1	0.2	0.3	0.6	1.3	3.4	10.0	18.4
45	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.9
46	0.1	0.2	0.3	0.5	1.3	3.2	9.4	17.4
47	0.1	0.2	0.3	0.6	1.3	3.2	9.2	16.9
48	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.6
49	0.1	0.2	0.3	0.7	1.3	3.1	8.6	16.2
50	0.1	0.2	0.3	0.7	1.3	3.0	8.4	15.7
51	0.1	0.2	0.3	0.7	1.4	3.0	8.2	15.3
52	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.9
53	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.4
54	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1
55	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.7
56	0.1	0.2	0.3	0.7	1.4	3.0	7.4	13.4
57	0.1	0.2	0.4	0.7	1.4	3.0	7.3	13.1
58	0.1	0.2	0.4	0.7	1.5	3.0	7.2	12.8
59	0.1	0.2	0.4	0.7	1.5	3.0	7.1	12.6
60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.4
61	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.2
62	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.0
63	0.1	0.2	0.4	0.8	1.5	3.1	7.0	11.8
64	0.1	0.2	0.4	0.8	1.5	3.2	6.9	11.7
65	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.6
66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.5
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.5
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.4
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.4
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.3
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.3
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.7	3.8	6.8	9.8	12.1
2	0.1	0.2	0.6	1.6	3.9	7.1	10.5	12.9
3	0.1	0.2	0.6	1.6	4.0	7.4	11.2	13.8
4	0.1	0.2	0.6	1.5	4.0	7.6	12.0	14.7
5	0.1	0.2	0.5	1.5	3.9	7.9	12.7	15.7
6	0.1	0.2	0.5	1.4	3.9	8.0	13.5	16.7
7	0.1	0.2	0.5	1.4	3.7	8.2	14.3	17.9
8	0.1	0.2	0.5	1.3	3.6	8.4	15.0	19.0
9	0.1	0.2	0.4	1.3	3.5	8.5	15.6	20.1
TEMPERATURE 10	0.1	0.1	0.4	1.2	3.4	8.6	16.2	21.2
11	0.1	0.1	0.4	1.2	3.3	8.6	16.8	22.4
12	0.1	0.1	0.4	1.1	3.2	8.6	17.2	23.4
13	0.1	0.1	0.4	1.1	3.1	8.5	17.6	24.4
14	0.1	0.1	0.4	1.1	3.0	8.2	18.0	25.3
15	0.1	0.1	0.3	1.0	2.9	7.9	18.3	26.1
16	0.1	0.1	0.3	1.0	2.8	7.7	18.6	26.8
17	0.1	0.1	0.3	0.9	2.7	7.5	18.8	27.4
18	0.1	0.1	0.3	0.9	2.6	7.3	19.0	28.0
19	0.1	0.1	0.3	0.9	2.5	7.2	19.0	28.5
20	0.1	0.1	0.3	0.8	2.5	7.0	18.8	28.9
21	0.1	0.1	0.3	0.8	2.4	6.8	18.5	29.3
22	0.1	0.1	0.3	0.8	2.3	6.6	17.9	29.6
DEGREES 23	0.1	0.1	0.3	0.7	2.2	6.4	17.4	29.7
24	0.1	0.1	0.3	0.7	2.1	6.2	17.0	29.6
25	0.1	0.1	0.3	0.7	2.1	6.0	16.6	29.2
26	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.4
27	0.1	0.1	0.3	0.7	1.9	5.6	15.9	27.6
28	0.1	0.1	0.3	0.6	1.8	5.4	15.5	26.9
29	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.3
30	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.8
FAHR 31	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.3
32	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.8
33	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.2
34	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.6
35	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.0
36	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.5
37	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9
38	0.1	0.1	0.3	0.6	1.4	3.9	11.8	21.3
39	0.1	0.1	0.3	0.6	1.4	3.8	11.4	20.7
40	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.2
41	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.7
42	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.2
43	0.1	0.2	0.3	0.6	1.3	3.4	10.2	18.7
44	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.2
45	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.6
46	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2
47	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.7
48	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4
49	0.1	0.2	0.3	0.7	1.3	3.0	8.5	15.9
50	0.1	0.2	0.3	0.7	1.3	3.0	8.3	15.5

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	3.0	8.1	15.1
52	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.6
53	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.2
54	0.1	0.2	0.3	0.7	1.4	3.0	7.6	13.9
55	0.1	0.2	0.3	0.7	1.4	3.0	7.5	13.6
56	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.3
57	0.1	0.2	0.4	0.7	1.4	3.0	7.3	13.0
58	0.1	0.2	0.4	0.7	1.5	3.0	7.1	12.7
59	0.1	0.2	0.4	0.7	1.5	3.0	7.1	12.5
TEMPERATURE 60	0.1	0.2	0.4	0.7	1.5	3.1	7.1	12.3
61	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.1
62	0.1	0.2	0.4	0.7	1.5	3.1	7.0	11.9
63	0.1	0.2	0.4	0.8	1.5	3.1	6.9	11.7
64	0.1	0.2	0.4	0.8	1.5	3.2	6.9	11.6
65	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.5
66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.5
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.4
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.4
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.3
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.3
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.3
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
DEGREES 73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.3
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.9	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
FAHR 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.6	1.6	3.9	7.1	10.7	13.1
3	0.1	0.2	0.6	1.6	4.0	7.4	11.4	14.0
4	0.1	0.2	0.5	1.5	4.0	7.7	12.1	14.9
5	0.1	0.2	0.5	1.5	3.9	7.9	12.9	15.9
6	0.1	0.2	0.5	1.4	3.8	8.1	13.6	17.0
7	0.1	0.2	0.5	1.4	3.7	8.2	14.4	18.1
8	0.1	0.2	0.5	1.3	3.6	8.4	15.1	19.2
9	0.1	0.1	0.4	1.3	3.5	8.5	15.7	20.3
10	0.1	0.1	0.4	1.2	3.4	8.6	16.3	21.4
11	0.1	0.1	0.4	1.2	3.3	8.6	16.8	22.6
12	0.1	0.1	0.4	1.1	3.2	8.5	17.3	23.6
13	0.1	0.1	0.4	1.1	3.1	8.4	17.7	24.6
14	0.1	0.1	0.4	1.0	3.0	8.1	18.0	25.4
15	0.1	0.1	0.3	1.0	2.9	7.9	18.3	26.2
16	0.1	0.1	0.3	1.0	2.8	7.6	18.6	26.9
17	0.1	0.1	0.3	0.9	2.7	7.4	18.8	27.5
18	0.1	0.1	0.3	0.9	2.6	7.3	19.0	28.1
19	0.1	0.1	0.3	0.9	2.5	7.1	18.9	28.5
20	0.1	0.1	0.3	0.8	2.4	6.9	18.7	29.0
21	0.1	0.1	0.3	0.8	2.4	6.7	18.3	29.3
22	0.1	0.1	0.3	0.8	2.3	6.5	17.7	29.6
23	0.1	0.1	0.3	0.7	2.2	6.3	17.2	29.6
24	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.4
25	0.1	0.1	0.3	0.7	2.0	5.9	16.4	28.9
26	0.1	0.1	0.3	0.7	2.0	5.7	16.0	28.0
27	0.1	0.1	0.3	0.7	1.9	5.5	15.7	27.3
28	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.7
29	0.1	0.1	0.3	0.6	1.8	5.2	14.9	26.1
30	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.5
31	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.0
32	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.5
33	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.0
34	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.4
35	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.8
36	0.1	0.1	0.3	0.6	1.4	4.1	12.3	22.2
37	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.6
38	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0
39	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.5
40	0.1	0.1	0.3	0.6	1.3	3.6	10.9	20.0
41	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4
42	0.1	0.1	0.3	0.6	1.3	3.4	10.3	19.0
43	0.1	0.2	0.3	0.6	1.3	3.4	10.1	18.5
44	0.1	0.2	0.3	0.6	1.3	3.3	9.8	17.9
45	0.1	0.2	0.3	0.6	1.3	3.2	9.5	17.4
46	0.1	0.2	0.3	0.6	1.3	3.2	9.2	17.0
47	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.5
48	0.1	0.2	0.3	0.6	1.3	3.1	8.7	16.2
49	0.1	0.2	0.3	0.7	1.3	3.0	8.4	15.7
50	0.1	0.2	0.3	0.7	1.3	3.0	8.2	15.3
51	0.1	0.2	0.3	0.7	1.4	3.0	8.0	14.9
52	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.4
53	0.1	0.2	0.3	0.7	1.4	3.0	7.7	14.1
54	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7
55	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
56	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1
57	0.1	0.2	0.4	0.7	1.4	3.0	7.2	12.8
58	0.1	0.2	0.4	0.7	1.5	3.0	7.1	12.6
59	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.3
60	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.1
61	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.0
62	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.8
63	0.1	0.2	0.4	0.8	1.5	3.1	6.9	11.6
64	0.1	0.2	0.4	0.8	1.5	3.2	6.9	11.5
65	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.4
66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.4
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.4
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.3
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.2
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.2
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.2
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.3
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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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							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.6	3.9	6.9	10.1	12.5
2	0.1	0.2	0.6	1.6	3.9	7.2	10.6	13.3
3	0.1	0.2	0.5	1.5	3.9	7.5	11.6	14.2
4	0.1	0.2	0.5	1.5	3.9	7.7	12.3	15.1
5	0.1	0.2	0.5	1.5	3.9	7.9	13.0	16.1
6	0.1	0.2	0.5	1.4	3.8	8.1	13.9	17.2
7	0.1	0.2	0.5	1.4	3.6	8.3	14.6	18.3
8	0.1	0.2	0.5	1.3	3.5	8.4	15.2	19.4
9	0.1	0.1	0.4	1.3	3.4	8.5	15.9	20.5
T 10	0.1	0.1	0.4	1.2	3.3	8.6	16.4	21.7
C 11	0.1	0.1	0.4	1.2	3.3	8.6	16.9	22.8
1 12	0.1	0.1	0.4	1.1	3.2	8.5	17.3	23.8
P 13	0.1	0.1	0.4	1.1	3.1	8.3	17.7	24.7
E 14	0.1	0.1	0.3	1.0	3.0	8.0	18.1	25.6
R 15	0.1	0.1	0.3	1.0	2.9	7.8	18.3	25.4
A 16	0.1	0.1	0.3	1.0	2.8	7.6	18.6	27.0
T 17	0.1	0.1	0.3	0.9	2.7	7.4	18.8	27.8
U 18	0.1	0.1	0.3	0.9	2.6	7.2	18.9	28.1
R 19	0.1	0.1	0.3	0.9	2.5	7.0	18.8	28.0
E 20	0.1	0.1	0.3	0.8	2.4	6.8	18.5	28.0
, 21	0.1	0.1	0.2	0.8	2.3	6.6	18.0	29.3
22	0.1	0.1	0.3	0.8	2.2	6.4	17.5	29.5
D 23	0.1	0.1	0.3	0.7	2.1	6.2	17.0	29.5
E 24	0.1	0.1	0.3	0.7	2.1	6.0	16.6	29.2
G 25	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.6
R 26	0.1	0.1	0.3	0.7	1.9	5.7	15.9	27.7
E 27	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.0
E 28	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.4
S 29	0.1	0.1	0.3	0.6	1.7	5.1	14.8	25.9
30	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.2
F 31	0.1	0.1	0.3	0.6	1.6	4.8	14.0	24.8
A 32	0.1	0.1	0.3	0.6	1.6	4.6	13.6	24.3
H 33	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.7
R 34	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.1
F 35	0.1	0.1	0.3	0.6	1.4	4.2	12.5	22.5
N 36	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9
H 37	0.1	0.1	0.3	0.6	1.4	3.9	11.8	21.4
E 38	0.1	0.1	0.3	0.6	1.4	3.8	11.5	20.8
I 39	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.2
T 40	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.7
41	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2
42	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8
43	0.1	0.2	0.3	0.6	1.3	3.3	9.9	18.2
44	0.1	0.2	0.3	0.6	1.3	3.3	9.6	17.7
45	0.1	0.2	0.3	0.6	1.3	3.2	9.3	17.2
46	0.1	0.2	0.3	0.6	1.3	3.1	9.1	16.8
47	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4
48	0.1	0.2	0.3	0.6	1.3	3.0	8.5	16.0
49	0.1	0.2	0.3	0.7	1.3	3.0	8.3	15.5
50	0.1	0.2	0.3	0.7	1.3	3.0	8.1	15.1

	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	3.0	7.9	14.7
52	0.1	0.2	0.3	0.7	1.4	2.9	7.8	14.2
53	0.1	0.2	0.3	0.7	1.4	2.9	7.6	13.9
54	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.6
55	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.2
56	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.9
57	0.1	0.2	0.4	0.7	1.4	3.0	7.1	12.7
58	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.4
59	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.2
T 60	0.1	0.2	0.4	0.7	1.5	3.1	7.0	12.0
F 61	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.9
M 62	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.7
F 63	0.1	0.2	0.4	0.8	1.5	3.1	6.9	11.5
F 64	0.1	0.2	0.4	0.8	1.5	3.2	6.9	11.4
R 65	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.4
A 66	0.1	0.2	0.4	0.8	1.6	3.2	6.9	11.4
T 67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.3
U 68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.2
R 69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.2
E 70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.2
, 71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.2
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
D 73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
E 74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
G 75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
R 76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
E 77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
E 78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
S 79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
F 81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
A 82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
H 83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
R 84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
F 85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
N 86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
H 87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
E 88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
I 89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
T 90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.6	1.6	3.9	7.2	11.0	13.5
3	0.1	0.2	0.6	1.5	3.9	7.5	11.7	14.4
4	0.1	0.2	0.5	1.5	3.9	7.7	12.4	15.3
5	0.1	0.2	0.5	1.4	3.9	7.9	13.2	16.3
6	0.1	0.2	0.5	1.4	3.7	8.1	14.0	17.4
7	0.1	0.2	0.5	1.3	3.6	8.3	14.7	18.6
8	0.1	0.2	0.4	1.3	3.5	8.4	15.4	19.6
9	0.1	0.1	0.4	1.2	3.4	8.5	16.0	20.8
10	0.1	0.1	0.4	1.2	3.3	8.6	16.5	21.9
11	0.1	0.1	0.4	1.1	3.2	8.5	17.0	23.0
12	0.1	0.1	0.4	1.1	3.1	8.4	17.4	24.0
13	0.1	0.1	0.4	1.1	3.0	8.2	17.8	24.9
14	0.1	0.1	0.3	1.0	2.9	7.9	18.1	25.7
15	0.1	0.1	0.3	1.0	2.8	7.7	18.4	26.5
16	0.1	0.1	0.3	0.9	2.7	7.5	18.6	27.1
17	0.1	0.1	0.3	0.9	2.6	7.3	18.8	27.6
18	0.1	0.1	0.3	0.9	2.5	7.1	18.8	28.2
19	0.1	0.1	0.3	0.8	2.5	6.9	18.7	28.6
20	0.1	0.1	0.3	0.8	2.4	6.7	18.4	29.0
21	0.1	0.1	0.3	0.8	2.3	6.5	17.8	29.3
22	0.1	0.1	0.3	0.7	2.2	6.3	17.3	29.5
23	0.1	0.1	0.3	0.7	2.1	6.2	16.9	29.3
24	0.1	0.1	0.3	0.7	2.0	6.0	16.5	29.0
25	0.1	0.1	0.3	0.7	2.0	5.8	16.1	28.3
26	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.4
27	0.1	0.1	0.3	0.6	1.8	5.4	15.4	26.8
28	0.1	0.1	0.3	0.6	1.8	5.3	15.0	26.1
29	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.6
30	0.1	0.1	0.3	0.6	1.6	4.9	14.2	25.1
31	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.6
32	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.0
33	0.1	0.1	0.3	0.6	1.5	4.5	13.0	23.4
34	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.9
35	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.3
36	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.7
37	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.1
38	0.1	0.1	0.3	0.6	1.3	3.8	11.3	20.6
39	0.1	0.1	0.3	0.6	1.3	3.7	10.9	20.0
40	0.1	0.1	0.3	0.6	1.3	3.6	10.6	19.5
41	0.1	0.1	0.3	0.6	1.3	3.5	10.3	19.0
42	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.5
43	0.1	0.2	0.3	0.6	1.3	3.3	9.8	18.0
44	0.1	0.2	0.3	0.6	1.3	3.2	9.5	17.5
45	0.1	0.2	0.3	0.6	1.3	3.2	9.2	17.0
46	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.6
47	0.1	0.2	0.3	0.6	1.3	3.0	8.7	16.2
48	0.1	0.2	0.3	0.6	1.3	3.0	8.4	15.8
49	0.1	0.2	0.3	0.7	1.3	3.0	8.2	15.3
50	0.1	0.2	0.3	0.7	1.3	3.0	8.0	14.9
51	0.1	0.2	0.3	0.7	1.4	3.0	7.8	14.5
52	0.1	0.2	0.3	0.7	1.4	2.9	7.7	14.1
53	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7
54	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
55	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1
56	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.8
57	0.1	0.2	0.4	0.7	1.4	3.0	7.1	12.5
58	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.3
59	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.1
60	0.1	0.2	0.4	0.7	1.5	3.1	7.0	11.9
61	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.8
62	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.6
63	0.1	0.2	0.4	0.8	1.5	3.1	6.8	11.4
64	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.4
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.4
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.3
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.2
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.2
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.1
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.1
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.6	3.9	7.0	10.4	12.8
2	0.1	0.2	0.6	1.6	3.9	7.3	11.1	13.6
3	0.1	0.2	0.5	1.5	3.9	7.5	11.9	14.5
4	0.1	0.2	0.5	1.5	3.9	7.8	12.6	15.5
5	0.1	0.2	0.5	1.4	3.8	8.0	13.3	16.6
6	0.1	0.2	0.5	1.4	3.7	8.1	14.1	17.7
7	0.1	0.2	0.5	1.3	3.6	8.3	14.8	18.9
8	0.1	0.1	0.4	1.3	3.5	8.4	15.5	19.9
9	0.1	0.1	0.4	1.2	3.4	8.5	16.1	21.0
10	0.1	0.1	0.4	1.2	3.3	8.5	16.6	22.2
11	0.1	0.1	0.4	1.1	3.2	8.5	17.1	23.2
12	0.1	0.1	0.4	1.1	3.1	8.4	17.4	24.2
13	0.1	0.1	0.4	1.0	3.0	8.1	17.8	25.1
14	0.1	0.1	0.3	1.0	2.9	7.8	18.1	25.9
15	0.1	0.1	0.3	1.0	2.8	7.6	18.4	26.6
16	0.1	0.1	0.3	0.9	2.7	7.4	19.6	27.2
17	0.1	0.1	0.3	0.9	2.6	7.2	18.8	27.7
18	0.1	0.1	0.3	0.9	2.5	7.1	18.8	28.2
19	0.1	0.1	0.3	0.8	2.4	6.9	18.6	28.6
20	0.1	0.1	0.3	0.8	2.3	6.7	18.2	29.0
21	0.1	0.1	0.3	0.8	2.3	6.5	17.6	29.3
22	0.1	0.1	0.3	0.7	2.2	6.3	17.1	29.4
23	0.1	0.1	0.3	0.7	2.1	6.1	16.7	29.2
24	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.7
25	0.1	0.1	0.3	0.7	2.0	5.7	15.9	27.9
26	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.2
27	0.1	0.1	0.3	0.6	1.8	5.3	15.2	26.5
28	0.1	0.1	0.3	0.6	1.7	5.2	14.8	25.9
29	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.3
30	0.1	0.1	0.3	0.6	1.6	4.8	14.1	24.8
31	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.3
32	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.8
33	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.2
34	0.1	0.1	0.3	0.6	1.4	4.3	12.5	22.6
35	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.0
36	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.4
37	0.1	0.1	0.3	0.6	1.4	3.8	11.5	20.9
38	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.3
39	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.8
40	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.3
41	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8
42	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3
43	0.1	0.2	0.3	0.6	1.3	3.3	9.7	17.7
44	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.2
45	0.1	0.2	0.3	0.6	1.3	3.1	9.1	16.8
46	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4
47	0.1	0.2	0.3	0.6	1.3	3.0	8.6	16.0
48	0.1	0.2	0.3	0.6	1.3	3.0	8.3	15.6
49	0.1	0.2	0.3	0.7	1.3	3.0	8.1	15.1
50	0.1	0.2	0.3	0.7	1.3	3.0	7.9	14.7

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.9	7.8	14.3
52	0.1	0.2	0.3	0.7	1.4	2.9	7.6	13.9
53	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.6
54	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.2
55	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.9
56	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.7
57	0.1	0.2	0.4	0.7	1.4	3.0	7.0	12.4
58	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.2
59	0.1	0.2	0.4	0.7	1.5	3.0	7.0	12.0
60	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.8
61	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.6
62	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.5
63	0.1	0.2	0.4	0.8	1.5	3.1	6.8	11.4
64	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.3
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.3
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.2
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.2
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.1
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.1
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.1
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.6	1.5	3.9	7.3	11.3	13.8
3	0.1	0.2	0.5	1.5	3.9	7.6	12.0	14.7
4	0.1	0.2	0.5	1.5	3.9	7.8	12.7	15.7
5	0.1	0.2	0.5	1.4	3.8	8.0	13.5	16.8
6	0.1	0.2	0.5	1.4	3.7	8.1	14.3	17.9
7	0.1	0.2	0.5	1.3	3.5	8.3	15.0	19.0
8	0.1	0.1	0.4	1.3	3.4	8.4	15.6	20.1
9	0.1	0.1	0.4	1.2	3.3	8.5	16.2	21.2
10	0.1	0.1	0.4	1.2	3.2	8.5	16.7	22.4
11	0.1	0.1	0.4	1.1	3.2	8.5	17.1	23.4
12	0.1	0.1	0.4	1.1	3.1	8.3	17.5	24.4
13	0.1	0.1	0.3	1.0	3.0	8.0	17.9	25.2
14	0.1	0.1	0.3	1.0	2.9	7.8	18.2	26.0
15	0.1	0.1	0.3	1.0	2.8	7.5	18.4	26.7
16	0.1	0.1	0.3	0.9	2.7	7.3	18.6	27.2
17	0.1	0.1	0.3	0.9	2.6	7.2	18.7	27.8
18	0.1	0.1	0.3	0.8	2.5	7.0	18.7	28.3
19	0.1	0.1	0.3	0.8	2.4	6.8	18.5	28.7
20	0.1	0.1	0.3	0.8	2.3	6.6	18.0	29.0
21	0.1	0.1	0.3	0.8	2.2	6.4	17.4	29.3
22	0.1	0.1	0.3	0.7	2.1	6.2	17.0	29.3
23	0.1	0.1	0.3	0.7	2.1	6.0	16.5	29.0
24	0.1	0.1	0.3	0.7	2.0	5.8	16.2	28.4
25	0.1	0.1	0.3	0.7	1.9	5.6	15.8	27.6
26	0.1	0.1	0.3	0.6	1.9	5.5	15.5	26.9
27	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2
28	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.6
29	0.1	0.1	0.3	0.6	1.7	4.9	14.3	25.1
30	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.6
31	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.1
32	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.5
33	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.9
34	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4
35	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.8
36	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.2
37	0.1	0.1	0.3	0.6	1.3	3.8	11.4	20.6
38	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.1
39	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.6
40	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.1
41	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6
42	0.1	0.1	0.3	0.6	1.3	3.3	9.8	18.1
43	0.1	0.2	0.3	0.6	1.3	3.2	9.5	17.5
44	0.1	0.2	0.3	0.6	1.3	3.2	9.2	17.0
45	0.1	0.2	0.3	0.6	1.3	3.1	9.0	16.6
46	0.1	0.2	0.3	0.6	1.3	3.0	8.7	16.2
47	0.1	0.2	0.3	0.6	1.3	3.0	8.5	15.8
48	0.1	0.2	0.3	0.6	1.3	3.0	8.2	15.4
49	0.1	0.2	0.3	0.7	1.3	3.0	8.0	14.9
50	0.1	0.2	0.3	0.7	1.3	2.9	7.8	14.5
51	0.1	0.2	0.3	0.7	1.4	2.9	7.7	14.1
52	0.1	0.2	0.3	0.7	1.4	2.9	7.5	13.7
53	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
54	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.1
55	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.8
56	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.5
57	0.1	0.2	0.4	0.7	1.4	3.0	7.0	12.3
58	0.1	0.2	0.4	0.7	1.5	3.0	6.9	12.1
59	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.9
60	0.1	0.2	0.4	0.7	1.5	3.1	6.9	11.7
61	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.5
62	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.4
63	0.1	0.2	0.4	0.8	1.5	3.1	6.8	11.3
64	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.3
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.2
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.2
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.1
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.1
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.1
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.1
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.6	1.5	3.9	7.4	11.4	14.0
3	0.1	0.2	0.5	1.5	3.9	7.6	12.1	14.9
4	0.1	0.2	0.5	1.4	3.9	7.8	12.9	15.9
5	0.1	0.2	0.5	1.4	3.8	8.0	13.6	17.0
6	0.1	0.2	0.5	1.3	3.6	8.2	14.4	18.1
7	0.1	0.2	0.4	1.3	3.5	8.3	15.1	19.2
8	0.1	0.1	0.4	1.2	3.4	8.4	15.7	20.3
9	0.1	0.1	0.4	1.2	3.3	8.5	16.2	21.5
10	0.1	0.1	0.4	1.1	3.2	8.5	16.7	22.6
11	0.1	0.1	0.4	1.1	3.1	8.4	17.2	23.6
12	0.1	0.1	0.4	1.1	3.0	8.2	17.5	24.5
13	0.1	0.1	0.3	1.0	2.9	7.9	17.9	25.4
14	0.1	0.1	0.3	1.0	2.8	7.7	18.2	26.1
15	0.1	0.1	0.3	0.9	2.7	7.5	18.4	26.7
16	0.1	0.1	0.3	0.9	2.6	7.3	18.6	27.3
17	0.1	0.1	0.3	0.9	2.5	7.1	18.7	27.8
18	0.1	0.1	0.3	0.8	2.5	6.9	18.6	28.3
19	0.1	0.1	0.3	0.8	2.4	6.7	18.3	28.7
20	0.1	0.1	0.3	0.8	2.3	6.5	17.8	29.0
21	0.1	0.1	0.3	0.7	2.2	6.3	17.2	29.2
22	0.1	0.1	0.3	0.7	2.1	6.1	16.8	29.1
23	0.1	0.1	0.3	0.7	2.0	5.9	16.4	28.8
24	0.1	0.1	0.3	0.7	2.0	5.7	16.0	28.1
25	0.1	0.1	0.3	0.6	1.9	5.6	15.7	27.3
26	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.6
27	0.1	0.1	0.3	0.6	1.8	5.2	14.9	26.0
28	0.1	0.1	0.3	0.6	1.7	5.1	14.5	25.4
29	0.1	0.1	0.3	0.6	1.6	4.9	14.1	24.9
30	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.4
31	0.1	0.1	0.3	0.6	1.5	4.6	13.3	23.9
32	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.3
33	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7
34	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.1
35	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
36	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0
37	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.4
38	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.9
39	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.3
40	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.8
41	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.4
42	0.1	0.1	0.3	0.6	1.3	3.3	9.7	17.8
43	0.1	0.2	0.3	0.6	1.3	3.2	9.4	17.3
44	0.1	0.2	0.3	0.6	1.3	3.1	9.1	16.8
45	0.1	0.2	0.3	0.6	1.3	3.1	8.8	16.4
46	0.1	0.2	0.3	0.6	1.3	3.0	8.6	16.0
47	0.1	0.2	0.3	0.6	1.3	3.0	8.4	15.6
48	0.1	0.2	0.3	0.6	1.3	3.0	8.1	15.2
49	0.1	0.2	0.3	0.7	1.3	3.0	7.9	14.7
50	0.1	0.2	0.3	0.7	1.3	2.9	7.8	14.3
51	0.1	0.2	0.3	0.7	1.4	2.9	7.6	13.9
52	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.6
53	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.3
54	0.1	0.2	0.3	0.7	1.4	2.9	7.2	12.9
55	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.7
56	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.4
57	0.1	0.2	0.4	0.7	1.4	3.0	6.9	12.2
58	0.1	0.2	0.4	0.7	1.5	3.0	6.9	12.0
59	0.1	0.2	0.4	0.7	1.5	3.0	6.9	11.8
60	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.6
61	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.4
62	0.1	0.2	0.4	0.7	1.5	3.1	6.8	11.3
63	0.1	0.2	0.4	0.8	1.5	3.1	6.8	11.2
64	0.1	0.2	0.4	0.8	1.5	3.2	6.8	11.2
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.2
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.1
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	11.0
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	11.0
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	11.0
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

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

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.5	3.9	7.2	10.9	13.4
2	0.1	0.2	0.5	1.5	3.9	7.5	11.7	14.3
3	0.1	0.2	0.5	1.5	3.9	7.7	12.4	15.3
4	0.1	0.2	0.5	1.4	3.8	7.9	13.2	16.3
5	0.1	0.2	0.5	1.4	3.7	8.0	13.9	17.5
6	0.1	0.2	0.5	1.3	3.5	8.2	14.7	18.5
7	0.1	0.1	0.4	1.3	3.4	8.3	15.3	19.6
8	0.1	0.1	0.4	1.2	3.3	8.4	15.9	20.8
9	0.1	0.1	0.4	1.2	3.2	8.5	16.4	21.9
10	0.1	0.1	0.4	1.1	3.2	8.4	16.9	23.0
11	0.1	0.1	0.4	1.1	3.1	8.3	17.3	23.9
12	0.1	0.1	0.4	1.0	3.0	8.0	17.6	24.8
13	0.1	0.1	0.3	1.0	2.9	7.7	17.9	25.6
14	0.1	0.1	0.3	1.0	2.8	7.5	18.2	26.3
15	0.1	0.1	0.3	0.9	2.7	7.3	18.4	26.9
16	0.1	0.1	0.3	0.9	2.6	7.1	18.6	27.4
17	0.1	0.1	0.3	0.9	2.5	7.0	18.6	27.9
18	0.1	0.1	0.3	0.8	2.4	6.8	18.4	28.4
19	0.1	0.1	0.3	0.8	2.3	6.6	17.9	28.7
20	0.1	0.1	0.3	0.7	2.2	6.4	17.4	29.0
21	0.1	0.1	0.3	0.7	2.1	6.2	16.9	29.0
22	0.1	0.1	0.3	0.7	2.1	6.0	16.5	28.8
23	0.1	0.1	0.3	0.7	2.0	5.8	16.1	28.3
24	0.1	0.1	0.3	0.7	1.9	5.6	15.7	27.5
25	0.1	0.1	0.3	0.6	1.9	5.4	15.4	26.9
26	0.1	0.1	0.3	0.6	1.8	5.3	15.0	26.1
27	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.5
28	0.1	0.1	0.3	0.6	1.7	4.9	14.2	25.0
29	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.5
30	0.1	0.1	0.3	0.6	1.5	4.6	13.4	24.0
31	0.1	0.1	0.3	0.6	1.5	4.5	13.0	23.4
32	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8
33	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2
34	0.1	0.1	0.3	0.6	1.4	4.0	12.0	21.6
35	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.1
36	0.1	0.1	0.3	0.6	1.3	3.8	11.3	20.5
37	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.9
38	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4
39	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.9
40	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.4
41	0.1	0.1	0.3	0.6	1.3	3.3	9.8	17.9
42	0.1	0.1	0.3	0.6	1.3	3.2	9.5	17.4
43	0.1	0.2	0.3	0.6	1.3	3.1	9.2	16.9
44	0.1	0.2	0.3	0.6	1.3	3.1	8.9	16.4
45	0.1	0.2	0.3	0.6	1.3	3.0	8.6	16.1
46	0.1	0.2	0.3	0.6	1.3	3.0	8.4	15.7
47	0.1	0.2	0.3	0.6	1.3	2.9	8.2	15.2
48	0.1	0.2	0.3	0.6	1.3	2.9	8.0	14.8
49	0.1	0.2	0.3	0.7	1.3	2.9	7.8	14.4
50	0.1	0.2	0.3	0.7	1.3	2.9	7.6	14.0

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.6
52	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.3
53	0.1	0.2	0.3	0.7	1.4	2.9	7.2	13.0
54	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.7
55	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.4
56	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.2
57	0.1	0.2	0.4	0.7	1.4	3.0	6.9	11.9
58	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.8
59	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.6
60	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.4
61	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.3
62	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2
63	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.2
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	11.1
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.9
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.9
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.9
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.1
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.5	1.5	3.9	7.5	11.8	14.5
3	0.1	0.2	0.5	1.4	3.8	7.7	12.5	15.5
4	0.1	0.2	0.5	1.4	3.8	7.9	13.3	16.5
5	0.1	0.2	0.5	1.3	3.6	8.1	14.1	17.7
6	0.1	0.2	0.4	1.3	3.5	8.2	14.8	18.7
7	0.1	0.1	0.4	1.2	3.4	8.3	15.4	19.8
8	0.1	0.1	0.4	1.2	3.3	8.4	16.0	21.0
9	0.1	0.1	0.4	1.2	3.2	8.4	16.5	22.1
10	0.1	0.1	0.4	1.1	3.1	8.4	16.9	23.2
11	0.1	0.1	0.4	1.1	3.0	8.2	17.3	24.1
12	0.1	0.1	0.3	1.0	2.9	7.9	17.7	24.9
13	0.1	0.1	0.3	1.0	2.8	7.7	18.0	25.7
14	0.1	0.1	0.3	0.9	2.7	7.5	18.2	26.4
15	0.1	0.1	0.3	0.9	2.6	7.3	18.4	27.0
16	0.1	0.1	0.3	0.9	2.5	7.1	18.6	27.5
17	0.1	0.1	0.3	0.8	2.4	6.9	18.5	28.0
18	0.1	0.1	0.3	0.8	2.4	6.7	18.2	28.4
19	0.1	0.1	0.3	0.8	2.3	6.5	17.8	28.7
20	0.1	0.1	0.3	0.7	2.2	6.3	17.2	29.0
21	0.1	0.1	0.3	0.7	2.1	6.1	16.7	28.9
22	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.7
23	0.1	0.1	0.3	0.7	2.0	5.7	15.9	28.1
24	0.1	0.1	0.3	0.6	1.9	5.5	15.6	27.2
25	0.1	0.1	0.3	0.6	1.8	5.4	15.3	26.5
26	0.1	0.1	0.3	0.6	1.8	5.2	14.9	25.9
27	0.1	0.1	0.3	0.6	1.7	5.0	14.5	25.3
28	0.1	0.1	0.3	0.6	1.6	4.9	14.1	24.8
29	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.3
30	0.1	0.1	0.3	0.6	1.5	4.5	13.3	23.7
31	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.2
32	0.1	0.1	0.3	0.6	1.4	4.3	12.5	22.6
33	0.1	0.1	0.3	0.6	1.4	4.1	12.2	22.0
34	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.4
35	0.1	0.1	0.3	0.6	1.3	3.8	11.5	20.8
36	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.3
37	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.7
38	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2
39	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.7
40	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.2
41	0.1	0.1	0.3	0.6	1.3	3.2	9.6	17.7
42	0.1	0.1	0.3	0.6	1.3	3.2	9.3	17.2
43	0.1	0.2	0.3	0.6	1.3	3.1	9.1	16.7
44	0.1	0.2	0.3	0.6	1.3	3.0	8.8	16.3
45	0.1	0.2	0.3	0.6	1.3	3.0	8.5	15.9
46	0.1	0.2	0.3	0.6	1.3	3.0	8.3	15.5
47	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.0
48	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.6
49	0.1	0.2	0.3	0.7	1.3	2.9	7.7	14.2
50	0.1	0.2	0.3	0.7	1.3	2.9	7.5	13.8

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.9	7.4	13.4
52	0.1	0.2	0.3	0.7	1.4	2.9	7.2	13.1
53	0.1	0.2	0.3	0.7	1.4	2.9	7.1	12.8
54	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.5
55	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.3
56	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.0
57	0.1	0.2	0.4	0.7	1.4	3.0	6.8	11.8
58	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.7
59	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.5
60	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.3
61	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2
62	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.1
63	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.1
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	11.1
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	11.0
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.9
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.9
69	0.1	0.2	0.4	0.9	1.6	3.4	7.0	10.9
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
72	0.1	0.2	0.4	0.9	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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ATMOSPHERIC ABSORPTION COEFFICIENTS IN DB PER 1000 FT FOR FULL OCTAVE BANDS OF NOISE AS A FUNCTION OF TEMPERATURE FOR 88 PERCENT RELATIVE HUMIDITY

TEMPERATURE, °F	BAND CENTER FREQUENCY, Hz							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.6	1.5	3.9	7.3	11.2	13.8
2	0.1	0.2	0.5	1.5	3.9	7.5	11.9	14.7
3	0.1	0.2	0.5	1.4	3.8	7.7	12.7	15.7
4	0.1	0.2	0.5	1.4	3.7	7.9	13.6	16.8
5	0.1	0.2	0.5	1.3	3.6	8.1	14.2	17.9
6	0.1	0.2	0.4	1.3	3.5	8.2	14.9	18.9
7	0.1	0.1	0.4	1.2	3.4	8.3	15.5	20.1
8	0.1	0.1	0.4	1.2	3.3	8.4	16.1	21.2
9	0.1	0.1	0.4	1.1	3.2	8.4	16.6	22.3
10	0.1	0.1	0.4	1.1	3.1	8.3	17.0	23.3
11	0.1	0.1	0.4	1.1	3.0	8.1	17.4	24.2
12	0.1	0.1	0.3	1.0	2.9	7.8	17.7	25.1
13	0.1	0.1	0.3	1.0	2.8	7.6	18.0	25.8
14	0.1	0.1	0.3	0.9	2.7	7.4	18.2	26.5
15	0.1	0.1	0.3	0.9	2.6	7.2	18.4	27.0
16	0.1	0.1	0.3	0.9	2.5	7.0	18.5	27.6
17	0.1	0.1	0.3	0.8	2.4	6.8	18.6	28.0
18	0.1	0.1	0.3	0.8	2.3	6.6	18.1	28.4
19	0.1	0.1	0.3	0.9	2.3	6.4	17.5	28.7
20	0.1	0.1	0.3	0.7	2.2	6.2	17.0	28.9
21	0.1	0.1	0.3	0.7	2.1	6.1	16.6	29.0
22	0.1	0.1	0.3	0.7	2.0	5.9	16.2	28.5
23	0.1	0.1	0.3	0.7	1.9	5.7	15.8	27.8
24	0.1	0.1	0.3	0.6	1.9	5.5	15.5	26.9
25	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.3
26	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.6
27	0.1	0.1	0.3	0.6	1.7	5.0	14.3	25.1
28	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.6
29	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.1
30	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.5
31	0.1	0.1	0.3	0.6	1.5	4.4	12.8	22.9
32	0.1	0.1	0.3	0.6	1.4	4.2	12.4	22.4
33	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.8
34	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.2
35	0.1	0.1	0.3	0.6	1.3	3.8	11.4	20.6
36	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.1
37	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.5
38	0.1	0.1	0.3	0.6	1.3	3.5	10.3	19.0
39	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.5
40	0.1	0.1	0.3	0.6	1.3	3.3	9.8	18.0
41	0.1	0.1	0.3	0.6	1.3	3.2	9.5	17.5
42	0.1	0.1	0.3	0.6	1.3	3.1	9.2	17.0
43	0.1	0.2	0.3	0.6	1.2	3.1	8.9	16.5
44	0.1	0.2	0.3	0.6	1.3	3.0	8.7	16.1
45	0.1	0.2	0.3	0.6	1.3	3.0	8.4	15.7
46	0.1	0.2	0.3	0.6	1.3	2.9	8.2	15.3
47	0.1	0.2	0.3	0.6	1.3	2.9	8.0	14.9
48	0.1	0.2	0.3	0.6	1.3	2.9	7.8	14.4
49	0.1	0.2	0.3	0.7	1.3	2.9	7.6	14.0
50	0.1	0.2	0.3	0.7	1.3	2.9	7.5	13.6
51	0.1	0.2	0.3	0.7	1.4	2.9	7.3	13.3
52	0.1	0.2	0.3	0.7	1.4	2.8	7.2	13.0
53	0.1	0.2	0.3	0.7	1.4	2.8	7.1	12.7
54	0.1	0.2	0.3	0.7	1.4	2.9	7.0	12.4
55	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.2
56	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.9
57	0.1	0.2	0.4	0.7	1.4	3.0	6.8	11.7
58	0.1	0.2	0.4	0.7	1.5	3.0	6.8	11.6
59	0.1	0.2	0.4	0.7	1.5	3.0	6.7	11.4
60	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.2
61	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.1
62	0.1	0.2	0.4	0.7	1.5	3.1	6.7	11.1
63	0.1	0.2	0.4	0.8	1.5	3.1	6.7	11.1
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	11.0
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.9
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.9
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.9
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.6	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.5	3.9	7.3	11.4	13.9
2	0.1	0.2	0.5	1.5	3.9	7.6	12.1	14.9
3	0.1	0.2	0.5	1.4	3.8	7.8	12.8	15.9
4	0.1	0.2	0.5	1.4	3.7	7.9	13.6	17.0
5	0.1	0.2	0.5	1.3	3.6	8.1	14.3	18.1
6	0.1	0.1	0.4	1.3	3.4	8.2	15.0	19.2
7	0.1	0.1	0.4	1.2	3.3	8.3	15.6	20.3
8	0.1	0.1	0.4	1.2	3.2	8.4	16.1	21.4
9	0.1	0.1	0.4	1.1	3.2	8.4	16.6	22.5
10	0.1	0.1	0.4	1.1	3.1	8.3	17.0	23.5
11	0.1	0.1	0.4	1.0	3.0	8.0	17.4	24.4
12	0.1	0.1	0.3	1.0	2.9	7.8	17.7	25.2
13	0.1	0.1	0.3	1.0	2.8	7.5	18.0	25.9
14	0.1	0.1	0.3	0.9	2.7	7.3	18.2	26.5
15	0.1	0.1	0.3	0.9	2.6	7.1	18.4	27.1
16	0.1	0.1	0.3	0.9	2.5	7.0	18.4	27.6
17	0.1	0.1	0.3	0.8	2.4	6.8	18.3	28.0
18	0.1	0.1	0.3	0.8	2.3	6.6	17.9	28.4
19	0.1	0.1	0.3	0.8	2.2	6.4	17.3	28.7
20	0.1	0.1	0.3	0.7	2.1	6.2	16.9	28.8
21	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.7
22	0.1	0.1	0.3	0.7	2.0	5.8	16.0	28.2
23	0.1	0.1	0.3	0.7	1.9	5.6	15.7	27.5
24	0.1	0.1	0.3	0.6	1.9	5.4	15.4	26.7
25	0.1	0.1	0.3	0.6	1.8	5.3	15.0	26.0
26	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.4
27	0.1	0.1	0.3	0.6	1.6	4.9	14.2	24.9
28	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.4
29	0.1	0.1	0.3	0.6	1.5	4.6	13.4	23.9
30	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.3
31	0.1	0.1	0.3	0.6	1.5	4.3	12.6	22.7
32	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.1
33	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
34	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.0
35	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.4
36	0.1	0.1	0.3	0.6	1.3	3.6	10.9	19.8
37	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.3
38	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8
39	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3
40	0.1	0.1	0.3	0.6	1.3	3.2	9.7	17.8
41	0.1	0.1	0.3	0.6	1.3	3.2	9.4	17.3
42	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8
43	0.1	0.2	0.3	0.6	1.2	3.0	8.8	16.3
44	0.1	0.2	0.3	0.6	1.3	3.0	8.6	15.9
45	0.1	0.2	0.3	0.6	1.3	2.9	8.3	15.5
46	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.1
47	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.7
48	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.3
49	0.1	0.2	0.3	0.7	1.3	2.9	7.5	13.8
50	0.1	0.2	0.3	0.7	1.3	2.8	7.4	13.5

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.8	7.2	13.1
52	0.1	0.2	0.3	0.7	1.4	2.8	7.1	12.8
53	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.5
54	0.1	0.2	0.3	0.7	1.4	2.9	6.9	12.3
55	0.1	0.2	0.3	0.7	1.4	2.9	6.8	12.0
56	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.8
57	0.1	0.2	0.4	0.7	1.4	3.0	6.8	11.6
58	0.1	0.2	0.4	0.7	1.5	3.0	6.7	11.5
59	0.1	0.2	0.4	0.7	1.5	3.0	6.7	11.3
60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.2
61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.1
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	11.0
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.9
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.8
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.8
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.0
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.5	1.5	3.8	7.6	12.2	15.1
3	0.1	0.2	0.5	1.4	3.8	7.8	13.0	16.1
4	0.1	0.2	0.5	1.4	3.6	7.9	13.7	17.2
5	0.1	0.2	0.5	1.3	3.5	8.1	14.5	18.3
6	0.1	0.1	0.4	1.3	3.4	8.2	15.1	19.4
7	0.1	0.1	0.4	1.2	3.3	8.3	15.7	20.5
8	0.1	0.1	0.4	1.2	3.2	8.4	16.2	21.6
9	0.1	0.1	0.4	1.1	3.1	8.3	16.7	22.7
10	0.1	0.1	0.4	1.1	3.0	8.2	17.1	23.6
11	0.1	0.1	0.3	1.0	2.9	7.9	17.4	24.5
12	0.1	0.1	0.3	1.0	2.8	7.7	17.8	25.3
13	0.1	0.1	0.3	0.9	2.7	7.5	18.0	26.0
14	0.1	0.1	0.3	0.9	2.6	7.2	18.3	26.6
15	0.1	0.1	0.3	0.9	2.5	7.1	18.4	27.2
16	0.1	0.1	0.3	0.8	2.5	6.9	18.4	27.6
17	0.1	0.1	0.3	0.8	2.4	6.7	18.2	28.1
18	0.1	0.1	0.3	0.8	2.3	6.5	17.8	28.4
19	0.1	0.1	0.3	0.7	2.2	6.3	17.2	28.7
20	0.1	0.1	0.3	0.7	2.1	6.1	16.7	28.7
21	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.5
22	0.1	0.1	0.3	0.7	2.0	5.7	15.9	28.0
23	0.1	0.1	0.3	0.6	1.9	5.5	15.5	27.1
24	0.1	0.1	0.3	0.6	1.8	5.4	15.2	26.4
25	0.1	0.1	0.3	0.6	1.8	5.2	14.8	25.8
26	0.1	0.1	0.3	0.6	1.7	5.0	14.4	25.2
27	0.1	0.1	0.3	0.6	1.6	4.9	14.0	24.7
28	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.2
29	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.6
30	0.1	0.1	0.3	0.6	1.5	4.4	12.9	23.1
31	0.1	0.1	0.3	0.6	1.4	4.3	12.5	22.5
32	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.9
33	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.3
34	0.1	0.1	0.3	0.6	1.3	3.8	11.5	20.7
35	0.1	0.1	0.3	0.6	1.3	3.7	11.1	20.2
36	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.6
37	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.1
38	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6
39	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.1
40	0.1	0.1	0.3	0.6	1.3	3.2	9.6	17.6
41	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1
42	0.1	0.1	0.3	0.6	1.2	3.1	9.0	16.6
43	0.1	0.2	0.3	0.6	1.2	3.0	8.7	16.2
44	0.1	0.2	0.3	0.6	1.3	3.0	8.5	15.8
45	0.1	0.2	0.3	0.6	1.3	2.9	8.2	15.4
46	0.1	0.2	0.3	0.6	1.3	2.9	8.0	14.9
47	0.1	0.2	0.3	0.6	1.3	2.9	7.8	14.5
48	0.1	0.2	0.3	0.6	1.3	2.9	7.6	14.1
49	0.1	0.2	0.3	0.7	1.3	2.8	7.5	13.7
50	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.3
51	0.1	0.2	0.3	0.7	1.4	2.8	7.2	13.0
52	0.1	0.2	0.3	0.7	1.4	2.8	7.1	12.7
53	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.4
54	0.1	0.2	0.3	0.7	1.4	2.9	6.8	12.2
55	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.9
56	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.7
57	0.1	0.2	0.4	0.7	1.4	3.0	6.7	11.6
58	0.1	0.2	0.4	0.7	1.5	3.0	6.7	11.4
59	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.2
60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.1
61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.9
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.9
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.9
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.8
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.8
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.5	3.8	7.4	11.6	14.3
2	0.1	0.2	0.5	1.4	3.8	7.6	12.3	15.2
3	0.1	0.2	0.5	1.4	3.7	7.8	13.1	16.3
4	0.1	0.2	0.5	1.3	3.6	8.0	13.9	17.4
5	0.1	0.2	0.4	1.3	3.5	8.1	14.6	18.5
6	0.1	0.1	0.4	1.2	3.4	8.2	15.2	19.6
7	0.1	0.1	0.4	1.2	3.3	8.3	15.8	20.7
8	0.1	0.1	0.4	1.1	3.2	8.4	16.3	21.8
9	0.1	0.1	0.4	1.1	3.1	8.3	16.7	22.9
10	0.1	0.1	0.4	1.1	3.0	8.1	17.1	23.8
11	0.1	0.1	0.3	1.0	2.9	7.8	17.5	24.7
12	0.1	0.1	0.3	1.0	2.8	7.6	17.8	25.4
13	0.1	0.1	0.3	0.9	2.7	7.4	18.0	26.1
14	0.1	0.1	0.3	0.9	2.6	7.2	18.3	26.7
15	0.1	0.1	0.3	0.9	2.5	7.0	18.4	27.2
16	0.1	0.1	0.3	0.8	2.4	6.8	18.3	27.7
17	0.1	0.1	0.3	0.8	2.3	6.6	18.1	28.1
18	0.1	0.1	0.3	0.8	2.3	6.4	17.6	28.4
19	0.1	0.1	0.3	0.7	2.2	6.3	17.0	28.7
20	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.6
21	0.1	0.1	0.3	0.7	2.0	5.9	16.1	28.4
22	0.1	0.1	0.3	0.7	2.0	5.7	15.8	27.7
23	0.1	0.1	0.3	0.6	1.9	5.5	15.4	26.9
24	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2
25	0.1	0.1	0.3	0.6	1.7	5.1	14.7	25.6
26	0.1	0.1	0.3	0.6	1.7	5.0	14.3	25.0
27	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.5
28	0.1	0.1	0.3	0.6	1.6	4.6	13.5	24.0
29	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.4
30	0.1	0.1	0.3	0.6	1.5	4.4	12.7	22.9
31	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.3
32	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.7
33	0.1	0.1	0.3	0.6	1.4	3.9	11.7	21.1
34	0.1	0.1	0.3	0.6	1.3	3.8	11.3	20.5
35	0.1	0.1	0.3	0.6	1.3	3.7	11.0	20.0
36	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4
37	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.9
38	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.4
39	0.1	0.1	0.3	0.6	1.3	3.3	9.8	17.9
40	0.1	0.1	0.3	0.6	1.2	3.2	9.5	17.4
41	0.1	0.1	0.3	0.6	1.2	3.1	9.2	16.9
42	0.1	0.1	0.3	0.6	1.2	3.1	8.9	16.4
43	0.1	0.2	0.3	0.6	1.2	3.0	8.6	16.0
44	0.1	0.2	0.3	0.6	1.3	2.9	8.4	15.6
45	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.2
46	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.9
47	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.3
48	0.1	0.2	0.3	0.6	1.3	2.9	7.6	13.9
49	0.1	0.2	0.3	0.7	1.3	2.8	7.4	13.5
50	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.2

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.8	7.1	12.9
52	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.6
53	0.1	0.2	0.3	0.7	1.4	2.8	6.9	12.3
54	0.1	0.2	0.3	0.7	1.4	2.9	6.8	12.1
55	0.1	0.2	0.3	0.7	1.4	2.9	6.8	11.8
56	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.6
57	0.1	0.2	0.4	0.7	1.4	3.0	6.7	11.5
58	0.1	0.2	0.4	0.7	1.5	3.0	6.7	11.3
59	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.1
60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.9
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.8
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.8
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.8
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.8
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.8
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 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
2	0.1	0.2	0.5	1.4	3.8	7.6	12.5	15.4
3	0.1	0.2	0.5	1.4	3.7	7.8	13.2	16.5
4	0.1	0.2	0.5	1.3	3.6	8.0	14.0	17.6
5	0.1	0.2	0.4	1.3	3.5	8.1	14.7	18.7
6	0.1	0.1	0.4	1.2	3.3	8.2	15.3	19.8
7	0.1	0.1	0.4	1.2	3.2	8.3	15.9	20.9
8	0.1	0.1	0.4	1.1	3.2	8.3	16.4	22.0
9	0.1	0.1	0.4	1.1	3.1	8.3	16.8	23.0
10	0.1	0.1	0.4	1.0	3.0	8.1	17.2	23.9
11	0.1	0.1	0.3	1.0	2.9	7.8	17.5	24.8
12	0.1	0.1	0.3	1.0	2.8	7.5	17.8	25.5
13	0.1	0.1	0.3	0.9	2.7	7.3	18.0	26.2
14	0.1	0.1	0.3	0.9	2.6	7.1	18.2	26.7
15	0.1	0.1	0.3	0.9	2.5	7.0	18.3	27.3
16	0.1	0.1	0.3	0.8	2.4	6.8	18.2	27.7
17	0.1	0.1	0.3	0.8	2.3	6.6	17.9	28.1
18	0.1	0.1	0.3	0.8	2.2	6.4	17.4	28.4
19	0.1	0.1	0.3	0.7	2.1	6.2	16.9	28.6
20	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.5
21	0.1	0.1	0.3	0.7	2.0	5.8	16.0	28.2
22	0.1	0.1	0.3	0.7	1.9	5.6	15.6	27.5
23	0.1	0.1	0.3	0.6	1.9	5.4	15.3	26.6
24	0.1	0.1	0.3	0.6	1.8	5.2	14.9	26.0
25	0.1	0.1	0.3	0.6	1.7	5.1	14.6	25.3
26	0.1	0.1	0.3	0.6	1.6	4.9	14.2	24.8
27	0.1	0.1	0.3	0.6	1.6	4.7	13.8	24.3
28	0.1	0.1	0.3	0.6	1.5	4.6	13.4	23.8
29	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.2
30	0.1	0.1	0.3	0.6	1.4	4.3	12.6	22.6
31	0.1	0.1	0.3	0.6	1.4	4.2	12.2	22.1
32	0.1	0.1	0.3	0.6	1.4	4.0	11.9	21.5
33	0.1	0.1	0.3	0.6	1.3	3.9	11.5	20.9
34	0.1	0.1	0.3	0.6	1.3	3.7	11.2	20.3
35	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.8
36	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2
37	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.7
38	0.1	0.1	0.3	0.6	1.3	3.3	9.9	18.2
39	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.7
40	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.2
41	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.7
42	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.2
43	0.1	0.2	0.3	0.6	1.2	3.0	8.5	15.8
44	0.1	0.2	0.3	0.6	1.3	2.9	8.3	15.5
45	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.0
46	0.1	0.2	0.3	0.6	1.3	2.9	7.8	14.6
47	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.2
48	0.1	0.2	0.3	0.6	1.3	2.8	7.5	13.7
49	0.1	0.2	0.3	0.7	1.3	2.8	7.3	13.4
50	0.1	0.2	0.3	0.7	1.3	2.8	7.2	13.1

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.8	7.1	12.7
52	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.5
53	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.2
54	0.1	0.2	0.3	0.7	1.4	2.9	6.9	11.9
55	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.7
56	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.5
57	0.1	0.2	0.4	0.7	1.4	3.0	6.7	11.4
58	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.2
59	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.1
60	0.1	0.2	0.4	0.7	1.5	3.1	6.6	11.0
61	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.9
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.9
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.8
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.8
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	10.9
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

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

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 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
2	0.1	0.2	0.5	1.4	3.8	7.7	12.7	15.8
3	0.1	0.2	0.5	1.3	3.6	7.8	13.5	16.9
4	0.1	0.2	0.5	1.3	3.5	8.0	14.2	18.0
5	0.1	0.1	0.4	1.2	3.4	8.1	14.9	19.0
6	0.1	0.1	0.4	1.2	3.3	8.2	15.5	20.2
7	0.1	0.1	0.4	1.2	3.2	8.3	16.0	21.3
8	0.1	0.1	0.4	1.1	3.1	8.3	16.5	22.4
9	0.1	0.1	0.4	1.1	3.0	8.1	16.9	23.3
10	0.1	0.1	0.3	1.0	2.9	7.9	17.2	24.2
11	0.1	0.1	0.3	1.0	2.8	7.6	17.6	25.0
12	0.1	0.1	0.3	0.9	2.7	7.4	17.8	25.7
13	0.1	0.1	0.3	0.9	2.6	7.2	18.1	26.3
14	0.1	0.1	0.3	0.9	2.5	7.0	18.2	26.9
15	0.1	0.1	0.3	0.8	2.4	6.8	18.2	27.4
16	0.1	0.1	0.3	0.8	2.3	6.7	18.0	27.8
17	0.1	0.1	0.3	0.8	2.3	6.5	17.6	28.1
18	0.1	0.1	0.3	0.7	2.2	6.3	17.0	28.4
19	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.4
20	0.1	0.1	0.3	0.7	2.0	5.9	16.1	28.2
21	0.1	0.1	0.3	0.7	2.0	5.7	15.7	27.7
22	0.1	0.1	0.3	0.6	1.9	5.5	15.4	26.9
23	0.1	0.1	0.3	0.6	1.8	5.3	15.1	26.2
24	0.1	0.1	0.2	0.6	1.7	5.1	14.7	25.5
25	0.1	0.1	0.2	0.6	1.7	5.0	14.3	24.9
26	0.1	0.1	0.3	0.6	1.6	4.8	13.9	24.4
27	0.1	0.1	0.3	0.6	1.6	4.6	13.5	23.9
28	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.4
29	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8
30	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2
31	0.1	0.1	0.3	0.6	1.4	4.1	12.0	21.6
32	0.1	0.1	0.3	0.6	1.4	3.9	11.6	21.1
33	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.5
34	0.1	0.1	0.3	0.6	1.3	3.6	11.0	19.9
35	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.4
36	0.1	0.1	0.3	0.6	1.3	3.4	10.3	18.8
37	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3
38	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.9
39	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.3
40	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8
41	0.1	0.1	0.3	0.6	1.2	3.0	8.9	16.3
42	0.1	0.1	0.3	0.6	1.2	3.0	8.6	15.9
43	0.1	0.2	0.3	0.6	1.2	2.9	8.3	15.5
44	0.1	0.2	0.3	0.6	1.3	2.9	8.1	15.1
45	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.7
46	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.3
47	0.1	0.2	0.3	0.6	1.3	2.8	7.5	13.8
48	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.4
49	0.1	0.2	0.3	0.7	1.3	2.8	7.2	13.1
50	0.1	0.2	0.3	0.7	1.3	2.8	7.1	12.8

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ 63	125	250	500	1000	2000	4000	8000
51	0.1	0.2	0.3	0.7	1.4	2.8	7.0	12.5
52	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.2
53	0.1	0.2	0.3	0.7	1.4	2.8	6.7	12.0
54	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.7
55	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.5
56	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.4
57	0.1	0.2	0.4	0.7	1.4	3.0	6.6	11.2
58	0.1	0.2	0.4	0.7	1.5	3.0	6.6	11.0
59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.9
60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.9
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.9
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.8
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.7
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.7
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.7
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.7
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.5	1.4	3.7	7.7	12.9	16.0
3	0.1	0.2	0.5	1.3	3.6	7.9	13.6	17.1
4	0.1	0.2	0.4	1.3	3.5	8.0	14.3	18.1
5	0.1	0.1	0.4	1.2	3.4	8.1	15.0	19.2
6	0.1	0.1	0.4	1.2	3.3	8.2	15.6	20.3
7	0.1	0.1	0.4	1.1	3.2	8.3	16.1	21.5
8	0.1	0.1	0.4	1.1	3.1	8.2	16.5	22.5
9	0.1	0.1	0.4	1.1	3.0	8.1	16.9	23.5
10	0.1	0.1	0.3	1.0	2.9	7.8	17.3	24.3
11	0.1	0.1	0.3	1.0	2.8	7.6	17.6	25.1
12	0.1	0.1	0.3	0.9	2.7	7.3	17.8	25.8
13	0.1	0.1	0.3	0.9	2.6	7.1	18.1	26.4
14	0.1	0.1	0.3	0.9	2.5	7.0	18.2	26.9
15	0.1	0.1	0.3	0.8	2.4	6.8	18.1	27.4
16	0.1	0.1	0.3	0.8	2.3	6.6	17.9	27.8
17	0.1	0.1	0.3	0.8	2.2	6.4	17.4	28.1
18	0.1	0.1	0.3	0.7	2.2	6.2	16.9	28.4
19	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.3
20	0.1	0.1	0.3	0.7	2.0	5.8	16.0	29.1
21	0.1	0.1	0.3	0.7	1.9	5.6	15.6	27.5
22	0.1	0.1	0.3	0.6	1.9	5.4	15.3	26.6
23	0.1	0.1	0.2	0.6	1.8	5.3	14.9	25.9
24	0.1	0.1	0.2	0.6	1.7	5.1	14.5	25.3
25	0.1	0.1	0.2	0.6	1.7	4.9	14.1	24.7
26	0.1	0.1	0.3	0.6	1.6	4.7	13.7	24.2
27	0.1	0.1	0.3	0.6	1.5	4.6	13.3	23.7
28	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.2
29	0.1	0.1	0.3	0.6	1.4	4.3	12.6	22.6
30	0.1	0.1	0.3	0.6	1.4	4.2	12.2	22.0
31	0.1	0.1	0.3	0.6	1.4	4.0	11.8	21.4
32	0.1	0.1	0.3	0.5	1.3	3.9	11.5	20.8
33	0.1	0.1	0.3	0.5	1.3	3.7	11.2	20.3
34	0.1	0.1	0.3	0.6	1.3	3.6	10.8	19.7
35	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.2
36	0.1	0.1	0.3	0.6	1.3	3.4	10.2	19.7
37	0.1	0.1	0.3	0.6	1.3	3.3	9.9	19.2
38	0.1	0.1	0.3	0.6	1.2	3.2	9.6	17.7
39	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1
40	0.1	0.1	0.3	0.6	1.2	3.1	9.0	16.6
41	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.2
42	0.1	0.1	0.3	0.6	1.2	3.0	8.5	15.8
43	0.1	0.2	0.3	0.6	1.2	2.9	8.2	15.4
44	0.1	0.2	0.3	0.6	1.3	2.9	8.0	15.0
45	0.1	0.2	0.3	0.6	1.3	2.9	7.8	14.5
46	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.1
47	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.7
48	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.3
49	0.1	0.2	0.3	0.7	1.3	2.8	7.1	13.0
50	0.1	0.2	0.3	0.7	1.3	2.8	7.0	12.7
51	0.1	0.2	0.3	0.7	1.4	2.8	6.9	12.4
52	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.1
53	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.9
54	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.6
55	0.1	0.2	0.3	0.7	1.4	2.9	6.7	11.5
56	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.3
57	0.1	0.2	0.4	0.7	1.4	3.0	6.6	11.1
58	0.1	0.2	0.4	0.7	1.3	3.0	6.5	11.0
59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.9
60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.7
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.7
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.6
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.9	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.5	1.4	3.7	7.7	13.0	16.1
3	0.1	0.2	0.5	1.3	3.6	7.9	13.8	17.3
4	0.1	0.1	0.4	1.3	3.4	8.0	14.4	18.3
5	0.1	0.1	0.4	1.2	3.3	8.1	15.1	19.4
6	0.1	0.1	0.4	1.2	3.2	8.2	15.6	20.5
7	0.1	0.1	0.4	1.1	3.1	8.3	16.1	21.7
8	0.1	0.1	0.4	1.1	3.1	8.2	16.6	22.7
9	0.1	0.1	0.4	1.0	3.0	8.0	17.0	23.6
10	0.1	0.1	0.3	1.0	2.9	7.7	17.3	24.5
11	0.1	0.1	0.3	1.0	2.8	7.5	17.6	25.2
12	0.1	0.1	0.3	0.9	2.7	7.3	17.9	25.9
13	0.1	0.1	0.3	0.9	2.6	7.1	18.1	26.4
14	0.1	0.1	0.3	0.9	2.5	6.9	18.1	27.0
15	0.1	0.1	0.3	0.8	2.4	6.7	18.1	27.4
16	0.1	0.1	0.3	0.8	2.3	6.5	17.8	27.8
17	0.1	0.1	0.3	0.7	2.2	6.3	17.3	28.1
18	0.1	0.1	0.3	0.7	2.1	6.1	16.7	28.3
19	0.1	0.1	0.3	0.7	2.0	5.9	16.3	28.2
20	0.1	0.1	0.3	0.7	2.0	5.7	15.9	27.9
21	0.1	0.1	0.3	0.6	1.9	5.6	15.5	27.2
22	0.1	0.1	0.3	0.6	1.8	5.4	15.2	26.4
23	0.1	0.1	0.2	0.6	1.8	5.2	14.8	25.7
24	0.1	0.1	0.2	0.6	1.7	5.0	14.4	25.1
25	0.1	0.1	0.2	0.6	1.6	4.9	14.0	24.5
26	0.1	0.1	0.3	0.6	1.6	4.7	13.6	24.0
27	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.5
28	0.1	0.1	0.3	0.6	1.5	4.4	12.8	23.0
29	0.1	0.1	0.3	0.6	1.4	4.3	12.4	22.4
30	0.1	0.1	0.3	0.6	1.4	4.1	12.1	21.8
31	0.1	0.1	0.3	0.5	1.4	4.0	11.7	21.2
32	0.1	0.1	0.3	0.5	1.3	3.8	11.4	20.6
33	0.1	0.1	0.3	0.5	1.3	3.7	11.1	20.1
34	0.1	0.1	0.3	0.6	1.3	3.6	10.7	19.5
35	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.0
36	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.5
37	0.1	0.1	0.3	0.6	1.2	3.3	9.8	18.0
38	0.1	0.1	0.3	0.6	1.2	3.2	9.5	17.5
39	0.1	0.1	0.3	0.6	1.2	3.1	9.2	17.0
40	0.1	0.1	0.3	0.6	1.2	3.0	8.9	16.5
41	0.1	0.1	0.3	0.6	1.2	3.0	8.7	16.0
42	0.1	0.1	0.3	0.6	1.2	2.9	8.4	15.6
43	0.1	0.2	0.3	0.6	1.2	2.9	8.1	15.2
44	0.1	0.2	0.3	0.6	1.3	2.9	7.9	14.8
45	0.1	0.2	0.3	0.6	1.3	2.9	7.7	14.4
46	0.1	0.2	0.3	0.6	1.3	2.8	7.5	13.9
47	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.5
48	0.1	0.2	0.3	0.6	1.3	2.8	7.2	13.2
49	0.1	0.2	0.3	0.7	1.3	2.8	7.1	12.8
50	0.1	0.2	0.3	0.7	1.3	2.8	7.0	12.5
51	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.3
52	0.1	0.2	0.3	0.7	1.4	2.8	6.7	12.0
53	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.8
54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.6
55	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.4
56	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.2
57	0.1	0.2	0.4	0.7	1.4	3.0	6.5	11.0
58	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.9
59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.7
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.6
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.6
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, F	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.4	3.8	7.6	12.4	15.3
2	0.1	0.2	0.5	1.4	3.7	7.7	13.1	16.3
3	0.1	0.2	0.5	1.3	3.5	7.9	13.9	17.5
4	0.1	0.1	0.4	1.3	3.6	8.0	14.5	18.5
5	0.1	0.1	0.4	1.2	3.3	8.1	15.2	19.6
6	0.1	0.1	0.4	1.2	3.2	8.2	15.7	20.7
7	0.1	0.1	0.4	1.1	3.1	8.2	16.2	21.9
8	0.1	0.1	0.4	1.1	3.0	8.1	16.6	22.8
9	0.1	0.1	0.3	1.0	2.9	7.9	17.0	23.8
10	0.1	0.1	0.3	1.0	2.8	7.7	17.3	24.6
11	0.1	0.1	0.3	0.9	2.7	7.4	17.6	25.3
12	0.1	0.1	0.3	0.9	2.6	7.2	17.9	25.9
13	0.1	0.1	0.3	0.9	2.5	7.0	18.1	26.5
14	0.1	0.1	0.3	0.8	2.4	6.8	18.1	27.0
15	0.1	0.1	0.3	0.8	2.4	6.7	18.0	27.4
16	0.1	0.1	0.3	0.8	2.3	6.5	17.6	27.8
17	0.1	0.1	0.3	0.7	2.2	6.3	17.1	28.1
18	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.3
19	0.1	0.1	0.3	0.7	2.0	5.9	16.1	28.1
20	0.1	0.1	0.3	0.7	2.0	5.7	15.7	27.7
21	0.1	0.1	0.3	0.6	1.9	5.5	15.4	27.0
22	0.1	0.1	0.2	0.6	1.8	5.3	15.1	26.2
23	0.1	0.1	0.2	0.6	1.7	5.1	14.7	25.5
24	0.1	0.1	0.2	0.6	1.7	5.0	14.3	24.9
25	0.1	0.1	0.2	0.6	1.6	4.8	13.9	24.3
26	0.1	0.1	0.3	0.6	1.6	4.6	13.5	23.8
27	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.3
28	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8
29	0.1	0.1	0.3	0.6	1.4	4.2	12.3	22.2
30	0.1	0.1	0.3	0.5	1.4	4.1	12.0	21.6
31	0.1	0.1	0.3	0.5	1.3	3.9	11.6	21.0
32	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.4
33	0.1	0.1	0.3	0.5	1.3	3.6	10.9	19.9
34	0.1	0.1	0.3	0.6	1.3	3.5	10.6	19.3
35	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8
36	0.1	0.1	0.3	0.6	1.3	3.3	10.0	18.3
37	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.8
38	0.1	0.1	0.3	0.6	1.2	3.2	9.4	17.3
39	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.8
40	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.3
41	0.1	0.1	0.3	0.6	1.2	3.0	8.6	15.9
42	0.1	0.1	0.3	0.6	1.2	2.9	8.3	15.5
43	0.1	0.2	0.3	0.6	1.2	2.9	8.1	15.1
44	0.1	0.2	0.3	0.6	1.3	2.8	7.9	14.6
45	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.2
46	0.1	0.2	0.3	0.6	1.3	2.8	7.5	13.8
47	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.4
48	0.1	0.2	0.3	0.6	1.3	2.8	7.2	13.0
49	0.1	0.2	0.3	0.7	1.3	2.8	7.0	12.7
50	0.1	0.2	0.3	0.7	1.3	2.8	6.9	12.4
51	0.1	0.2	0.3	0.7	1.4	2.8	6.8	12.1
52	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.9
53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.7
54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.5
55	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.3
56	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.1
57	0.1	0.2	0.4	0.7	1.4	3.0	6.5	10.9
58	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.8
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.7
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.6
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.6
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.6
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.5	1.3	3.6	7.7	13.2	16.5
3	0.1	0.2	0.5	1.3	3.5	7.9	14.0	17.6
4	0.1	0.1	0.4	1.2	3.4	8.0	14.6	18.7
5	0.1	0.1	0.4	1.2	3.3	8.1	15.2	19.8
6	0.1	0.1	0.4	1.1	3.2	8.2	15.8	20.9
7	0.1	0.1	0.4	1.1	3.1	8.2	16.3	22.0
8	0.1	0.1	0.4	1.1	3.0	8.1	16.7	23.0
9	0.1	0.1	0.3	1.0	2.9	7.9	17.0	23.9
10	0.1	0.1	0.3	1.0	2.8	7.6	17.4	24.7
11	0.1	0.1	0.3	0.9	2.7	7.4	17.6	25.4
12	0.1	0.1	0.3	0.9	2.6	7.2	17.9	26.0
13	0.1	0.1	0.3	0.9	2.5	7.0	18.0	26.6
14	0.1	0.1	0.3	0.8	2.4	6.8	18.0	27.1
15	0.1	0.1	0.3	0.8	2.3	6.6	17.9	27.5
16	0.1	0.1	0.3	0.8	2.3	6.4	17.5	27.8
17	0.1	0.1	0.3	0.7	2.2	6.2	16.9	28.1
18	0.1	0.1	0.3	0.7	2.1	6.0	16.4	28.2
19	0.1	0.1	0.3	0.7	2.0	5.8	16.0	28.0
20	0.1	0.1	0.3	0.7	1.9	5.6	15.6	27.5
21	0.1	0.1	0.2	0.6	1.9	5.4	15.3	26.7
22	0.1	0.1	0.2	0.6	1.8	5.3	14.9	25.9
23	0.1	0.1	0.2	0.6	1.7	5.1	14.5	25.3
24	0.1	0.1	0.2	0.6	1.7	4.9	14.1	24.7
25	0.1	0.1	0.2	0.6	1.6	4.8	13.8	24.2
26	0.1	0.1	0.3	0.6	1.5	4.6	13.4	23.7
27	0.1	0.1	0.3	0.6	1.5	4.4	13.0	23.1
28	0.1	0.1	0.3	0.6	1.4	4.3	12.6	22.6
29	0.1	0.1	0.3	0.5	1.4	4.2	12.2	22.0
30	0.1	0.1	0.3	0.5	1.4	4.0	11.8	21.4
31	0.1	0.1	0.3	0.5	1.3	3.9	11.5	20.8
32	0.1	0.1	0.3	0.5	1.3	3.7	11.2	20.2
33	0.1	0.1	0.3	0.5	1.3	3.6	10.8	19.7
34	0.1	0.1	0.3	0.6	1.3	3.5	10.5	19.1
35	0.1	0.1	0.3	0.6	1.3	3.4	10.1	18.6
36	0.1	0.1	0.3	0.6	1.2	3.3	9.9	18.1
37	0.1	0.1	0.3	0.6	1.2	3.2	9.6	17.6
38	0.1	0.1	0.3	0.6	1.2	3.1	9.3	17.1
39	0.1	0.1	0.3	0.6	1.2	3.1	9.0	16.6
40	0.1	0.1	0.3	0.6	1.2	3.0	8.7	16.1
41	0.1	0.1	0.3	0.6	1.2	2.9	8.5	15.7
42	0.1	0.1	0.3	0.6	1.2	2.9	8.2	15.3
43	0.1	0.2	0.3	0.6	1.2	2.9	8.0	14.9
44	0.1	0.2	0.3	0.6	1.3	2.8	7.8	14.5
45	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.0
46	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.6
47	0.1	0.2	0.3	0.6	1.3	2.8	7.2	13.2
48	0.1	0.2	0.3	0.6	1.3	2.8	7.1	12.9
49	0.1	0.2	0.3	0.7	1.3	2.8	7.0	12.6
50	0.1	0.2	0.3	0.7	1.3	2.8	6.9	12.3
51	0.1	0.2	0.3	0.7	1.4	2.8	6.7	12.0
52	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.8
53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.6
54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.4
55	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.2
56	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.0
57	0.1	0.2	0.4	0.7	1.4	3.0	6.5	10.9
58	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
59	0.1	0.2	0.4	0.7	1.5	3.0	6.5	10.8
60	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.7
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.6
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.6
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.5
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.5
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ							
	63	125	250	500	1000	2000	4000	8000
1	0.1	0.2	0.5	1.4	3.7	7.6	12.6	15.6
2	0.1	0.2	0.5	1.3	3.6	7.8	13.4	16.7
3	0.1	0.2	0.4	1.3	3.5	7.9	14.1	17.8
4	0.1	0.1	0.4	1.2	3.4	8.0	14.7	18.9
5	0.1	0.1	0.4	1.2	3.2	8.1	15.3	20.0
6	0.1	0.1	0.4	1.1	3.2	8.2	15.9	21.1
7	0.1	0.1	0.4	1.1	3.1	8.2	16.3	22.2
8	0.1	0.1	0.4	1.1	3.0	8.0	16.7	23.1
9	0.1	0.1	0.3	1.0	2.9	7.9	17.1	24.0
10	0.1	0.1	0.3	1.0	2.8	7.5	17.4	24.8
11	0.1	0.1	0.3	0.9	2.7	7.3	17.6	25.5
12	0.1	0.1	0.3	0.9	2.6	7.1	17.9	26.1
13	0.1	0.1	0.3	0.9	2.5	6.9	18.0	26.6
14	0.1	0.1	0.3	0.8	2.4	6.7	18.0	27.1
15	0.1	0.1	0.3	0.8	2.3	6.6	17.8	27.5
16	0.1	0.1	0.3	0.8	2.2	6.4	17.3	27.8
17	0.1	0.1	0.3	0.7	2.1	6.2	16.8	28.1
18	0.1	0.1	0.3	0.7	2.1	6.0	16.3	28.1
19	0.1	0.1	0.3	0.7	2.0	5.8	15.9	27.9
20	0.1	0.1	0.3	0.6	1.9	5.6	15.5	27.3
21	0.1	0.1	0.2	0.6	1.8	5.4	15.1	26.4
22	0.1	0.1	0.2	0.6	1.8	5.2	14.8	25.7
23	0.1	0.1	0.2	0.6	1.7	5.0	14.4	25.1
24	0.1	0.1	0.2	0.6	1.6	4.9	14.0	24.5
25	0.1	0.1	0.2	0.6	1.6	4.7	13.6	24.0
26	0.1	0.1	0.3	0.6	1.5	4.5	13.2	23.5
27	0.1	0.1	0.3	0.6	1.5	4.4	12.8	22.9
28	0.1	0.1	0.3	0.6	1.4	4.3	12.4	22.4
29	0.1	0.1	0.3	0.5	1.4	4.1	12.1	21.8
30	0.1	0.1	0.3	0.5	1.4	4.0	11.7	21.2
31	0.1	0.1	0.3	0.5	1.3	3.8	11.4	20.6
32	0.1	0.1	0.3	0.5	1.3	3.7	11.1	20.1
33	0.1	0.1	0.3	0.5	1.3	3.6	10.7	19.5
34	0.1	0.1	0.3	0.6	1.3	3.5	10.4	19.0
35	0.1	0.1	0.3	0.6	1.3	3.4	10.0	18.4
36	0.1	0.1	0.3	0.6	1.2	3.3	9.8	18.0
37	0.1	0.1	0.3	0.6	1.2	3.2	9.5	17.5
38	0.1	0.1	0.3	0.6	1.2	3.1	9.2	16.9
39	0.1	0.1	0.3	0.6	1.2	3.0	8.9	16.4
40	0.1	0.1	0.3	0.6	1.2	3.0	8.6	16.0
41	0.1	0.1	0.3	0.6	1.2	2.9	8.4	15.6
42	0.1	0.1	0.3	0.6	1.2	2.9	8.1	15.2
43	0.1	0.2	0.3	0.6	1.2	2.9	7.9	14.7
44	0.1	0.2	0.3	0.6	1.3	2.8	7.7	14.3
45	0.1	0.2	0.3	0.6	1.3	2.8	7.5	13.9
46	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.5
47	0.1	0.2	0.3	0.6	1.3	2.8	7.2	13.1
48	0.1	0.2	0.3	0.6	1.3	2.8	7.0	12.8
49	0.1	0.2	0.3	0.7	1.3	2.8	6.9	12.5
50	0.1	0.2	0.3	0.7	1.3	2.8	6.8	12.2
51	0.1	0.2	0.3	0.7	1.4	2.8	6.7	11.9
52	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.7
53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.5
54	0.1	0.2	0.3	0.7	1.4	2.9	6.6	11.3
55	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.1
56	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.0
57	0.1	0.2	0.4	0.7	1.4	3.0	6.4	10.8
58	0.1	0.2	0.4	0.7	1.5	3.0	6.4	10.7
59	0.1	0.2	0.4	0.7	1.5	3.0	6.4	10.7
60	0.1	0.2	0.4	0.7	1.5	3.1	6.4	10.7
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.6
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.5
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.5
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.5
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
100	0.1	0.3	0.6	1.1	2.3	4.6	9.6	14.6

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

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ							
	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
2	0.1	0.2	0.5	1.3	3.6	7.8	13.5	16.9
3	0.1	0.1	0.4	1.3	3.4	7.9	14.2	18.0
4	0.1	0.1	0.4	1.2	3.3	8.1	14.8	19.0
5	0.1	0.1	0.4	1.2	3.2	8.1	15.4	20.2
6	0.1	0.1	0.4	1.1	3.1	8.2	15.9	21.3
7	0.1	0.1	0.4	1.1	3.0	8.1	16.4	22.3
8	0.1	0.1	0.4	1.0	2.9	8.0	16.7	23.3
9	0.1	0.1	0.3	1.0	2.8	7.7	17.1	24.1
10	0.1	0.1	0.3	1.0	2.7	7.5	17.4	24.9
11	0.1	0.1	0.3	0.9	2.7	7.2	17.7	25.6
12	0.1	0.1	0.3	0.9	2.6	7.0	17.9	26.1
13	0.1	0.1	0.3	0.8	2.5	6.9	18.0	26.7
14	0.1	0.1	0.3	0.8	2.4	6.7	17.9	27.1
15	0.1	0.1	0.3	0.9	2.3	6.5	17.7	27.5
16	0.1	0.1	0.3	0.7	2.2	6.3	17.2	27.9
17	0.1	0.1	0.3	0.7	2.1	6.1	16.6	28.1
18	0.1	0.1	0.3	0.7	2.0	5.9	16.2	29.0
19	0.1	0.1	0.3	0.7	2.0	5.7	15.8	27.7
20	0.1	0.1	0.3	0.6	1.9	5.5	15.4	27.0
21	0.1	0.1	0.2	0.6	1.8	5.3	15.0	26.2
22	0.1	0.1	0.2	0.6	1.8	5.2	14.7	25.5
23	0.1	0.1	0.2	0.6	1.7	5.0	14.3	24.9
24	0.1	0.1	0.2	0.6	1.6	4.8	13.9	24.3
25	0.1	0.1	0.3	0.6	1.6	4.6	13.5	23.8
26	0.1	0.1	0.3	0.6	1.5	4.5	13.1	23.3
27	0.1	0.1	0.3	0.6	1.5	4.3	12.7	22.8
28	0.1	0.1	0.3	0.5	1.4	4.2	12.3	22.2
29	0.1	0.1	0.3	0.5	1.4	4.1	12.0	21.6
30	0.1	0.1	0.3	0.5	1.3	3.9	11.6	21.0
31	0.1	0.1	0.3	0.5	1.3	3.8	11.3	20.4
32	0.1	0.1	0.3	0.5	1.3	3.6	10.9	19.9
33	0.1	0.1	0.3	0.5	1.3	3.5	10.6	19.3
34	0.1	0.1	0.3	0.6	1.3	3.4	10.2	18.8
35	0.1	0.1	0.3	0.6	1.2	3.3	9.9	18.3
36	0.1	0.1	0.3	0.6	1.2	3.2	9.7	17.8
37	0.1	0.1	0.3	0.6	1.2	3.1	9.4	17.3
38	0.1	0.1	0.3	0.6	1.2	3.1	9.1	16.7
39	0.1	0.1	0.3	0.6	1.2	3.0	8.8	16.2
40	0.1	0.1	0.3	0.6	1.2	2.9	8.5	15.8
41	0.1	0.1	0.3	0.6	1.2	2.9	8.3	15.4
42	0.1	0.1	0.3	0.6	1.2	2.8	8.0	15.0
43	0.1	0.2	0.3	0.6	1.2	2.8	7.8	14.6
44	0.1	0.2	0.3	0.6	1.3	2.8	7.6	14.2
45	0.1	0.2	0.3	0.6	1.3	2.8	7.4	13.7
46	0.1	0.2	0.3	0.6	1.3	2.8	7.3	13.3
47	0.1	0.2	0.3	0.6	1.3	2.8	7.1	13.0
48	0.1	0.2	0.3	0.6	1.3	2.7	7.0	12.7
49	0.1	0.2	0.3	0.7	1.3	2.7	6.9	12.4
50	0.1	0.2	0.3	0.7	1.3	2.7	6.8	12.1
51	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.8
52	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.6
53	0.1	0.2	0.3	0.7	1.4	2.8	6.6	11.4
54	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.2
55	0.1	0.2	0.3	0.7	1.4	2.9	6.5	11.0
56	0.1	0.2	0.3	0.7	1.4	2.9	6.4	10.9
57	0.1	0.2	0.4	0.7	1.4	3.0	6.4	10.8
58	0.1	0.2	0.4	0.7	1.5	3.0	6.4	10.7
59	0.1	0.2	0.4	0.7	1.5	3.0	6.4	10.7
60	0.1	0.2	0.4	0.7	1.5	3.1	6.4	10.6
61	0.1	0.2	0.4	0.7	1.5	3.1	6.5	10.5
62	0.1	0.2	0.4	0.7	1.5	3.1	6.6	10.5
63	0.1	0.2	0.4	0.8	1.5	3.1	6.6	10.5
64	0.1	0.2	0.4	0.8	1.5	3.2	6.7	10.5
65	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
66	0.1	0.2	0.4	0.8	1.6	3.2	6.8	10.5
67	0.1	0.2	0.4	0.8	1.6	3.3	6.9	10.6
68	0.1	0.2	0.4	0.8	1.6	3.3	7.0	10.7
69	0.1	0.2	0.4	0.8	1.6	3.4	7.0	10.8
70	0.1	0.2	0.4	0.8	1.7	3.4	7.1	11.0
71	0.1	0.2	0.4	0.8	1.7	3.4	7.2	11.1
72	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.2
73	0.1	0.2	0.4	0.8	1.7	3.5	7.3	11.3
74	0.1	0.2	0.4	0.9	1.7	3.5	7.4	11.4
75	0.1	0.2	0.4	0.9	1.7	3.6	7.5	11.5
76	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.6
77	0.1	0.2	0.4	0.9	1.8	3.6	7.6	11.7
78	0.1	0.2	0.4	0.9	1.8	3.7	7.7	11.8
79	0.1	0.2	0.4	0.9	1.8	3.7	7.8	11.9
80	0.1	0.2	0.5	0.9	1.8	3.8	7.9	12.1
81	0.1	0.2	0.5	0.9	1.9	3.8	7.9	12.2
82	0.1	0.2	0.5	0.9	1.9	3.8	8.0	12.3
83	0.1	0.2	0.5	0.9	1.9	3.9	8.1	12.4
84	0.1	0.2	0.5	0.9	1.9	3.9	8.2	12.5
85	0.1	0.2	0.5	1.0	1.9	4.0	8.3	12.6
86	0.1	0.2	0.5	1.0	2.0	4.0	8.3	12.8
87	0.1	0.2	0.5	1.0	2.0	4.0	8.4	12.9
88	0.1	0.2	0.5	1.0	2.0	4.1	8.5	13.0
89	0.1	0.2	0.5	1.0	2.0	4.1	8.6	13.1
90	0.1	0.3	0.5	1.0	2.0	4.2	8.7	13.3
91	0.1	0.3	0.5	1.0	2.1	4.2	8.8	13.4
92	0.1	0.3	0.5	1.0	2.1	4.3	8.9	13.5
93	0.1	0.3	0.5	1.0	2.1	4.3	9.0	13.7
94	0.1	0.3	0.5	1.1	2.1	4.3	9.0	13.8
95	0.1	0.3	0.5	1.1	2.2	4.4	9.1	13.9
96	0.1	0.3	0.5	1.1	2.2	4.4	9.2	14.1
97	0.1	0.3	0.5	1.1	2.2	4.5	9.3	14.2
98	0.1	0.3	0.5	1.1	2.2	4.5	9.4	14.4
99	0.1	0.3	0.6	1.1	2.2	4.6	9.5	14.5
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

TEMPERATURE, DEGREES FAHRENHEIT	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	0.0	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	0.2	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	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.4
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	2.1	3.4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.1	3.4
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.2	3.4
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.8	0.9	1.4	2.2	3.4
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	0.9	1.4	2.2	3.4
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	0.9	1.4	2.2	3.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.2	3.5
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.2	3.5
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.2	3.5
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.3	3.5
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.3	3.6
15	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.3	3.6
16	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.0	1.5	2.3	3.6
17	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.1	1.5	2.3	3.6
18	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.1	1.6	2.4	3.7
19	0.0	0.0	0.0	0.0	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
20	0.0	0.0	0.0	0.0	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
21	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	0.7	0.9	1.1	1.6	2.4	3.8
22	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	0.7	1.0	1.1	1.6	2.5	3.8
23	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	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.8
24	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	0.3	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.9
25	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	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.2	1.7	2.6	3.9
26	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	0.2	0.3	0.4	0.4	0.6	0.8	1.0	1.2	1.7	2.6	3.9
27	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	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.6	4.0
28	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
29	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	4.1
30	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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.9	2.7	4.1
31	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	0.4	0.5	0.7	0.9	1.2	1.4	1.9	2.8	4.1
32	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	4.2
33	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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	2.0	2.9	4.2
34	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	0.4	0.5	0.6	0.7	1.0	1.3	1.5	2.0	2.9	4.3
35	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	0.6	0.8	1.0	1.3	1.5	2.1	2.9	4.3
36	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	0.5	0.5	0.7	0.8	1.0	1.3	1.6	2.1	3.0	4.4
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.4	1.6	2.1	3.0	4.5
38	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	0.6	0.7	0.9	1.1	1.4	1.6	2.2	3.1	4.5
39	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	0.5	0.5	0.6	0.7	0.9	1.1	1.5	1.7	2.2	3.2	4.6
40	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	0.5	0.6	0.8	0.9	1.2	1.5	1.7	2.3	3.2	4.7
41	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.3	3.3	4.7
42	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	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.4	3.3	4.8
43	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	1.9	2.5	3.4	4.9
44	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.7	1.9	2.5	3.5	5.0
45	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	1.4	1.7	2.0	2.6	3.5	5.0
46	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	0.6	0.7	0.8	1.0	1.2	1.4	1.8	2.0	2.6	3.6	5.1
47	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	1.5	1.9	2.1	2.7	3.7	5.2
48	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	1.5	1.9	2.2	2.8	3.8	5.3
49	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	1.0	1.1	1.3	1.6	2.0	2.2	2.9	3.9	5.4
50	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	2.0	2.3	2.9	4.0	5.5

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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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.2	0.2	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	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	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.7
53	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.3	2.5	3.2	4.2	5.8
54	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	2.3	2.6	3.3	4.3	5.9
55	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.7	2.0	2.4	2.7	3.4	4.5	6.1
56	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
57	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
58	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
59	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	2.3	2.8	3.1	3.8	4.9	6.6
60	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.3	1.5	1.7	2.0	2.4	2.9	3.2	3.9	5.1	6.8
61	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	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	2.6	3.1	3.4	4.2	5.3	7.1
63	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	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	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	5.8	7.6
66	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	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	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	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	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	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	1.8	2.1	2.4	2.7	3.0	3.5	4.1	4.5	5.4	6.7	8.7
71	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.8	3.2	3.6	4.3	4.7	5.6	6.9	8.9
72	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	2.0	2.3	2.6	2.9	3.3	3.8	4.5	4.9	5.8	7.2	9.1
73	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	0.4	0.5	0.6	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.1	4.8	5.2	6.2	7.6	9.6
75	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	4.3	5.0	5.4	6.4	7.9	9.9
76	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	0.4	0.5	0.7	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.2	3.6	4.0	4.6	5.4	5.8	6.9	8.4	10.5
78	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	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.9	4.4	5.0	5.8	6.3	7.4	8.9	11.1
80	0.4	0.6	0.7	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6	4.1	4.6	5.2	6.0	6.5	7.6	9.2	11.5
81	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.8	4.2	4.8	5.4	6.3	6.8	7.9	9.6	11.8
82	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.8	3.1	3.5	3.9	4.4	5.0	5.6	6.5	7.0	8.2	9.9	12.2
83	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	0.4	0.6	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.4	6.1	7.1	7.6	8.8	10.6	13.0
85	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	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	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	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	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	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	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	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.3	3.7	4.0	4.5	4.9	5.4	6.1	6.7	7.5	8.5	9.7	10.4	11.9	14.0	16.7
93	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	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	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	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	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	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	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.7	3.3	4.0	4.6	5.2	5.8	6.4	7.1	7.9	8.7	9.7	10.9	12.3	13.1	14.9	17.4	20.5
99	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	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.2	4.9	5.7	6.4	7.0	7.7	8.6	9.5	10.5	11.8	13.4	14.2	16.1	18.7	22.0

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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 2 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.2	3.5
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.2	3.5
3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.3	3.5
4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.3	3.6
5	0.0	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	0.3	0.3	0.4	0.6	0.9	1.0	1.5	2.3	3.6
6	0.0	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	0.3	0.3	0.4	0.6	0.9	1.1	1.5	2.3	3.6
7	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.1	1.5	2.4	3.6
8	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	1.6	2.4	3.7
9	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	0.9	1.1	1.6	2.4	3.7
10	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
11	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	0.3	0.4	0.5	0.7	1.0	1.2	1.6	2.5	3.8
12	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	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.8
13	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	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.2	1.7	2.5	3.8
14	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	0.4	0.5	0.6	0.8	1.0	1.2	1.7	2.6	3.9
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	0.8	1.1	1.3	1.8	2.6	3.9
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	0.8	1.1	1.3	1.8	2.6	4.0
17	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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7	4.0
18	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	0.4	0.5	0.7	0.9	1.2	1.4	1.9	2.7	4.1
19	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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8	4.1
20	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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	2.0	2.8	4.2
21	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.3	1.5	2.0	2.9	4.2
22	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	0.6	0.8	1.0	1.3	1.5	2.0	2.9	4.3
23	0.1	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	0.5	0.6	0.7	0.8	1.0	1.3	1.6	2.1	3.0	4.4
24	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	0.6	0.7	0.8	1.1	1.4	1.6	2.1	3.0	4.4
25	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	0.7	0.9	1.1	1.4	1.6	2.2	3.1	4.5
26	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	0.5	0.6	0.7	0.9	1.1	1.5	1.7	2.2	3.1	4.6
27	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.2	1.5	1.7	2.3	3.2	4.6
28	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.4	3.3	4.7
29	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	3.4	4.8
30	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.8	0.9	1.1	1.3	1.7	1.9	2.5	3.4	4.9
31	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	1.4	1.7	2.0	2.6	3.5	5.0
32	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	1.0	1.2	1.4	1.8	2.0	2.6	3.6	5.1
33	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.9	2.1	2.7	3.7	5.2
34	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	1.1	1.3	1.5	1.9	2.2	2.8	3.8	5.3
35	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.9	3.8	5.4
36	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	1.7	2.1	2.3	2.9	3.9	5.5
37	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	1.1	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.6
38	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	0.8	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.2	5.7
39	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.6	1.9	2.3	2.6	3.2	4.3	5.8
40	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.4	2.7	3.3	4.4	6.0
41	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	1.7	2.0	2.5	2.8	3.4	4.5	6.1
42	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	3.5	4.6	6.2
43	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	6.4
44	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.3	2.8	3.1	3.8	4.9	6.5
45	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	2.0	2.4	2.9	3.2	3.9	5.0	6.7
46	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	1.4	1.6	1.8	2.1	2.5	3.0	3.3	4.0	5.2	6.9
47	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	0.9	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
48	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	2.0	2.3	2.7	3.2	3.6	4.3	5.5	7.2
49	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.5	1.6	1.9	2.1	2.4	2.8	3.4	3.7	4.5	5.7	7.4
50	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	1.5	1.7	1.9	2.2	2.5	2.9	3.5	3.8	4.6	5.9	7.6

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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 2 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.9	1.0	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	8.8
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	3.1	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	5.8	7.0	8.1	9.1	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	11.0	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

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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 3 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.0	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	1.6	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	0.9	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	0.2	0.2	0.2	0.3	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	0.2	0.2	0.2	0.3	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	0.2	0.2	0.2	0.2	0.3	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	0.3	0.3	0.4	0.4	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	0.2	0.2	0.2	0.2	0.3	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	0.2	0.2	0.2	0.2	0.3	0.3	0.4	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	0.2	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	4.1
13	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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8	4.2
14	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	1.0	1.3	1.5	2.0	2.9	4.2
15	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	0.6	0.8	1.0	1.3	1.5	2.0	2.9	4.3
16	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.6	2.1	3.0	4.3
17	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	0.6	0.7	0.8	1.1	1.4	1.6	2.1	3.0	4.4
18	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	0.5	0.5	0.6	0.7	0.9	1.1	1.4	1.7	2.2	3.1	4.5
19	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	0.8	0.9	1.1	1.5	1.7	2.3	3.2	4.6
20	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.3	3.2	4.6
21	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.4	3.3	4.7
22	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	0.6	0.7	0.9	1.0	1.3	1.6	1.9	2.4	3.4	4.8
23	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	3.5	4.9
24	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	0.8	1.0	1.1	1.4	1.8	2.0	2.6	3.5	5.0
25	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	1.5	1.8	2.1	2.7	3.6	5.1
26	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	1.1	1.3	1.5	1.9	2.1	2.7	3.7	5.2
27	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.8	3.8	5.3
28	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	3.9	5.4
29	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	1.1	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.5
30	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.7
31	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.6	1.9	2.3	2.6	3.2	4.2	5.8
32	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	2.0	2.4	2.7	3.3	4.4	5.9
33	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	1.7	2.0	2.5	2.8	3.4	4.5	6.1
34	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	1.4	1.6	1.8	2.1	2.6	2.9	3.6	4.6	6.2
35	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	6.4
36	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	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.9	6.6
37	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	2.9	3.2	3.9	5.1	6.7
38	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.4	1.7	1.9	2.2	2.5	3.0	3.3	4.1	5.2	6.9
39	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	1.5	1.7	2.0	2.3	2.6	3.2	3.5	4.2	5.4	7.1
40	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.8	3.3	3.6	4.4	5.6	7.3
41	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	1.9	2.2	2.5	2.9	3.4	3.8	4.6	5.8	7.5
42	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.6	3.9	4.7	5.9	7.7
43	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.4	2.7	3.2	3.7	4.1	4.9	6.1	7.9
44	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.3	3.9	4.3	5.1	6.4	8.2
45	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	1.8	2.1	2.3	2.6	3.0	3.4	4.1	4.4	5.3	6.6	8.4
46	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.2	2.4	2.8	3.1	3.6	4.2	4.6	5.5	6.8	8.7
47	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.3	3.8	4.4	4.8	5.7	7.0	9.0
48	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	2.4	2.7	3.0	3.4	3.9	4.6	5.0	5.9	7.3	9.2
49	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.2	3.6	4.1	4.8	5.2	6.2	7.6	9.5
50	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	3.0	3.3	3.8	4.3	5.0	5.4	6.4	7.8	9.8

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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 3 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	3.9	4.5	5.2	5.7	6.7	8.1	10.2
52	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.1	4.7	5.5	5.9	6.9	8.4	10.5
53	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.0	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.7	6.2	7.2	8.7	10.8
54	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.5	5.2	6.0	6.4	7.5	9.1	11.2
55	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.3	2.5	2.8	3.0	3.4	3.8	4.2	4.7	5.4	6.2	6.7	7.8	9.4	11.6
56	0.3	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.5	4.0	4.4	5.0	5.6	6.5	7.0	8.1	9.8	12.0
57	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3.0	3.4	3.7	4.2	4.6	5.2	5.9	6.8	7.3	8.5	10.1	12.4
58	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.9	4.4	4.9	5.5	6.2	7.1	7.6	8.8	10.5	12.8
59	0.2	0.3	0.5	0.6	0.9	1.1	1.4	1.7	2.1	2.4	2.7	3.0	3.4	3.7	4.1	4.6	5.1	5.7	6.5	7.4	8.0	9.2	10.9	13.3
60	0.2	0.3	0.5	0.6	0.9	1.2	1.4	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
61	0.2	0.3	0.4	0.6	0.9	1.2	1.5	1.8	2.2	2.6	3.0	3.4	3.7	4.1	4.5	5.0	5.6	6.3	7.1	8.1	8.7	10.0	11.8	14.3
62	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.8	2.2	2.7	3.1	3.5	3.9	4.3	4.7	5.3	5.9	6.6	7.4	8.4	9.0	10.4	12.3	14.8
63	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.3	2.8	3.2	3.7	4.1	4.5	5.0	5.6	6.2	6.9	7.7	8.8	9.4	10.8	12.7	15.3
64	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.8	3.3	3.8	4.3	4.7	5.2	5.8	6.5	7.2	8.1	9.2	9.9	11.3	13.3	15.9
65	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5	5.0	5.5	6.1	6.8	7.5	8.5	9.6	10.3	11.8	13.8	16.5
66	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.7	5.2	5.8	6.4	7.1	7.9	8.9	10.1	10.7	12.3	14.3	17.1
67	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.4	3.0	3.7	4.3	4.9	5.5	6.0	6.7	7.4	8.3	9.3	10.5	11.2	12.8	14.9	17.7
68	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.5	3.1	3.8	4.4	5.1	5.8	6.3	7.1	7.8	8.7	9.7	11.0	11.7	13.3	15.5	18.4
69	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	3.2	3.8	4.6	5.4	6.0	6.7	7.4	8.2	9.1	10.1	11.5	12.2	13.9	16.1	19.1
70	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	3.2	3.9	4.7	5.6	6.3	7.0	7.8	8.6	9.5	10.6	12.0	12.8	14.5	16.8	19.8
71	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.0	4.8	5.7	6.5	7.3	8.1	9.0	9.9	11.1	12.5	13.3	15.1	17.5	20.6
72	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.0	5.9	6.8	7.6	8.5	9.4	10.4	11.6	13.1	13.9	15.7	18.2	21.4
73	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.1	6.1	7.1	8.0	9.0	9.9	10.9	12.2	13.7	14.6	16.4	18.9	22.2
74	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.4	4.2	5.2	6.3	7.3	8.3	9.4	10.3	11.4	12.7	14.3	15.2	17.1	19.7	23.1
75	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.4	4.3	5.3	6.4	7.6	8.7	9.8	10.8	12.0	13.3	15.0	15.9	17.9	20.6	24.0
76	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.3	5.4	6.6	7.8	9.0	10.3	11.4	12.5	13.9	15.6	16.6	18.7	21.4	24.9
77	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.4	6.7	8.0	9.4	10.7	11.9	13.1	14.6	16.3	17.3	19.5	22.3	25.9
78	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	6.9	8.3	9.7	11.1	12.5	13.7	15.3	17.1	18.1	20.3	23.2	26.9
79	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.6	7.0	8.5	10.0	11.6	13.0	14.4	16.0	17.9	18.9	21.2	24.2	28.0
80	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.4	5.7	7.1	8.7	10.3	12.1	13.6	15.1	16.7	18.7	19.8	22.1	25.2	29.1
81	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.4	5.7	7.2	8.8	10.6	12.5	14.1	15.8	17.5	19.5	20.7	23.1	26.3	30.3
82	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.8	7.3	9.0	10.8	12.9	14.7	16.5	18.3	20.4	21.6	24.1	27.4	31.6
83	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.8	7.4	9.2	11.1	13.4	15.3	17.2	19.2	21.4	22.6	25.2	28.6	32.8
84	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.8	7.5	9.3	11.3	13.8	15.9	17.9	20.1	22.3	23.6	26.3	29.8	34.2
85	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	5.8	7.6	9.5	11.6	14.1	16.5	18.7	21.0	23.4	24.7	27.5	31.1	35.6
86	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.6	11.8	14.5	17.0	19.4	21.9	24.4	25.8	28.7	32.4	37.1
87	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.0	5.6	7.7	9.7	12.0	14.8	17.6	20.2	22.8	25.6	27.0	30.0	33.8	38.6
88	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.0	5.5	7.7	9.8	12.2	15.2	18.1	21.0	23.8	26.8	28.2	31.3	35.3	40.2
89	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	3.9	5.4	7.7	9.9	12.4	15.5	18.6	21.7	24.7	28.0	29.5	32.7	36.8	41.9
90	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.6	10.0	12.5	15.7	19.0	22.4	25.7	29.2	30.9	34.2	38.4	43.6
91	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5	10.0	12.7	16.0	19.5	23.1	26.8	30.4	32.3	35.7	40.1	45.5
92	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.8	5.2	7.3	10.0	12.8	16.3	19.9	23.7	27.8	31.6	33.7	37.3	41.9	47.4
93	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.7	5.2	7.2	10.0	13.0	16.5	20.2	24.3	28.7	32.9	35.0	39.0	43.7	49.4
94	0.1	0.2	0.2	0.3	0.4	0.7	0.9	1.3	1.8	2.6	3.7	5.1	7.1	9.9	13.1	16.8	20.6	24.9	29.6	34.2	36.5	40.8	45.6	51.5
95	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	7.0	9.7	13.1	17.0	21.0	25.5	30.5	35.6	37.9	42.6	47.7	53.7
96	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	5.0	6.9	9.5	13.1	17.2	21.3	26.0	31.3	36.9	39.4	44.4	49.8	56.1
97	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	6.8	9.4	13.0	17.4	21.6	26.5	32.1	38.1	41.0	46.2	52.0	58.5
98	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.3	12.8	17.5	21.9	27.0	32.9	39.3	42.5	48.0	54.3	61.0
99	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.7	9.1	12.6	17.6	22.2	27.4	33.7	40.5	43.9	49.9	56.8	63.7
100	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.7	6.6	9.0	12.4	17.5	22.5	27.9	34.3	41.6	45.3	51.9	59.1	66.5

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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 4 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.0	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	0.4	0.5	0.7	1.0	1.2	1.7	2.5	3.8
2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.2	1.7	2.5	3.8
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	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.2	1.7	2.6	3.9
4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.6	3.9
5	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	0.3	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.6	4.0
6	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	0.3	0.4	0.4	0.5	0.7	0.8	1.1	1.3	1.8	2.7	4.0
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	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.7	4.1
8	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	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8	4.1
9	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.3	1.5	2.0	2.8	4.2
10	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	0.6	0.8	1.0	1.3	1.5	2.0	2.9	4.2
11	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.5	2.1	3.0	4.3
12	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.1	1.4	1.6	2.1	3.0	4.4
13	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	0.5	0.5	0.6	0.7	0.9	1.1	1.4	1.6	2.2	3.1	4.5
14	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.8	0.9	1.1	1.5	1.7	2.2	3.1	4.5
15	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.8	2.3	3.2	4.6
16	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.4	3.3	4.7
17	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.8	0.9	1.1	1.3	1.6	1.9	2.4	3.4	4.8
18	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	1.4	1.7	1.9	2.5	3.5	4.9
19	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	1.0	1.2	1.4	1.8	2.0	2.6	3.5	5.0
20	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.8	2.1	2.7	3.6	5.1
21	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	2.8	3.7	5.2
22	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	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.9	3.8	5.3
23	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	1.0	1.2	1.4	1.7	2.1	2.3	3.0	3.9	5.4
24	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.5	1.7	2.2	2.4	3.0	4.1	5.6
25	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	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.7	4.2	5.7
26	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.9	2.3	2.6	3.3	4.3	5.8
27	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	1.4	1.7	2.0	2.4	2.7	3.4	4.4	6.0
28	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.8	2.1	2.5	2.8	3.5	4.6	6.1
29	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	4.7	6.3
30	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.3	2.8	3.1	3.8	4.8	6.5
31	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	3.2	3.9	5.0	6.6
32	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.2	6.8
33	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.2	2.6	3.1	3.4	4.2	5.3	7.0
34	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.7	3.3	3.6	4.4	5.5	7.2
35	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	2.2	2.5	2.9	3.4	3.7	4.5	5.7	7.4
36	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.6	3.9	4.7	5.9	7.7
37	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	1.9	2.1	2.4	2.7	3.1	3.7	4.1	4.9	6.1	7.9
38	0.3	0.4	0.5	0.5	0.7	0.8	0.9	1.0	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.3	3.9	4.2	5.1	6.3	8.1
39	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	1.8	2.1	2.3	2.6	3.0	3.4	4.1	4.4	5.3	6.6	8.4
40	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	1.9	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.5	6.8	8.7
41	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	2.3	2.6	2.9	3.3	3.8	4.4	4.8	5.7	7.0	8.9
42	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.8	1.9	2.2	2.4	2.7	3.0	3.4	4.0	4.6	5.0	5.9	7.3	9.2
43	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.1	2.3	2.5	2.9	3.2	3.6	4.1	4.8	5.2	6.2	7.6	9.5
44	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.1	5.5	6.4	7.9	9.9
45	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.5	4.0	4.5	5.3	5.7	6.7	8.2	10.2
46	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	2.9	3.3	3.7	4.2	4.8	5.5	6.0	7.0	8.5	10.5
47	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.8	3.1	3.5	3.9	4.4	5.0	5.8	6.2	7.3	8.8	10.9
48	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	3.3	3.7	4.1	4.6	5.2	6.0	6.5	7.6	9.1	11.3
49	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.3	2.5	2.8	3.1	3.4	3.9	4.3	4.8	5.5	6.3	6.8	7.9	9.5	11.7
50	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	3.6	4.1	4.5	5.1	5.7	6.6	7.1	8.3	9.9	12.1

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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 4 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.7	5.3	6.0	6.9	7.4	8.6	10.3	12.5
52	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.6	4.0	4.5	5.0	5.6	6.3	7.2	7.8	9.0	10.7	13.0
53	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.0	2.4	2.8	3.1	3.5	3.8	4.2	4.7	5.2	5.8	6.6	7.6	8.1	9.4	11.1	13.5
54	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.3	3.7	4.0	4.4	4.9	5.5	6.1	6.9	7.9	8.5	9.8	11.6	14.0
55	0.2	0.3	0.4	0.5	0.7	1.1	1.4	1.7	2.1	2.6	3.0	3.4	3.9	4.2	4.7	5.2	5.8	6.4	7.3	8.3	8.9	10.2	12.0	14.5
56	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.6	3.1	3.6	4.0	4.5	4.9	5.5	6.1	6.8	7.6	8.7	9.3	10.6	12.5	15.0
57	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.2	3.7	4.2	4.7	5.2	5.7	6.4	7.1	8.0	9.1	9.7	11.1	13.0	15.6
58	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.8	3.3	3.9	4.4	4.9	5.4	6.0	6.7	7.4	8.3	9.5	10.1	11.6	13.6	16.2
59	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.6	5.2	5.7	6.3	7.0	7.8	8.7	9.9	10.6	12.1	14.1	16.8
60	0.2	0.2	0.4	0.5	0.7	1.0	1.3	1.8	2.3	2.9	3.5	4.1	4.8	5.4	6.0	6.7	7.4	8.2	9.2	10.4	11.1	12.6	14.7	17.5
61	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.3	5.0	5.7	6.3	7.0	7.7	8.6	9.6	10.9	11.6	13.2	15.3	18.2
62	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	3.0	3.6	4.4	5.2	5.9	6.6	7.4	8.1	9.0	10.1	11.4	12.1	13.7	16.0	18.9
63	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.7	4.5	5.4	6.2	6.9	7.7	8.5	9.4	10.5	11.9	12.7	14.3	16.6	19.6
64	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.7	4.6	5.5	6.4	7.2	8.1	8.9	9.9	11.0	12.4	13.3	15.0	17.3	20.4
65	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.1	3.8	4.7	5.7	6.7	7.5	8.5	9.4	10.4	11.6	13.0	13.9	15.6	18.1	21.2
66	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.3	3.1	3.9	4.8	5.9	6.9	7.9	8.9	9.9	10.9	12.1	13.6	14.5	16.3	18.8	22.1
67	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.2	3.1	3.9	4.9	6.0	7.1	8.2	9.3	10.4	11.4	12.7	14.3	15.2	17.1	19.6	22.9
68	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.0	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	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.0	5.0	6.2	7.5	8.8	10.2	11.4	12.6	14.0	15.6	16.6	18.6	21.4	24.8
70	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.0	5.1	6.4	7.7	9.1	10.6	11.9	13.2	14.6	16.4	17.4	19.5	22.3	25.9
71	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.0	5.1	6.5	7.9	9.4	11.0	12.4	13.8	15.3	17.1	18.2	20.3	23.2	26.9
72	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	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	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.8	3.9	5.2	6.7	8.2	9.9	11.8	13.5	15.2	16.8	18.8	19.9	22.2	25.3	29.2
74	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	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	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	6.8	8.5	10.3	12.6	14.6	16.5	18.5	20.6	21.8	24.3	27.6	31.7
76	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.2	6.8	8.6	10.5	12.9	15.1	17.2	19.4	21.6	22.8	25.4	28.8	33.0
77	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	7.0	8.7	10.7	13.2	15.6	17.9	20.2	22.6	23.8	26.5	30.0	34.4
78	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.6	5.0	7.0	8.8	10.9	13.6	16.1	18.6	21.1	23.7	25.0	27.7	31.3	35.8
79	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.6	3.6	5.0	7.0	8.9	11.1	13.8	16.5	19.3	21.9	24.8	26.1	29.0	32.7	37.4
80	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.5	4.9	6.9	9.0	11.2	14.1	17.0	19.9	22.8	25.9	27.4	30.3	34.2	38.9
81	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.8	9.1	11.4	14.3	17.4	20.6	23.8	27.0	28.6	31.7	35.7	40.6
82	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.4	4.7	6.7	9.1	11.5	14.6	17.8	21.2	24.7	28.1	30.0	33.2	37.3	42.3
83	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.6	9.0	11.7	14.8	18.1	21.8	25.6	29.3	31.2	34.7	38.9	44.2
84	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.5	9.0	11.8	15.0	18.5	22.3	26.4	30.5	32.5	36.3	40.7	46.1
85	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.6	6.4	8.8	11.8	15.2	18.8	22.8	27.2	31.7	33.8	38.0	42.5	48.1
86	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.5	6.3	8.6	11.8	15.4	19.1	23.3	28.0	33.0	35.2	39.6	44.4	50.2
87	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.4	6.2	8.5	11.7	15.6	19.4	23.8	28.8	34.1	36.6	41.2	46.4	52.3
88	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.1	8.4	11.6	15.7	19.7	24.2	29.5	35.2	38.0	42.9	48.5	54.6
89	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	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	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	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.0	11.0	15.7	20.4	25.4	31.4	38.3	41.8	48.2	55.0	62.2
92	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	7.9	10.9	15.6	20.5	25.7	31.9	39.2	43.0	50.0	57.2	65.0
93	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.7	7.8	10.7	15.4	20.6	26.1	32.5	40.1	44.1	51.7	59.5	67.9
94	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.6	7.7	10.6	15.1	20.6	26.4	33.0	41.0	45.2	53.3	61.8	70.7
95	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.6	10.4	14.8	20.5	26.7	33.5	41.7	46.2	54.8	64.2	73.5
96	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.4	7.5	10.3	14.6	20.3	26.8	33.9	42.4	47.2	56.3	66.6	76.4
97	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.3	7.4	10.2	14.4	19.9	26.9	34.4	43.2	48.0	57.8	68.8	79.4
98	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.6	5.2	7.3	10.1	14.2	19.6	26.9	34.8	43.9	48.9	59.1	70.9	82.4
99	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.6	5.1	7.1	9.9	14.0	19.3	26.7	35.1	44.5	49.7	60.5	73.0	85.6
100	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	5.0	7.0	9.8	13.9	19.0	26.4	35.3	45.1	50.5	61.7	74.9	88.7

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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 5 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.1	0.1	0.1	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
2	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	0.4	0.5	0.6	0.8	1.1	1.3	1.8	2.7	4.0
3	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	0.4	0.5	0.7	0.9	1.2	1.4	1.9	2.7	4.0	
4	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	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8	4.1	
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	0.4	0.4	0.5	0.6	0.7	0.9	1.2	1.4	2.0	2.8	4.1	
6	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	0.6	0.8	1.0	1.3	1.5	2.0	2.9	4.2
7	0.1	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	0.5	0.5	0.7	0.8	1.0	1.3	1.5	2.1	2.9	4.3
8	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	0.6	0.7	0.8	1.0	1.4	1.6	2.1	3.0	4.4
9	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	0.7	0.9	1.1	1.4	1.6	2.2	3.1	4.4
10	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	0.8	0.9	1.1	1.5	1.7	2.2	3.1	4.5
11	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.7	2.3	3.2	4.6
12	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.4	3.3	4.7
13	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.8	0.9	1.1	1.3	1.6	1.9	2.4	3.4	4.8
14	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	4.9
15	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	1.0	1.2	1.4	1.8	2.0	2.6	3.5	5.0
16	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.8	2.1	2.7	3.6	5.1
17	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	2.8	3.7	5.2
18	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	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.9	3.8	5.3
19	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	1.0	1.2	1.4	1.7	2.1	2.3	2.9	3.9	5.4
20	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.3	1.5	1.8	2.2	2.4	3.1	4.1	5.6
21	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	2.3	2.5	3.2	4.2	5.7
22	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.9	2.3	2.6	3.3	4.3	5.8
23	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	1.7	2.0	2.4	2.7	3.4	4.4	6.0
24	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.8	2.1	2.6	2.8	3.5	4.6	6.2
25	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.7	3.0	3.6	4.7	6.3
26	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.9	6.5
27	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	2.9	3.2	3.9	5.0	6.7
28	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	2.5	3.0	3.3	4.1	5.2	6.9
29	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	1.5	1.8	2.0	2.3	2.7	3.2	3.5	4.2	5.4	7.1
30	0.3	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	2.1	2.4	2.8	3.3	3.6	4.4	5.6	7.3
31	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.5	3.8	4.6	5.8	7.5
32	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	3.1	3.6	4.0	4.8	6.0	7.7
33	0.3	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	2.4	2.8	3.2	3.8	4.1	5.0	6.2	8.0
34	0.3	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	2.6	2.9	3.4	4.0	4.3	5.2	6.4	8.2
35	0.3	0.3	0.4	0.5	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	3.5	4.1	4.5	5.4	6.7	8.5
36	0.2	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	3.7	4.3	4.7	5.6	6.9	8.8
37	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.2	9.1
38	0.2	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	2.8	3.1	3.6	4.1	4.7	5.2	6.1	7.5	9.4
39	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.7	1.9	2.1	2.4	2.6	3.0	3.3	3.7	4.3	5.0	5.4	6.3	7.7	9.7
40	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.5	5.2	5.6	6.6	8.0	10.0
41	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	1.9	2.1	2.4	2.6	2.9	3.3	3.7	4.1	4.7	5.4	5.9	6.9	8.4	10.4
42	0.2	0.3	0.4	0.6	0.7	0.9	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.1	3.4	3.9	4.3	4.9	5.7	6.2	7.2	8.7	10.8
43	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.7	2.9	3.2	3.6	4.1	4.6	5.2	6.0	6.4	7.5	9.0	11.2
44	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	3.4	3.8	4.3	4.8	5.4	6.3	6.7	7.8	9.4	11.6
45	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	3.3	3.6	4.0	4.5	5.0	5.7	6.5	7.1	8.2	9.8	12.0
46	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.3	6.0	6.9	7.4	8.5	10.2	12.4
47	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.6	3.0	3.3	3.6	4.0	4.5	5.0	5.5	6.3	7.2	7.7	8.9	10.6	12.9
48	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.4	2.7	3.1	3.5	3.8	4.2	4.7	5.2	5.8	6.6	7.5	8.1	9.3	11.0	13.4
49	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.7	4.0	4.4	4.9	5.5	6.1	6.9	7.9	8.5	9.7	11.5	13.9
50	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	4.7	5.2	5.8	6.4	7.2	8.3	8.8	10.1	12.0	14.4

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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 5 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.2	0.2	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	6.1	6.8	7.6	8.6	9.3	10.6	12.5	15.0
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	6.4	7.1	8.0	9.1	9.7	11.1	13.0	15.6
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	6.7	7.5	8.4	9.5	10.1	11.6	13.6	16.2
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	7.1	7.8	8.8	9.9	10.6	12.1	14.1	16.8
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	7.4	8.2	9.2	10.4	11.1	12.6	14.7	17.5
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	7.8	8.6	9.7	10.9	11.6	13.2	15.4	18.2
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	8.2	9.1	10.1	11.4	12.2	13.8	16.0	18.9
58	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.5	4.3	5.3	6.1	6.9	7.8	8.6	9.5	10.6	12.0	12.8	14.4	16.7	19.7
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	9.1	10.0	11.2	12.6	13.4	15.1	17.4	20.5
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	9.5	10.5	11.7	13.2	14.0	15.8	18.2	21.3
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	10.0	11.0	12.3	13.8	14.7	16.5	19.0	22.2
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	10.5	11.6	12.9	14.5	15.3	17.3	19.8	23.1
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	11.0	12.2	13.5	15.2	16.1	18.1	20.7	24.1
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	11.5	12.8	14.2	15.9	16.8	18.9	21.6	25.1
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	12.0	13.4	14.9	16.6	17.6	19.8	22.6	26.2
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	12.5	14.1	15.6	17.4	18.5	20.7	23.6	27.3
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	13.1	14.7	16.4	18.3	19.3	21.6	24.6	28.4
68	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.6	3.5	4.9	6.3	7.9	9.6	11.7	13.6	15.3	17.2	19.2	20.3	22.6	25.7	29.6
69	0.1	0.2	0.2	0.3	0.4	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.0	9.8	12.0	14.1	16.0	18.0	20.1	21.2	23.7	26.9	30.9
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	14.5	16.7	18.8	21.1	22.2	24.8	28.1	32.2
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	15.0	17.4	19.6	22.1	23.3	25.9	29.3	33.6
72	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.6	6.4	8.3	10.3	12.9	15.4	18.0	20.5	23.1	24.4	27.1	30.6	35.0
73	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.2	4.5	6.4	8.4	10.4	13.1	15.8	18.6	21.3	24.2	25.6	28.4	32.0	36.6
74	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.3	8.4	10.6	13.3	16.2	19.2	22.2	25.3	26.8	29.7	33.5	38.1
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	16.5	19.7	23.1	26.3	28.0	31.1	35.0	39.8
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	8.3	10.8	13.8	16.9	20.3	23.9	27.4	29.2	32.6	36.6	41.5
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	17.2	20.8	24.7	28.6	30.4	34.1	38.3	43.4
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	5.9	8.1	10.9	14.2	17.5	21.3	25.4	29.7	31.7	35.7	40.0	45.3
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	5.8	7.9	10.9	14.3	17.8	21.7	26.2	30.9	33.0	37.2	41.8	47.3
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	14.5	18.0	22.1	26.9	31.9	34.3	38.7	43.8	49.4
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	18.3	22.5	27.5	32.9	35.6	40.3	45.8	51.6
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	18.5	22.9	28.1	33.9	36.8	42.0	47.9	53.9
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	18.7	23.3	28.7	34.9	38.0	43.6	49.8	56.3
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	18.9	23.6	29.2	35.8	39.1	45.4	51.8	58.8
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	5.3	7.3	10.0	14.3	19.0	23.9	29.7	36.6	40.2	47.0	53.9	61.4
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	19.0	24.2	30.2	37.4	41.2	48.5	56.1	64.2
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	19.0	24.5	30.7	38.2	42.2	50.0	58.3	66.8
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	18.8	24.7	31.1	38.8	43.1	51.4	60.6	69.4
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	18.6	24.8	31.5	39.6	44.0	52.7	62.6	72.1
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	9.3	13.2	18.2	24.8	31.9	40.2	44.8	54.1	64.6	75.0
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	17.9	24.7	32.3	40.8	45.6	55.3	66.6	77.9
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	17.6	24.5	32.5	41.4	46.3	56.5	68.5	80.9
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	8.9	12.7	17.4	24.1	32.7	42.0	47.0	57.5	70.3	83.6
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	17.2	23.6	32.7	42.5	47.7	58.5	72.0	86.2
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	16.9	23.3	32.5	42.9	48.3	59.5	73.6	88.8
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	16.7	22.9	32.2	43.3	48.9	60.5	75.2	91.3
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	16.5	22.6	31.7	43.5	49.4	61.4	76.6	93.6
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	16.3	22.3	31.1	43.5	49.8	62.2	77.9	95.9
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	16.1	22.0	30.7	43.3	50.0	63.1	79.2	98.1
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	15.9	21.8	30.2	42.9	50.1	63.8	80.5	100.1

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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

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.7	4.1
2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.2	1.4	1.9	2.8	4.1
3	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	0.6	0.8	1.0	1.3	1.5	2.0	2.9	4.2
4	0.1	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	0.5	0.5	0.7	0.8	1.0	1.3	1.5	2.1	2.9	4.3
5	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	0.6	0.7	0.8	1.0	1.4	1.6	2.1	3.0	4.3
6	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	0.7	0.9	1.1	1.4	1.6	2.2	3.0	4.4
7	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	0.8	0.9	1.1	1.5	1.7	2.2	3.1	4.5
8	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.5	1.7	2.3	3.2	4.6
9	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.4	3.3	4.7
10	0.1	0.2	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	0.8	0.9	1.1	1.3	1.6	1.9	2.4	3.4	4.8
11	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	1.4	1.7	1.9	2.5	3.4	4.9
12	0.2	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	1.0	1.2	1.4	1.8	2.0	2.6	3.5	5.0
13	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.9	2.1	2.7	3.6	5.1
14	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	2.8	3.7	5.2
15	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	2.3	2.9	3.8	5.3
16	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.7	2.1	2.3	3.0	4.0	5.4
17	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	0.8	1.0	1.1	1.3	1.5	1.8	2.2	2.4	3.1	4.1	5.6
18	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	1.3	1.6	1.9	2.3	2.5	3.2	4.2	5.7
19	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.9
20	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	2.5	2.8	3.4	4.5	6.0
21	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.9	3.6	4.6	6.2
22	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	1.4	1.7	1.9	2.2	2.7	3.0	3.7	4.8	6.4
23	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.4	2.8	3.1	3.8	4.9	6.6
24	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.5	3.0	3.3	4.0	5.1	6.7
25	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	2.6	3.1	3.4	4.1	5.3	6.9
26	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.6	4.3	5.5	7.2
27	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	2.5	2.9	3.4	3.7	4.5	5.7	7.4
28	0.3	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	2.6	3.0	3.5	3.9	4.7	5.9	7.6
29	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	2.1	2.4	2.7	3.1	3.7	4.1	4.9	6.1	7.9
30	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.1	6.3	8.1
31	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	2.6	3.0	3.5	4.1	4.4	5.3	6.6	8.4
32	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.3	4.6	5.5	6.8	8.7
33	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	2.3	2.6	2.9	3.3	3.8	4.5	4.9	5.7	7.1	9.0
34	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	2.4	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.3
35	0.2	0.3	0.4	0.6	0.7	0.9	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	6.3	7.6	9.6
36	0.2	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	3.1	3.4	3.9	4.4	5.1	5.6	6.5	7.9	9.9
37	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.1	4.6	5.4	5.8	6.8	8.3	10.3
38	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.3	4.9	5.6	6.1	7.1	8.6	10.7
39	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.5	5.1	5.9	6.4	7.4	8.9	11.1
40	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.4	6.2	6.7	7.8	9.3	11.5
41	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.0	5.6	6.5	7.0	8.1	9.7	11.9
42	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.2	5.9	6.8	7.3	8.5	10.1	12.3
43	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.6	2.9	3.3	3.6	4.0	4.4	4.9	5.5	6.2	7.1	7.7	8.9	10.5	12.8
44	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.5	3.8	4.2	4.7	5.2	5.8	6.5	7.5	8.0	9.3	11.0	13.3
45	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.1	6.9	7.9	8.4	9.7	11.4	13.8
46	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.9	3.4	3.8	4.2	4.7	5.2	5.8	6.4	7.2	8.2	8.8	10.1	11.9	14.4
47	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.5	4.0	4.5	4.9	5.5	6.1	6.8	7.6	8.6	9.2	10.6	12.4	15.0
48	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.6	4.2	4.7	5.2	5.8	6.4	7.1	8.0	9.1	9.7	11.1	13.0	15.5
49	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.6	3.1	3.7	4.4	4.9	5.5	6.1	6.7	7.5	8.4	9.5	10.2	11.6	13.5	16.2
50	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.6	3.2	3.8	4.5	5.2	5.8	6.4	7.1	7.9	8.8	10.0	10.6	12.1	14.1	16.8

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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

TEMPERATURE, DEGREES FAHRENHEIT	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	2.4	3.3	4.6	6.0	7.5	9.1	11.2	13.1	14.8	16.7	18.6	19.7	21.9	25.0	28.8
64	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
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	11.8	13.9	16.1	18.2	20.5	21.6	24.1	27.3	31.3
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	1.6	2.2	3.1	4.3	6.0	7.8	9.8	12.2	14.8	17.3	19.8	22.5	23.8	26.4	29.8	34.1
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	2.1	2.9	4.0	5.6	7.8	10.2	13.1	16.1	19.5	23.1	26.7	28.4	31.8	35.7	40.6
72	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	19.9	23.8	27.8	29.6	33.3	37.4	42.4
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	3.5	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	17.8	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	2.1	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	39.8	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	9.9	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	26.5	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

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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 7 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.8	1.0	1.3	1.5	2.0	2.9	4.2
2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	1.0	1.3	1.6	2.1	2.9	4.3
3	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	0.7	0.9	1.1	1.4	1.6	2.1	3.0	4.4
4	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	0.5	0.6	0.7	0.9	1.1	1.4	1.7	2.2	3.1	4.4
5	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	1.2	1.5	1.7	2.3	3.2	4.5
6	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	1.0	1.2	1.6	1.8	2.3	3.2	4.6
7	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	0.6	0.7	0.9	1.0	1.3	1.6	1.8	2.4	3.3	4.7
8	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
9	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	0.8	1.0	1.1	1.4	1.8	2.0	2.6	3.5	4.9
10	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	1.5	1.8	2.1	2.6	3.6	5.0
11	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
12	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	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.8	3.8	5.3
13	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	1.0	1.2	1.4	1.7	2.1	2.3	2.9	3.9	5.4
14	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.3	1.5	1.7	2.2	2.4	3.0	4.0	5.5
15	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	2.3	2.5	3.2	4.2	5.7
16	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.8
17	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	1.3	1.5	1.7	2.0	2.5	2.7	3.4	4.4	6.0
18	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.8	3.5	4.6	6.1
19	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	1.4	1.6	1.9	2.2	2.7	3.0	3.7	4.7	6.3
20	0.2	0.3	0.3	0.4	0.5	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	3.1	3.8	4.9	6.5
21	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.9	3.2	4.0	5.1	6.7
22	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	2.6	3.1	3.4	4.1	5.2	6.9
23	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.3	5.4	7.1
24	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.4	2.8	3.4	3.7	4.5	5.6	7.3
25	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	2.6	3.0	3.5	3.9	4.7	5.8	7.6
26	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	2.1	2.4	2.7	3.1	3.7	4.0	4.9	6.1	7.8
27	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.1	6.3	8.1
28	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	2.6	3.0	3.5	4.1	4.4	5.3	6.5	8.4
29	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	3.2	3.6	4.3	4.6	5.5	6.8	8.6
30	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	2.3	2.6	2.9	3.3	3.8	4.5	4.9	5.7	7.1	8.9
31	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	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.3
32	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	2.3	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.3	7.6	9.6
33	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.5	1.7	1.8	2.0	2.2	2.5	2.7	3.1	3.5	3.9	4.4	5.2	5.6	6.5	8.0	9.9
34	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.7	5.4	5.8	6.8	8.3	10.3
35	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	3.4	3.8	4.3	4.9	5.7	6.1	7.1	8.6	10.7
36	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.2	6.0	6.4	7.5	9.0	11.1
37	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.4	6.2	6.7	7.8	9.4	11.5
38	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	5.7	6.6	7.1	8.2	9.8	12.0
39	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.8	4.3	4.7	5.3	6.0	6.9	7.4	8.5	10.2	12.4
40	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.8	2.2	2.6	2.9	3.3	3.7	4.0	4.5	5.0	5.6	6.3	7.2	7.8	8.9	10.6	12.9
41	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.5	1.8	2.3	2.7	3.1	3.5	3.9	4.3	4.8	5.3	5.9	6.6	7.6	8.1	9.4	11.1	13.4
42	0.2	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	7.0	8.0	8.5	9.8	11.6	14.0
43	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.8	3.4	3.9	4.3	4.7	5.3	5.9	6.5	7.3	8.4	8.9	10.2	12.1	14.5
44	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	4.5	5.0	5.6	6.2	6.9	7.7	8.8	9.4	10.7	12.6	15.1
45	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	5.3	5.9	6.5	7.2	8.1	9.2	9.8	11.2	13.2	15.7
46	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.0	3.7	4.4	5.0	5.6	6.2	6.9	7.6	8.5	9.7	10.3	11.8	13.7	16.4
47	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.0	2.5	3.1	3.8	4.5	5.2	5.9	6.6	7.2	8.0	9.0	10.1	10.8	12.3	14.3	17.0
48	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.0	2.6	3.2	3.9	4.7	5.4	6.1	6.9	7.6	8.4	9.4	10.7	11.4	12.9	15.0	17.8
49	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.2	4.0	4.8	5.7	6.4	7.3	8.0	8.9	9.9	11.2	11.9	13.5	15.7	18.5
50	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.0	5.0	5.9	6.7	7.6	8.5	9.3	10.4	11.7	12.5	14.1	16.4	19.3

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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 7 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	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	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.2	5.3	6.4	7.5	8.8	9.8	10.9	12.1	13.6	14.4	16.3	18.7	21.9
54	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	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	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	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.4	5.6	6.9	8.4	10.2	11.8	13.2	14.8	16.5	17.5	19.6	22.4	25.9
58	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	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	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.8	7.3	9.0	11.1	13.1	15.1	17.1	19.2	20.3	22.6	25.6	29.5
61	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	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	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	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	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	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	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	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	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	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	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	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	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	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.3	3.3	4.7	6.5	8.9	12.7	16.9	21.3	26.4	32.6	35.8	41.8	48.1	54.8
75	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	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	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.5	6.2	8.5	12.0	16.7	21.9	27.7	34.6	38.4	45.8	54.1	62.1
78	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	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	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	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	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.0	11.4	15.6	21.6	28.9	36.9	41.3	50.4	61.2	72.6
82	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	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	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	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	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	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	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	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	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	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	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.3	4.6	6.5	9.5	13.2	18.4	25.6	35.9	42.7	57.7	74.8	94.3
93	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	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	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	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	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	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	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	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

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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 8 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.1	1.4	1.6	2.1	3.0	4.4
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	0.7	0.9	1.1	1.4	1.7	2.2	3.1	4.4
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	0.8	0.9	1.2	1.5	1.7	2.3	3.2	4.5
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	0.8	1.0	1.2	1.6	1.8	2.3	3.2	4.6
5	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.9	1.0	1.3	1.6	1.9	2.4	3.3	4.7
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	0.9	1.1	1.3	1.7	1.9	2.5	3.4	4.8
7	0.2	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	1.0	1.2	1.4	1.8	2.0	2.6	3.5	4.9
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	0.7	0.8	0.9	1.0	1.2	1.5	1.8	2.1	2.7	3.6	5.0
9	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	2.8	3.7	5.2
10	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	2.3	2.9	3.8	5.3
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	1.2	1.4	1.7	2.1	2.3	3.0	3.9	5.4
12	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	0.8	1.0	1.1	1.3	1.5	1.8	2.2	2.4	3.1	4.1	5.6
13	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.2	1.3	1.6	1.9	2.3	2.5	3.2	4.2	5.7
14	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	1.6	2.0	2.4	2.7	3.3	4.3	5.9
15	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.1	2.5	2.8	3.4	4.5	6.0
16	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.6	2.9	3.6	4.6	6.2
17	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.3	2.7	3.0	3.7	4.8	6.4
18	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.9	3.2	3.9	5.0	6.6
19	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	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	6.8
20	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.5	4.2	5.3	7.0
21	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	1.8	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
22	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.8	4.6	5.7	7.4
23	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	3.1	3.6	4.0	4.7	5.9	7.7
24	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	1.9	2.2	2.4	2.8	3.2	3.8	4.1	5.0	6.2	7.9
25	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.4	4.0	4.3	5.2	6.4	8.2
26	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	2.4	2.7	3.1	3.6	4.2	4.5	5.4	6.7	8.5
27	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.6	2.9	3.3	3.7	4.4	4.8	5.6	6.9	8.8
28	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	3.0	3.4	3.9	4.6	5.0	5.9	7.2	9.1
29	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	2.9	3.2	3.6	4.1	4.8	5.2	6.2	7.5	9.4
30	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.4	5.1	5.5	6.4	7.8	9.8
31	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	2.6	2.8	3.2	3.6	4.0	4.6	5.3	5.7	6.7	8.2	10.2
32	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	3.4	3.8	4.2	4.8	5.6	6.0	7.0	8.5	10.5
33	0.2	0.2	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	3.6	4.0	4.5	5.1	5.9	6.3	7.4	8.9	10.9
34	0.2	0.2	0.3	0.5	0.6	0.9	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.2	4.7	5.3	6.2	6.6	7.7	9.2	11.4
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	4.4	5.0	5.6	6.5	7.0	8.1	9.6	11.8
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	4.7	5.2	5.9	6.8	7.3	8.4	10.1	12.3
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	4.9	5.5	6.2	7.1	7.7	8.8	10.5	12.8
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	5.2	5.8	6.6	7.5	8.0	9.2	11.0	13.3
39	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.6	4.1	4.5	5.0	5.5	6.1	6.9	7.9	8.4	9.7	11.4	13.8
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	5.8	6.5	7.3	8.3	8.9	10.1	11.9	14.4
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	6.1	6.8	7.6	8.7	9.3	10.6	12.5	15.0
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	6.5	7.2	8.0	9.1	9.8	11.1	13.0	15.6
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	6.8	7.6	8.5	9.6	10.2	11.7	13.6	16.2
44	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.7	4.5	5.2	5.8	6.5	7.2	8.0	8.9	10.1	10.8	12.2	14.3	16.9
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	7.6	8.4	9.4	10.6	11.3	12.8	14.9	17.7
46	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.1	3.9	4.7	5.6	6.4	7.2	8.0	8.8	9.9	11.1	11.9	13.4	15.6	18.4
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	8.4	9.3	10.4	11.7	12.5	14.1	16.3	19.2
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	8.9	9.8	10.9	12.3	13.1	14.8	17.0	20.0
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	9.4	10.3	11.5	12.9	13.7	15.5	17.8	20.9
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	9.8	10.9	12.1	13.6	14.4	16.2	18.7	21.8

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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 8 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.2	5.2	6.4	7.7	9.1	10.3	11.5	12.7	14.3	15.1	17.0	19.5	22.8
52	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.3	6.5	7.9	9.4	10.7	12.1	13.4	15.0	15.9	17.8	20.4	23.8
53	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.2	5.4	6.6	8.1	9.7	11.2	12.6	14.1	15.8	16.7	18.7	21.4	24.8
54	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.5	6.8	8.3	10.1	11.7	13.2	14.9	16.6	17.6	19.6	22.4	25.9
55	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.0	4.1	5.5	6.9	8.4	10.3	12.1	13.8	15.6	17.4	18.4	20.6	23.5	27.1
56	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.1	5.5	7.0	8.6	10.6	12.6	14.4	16.3	18.3	19.4	21.6	24.6	28.3
57	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	8.7	10.9	13.0	15.1	17.1	19.3	20.3	22.7	25.7	29.6
58	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.1	2.8	3.9	5.5	7.1	8.9	11.1	13.3	15.6	17.8	20.2	21.4	23.8	26.9	30.9
59	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.4	7.2	9.0	11.3	13.7	16.2	18.6	21.2	22.5	24.9	28.2	32.3
60	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.3	7.2	9.1	11.5	14.0	16.7	19.4	22.1	23.6	26.2	29.6	33.8
61	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.2	7.1	9.2	11.7	14.3	17.2	20.2	23.1	24.7	27.5	31.0	35.3
62	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.1	7.1	9.3	11.9	14.6	17.6	20.9	24.1	25.7	28.8	32.4	36.9
63	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.3	12.0	14.9	18.1	21.6	25.2	26.9	30.2	34.0	38.6
64	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.9	6.8	9.3	12.2	15.1	18.5	22.2	26.2	28.0	31.6	35.6	40.4
65	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	6.7	9.2	12.3	15.3	18.8	22.9	27.2	29.2	33.0	37.3	42.3
66	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.6	9.1	12.4	15.6	19.2	23.4	28.1	30.4	34.4	39.1	44.2
67	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.7	6.5	8.9	12.4	15.8	19.5	24.0	28.9	31.4	35.9	41.0	46.3
68	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.3	3.3	4.6	6.3	8.7	12.4	15.9	19.8	24.5	29.8	32.5	37.4	42.7	48.4
69	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.6	6.3	8.6	12.3	16.1	20.1	24.9	30.6	33.5	38.9	44.6	50.7
70	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.5	6.2	8.4	12.1	16.2	20.4	25.4	31.3	34.4	40.3	46.4	53.1
71	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.1	8.3	11.8	16.2	20.6	25.8	32.0	35.3	41.6	48.3	55.5
72	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.0	8.2	11.6	16.1	20.9	26.2	32.6	36.2	42.9	50.3	57.8
73	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.0	3.0	4.2	5.9	8.1	11.5	15.9	21.0	26.6	33.2	36.9	44.1	52.3	60.1
74	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.0	11.3	15.6	21.0	26.9	33.8	37.6	45.3	54.1	62.6
75	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.7	7.9	11.1	15.3	21.0	27.2	34.4	38.3	46.4	55.8	65.1
76	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.8	4.0	5.6	7.7	11.0	15.0	20.8	27.5	34.9	39.0	47.5	57.5	67.7
77	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.9	5.5	7.6	10.8	14.8	20.6	27.6	35.4	39.6	48.4	59.0	70.2
78	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.7	3.8	5.3	7.5	10.7	14.6	20.1	27.7	35.8	40.2	49.3	60.6	72.5
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.3	10.5	14.4	19.8	27.6	36.2	40.7	50.2	62.0	74.8
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.7	5.1	7.2	10.4	14.2	19.5	27.3	36.6	41.3	51.0	63.4	76.9
81	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	7.1	10.2	14.0	19.2	26.9	36.7	41.7	51.8	64.6	79.0
82	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	6.9	10.0	13.9	18.9	26.4	36.8	42.1	52.5	65.7	81.0
83	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	9.8	13.6	18.7	26.0	36.7	42.3	53.2	66.9	82.9
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.6	9.6	13.4	18.4	25.6	36.3	42.3	53.9	68.0	84.7
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.5	9.5	13.2	18.2	25.2	35.8	42.2	54.4	69.0	86.3
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.2	4.5	6.4	9.3	13.0	18.0	24.9	35.1	41.8	54.8	70.0	87.7
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.3	9.1	12.7	17.7	24.5	34.5	41.2	55.0	70.9	89.3
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.1	4.3	6.2	8.9	12.5	17.4	24.2	34.0	40.3	55.0	71.7	90.7
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.0	8.8	12.3	17.1	24.0	33.5	39.8	54.7	72.5	92.1
90	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	5.9	8.6	12.1	16.9	23.7	33.1	39.2	54.1	73.0	93.3
91	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	5.7	8.4	11.9	16.6	23.3	32.7	38.6	53.2	73.2	94.5
92	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.0	5.6	8.3	11.6	16.3	22.9	32.3	38.1	52.2	73.2	95.6
93	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	5.5	8.1	11.4	16.0	22.6	31.9	37.6	51.5	72.8	96.6
94	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	3.8	5.4	7.9	11.2	15.7	22.2	31.5	37.2	50.8	72.1	97.3
95	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	3.7	5.3	7.7	11.0	15.4	21.8	31.1	36.8	50.1	70.9	97.6
96	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	3.6	5.2	7.6	10.8	15.1	21.4	30.6	36.3	49.4	69.6	97.6
97	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	3.6	5.1	7.4	10.5	14.8	21.0	30.1	35.8	48.8	68.6	97.2
98	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.5	3.5	5.0	7.3	10.3	14.5	20.7	29.6	35.3	48.3	67.7	96.2
99	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.7	2.4	3.4	4.8	7.2	10.1	14.3	20.3	29.1	34.7	47.8	66.8	94.6
100	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.7	2.4	3.3	4.7	7.0	9.9	14.0	19.9	28.6	34.1	47.1	65.9	92.9

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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 9 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	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	0.3	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	0.6	0.6	0.7	0.9	1.0	1.3	1.6	1.8	2.4	3.3	4.7
4	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
5	0.2	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	1.0	1.1	1.4	1.8	2.0	2.6	3.5	4.9
6	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.8	2.1	2.7	3.6	5.0
7	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	2.8	3.7	5.2
8	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	2.9	3.8	5.3
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	1.2	1.4	1.7	2.1	2.3	3.0	3.9	5.4
10	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.4	3.1	4.1	5.6
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	0.3	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
13	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.1	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	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.6	2.9	3.6	4.6	6.2
15	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.3	2.7	3.0	3.7	4.8	6.4
16	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
17	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.2	1.3	1.4	1.7	1.9	2.2	2.5	3.0	3.3	4.0	5.1	6.8
18	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.2	3.5	4.2	5.3	7.0
19	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
20	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.8	7.5
21	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	6.0	7.7
22	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
23	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	2.1	2.3	2.6	3.0	3.4	4.0	4.4	5.2	6.5	8.3
24	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	3.1	3.6	4.2	4.6	5.4	6.7	8.5
25	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	8.9
26	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
27	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.2	4.9	5.3	6.2	7.6	9.5
28	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	2.5	2.7	3.1	3.4	3.9	4.4	5.1	5.5	6.5	7.9	9.9
29	0.2	0.2	0.3	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
30	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.3	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.7	6.1	7.1	8.6	10.6
31	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.6	4.1	4.5	5.2	6.0	6.4	7.5	9.0	11.1
32	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
33	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.0	2.4	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
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	0.6	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	1.8	2.2	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	4.3	4.8	5.4	5.9	6.6	7.4	8.4	9.0	10.3	12.2	14.6
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	0.9	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	7.0	8.1	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	5.1	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

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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 9 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.0	5.3	6.6	8.0	9.8	11.4	13.0	14.6	16.3	17.2	19.3	22.0	25.5
52	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	2.8	4.0	5.3	6.7	8.2	10.1	11.9	13.6	15.3	17.1	18.1	20.2	23.1	26.6
53	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	6.7	8.3	10.3	12.3	14.2	16.0	18.0	19.1	21.3	24.2	27.9
54	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	6.8	8.5	10.6	12.6	14.7	16.8	19.0	20.0	22.3	25.3	29.1
55	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.7	5.3	6.9	8.6	10.8	13.0	15.3	17.5	19.9	21.1	23.4	26.5	30.5
56	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.7	5.2	6.9	8.7	11.0	13.3	15.8	18.3	20.9	22.2	24.6	27.8	31.9
57	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	6.9	8.8	11.2	13.6	16.3	19.1	21.8	23.2	25.8	29.2	33.3
58	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.5	5.0	6.9	8.9	11.4	13.9	16.8	19.8	22.8	24.3	27.1	30.6	34.9
59	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.9	6.8	9.0	11.5	14.2	17.2	20.5	23.8	25.4	28.5	32.1	36.5
60	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.4	4.8	6.6	9.0	11.7	14.4	17.6	21.1	24.8	26.5	29.9	33.6	38.2
61	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	6.5	8.9	11.8	14.7	18.0	21.7	25.8	27.6	31.2	35.3	40.0
62	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	8.8	11.9	14.9	18.3	22.3	26.7	28.8	32.6	37.0	41.9
63	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	6.2	8.6	12.0	15.1	18.6	22.9	27.5	29.9	34.0	38.8	43.8
64	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2	4.5	6.1	8.5	12.0	15.3	19.0	23.4	28.4	30.9	35.4	40.5	45.9
65	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	11.9	15.4	19.2	23.8	29.1	31.9	36.9	42.3	48.1
66	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	6.0	8.2	11.7	15.5	19.5	24.3	29.9	32.8	38.3	44.1	50.3
67	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	5.9	8.0	11.5	15.5	19.8	24.7	30.6	33.7	39.6	45.9	52.7
68	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.2	5.8	7.9	11.3	15.5	20.0	25.1	31.2	34.5	40.9	47.8	54.9
69	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	7.8	11.1	15.3	20.2	25.4	31.8	35.3	42.1	49.8	57.2
70	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	7.7	10.9	15.1	20.2	25.8	32.4	36.0	43.3	51.5	59.6
71	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.4	1.9	2.7	3.9	5.5	7.6	10.7	14.8	20.2	26.1	32.9	36.7	44.4	53.2	62.0
72	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	7.5	10.6	14.5	20.1	26.4	33.4	37.3	45.4	54.9	64.5
73	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.8	5.3	7.3	10.4	14.3	19.8	26.5	33.9	37.9	46.4	56.4	67.0
74	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	10.3	14.1	19.4	26.6	34.3	38.5	47.2	57.9	69.3
75	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	5.1	7.1	10.1	13.8	19.1	26.5	34.7	39.0	48.1	59.3	71.5
76	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	6.9	10.0	13.7	18.8	26.3	35.1	39.5	48.9	60.7	73.6
77	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	6.8	9.8	13.5	18.5	25.9	35.3	40.0	49.6	61.9	75.6
78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.4	4.7	6.7	9.6	13.3	18.2	25.4	35.3	40.4	50.3	63.0	77.5
79	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	6.5	9.5	13.1	17.9	25.0	35.2	40.6	51.0	64.1	79.4
80	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	4.6	6.4	9.3	12.9	17.7	24.6	34.9	40.6	51.6	65.2	81.1
81	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	6.3	9.1	12.7	17.5	24.2	34.4	40.5	52.2	66.2	82.7
82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.1	4.4	6.1	8.9	12.5	17.3	23.9	33.7	40.2	52.6	67.1	84.1
83	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	4.3	6.0	8.8	12.2	17.0	23.6	33.2	39.6	52.8	68.0	85.6
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	3.0	4.2	5.9	8.6	12.0	16.7	23.3	32.7	38.8	52.8	68.8	87.0
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.4	11.8	16.5	23.0	32.2	38.2	52.5	69.5	88.3
86	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	4.0	5.6	8.2	11.6	16.2	22.7	31.8	37.6	52.0	70.0	89.5
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.8	3.9	5.5	8.1	11.3	15.9	22.4	31.3	37.1	51.1	70.3	90.7
88	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	5.4	7.9	11.1	15.6	22.0	31.0	36.6	50.1	70.2	91.7
89	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	5.3	7.8	10.9	15.3	21.6	30.6	36.1	49.4	69.9	92.7
90	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	5.2	7.6	10.7	15.0	21.3	30.2	35.7	48.7	69.2	93.4
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.6	5.1	7.4	10.5	14.7	20.9	29.8	35.3	48.0	68.0	93.7
92	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.5	5.0	7.3	10.3	14.5	20.5	29.3	34.8	47.4	66.8	93.6
93	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	4.9	7.1	10.1	14.2	20.2	28.9	34.3	46.8	65.8	93.2
94	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	4.8	7.0	9.9	13.9	19.8	28.4	33.8	46.3	64.9	92.2
95	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	4.6	6.9	9.6	13.7	19.4	27.9	33.3	45.8	64.0	90.8
96	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	3.2	4.5	6.7	9.4	13.4	19.1	27.4	32.7	45.2	63.2	89.1
97	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	6.6	9.3	13.1	18.7	26.9	32.2	44.5	62.4	87.9
98	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	4.3	6.4	9.1	12.9	18.4	26.4	31.6	43.8	61.7	86.7
99	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	3.0	4.2	6.3	8.9	12.6	18.0	25.9	31.0	43.1	61.1	85.5
100	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	3.0	4.2	6.1	8.7	12.3	17.7	25.5	30.5	42.4	60.3	84.4

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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 10 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	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	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	0.8	1.0	1.1	1.4	1.7	2.0	2.5	3.5	4.9
4	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	2.6	3.6	5.0
5	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	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	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.8	3.8	5.2
7	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	1.2	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	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.3	1.5	1.8	2.2	2.4	3.0	4.0	5.5
9	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	1.0	1.2	1.3	1.5	1.8	2.3	2.5	3.2	4.2	5.7
10	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.8
11	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.5	2.8	3.4	4.4	6.0
12	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.9	3.5	4.6	6.2
13	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.3	2.7	3.0	3.7	4.8	6.3
14	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5
15	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	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	
16	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	7.0
17	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	1.6	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	0.5	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	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	6.0	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	3.8	4.2	5.0	6.2	8.0
21	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	2.3	2.6	3.0	3.4	4.0	4.4	5.2	6.4	8.2
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	0.2	0.3	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	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	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	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.4	3.7	4.1	4.6	5.1	5.7	6.4	7.3	7.8	9.0	10.7	13.0
34	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	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	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	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	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.8	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	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	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	3.8	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	8.6	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	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2	6.5	8.1	10.0	11.9	13.7	15.5	17.5	18.5	20.6	23.4	27.0

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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

TEMPERATURE, DEGREES FAHRENHEIT	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	0.1	0.2	0.3	0.5	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.4	6.0	8.3	11.6	14.6	18.1	22.2	26.8	29.0	33.1	37.8	42.8
61	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	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	0.1	0.2	0.2	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	0.1	0.2	0.2	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	0.1	0.2	0.2	0.3	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	0.1	0.2	0.2	0.3	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	0.1	0.2	0.2	0.3	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	0.1	0.2	0.2	0.3	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	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.8	5.3	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	0.1	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	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	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	0.1	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	0.1	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	0.1	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	0.1	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	38.7	48.2	60.2	73.7
75	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	6.4	9.2	12.8	17.5	24.3	34.0	39.1	48.8	61.2	75.6
76	0.1	0.1	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.1	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	0.2	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	0.2	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	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.6	5.0	7.4	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	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	4.9	7.2	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	0.2	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	0.2	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.4	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

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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 11 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.1	1.3	1.7	1.9	2.5	3.4	4.8
2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.8	1.0	1.2	1.4	1.8	2.0	2.6	3.5	4.9
3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	1.9	2.1	2.7	3.6	5.0
4	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	1.0	1.1	1.3	1.6	1.9	2.2	2.8	3.7	5.2
5	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
6	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	1.1	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.4
7	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.6
8	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
9	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9
10	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.2	1.4	1.5	1.8	2.1	2.5	2.8	3.5	4.5	6.1
11	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	1.4	1.6	1.9	2.2	2.7	3.0	3.6	4.7	6.3
12	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.9	6.5
13	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	1.3	1.4	1.6	1.8	2.1	2.5	2.9	3.2	4.0	5.0	6.7
14	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	2.2	2.6	3.1	3.4	4.1	5.2	6.9
15	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.6	4.3	5.4	7.1
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	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.7	4.5	5.7	7.3
17	0.2	0.3	0.4	0.5	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.6	3.9	4.7	5.9	7.6
18	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	1.9	2.2	2.4	2.8	3.2	3.8	4.1	4.9	6.1	7.9
19	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.4	3.9	4.3	5.1	6.4	8.1
20	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.1	3.5	4.1	4.5	5.4	6.6	8.4
21	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	2.0	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.8
22	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	2.4	2.7	3.0	3.4	3.9	4.6	5.0	5.9	7.2	9.1
23	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	3.6	4.1	4.8	5.2	6.2	7.5	9.4
24	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	3.0	3.4	3.8	4.4	5.1	5.5	6.4	7.8	9.8
25	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	3.2	3.6	4.1	4.6	5.3	5.8	6.8	8.2	10.2
26	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	3.4	3.8	4.3	4.9	5.6	6.1	7.1	8.5	10.6
27	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.1	5.9	6.4	7.4	8.9	11.0
28	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	3.4	3.8	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4
29	0.1	0.2	0.3	0.4	0.5	0.8	1.0	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	7.0	8.2	9.7	11.9
30	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.5	3.9	4.3	4.8	5.3	6.0	6.9	7.4	8.6	10.2	12.4
31	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	4.6	5.1	5.6	6.4	7.3	7.8	9.0	10.6	12.9
32	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	4.3	4.8	5.4	6.0	6.7	7.6	8.2	9.4	11.1	13.5
33	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.1	3.7	4.1	4.6	5.1	5.7	6.3	7.1	8.1	8.6	9.9	11.6	14.0
34	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.2	3.8	4.3	4.9	5.4	6.0	6.7	7.5	8.5	9.1	10.4	12.2	14.6
35	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.3	4.0	4.6	5.1	5.7	6.3	7.0	7.9	8.9	9.5	10.9	12.8	15.3
36	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.7	2.2	2.8	3.4	4.1	4.8	5.4	6.1	6.7	7.4	8.3	9.4	10.0	11.4	13.4	15.9
37	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	2.8	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.8	9.9	10.6	12.0	14.0	16.6
38	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	2.9	3.6	4.4	5.2	5.9	6.8	7.5	8.3	9.2	10.4	11.1	12.6	14.7	17.4
39	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.3	2.9	3.6	4.5	5.3	6.2	7.1	7.9	8.7	9.7	11.0	11.7	13.2	15.4	18.1
40	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.7	4.6	5.5	6.5	7.4	8.4	9.2	10.3	11.6	12.3	13.9	16.1	19.0
41	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	2.9	3.7	4.7	5.7	6.7	7.8	8.8	9.8	10.8	12.2	13.0	14.6	16.9	19.8
42	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	6.9	8.2	9.2	10.3	11.4	12.8	13.6	15.4	17.7	20.7
43	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.8	4.8	5.9	7.1	8.5	9.7	10.9	12.1	13.5	14.4	16.1	18.5	21.7
44	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.8	3.8	4.9	6.0	7.3	8.8	10.1	11.4	12.7	14.3	15.1	17.0	19.4	22.6
45	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.0	6.1	7.5	9.1	10.6	12.0	13.4	15.0	15.9	17.8	20.4	23.7
46	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.0	6.2	7.6	9.4	11.0	12.5	14.2	15.8	16.7	18.7	21.4	24.8
47	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.0	6.3	7.8	9.6	11.4	13.1	14.8	16.7	17.6	19.7	22.4	25.9
48	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	6.4	7.9	9.9	11.8	13.7	15.5	17.6	18.6	20.7	23.5	27.1
49	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.5	3.5	5.0	6.5	8.1	10.1	12.1	14.2	16.3	18.5	19.5	21.8	24.7	28.4
50	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	6.5	8.2	10.3	12.5	14.7	17.0	19.4	20.6	22.9	25.9	29.8

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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 11 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.4	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	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	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	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	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	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	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	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.8	7.9	11.2	14.3	17.8	21.9	26.6	29.0	33.3	38.1	43.2
59	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	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	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	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	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	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	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	50.2	58.7
66	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.6	5.0	6.9	9.8	13.5	18.7	24.7	31.4	35.1	42.8	51.8	61.1
67	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	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	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	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	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	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	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	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	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	37.7	49.0	62.3	78.0
76	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	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	5.6	8.1	11.3	15.7	21.8	30.7	36.5	49.3	63.9	80.7
78	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	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	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	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	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	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	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	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	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	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	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	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	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.1	6.1	8.6	12.3	17.5	25.1	30.0	41.6	58.3	82.1
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.0	6.0	8.5	12.0	17.1	24.7	29.5	40.9	57.6	81.0
92	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	5.9	8.3	11.7	16.8	24.2	29.0	40.3	57.0	79.9
93	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	5.7	8.2	11.5	16.5	23.8	28.5	39.6	56.3	78.8
94	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	2.7	3.8	5.6	8.0	11.3	16.2	23.3	27.9	38.9	55.5	77.9
95	0.1	0.1	0.2	0.2	0.3	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	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	10.9	15.5	22.5	26.9	37.6	53.8	76.2
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	1.9	2.6	3.6	5.2	7.4	10.6	15.2	22.1	26.4	36.9	52.9	75.2
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	1.9	2.6	3.5	5.1	7.3	10.4	14.9	21.6	25.9	36.2	52.0	74.2
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	1.9	2.6	3.5	5.0	7.1	10.2	14.6	21.2	25.5	35.6	51.1	73.1
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	1.9	2.5	3.5	4.9	7.0	9.9	14.3	20.7	25.0	34.9	50.3	72.0

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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 12 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	2.6	3.5	5.0
2	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	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	0.7	0.8	1.0	1.1	1.3	1.6	2.0	2.2	2.8	3.8	5.2
4	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	1.2	1.4	1.7	2.1	2.3	2.9	3.9	5.4
5	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	0.8	1.0	1.1	1.3	1.5	1.8	2.2	2.4	3.0	4.0	5.5
6	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	1.3	1.6	1.8	2.3	2.5	3.2	4.2	5.7
7	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.4	2.6	3.3	4.3	5.8
8	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.5	2.8	3.4	4.4	6.0
9	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.2	2.6	2.9	3.6	4.6	6.2
10	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.3	2.7	3.0	3.7	4.8	6.4
11	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
12	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.5	1.7	1.9	2.2	2.5	3.0	3.3	4.0	5.1	6.8
13	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.3	2.7	3.2	3.5	4.2	5.3	7.0
14	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
15	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.8	7.5
16	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.4	2.7	3.1	3.7	4.0	4.8	6.0	7.7
17	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.3	3.9	4.2	5.0	6.3	8.0
18	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.3	6.5	8.3
19	0.2	0.2	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.7	4.3	4.6	5.5	6.8	8.6
20	0.2	0.2	0.3	0.5	0.6	0.7	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9
21	0.2	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.4	9.3
22	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.8	4.3	5.0	5.4	6.3	7.7	9.6
23	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	3.5	4.0	4.5	5.2	5.7	6.6	8.0	10.0
24	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	3.7	4.2	4.8	5.5	6.0	7.0	8.4	10.4
25	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.3	2.6	2.9	3.2	3.6	4.0	4.4	5.0	5.8	6.3	7.3	8.8	10.8
26	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.2	4.7	5.3	6.1	6.6	7.7	9.2	11.3
27	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.3	1.6	1.9	2.3	2.6	2.9	3.2	3.6	4.0	4.4	5.0	5.6	6.4	6.9	8.0	9.6	11.7
28	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.7	3.1	3.4	3.8	4.2	4.7	5.2	5.9	6.8	7.3	8.4	10.0	12.2
29	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	4.0	4.5	5.0	5.5	6.3	7.2	7.7	8.8	10.5	12.7
30	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	3.9	4.3	4.8	5.3	5.9	6.6	7.5	8.1	9.3	11.0	13.3
31	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.6	4.1	4.5	5.0	5.6	6.2	7.0	7.9	8.5	9.7	11.5	13.9
32	0.1	0.2	0.2	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	6.6	7.4	8.4	9.0	10.2	12.0	14.5
33	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.7	2.2	2.7	3.3	3.9	4.5	5.0	5.7	6.2	6.9	7.8	8.8	9.4	10.8	12.6	15.1
34	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.7	3.3	4.0	4.7	5.3	6.0	6.6	7.3	8.2	9.3	9.9	11.3	13.2	15.8
35	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.2	4.9	5.6	6.3	7.0	7.7	8.7	9.8	10.4	11.9	13.8	16.5
36	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.8	3.5	4.3	5.1	5.9	6.7	7.4	8.2	9.1	10.3	11.0	12.5	14.5	17.2
37	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.8	3.5	4.4	5.3	6.1	7.0	7.8	8.7	9.6	10.9	11.6	13.1	15.2	18.0
38	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	2.9	3.6	4.5	5.4	6.4	7.4	8.3	9.1	10.2	11.5	12.2	13.8	15.9	18.8
39	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.6	4.6	5.6	6.6	7.7	8.7	9.7	10.7	12.1	12.8	14.5	16.7	19.6
40	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.8	3.7	4.7	5.7	6.8	8.1	9.1	10.2	11.3	12.7	13.5	15.2	17.5	20.5
41	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	5.8	7.0	8.4	9.6	10.8	12.0	13.4	14.2	16.0	18.4	21.5
42	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.7	4.8	5.9	7.2	8.7	10.0	11.3	12.6	14.2	15.0	16.8	19.3	22.5
43	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.8	6.0	7.4	9.0	10.5	11.8	13.3	14.9	15.8	17.7	20.3	23.5
44	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.9	6.1	7.5	9.2	10.9	12.4	14.0	15.7	16.6	18.6	21.3	24.6
45	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	4.9	6.2	7.6	9.5	11.3	13.0	14.7	16.6	17.5	19.6	22.3	25.8
46	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.9	6.3	7.8	9.7	11.6	13.6	15.4	17.5	18.5	20.6	23.4	27.0
47	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.4	4.8	6.3	7.9	9.9	12.0	14.1	16.2	18.4	19.5	21.7	24.6	28.3
48	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.4	3.3	4.7	6.3	8.0	10.1	12.3	14.6	16.9	19.3	20.5	22.8	25.8	29.6
49	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	6.3	8.1	10.3	12.6	15.0	17.6	20.2	21.5	24.0	27.1	31.0
50	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	6.3	8.2	10.4	12.8	15.5	18.3	21.1	22.5	25.2	28.5	32.5

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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 12 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	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	4.4	6.0	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	0.2	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	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.6	7.6	10.9	14.0	17.5	21.6	26.3	28.7	33.2	38.0	43.2
57	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	10.8	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	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.9	5.4	7.4	10.5	14.2	17.9	22.4	27.7	30.5	35.8	41.4	47.5
59	0.1	0.1	0.1	0.2	0.2	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	0.2	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	28.8	32.0	38.2	45.0	51.8
61	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	7.0	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	5.9	8.5	11.9	16.2	22.6	31.9	36.8	46.4	58.4	72.5
71	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.8	8.4	11.7	16.0	22.2	31.6	36.8	47.0	59.4	74.1
72	0.1	0.1	0.1	0.2	0.2	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	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.8	3.9	5.5	8.0	11.2	15.6	21.5	30.4	36.3	47.8	61.1	76.8
74	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.4	7.9	11.0	15.3	21.2	29.9	35.6	47.9	61.9	78.1
75	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.7	3.7	5.3	7.7	10.8	15.1	21.0	29.4	34.9	47.7	62.6	79.4
76	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.8	2.6	3.7	5.2	7.5	10.6	14.8	20.7	29.0	34.4	47.4	63.2	80.5
77	0.1	0.1	0.1	0.2	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.5	6.6	9.4	13.2	18.7	26.7	31.7	43.1	60.7	84.8
83	0.1	0.1	0.1	0.2	0.2	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	0.2	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.2	6.2	8.8	12.4	17.6	25.3	30.2	41.5	58.1	82.6
86	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	12.2	17.3	24.9	29.7	41.0	57.3	80.9
87	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	6.0	8.4	11.9	17.0	24.4	29.2	40.4	56.6	79.8
88	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	3.9	5.8	8.2	11.7	16.6	24.0	28.7	39.7	55.9	78.6
89	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	3.8	5.7	8.1	11.4	16.3	23.5	28.1	39.1	55.3	77.6
90	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	3.8	5.5	7.9	11.1	16.1	23.1	27.6	38.5	54.6	76.5
91	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	2.6	3.7	5.4	7.7	10.9	15.7	22.6	27.1	37.8	53.8	75.6
92	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	2.6	3.6	5.3	7.6	10.7	15.4	22.2	26.6	37.1	53.0	74.7
93	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.6	5.2	7.4	10.5	15.0	21.8	26.1	36.5	52.2	73.9
94	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	3.5	5.1	7.2	10.3	14.7	21.4	25.6	35.8	51.4	73.0
95	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	3.4	5.0	7.0	10.1	14.4	21.0	25.2	35.2	50.5	72.0
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	1.9	2.5	3.4	4.9	6.9	9.9	14.1	20.5	24.7	34.5	49.6	70.9
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	1.9	2.5	3.3	4.8	6.7	9.6	13.9	20.1	24.2	33.9	48.8	69.8
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	2.5	3.3	4.7	6.6	9.4	13.6	19.7	23.7	33.3	47.9	68.7
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	2.5	3.3	4.6	6.5	9.2	13.3	19.3	23.2	32.7	47.0	67.6
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	2.4	3.2	4.6	6.4	9.0	13.0	18.9	22.7	32.1	46.2	66.5

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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 13 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.2	2.8	3.8	5.3
3	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	1.1	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	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.4	3.1	4.1	5.5
5	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
6	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	1.4	1.7	2.0	2.4	2.7	3.3	4.3	5.9
7	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	1.3	1.5	1.8	2.1	2.5	2.8	3.5	4.5	6.0
8	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.9	2.2	2.6	2.9	3.6	4.7	6.2
9	0.2	0.3	0.3	0.4	0.5	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	3.1	3.8	4.8	6.4
10	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	1.3	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	1.5	1.7	1.9	2.2	2.6	3.1	3.4	4.1	5.2	6.8
12	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.3	5.4	7.1
13	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.7	4.5	5.6	7.3
14	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.6	3.0	3.6	3.9	4.7	5.9	7.6
15	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.2	2.4	2.8	3.2	3.7	4.1	4.9	6.1	7.8
16	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.4	3.9	4.3	5.1	6.4	8.1
17	0.2	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.1	3.5	4.2	4.5	5.4	6.6	8.4
18	0.2	0.2	0.3	0.5	0.6	0.7	0.9	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.7
19	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.1	3.5	3.9	4.6	5.0	5.9	7.2	9.1
20	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6	4.2	4.8	5.2	6.2	7.5	9.4
21	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.4	1.6	1.8	2.0	2.2	2.5	2.7	3.1	3.4	3.9	4.4	5.1	5.5	6.5	7.9	9.8
22	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.6	2.9	3.3	3.6	4.1	4.6	5.4	5.8	6.8	8.2	10.2
23	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.7	6.1	7.1	8.6	10.6
24	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	9.0	11.0
25	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.9	2.2	2.5	2.9	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.8	7.8	9.4	11.5
26	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.7	3.0	3.4	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	12.0
27	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	3.9	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.3	12.5
28	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.9	3.4	3.8	4.2	4.6	5.1	5.7	6.4	7.4	7.9	9.1	10.8	13.0
29	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.1	2.5	3.0	3.5	4.0	4.4	4.9	5.4	6.1	6.8	7.8	8.3	9.5	11.3	13.6
30	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.1	3.7	4.2	4.7	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.8	14.2
31	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.8	4.4	4.9	5.5	6.1	6.8	7.6	8.6	9.2	10.5	12.4	14.8
32	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	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	15.5
33	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.7	3.3	4.1	4.8	5.5	6.2	6.9	7.6	8.5	9.6	10.2	11.6	13.6	16.2
34	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.7	3.4	4.2	5.0	5.7	6.5	7.3	8.0	9.0	10.1	10.8	12.2	14.2	16.9
35	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	2.8	3.5	4.3	5.1	6.0	6.9	7.7	8.5	9.5	10.7	11.4	12.9	14.9	17.7
36	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.4	5.3	6.2	7.2	8.1	9.0	10.0	11.3	12.0	13.5	15.7	18.5
37	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.6	4.5	5.4	6.5	7.6	8.5	9.5	10.6	11.9	12.6	14.2	16.4	19.3
38	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.6	4.6	5.6	6.7	7.9	9.0	10.0	11.1	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	0.5	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	22.1
41	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	7.2	8.8	10.3	11.7	13.1	14.7	15.6	17.4	20.0	23.2
42	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.5	3.6	4.8	6.0	7.3	9.1	10.7	12.2	13.8	15.5	16.4	18.3	20.9	24.3
43	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.8	6.1	7.5	9.3	11.1	12.8	14.5	16.3	17.3	19.3	22.0	25.4
44	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.8	6.1	7.6	9.5	11.4	13.3	15.2	17.2	18.2	20.3	23.1	26.6
45	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.7	6.2	7.7	9.7	11.7	13.8	15.9	18.1	19.2	21.4	24.3	27.9
46	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.2	7.8	9.9	12.0	14.3	16.7	19.0	20.2	22.5	25.5	29.3
47	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	6.2	7.9	10.1	12.3	14.8	17.4	19.9	21.2	23.7	26.8	30.7
48	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.1	4.4	6.1	8.0	10.2	12.6	15.2	18.0	20.8	22.2	24.9	28.1	32.2
49	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.0	10.4	12.8	15.6	18.6	21.8	23.3	26.2	29.6	33.7
50	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.0	4.2	5.8	8.0	10.5	13.0	15.9	19.2	22.7	24.3	27.5	31.1	35.4

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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 13 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.2	5.7	7.9	10.6	13.2	16.2	19.8	23.6	25.4	28.8	32.7	37.1
52	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.6	7.7	10.7	13.4	16.6	20.3	24.4	26.4	30.1	34.3	38.9
53	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.6	10.6	13.6	16.9	20.8	25.2	27.4	31.4	36.0	40.8
54	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.4	10.6	13.7	17.1	21.2	25.9	28.3	32.8	37.6	42.8
55	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	5.3	7.3	10.4	13.8	17.4	21.6	26.6	29.2	34.1	39.3	45.0
56	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.6	3.8	5.2	7.1	10.2	13.8	17.6	22.0	27.2	30.0	35.3	41.0	47.2
57	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	7.0	10.0	13.8	17.8	22.3	27.8	30.8	36.5	42.8	49.2
58	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	5.0	6.9	9.8	13.6	17.9	22.6	28.3	31.5	37.6	44.6	51.4
59	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	6.8	9.6	13.3	17.9	22.9	28.8	32.1	38.7	46.2	53.6
60	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	6.7	9.5	13.0	17.9	23.2	29.3	32.7	39.7	47.7	55.8
61	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.4	4.7	6.6	9.3	12.8	17.7	23.4	29.8	33.3	40.6	49.2	58.2
62	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	9.2	12.6	17.4	23.5	30.2	33.8	41.4	50.6	60.4
63	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	9.1	12.4	17.0	23.5	30.6	34.3	42.2	52.0	62.4
64	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	4.4	6.2	8.9	12.2	16.7	23.4	30.9	34.8	43.0	53.2	64.4
65	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.1	4.3	6.1	8.7	12.0	16.5	23.1	31.1	35.2	43.7	54.4	66.3
66	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	8.6	11.8	16.2	22.7	31.2	35.6	44.3	55.4	68.1
67	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	11.6	15.9	22.2	31.2	35.8	44.9	56.4	69.8
68	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	5.7	8.2	11.4	15.7	21.8	30.9	35.9	45.5	57.4	71.4
69	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	4.0	5.5	8.1	11.2	15.5	21.5	30.5	35.8	46.0	58.3	72.9
70	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.9	2.7	3.9	5.4	7.9	11.0	15.3	21.1	29.9	35.5	46.4	59.1	74.2
71	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.3	1.8	2.7	3.8	5.3	7.7	10.8	15.0	20.8	29.3	35.0	46.6	59.9	75.5
72	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	3.7	5.2	7.6	10.6	14.8	20.5	28.9	34.2	46.6	60.7	76.8
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.7	2.6	3.6	5.1	7.4	10.4	14.5	20.3	28.4	33.7	46.3	61.3	77.9
74	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	5.0	7.3	10.2	14.2	20.0	28.0	33.1	45.8	61.8	79.0
75	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	4.8	7.1	10.0	14.0	19.7	27.6	32.6	45.0	61.9	80.0
76	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.8	1.1	1.6	2.4	3.4	4.7	7.0	9.8	13.7	19.3	27.2	32.2	44.1	61.9	81.0
77	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	4.6	6.8	9.6	13.4	19.0	26.9	31.7	43.4	61.5	81.8
78	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	4.5	6.7	9.4	13.2	18.7	26.5	31.3	42.8	60.8	82.3
79	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	4.4	6.5	9.2	12.9	18.3	26.1	30.9	42.1	59.6	82.5
80	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	6.3	9.0	12.6	18.0	25.7	30.5	41.6	58.6	82.4
81	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	4.2	6.2	8.8	12.4	17.6	25.2	30.0	41.0	57.7	81.8
82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.5	2.1	2.9	4.1	6.1	8.6	12.2	17.3	24.8	29.5	40.5	56.8	80.8
83	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	4.0	6.0	8.4	11.9	16.9	24.4	29.0	40.1	56.0	79.3
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	2.0	2.8	3.9	5.8	8.2	11.7	16.6	23.9	28.5	39.5	55.3	78.0
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	2.0	2.7	3.8	5.7	8.1	11.4	16.3	23.5	28.0	38.9	54.6	76.9
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.7	3.8	5.6	7.9	11.2	16.0	23.0	27.5	38.2	54.0	75.8
87	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	3.7	5.4	7.8	10.9	15.7	22.6	27.0	37.6	53.4	74.8
88	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	3.6	5.3	7.6	10.7	15.4	22.1	26.5	37.0	52.6	73.8
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.5	5.2	7.4	10.5	15.0	21.7	26.0	36.3	51.8	72.9
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.5	5.1	7.2	10.3	14.7	21.3	25.5	35.7	51.0	72.1
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.4	5.0	7.1	10.1	14.4	20.9	25.0	35.0	50.2	71.3
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	1.8	2.4	3.4	4.9	6.9	9.9	14.1	20.5	24.6	34.4	49.3	70.3
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	1.8	2.4	3.3	4.8	6.7	9.6	13.8	20.1	24.2	33.7	48.5	69.3
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	1.8	2.4	3.3	4.7	6.6	9.4	13.6	19.6	23.7	33.1	47.6	68.2
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	1.8	2.4	3.2	4.6	6.5	9.2	13.3	19.2	23.2	32.5	46.8	67.1
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	1.8	2.4	3.2	4.5	6.3	9.0	13.0	18.8	22.7	31.9	45.9	66.0
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	2.4	3.1	4.5	6.2	8.8	12.7	18.5	22.2	31.4	45.1	64.9
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	2.4	3.1	4.4	6.1	8.6	12.4	18.2	21.7	30.7	44.3	63.8
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	2.3	3.1	4.3	6.0	8.4	12.1	17.8	21.3	30.1	43.5	62.7
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	3.1	4.3	5.9	8.3	11.9	17.4	21.0	29.4	42.7	61.6

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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 14 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.1	1.2	1.4	1.7	2.1	2.4	3.0	3.9	5.4
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	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.6
4	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.2	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	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9
6	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	1.5	1.8	2.1	2.5	2.8	3.5	4.5	6.1
7	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	1.4	1.6	1.9	2.2	2.7	3.0	3.6	4.7	6.3
8	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.9	6.5
9	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.5	3.0	3.3	4.0	5.1	6.7
10	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.2	2.6	3.1	3.4	4.1	5.3	6.9
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	1.6	1.8	2.1	2.4	2.7	3.3	3.6	4.3	5.5	7.1
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	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.8	4.5	5.7	7.4
13	0.2	0.3	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.1	2.3	2.6	3.1	3.6	4.0	4.7	5.9	7.6
14	0.2	0.3	0.3	0.4	0.5	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	7.9
15	0.2	0.2	0.3	0.4	0.6	0.7	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.4	4.0	4.4	5.2	6.4	8.2
16	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.5
17	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	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
18	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.2
19	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.4	2.6	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	9.6
20	0.2	0.2	0.3	0.4	0.6	0.8	0.9	1.1	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.1	3.5	3.9	4.5	5.2	5.6	6.6	8.0	9.9
21	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	2.0	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.7	5.5	5.9	6.9	8.3	10.3
22	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.8	2.1	2.3	2.6	2.9	3.2	3.5	3.9	4.4	5.0	5.8	6.2	7.2	8.7	10.8
23	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	4.7	5.3	6.1	6.6	7.6	9.1	11.2
24	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	4.4	4.9	5.6	6.4	6.9	8.0	9.5	11.7
25	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	3.4	3.8	4.2	4.7	5.2	5.9	6.8	7.3	8.4	10.0	12.2
26	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.6	4.0	4.5	5.0	5.5	6.2	7.1	7.7	8.8	10.5	12.7
27	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	4.8	5.3	5.9	6.6	7.5	8.1	9.3	11.0	13.3
28	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	4.1	4.5	5.1	5.6	6.2	7.0	7.9	8.5	9.7	11.5	13.8
29	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.1	3.7	4.3	4.8	5.4	5.9	6.6	7.4	8.4	9.0	10.2	12.0	14.5
30	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.6	3.2	3.9	4.5	5.0	5.7	6.3	7.0	7.8	8.8	9.4	10.8	12.6	15.1
31	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.3	4.0	4.7	5.3	6.0	6.7	7.4	8.2	9.3	10.0	11.3	13.2	15.8
32	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.3	4.1	4.9	5.6	6.4	7.2	7.8	8.7	9.8	10.5	11.9	13.9	16.5
33	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.2	5.0	5.8	6.7	7.5	8.3	9.2	10.4	11.1	12.5	14.6	17.3
34	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.3	5.2	6.1	7.0	7.9	8.7	9.7	11.0	11.7	13.2	15.3	18.0
35	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.4	2.0	2.7	3.5	4.4	5.3	6.3	7.4	8.3	9.2	10.3	11.6	12.3	13.9	16.1	18.9
36	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.5	4.5	5.4	6.5	7.7	8.7	9.8	10.9	12.2	13.0	14.6	16.8	19.8
37	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.5	5.6	6.7	8.0	9.2	10.3	11.5	12.9	13.7	15.4	17.7	20.7
38	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.6	5.7	6.9	8.3	9.6	10.8	12.1	13.6	14.4	16.2	18.6	21.7
39	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.5	3.5	4.6	5.8	7.0	8.6	10.0	11.4	12.8	14.3	15.2	17.0	19.5	22.7
40	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.7	5.8	7.2	8.9	10.4	11.9	13.5	15.1	16.0	17.9	20.5	23.8
41	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.7	5.9	7.3	9.1	10.8	12.5	14.2	16.0	16.9	18.9	21.5	24.9
42	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.7	6.0	7.5	9.3	11.2	13.0	14.9	16.9	17.8	19.9	22.6	26.1
43	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.6	6.0	7.6	9.5	11.5	13.5	15.6	17.7	18.8	20.9	23.8	27.4
44	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	6.1	7.7	9.7	11.8	14.0	16.3	18.6	19.8	22.0	25.0	28.7
45	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.1	4.4	6.0	7.8	9.9	12.1	14.5	17.0	19.5	20.8	23.2	26.3	30.1
46	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	6.0	7.8	10.0	12.3	14.9	17.7	20.4	21.8	24.5	27.6	31.6
47	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.8	7.8	10.2	12.5	15.3	18.3	21.4	22.8	25.8	29.0	33.1
48	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	7.8	10.3	12.8	15.6	18.8	22.3	23.9	27.0	30.5	34.8
49	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.6	7.7	10.4	13.0	15.9	19.4	23.1	25.0	28.2	32.1	36.5
50	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.6	10.4	13.1	16.2	19.9	23.9	26.0	29.5	33.8	38.3

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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 14 PERCENT RELATIVE HUMIDITY

TEMPERATURE, °F	BAND CENTER FREQUENCY, HZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.4	10.4	13.3	16.5	20.3	24.7	26.9	30.9	35.4	40.2
52	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.8	5.3	7.2	10.3	13.4	16.8	20.7	25.4	27.8	32.2	37.0	42.2
53	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.8	5.2	7.1	10.2	13.5	17.0	21.1	26.1	28.6	33.5	38.6	44.3
54	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	7.0	9.9	13.5	17.2	21.5	26.7	29.4	34.7	40.3	46.4
55	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	5.0	6.8	9.7	13.4	17.4	21.9	27.3	30.2	35.9	42.1	48.5
56	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	6.7	9.5	13.2	17.5	22.2	27.8	30.9	37.0	43.8	50.6
57	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.6	9.4	13.0	17.5	22.5	28.3	31.5	38.0	45.4	52.8
58	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.4	4.7	6.5	9.2	12.7	17.5	22.7	28.7	32.1	39.0	46.9	55.0
59	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	9.1	12.5	17.3	22.9	29.2	32.6	39.8	48.4	57.4
60	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.5	0.8	1.1	1.6	2.2	3.2	4.5	6.3	8.9	12.2	17.0	23.0	29.6	33.2	40.6	49.8	59.5
61	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	8.8	12.0	16.6	23.0	29.9	33.6	41.4	51.1	61.5
62	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.1	4.3	6.0	8.6	11.8	16.3	22.8	30.2	34.1	42.1	52.3	63.4
63	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	5.9	8.5	11.7	16.0	22.5	30.4	34.5	42.8	53.4	65.2
64	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	8.3	11.5	15.7	22.0	30.5	34.8	43.4	54.4	67.0
65	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.6	8.2	11.3	15.5	21.6	30.4	35.0	44.0	55.4	68.6
66	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	11.1	15.3	21.2	30.1	35.0	44.6	56.3	70.2
67	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	10.9	15.0	20.8	29.6	34.9	45.0	57.2	71.6
68	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.3	7.7	10.7	14.8	20.5	28.9	34.5	45.4	58.0	72.8
69	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	5.2	7.5	10.5	14.6	20.2	28.5	33.9	45.5	58.7	74.1
70	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	3.6	5.0	7.3	10.3	14.3	19.9	28.0	33.2	45.4	59.4	75.3
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	7.2	10.1	14.1	19.7	27.6	32.7	45.0	60.0	76.4
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.4	4.8	7.0	9.9	13.8	19.4	27.2	32.2	44.4	60.4	77.5
73	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	6.9	9.7	13.5	19.1	26.8	31.7	43.5	60.4	78.5
74	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	9.5	13.3	18.7	26.4	31.2	42.8	60.3	79.3
75	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	9.3	13.0	18.4	26.1	30.8	42.1	59.7	80.1
76	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	9.1	12.7	18.1	25.7	30.4	41.5	58.9	80.4
77	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	4.3	6.3	8.9	12.5	17.7	25.3	30.0	40.9	57.6	80.5
78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.0	1.4	2.1	2.9	4.2	6.1	8.7	12.2	17.4	24.9	29.6	40.3	56.7	80.2
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.0	1.4	2.0	2.9	4.1	6.0	8.5	12.0	17.0	24.4	29.1	39.8	55.9	79.4
80	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	4.0	5.9	8.3	11.7	16.7	24.0	28.6	39.3	55.1	78.2
81	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	3.9	5.8	8.1	11.5	16.4	23.5	28.1	38.8	54.3	76.7
82	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	3.8	5.6	7.9	11.3	16.0	23.1	27.6	38.2	53.6	75.5
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.9	2.6	3.7	5.5	7.8	11.0	15.7	22.7	27.1	37.6	52.9	74.5
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.9	2.6	3.6	5.4	7.6	10.8	15.4	22.2	26.6	37.0	52.4	73.4
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.5	3.6	5.2	7.5	10.5	15.2	21.8	26.1	36.3	51.7	72.4
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.5	3.5	5.1	7.3	10.3	14.8	21.4	25.6	35.7	50.9	71.5
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.8	2.5	3.4	5.0	7.1	10.1	14.5	21.0	25.1	35.1	50.1	70.7
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	1.8	2.4	3.4	4.9	7.0	9.9	14.2	20.6	24.6	34.4	49.3	69.9
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	1.8	2.4	3.3	4.8	6.8	9.7	13.9	20.2	24.2	33.8	48.5	69.0
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	1.8	2.4	3.2	4.7	6.6	9.5	13.6	19.8	23.7	33.2	47.7	68.0
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	1.8	2.3	3.2	4.6	6.5	9.3	13.3	19.3	23.3	32.6	46.8	67.0
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	1.8	2.3	3.2	4.5	6.4	9.1	13.1	18.9	22.8	32.0	46.0	65.9
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	2.3	3.1	4.4	6.2	8.8	12.8	18.5	22.3	31.4	45.2	64.9
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	2.3	3.1	4.4	6.1	8.6	12.5	18.2	21.8	30.8	44.3	63.8
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	2.3	3.0	4.3	6.0	8.5	12.2	17.8	21.4	30.3	43.5	62.7
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	2.3	3.0	4.3	5.9	8.3	12.0	17.5	21.0	29.6	42.8	61.6
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	1.7	2.3	3.0	4.2	5.8	8.1	11.7	17.2	20.6	29.0	42.0	60.5
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	2.3	3.0	4.1	5.7	8.0	11.4	16.8	20.2	28.4	41.3	59.4
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	2.3	3.0	4.1	5.6	7.8	11.2	16.4	19.8	27.8	40.5	58.4
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	3.0	4.1	5.6	7.7	11.0	16.0	19.4	27.3	39.7	57.4

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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 15 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.7	2.1	2.4	3.0	4.0	5.4
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	1.5	1.8	2.2	2.5	3.1	4.1	5.6
3	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
4	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9
5	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.8	3.5	4.5	6.1
6	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.7	6.3
7	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5
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	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7
9	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	6.9
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	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
11	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.7	7.4
12	0.2	0.3	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.1	2.4	2.7	3.1	3.7	4.0	4.8	6.0	7.7
13	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.3	3.8	4.2	5.0	6.2	8.0
14	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.2	6.5	8.3
15	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.3	4.6	5.5	6.8	8.6
16	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9
17	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.4	9.3
18	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6
19	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.3	2.6	2.8	3.2	3.6	4.0	4.6	5.3	5.7	6.7	8.1	10.0
20	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.7	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.2	4.8	5.6	6.0	7.0	8.4	10.4
21	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.1	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.1	5.9	6.3	7.3	8.8	10.9
22	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.4	6.2	6.7	7.7	9.2	11.3
23	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	3.0	3.3	3.6	4.1	4.5	5.0	5.7	6.5	7.0	8.1	9.7	11.8
24	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.5	3.9	4.3	4.8	5.3	6.0	6.9	7.4	8.5	10.1	12.3
25	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.7	4.1	4.6	5.1	5.6	6.4	7.3	7.8	9.0	10.6	12.9
26	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.4	2.9	3.5	3.9	4.4	4.9	5.4	6.0	6.7	7.7	8.2	9.4	11.1	13.4
27	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.0	3.6	4.1	4.6	5.2	5.7	6.3	7.1	8.1	8.7	9.9	11.7	14.0
28	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.5	3.1	3.7	4.3	4.9	5.5	6.0	6.7	7.5	8.5	9.1	10.4	12.2	14.7
29	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.6	3.2	3.9	4.5	5.1	5.8	6.4	7.1	8.0	9.0	9.6	11.0	12.8	15.3
30	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.3	4.0	4.7	5.4	6.1	6.8	7.5	8.4	9.5	10.1	11.5	13.5	16.0
31	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.3	4.1	4.9	5.7	6.5	7.2	8.0	8.9	10.0	10.7	12.1	14.1	16.8
32	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.4	4.2	5.0	5.9	6.8	7.6	8.4	9.4	10.6	11.3	12.8	14.8	17.5
33	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.4	4.3	5.2	6.1	7.2	8.0	8.9	9.9	11.2	11.9	13.5	15.6	18.4
34	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.5	4.4	5.3	6.3	7.5	8.5	9.5	10.5	11.8	12.6	14.2	16.4	19.2
35	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.4	5.4	6.5	7.8	8.9	10.0	11.1	12.5	13.2	14.9	17.2	20.1
36	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.5	4.5	5.5	6.7	8.1	9.3	10.5	11.8	13.2	14.0	15.7	18.0	21.1
37	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.5	4.5	5.6	6.9	8.4	9.8	11.0	12.4	13.9	14.7	16.5	19.0	22.1
38	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.4	4.6	5.7	7.0	8.6	10.2	11.6	13.1	14.7	15.6	17.4	19.9	23.1
39	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.8	2.4	3.4	4.6	5.8	7.2	8.9	10.5	12.2	13.8	15.5	16.4	18.4	20.9	24.3
40	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.6	5.9	7.3	9.1	10.9	12.7	14.5	16.4	17.3	19.3	22.0	25.4
41	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	5.9	7.4	9.3	11.2	13.2	15.2	17.3	18.3	20.4	23.1	26.7
42	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.1	4.4	5.9	7.5	9.5	11.5	13.7	15.9	18.1	19.3	21.5	24.3	28.0
43	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.9	7.6	9.6	11.8	14.1	16.6	19.0	20.3	22.6	25.6	29.4
44	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.9	7.7	9.8	12.0	14.5	17.2	19.9	21.2	23.8	26.9	30.8
45	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.9	12.3	14.9	17.8	20.8	22.2	25.1	28.3	32.3
46	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	2.9	4.1	5.6	7.7	10.1	12.5	15.3	18.4	21.8	23.3	26.3	29.8	33.9
47	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.5	7.6	10.2	12.7	15.6	18.9	22.6	24.4	27.6	31.3	35.6
48	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.4	10.2	12.9	15.9	19.4	23.4	25.4	28.8	33.0	37.4
49	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.3	7.2	10.2	13.0	16.2	19.9	24.1	26.3	30.2	34.6	39.3
50	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.2	7.1	10.1	13.2	16.4	20.3	24.8	27.2	31.5	36.2	41.2

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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 15 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.2	0.2	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	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	5.0	6.8	9.7	13.2	16.8	21.1	26.1	28.8	34.0	39.5	45.5
53	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	6.7	9.5	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	7.1	10.0	14.0	19.5	27.3	32.4	44.3	58.2	73.8
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.4	4.8	7.0	9.8	13.7	19.2	26.9	31.8	44.0	58.8	74.9
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.8	9.6	13.4	18.9	26.5	31.3	43.3	59.0	75.9
71	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	0.2	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	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.0	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0	4.2	5.8	8.2	11.9	17.3	20.7	29.3	42.2	60.9
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	2.2	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	4.0	5.5	7.6	10.8	15.9	19.2	26.9	39.3	56.6
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	2.9	4.0	5.4	7.5	10.6	15.5	18.8	26.5	38.5	55.6
99	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	4.0	5.3	7.4	10.4	15.1	18.3	26.0	37.6	54.7
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	2.9	4.0	5.3	7.3	10.2	14.8	17.9	25.5	36.9	53.8

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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 16 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.2	2.5	3.1	4.1	5.6
2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
3	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9
4	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.9	3.5	4.6	6.1
5	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.7	6.3
6	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5
7	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7
8	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.3	2.6	3.1	3.5	4.2	5.3	6.9
9	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
10	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.8	7.4
11	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.1	3.7	4.0	4.8	6.0	7.7
12	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.9	3.3	3.9	4.2	5.0	6.2	8.0
13	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.3	6.5	8.3
14	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.2	3.7	4.3	4.7	5.5	6.8	8.6
15	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	9.0
16	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3
17	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.5	6.4	7.8	9.7
18	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.7	8.1	10.1
19	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.4	3.8	4.3	4.9	5.6	6.1	7.1	8.5	10.5
20	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.7	3.0	3.3	3.6	4.1	4.5	5.1	5.9	6.4	7.4	8.9	11.0
21	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4
22	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9
23	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.2	3.5	3.9	4.4	4.8	5.4	6.1	7.0	7.5	8.6	10.2	12.4
24	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.8	3.3	3.7	4.2	4.6	5.1	5.7	6.4	7.3	7.9	9.1	10.7	13.0
25	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.4	2.9	3.5	3.9	4.4	4.9	5.5	6.1	6.8	7.8	8.3	9.5	11.2	13.6
26	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.0	3.6	4.2	4.7	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.8	14.2
27	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.8	4.4	4.9	5.6	6.1	6.8	7.6	8.7	9.2	10.6	12.4	14.8
28	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.2	3.9	4.6	5.2	5.9	6.5	7.2	8.1	9.1	9.8	11.1	13.0	15.5
29	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.6	3.2	4.0	4.7	5.5	6.2	6.9	7.6	8.5	9.7	10.3	11.7	13.6	16.2
30	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	5.7	6.5	7.3	8.1	9.0	10.2	10.9	12.3	14.3	17.0
31	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.3	4.2	5.0	5.9	6.9	7.7	8.6	9.6	10.8	11.5	13.0	15.0	17.8
32	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.2	6.2	7.2	8.1	9.1	10.1	11.4	12.1	13.7	15.8	18.6
33	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.3	5.3	6.4	7.6	8.6	9.6	10.7	12.0	12.8	14.4	16.6	19.5
34	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.4	4.4	5.4	6.5	7.9	9.0	10.1	11.3	12.7	13.5	15.2	17.4	20.4
35	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.4	5.5	6.7	8.1	9.3	10.7	12.0	13.4	14.2	16.0	18.3	21.4
36	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.5	5.6	6.9	8.4	9.9	11.2	12.7	14.2	15.0	16.8	19.3	22.4
37	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.5	5.7	7.0	8.7	10.2	11.8	13.3	15.0	15.8	17.7	20.3	23.5
38	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.5	5.7	7.1	8.9	10.6	12.3	14.0	15.8	16.7	18.7	21.3	24.7
39	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	5.8	7.2	9.1	10.9	12.8	14.7	16.7	17.7	19.7	22.4	25.9
40	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.4	5.8	7.3	9.2	11.2	13.3	15.4	17.5	18.6	20.8	23.6	27.1
41	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.3	5.8	7.4	9.4	11.5	13.7	16.1	18.4	19.6	21.9	24.8	28.5
42	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.2	5.8	7.5	9.6	11.7	14.2	16.7	19.3	20.6	23.1	26.1	29.9
43	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.1	5.7	7.5	9.7	12.0	14.5	17.4	20.2	21.6	24.3	27.4	31.4
44	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.0	2.9	4.0	5.5	7.5	9.8	12.2	14.9	17.9	21.1	22.6	25.6	28.9	32.9
45	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.5	10.0	12.4	15.2	18.5	22.0	23.7	26.8	30.4	34.6
46	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.9	5.3	7.3	10.0	12.6	15.5	19.0	22.8	24.7	28.0	32.0	36.3
47	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.7	3.8	5.2	7.1	10.0	12.7	15.8	19.4	23.5	25.6	29.3	33.6	38.2
48	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.1	7.0	10.0	12.9	16.0	19.8	24.2	26.5	30.7	35.2	40.1
49	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.8	9.8	13.0	16.3	20.2	24.9	27.3	31.9	36.8	42.1
50	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	4.9	6.7	9.6	13.0	16.5	20.6	25.5	28.1	33.1	38.4	44.3

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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 16 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.2	1.7	2.4	3.5	4.8	6.6	9.4	12.9	16.7	20.9	26.1	28.9	34.3	40.2	46.3
52	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	6.5	9.2	12.8	16.8	21.2	26.6	29.6	35.3	41.9	48.3
53	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	6.4	9.0	12.5	16.8	21.5	27.1	30.2	36.3	43.4	50.4
54	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	8.9	12.2	16.8	21.8	27.5	30.7	37.3	44.9	52.6
55	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.2	4.4	6.1	8.7	12.0	16.6	22.0	28.0	31.3	38.2	46.3	54.9
56	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	6.0	8.6	11.7	16.3	22.1	28.3	31.8	39.0	47.7	57.0
57	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	22.0	28.7	32.2	39.7	49.0	58.9
58	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	8.3	11.3	15.6	21.9	29.0	32.7	40.4	50.1	60.8
59	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	5.6	8.1	11.2	15.3	21.5	29.2	33.1	41.1	51.2	62.6
60	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.4	1.9	2.8	3.9	5.5	8.0	11.0	15.1	21.0	29.2	33.4	41.7	52.2	64.3
61	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	5.4	7.8	10.8	14.8	20.6	29.1	33.6	42.2	53.1	65.9
62	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	3.8	5.3	7.6	10.6	14.6	20.3	28.8	33.6	42.7	54.0	67.4
63	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	7.5	10.4	14.4	19.9	28.3	33.4	43.2	54.9	68.7
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.6	5.0	7.3	10.2	14.2	19.6	27.7	33.0	43.5	55.6	69.9
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.9	7.2	10.0	13.9	19.3	27.2	32.4	43.5	56.3	71.2
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.4	4.8	7.0	9.8	13.7	19.0	26.7	31.7	43.4	57.0	72.3
67	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.7	6.8	9.6	13.4	18.8	26.3	31.2	43.0	57.6	73.4
68	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	18.5	25.9	30.7	42.4	57.8	74.4
69	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	25.5	30.2	41.4	57.8	75.3
70	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	17.8	25.2	29.7	40.8	57.6	76.1
71	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	6.3	8.8	12.4	17.5	24.9	29.3	40.1	57.0	76.7
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.4	2.1	2.9	4.2	6.1	8.6	12.1	17.2	24.5	29.0	39.5	56.0	77.0
73	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	4.1	6.0	8.5	11.9	16.8	24.1	28.6	38.9	54.9	76.9
74	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	4.0	5.8	8.3	11.6	16.5	23.6	28.1	38.4	54.0	76.5
75	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	3.9	5.7	8.1	11.4	16.2	23.2	27.6	37.9	53.2	75.7
76	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.3	1.9	2.7	3.8	5.6	7.9	11.2	15.8	22.8	27.2	37.5	52.4	74.3
77	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	3.7	5.5	7.7	10.9	15.5	22.3	26.7	36.9	51.7	72.9
78	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	2.5	3.6	5.3	7.5	10.7	15.2	21.9	26.2	36.3	51.0	71.8
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	1.0	1.3	1.8	2.5	3.5	5.2	7.4	10.4	14.9	21.5	25.7	35.7	50.4	70.8
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.8	2.4	3.4	5.1	7.2	10.2	14.6	21.1	25.2	35.1	49.8	69.8
81	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.4	3.4	4.9	7.1	10.0	14.3	20.6	24.7	34.5	49.1	68.8
82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.4	3.3	4.8	6.9	9.8	14.0	20.2	24.2	33.8	48.3	68.0
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.3	3.2	4.7	6.7	9.6	13.7	19.9	23.8	33.2	47.5	67.2
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2	4.6	6.6	9.4	13.4	19.5	23.3	32.6	46.7	66.4
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.1	4.5	6.4	9.2	13.1	19.1	22.9	32.0	45.9	65.5
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.1	4.4	6.3	9.0	12.9	18.7	22.5	31.4	45.1	64.5
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.0	4.3	6.1	8.7	12.6	18.3	22.0	30.8	44.3	63.5
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	3.0	4.3	6.0	8.5	12.4	17.9	21.5	30.2	43.5	62.5
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	1.7	2.2	2.9	4.2	5.9	8.3	12.1	17.5	21.1	29.7	42.7	61.4
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	1.7	2.2	2.9	4.1	5.8	8.1	11.8	17.2	20.6	29.2	41.9	60.4
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	1.7	2.2	2.9	4.1	5.7	8.0	11.5	16.9	20.2	28.6	41.2	59.3
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	2.2	2.9	4.0	5.6	7.8	11.3	16.5	19.8	27.9	40.4	58.3
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	2.2	2.9	4.0	5.5	7.7	11.0	16.2	19.5	27.3	39.7	57.2
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	2.2	2.9	3.9	5.4	7.5	10.8	15.8	19.1	26.8	39.0	56.2
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	2.9	3.9	5.3	7.4	10.6	15.5	18.7	26.2	38.3	55.2
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	2.8	3.9	5.3	7.3	10.3	15.1	18.3	25.8	37.4	54.2
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	3.9	5.2	7.2	10.1	14.7	17.9	25.3	36.6	53.3
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	3.9	5.1	7.1	10.0	14.4	17.4	24.8	35.9	52.4
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	3.8	5.1	7.0	9.8	14.2	17.0	24.3	35.2	51.4
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	3.8	5.1	6.9	9.6	13.9	16.7	23.8	34.6	50.3

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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 17 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.4	1.6	1.9	2.3	2.6	3.2	4.2	5.7
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	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9
3	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.8	3.5	4.5	6.1
4	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.7	6.3
5	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5
6	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7
7	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.3	2.6	3.1	3.5	4.2	5.3	6.9
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	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
9	0.2	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	1.8	2.0	2.2	2.6	3.0	3.5	3.8	4.6	5.8	7.4
10	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
11	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	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	6.3	8.0
12	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.5	5.3	6.5	8.3
13	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.2	3.7	4.3	4.7	5.5	6.8	8.6
14	0.2	0.2	0.3	0.4	0.5	0.7	0.9	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	9.0
15	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	2.6	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3
16	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	2.5	2.7	3.1	3.4	3.8	4.4	5.1	5.5	6.4	7.8	9.7
17	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.1	4.6	5.3	5.8	6.7	8.2	10.1
18	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.5	3.8	4.3	4.9	5.6	6.1	7.1	8.5	10.5
19	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.4	8.9	11.0
20	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.5	2.8	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.8	7.8	9.4	11.5
21	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.7	4.1	4.6	5.1	5.8	6.6	7.1	8.2	9.8	12.0
22	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	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
23	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.5	1.9	2.4	2.8	3.3	3.8	4.2	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.8	13.1
24	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.5	2.0	2.4	2.9	3.5	4.0	4.5	5.0	5.5	6.1	6.9	7.8	8.4	9.6	11.3	13.6
25	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.0	3.6	4.2	4.7	5.3	5.8	6.5	7.3	8.3	8.8	10.1	11.9	14.3
26	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	4.4	5.0	5.6	6.2	6.9	7.7	8.7	9.3	10.6	12.5	14.9
27	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.1	3.9	4.6	5.2	5.9	6.6	7.3	8.1	9.2	9.8	11.2	13.1	15.6
28	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.4	2.0	2.6	3.2	4.0	4.7	5.5	6.3	7.0	7.7	8.6	9.7	10.4	11.8	13.7	16.3
29	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	5.7	6.6	7.4	8.2	9.1	10.3	11.0	12.4	14.4	17.1
30	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	5.9	6.9	7.8	8.7	9.7	10.9	11.6	13.1	15.2	17.9
31	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.4	4.2	5.1	6.2	7.3	8.2	9.2	10.2	11.5	12.2	13.8	15.9	18.8
32	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.6	3.4	4.3	5.3	6.3	7.6	8.6	9.7	10.8	12.2	12.9	14.5	16.8	19.7
33	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	5.4	6.5	7.9	9.0	10.2	11.5	12.8	13.6	15.3	17.6	20.6
34	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	6.7	8.2	9.5	10.8	12.1	13.6	14.4	16.2	18.5	21.6
35	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.5	6.8	8.4	9.9	11.3	12.8	14.4	15.2	17.0	19.5	22.7
36	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.4	5.6	6.9	8.6	10.3	11.9	13.5	15.2	16.1	18.0	20.5	23.8
37	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.1	4.4	5.7	7.1	8.8	10.6	12.4	14.1	16.0	17.0	18.9	21.6	24.9
38	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.4	5.7	7.2	9.0	10.9	12.9	14.8	16.9	17.9	20.0	22.7	26.2
39	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	5.7	7.3	9.2	11.2	13.3	15.6	17.7	18.9	21.1	23.9	27.5
40	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	5.7	7.4	9.4	11.5	13.8	16.2	18.6	19.9	22.2	25.1	28.8
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	5.6	7.4	9.5	11.7	14.2	16.8	19.5	20.8	23.4	26.5	30.3
42	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.0	2.8	4.0	5.5	7.4	9.6	11.9	14.5	17.4	20.4	21.8	24.7	27.9	31.8
43	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	7.4	9.7	12.1	14.8	18.0	21.3	22.9	25.9	29.3	33.4
44	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	7.3	9.8	12.3	15.1	18.5	22.1	23.9	27.1	30.9	35.1
45	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	7.1	9.8	12.5	15.4	18.9	22.9	24.8	28.4	32.5	36.9
46	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.0	6.9	9.8	12.6	15.7	19.4	23.6	25.7	29.7	34.1	38.8
47	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	6.8	9.7	12.7	15.9	19.7	24.3	26.6	31.0	35.6	40.8
48	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	4.9	6.6	9.5	12.7	16.1	20.1	24.9	27.4	32.2	37.3	42.8
49	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	6.5	9.3	12.7	16.3	20.5	25.5	28.1	33.3	38.9	44.9
50	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.4	4.7	6.4	9.1	12.6	16.5	20.8	26.0	28.8	34.4	40.7	46.9

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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 17 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	62.8
59	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	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.2	7.5	10.5	14.4	20.0	28.3	32.9	41.8	52.9	65.9
61	0.1	0.1	0.1	0.1	0.2	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	0.2	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	0.2	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	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.7	6.9	9.6	13.4	18.7	26.3	31.2	42.6	55.8	70.8
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.7	9.4	13.2	18.5	25.9	30.7	42.3	56.4	71.9
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.2	4.5	6.6	9.2	12.9	18.2	25.5	30.1	41.7	56.7	72.8
67	0.1	0.1	0.1	0.2	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	12.7	17.9	25.1	29.7	40.7	56.7	73.7
68	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	6.3	8.8	12.4	17.5	24.7	29.2	40.0	56.5	74.5
69	0.1	0.1	0.1	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.5	11.9	16.9	24.0	28.4	38.8	55.0	75.5
71	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	5.8	8.3	11.6	16.5	23.6	28.0	38.2	53.9	75.5
72	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	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.5	5.2	7.4	10.5	14.9	21.5	25.7	35.6	50.0	70.4
77	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	3.4	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	0.2	0.2	0.3	0.4	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	0.2	0.2	0.3	0.4	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	0.2	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	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.7	2.3	3.2	4.6	6.6	9.4	13.4	19.5	23.3	32.5	46.6	65.8
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	1.7	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	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	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	0.2	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	0.2	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	0.2	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	0.2	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	5.6	8.0	11.6	16.8	20.2	28.5	41.0	59.1
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	2.1	2.8	4.0	5.5	7.8	11.3	16.5	19.8	27.9	40.3	58.1
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	2.1	2.8	3.9	5.4	7.7	11.0	16.2	19.4	27.3	39.6	57.0
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	2.8	3.9	5.4	7.5	10.8	15.8	19.1	26.7	38.9	56.0
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	2.8	3.8	5.3	7.4	10.5	15.5	18.7	26.2	38.2	55.0
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	2.8	3.8	5.2	7.2	10.3	15.1	18.3	25.7	37.4	54.0
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	2.8	3.8	5.1	7.1	10.1	14.8	17.9	25.2	36.6	53.0
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	2.1	2.8	3.8	5.1	7.0	9.9	14.4	17.5	24.8	35.8	52.1
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	2.8	3.8	5.0	6.9	9.7	14.1	17.0	24.3	35.1	51.3
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	3.8	5.0	6.8	9.6	13.8	16.7	23.8	34.4	50.3
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	3.7	5.0	6.7	9.4	13.6	16.3	23.2	33.8	49.2
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	3.7	5.0	6.6	9.3	13.3	16.0	22.7	33.3	48.2
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	5.0	6.6	9.2	13.1	15.7	22.2	32.6	47.2

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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 10 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	2.0	2.4	2.7	3.4	4.4	5.9
2	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	1.0	1.1	1.2	1.4	1.6	1.8	2.1	2.6	2.8	3.5	4.5	6.1
3	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.7	1.9	2.2	2.7	3.0	3.7	4.7	6.3
4	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.8	2.0	2.4	2.8	3.1	3.8	4.9	6.5
5	0.2	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.9	2.1	2.5	3.0	3.3	4.0	5.1	6.7
6	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	6.9
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	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.2
8	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.7	7.4
9	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
10	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	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	8.0
11	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.3	6.5	8.3
12	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.3	2.5	2.8	3.2	3.7	4.3	4.7	5.5	6.8	8.6
13	0.2	0.2	0.3	0.4	0.5	0.7	0.9	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	9.0
14	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	2.6	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3
15	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	2.5	2.7	3.1	3.4	3.8	4.4	5.1	5.5	6.4	7.8	9.7
16	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.6	5.3	5.8	6.7	8.2	10.1
17	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.6	6.1	7.1	8.5	10.6
18	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	8.9	11.0
19	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.5	1.8	2.2	2.5	2.9	3.2	3.5	3.9	4.3	4.9	5.5	6.3	6.8	7.8	9.4	11.5
20	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.8	2.2	2.6	3.0	3.4	3.7	4.2	4.6	5.2	5.8	6.7	7.2	8.3	9.8	12.0
21	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.5	1.9	2.3	2.7	3.2	3.6	4.0	4.4	4.9	5.5	6.2	7.0	7.5	8.7	10.3	12.5
22	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.3	2.8	3.3	3.8	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.1
23	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	5.0	5.5	6.1	6.9	7.9	8.4	9.6	11.4	13.7
24	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.4	3.0	3.6	4.2	4.7	5.3	5.9	6.5	7.3	8.3	8.9	10.1	11.9	14.3
25	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	4.4	5.0	5.7	6.2	6.9	7.7	8.8	9.4	10.7	12.5	15.0
26	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.1	3.8	4.6	5.2	6.0	6.6	7.3	8.2	9.3	9.9	11.3	13.1	15.7
27	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	5.3	6.3	7.0	7.8	8.7	9.8	10.5	11.9	13.8	16.4
28	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	4.9	5.7	6.6	7.5	8.2	9.2	10.4	11.0	12.5	14.5	17.2
29	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.6	3.3	4.1	5.0	5.9	7.0	7.8	8.7	9.7	11.0	11.7	13.2	15.3	18.0
30	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.2	5.1	6.1	7.3	8.3	9.3	10.3	11.6	12.3	13.9	16.0	18.9
31	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.2	5.2	6.3	7.6	8.7	9.8	10.9	12.3	13.0	14.6	16.9	19.8
32	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.3	4.3	5.3	6.5	7.9	9.1	10.3	11.6	13.0	13.7	15.4	17.8	20.7
33	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.4	5.4	6.6	8.1	9.5	10.8	12.2	13.7	14.5	16.3	18.7	21.8
34	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	5.5	6.8	8.4	9.9	11.4	12.9	14.5	15.3	17.2	19.6	22.8
35	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.1	4.4	5.6	6.9	8.6	10.2	11.9	13.5	15.3	16.2	18.1	20.7	24.0
36	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	7.0	8.8	10.6	12.4	14.2	16.2	17.1	19.1	21.8	25.1
37	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	5.6	7.1	9.0	10.9	12.9	14.9	17.0	18.1	20.2	22.9	26.4
38	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	5.6	7.2	9.1	11.1	13.3	15.6	17.9	19.1	21.3	24.1	27.7
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	5.6	7.3	9.3	11.4	13.7	16.3	18.7	20.0	22.4	25.4	29.1
40	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	5.5	7.3	9.4	11.6	14.1	16.9	19.7	21.0	23.7	26.7	30.6
41	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	7.3	9.5	11.8	14.5	17.4	20.6	22.0	24.9	28.2	32.1
42	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	7.2	9.6	12.0	14.7	17.9	21.4	23.0	26.1	29.7	33.8
43	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.1	7.0	9.7	12.2	15.0	18.4	22.2	24.0	27.3	31.3	35.5
44	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.0	6.9	9.7	12.3	15.3	18.9	22.9	24.9	28.6	32.8	37.3
45	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.6	4.9	6.7	9.6	12.5	15.6	19.3	23.6	25.8	29.9	34.4	39.2
46	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.5	4.8	6.6	9.4	12.5	15.8	19.6	24.2	26.6	31.2	36.0	41.3
47	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	12.5	16.0	20.0	24.8	27.4	32.3	37.6	43.3
48	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	12.4	16.1	20.3	25.3	28.1	33.4	39.3	45.3
49	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	6.2	8.8	12.2	16.2	20.6	25.8	28.7	34.4	40.9	47.3
50	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	6.1	8.7	12.0	16.2	20.9	26.3	29.3	35.4	42.4	49.4

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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 18 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	0.7	1.1	1.5	2.2	3.1	4.3	6.0	8.5	11.7	16.1	21.1	26.7	29.8	36.3	43.9	51.6
52	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.9	8.4	11.5	15.9	21.2	27.1	30.4	37.1	45.2	53.8
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	55.8
54	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	8.1	11.1	15.2	21.2	27.8	31.3	38.6	47.7	57.7
55	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	59.5
56	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	61.2
57	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	62.8
58	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	64.3
59	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	65.7
60	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	41.8	53.3	66.9
61	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	68.1
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	3.3	4.7	6.8	9.5	13.3	18.4	25.9	30.8	41.9	54.7	69.3
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	70.3
64	0.1	0.1	0.1	0.2	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	71.3
65	0.1	0.1	0.1	0.2	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	72.2
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.2	8.7	12.2	17.3	24.4	28.8	39.5	55.6	73.0
67	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	6.1	8.5	12.0	17.0	24.1	28.4	38.8	55.1	73.7
68	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	11.7	16.6	23.7	28.0	38.2	54.2	74.1
69	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	2.8	3.9	5.8	8.2	11.5	16.3	23.3	27.6	37.6	53.0	74.1
70	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	5.6	8.0	11.2	16.0	22.8	27.2	37.0	52.2	73.8
71	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	3.8	5.5	7.8	11.0	15.6	22.4	26.7	36.5	51.4	73.1
72	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	7.6	10.8	15.3	22.0	26.2	36.1	50.6	71.8
73	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	7.4	10.6	15.0	21.6	25.8	35.6	49.8	70.4
74	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.5	3.5	5.1	7.3	10.3	14.7	21.1	25.3	35.0	49.2	69.3
75	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	5.0	7.1	10.1	14.4	20.7	24.8	34.4	48.5	68.3
76	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	4.9	7.0	9.8	14.1	20.3	24.3	33.8	48.0	67.3
77	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	3.2	4.8	6.8	9.6	13.8	19.9	23.8	33.2	47.3	66.3
78	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	3.2	4.6	6.7	9.4	13.5	19.5	23.4	32.6	46.5	65.5
79	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	3.1	4.5	6.5	9.2	13.2	19.1	22.9	32.0	45.8	64.7
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.0	12.9	18.8	22.5	31.4	45.0	64.0
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	1.6	2.2	3.0	4.4	6.2	8.8	12.6	18.4	22.0	30.8	44.2	63.0
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	1.6	2.1	3.0	4.3	6.0	8.6	12.4	18.0	21.6	30.2	43.4	62.1
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	1.6	2.1	2.9	4.2	5.9	8.4	12.1	17.6	21.2	29.6	42.7	61.1
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	1.6	2.1	2.9	4.1	5.8	8.2	11.9	17.2	20.7	29.1	41.9	60.1
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	2.1	2.8	4.0	5.7	8.0	11.6	16.8	20.2	28.5	41.1	59.1
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	2.1	2.8	4.0	5.5	7.8	11.4	16.5	19.8	28.0	40.3	58.1
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	2.1	2.8	3.9	5.4	7.7	11.1	16.2	19.4	27.4	39.6	57.0
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	2.1	2.8	3.9	5.3	7.5	10.8	15.9	19.0	26.8	38.8	56.0
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	2.1	2.8	3.8	5.3	7.4	10.6	15.5	18.7	26.2	38.1	55.0
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	2.1	2.8	3.8	5.2	7.2	10.3	15.2	18.3	25.7	37.5	54.0
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	2.7	3.7	5.1	7.1	10.1	14.8	17.9	25.2	36.7	53.0
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	2.7	3.7	5.1	7.0	9.9	14.5	17.5	24.7	36.0	52.1
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	2.7	3.7	5.0	6.9	9.7	14.1	17.1	24.3	35.2	51.2
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	3.7	4.9	6.8	9.6	13.8	16.7	23.8	34.5	50.3
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	3.7	4.9	6.7	9.4	13.6	16.3	23.3	33.8	49.3
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	3.7	4.9	6.6	9.2	13.3	16.0	22.8	33.2	48.3
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	3.7	4.9	6.5	9.1	13.1	15.7	22.3	32.7	47.3
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	3.7	4.9	6.5	9.0	12.8	15.4	21.8	32.0	46.3
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	3.7	4.8	6.4	8.9	12.6	15.1	21.3	31.3	45.5
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	4.8	6.4	8.8	12.4	14.8	20.9	30.7	44.7

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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 19 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.4	1.5	1.8	2.1	2.5	2.8	3.5	4.5	6.0
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	1.6	1.9	2.2	2.7	3.0	3.6	4.7	6.2
3	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.1	3.8	4.9	6.4
4	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.8	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
5	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.3	2.6	3.1	3.4	4.2	5.3	6.9
6	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.9	2.1	2.4	2.8	3.3	3.6	4.4	5.5	7.1
7	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.7	2.0	2.2	2.5	2.9	3.5	3.8	4.6	5.7	7.4
8	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
9	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.3	3.9	4.2	5.0	6.2	8.0
10	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.3	6.5	8.3
11	0.2	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.2	3.7	4.3	4.7	5.5	6.8	8.6
12	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9
13	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	2.6	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3
14	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	2.5	2.7	3.1	3.4	3.8	4.4	5.1	5.5	6.4	7.8	9.7
15	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.1	4.6	5.3	5.8	6.7	8.1	10.1
16	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.3	2.5	2.8	3.1	3.5	3.8	4.3	4.9	5.6	6.1	7.1	8.5	10.5
17	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.1	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.4	8.9	11.0
18	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.5	2.9	3.2	3.5	3.9	4.3	4.9	5.5	6.3	6.8	7.8	9.4	11.5
19	0.1	0.2	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	4.2	4.6	5.1	5.8	6.7	7.1	8.2	9.8	12.0
20	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.3	2.7	3.2	3.6	4.0	4.4	4.9	5.5	6.2	7.0	7.5	8.7	10.3	12.5
21	0.1	0.2	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	8.0	9.1	10.8	13.1
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	3.5	4.0	4.5	5.0	5.5	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	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.7	5.3	5.9	6.5	7.3	8.3	8.9	10.2	11.9	14.3
24	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.5	2.0	2.5	3.0	3.7	4.4	5.0	5.7	6.3	6.9	7.8	8.8	9.4	10.7	12.5	15.0
25	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	3.1	3.8	4.5	5.2	6.0	6.6	7.4	8.2	9.3	9.9	11.3	13.2	15.7
26	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	5.5	6.3	7.1	7.8	8.7	9.8	10.5	11.9	13.8	16.4
27	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	7.5	8.3	9.2	10.4	11.1	12.5	14.5	17.2
28	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.5	3.2	4.1	5.0	5.9	7.0	7.9	8.8	9.8	11.0	11.7	13.2	15.3	18.0
29	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	6.1	7.3	8.3	9.3	10.4	11.6	12.4	13.9	16.1	18.9
30	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.3	4.2	5.2	6.3	7.6	8.7	9.8	11.0	12.3	13.1	14.7	16.9	19.8
31	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	5.3	6.4	7.9	9.1	10.3	11.6	13.0	13.8	15.5	17.8	20.8
32	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.3	5.4	6.6	8.1	9.5	10.9	12.3	13.8	14.6	16.4	18.7	21.8
33	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	6.7	8.3	9.8	11.4	12.9	14.6	15.4	17.3	19.7	22.9
34	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	6.8	8.5	10.2	11.9	13.6	15.4	16.3	18.2	20.8	24.1
35	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	5.6	6.9	8.7	10.5	12.4	14.3	16.3	17.2	19.2	21.9	25.3
36	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	5.6	7.0	8.9	10.8	12.9	15.0	17.1	18.2	20.3	23.0	26.5
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	7.1	9.1	11.1	13.3	15.6	17.9	19.2	21.4	24.3	27.9
38	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	5.5	7.2	9.2	11.3	13.7	16.3	18.8	20.1	22.6	25.6	29.3
39	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	7.2	9.3	11.5	14.0	16.8	19.7	21.1	23.9	26.9	30.8
40	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	9.4	11.7	14.4	17.4	20.6	22.1	25.0	28.4	32.4
41	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	9.5	11.9	14.6	17.9	21.4	23.1	26.2	29.9	34.0
42	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.0	6.9	9.5	12.1	14.9	18.3	22.1	24.1	27.5	31.5	35.8
43	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	9.5	12.2	15.2	18.8	22.9	24.9	28.8	33.0	37.6
44	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.8	6.5	9.4	12.3	15.4	19.1	23.5	25.8	30.1	34.6	39.6
45	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	12.3	15.6	19.5	24.1	26.6	31.2	36.2	41.6
46	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	12.3	15.8	19.8	24.7	27.3	32.3	37.8	43.6
47	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	12.2	15.9	20.1	25.2	28.0	33.4	39.5	45.6
48	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	6.1	8.6	11.9	16.0	20.4	25.6	28.6	34.4	41.1	47.7
49	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	6.0	8.4	11.6	15.9	20.7	26.1	29.1	35.3	42.5	49.8
50	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	8.3	11.4	15.8	20.9	26.5	29.6	36.2	43.9	52.0

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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 19 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	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	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	11.0	15.1	20.9	27.2	30.6	37.6	46.4	55.9
53	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	10.8	14.8	20.7	27.5	31.0	38.3	47.6	57.7
54	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	10.6	14.5	20.4	27.7	31.4	39.0	48.6	59.5
55	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	14.3	19.9	27.7	31.7	39.5	49.5	61.1
56	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	10.3	14.0	19.5	27.6	31.8	40.1	50.5	62.7
57	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	10.1	13.8	19.2	27.3	31.8	40.6	51.3	64.1
58	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	4.9	7.1	9.9	13.6	18.8	26.7	31.6	41.0	52.1	65.3
59	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	13.4	18.5	26.1	31.2	41.2	52.8	66.5
60	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	13.1	18.2	25.7	30.5	41.2	53.5	67.7
61	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	12.9	18.0	25.2	29.9	41.1	54.1	68.8
62	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	12.6	17.7	24.8	29.4	40.6	54.6	69.7
63	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	12.4	17.4	24.4	28.9	39.9	54.7	70.7
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	2.1	3.0	4.2	6.2	8.6	12.1	17.1	24.1	28.4	39.0	54.7	71.5
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.4	11.9	16.8	23.7	28.0	38.4	54.3	72.3
66	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	5.9	8.3	11.6	16.4	23.4	27.6	37.7	53.6	72.7
67	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	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	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	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	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	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	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	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	3.3	4.8	6.9	9.7	13.9	20.1	24.0	33.4	47.3	66.3
75	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	3.2	4.7	6.7	9.5	13.7	19.6	23.5	32.8	46.6	65.4
76	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	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	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	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	3.0	4.4	6.2	8.9	12.7	18.5	22.1	31.0	44.4	63.0
79	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	4.3	6.1	8.7	12.4	18.2	21.7	30.4	43.6	62.1
80	0.1	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	8.5	12.2	17.7	21.3	29.8	42.8	61.2
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	1.6	2.1	2.9	4.1	5.8	8.3	12.0	17.3	20.9	29.2	42.0	60.2
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	1.6	2.1	2.8	4.0	5.7	8.1	11.7	16.9	20.4	28.6	41.3	59.2
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	1.6	2.1	2.8	4.0	5.6	7.9	11.5	16.6	20.0	28.1	40.5	58.2
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	1.6	2.1	2.8	3.9	5.5	7.7	11.2	16.3	19.5	27.6	39.7	57.2
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	2.1	2.7	3.9	5.4	7.6	10.9	16.0	19.1	27.1	39.0	56.2
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	3.8	5.3	7.4	10.7	15.6	18.7	26.5	38.3	55.2
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	2.7	3.8	5.2	7.3	10.4	15.3	18.4	25.9	37.6	54.2
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	2.7	3.7	5.1	7.1	10.2	15.0	18.1	25.3	36.9	53.2
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	2.7	3.7	5.0	7.0	10.0	14.6	17.7	24.8	36.2	52.2
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	2.7	3.7	5.0	6.9	9.8	14.3	17.3	24.4	35.4	51.3
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	2.7	3.7	4.9	6.8	9.6	13.9	16.9	24.0	34.6	50.4
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	2.7	3.6	4.8	6.7	9.4	13.6	16.5	23.5	33.9	49.5
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	2.7	3.6	4.8	6.6	9.2	13.4	16.1	23.0	33.3	48.6
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	3.6	4.8	6.5	9.1	13.1	15.8	22.5	32.7	47.6
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	3.6	4.8	6.4	9.0	12.9	15.4	22.0	32.2	46.6
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	3.6	4.8	6.3	8.8	12.6	15.2	21.4	31.5	45.6
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	4.7	6.3	8.7	12.4	14.9	21.0	30.9	44.8
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	4.7	6.3	8.6	12.2	14.6	20.5	30.2	44.0
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	4.7	6.3	8.5	12.0	14.3	20.2	29.5	43.3
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	4.7	6.3	8.4	11.9	14.1	19.8	28.9	42.5

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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 20 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.4	0.5	0.5	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	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	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	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	2.0	2.2	2.6	3.1	3.4	4.1	5.2	6.9
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	1.6	1.8	2.1	2.4	2.7	3.3	3.6	4.3	5.4	7.1
6	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.7	2.0	2.2	2.5	2.9	3.4	3.8	4.5	5.7	7.4
7	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.1	2.3	2.7	3.1	3.6	4.0	4.7	5.9	7.6
8	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	0.8	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	1.0	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	3.1	3.9	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	0.2	0.3	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	1.3	1.8	2.5	3.2	4.1	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	19.8
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	8.1	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	6.9	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	5.5	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	9.0	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	9.1	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	11.4	14.0	16.8	19.8	21.1	23.9	27.0	30.9
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	14.3	17.3	20.6	22.1	25.1	28.5	32.5
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	11.8	14.5	17.8	21.4	23.1	26.3	30.0	34.2
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	15.5	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

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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 20 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	0.3	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	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.6	5.3	7.5	10.6	15.0	21.5	25.7	35.2	49.4	70.3
69	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	2.5	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	0.3	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	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.3	4.9	7.0	9.9	14.1	20.3	24.3	33.6	47.3	66.6
72	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	6.8	9.6	13.8	19.9	23.8	33.0	46.7	65.6
73	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	3.2	4.7	6.7	9.4	13.5	19.5	23.3	32.4	46.1	64.6
74	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	6.5	9.2	13.2	19.1	22.8	31.8	45.4	63.7
75	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	3.0	4.4	6.4	9.0	12.9	18.7	22.4	31.2	44.6	62.9
76	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	3.0	4.3	6.2	8.8	12.6	18.3	21.9	30.6	43.9	62.2
77	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	2.9	4.3	6.0	8.6	12.3	18.0	21.5	30.1	43.1	61.4
78	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	2.9	4.2	5.9	8.4	12.1	17.6	21.1	29.5	42.4	60.4
79	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	2.8	4.1	5.7	8.2	11.8	17.2	20.7	28.9	41.6	59.5
80	0.1	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	4.0	5.6	8.0	11.6	16.8	20.2	28.3	40.8	58.5
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	2.0	2.8	3.9	5.5	7.8	11.3	16.4	19.8	27.8	40.0	57.5
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	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	0.3	0.4	0.5	0.6	0.7	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	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.6	4.8	6.6	9.3	13.5	16.3	23.2	33.5	48.9
91	0.1	0.1	0.2	0.2	0.3	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	0.3	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	0.3	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	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.7	6.2	8.7	12.5	15.0	21.2	31.1	45.1
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	4.7	6.2	8.6	12.2	14.7	20.7	30.5	44.2
96	0.1	0.1	0.2	0.2	0.3	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	0.3	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	0.3	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	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.6	6.1	8.2	11.5	13.7	19.2	27.9	41.1
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	6.1	8.2	11.4	13.5	18.8	27.3	40.2

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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 21 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.8	3.0	3.7	4.8	6.4
2	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.1	2.4	2.9	3.2	3.9	5.0	6.6
3	0.2	0.2	0.3	0.4	0.5	0.6	0.6	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	4.1	5.2	6.8
4	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.3	5.4	7.0
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	1.4	1.5	1.7	1.9	2.2	2.5	2.9	3.4	3.7	4.5	5.6	7.3
6	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	2.6	3.0	3.6	3.9	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	1.7	1.9	2.2	2.5	2.8	3.2	3.8	4.1	4.9	6.1	7.9
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	8.2
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	8.5
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	8.8
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	9.2
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	9.6
13	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.6	4.0	4.6	5.3	5.7	6.6	8.0	10.0
14	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.1	1.4	1.7	1.9	2.2	2.5	2.8	3.0	3.4	3.8	4.3	4.8	5.6	6.0	7.0	8.4	10.4
15	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.4	1.7	2.0	2.4	2.7	2.9	3.2	3.6	4.0	4.5	5.1	5.9	6.3	7.4	8.8	10.9
16	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.1	2.5	2.8	3.1	3.5	3.9	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4
17	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.8	2.2	2.6	3.0	3.3	3.7	4.1	4.6	5.1	5.7	6.6	7.1	8.2	9.7	11.9
18	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.8	2.2	2.7	3.1	3.5	3.9	4.4	4.9	5.4	6.1	7.0	7.5	8.6	10.2	12.4
19	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.8	3.3	3.7	4.2	4.7	5.2	5.7	6.5	7.4	7.9	9.1	10.7	13.0
20	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.3	2.8	3.4	3.9	4.4	5.0	5.5	6.1	6.9	7.8	8.3	9.6	11.3	13.6
21	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.5	1.9	2.4	2.9	3.5	4.1	4.7	5.3	5.8	6.5	7.3	8.2	8.8	10.1	11.8	14.2
22	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.7	4.3	4.9	5.6	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.9
23	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.0	3.8	4.5	5.2	5.9	6.6	7.3	8.2	9.2	9.9	11.2	13.1	15.6
24	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.3	1.9	2.5	3.1	3.8	4.6	5.4	6.3	7.0	7.8	8.7	9.8	10.4	11.8	13.8	16.3
25	0.1	0.1	0.2	0.2	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	2.4	3.2	4.0	4.9	5.8	6.9	7.8	8.8	9.7	11.0	11.7	13.2	15.2	18.0
27	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.4	3.2	4.1	5.0	6.0	7.2	8.2	9.3	10.3	11.6	12.3	13.9	16.0	18.8
28	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.2	4.1	5.1	6.2	7.5	8.7	9.8	10.9	12.3	13.0	14.7	16.9	19.8
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	13.8	15.5	17.8	20.8
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	14.6	16.3	18.7	21.8
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	6.6	8.2	9.8	11.4	12.9	14.6	15.4	17.3	19.7	22.9
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	10.1	11.9	13.6	15.4	16.3	18.2	20.8	24.1
33	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.1	5.4	6.8	8.6	10.4	12.3	14.2	16.2	17.3	19.3	21.9	25.3
34	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	4.0	5.4	6.9	8.7	10.7	12.7	14.9	17.1	18.2	20.3	23.1	26.6
35	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	5.3	7.0	8.9	10.9	13.1	15.6	17.9	19.2	21.5	24.3	27.9
36	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	7.0	9.0	11.2	13.5	16.1	18.8	20.1	22.7	25.6	29.4
37	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.6	3.7	5.1	7.0	9.1	11.3	13.9	16.7	19.7	21.1	23.9	27.0	30.9
38	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	32.5
39	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	11.7	14.4	17.7	21.3	23.1	26.3	30.1	34.2
40	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	6.6	9.3	11.8	14.7	18.1	22.0	24.0	27.5	31.6	36.0
41	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	11.9	14.9	18.5	22.7	24.8	28.8	33.1	37.9
42	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	12.0	15.1	18.8	23.3	25.6	30.0	34.7	39.9
43	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	6.1	8.8	12.0	15.3	19.2	23.8	26.3	31.1	36.3	41.9
44	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	15.5	19.5	24.3	27.0	32.2	38.0	43.8
45	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	5.9	8.4	11.7	15.5	19.8	24.8	27.6	33.2	39.5	45.8
46	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	15.5	20.0	25.2	28.1	34.1	41.0	47.9
47	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	20.2	25.7	28.7	35.0	42.4	50.0
48	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	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	0.1	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	0.1	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

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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 21 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	5.2	7.5	10.3	14.1	19.9	26.8	30.4	37.7	47.1	57.5
52	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	7.3	10.2	13.9	19.4	26.9	30.7	38.3	48.0	59.1
53	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	13.6	19.0	26.8	30.9	38.8	48.9	60.7
54	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	9.8	13.4	18.6	26.5	30.9	39.3	49.7	62.1
55	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	13.2	18.3	26.0	30.7	39.7	50.5	63.3
56	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	18.0	25.4	30.3	39.9	51.2	64.4
57	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	6.5	9.2	12.7	17.7	24.9	29.7	40.0	51.9	65.6
58	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	9.0	12.5	17.4	24.5	29.0	39.8	52.4	66.7
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.8	12.2	17.2	24.0	28.5	39.4	52.9	67.6
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	2.1	3.0	4.2	6.1	8.6	12.0	16.9	23.7	28.0	38.6	53.1	68.5
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	4.0	6.0	8.4	11.7	16.6	23.3	27.5	37.8	53.0	69.3
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	2.0	2.8	4.0	5.8	8.2	11.5	16.2	23.0	27.1	37.1	52.6	70.1
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	1.9	2.7	3.9	5.7	8.0	11.2	15.9	22.6	26.7	36.5	51.9	70.5
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.8	11.0	15.6	22.2	26.4	35.9	50.8	70.6
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	1.8	2.6	3.7	5.4	7.6	10.7	15.3	21.8	25.9	35.4	49.9	70.4
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	1.8	2.5	3.6	5.3	7.5	10.5	14.9	21.4	25.5	34.9	49.0	69.7
67	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	5.1	7.3	10.3	14.6	21.0	25.0	34.4	48.3	68.6
68	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	5.0	7.1	10.1	14.3	20.6	24.6	33.9	47.5	67.1
69	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	3.3	4.9	6.9	9.8	14.0	20.2	24.1	33.4	46.8	66.1
70	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	3.2	4.8	6.8	9.6	13.7	19.7	23.6	32.8	46.2	65.0
71	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	4.7	6.6	9.3	13.4	19.3	23.1	32.2	45.7	64.0
72	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	4.5	6.5	9.1	13.2	18.9	22.7	31.6	45.0	63.1
73	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	3.0	4.4	6.3	8.9	12.8	18.5	22.2	31.0	44.3	62.3
74	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	3.0	4.3	6.2	8.8	12.5	18.2	21.8	30.4	43.5	61.5
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	1.5	2.1	2.9	4.2	6.0	8.6	12.2	17.8	21.3	29.8	42.8	60.8
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	1.5	2.1	2.8	4.1	5.8	8.4	12.0	17.5	20.9	29.2	42.0	59.9
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	1.5	2.0	2.8	4.0	5.7	8.2	11.7	17.1	20.5	28.7	41.2	58.9
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	1.5	2.0	2.8	4.0	5.6	8.0	11.5	16.7	20.1	28.1	40.5	58.0
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	1.5	2.0	2.7	3.9	5.5	7.8	11.3	16.3	19.6	27.5	39.7	57.0
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	2.0	2.7	3.8	5.4	7.6	11.0	15.9	19.2	27.0	38.9	56.0
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	2.0	2.6	3.8	5.2	7.4	10.7	15.6	18.7	26.5	38.2	55.0
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	2.0	2.6	3.7	5.1	7.3	10.5	15.3	18.4	26.0	37.5	54.0
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	2.0	2.6	3.7	5.1	7.1	10.2	15.0	18.0	25.4	36.8	53.0
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	2.6	3.6	5.0	7.0	10.0	14.7	17.7	24.8	36.1	52.1
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	2.6	3.6	4.9	6.8	9.8	14.3	17.3	24.3	35.5	51.1
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	2.6	3.5	4.8	6.7	9.6	14.0	16.9	23.8	34.7	50.2
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	3.5	4.8	6.6	9.4	13.7	16.6	23.4	34.0	49.3
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	2.6	3.5	4.7	6.5	9.2	13.4	16.2	23.0	33.2	48.4
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	3.5	4.7	6.4	9.0	13.1	15.8	22.5	32.5	47.6
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	3.5	4.6	6.3	8.9	12.8	15.4	22.0	31.9	46.6
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	3.5	4.6	6.2	8.7	12.6	15.1	21.5	31.4	45.6
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	3.5	4.6	6.2	8.6	12.3	14.8	21.0	30.8	44.6
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	3.5	4.6	6.1	8.5	12.1	14.5	20.5	30.2	43.8
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	3.5	4.6	6.1	8.4	11.9	14.3	20.1	29.6	43.0
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	4.6	6.1	8.3	11.7	14.0	19.7	28.9	42.2
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	4.5	6.1	8.2	11.5	13.8	19.3	28.3	41.5
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	4.6	6.0	8.1	11.4	13.6	19.0	27.6	40.7
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	4.6	6.0	8.1	11.3	13.4	18.6	27.1	39.9
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	6.0	8.1	11.1	13.2	18.3	26.5	39.0
100	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	6.0	8.0	11.0	13.0	18.0	26.1	38.2

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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 22 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																							
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.6	1.8	2.0	2.4	2.9	3.2	3.9	4.9	6.5
2	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.2	2.5	3.0	3.3	4.0	5.1	6.7
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.8	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	5.3	7.0
4	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.8	3.4	3.7	4.4	5.6	7.2
5	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.5	3.9	4.6	5.8	7.5
6	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.2	2.4	2.8	3.2	3.7	4.1	4.9	6.1	7.8
7	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.3	2.6	2.9	3.4	4.0	4.3	5.1	6.3	8.1
8	0.1	0.2	0.3	0.4	0.5	0.7	0.8	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	4.5	5.4	6.6	8.4
9	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	3.8	4.4	4.8	5.7	6.9	8.8
10	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.7	5.1	5.9	7.3	9.1
11	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.0	1.3	1.5	1.7	2.0	2.2	2.4	2.6	3.0	3.3	3.7	4.2	4.9	5.3	6.3	7.6	9.5
12	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.8	2.1	2.3	2.6	2.8	3.2	3.5	4.0	4.5	5.2	5.6	6.6	8.0	9.9
13	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.2	2.5	2.7	3.0	3.4	3.8	4.2	4.8	5.5	5.9	6.9	8.4	10.3
14	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.6	4.0	4.5	5.1	5.8	6.3	7.3	8.8	10.8
15	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.4	1.7	2.1	2.4	2.8	3.1	3.4	3.8	4.3	4.7	5.4	6.2	6.6	7.7	9.2	11.3
16	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.7	4.1	4.5	5.0	5.7	6.5	7.0	8.1	9.6	11.8
17	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	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
18	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.3	2.7	3.3	3.7	4.1	4.6	5.1	5.7	6.4	7.3	7.8	9.0	10.6	12.9
19	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.9	2.3	2.8	3.4	3.9	4.4	4.9	5.4	6.1	6.8	7.7	8.3	9.5	11.2	13.5
20	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.3	2.9	3.5	4.1	4.6	5.3	5.8	6.4	7.2	8.2	8.8	10.0	11.8	14.1
21	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	4.3	4.9	5.6	6.2	6.8	7.6	8.7	9.3	10.5	12.4	14.8
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	4.4	5.2	5.9	6.6	7.3	8.1	9.2	9.8	11.1	13.0	15.5
23	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.4	3.1	3.8	4.6	5.4	6.2	7.0	7.7	8.6	9.7	10.3	11.7	13.7	16.2
24	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.1	3.9	4.7	5.6	6.5	7.4	8.2	9.1	10.3	10.9	12.4	14.4	17.0
25	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.1	4.0	4.8	5.8	6.9	7.8	8.7	9.7	10.9	11.6	13.1	15.2	17.9
26	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.4	3.2	4.0	4.9	6.0	7.2	8.2	9.2	10.3	11.5	12.3	13.8	16.0	18.7
27	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	5.0	6.1	7.4	8.6	9.7	10.9	12.2	13.0	14.6	16.8	19.7
28	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.1	5.1	6.3	7.7	9.0	10.2	11.6	12.9	13.7	15.4	17.7	20.7
29	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.1	5.2	6.4	7.9	9.4	10.8	12.2	13.7	14.5	16.3	18.6	21.7
30	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	3.0	4.1	5.3	6.5	8.1	9.7	11.3	12.8	14.5	15.4	17.2	19.6	22.8
31	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	5.3	6.6	8.3	10.0	11.8	13.5	15.4	16.3	18.2	20.7	24.0
32	0.1	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	8.5	10.3	12.2	14.2	16.2	17.2	19.2	21.8	25.2
33	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	5.3	6.8	8.7	10.6	12.7	14.9	17.0	18.2	20.3	23.0	26.5
34	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	5.3	6.9	8.8	10.8	13.0	15.5	17.9	19.1	21.4	24.3	27.9
35	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	5.2	6.9	8.9	11.0	13.4	16.0	18.7	20.0	22.6	25.6	29.3
36	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	6.9	9.0	11.2	13.7	16.6	19.6	21.0	23.8	27.0	30.8
37	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	6.8	9.1	11.4	14.0	17.1	20.4	22.0	25.0	28.5	32.4
38	0.1	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	6.6	9.2	11.6	14.3	17.5	21.1	23.0	26.2	30.0	34.1
39	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	9.1	11.7	14.5	18.0	21.8	23.8	27.4	31.5	35.9
40	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	6.3	9.0	11.8	14.8	18.3	22.5	24.7	28.7	33.0	37.8
41	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	4.5	6.2	8.8	11.8	15.0	18.7	23.1	25.4	29.9	34.6	39.8
42	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	11.8	15.2	19.0	23.6	26.1	31.0	36.2	41.8
43	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	5.9	8.4	11.7	15.3	19.3	24.1	26.8	32.0	37.9	43.7
44	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	11.4	15.3	19.6	24.6	27.4	33.0	39.4	45.7
45	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	3.0	4.1	5.7	8.1	11.1	15.3	19.8	25.0	27.9	33.9	40.8	47.8
46	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	7.9	10.9	15.1	20.0	25.4	28.4	34.7	42.2	50.0
47	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	5.5	7.8	10.7	14.8	20.0	25.8	28.9	35.4	43.4	52.0
48	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	14.4	20.0	26.1	29.3	36.1	44.6	53.8
49	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	5.2	7.5	10.3	14.1	19.8	26.4	29.7	36.8	45.7	55.6
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.4	10.1	13.9	19.5	26.5	30.1	37.4	46.7	57.3

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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 22 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	BAND CENTER FREQUENCY, HZ																								
	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000
51	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	5.0	7.2	10.0	13.6	19.0	26.5	30.4	37.9	47.6	58.8
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	4.8	7.0	9.8	13.4	18.6	26.3	30.4	38.4	48.5	60.3
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.4	3.4	4.7	6.9	9.6	13.2	18.3	26.0	30.4	38.9	49.3	61.6
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.7	9.4	13.0	17.9	25.4	30.1	39.3	50.0	62.8
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	9.2	12.7	17.6	24.9	29.7	39.4	50.7	64.0
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.4	6.4	9.0	12.5	17.3	24.4	29.0	39.4	51.3	65.1
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.8	12.2	17.1	24.0	28.4	39.1	51.9	66.1
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.2	6.1	8.6	12.0	16.8	23.6	27.9	38.6	52.2	67.0
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	6.0	8.4	11.7	16.5	23.2	27.4	37.7	52.3	67.9
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.2	11.5	16.2	22.8	27.0	37.0	52.1	68.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.7	8.0	11.2	15.9	22.5	26.6	36.4	51.6	69.3
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.8	11.0	15.5	22.1	26.2	35.7	50.8	69.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.7	15.2	21.7	25.8	35.2	49.6	69.5
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.5	3.6	5.2	7.5	10.5	14.9	21.3	25.4	34.6	48.8	69.1
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.1	7.3	10.2	14.6	20.9	24.9	34.2	48.0	68.3
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.5	24.5	33.7	47.2	67.0
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.3	4.9	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	0.4	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	0.3	0.4	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	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	2.0	2.6	3.7	5.1	7.2	10.4	15.2	18.2	25.8	37.2	53.7
81	0.1	0.1	0.1	0.2	0.2	0.3	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	0.3	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	0.3	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	6.6	9.5	13.9	16.8	23.7	34.5	49.8
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.5	4.7	6.5	9.3	13.6	16.5	23.2	33.8	48.9
86	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.5	4.7	6.4	9.1	13.3	16.1	22.8	33.0	48.0
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.5	4.6	6.3	8.9	13.0	15.7	22.3	32.3	47.2
88	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.4	4.6	6.3	8.8	12.7	15.3	21.9	31.7	46.3
89	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.5	3.4	4.6	6.2	8.6	12.5	15.0	21.4	31.1	45.3
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	3.4	4.6	6.1	8.5	12.2	14.7	20.9	30.6	44.3
91	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.4	4.5	6.0	8.4	12.0	14.4	20.4	30.0	43.4
92	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.5	6.0	8.3	11.8	14.1	19.9	29.4	42.6
93	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.6	3.4	4.5	6.0	8.2	11.6	13.9	19.5	28.7	41.9
94	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.5	6.0	8.1	11.4	13.6	19.2	28.1	41.2
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	4.5	5.9	8.0	11.3	13.4	18.8	27.5	40.4
96	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.7	3.5	4.5	5.9	7.9	11.1	13.2	18.5	26.9	39.6
97	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.8	3.6	4.5	5.9	7.9	11.0	13.0	18.1	26.3	38.8
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	5.9	7.9	10.9	12.9	17.8	25.8	37.9
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	5.9	7.9	10.7	12.7	17.6	25.4	37.1
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	5.9	7.8	10.7	12.6	17.3	24.9	36.3

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TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	1.0	1.1	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	0.7	0.8	0.9	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
5	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
6	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.5	2.9	3.3	3.9	4.2	5.1	6.3	8.0
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	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	6.6	8.3
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	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.1	3.5	4.0	4.6	5.0	5.9	7.2	9.0
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	0.3	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	0.2	0.3	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	0.2	0.3	0.4	0.6	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	5.8	6.2	7.2	8.7	10.7
14	0.1	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	4.7	5.3	6.1	6.6	7.6	9.1	11.2
15	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.3	3.6	4.0	4.5	5.0	5.6	6.4	6.9	8.0	9.5	11.7
16	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.1	3.5	3.9	4.3	4.8	5.3	6.0	6.8	7.3	8.4	10.0	12.2
17	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	3.7	4.1	4.6	5.1	5.6	6.3	7.2	7.7	8.9	10.5	12.8
18	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
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.3	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
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	3.6	4.2	4.8	5.5	6.1	6.8	7.6	8.6	9.2	10.4	12.2	14.7
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	0.2	0.3	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	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.1	3.8	4.7	5.5	6.5	7.3	8.1	9.0	10.2	10.8	12.3	14.3	16.9
24	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.4	3.1	3.9	4.8	5.7	6.8	7.7	8.6	9.6	10.8	11.5	13.0	15.0	17.7
25	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.1	4.0	4.9	5.9	7.1	8.1	9.1	10.2	11.4	12.2	13.7	15.8	18.6
26	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.1	4.0	5.0	6.1	7.4	8.5	9.6	10.8	12.1	12.9	14.5	16.7	19.5
27	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.1	5.1	6.2	7.6	8.9	10.1	11.5	12.8	13.6	15.3	17.6	20.5
28	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.1	5.2	6.3	7.9	9.3	10.7	12.1	13.6	14.4	16.2	18.5	21.6
29	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.1	5.2	6.5	8.1	9.6	11.2	12.7	14.4	15.3	17.1	19.5	22.7
30	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	6.6	8.2	9.9	11.7	13.4	15.3	16.1	18.0	20.6	23.8
31	0.1	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	8.4	10.2	12.1	14.1	16.1	17.1	19.1	21.7	25.0
32	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	5.3	6.7	8.6	10.5	12.5	14.7	16.9	18.0	20.1	22.9	26.3
33	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	6.8	8.7	10.8	12.9	15.3	17.7	19.0	21.3	24.1	27.7
34	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	6.8	8.8	10.9	13.3	15.9	18.6	19.9	22.5	25.5	29.2
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	4.9	6.8	8.9	11.1	13.6	16.4	19.5	20.9	23.7	26.9	30.7
36	0.1	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	6.7	9.0	11.3	13.9	16.9	20.3	21.9	24.8	28.3	32.3
37	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	6.5	9.0	11.4	14.2	17.4	21.0	22.8	26.1	29.9	34.0
38	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	6.3	9.0	11.6	14.4	17.8	21.7	23.7	27.3	31.4	35.8
39	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	4.5	6.2	8.9	11.7	14.6	18.1	22.3	24.5	28.6	32.9	37.7
40	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	6.1	8.7	11.7	14.8	18.5	22.9	25.2	29.7	34.5	39.7
41	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	5.9	8.5	11.6	15.0	18.8	23.4	25.9	30.8	36.1	41.6
42	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	5.8	8.3	11.5	15.1	19.1	23.9	26.6	31.8	37.7	43.6
43	0.1	0.1	0.1	0.1	0.2	0.3	0.3	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
44	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	5.6	7.9	10.9	15.1	19.6	24.8	27.7	33.6	40.6	47.7
45	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	5.5	7.8	10.7	14.9	19.8	25.2	28.2	34.4	41.9	49.8
46	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	3.9	5.4	7.7	10.5	14.5	19.8	25.5	28.6	35.1	43.1	51.7
47	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	5.2	7.5	10.3	14.2	19.7	25.8	29.0	35.8	44.3	53.5
48	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	19.5	26.1	29.4	36.5	45.4	55.3
49	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	7.2	9.9	13.6	19.1	26.2	29.8	37.0	46.3	56.9
50	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	9.8	13.4	18.6	26.1	30.0	37.6	47.2	58.4

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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 23 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.8	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	0.2	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	0.2	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	0.2	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	0.2	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	38.8	50.8	64.5
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	24.4	33.5	47.0	66.9
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	3.3	4.9	6.9	9.8	13.9	20.1	23.9	33.1	46.3	65.5
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.2	4.8	6.7	9.6	13.6	19.6	23.5	32.5	45.6	64.4
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.1	1.6	2.2	3.1	4.7	6.6	9.3	13.3	19.2	23.0	31.9	45.0	63.3
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	1.6	2.2	3.1	4.5	6.5	9.1	13.1	18.8	22.5	31.4	44.4	62.4
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	1.6	2.1	3.0	4.4	6.3	8.9	12.8	18.4	22.1	30.8	43.8	61.4
70	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	2.1	2.9	4.3	6.2	8.7	12.5	18.0	21.6	30.2	43.1	60.6
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	1.5	2.1	2.9	4.2	6.0	8.5	12.2	17.7	21.2	29.6	42.3	59.8
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	1.5	2.0	2.8	4.1	5.8	8.3	11.9	17.3	20.7	29.0	41.6	59.1
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	1.5	2.0	2.8	4.0	5.7	8.1	11.6	17.0	20.3	28.4	40.8	58.2
74	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	2.7	3.9	5.5	7.9	11.4	16.6	19.9	27.8	40.1	57.3
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	1.5	2.0	2.7	3.8	5.4	7.7	11.2	16.2	19.5	27.3	39.3	56.3
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	1.5	1.9	2.6	3.8	5.3	7.5	10.9	15.8	19.1	26.8	38.6	55.4
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	1.5	1.9	2.6	3.7	5.2	7.4	10.7	15.5	18.6	26.2	37.8	54.4
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	1.5	1.9	2.6	3.6	5.1	7.2	10.4	15.2	18.2	25.8	37.1	53.4
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	1.5	1.9	2.5	3.6	5.0	7.0	10.2	14.9	17.8	25.2	36.4	52.5
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	2.5	3.5	4.9	6.9	9.9	14.6	17.5	24.6	35.7	51.5
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	2.5	3.5	4.8	6.7	9.7	14.2	17.2	24.1	35.0	50.5
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	2.5	3.5	4.7	6.6	9.5	13.9	16.8	23.6	34.4	49.6
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	2.5	3.4	4.7	6.5	9.3	13.6	16.4	23.1	33.7	48.6
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	2.5	3.4	4.6	6.4	9.1	13.2	16.0	22.7	32.9	47.8
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.4	4.6	6.3	8.9	12.9	15.7	22.3	32.2	46.9
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	3.4	4.5	6.2	8.7	12.7	15.3	21.8	31.5	46.1
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	3.4	4.5	6.1	8.6	12.4	14.9	21.3	30.9	45.2
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	4.5	6.0	8.4	12.2	14.6	20.8	30.4	44.2
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	3.4	4.6	6.0	8.3	11.9	14.3	20.3	29.9	43.2
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	3.4	4.4	5.9	8.2	11.7	14.1	19.9	29.2	42.4
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	3.4	4.4	5.9	8.1	11.5	13.8	19.4	28.6	41.6
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	4.4	5.9	8.0	11.3	13.5	19.1	28.0	40.9
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	4.4	5.9	7.9	11.2	13.3	18.7	27.4	40.2
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	4.4	5.8	7.8	11.0	13.1	18.3	26.7	39.4
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	5.8	7.8	10.9	12.9	18.0	26.2	38.6
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	5.8	7.8	10.8	12.8	17.7	25.7	37.8
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	5.8	7.8	10.6	12.6	17.4	25.2	36.9
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	5.8	7.7	10.5	12.5	17.2	24.7	36.1
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	7.7	10.5	12.3	16.9	24.3	35.4
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	7.7	10.5	12.2	16.7	23.9	34.7

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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 24 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.6	3.1	3.4	4.1	5.2	6.8
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.6	1.8	2.1	2.4	2.7	3.3	3.6	4.3	5.4	7.1
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.7	2.0	2.2	2.5	2.9	3.4	3.8	4.5	5.7	7.3
4	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.1	2.3	2.7	3.1	3.6	4.0	4.7	5.9	7.6
5	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.3	3.8	4.2	5.0	6.2	7.9
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.5	4.1	4.4	5.2	6.5	8.2
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.3	1.5	1.7	1.8	2.0	2.2	2.5	2.8	3.2	3.7	4.3	4.7	5.5	6.8	8.6
8	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.4	3.9	4.5	4.9	5.8	7.1	8.9
9	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.2	3.6	4.1	4.8	5.2	6.1	7.4	9.3
10	0.1	0.2	0.3	0.3	0.5	0.7	0.8	1.0	1.2	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
11	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.6	5.4	5.8	6.8	8.2	10.1
12	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.1	1.3	1.7	2.0	2.3	2.6	2.8	3.1	3.5	3.9	4.3	4.9	5.7	6.1	7.1	8.6	10.6
13	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.0	2.4	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.5	7.5	9.0	11.0
14	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	2.9	3.2	3.6	4.0	4.4	4.9	5.5	6.4	6.8	7.9	9.4	11.5
15	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.0	3.4	3.8	4.2	4.7	5.2	5.9	6.7	7.2	8.3	9.9	12.1
16	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.7	3.2	3.6	4.0	4.5	5.0	5.6	6.2	7.1	7.6	8.8	10.4	12.6
17	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.4	1.8	2.3	2.8	3.3	3.8	4.3	4.8	5.3	5.9	6.6	7.5	8.1	9.3	10.9	13.2
18	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.5	5.1	5.7	6.3	7.0	8.0	8.6	9.8	11.5	13.8
19	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.3	2.9	3.5	4.2	4.8	5.4	6.0	6.7	7.5	8.5	9.0	10.3	12.1	14.5
20	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.3	1.9	2.4	2.9	3.6	4.3	5.0	5.7	6.4	7.1	7.9	9.0	9.6	10.9	12.7	15.2
21	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.7	4.5	5.3	6.1	6.8	7.5	8.4	9.5	10.1	11.5	13.4	15.9
22	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.8	4.6	5.5	6.4	7.2	8.0	8.9	10.1	10.7	12.2	14.1	16.7
23	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.4	3.1	3.9	4.7	5.7	6.7	7.6	8.5	9.5	10.7	11.4	12.8	14.9	17.6
24	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.1	3.9	4.8	5.9	7.0	8.0	9.0	10.1	11.3	12.0	13.6	15.7	18.4
25	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.1	4.0	4.9	6.0	7.3	8.4	9.5	10.7	12.0	12.7	14.3	16.5	19.4
26	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.0	5.0	6.2	7.5	8.8	10.0	11.3	12.7	13.5	15.1	17.4	20.3
27	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	3.0	4.1	5.1	6.3	7.8	9.2	10.6	12.0	13.5	14.3	16.0	18.3	21.4
28	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.0	5.2	6.4	8.0	9.5	11.1	12.6	14.3	15.1	16.9	19.3	22.5
29	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	4.0	5.2	6.5	8.2	9.8	11.6	13.3	15.1	16.0	17.9	20.4	23.6
30	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	5.2	6.6	8.3	10.1	12.0	13.9	15.9	16.9	18.9	21.5	24.8
31	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	6.7	8.5	10.4	12.4	14.6	16.7	17.9	20.0	22.7	26.1
32	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	6.7	8.6	10.6	12.8	15.2	17.6	18.8	21.1	23.9	27.5
33	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	6.7	8.7	10.8	13.2	15.8	18.5	19.7	22.3	25.3	28.9
34	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	4.9	6.7	8.8	11.0	13.5	16.3	19.3	20.7	23.5	26.7	30.5
35	0.1	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	6.6	8.9	11.2	13.7	16.8	20.1	21.7	24.7	28.1	32.1
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	4.6	6.4	8.9	11.3	14.0	17.2	20.8	22.6	25.9	29.7	33.8
37	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	6.3	8.9	11.5	14.3	17.6	21.5	23.5	27.1	31.2	35.6
38	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	4.5	6.1	8.8	11.5	14.5	18.0	22.1	24.3	28.4	32.7	37.5
39	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	11.6	14.7	18.3	22.7	25.0	29.5	34.2	39.5
40	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	5.9	8.3	11.5	14.8	18.6	23.2	25.7	30.5	35.8	41.4
41	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	5.8	8.2	11.3	14.9	18.9	23.7	26.3	31.5	37.5	43.3
42	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	8.0	11.1	14.9	19.2	24.1	26.9	32.5	38.9	45.3
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.8	10.8	14.9	19.4	24.5	27.4	33.3	40.3	47.4
44	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	5.4	7.7	10.6	14.6	19.5	24.9	27.9	34.1	41.6	49.5
45	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	7.6	10.3	14.3	19.5	25.3	28.4	34.8	42.8	51.4
46	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	7.4	10.1	14.0	19.5	25.5	28.8	35.5	44.0	53.2
47	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	7.3	10.0	13.7	19.2	25.8	29.1	36.1	45.0	54.9
48	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	9.8	13.4	18.8	25.8	29.4	36.7	45.9	56.5
49	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	13.2	18.3	25.8	29.6	37.2	46.8	58.0
50	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	6.8	9.4	12.9	18.0	25.5	29.7	37.7	47.6	59.4

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TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	0.8	1.1	1.6	2.3	3.2	4.6	6.6	9.2	12.7	17.6	25.1	29.5	38.1	48.4	60.7
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.2	4.4	6.5	9.0	12.5	17.3	24.4	29.2	38.4	49.1	61.8
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.3	8.8	12.3	17.0	24.0	28.6	38.4	49.7	62.9
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	3.0	4.2	6.1	8.6	12.0	16.8	23.5	27.9	38.3	50.3	63.9
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1	6.0	8.4	11.8	16.5	23.1	27.4	37.9	50.8	64.9
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.9	8.2	11.5	16.2	22.7	26.9	37.2	50.9	65.7
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.8	3.9	5.7	8.0	11.3	15.9	22.4	26.4	36.3	50.9	66.5
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	11.0	15.6	22.1	26.0	35.6	50.5	67.2
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.7	5.4	7.7	10.8	15.3	21.7	25.6	35.0	49.8	67.6
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.8	2.5	3.6	5.3	7.5	10.5	14.9	21.3	25.3	34.4	48.7	67.7
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.5	5.1	7.3	10.3	14.6	20.9	24.9	33.9	47.8	67.5
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.4	3.4	5.0	7.1	10.0	14.3	20.5	24.4	33.4	47.0	66.8
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	3.3	4.9	6.9	9.8	14.0	20.1	23.9	32.9	46.2	65.7
64	0.1	0.1	0.1	0.2	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	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.6	9.4	13.4	19.3	23.0	31.9	44.8	63.2
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	1.6	2.2	3.1	4.6	6.5	9.1	13.1	18.8	22.6	31.3	44.2	62.2
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	2.1	3.0	4.4	6.3	8.9	12.8	18.4	22.1	30.7	43.7	61.2
68	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.3	6.2	8.7	12.5	18.1	21.6	30.2	43.0	60.3
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	2.9	4.2	6.0	8.5	12.2	17.7	21.2	29.6	42.2	59.5
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	4.1	5.9	8.3	11.9	17.3	20.7	29.0	41.5	58.7
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	4.0	5.7	8.2	11.6	17.0	20.3	28.4	40.8	58.0
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	1.5	2.0	2.7	3.9	5.6	8.0	11.4	16.6	19.9	27.8	40.0	57.1
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	1.9	2.7	3.8	5.4	7.8	11.2	16.2	19.5	27.3	39.3	56.2
74	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	1.9	2.6	3.8	5.3	7.6	10.9	15.8	19.1	26.7	38.5	55.2
75	0.1	0.1	0.1	0.2	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	7.4	10.7	15.5	18.6	26.2	37.7	54.3
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	1.9	2.5	3.6	5.1	7.2	10.4	15.1	18.2	25.7	37.0	53.3
77	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.6	5.0	7.0	10.2	14.8	17.8	25.2	36.3	52.3
78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.5	4.9	6.9	9.9	14.6	17.4	24.6	35.6	51.4
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.5	3.5	4.8	6.7	9.7	14.2	17.1	24.1	34.9	50.4
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.9	2.5	3.4	4.7	6.6	9.4	13.9	16.8	23.5	34.3	49.4
81	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.7	6.5	9.2	13.6	16.4	23.0	33.6	48.5
82	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.6	6.4	9.1	13.2	16.0	22.6	32.9	47.6
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.5	6.3	8.9	12.9	15.7	22.2	32.2	46.7
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	2.5	3.4	4.5	6.2	8.7	12.6	15.3	21.7	31.5	45.9
85	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3	4.4	6.1	8.5	12.4	14.9	21.3	30.8	45.1
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	3.3	4.4	6.0	8.4	12.1	14.6	20.8	30.3	44.1
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	4.4	5.9	8.3	11.9	14.3	20.3	29.8	43.2
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	3.3	4.4	5.8	8.2	11.7	14.0	19.8	29.2	42.3
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	4.4	5.8	8.0	11.5	13.7	19.4	28.6	41.5
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	4.3	5.8	7.9	11.3	13.5	19.0	27.9	40.7
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	4.3	5.8	7.8	11.1	13.2	18.6	27.3	40.1
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	5.8	7.8	10.9	13.0	18.3	26.7	39.3
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	5.7	7.7	10.8	12.8	17.9	26.1	38.5
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	5.7	7.7	10.7	12.7	17.6	25.6	37.7
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	5.7	7.7	10.5	12.5	17.3	25.1	36.9
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	5.7	7.6	10.4	12.4	17.1	24.6	36.1
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	7.6	10.4	12.2	16.8	24.2	35.3
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	7.6	10.3	12.1	16.6	23.8	34.6
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	4.6	5.8	7.6	10.3	12.0	16.4	23.4	33.9
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	7.6	10.3	12.0	16.2	23.0	33.4

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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 25 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.7	0.8	0.9	0.9	1.0	1.1	1.3	1.4	1.6	1.8	2.0	2.3	2.7	3.2	3.5	4.2	5.4	7.0
2	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.2	2.5	2.8	3.4	3.7	4.4	5.6	7.2
3	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	3.0	3.6	3.9	4.7	5.8	7.5
4	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9	2.2	2.4	2.8	3.2	3.8	4.1	4.9	6.1	7.8
5	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	2.6	3.0	3.4	4.0	4.3	5.2	6.4	8.1
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.1	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	0.7	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.3	2.6	3.0	3.3	3.8	4.4	4.8	5.7	7.0	8.8
8	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.5	4.1	4.7	5.1	6.0	7.3	9.2
9	0.1	0.2	0.3	0.3	0.5	0.7	0.8	1.0	1.2	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	0.2	0.3	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	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.8	4.3	4.8	5.6	6.0	7.0	8.4	10.4
12	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.5	5.1	5.9	6.4	7.4	8.9	10.9
13	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.4	2.8	3.2	3.5	3.9	4.3	4.8	5.5	6.3	6.7	7.8	9.3	11.4
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.5	3.0	3.4	3.7	4.2	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9
15	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.1	3.5	4.0	4.4	4.9	5.5	6.1	7.0	7.5	8.7	10.3	12.5
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.2	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
17	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	3.9	4.5	5.0	5.6	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	2.3	2.9	3.5	4.1	4.7	5.4	5.9	6.6	7.4	8.3	8.9	10.2	11.9	14.3
19	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.6	4.3	5.0	5.7	6.3	7.0	7.8	8.8	9.4	10.7	12.6	15.0
20	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.4	3.0	3.7	4.4	5.2	6.0	6.7	7.4	8.3	9.4	10.0	11.4	13.2	15.7
21	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.8	2.4	3.0	3.8	4.6	5.4	6.3	7.1	7.9	8.8	9.9	10.6	12.0	13.9	16.5
22	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.8	4.7	5.6	6.6	7.5	8.4	9.4	10.5	11.2	12.7	14.7	17.3
23	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.1	3.9	4.8	5.8	6.9	7.9	8.9	9.9	11.2	11.9	13.4	15.5	18.2
24	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	3.9	4.9	5.9	7.2	8.3	9.4	10.5	11.8	12.6	14.2	16.3	19.1
25	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.0	5.0	6.1	7.5	8.7	9.9	11.2	12.5	13.3	15.0	17.2	20.1
26	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.0	5.0	6.2	7.7	9.1	10.4	11.8	13.3	14.1	15.8	18.1	21.1
27	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.0	5.1	6.3	7.9	9.4	11.0	12.5	14.1	14.9	16.7	19.1	22.2
28	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	4.0	5.2	6.4	8.1	9.7	11.4	13.1	15.0	15.8	17.7	20.2	23.4
29	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	5.2	6.5	8.2	10.0	11.9	13.8	15.7	16.8	18.7	21.3	24.6
30	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	5.1	6.6	8.4	10.3	12.3	14.5	16.6	17.7	19.8	22.5	25.9
31	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.6	3.7	5.1	6.7	8.5	10.5	12.7	15.0	17.4	18.6	20.9	23.7	27.2
32	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	6.7	8.6	10.7	13.0	15.6	18.3	19.5	22.1	25.0	28.7
33	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	6.6	8.8	10.9	13.3	16.1	19.1	20.5	23.3	26.4	30.2
34	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	6.5	8.8	11.0	13.6	16.6	19.9	21.5	24.4	27.9	31.8
35	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	6.3	8.8	11.2	13.9	17.1	20.6	22.4	25.6	29.4	33.5
36	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	4.5	6.2	8.8	11.3	14.1	17.4	21.3	23.3	26.9	30.9	35.3
37	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	6.0	8.7	11.4	14.3	17.8	21.9	24.0	28.1	32.4	37.2
38	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	5.9	8.5	11.4	14.5	18.1	22.5	24.8	29.2	34.0	39.2
39	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	4.2	5.8	8.2	11.4	14.7	18.4	23.0	25.5	30.3	35.6	41.1
40	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.5	2.1	3.0	4.1	5.7	8.1	11.2	14.8	18.7	23.4	26.1	31.3	37.2	43.0
41	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	7.9	10.9	14.8	19.0	23.9	26.6	32.2	38.6	45.0
42	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	5.5	7.7	10.6	14.7	19.2	24.3	27.1	33.0	40.0	47.1
43	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	5.3	7.6	10.4	14.5	19.3	24.7	27.6	33.8	41.2	49.1
44	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.5	10.2	14.1	19.3	25.0	28.1	34.5	42.4	51.0
45	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.3	10.0	13.8	19.2	25.3	28.5	35.1	43.6	52.8
46	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	9.8	13.5	18.9	25.5	28.8	35.8	44.6	54.5
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.8	7.0	9.7	13.2	18.5	25.5	29.1	36.3	45.5	56.0
48	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	3.4	4.7	6.8	9.5	13.0	18.1	25.4	29.3	36.8	46.3	57.5
49	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	6.7	9.3	12.7	17.7	25.2	29.3	37.3	47.2	58.9
50	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	6.5	9.1	12.5	17.4	24.7	29.1	37.7	47.9	60.1

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TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	0.7	1.0	1.5	2.2	3.1	4.4	6.4	8.9	12.3	17.1	24.1	28.7	37.9	48.6	61.2
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	8.7	12.1	16.8	23.6	28.1	37.9	49.2	62.3
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	8.5	11.8	16.5	23.2	27.5	37.8	49.8	63.3
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	8.3	11.6	16.3	22.8	27.0	37.3	50.2	64.2
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	8.1	11.3	16.0	22.4	26.5	36.5	50.3	65.1
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	7.9	11.1	15.6	22.0	26.0	35.7	50.2	65.9
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	7.7	10.8	15.3	21.7	25.6	35.1	49.8	66.5
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	7.5	10.6	15.0	21.3	25.2	34.5	49.0	66.8
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	7.4	10.3	14.7	21.0	24.9	33.9	47.8	66.9
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	7.2	10.1	14.4	20.5	24.4	33.4	47.0	66.5
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	7.0	9.9	14.0	20.1	24.0	32.9	46.2	65.8
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	6.8	9.7	13.7	19.7	23.5	32.4	45.4	64.5
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.7	6.6	9.4	13.4	19.3	23.1	31.9	44.7	63.2
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	1.6	2.2	3.1	4.6	6.5	9.2	13.1	18.9	22.6	31.3	44.1	62.1
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	3.0	4.5	6.3	9.0	12.8	18.5	22.1	30.8	43.5	61.1
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	2.1	2.9	4.3	6.2	8.7	12.6	18.1	21.7	30.2	42.9	60.2
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	2.1	2.9	4.2	6.1	8.5	12.3	17.7	21.2	29.6	42.2	59.3
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	1.5	2.0	2.8	4.1	5.9	8.4	12.0	17.3	20.8	29.0	41.5	58.5
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	1.5	2.0	2.8	4.0	5.7	8.2	11.7	17.0	20.3	28.4	40.8	57.8
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	1.5	2.0	2.7	3.9	5.6	8.0	11.4	16.7	19.9	27.9	40.0	57.0
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	1.5	1.9	2.7	3.8	5.4	7.8	11.2	16.3	19.5	27.3	39.3	56.1
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	2.6	3.8	5.3	7.6	10.9	15.9	19.1	26.7	38.5	55.2
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	2.6	3.7	5.2	7.4	10.7	15.5	18.7	26.2	37.8	54.2
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	3.6	5.1	7.2	10.5	15.1	18.3	25.7	37.0	53.2
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	1.9	2.5	3.6	5.0	7.0	10.2	14.8	17.8	25.2	36.3	52.3
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	1.9	2.5	3.5	4.9	6.9	10.0	14.6	17.4	24.7	35.6	51.3
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	1.9	2.5	3.5	4.8	6.7	9.7	14.3	17.1	24.1	34.9	50.4
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	1.9	2.5	3.4	4.7	6.6	9.5	13.9	16.8	23.6	34.2	49.4
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	1.9	2.5	3.4	4.6	6.5	9.3	13.6	16.4	23.0	33.6	48.5
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	2.4	3.3	4.6	6.3	9.1	13.3	16.1	22.6	32.9	47.6
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	4.5	6.2	8.9	13.0	15.7	22.1	32.2	46.7
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	3.3	4.4	6.1	8.7	12.6	15.3	21.8	31.5	45.8
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	3.3	4.4	6.0	8.5	12.4	14.9	21.3	30.8	45.0
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	4.4	6.0	8.4	12.1	14.6	20.8	30.2	44.1
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	4.4	5.9	8.2	11.9	14.3	20.3	29.7	43.2
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	4.3	5.8	8.1	11.6	14.0	19.9	29.2	42.2
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	4.3	5.7	8.0	11.4	13.7	19.4	28.5	41.4
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	4.3	5.7	7.9	11.2	13.5	19.0	27.9	40.6
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	4.3	5.7	7.8	11.0	13.2	18.6	27.3	39.9
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	4.3	5.7	7.7	10.9	13.0	18.2	26.7	39.2
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	4.3	5.7	7.6	10.7	12.8	17.9	26.1	38.4
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	5.6	7.6	10.6	12.6	17.6	25.5	37.7
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	5.6	7.6	10.5	12.4	17.3	25.0	36.9
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	5.6	7.6	10.3	12.3	17.0	24.6	36.1
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	7.5	10.2	12.1	16.7	24.1	35.3
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	7.5	10.2	12.0	16.5	23.7	34.5
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	5.6	7.5	10.2	11.9	16.3	23.3	33.9
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	7.5	10.2	11.8	16.1	22.9	33.3
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	4.6	5.8	7.5	10.1	11.8	15.9	22.6	32.7
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	7.5	10.1	11.8	15.7	22.3	32.1

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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 26 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.7	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	1.1	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	0.9	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
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.9	3.3	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	1.3	1.4	1.6	1.8	1.9	2.1	2.4	2.7	3.1	3.5	4.1	4.5	5.3	6.6	8.3
6	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	2.9	3.3	3.7	4.4	4.7	5.6	6.9	8.7
7	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.1	3.5	4.0	4.6	5.0	5.9	7.2	9.0
8	0.1	0.2	0.3	0.3	0.5	0.7	0.8	1.0	1.2	1.5	1.7	1.9	2.2	2.4	2.6	2.9	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	1.6	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	1.6	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	1.7	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	1.4	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	1.7	2.1	2.5	2.9	3.3	3.7	4.1	4.5	5.0	5.7	6.5	7.0	8.1	9.6	11.7
14	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.8	2.2	2.6	3.1	3.5	3.9	4.3	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	1.8	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	1.8	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	1.0	1.4	1.8	2.3	2.8	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	1.8	2.3	2.9	3.6	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	1.8	2.3	2.9	3.6	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	0.7	0.9	1.2	1.8	2.3	3.0	3.7	4.5	5.3	6.2	7.0	7.8	8.7	9.8	10.4	11.8	13.7	16.3
21	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.8	4.6	5.5	6.5	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	0.9	1.2	1.7	2.3	3.0	3.8	4.7	5.7	6.8	7.8	8.8	9.8	11.0	11.7	13.2	15.3	18.0
23	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.0	3.9	4.8	5.9	7.1	8.2	9.3	10.4	11.7	12.4	13.9	16.1	18.9
24	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.0	4.9	6.0	7.4	8.6	9.8	11.0	12.4	13.1	14.7	17.0	19.8
25	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.0	5.0	6.1	7.6	9.0	10.3	11.7	13.1	13.9	15.6	17.9	20.9
26	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.9	4.0	5.1	6.3	7.8	9.3	10.8	12.3	13.9	14.7	16.5	18.9	21.9
27	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.9	5.1	6.4	8.0	9.6	11.3	12.9	14.8	15.6	17.4	19.9	23.1
28	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	5.1	6.5	8.1	9.9	11.7	13.6	15.5	16.5	18.5	21.0	24.3
29	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	6.5	8.3	10.1	12.1	14.3	16.4	17.5	19.5	22.2	25.6
30	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	6.6	8.4	10.4	12.5	14.9	17.2	18.4	20.7	23.4	26.9
31	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	6.6	8.6	10.6	12.9	15.4	18.1	19.3	21.9	24.7	28.3
32	0.1	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	6.6	8.7	10.8	13.2	16.0	18.9	20.3	23.0	26.1	29.9
33	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	6.5	8.7	10.9	13.5	16.4	19.7	21.3	24.2	27.6	31.5
34	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	4.5	6.3	8.7	11.2	13.7	16.9	20.4	22.2	25.4	29.1	33.1
35	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	4.4	6.1	8.7	11.2	14.0	17.3	21.1	23.0	26.6	30.6	34.9
36	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	11.3	14.3	17.6	21.7	23.8	27.8	32.1	36.8
37	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	5.8	8.4	11.3	14.4	17.9	22.3	24.5	28.9	33.6	38.8
38	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	4.2	5.7	8.1	11.2	14.5	18.2	22.8	25.2	30.0	35.2	40.7
39	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	5.6	8.0	11.1	14.6	18.5	23.2	25.8	30.9	36.8	42.6
40	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.8	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	1.4	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
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	19.1	24.7	27.8	34.1	42.0	50.5
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	43.2	52.3
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
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	28.8	36.0	45.1	55.5
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
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
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
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

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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 26 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	65.8
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	1.8	2.4	3.3	4.4	6.0	8.5	12.4	15.0	21.3	30.9	45.0
82	0.1	0.1	0.1	0.2	0.2	0.3	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	5.5	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	0.3	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	10.0	11.7	15.6	22.2	32.1
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	9.9	11.6	15.5	21.9	31.5
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	9.9	11.5	15.4	21.7	31.0

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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 27 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.7	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	1.2	1.3	1.4	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.8	4.2	5.0	6.2	7.9
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.0	3.4	4.0	4.4	5.2	6.4	8.2
5	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
6	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
7	0.1	0.2	0.2	0.3	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
8	0.1	0.2	0.2	0.3	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
9	0.1	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	2.9	3.3	3.7	4.1	4.6	5.4	5.8	6.8	8.2	10.1
10	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.3	2.6	2.8	3.1	3.5	3.9	4.4	4.9	5.7	6.1	7.1	8.6	10.6
11	0.1	0.2	0.2	0.3	0.4	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
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	4.4	4.9	5.6	6.4	6.9	7.9	9.4	11.6
13	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.4	1.7	2.1	2.6	3.0	3.4	3.8	4.3	4.7	5.2	5.9	6.8	7.3	8.4	9.9	12.1
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	3.2	3.6	4.1	4.5	5.0	5.6	6.3	7.2	7.7	8.8	10.4	12.7
15	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.2	2.7	3.3	3.8	4.3	4.8	5.4	5.9	6.7	7.6	8.1	9.3	11.0	13.3
16	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.4	4.0	4.5	5.2	5.7	6.3	7.1	8.1	8.6	9.8	11.6	13.9
17	0.1	0.1	0.2	0.2	0.3	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
18	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.6	4.3	5.0	5.8	6.5	7.2	8.0	9.1	9.7	11.0	12.8	15.3
19	0.1	0.1	0.2	0.2	0.3	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
20	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	3.0	3.7	4.6	5.4	6.4	7.3	8.1	9.0	10.2	10.8	12.3	14.2	16.9
21	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	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	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	3.8	4.8	5.8	7.0	8.1	9.1	10.2	11.5	12.2	13.7	15.8	18.6
23	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	3.0	3.9	4.9	5.9	7.3	8.5	9.6	10.9	12.2	12.9	14.5	16.7	19.6
24	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.9	4.9	6.1	7.5	8.8	10.1	11.5	12.9	13.7	15.4	17.6	20.6
25	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.9	5.0	6.2	7.7	9.2	10.7	12.1	13.7	14.5	16.2	18.6	21.6
26	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.9	5.1	6.3	7.9	9.5	11.1	12.8	14.5	15.4	17.2	19.6	22.8
27	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	5.1	6.5	8.0	9.8	11.6	13.4	15.3	16.3	18.2	20.7	24.0
28	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	6.5	8.2	10.0	12.0	14.1	16.1	17.2	19.2	21.9	25.2
29	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	6.5	8.3	10.2	12.4	14.7	17.0	18.1	20.4	23.1	26.6
30	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	4.9	6.5	8.5	10.5	12.7	15.2	17.8	19.1	21.6	24.4	28.0
31	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.4	4.7	6.5	8.6	10.6	13.0	15.8	18.7	20.0	22.7	25.8	29.5
32	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	6.4	8.6	10.8	13.3	16.2	19.4	21.0	23.8	27.2	31.1
33	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	6.2	8.7	11.0	13.6	16.7	20.1	21.9	25.0	28.8	32.7
34	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	8.6	11.2	13.8	17.1	20.8	22.7	26.3	30.2	34.5
35	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	8.5	11.2	14.0	17.4	21.4	23.5	27.5	31.7	36.4
36	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	4.2	5.8	8.3	11.2	14.2	17.8	22.0	24.3	28.6	33.2	38.4
37	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	5.7	8.1	11.1	14.4	18.1	22.5	24.9	29.6	34.8	40.2
38	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	7.9	10.9	14.5	18.3	23.0	25.5	30.6	36.4	42.1
39	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	5.5	7.7	10.7	14.5	18.6	23.4	26.1	31.5	37.8	44.1
40	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	3.8	5.3	7.6	10.4	14.4	18.8	23.8	26.6	32.4	39.2	46.1
41	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.4	10.2	14.1	18.9	24.1	27.1	33.1	40.4	48.2
42	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.3	10.0	13.8	18.9	24.5	27.5	33.8	41.6	50.0
43	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	5.0	7.1	9.8	13.5	18.8	24.8	27.9	34.4	42.7	51.8
44	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	4.8	7.0	9.6	13.2	18.5	24.9	28.2	35.0	43.7	53.5
45	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	3.4	4.7	6.8	9.4	12.9	18.1	25.0	28.5	35.6	44.6	55.0
46	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	6.7	9.3	12.7	17.6	24.9	28.7	36.1	45.4	56.5
47	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	9.1	12.4	17.3	24.6	28.6	36.5	46.2	57.8
48	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	6.3	8.9	12.2	17.0	24.1	28.5	36.9	47.0	59.0
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.7	12.0	16.6	23.5	28.0	37.1	47.6	60.0
50	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	8.5	11.8	16.4	23.0	27.4	37.1	48.2	61.1

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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 27 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.9	8.3	11.5	16.1	22.6	26.8	36.8	48.8	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	8.1	11.3	15.8	22.2	26.3	36.3	49.1	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	7.9	11.0	15.5	21.8	25.8	35.5	49.2	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	7.7	10.8	15.2	21.5	25.3	34.8	49.0	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	7.5	10.5	14.9	21.1	24.9	34.1	48.5	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	7.3	10.3	14.6	20.8	24.6	33.5	47.6	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	7.1	10.0	14.2	20.4	24.2	33.0	46.5	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	7.0	9.8	13.9	20.0	23.7	32.4	45.7	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	6.8	9.6	13.6	19.5	23.3	32.0	44.9	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	6.6	9.4	13.3	19.1	22.8	31.5	44.2	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	6.4	9.1	13.0	18.7	22.4	31.0	43.5	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	6.3	8.9	12.7	18.3	21.9	30.4	42.8	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	6.2	8.7	12.4	17.9	21.5	29.8	42.3	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	6.0	8.5	12.2	17.5	21.0	29.3	41.6	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	4.1	5.8	8.3	11.9	17.1	20.5	28.7	40.9	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	5.7	8.1	11.6	16.8	20.1	28.1	40.2	56.8
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.9	5.5	7.9	11.3	16.4	19.7	27.5	39.5	56.1
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	1.4	1.9	2.6	3.8	5.4	7.7	11.0	16.1	19.3	27.0	38.7	55.3
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	1.4	1.9	2.6	3.7	5.3	7.5	10.8	15.7	18.9	26.4	38.0	54.3
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	1.4	1.9	2.5	3.6	5.1	7.3	10.6	15.3	18.5	25.9	37.3	53.4
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	1.4	1.8	2.5	3.6	5.0	7.1	10.3	15.0	18.0	25.3	36.5	52.5
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.4	1.8	2.5	3.5	4.9	6.9	10.1	14.6	17.6	24.8	35.8	51.5
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	1.8	2.4	3.4	4.8	6.8	9.8	14.3	17.2	24.4	35.1	50.6
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	1.8	2.4	3.4	4.7	6.6	9.6	14.1	16.8	23.8	34.4	49.6
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	3.4	4.6	6.5	9.3	13.7	16.5	23.3	33.7	48.7
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	3.3	4.6	6.4	9.1	13.4	16.2	22.7	33.1	47.7
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	3.3	4.5	6.2	8.9	13.1	15.8	22.2	32.5	46.8
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	3.2	4.4	6.1	8.7	12.8	15.5	21.8	31.7	45.9
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	2.4	3.2	4.4	6.0	8.6	12.5	15.1	21.4	31.0	45.1
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	3.2	4.3	5.9	8.4	12.2	14.7	21.0	30.3	44.3
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	3.2	4.3	5.8	8.2	11.9	14.4	20.5	29.7	43.4
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	3.2	4.2	5.8	8.1	11.7	14.0	20.0	29.2	42.5
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	4.2	5.7	8.0	11.4	13.8	19.6	28.7	41.6
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	4.2	5.6	7.8	11.2	13.5	19.1	28.1	40.7
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	4.2	5.6	7.7	11.0	13.2	18.7	27.5	39.9
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	3.2	4.2	5.6	7.6	10.8	13.0	18.3	26.9	39.2
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	7.5	10.7	12.7	17.9	26.3	38.6
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	2.5	3.2	4.2	5.5	7.4	10.5	12.5	17.6	25.7	37.8
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	5.5	7.4	10.4	12.3	17.2	25.1	37.0
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	5.5	7.4	10.3	12.2	16.9	24.6	36.2
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	7.4	10.1	12.0	16.6	24.1	35.5
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	7.3	10.0	11.9	16.4	23.7	34.7
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	7.3	10.0	11.7	16.2	23.3	33.9
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	7.3	9.9	11.6	15.9	22.8	33.2
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	7.3	9.9	11.5	15.8	22.5	32.6
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	7.3	9.9	11.5	15.6	22.1	32.1
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	7.3	9.8	11.5	15.4	21.8	31.5
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	9.8	11.4	15.2	21.6	31.0
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	7.3	9.8	11.4	15.2	21.3	30.5
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	9.8	11.3	15.2	21.0	30.0

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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 20 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.7	0.8	1.0	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	1.3	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	1.4	1.5	1.7	1.8	2.0	2.3	2.6	2.9	3.4	3.9	4.3	5.1	6.3	8.1
4	0.1	0.2	0.3	0.4	0.5	0.6	0.8	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	4.5	5.4	6.6	8.4
5	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	2.6	2.9	3.3	3.8	4.4	4.8	5.7	6.9	8.8
6	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.1	3.5	4.0	4.7	5.1	6.0	7.3	9.1
7	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.7	3.0	3.3	3.8	4.3	5.0	5.4	6.3	7.6	9.5
8	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	3.6	4.0	4.5	5.2	5.7	6.6	8.0	9.9
9	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	3.4	3.8	4.3	4.8	5.6	6.0	7.0	8.4	10.4
10	0.1	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	5.9	6.3	7.4	8.8	10.9
11	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	3.2	3.5	3.9	4.3	4.8	5.4	6.2	6.7	7.8	9.3	11.4
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	3.0	3.3	3.7	4.2	4.6	5.1	5.8	6.6	7.1	8.2	9.8	11.9
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.7	2.1	2.6	3.1	3.5	4.0	4.4	4.9	5.5	6.1	7.0	7.5	8.7	10.3	12.4
14	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	4.7	5.2	5.8	6.5	7.4	8.0	9.1	10.8	13.0
15	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	5.1	5.6	6.2	6.9	7.9	8.4	9.7	11.4	13.7
16	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.8	3.5	4.1	4.7	5.4	6.0	6.6	7.4	8.4	8.9	10.2	12.0	14.3
17	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	2.9	3.5	4.2	4.9	5.7	6.3	7.0	7.8	8.9	9.5	10.8	12.6	15.0
18	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.6	4.4	5.2	6.0	6.7	7.5	8.3	9.4	10.0	11.4	13.3	15.8
19	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	2.9	3.7	4.5	5.4	6.3	7.1	8.0	8.9	10.0	10.6	12.1	14.0	16.6
20	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.0	3.8	4.6	5.6	6.6	7.5	8.5	9.4	10.6	11.3	12.7	14.8	17.4
21	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	3.8	4.7	5.7	6.9	7.9	8.9	10.0	11.2	12.0	13.5	15.6	18.3
22	0.1	0.1	0.1	0.2	0.3	0.4	0.6	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
23	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	3.9	4.9	6.0	7.4	8.7	10.0	11.3	12.7	13.4	15.1	17.3	20.2
24	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	2.8	3.9	4.9	6.1	7.6	9.0	10.5	11.9	13.4	14.2	16.0	18.3	21.3
25	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	5.0	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	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.0	6.3	8.0	9.6	11.4	13.2	15.1	16.0	17.9	20.4	23.6
27	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	5.0	6.5	8.1	9.9	11.8	13.9	15.9	16.9	18.9	21.5	24.8
28	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	5.0	6.5	8.2	10.1	12.2	14.5	16.7	17.8	20.0	22.7	26.2
29	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	6.5	8.4	10.3	12.6	15.0	17.6	18.8	21.2	24.0	27.6
30	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	6.4	8.5	10.5	12.9	15.6	18.4	19.7	22.4	25.4	29.0
31	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	6.4	8.6	10.7	13.1	16.0	19.2	20.7	23.5	26.8	30.6
32	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	4.5	6.2	8.6	10.8	13.4	16.5	19.9	21.6	24.7	28.3	32.3
33	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	6.0	8.5	11.0	13.7	16.9	20.6	22.4	25.9	29.8	34.0
34	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	5.9	8.4	11.1	13.9	17.2	21.2	23.2	27.1	31.3	35.9
35	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	4.2	5.7	8.2	11.1	14.1	17.6	21.8	24.0	28.2	32.8	37.8
36	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.1	5.6	8.0	11.0	14.2	17.9	22.3	24.6	29.3	34.4	39.7
37	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.8	10.9	14.3	18.1	22.7	25.3	30.3	36.0	41.6
38	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	10.6	14.3	18.4	23.1	25.8	31.2	37.4	43.6
39	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	5.3	7.5	10.3	14.2	18.6	23.5	26.3	32.0	38.7	45.6
40	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	5.2	7.3	10.1	14.0	18.7	23.9	26.8	32.8	40.0	47.7
41	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	13.7	18.7	24.2	27.2	33.4	41.2	49.5
42	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	7.1	9.7	13.3	18.6	24.5	27.6	34.1	42.3	51.2
43	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	13.0	18.3	24.7	27.9	34.7	43.3	52.9
44	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	6.8	9.3	12.8	17.9	24.7	28.2	35.2	44.1	54.4
45	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	12.5	17.5	24.6	28.4	35.7	45.0	55.9
46	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	6.4	9.0	12.3	17.1	24.3	28.3	36.1	45.8	57.2
47	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	12.1	16.8	23.8	28.2	36.5	46.5	58.4
48	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	8.6	11.9	16.5	23.2	27.7	36.7	47.1	59.4
49	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	11.6	16.2	22.8	27.1	36.7	47.7	60.5
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.2	11.4	15.9	22.3	26.5	36.4	48.3	61.5

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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 20 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	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	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	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	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	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	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	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	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	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	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	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	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	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.7	4.0	5.8	8.1	11.7	16.9	20.3	28.3	40.4	56.9
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	1.4	1.9	2.7	3.9	5.6	8.0	11.4	16.6	19.8	27.7	39.7	56.1
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	1.4	1.9	2.6	3.8	5.5	7.8	11.1	16.2	19.4	27.1	38.9	55.4
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.8	2.5	3.7	5.2	7.4	10.6	15.5	18.6	26.0	37.5	53.6
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	1.4	1.8	2.5	3.6	5.1	7.2	10.4	15.1	18.2	25.5	36.7	52.7
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	1.4	1.8	2.5	3.5	4.9	7.0	10.2	14.7	17.8	25.0	36.0	51.7
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	1.4	1.8	2.4	3.5	4.8	6.8	9.9	14.4	17.3	24.5	35.3	50.8
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	1.8	2.4	3.4	4.7	6.7	9.7	14.1	16.9	24.0	34.6	49.8
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	1.8	2.4	3.4	4.6	6.5	9.4	13.8	16.6	23.4	33.9	48.9
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	1.8	2.4	3.3	4.6	6.4	9.2	13.5	16.3	22.9	33.2	48.0
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	1.8	2.4	3.3	4.5	6.3	9.0	13.2	15.9	22.4	32.6	47.0
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	3.2	4.4	6.1	8.8	12.9	15.6	21.9	32.0	46.1
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	2.3	3.2	4.4	6.0	8.6	12.6	15.2	21.5	31.2	45.2
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	3.2	4.3	5.9	8.4	12.3	14.8	21.1	30.5	44.4
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	3.2	4.2	5.8	8.3	12.0	14.5	20.6	29.9	43.6
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	3.2	4.2	5.8	8.1	11.7	14.1	20.2	29.2	42.8
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	2.3	3.1	4.2	5.7	8.0	11.5	13.8	19.7	28.7	41.8
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	2.3	3.1	4.2	5.6	7.8	11.3	13.5	19.2	28.2	40.9
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	4.2	5.5	7.7	11.0	13.3	18.8	27.6	40.1
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	4.1	5.5	7.6	10.8	13.0	18.4	27.0	39.3
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	3.1	4.1	5.5	7.5	10.7	12.8	18.0	26.4	38.6
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	5.5	7.4	10.5	12.5	17.6	25.8	37.9
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	5.5	7.3	10.4	12.3	17.3	25.2	37.2
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	3.2	4.1	5.4	7.3	10.2	12.2	17.0	24.7	36.4
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	5.4	7.3	10.1	12.0	16.7	24.2	35.6
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	5.4	7.3	10.0	11.8	16.4	23.7	34.9
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	5.4	7.2	9.9	11.7	16.1	23.3	34.1
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	7.2	9.8	11.5	15.9	22.9	33.4
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	4.3	5.4	7.2	9.8	11.4	15.7	22.5	32.7
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	7.2	9.8	11.4	15.5	22.1	32.1
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	7.2	9.7	11.4	15.3	21.8	31.5
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	7.2	9.7	11.3	15.1	21.5	31.0
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	9.7	11.3	15.0	21.2	30.5
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	9.7	11.2	15.0	21.0	30.0
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	9.7	11.2	15.0	20.7	29.6
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	4.6	5.8	7.4	9.7	11.2	14.9	20.5	29.2

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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 29 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.4	2.7	3.1	3.6	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	1.2	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	0.9	1.1	1.3	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.5	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	0.5	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.1	2.4	2.6	2.9	3.3	3.7	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	0.5	0.7	1.0	1.4	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	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.2	2.8	3.4	4.0	4.6	5.2	5.8	6.4	7.2	8.2	8.8	10.0	11.7	14.1
16	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.3	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	0.2	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	8.2	9.2	9.8	11.2	13.0	15.5
18	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	2.9	3.7	4.4	5.3	6.2	7.0	7.8	8.7	9.8	10.4	11.8	13.7	16.3
19	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	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	8.8	9.8	11.0	11.7	13.2	15.3	18.0
21	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.8	4.7	5.8	7.0	8.2	9.3	10.4	11.7	12.4	14.0	16.1	18.9
22	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	3.9	4.8	5.9	7.3	8.6	9.8	11.1	12.4	13.2	14.8	17.0	19.9
23	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.9	4.9	6.0	7.5	8.9	10.3	11.7	13.2	14.0	15.7	18.0	20.9
24	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	4.9	6.1	7.7	9.2	10.8	12.3	14.0	14.8	16.6	19.0	22.0
25	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	5.0	6.2	7.9	9.5	11.2	13.0	14.8	15.7	17.6	20.0	23.2
26	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	5.0	6.3	8.0	9.8	11.7	13.6	15.6	16.7	18.6	21.1	24.4
27	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	4.9	6.4	8.2	10.0	12.0	14.2	16.4	17.5	19.7	22.3	25.7
28	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.4	8.3	10.2	12.4	14.8	17.3	18.5	20.8	23.6	27.1
29	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.4	8.4	10.4	12.7	15.3	18.1	19.4	22.0	24.9	28.6
30	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.3	8.5	10.6	13.0	15.8	18.9	20.4	23.1	26.4	30.1
31	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.4	6.2	8.5	10.7	13.3	16.3	19.6	21.3	24.3	27.9	31.8
32	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	4.3	6.0	8.5	10.9	13.5	16.7	20.3	22.1	25.5	29.3	33.5
33	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	5.8	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	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.2	5.7	8.2	11.0	13.9	17.4	21.5	23.7	27.8	32.3	37.3
35	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	5.6	7.9	10.9	14.1	17.7	22.0	24.3	28.9	33.9	39.2
36	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.8	10.8	14.2	17.9	22.4	25.0	29.9	35.5	41.0
37	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	5.4	7.6	10.5	14.2	18.2	22.9	25.5	30.8	36.9	43.0
38	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	7.4	10.2	14.1	18.4	23.3	26.0	31.6	38.2	45.0
39	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	7.3	10.0	13.9	18.5	23.6	26.5	32.4	39.5	47.1
40	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	9.8	13.6	18.5	24.0	26.9	33.1	40.7	48.9
41	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.9	7.0	9.6	13.2	18.4	24.2	27.3	33.7	41.8	50.6
42	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	9.4	12.9	18.2	24.4	27.6	34.3	42.8	52.3
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.4	3.3	4.6	6.7	9.3	12.7	17.7	24.5	27.9	34.8	43.7	53.8
44	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	9.1	12.4	17.3	24.4	28.1	35.3	44.5	55.3
45	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	8.9	12.2	17.0	24.1	28.1	35.8	45.3	56.6
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.7	12.0	16.6	23.6	27.9	36.1	46.0	57.7
47	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	8.5	11.8	16.3	23.0	27.5	36.3	46.6	58.8
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.3	11.5	16.0	22.5	26.8	36.3	47.2	59.9
49	0.1	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	4.0	5.8	8.1	11.3	15.8	22.1	26.2	36.1	47.8	60.8
50	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	7.9	11.0	15.5	21.7	25.7	35.6	48.1	61.7

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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 29 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.8	5.4	7.7	11.0	16.0	19.2	26.8	38.5	54.7
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	1.4	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.4	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	0.2	0.2	0.3	0.4	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	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.1	4.1	5.6	7.8	11.3	13.6	19.4	28.3	41.2
81	0.1	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	4.1	5.5	7.7	11.1	13.3	19.0	27.8	40.3
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	4.1	5.5	7.6	10.9	13.1	18.5	27.2	39.5
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	4.1	5.4	7.5	10.7	12.8	18.1	26.6	38.7
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	4.1	5.4	7.4	10.5	12.6	17.7	26.0	38.0
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	4.1	5.4	7.3	10.4	12.4	17.4	25.4	37.4
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	4.1	5.4	7.2	10.2	12.2	17.0	24.9	36.6
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	4.1	5.3	7.2	10.1	12.0	16.7	24.3	35.9
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	4.1	5.3	7.2	10.0	11.8	16.4	23.8	35.1
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	5.3	7.2	9.8	11.7	16.1	23.4	34.3
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	7.1	9.7	11.5	15.9	23.0	33.5
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	7.1	9.7	11.4	15.7	22.5	32.8
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	7.1	9.7	11.3	15.5	22.1	32.2
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	7.1	9.7	11.2	15.3	21.8	31.6
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	7.1	9.6	11.2	15.1	21.5	31.1
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	9.6	11.2	14.9	21.2	30.5
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	9.5	11.1	14.8	20.9	30.0
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	9.5	11.1	14.8	20.7	29.6
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	4.5	5.7	7.3	9.5	11.1	14.8	20.4	29.2
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	11.1	14.7	20.2	28.8
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	11.1	14.7	20.1	28.4

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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 30 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	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	2.4	2.8	3.2	3.8	4.1	4.9	6.1	7.8
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	2.6	2.9	3.4	4.0	4.3	5.1	6.4	8.1
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	2.8	3.1	3.6	4.2	4.6	5.4	6.7	8.4
4	0.1	0.2	0.3	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.7	1.9	2.1	2.4	2.7	3.0	3.3	3.8	4.5	4.8	5.7	7.0	8.8
5	0.1	0.2	0.2	0.3	0.5	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
6	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	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6
7	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	3.6	4.0	4.6	5.3	5.7	6.7	8.1	10.0
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	2.5	2.8	3.1	3.5	3.8	4.3	4.9	5.6	6.1	7.0	8.5	10.5
9	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.4	8.9	10.9
10	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.7	2.0	2.4	2.8	3.2	3.5	3.9	4.4	4.9	5.5	6.3	6.8	7.8	9.4	11.4
11	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	9.8	12.0
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	3.1	3.6	4.0	4.5	5.0	5.5	6.2	7.1	7.6	8.8	10.4	12.6
13	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.2	2.7	3.2	3.8	4.3	4.8	5.3	5.9	6.6	7.5	8.1	9.2	10.9	13.2
14	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.2	2.7	3.3	3.9	4.5	5.1	5.7	6.3	7.0	8.0	8.6	9.8	11.5	13.8
15	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.2	2.8	3.4	4.1	4.8	5.4	6.0	6.7	7.5	8.5	9.1	10.3	12.1	14.5
16	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.5	4.2	5.0	5.7	6.4	7.1	8.0	9.0	9.6	10.9	12.8	15.2
17	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.3	2.9	3.6	4.4	5.2	6.1	6.8	7.6	8.5	9.6	10.2	11.6	13.5	16.0
18	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.9	3.7	4.5	5.4	6.4	7.2	8.1	9.0	10.1	10.8	12.2	14.2	16.8
19	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.7	4.6	5.6	6.7	7.6	8.6	9.6	10.8	11.5	12.9	15.0	17.6
20	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	5.7	6.9	8.0	9.1	10.2	11.4	12.1	13.7	15.8	18.6
21	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	4.8	5.8	7.2	8.4	9.6	10.8	12.1	12.9	14.5	16.7	19.5
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	3.8	4.8	6.0	7.4	8.8	10.1	11.4	12.9	13.7	15.3	17.6	20.5
23	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	4.9	6.1	7.6	9.1	10.6	12.1	13.7	14.5	16.2	18.6	21.6
24	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	6.2	7.8	9.4	11.1	12.7	14.5	15.4	17.2	19.6	22.8
25	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	6.3	7.9	9.6	11.5	13.4	15.3	16.3	18.2	20.7	24.0
26	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.6	4.9	6.3	8.1	9.9	11.9	14.0	16.1	17.2	19.3	21.9	25.3
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	6.4	8.2	10.1	12.2	14.6	17.0	18.1	20.4	23.2	26.6
28	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	6.3	8.3	10.3	12.6	15.1	17.8	19.1	21.6	24.5	28.1
29	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	4.5	6.3	8.4	10.5	12.8	15.6	18.6	20.0	22.7	25.9	29.6
30	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	8.4	10.6	13.1	16.1	19.3	21.0	23.9	27.4	31.2
31	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	4.3	6.0	8.4	10.7	13.3	16.5	20.0	21.8	25.1	28.9	32.9
32	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	8.3	10.9	13.6	16.8	20.6	22.6	26.3	30.3	34.7
33	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	5.7	8.1	10.9	13.7	17.1	21.2	23.3	27.4	31.8	36.7
34	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	5.5	7.9	10.8	13.9	17.5	21.7	24.0	28.5	33.3	38.6
35	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	5.4	7.7	10.7	14.0	17.7	22.2	24.7	29.5	34.9	40.4
36	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	5.3	7.5	10.5	14.1	18.0	22.6	25.2	30.4	36.4	42.3
37	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	5.2	7.4	10.2	14.0	18.2	23.0	25.7	31.2	37.7	44.3
38	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	7.2	9.9	13.8	18.3	23.4	26.2	32.0	39.0	46.4
39	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	5.0	7.1	9.7	13.5	18.4	23.7	26.6	32.7	40.2	48.2
40	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	7.0	9.5	13.1	18.3	24.0	27.0	33.3	41.3	50.0
41	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	4.7	6.8	9.3	12.8	18.0	24.2	27.3	33.9	42.3	51.6
42	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	6.7	9.2	12.6	17.6	24.3	27.6	34.5	43.2	53.2
43	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	17.2	24.2	27.8	34.9	44.0	54.6
44	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	6.3	8.8	12.1	16.8	23.9	27.8	35.4	44.8	55.9
45	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	6.2	8.6	11.9	16.5	23.4	27.6	35.8	45.5	57.1
46	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	16.2	22.8	27.2	36.0	46.2	58.2
47	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	11.4	15.9	22.4	26.6	36.0	46.7	59.2
48	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	8.0	11.2	15.6	21.9	26.0	35.8	47.3	60.2
49	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	15.4	21.5	25.5	35.3	47.6	61.0
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.7	15.0	21.1	25.0	34.5	47.7	61.9

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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 30 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.5	13.5	19.3	23.0	31.4	44.2	62.8
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	1.6	2.2	3.1	4.6	6.5	9.2	13.2	18.9	22.5	30.9	43.4	61.9
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.1	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.8	2.3	3.3	4.5	6.4	9.2	13.5	16.1	22.8	33.0	47.7
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	1.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.3	3.1	4.2	5.9	8.4	12.2	14.8	20.9	30.4	44.1
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	2.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.4	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	0.2	0.2	0.3	0.4	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	0.2	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	5.5	7.6	10.9	13.2	18.7	27.4	39.8
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	2.3	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	0.2	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	5.4	7.4	10.5	12.6	17.8	26.3	38.2
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	3.1	4.0	5.4	7.3	10.4	12.4	17.5	25.7	37.5
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	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	0.2	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	5.3	7.2	10.1	12.0	16.8	24.5	36.1
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	4.0	5.3	7.1	10.0	11.8	16.5	24.0	35.4
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	5.3	7.1	9.8	11.7	16.2	23.5	34.6
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	2.5	3.2	4.1	5.3	7.1	9.7	11.5	15.9	23.1	33.8
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	5.3	7.1	9.6	11.4	15.7	22.6	33.1
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	7.0	9.6	11.2	15.5	22.2	32.4
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	7.0	9.6	11.1	15.3	21.8	31.8
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	7.0	9.5	11.1	15.1	21.5	31.2
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	7.0	9.5	11.1	14.9	21.2	30.7
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	9.4	11.1	14.7	20.9	30.1
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	9.4	11.0	14.7	20.7	29.6
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	9.4	10.9	14.6	20.4	29.2
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	5.7	7.2	9.4	10.9	14.6	20.2	28.8
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	10.9	14.6	20.0	28.4
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	10.9	14.5	19.8	28.1
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	14.4	19.8	27.8

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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 31 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	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	2.5	2.9	3.3	3.9	4.2	5.0	6.2	7.9
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	2.7	3.0	3.5	4.1	4.5	5.3	6.5	8.3
3	0.1	0.2	0.3	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	5.6	6.8	8.6
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	3.1	3.5	4.0	4.6	5.0	5.9	7.2	9.0
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	3.3	3.7	4.2	4.9	5.3	6.2	7.5	9.4
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	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
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	3.7	4.2	4.7	5.5	5.9	6.9	8.3	10.2
8	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	5.0	5.8	6.2	7.3	8.7	10.7
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	4.3	4.7	5.4	6.2	6.6	7.7	9.2	11.2
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	4.5	5.1	5.7	6.5	7.0	8.1	9.6	11.7
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	3.0	3.5	3.9	4.4	4.8	5.4	6.1	6.9	7.4	8.5	10.1	12.3
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	5.2	5.7	6.5	7.3	7.9	9.0	10.7	12.9
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	5.5	6.1	6.9	7.8	8.3	9.5	11.2	13.5
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	5.9	6.5	7.3	8.3	8.8	10.1	11.8	14.2
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	6.3	6.9	7.8	8.8	9.4	10.7	12.5	14.9
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	4.3	5.1	5.9	6.7	7.4	8.3	9.3	9.9	11.3	13.2	15.7
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	4.4	5.3	6.2	7.0	7.9	8.8	9.9	10.5	11.9	13.9	16.4
18	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.7	4.5	5.5	6.5	7.4	8.4	9.3	10.5	11.2	12.6	14.6	17.3
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	6.8	7.9	8.9	9.9	11.2	11.9	13.4	15.5	18.2
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	7.1	8.2	9.4	10.6	11.9	12.6	14.2	16.3	19.1
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	7.3	8.6	9.9	11.2	12.6	13.4	15.0	17.2	20.1
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	4.9	6.0	7.5	8.9	10.4	11.8	13.4	14.2	15.9	18.2	21.2
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	9.2	10.9	12.5	14.2	15.0	16.8	19.2	22.3
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	9.5	11.3	13.1	15.0	16.0	17.8	20.3	23.5
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	9.7	11.7	13.8	15.8	16.9	18.9	21.5	24.8
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	9.9	12.1	14.3	16.6	17.8	20.0	22.7	26.1
27	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	6.3	8.2	10.2	12.4	14.9	17.5	18.7	21.2	24.0	27.5
28	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	4.5	6.2	8.3	10.3	12.7	15.4	18.3	19.7	22.3	25.4	29.0
29	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	8.4	10.5	12.9	15.8	19.0	20.6	23.4	26.8	30.6
30	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	4.3	5.9	8.3	10.6	13.2	16.2	19.7	21.5	24.6	28.3	32.3
31	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	8.3	10.7	13.4	16.6	20.3	22.3	25.9	29.8	34.1
32	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	5.7	8.1	10.8	13.6	16.9	20.9	23.0	27.0	31.2	36.0
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.8	13.8	17.3	21.5	23.7	28.1	32.8	37.9
34	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.7	10.6	13.9	17.5	21.9	24.3	29.1	34.4	39.7
35	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5	10.4	13.9	17.8	22.3	24.9	30.0	35.8	41.7
36	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.3	10.1	13.9	18.0	22.8	25.4	30.8	37.2	43.6
37	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.2	9.9	13.7	18.2	23.1	25.9	31.6	38.5	45.7
38	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	5.0	7.1	9.7	13.4	18.2	23.4	26.3	32.3	39.7	47.5
39	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	4.8	6.9	9.5	13.0	18.1	23.7	26.7	32.9	40.8	49.3
40	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	4.7	6.8	9.3	12.8	17.9	24.0	27.1	33.5	41.8	51.0
41	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	6.6	9.1	12.5	17.5	24.0	27.4	34.1	42.7	52.5
42	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	8.9	12.2	17.1	24.0	27.6	34.6	43.5	54.0
43	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	4.3	6.3	8.8	12.0	16.7	23.7	27.6	35.0	44.3	55.3
44	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	8.6	11.8	16.4	23.3	27.4	35.4	45.0	56.5
45	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	11.6	16.1	22.7	27.0	35.6	45.7	57.5
46	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	15.8	22.2	26.4	35.6	46.3	58.6
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.3	2.0	2.7	3.9	5.7	8.0	11.1	15.5	21.8	25.8	35.5	46.8	59.6
48	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	5.5	7.8	10.9	15.2	21.3	25.3	35.0	47.1	60.4
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.8	2.6	3.7	5.4	7.6	10.6	14.9	21.0	24.8	34.2	47.2	61.2
50	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	3.6	5.3	7.4	10.4	14.6	20.6	24.4	33.4	47.1	61.9

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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 31 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.8	1.2	1.7	2.5	3.5	5.1	7.2	10.1	14.3	20.3	23.9	32.8	46.6	62.5
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	3.4	5.0	7.0	9.9	14.0	19.9	23.6	32.2	45.8	62.7
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	3.3	4.8	6.9	9.6	13.7	19.5	23.2	31.6	44.7	62.6
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	3.2	4.7	6.7	9.4	13.4	19.1	22.8	31.1	43.8	62.2
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	3.1	4.6	6.5	9.2	13.0	18.7	22.3	30.6	43.1	61.3
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	3.0	4.5	6.3	9.0	12.7	18.3	21.9	30.2	42.3	59.9
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.8	1.1	1.5	2.1	2.9	4.4	6.1	8.7	12.4	17.9	21.4	29.6	41.6	58.8
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	2.9	4.2	6.0	8.5	12.2	17.5	21.0	29.1	41.0	57.8
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	2.0	2.8	4.1	5.9	8.3	11.9	17.1	20.5	28.5	40.4	56.8
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	2.7	4.0	5.7	8.1	11.6	16.7	20.0	28.0	39.8	55.9
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	1.4	1.9	2.7	3.9	5.6	7.9	11.3	16.4	19.6	27.4	39.1	55.1
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	2.6	3.8	5.4	7.7	11.0	16.0	19.2	26.8	38.4	54.3
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	2.5	3.7	5.3	7.5	10.7	15.7	18.7	26.2	37.7	53.6
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	1.4	1.8	2.5	3.6	5.1	7.3	10.5	15.3	18.3	25.7	36.9	52.7
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	1.3	1.8	2.5	3.5	5.0	7.1	10.3	14.9	18.0	25.1	36.2	51.8
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	1.8	2.4	3.5	4.9	7.0	10.1	14.5	17.6	24.6	35.5	50.9
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	1.8	2.4	3.4	4.8	6.8	9.8	14.2	17.1	24.1	34.7	50.0
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	1.8	2.3	3.3	4.7	6.6	9.6	13.9	16.7	23.6	34.0	49.0
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	1.7	2.3	3.3	4.6	6.4	9.3	13.6	16.3	23.1	33.3	48.1
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.3	3.2	4.5	6.3	9.1	13.3	16.0	22.6	32.6	47.1
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	2.3	3.2	4.4	6.2	8.8	13.0	15.7	22.0	32.0	46.2
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	1.3	1.7	2.3	3.1	4.3	6.0	8.6	12.7	15.3	21.5	31.4	45.3
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	1.7	2.3	3.1	4.3	5.9	8.4	12.4	15.0	21.1	30.7	44.4
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	2.3	3.1	4.2	5.8	8.3	12.1	14.6	20.6	30.0	43.6
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	2.3	3.1	4.1	5.7	8.1	11.8	14.3	20.3	29.3	42.7
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	2.3	3.1	4.1	5.6	7.9	11.5	13.9	19.8	28.7	42.0
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	2.3	3.1	4.1	5.5	7.8	11.3	13.6	19.4	28.1	41.1
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	3.0	4.0	5.5	7.7	11.0	13.3	18.9	27.6	40.2
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	4.0	5.4	7.5	10.8	13.0	18.5	27.1	39.3
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	4.0	5.3	7.4	10.6	12.7	18.0	26.5	38.5
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	4.0	5.3	7.3	10.4	12.5	17.6	25.9	37.7
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	3.0	4.0	5.3	7.2	10.2	12.3	17.2	25.4	37.1
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	4.0	5.3	7.1	10.1	12.0	16.9	24.8	36.4
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	3.1	4.0	5.3	7.1	10.0	11.9	16.6	24.2	35.7
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	4.0	5.2	7.0	9.8	11.7	16.3	23.7	34.9
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	3.2	4.0	5.2	7.1	9.7	11.5	16.0	23.2	34.2
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	5.2	7.0	9.6	11.4	15.7	22.8	33.4
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	7.0	9.5	11.2	15.5	22.4	32.6
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	6.9	9.5	11.1	15.3	21.9	32.0
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	5.2	6.9	9.5	11.0	15.1	21.6	31.4
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	6.9	9.4	11.0	14.9	21.2	30.8
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	9.4	11.0	14.7	20.9	30.3
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	9.3	10.9	14.6	20.7	29.7
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	9.3	10.9	14.5	20.4	29.3
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	9.3	10.8	14.5	20.2	28.8
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	7.1	9.3	10.8	14.5	19.9	28.4
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	10.8	14.4	19.7	28.1
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	10.8	14.3	19.6	27.8
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	14.2	19.6	27.4
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	14.2	19.6	27.1

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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 32 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.1	2.3	2.6	3.0	3.4	4.0	4.3	5.1	6.4	8.1
2	0.1	0.2	0.3	0.3	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.5	2.8	3.2	3.6	4.2	4.6	5.4	6.7	8.5
3	0.1	0.2	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.6	1.8	1.9	2.1	2.4	2.7	3.0	3.4	3.8	4.5	4.8	5.7	7.0	8.8
4	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.8	3.2	3.6	4.1	4.7	5.1	6.0	7.3	9.2
5	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.7	9.6
6	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.5	1.8	2.1	2.4	2.6	2.9	3.3	3.6	4.1	4.6	5.3	5.7	6.7	8.1	10.0
7	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.6	6.1	7.1	8.5	10.5
8	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	6.0	6.4	7.5	8.9	11.0
9	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.4	6.8	7.9	9.4	11.5
10	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.4	3.8	4.2	4.7	5.2	5.9	6.7	7.2	8.3	9.9	12.0
11	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.7	2.1	2.6	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	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.2	3.8	4.3	4.9	5.4	5.9	6.7	7.6	8.1	9.3	11.0	13.2
13	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.2	2.7	3.3	3.9	4.5	5.2	5.7	6.3	7.1	8.1	8.6	9.8	11.6	13.9
14	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.1	10.4	12.2	14.6
15	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.8	3.5	4.2	5.0	5.8	6.5	7.2	8.0	9.1	9.7	11.0	12.9	15.3
16	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	2.9	3.6	4.4	5.2	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.1
17	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	2.9	3.6	4.5	5.4	6.4	7.3	8.2	9.1	10.3	10.9	12.3	14.3	16.9
18	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.7	4.6	5.5	6.7	7.7	8.7	9.7	10.9	11.6	13.1	15.1	17.8
19	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.9	3.7	4.6	5.7	6.9	8.1	9.1	10.3	11.6	12.3	13.8	16.0	18.7
20	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.8	4.7	5.8	7.2	8.4	9.7	10.9	12.3	13.0	14.7	16.9	19.7
21	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.8	4.8	5.9	7.4	8.8	10.2	11.6	13.1	13.8	15.5	17.8	20.8
22	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.8	6.0	7.5	9.1	10.6	12.2	13.9	14.7	16.4	18.8	21.9
23	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.7	4.9	6.1	7.7	9.4	11.1	12.8	14.7	15.6	17.4	19.9	23.0
24	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.2	7.9	9.6	11.5	13.5	15.5	16.5	18.5	21.0	24.3
25	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.5	3.5	4.8	6.3	8.0	9.8	11.9	14.1	16.3	17.4	19.6	22.2	25.6
26	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	6.3	8.1	10.0	12.2	14.6	17.1	18.3	20.7	23.5	27.0
27	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.5	6.2	8.2	10.2	12.5	15.1	18.0	19.3	21.9	24.8	28.5
28	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	6.1	8.2	10.4	12.8	15.6	18.7	20.2	23.0	26.3	30.0
29	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.1	10.5	13.0	16.0	19.4	21.1	24.2	27.8	31.7
30	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.2	10.6	13.2	16.4	20.0	21.9	25.4	29.2	33.4
31	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.1	10.7	13.4	16.7	20.6	22.7	26.5	30.7	35.3
32	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.7	13.6	17.0	21.2	23.4	27.6	32.2	37.2
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.7	10.6	13.8	17.3	21.6	24.0	28.6	33.7	39.0
34	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5	10.4	13.8	17.6	22.1	24.6	29.5	35.2	40.9
35	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.3	10.1	13.8	17.8	22.5	25.1	30.4	36.6	42.9
36	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.1	7.2	9.8	13.6	18.0	22.9	25.6	31.2	37.9	44.9
37	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.9	7.0	9.6	13.4	18.0	23.2	26.0	31.9	39.1	46.8
38	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.8	6.9	9.4	13.0	18.0	23.5	26.4	32.5	40.2	48.6
39	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.7	6.7	9.2	12.7	17.8	23.7	26.8	33.1	41.3	50.3
40	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.6	6.6	9.1	12.4	17.5	23.8	27.1	33.7	42.2	51.8
41	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.2	4.4	6.4	8.9	12.2	17.0	23.8	27.3	34.2	43.0	53.3
42	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.3	8.7	11.9	16.6	23.6	27.3	34.6	43.8	54.6
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1	8.5	11.7	16.3	23.1	27.2	35.0	44.5	55.8
44	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.3	11.5	16.0	22.5	26.9	35.3	45.2	56.9
45	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.1	11.3	15.7	22.1	26.3	35.3	45.8	57.9
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.9	5.6	7.9	11.0	15.4	21.6	25.6	35.2	46.3	58.9
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.8	5.5	7.7	10.8	15.1	21.2	25.1	34.7	46.7	59.8
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.6	3.6	5.4	7.5	10.5	14.8	20.8	24.6	34.0	46.8	60.6
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.2	1.8	2.5	3.5	5.2	7.3	10.3	14.5	20.5	24.2	33.2	46.7	61.3
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.5	5.1	7.1	10.0	14.2	20.2	23.8	32.6	46.2	61.9

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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 32 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.2	1.7	2.4	3.4	4.9	7.0	9.8	13.9	19.8	23.4	32.0	45.4	62.1
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	2.3	3.3	4.8	6.8	9.5	13.6	19.4	23.0	31.4	44.3	62.1
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	2.2	3.2	4.7	6.6	9.3	13.3	19.0	22.6	30.9	43.5	61.7
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	2.2	3.1	4.6	6.4	9.1	12.9	18.6	22.1	30.4	42.7	60.8
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	2.1	3.0	4.4	6.3	8.9	12.6	18.2	21.7	29.9	42.0	59.5
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	1.5	2.1	2.9	4.3	6.1	8.7	12.3	17.8	21.2	29.4	41.3	58.3
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	2.0	2.8	4.2	6.0	8.4	12.1	17.4	20.8	28.8	40.6	57.3
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	1.4	2.0	2.8	4.1	5.8	8.2	11.8	17.0	20.3	28.3	40.1	56.3
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	1.9	2.7	4.0	5.7	8.0	11.5	16.6	19.9	27.7	39.5	55.4
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	2.6	3.9	5.5	7.8	11.2	16.2	19.4	27.1	38.8	54.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.4	1.9	2.6	3.8	5.4	7.6	10.9	15.9	19.0	26.6	38.0	53.8
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	1.3	1.8	2.5	3.7	5.2	7.5	10.6	15.5	18.6	26.0	37.3	53.1
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	2.5	3.6	5.1	7.3	10.4	15.2	18.2	25.4	36.6	52.2
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	1.3	1.8	2.4	3.5	4.9	7.1	10.2	14.8	17.8	24.9	35.9	51.3
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	1.3	1.8	2.4	3.4	4.8	6.9	10.0	14.4	17.4	24.4	35.1	50.4
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	1.7	2.4	3.4	4.7	6.7	9.7	14.1	17.0	23.9	34.4	49.5
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	1.7	2.3	3.3	4.6	6.5	9.5	13.8	16.5	23.4	33.7	48.5
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	1.7	2.3	3.2	4.5	6.4	9.2	13.5	16.2	22.9	33.0	47.6
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	1.7	2.3	3.2	4.4	6.2	9.0	13.2	15.8	22.3	32.3	46.7
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	2.3	3.1	4.3	6.1	8.8	12.9	15.5	21.8	31.7	45.8
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	2.3	3.1	4.3	6.0	8.5	12.6	15.2	21.3	31.1	44.8
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	2.2	3.1	4.2	5.8	8.4	12.3	14.8	20.8	30.4	44.0
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	3.1	4.1	5.7	8.2	11.9	14.5	20.4	29.7	43.1
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	3.1	4.1	5.6	8.0	11.6	14.1	20.1	29.0	42.3
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	3.0	4.0	5.6	7.8	11.4	13.8	19.6	28.4	41.5
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	3.0	4.0	5.5	7.7	11.1	13.4	19.2	27.8	40.7
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	3.0	4.0	5.4	7.6	10.9	13.1	18.7	27.3	39.8
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	3.0	4.0	5.3	7.4	10.7	12.9	18.3	26.8	38.9
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	4.0	5.3	7.3	10.5	12.6	17.8	26.2	38.1
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	3.9	5.3	7.2	10.3	12.3	17.4	25.6	37.3
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	3.9	5.3	7.1	10.1	12.1	17.1	25.1	36.7
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	3.0	3.9	5.2	7.1	10.0	11.9	16.7	24.5	36.0
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	5.2	7.0	9.8	11.7	16.4	23.9	35.3
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	3.1	3.9	5.2	7.0	9.7	11.5	16.1	23.4	34.5
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	1.9	2.4	3.1	3.9	5.2	7.0	9.6	11.4	15.8	22.9	33.8
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	5.2	6.9	9.5	11.2	15.6	22.5	33.0
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.2	6.9	9.4	11.1	15.3	22.1	32.3
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	4.1	5.2	6.9	9.4	11.0	15.1	21.7	31.6
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	6.9	9.4	10.9	14.9	21.3	31.0
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	5.2	6.9	9.3	10.9	14.7	21.0	30.5
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	6.9	9.3	10.9	14.6	20.7	29.9
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	4.3	5.4	6.9	9.2	10.8	14.4	20.4	29.4
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	4.3	5.4	6.9	9.2	10.7	14.3	20.2	28.9
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	9.2	10.7	14.3	19.9	28.5
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	5.5	7.1	9.2	10.7	14.3	19.7	28.1
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	10.7	14.2	19.5	27.7
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	10.7	14.1	19.4	27.4
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	14.1	19.4	27.1
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	14.1	19.4	26.8
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	14.1	19.3	26.5

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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 33 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	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	0.9	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	7.4	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	6.0	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	0.9	1.3	1.8	2.5	3.6	4.8	6.1	7.8	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	25.0
25	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	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	0.1	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	0.1	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	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	5.9	8.2	10.4	12.9	15.8	19.1	20.7	23.7	27.2	31.0
29	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.2	10.5	13.1	16.2	19.7	21.5	24.9	28.6	32.7
30	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.1	10.6	13.3	16.5	20.3	22.3	26.1	30.1	34.5
31	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.5	7.9	10.6	13.5	16.8	20.9	23.0	27.1	31.6	36.5
32	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.6	10.5	13.6	17.1	21.4	23.7	28.2	33.1	38.3
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.8	3.8	5.3	7.5	10.4	13.7	17.4	21.8	24.3	29.1	34.6	40.2
34	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.2	7.3	10.1	13.7	17.6	22.2	24.8	30.0	36.0	42.1
35	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	13.3	17.8	22.6	25.3	30.8	37.3	44.1
36	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	17.9	22.9	25.7	31.5	38.5	46.1
37	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	9.4	12.9	17.9	23.2	26.1	32.1	39.7	47.8
38	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	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	0.1	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	0.1	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	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.3	6.2	8.7	11.9	16.5	23.4	27.1	34.3	43.3	53.9
42	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	8.5	11.7	16.2	23.0	27.0	34.7	44.0	55.2
43	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	8.3	11.5	15.9	22.4	26.7	35.0	44.7	56.2
44	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	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	0.1	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	0.1	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	0.1	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	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.5	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	0.1	0.2	0.2	0.3	0.3	0.4	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	0.1	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	13.8	19.7	23.2	31.8	45.2	61.6

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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 33 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	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
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
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
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
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	2.6	3.7	5.3	7.6	10.9	15.7	18.9	26.4	37.7	53.4
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	2.5	3.6	5.2	7.4	10.6	15.4	18.4	25.8	37.0	52.7
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	3.6	5.0	7.2	10.3	15.1	18.0	25.2	36.3	51.8
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	1.3	1.8	2.4	3.5	4.9	7.0	10.1	14.7	17.7	24.7	35.6	50.9
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	1.3	1.7	2.4	3.4	4.8	6.8	9.9	14.3	17.3	24.2	34.8	50.0
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	1.3	1.7	2.3	3.3	4.7	6.6	9.6	13.9	16.8	23.7	34.1	49.1
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	1.7	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	3.0	3.9	5.2	7.3	10.4	12.5	17.6	26.0	37.7
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	3.9	5.2	7.2	10.2	12.2	17.2	25.4	37.0
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	1.8	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	0.2	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	0.2	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	0.2	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	0.9	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	5.2	6.8	9.2	10.7	14.6	20.8	30.1
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	6.8	9.2	10.7	14.4	20.5	29.6
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	9.1	10.7	14.3	20.2	29.1
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	6.8	9.1	10.6	14.2	20.0	28.6
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	9.1	10.6	14.2	19.7	28.2
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	9.1	10.6	14.1	19.5	27.8
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	10.6	14.1	19.3	27.5
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	10.6	14.0	19.2	27.2
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	5.7	7.2	9.3	10.6	13.9	19.2	26.8
98	0.1	0.1	0.2	0.2	0.3	0.3	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	0.4	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	0.4	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

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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 34 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	0.8	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
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	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
11	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.2	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	0.2	0.3	0.5	0.7	0.9	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	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.2	2.7	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.2	10.5	12.2	14.6
14	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.2	2.8	3.5	4.2	5.0	5.8	6.5	7.2	8.1	9.1	9.7	11.1	12.9	15.4
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	3.6	4.4	5.4	6.4	7.3	8.2	9.2	10.3	11.0	12.4	14.4	17.0
17	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.7	4.5	5.5	6.7	7.7	8.7	9.8	11.0	11.7	13.1	15.2	17.9
18	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.0	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	1.0	1.4	2.0	2.8	3.7	4.7	5.8	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	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.7	4.7	5.9	7.3	8.8	10.2	11.6	13.2	13.9	15.6	17.9	20.9
21	0.1	0.1	0.1	0.2	0.2	0.3	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	0.9	1.3	1.8	2.5	3.6	4.8	6.1	7.7	9.3	11.1	12.9	14.8	15.7	17.6	20.0	23.2
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	24.5
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	4.5	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	0.2	0.3	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	0.2	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	0.2	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	0.2	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	24.5	29.5	35.4	41.3
34	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	13.5	17.6	22.3	24.9	30.4	36.7	43.3
35	0.1	0.1	0.1	0.1	0.2	0.2	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	0.2	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	0.2	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	0.1	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	23.4	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	26.9	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	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.2	11.4	15.8	22.4	26.6	34.6	44.2	55.6
43	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	11.2	15.5	21.9	26.1	34.7	44.8	56.6
44	0.1	0.1	0.1	0.1	0.2	0.2	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	21.4	25.4	34.7	45.3	57.6
45	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	15.0	21.0	24.9	34.3	45.8	58.5
46	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	7.5	10.4	14.7	20.6	24.4	33.7	46.0	59.3
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	1.8	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	0.2	0.3	0.3	0.4	0.6	0.8	1.2	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	0.2	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	0.2	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	19.2	22.8	31.0	43.9	61.1

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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 34 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.6	9.2	13.1	18.8	22.3	30.5	43.0	60.8
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	6.4	9.0	12.8	18.4	21.9	30.0	42.2	60.0
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	6.2	8.8	12.5	18.0	21.4	29.5	41.4	58.8
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	6.0	8.6	12.2	17.6	21.0	29.0	40.7	57.5
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	5.9	8.3	11.9	17.2	20.5	28.5	40.1	56.5
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	5.7	8.1	11.6	16.8	20.1	27.9	39.5	55.5
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	5.6	7.9	11.4	16.4	19.6	27.3	38.9	54.6
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	5.5	7.7	11.1	16.0	19.2	26.8	38.2	53.8
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	5.3	7.5	10.8	15.6	18.7	26.2	37.5	53.0
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	10.5	15.1	18.3	25.6	36.8	52.3
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	5.0	7.2	10.2	15.0	17.9	25.1	36.0	51.4
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	4.9	7.0	10.0	14.6	17.5	24.5	35.3	50.5
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	1.3	1.7	2.3	3.4	4.8	6.8	9.8	14.2	17.1	24.0	34.6	49.6
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	1.3	1.7	2.3	3.3	4.6	6.6	9.6	13.8	16.7	23.5	33.9	48.7
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	1.3	1.7	2.3	3.2	4.5	6.4	9.3	13.5	16.3	23.0	33.2	47.8
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	1.7	2.2	3.2	4.4	6.3	9.1	13.3	15.9	22.5	32.5	46.8
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	1.7	2.2	3.1	4.3	6.1	8.8	13.0	15.5	22.0	31.8	45.9
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	1.7	2.2	3.1	4.3	6.0	8.6	12.7	15.2	21.4	31.2	45.0
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	1.7	2.2	3.0	4.2	5.9	8.4	12.4	14.9	20.9	30.5	44.1
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0	4.1	5.7	8.2	12.0	14.6	20.5	29.9	43.2
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.2	3.0	4.1	5.6	8.0	11.7	14.2	20.1	29.2	42.4
72	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	2.2	3.0	4.0	5.5	7.9	11.4	13.9	19.7	28.5	41.6
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	3.0	4.0	5.5	7.7	11.2	13.5	19.3	27.9	40.8
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	3.0	3.9	5.4	7.6	10.9	13.2	18.8	27.3	39.9
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	2.9	3.9	5.3	7.4	10.7	12.9	18.4	26.8	39.0
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	3.9	5.2	7.3	10.5	12.6	17.9	26.3	38.1
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	3.9	5.2	7.2	10.3	12.4	17.5	25.7	37.4
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	3.9	5.1	7.1	10.1	12.1	17.1	25.2	36.6
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	2.3	2.9	3.8	5.1	7.0	9.9	11.9	16.7	24.6	36.0
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	1.8	2.3	3.0	3.8	5.1	6.9	9.8	11.7	16.4	24.0	35.3
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	5.1	6.9	9.7	11.5	16.1	23.4	34.6
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	3.0	3.8	5.1	6.8	9.5	11.3	15.8	22.9	33.8
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	5.1	6.8	9.4	11.2	15.5	22.5	33.1
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	3.9	5.1	6.8	9.3	11.0	15.2	22.1	32.4
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	4.0	5.1	6.8	9.2	10.9	15.0	21.7	31.6
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	6.7	9.2	10.7	14.8	21.3	31.0
87	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.2	4.0	5.1	6.7	9.2	10.7	14.6	20.9	30.4
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	5.1	6.7	9.1	10.6	14.4	20.6	29.9
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	9.1	10.6	14.3	20.3	29.3
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	9.0	10.6	14.1	20.0	28.8
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	9.0	10.5	14.0	19.8	28.3
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	4.3	5.4	6.8	9.0	10.5	14.0	19.5	27.9
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	10.5	14.0	19.3	27.5
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	10.5	13.9	19.1	27.2
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	10.5	13.9	19.0	26.9
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	13.8	19.0	26.6
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	13.8	19.0	26.3
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	13.8	18.9	26.0
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	13.8	18.8	25.9
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	18.7	25.8

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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 35 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	0.9	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	1.2	1.7	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	1.6	2.2	2.8	3.6	4.4	5.3	6.3	7.1	8.0	8.9	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	4.5	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	12.8	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	4.7	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	4.5	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	6.1	8.0	10.0	12.3	14.9	17.6	18.9	21.5	24.5	28.0
26	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.1	10.2	12.5	15.3	18.4	19.9	22.6	25.9	29.6
27	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.1	10.3	12.8	15.7	19.0	20.7	23.8	27.4	31.2
28	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	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	4.0	5.5	7.9	10.5	13.2	16.4	20.3	22.3	26.1	30.2	34.9
30	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.6	10.4	13.3	16.7	20.8	23.0	27.2	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	23.6	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	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.5	9.0	12.5	17.3	23.2	26.2	32.5	40.6	49.6
38	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	23.2	26.5	33.1	41.4	51.1
39	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	23.1	26.7	33.5	42.2	52.5
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	2.1	3.0	4.2	6.1	8.4	11.6	16.1	22.9	26.6	33.9	43.0	53.8
41	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.1	5.9	8.2	11.4	15.8	22.4	26.4	34.3	43.7	54.9
42	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	8.0	11.1	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

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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 35 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.1	1.5	2.1	3.1	4.5	6.4	9.0	12.7	18.3	21.8	29.8	42.0	59.7
52	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	17.9	21.3	29.4	41.2	58.6
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	1.4	2.0	2.9	4.3	6.0	8.5	12.1	17.5	20.9	28.9	40.5	57.7
54	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	17.1	20.4	28.3	39.8	56.2
55	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	8.1	11.6	16.7	20.0	27.7	39.2	55.2
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	2.6	3.9	5.6	7.9	11.3	16.3	19.5	27.2	38.7	54.3
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	1.3	1.8	2.6	3.8	5.4	7.7	11.0	15.9	19.1	26.6	38.0	53.4
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	1.8	2.5	3.7	5.3	7.5	10.7	15.5	18.6	26.0	37.3	52.6
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	3.6	5.1	7.3	10.4	15.2	18.2	25.5	36.5	51.9
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	2.4	3.5	5.0	7.1	10.2	14.9	17.8	24.9	35.8	51.1
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	1.7	2.4	3.4	4.8	6.9	10.0	14.5	17.4	24.4	35.1	50.2
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	2.3	3.3	4.7	6.7	9.7	14.1	17.0	23.8	34.4	49.3
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	3.3	4.6	6.6	9.5	13.8	16.6	23.3	33.6	48.4
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.3	3.2	4.5	6.4	9.3	13.4	16.2	22.8	32.9	47.5
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	1.3	1.7	2.2	3.2	4.4	6.2	9.0	13.2	15.8	22.4	32.2	46.5
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	1.3	1.7	2.2	3.1	4.3	6.1	8.8	12.9	15.4	21.8	31.6	45.6
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	1.7	2.2	3.1	4.2	5.9	8.6	12.6	15.1	21.3	30.9	44.7
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	1.7	2.2	3.0	4.2	5.8	8.3	12.3	14.8	20.8	30.3	43.8
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	1.7	2.2	3.0	4.1	5.7	8.1	12.0	14.5	20.3	29.7	42.9
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	2.2	3.0	4.0	5.6	8.0	11.7	14.1	19.9	29.0	42.1
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	2.2	3.0	4.0	5.5	7.8	11.4	13.8	19.6	28.3	41.2
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	1.3	1.7	2.2	3.0	3.9	5.4	7.6	11.1	13.4	19.1	27.7	40.5
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	2.9	3.9	5.3	7.5	10.8	13.1	18.7	27.1	39.6
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	2.9	3.9	5.3	7.4	10.6	12.8	18.2	26.6	38.7
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	2.9	3.9	5.2	7.2	10.4	12.5	17.8	26.1	37.9
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	3.9	5.1	7.1	10.2	12.3	17.3	25.5	37.1
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	3.8	5.1	7.0	10.0	12.0	16.9	25.0	36.3
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	3.8	5.1	6.9	9.9	11.8	16.6	24.4	35.7
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	3.8	5.1	6.8	9.7	11.6	16.3	23.8	35.0
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	1.8	2.3	3.0	3.8	5.0	6.8	9.6	11.4	15.9	23.3	34.3
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	5.0	6.8	9.4	11.2	15.6	22.7	33.6
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	2.3	3.0	3.8	5.0	6.8	9.3	11.1	15.4	22.3	32.8
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	5.0	6.7	9.2	10.9	15.1	21.9	32.1
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	3.9	5.0	6.7	9.1	10.8	14.9	21.5	31.4
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	4.0	5.0	6.7	9.1	10.6	14.7	21.1	30.7
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	5.0	6.6	9.1	10.6	14.5	20.7	30.1
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	6.6	9.1	10.5	14.3	20.4	29.6
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	2.5	3.2	4.1	5.2	6.6	9.0	10.5	14.1	20.1	29.1
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	9.0	10.5	14.0	19.8	28.5
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	8.9	10.4	13.9	19.6	28.1
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	8.9	10.4	13.9	19.4	27.7
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	10.4	13.9	19.1	27.3
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	10.4	13.8	18.9	26.9
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	10.4	13.7	18.8	26.6
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	13.7	18.8	26.3
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	13.7	18.8	26.0
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	13.7	18.7	25.8
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	13.7	18.6	25.6
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	4.6	5.8	7.4	9.5	10.8	13.7	18.5	25.6
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	4.6	5.8	7.4	9.6	10.9	13.8	18.5	25.6

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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 36 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.5	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	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	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	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	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	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	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	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	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	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.6	3.2	3.8	4.3	4.9	5.4	6.0	6.7	7.6	8.1	9.3	11.0	13.2
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	3.9	4.5	5.2	5.7	6.4	7.1	8.1	8.6	9.9	11.6	13.9
12	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.2	2.7	3.4	4.1	4.8	5.5	6.1	6.8	7.6	8.6	9.2	10.5	12.2	14.6
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	4.2	5.0	5.8	6.5	7.3	8.1	9.1	9.7	11.1	12.9	15.4
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	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.2
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	6.4	7.3	8.2	9.2	10.3	11.0	12.4	14.4	17.0
16	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	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	5.6	6.9	8.1	9.2	10.4	11.7	12.4	14.0	16.1	18.9
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	5.7	7.1	8.4	9.7	11.0	12.4	13.2	14.8	17.0	19.9
19	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	5.8	7.3	8.7	10.2	11.6	13.2	14.0	15.7	18.0	20.9
20	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	5.9	7.4	9.0	10.6	12.3	14.0	14.9	16.6	19.0	22.1
21	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
22	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
23	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
24	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	8.0	9.9	12.1	14.6	17.3	18.5	21.0	23.8	27.3
25	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.0	10.0	12.3	15.1	18.0	19.5	22.1	25.2	28.9
26	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.0	10.2	12.6	15.5	18.7	20.3	23.2	26.7	30.5
27	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.6	8.0	10.3	12.8	15.9	19.3	21.1	24.4	28.1	32.2
28	0.1	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	7.9	10.4	13.0	16.2	19.9	21.9	25.6	29.6	34.0
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	2.8	3.9	5.4	7.7	10.4	13.2	16.5	20.5	22.6	26.7	31.1	35.9
30	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	7.5	10.3	13.3	16.8	20.9	23.2	27.7	32.6	37.7
31	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	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	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	24.8	30.2	36.7	43.5
34	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.8	6.8	9.3	13.0	17.5	22.5	25.2	30.9	37.9	45.4
35	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	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	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	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	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	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	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	11.1	15.4	21.7	25.9	34.2	43.8	55.2
42	0.1	0.1	0.1	0.1	0.1	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	15.1	21.3	25.3	34.2	44.4	56.2
43	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.7	5.4	7.6	10.6	14.8	20.8	24.7	34.0	44.9	57.2
44	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.9	1.2	1.8	2.6	3.6	5.3	7.4	10.4	14.6	20.4	24.2	33.5	45.2	58.0
45	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.1	14.3	20.0	23.7	32.7	45.3	58.8
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.9	14.0	19.7	23.3	32.0	45.1	59.4
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.9	6.9	9.6	13.6	19.4	22.9	31.3	44.5	60.0
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	19.0	22.5	30.7	43.6	60.1
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.2	13.0	18.6	22.1	30.2	42.6	59.9
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.5	6.3	8.9	12.7	18.2	21.7	29.7	41.8	59.4

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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 36 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	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	0.2	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	0.2	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	0.2	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	0.2	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	11.3	16.2	19.4	27.1	38.5	54.0
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	1.3	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	0.2	0.2	0.3	0.4	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	0.2	0.2	0.3	0.4	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	0.2	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	0.2	0.2	0.3	0.4	0.5	0.6	0.7	1.0	1.3	1.7	2.4	3.4	4.8	6.9	9.9	14.4	17.3	24.2	34.9	49.9
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	1.7	2.3	3.3	4.7	6.7	9.7	14.1	17.0	23.7	34.2	49.0
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	2.3	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.9	4.0	5.6	7.9	11.6	14.0	19.8	28.8	41.8
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	1.6	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.9	3.9	5.3	7.4	10.8	13.0	18.5	26.9	39.4
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	2.9	3.8	5.2	7.3	10.6	12.7	18.1	26.4	38.5
74	0.1	0.1	0.1	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.8	5.1	7.0	9.9	11.9	16.8	24.8	36.1
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	3.8	5.0	6.9	9.8	11.7	16.5	24.2	35.4
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	3.8	5.0	6.8	9.6	11.5	16.1	23.7	34.8
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	3.8	5.0	6.7	9.5	11.3	15.8	23.1	34.1
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	5.0	6.7	9.4	11.1	15.5	22.6	33.3
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	5.0	6.7	9.2	11.0	15.2	22.1	32.6
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	3.0	3.8	5.0	6.7	9.1	10.8	15.0	21.7	31.9
83	0.1	0.1	0.1	0.2	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	8.9	10.4	13.9	19.7	28.3
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	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	0.3	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	0.3	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	0.3	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	26.7
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	8.9	10.3	13.6	18.7	26.4
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	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	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.3	13.5	18.6	25.8
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	7.1	9.2	10.5	13.5	18.5	25.6
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	13.6	18.4	25.4
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	18.4	25.4
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	18.4	25.4
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	13.8	18.4	25.3

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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 37 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	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	0.8	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	1.6	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	0.8	1.1	1.5	2.1	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	7.0	8.2	9.4	10.7	12.0	12.8	14.4	16.5	19.3
18	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.6	5.7	7.2	8.5	10.0	11.3	12.8	13.6	15.2	17.5	20.4
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	21.5
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	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	0.1	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	0.1	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	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	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	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	6.0	8.0	9.9	12.2	14.8	17.6	19.0	21.5	24.6	28.1
25	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.2	5.8	8.0	10.1	12.4	15.2	18.3	19.9	22.7	26.0	29.7
26	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	10.2	12.7	15.6	19.0	20.7	23.8	27.5	31.4
27	0.1	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	7.9	10.3	12.9	15.9	19.6	21.5	25.1	28.9	33.1
28	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.7	10.3	13.0	16.3	20.2	22.2	26.1	30.3	35.0
29	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	7.5	10.2	13.2	16.6	20.7	22.9	27.1	31.8	36.9
30	0.1	0.1	0.1	0.1	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	23.5	28.1	33.4	38.7
31	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	13.3	17.1	21.5	24.0	29.0	34.8	40.6
32	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	17.2	21.9	24.4	29.8	36.1	42.5
33	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.8	6.8	9.3	13.0	17.4	22.2	24.9	30.5	37.3	44.5
34	0.1	0.1	0.1	0.1	0.1	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	0.1	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	22.8	25.6	31.7	39.4	47.9
36	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	22.9	26.0	32.3	40.4	49.5
37	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	22.9	26.2	32.8	41.1	50.9
38	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	16.0	22.7	26.3	33.2	41.9	52.3
39	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	5.9	8.2	11.3	15.7	22.3	26.2	33.6	42.7	53.5
40	0.1	0.1	0.1	0.1	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	11.1	15.4	21.7	25.9	33.9	43.3	54.5
41	0.1	0.1	0.1	0.1	0.1	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	15.1	21.2	25.3	33.9	43.9	55.6
42	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	2.6	3.7	5.4	7.6	10.6	14.8	20.8	24.7	33.8	44.4	56.5
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	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	57.4
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.1	14.2	20.0	23.7	32.7	44.9	58.1
45	0.1	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	5.0	7.0	9.9	13.9	19.6	23.2	31.9	44.8	58.8
46	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.9	6.8	9.6	13.6	19.3	22.8	31.2	44.4	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	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	19.0	22.4	30.6	43.5	59.6
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	1.5	2.2	3.1	4.6	6.5	9.1	13.0	18.6	22.1	30.1	42.5	59.5
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	1.5	2.1	3.0	4.5	6.3	8.9	12.7	18.2	21.6	29.5	41.6	59.1
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.4	17.8	21.2	29.1	40.9	58.2

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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 37 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	12.1	14.7	20.6	30.0	43.3
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	2.1	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.6	2.1	2.9	3.9	5.3	7.5	11.0	13.3	18.9	27.4	40.0
71	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	2.9	3.8	5.3	7.4	10.7	12.9	18.4	26.8	39.2
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	1.3	1.7	2.1	2.9	3.8	5.2	7.3	10.5	12.6	18.0	26.2	38.3
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	1.7	2.1	2.9	3.8	5.1	7.1	10.3	12.3	17.6	25.8	37.4
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	2.9	3.8	5.0	7.0	10.1	12.1	17.1	25.2	36.6
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	2.9	3.8	5.0	6.9	9.9	11.8	16.7	24.6	35.9
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	3.7	5.0	6.8	9.7	11.6	16.4	24.1	35.2
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	3.7	5.0	6.7	9.6	11.4	16.0	23.5	34.6
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	5.0	6.7	9.4	11.2	15.7	22.9	33.8
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	4.9	6.6	9.3	11.0	15.4	22.4	33.1
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	3.7	4.9	6.6	9.2	10.9	15.1	22.0	32.4
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	4.9	6.6	9.0	10.7	14.9	21.6	31.6
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	3.0	3.8	4.9	6.6	9.0	10.6	14.6	21.1	30.9
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	6.5	8.9	10.5	14.4	20.8	30.3
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	2.5	3.1	3.9	4.9	6.5	8.9	10.4	14.3	20.4	29.7
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	4.0	5.0	6.5	8.9	10.3	14.1	20.1	29.2
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	8.8	10.4	13.9	19.8	28.6
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	4.0	5.1	6.5	8.8	10.3	13.7	19.5	28.1
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	8.8	10.2	13.7	19.3	27.6
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	6.6	8.8	10.2	13.6	19.0	27.2
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	8.8	10.2	13.6	18.8	26.8
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	10.2	13.6	18.6	26.5
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	8.8	10.2	13.5	18.5	26.2
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	8.9	10.2	13.4	18.5	25.9
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	10.2	13.4	18.5	25.6
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	13.4	18.4	25.3
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	13.4	18.3	25.2
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	5.7	7.2	9.3	10.6	13.5	18.2	25.2
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	18.2	25.1
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	18.2	25.0
100	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.2	24.9

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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 30 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.1	2.3	2.5	2.8	3.1	3.5	4.0	4.7	5.1	5.9	7.3	9.1
2	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.4	2.7	3.0	3.4	3.8	4.3	5.0	5.4	6.3	7.6	9.5
3	0.1	0.1	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	3.6	4.0	4.6	5.3	5.7	6.6	8.0	9.9
4	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.3	4.9	5.6	6.0	7.0	8.4	10.4
5	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.7	3.0	3.3	3.7	4.1	4.6	5.2	5.9	6.4	7.4	8.9	10.9
6	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.9	5.5	6.3	6.8	7.8	9.3	11.4
7	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	2.0	2.5	2.9	3.4	3.8	4.2	4.7	5.2	5.9	6.7	7.2	8.3	9.8	12.0
8	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.7	2.1	2.5	3.1	3.6	4.0	4.5	5.0	5.6	6.3	7.1	7.6	8.8	10.4	12.6
9	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.2	3.7	4.3	4.8	5.4	5.9	6.7	7.6	8.1	9.3	10.9	13.2
10	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.3	3.9	4.5	5.1	5.7	6.3	7.1	8.1	8.6	9.8	11.6	13.9
11	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	4.0	4.7	5.4	6.1	6.8	7.6	8.6	9.1	10.4	12.2	14.6
12	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.2	4.9	5.8	6.5	7.2	8.1	9.1	9.7	11.0	12.9	15.3
13	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.3	5.1	6.1	6.9	7.7	8.6	9.7	10.3	11.7	13.6	16.1
14	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.8	3.5	4.4	5.3	6.3	7.3	8.2	9.2	10.3	11.0	12.4	14.4	17.0
15	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.8	3.6	4.4	5.4	6.6	7.7	8.7	9.8	11.0	11.7	13.1	15.2	17.9
16	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.5	5.5	6.8	8.0	9.2	10.4	11.7	12.4	13.9	16.1	18.8
17	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.6	5.7	7.0	8.4	9.7	11.0	12.4	13.2	14.8	17.0	19.8
18	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	4.6	5.8	7.2	8.7	10.2	11.6	13.2	14.0	15.7	18.0	20.9
19	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	7.4	8.9	10.6	12.3	14.0	14.9	16.6	19.0	22.1
20	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.6	5.9	7.5	9.2	11.0	12.9	14.8	15.8	17.6	20.1	23.3
21	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	6.0	7.7	9.4	11.4	13.5	15.6	16.7	18.7	21.3	24.6
22	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	6.0	7.8	9.6	11.7	14.0	16.4	17.6	19.9	22.5	25.9
23	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.1	4.5	6.0	7.9	9.8	12.0	14.5	17.2	18.5	21.0	23.9	27.4
24	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	7.9	9.9	12.2	15.0	17.9	19.4	22.1	25.3	28.9
25	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	5.7	7.9	10.1	12.5	15.4	18.6	20.3	23.2	26.8	30.5
26	0.1	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	7.9	10.2	12.7	15.7	19.2	21.1	24.4	28.2	32.3
27	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	5.4	7.7	10.2	12.9	16.1	19.8	21.8	25.6	29.6	34.1
28	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	7.5	10.2	13.1	16.4	20.3	22.5	26.6	31.1	36.0
29	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.7	5.1	7.3	10.1	13.2	16.6	20.8	23.1	27.6	32.6	37.8
30	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	9.9	13.2	16.9	21.2	23.6	28.5	34.1	39.7
31	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	17.1	21.6	24.1	29.3	35.4	41.6
32	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	4.8	6.8	9.3	13.0	17.2	21.9	24.6	30.1	36.6	43.6
33	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	4.7	6.7	9.1	12.6	17.2	22.2	25.0	30.7	37.8	45.4
34	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	17.1	22.5	25.4	31.3	38.8	47.1
35	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.3	3.2	4.4	6.4	8.7	12.0	16.9	22.7	25.7	31.9	39.8	48.7
36	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	4.3	6.2	8.6	11.9	16.5	22.7	26.0	32.4	40.6	50.1
37	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	11.5	16.0	22.6	26.1	32.8	41.4	51.5
38	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	5.9	8.2	11.3	15.7	22.3	26.0	33.3	42.2	52.8
39	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	11.1	15.4	21.8	25.8	33.6	42.8	53.8
40	0.1	0.1	0.1	0.1	0.1	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	15.0	21.2	25.3	33.7	43.4	54.9
41	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	2.6	3.7	5.4	7.6	10.6	14.8	20.8	24.6	33.6	44.0	55.8
42	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	5.3	7.4	10.4	14.5	20.3	24.1	33.3	44.4	56.7
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.1	14.2	19.9	23.6	32.7	44.6	57.5
44	0.1	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	5.0	7.0	9.9	13.9	19.6	23.2	31.8	44.5	58.2
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.9	6.8	9.6	13.6	19.3	22.7	31.2	44.2	58.8
46	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	18.9	22.3	30.6	43.5	59.2
47	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	4.6	6.5	9.1	13.0	18.5	22.0	30.0	42.4	59.2
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	1.5	2.1	3.0	4.5	6.3	8.9	12.7	18.1	21.6	29.4	41.5	58.8
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.1	8.7	12.3	17.7	21.1	29.0	40.7	58.0
50	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	12.0	17.3	20.7	28.5	40.0	56.8

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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 38 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	8.4	12.4	14.9	21.0	30.5	44.0
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	2.1	3.0	4.1	5.7	8.2	12.1	14.6	20.5	29.8	43.1
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	2.1	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.8	5.1	7.2	10.4	12.6	17.9	26.1	38.1
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	2.8	3.8	5.1	7.1	10.2	12.3	17.5	25.6	37.2
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.8	5.0	7.0	10.0	12.0	17.0	25.1	36.4
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	3.7	5.0	6.9	9.8	11.8	16.6	24.5	35.7
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	3.7	5.0	6.8	9.6	11.5	16.3	24.0	35.0
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	2.8	3.7	4.9	6.7	9.5	11.3	15.9	23.4	34.4
77	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.7	4.9	6.6	9.4	11.1	15.6	22.8	33.7
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	4.9	6.6	9.2	11.0	15.3	22.3	32.9
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	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	0.2	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	0.2	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	0.2	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	10.4	14.3	20.6	30.1
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	6.5	8.9	10.3	14.2	20.3	29.5
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	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	0.2	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	6.5	8.8	10.3	13.8	19.6	28.4
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	4.0	5.1	6.5	8.7	10.2	13.6	19.4	27.9
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	6.5	8.7	10.2	13.5	19.1	27.5
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	8.7	10.1	13.5	18.9	27.0
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	8.7	10.1	13.5	18.7	26.7
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	10.1	13.4	18.5	26.3
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	4.2	5.3	6.8	8.8	10.1	13.4	18.4	26.0
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	8.8	10.1	13.3	18.3	25.7
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	10.1	13.3	18.3	25.4
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	4.3	5.5	7.0	9.0	10.2	13.3	18.2	25.1
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	13.3	18.1	25.0
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	18.1	24.9
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	13.4	18.0	24.9
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	18.0	24.8
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	18.1	24.7
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	24.6

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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 39 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.0	1.2	1.4	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
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	3.5	3.9	4.4	5.1	5.5	6.4	7.8	9.7
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	3.7	4.1	4.7	5.4	5.8	6.8	8.2	10.1
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	3.9	4.4	5.0	5.7	6.2	7.2	8.6	10.6
5	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.3	2.7	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.1
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	4.5	5.0	5.7	6.5	7.0	8.0	9.6	11.7
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	4.8	5.4	6.0	6.9	7.4	8.5	10.1	12.2
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	5.2	5.7	6.4	7.3	7.8	9.0	10.6	12.8
9	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	5.5	6.1	6.9	7.8	8.3	9.5	11.2	13.5
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	5.9	6.5	7.3	8.3	8.8	10.1	11.8	14.2
11	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.1	4.8	5.6	6.3	7.0	7.8	8.8	9.4	10.7	12.5	14.9
12	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.2	5.0	5.9	6.7	7.5	8.3	9.4	10.0	11.3	13.2	15.7
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	4.3	5.2	6.2	7.0	7.9	8.9	10.0	10.6	12.0	13.9	16.5
14	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.8	3.5	4.4	5.3	6.5	7.5	8.4	9.4	10.6	11.3	12.7	14.7	17.4
15	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.6	4.5	5.5	6.7	7.8	8.9	10.1	11.3	12.0	13.5	15.6	18.3
16	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.5	5.6	6.9	8.2	9.4	10.7	12.0	12.7	14.3	16.5	19.3
17	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.8	2.6	3.6	4.6	5.7	7.1	8.5	9.9	11.3	12.8	13.6	15.2	17.4	20.3
18	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	4.6	5.8	7.3	8.8	10.3	11.9	13.6	14.4	16.1	18.4	21.4
19	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.4	3.4	4.6	5.9	7.4	9.0	10.8	12.6	14.4	15.3	17.1	19.5	22.6
20	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	5.9	7.6	9.3	11.1	13.2	15.1	16.2	18.2	20.7	23.9
21	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	6.0	7.7	9.5	11.5	13.7	16.0	17.1	19.3	21.9	25.2
22	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	5.9	7.8	9.6	11.8	14.2	16.8	18.0	20.4	23.2	26.6
23	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	5.9	7.9	9.8	12.1	14.7	17.5	18.9	21.5	24.6	28.1
24	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	7.9	10.0	12.3	15.1	18.2	19.8	22.6	26.0	29.7
25	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	7.9	10.1	12.5	15.5	18.9	20.6	23.8	27.4	31.4
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	2.9	3.9	5.4	7.7	10.2	12.7	15.8	19.5	21.4	25.0	28.8	33.2
27	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	5.3	7.5	10.2	12.9	16.1	20.0	22.1	26.0	30.3	35.1
28	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	10.1	13.1	16.4	20.5	22.7	27.0	31.8	36.9
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	9.9	13.1	16.7	20.9	23.3	28.0	33.3	38.7
30	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	4.9	7.0	9.6	13.1	16.9	21.3	23.8	28.8	34.7	40.6
31	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	13.0	17.1	21.7	24.2	29.6	35.9	42.6
32	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	9.1	12.7	17.1	22.0	24.7	30.3	37.1	44.5
33	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	6.5	8.9	12.3	17.1	22.3	25.1	30.9	38.7	46.2
34	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	6.4	8.7	12.0	16.9	22.5	25.4	31.5	39.2	47.8
35	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	4.3	6.2	8.6	11.8	16.5	22.6	25.7	32.0	40.1	49.3
36	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	11.5	16.1	22.5	25.9	32.5	40.9	50.7
37	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	5.9	8.2	11.3	15.7	22.3	25.9	32.9	41.6	52.0
38	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	2.8	4.0	5.7	8.0	11.1	15.4	21.8	25.7	33.3	42.3	53.1
39	0.1	0.1	0.1	0.1	0.1	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	15.0	21.2	25.3	33.4	42.9	54.1
40	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	2.6	3.7	5.4	7.6	10.6	14.7	20.8	24.7	33.4	43.5	55.1
41	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	5.3	7.4	10.4	14.5	20.3	24.1	33.2	44.0	56.1
42	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	10.1	14.2	19.9	23.6	32.7	44.2	56.8
43	0.1	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	5.0	7.0	9.9	13.9	19.5	23.1	31.8	44.3	57.6
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.9	6.8	9.6	13.6	19.2	22.7	31.1	44.0	58.2
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	18.9	22.3	30.5	43.4	58.7
46	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	4.6	6.5	9.1	13.0	18.5	21.9	29.9	42.4	58.8
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.0	4.5	6.3	8.9	12.7	18.1	21.5	29.4	41.5	58.5
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.7	12.3	17.7	21.1	28.9	40.7	57.9
49	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	12.0	17.3	20.6	28.4	39.9	56.8
50	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	4.1	5.8	8.3	11.7	16.9	20.2	27.9	39.2	55.4

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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 39 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.1	5.7	8.2	12.1	14.5	20.4	29.7	42.9
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	2.1	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	0.2	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.8	5.1	7.2	10.4	12.5	17.9	26.0	38.0
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	2.8	3.8	5.0	7.1	10.2	12.2	17.4	25.5	37.1
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.8	3.7	5.0	6.9	10.0	12.0	17.0	25.0	36.2
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	3.7	4.9	6.8	9.8	11.7	16.6	24.4	35.5
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	3.7	4.9	6.7	9.6	11.5	16.2	23.9	34.8
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	3.7	4.9	6.7	9.4	11.3	15.9	23.3	34.2
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	2.8	3.7	4.9	6.6	9.3	11.1	15.5	22.7	33.5
77	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.7	4.8	6.5	9.2	10.9	15.2	22.2	32.8
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	4.8	6.5	9.0	10.7	14.9	21.7	32.1
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	4.8	6.5	8.9	10.6	14.7	21.3	31.3
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	3.7	4.8	6.5	8.8	10.5	14.5	20.9	30.6
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	6.4	8.8	10.3	14.2	20.5	29.9
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	3.0	3.8	4.8	6.4	8.8	10.2	14.1	20.1	29.3
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	6.4	8.7	10.2	13.9	19.8	28.8
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	6.4	8.7	10.2	13.7	19.5	28.3
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	3.1	4.0	5.0	6.4	8.6	10.1	13.5	19.2	27.8
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	6.4	8.6	10.1	13.4	19.0	27.3
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	3.2	4.0	5.1	6.5	8.6	10.0	13.4	18.8	26.9
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	4.0	5.2	6.6	8.6	10.0	13.4	18.5	26.5
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	10.0	13.3	18.3	26.1
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	10.0	13.3	18.2	25.8
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	8.7	10.0	13.2	18.2	25.5
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	13.2	18.2	25.2
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	10.1	13.2	18.1	25.0
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	13.2	18.0	24.8
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	17.9	24.7
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	17.9	24.7
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	13.4	17.9	24.6
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	4.5	5.7	7.3	9.4	10.7	13.6	17.9	24.5
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	24.4
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	18.0	24.4

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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 40 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.0	1.2	1.4	1.7	1.9	2.2	2.4	2.7	3.0	3.3	3.7	4.2	4.9	5.3	6.2	7.6	9.4
2	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.3	2.6	2.8	3.2	3.5	4.0	4.5	5.2	5.6	6.6	7.9	9.9
3	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.5	2.8	3.1	3.4	3.8	4.2	4.8	5.5	6.0	6.9	8.4	10.3
4	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.2	1.6	1.9	2.3	2.6	3.0	3.3	3.7	4.1	4.5	5.1	5.9	6.3	7.3	8.8	10.8
5	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.6	1.9	2.4	2.8	3.1	3.5	3.9	4.3	4.8	5.5	6.3	6.7	7.8	9.3	11.3
6	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.3	1.6	2.0	2.4	2.9	3.3	3.7	4.2	4.6	5.2	5.8	6.7	7.1	8.2	9.8	11.9
7	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.2	7.1	7.6	8.7	10.3	12.5
8	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.7	2.1	2.6	3.1	3.7	4.2	4.8	5.3	5.9	6.6	7.5	8.0	9.2	10.9	13.1
9	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.8	4.5	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8
10	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.3	4.0	4.7	5.4	6.1	6.7	7.5	8.5	9.1	10.3	12.1	14.5
11	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.1	2.7	3.4	4.1	4.9	5.7	6.4	7.2	8.0	9.1	9.7	11.0	12.8	15.2
12	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	5.1	6.0	6.8	7.7	8.5	9.6	10.3	11.6	13.5	16.0
13	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.0	2.7	3.5	4.3	5.2	6.3	7.2	8.1	9.1	10.3	10.9	12.3	14.3	16.9
14	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.7	3.5	4.4	5.4	6.5	7.6	8.6	9.7	10.9	11.6	13.1	15.1	17.8
15	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.6	4.5	5.5	6.8	8.0	9.1	10.3	11.6	12.3	13.9	16.0	18.7
16	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.5	5.6	7.0	8.3	9.6	10.9	12.4	13.1	14.7	16.9	19.8
17	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	4.6	5.7	7.2	8.6	10.1	11.6	13.2	13.9	15.6	17.9	20.8
18	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	4.6	5.8	7.3	8.9	10.5	12.2	13.9	14.8	16.6	18.9	22.0
19	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	5.9	7.5	9.1	10.9	12.8	14.7	15.7	17.6	20.0	23.2
20	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	5.9	7.6	9.3	11.3	13.4	15.5	16.6	18.7	21.2	24.5
21	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	5.9	7.7	9.5	11.6	13.9	16.3	17.5	19.8	22.5	25.9
22	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.9	7.8	9.7	11.9	14.4	17.1	18.4	20.9	23.8	27.3
23	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	4.1	5.7	7.8	9.8	12.1	14.9	17.8	19.4	22.0	25.2	28.9
24	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	4.0	5.6	7.8	10.0	12.4	15.3	18.5	20.2	23.2	26.7	30.5
25	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	5.4	7.7	10.1	12.6	15.6	19.1	21.0	24.4	28.1	32.3
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	3.9	5.3	7.6	10.1	12.8	15.9	19.7	21.7	25.5	29.5	34.1
27	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	3.8	5.2	7.3	10.1	12.9	16.2	20.2	22.3	26.5	31.0	35.9
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	7.2	9.9	13.0	16.5	20.6	22.9	27.4	32.6	37.7
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	3.6	4.9	7.0	9.7	13.0	16.7	21.0	23.4	28.3	33.9	39.6
30	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	12.9	16.9	21.4	23.9	29.1	35.2	41.5
31	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	9.2	12.7	17.0	21.7	24.4	29.8	36.4	43.5
32	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	6.5	9.0	12.4	17.0	22.0	24.8	30.4	37.6	45.3
33	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	8.8	12.1	16.9	22.3	25.1	31.1	38.6	46.9
34	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	4.3	6.2	8.6	11.8	16.6	22.4	25.4	31.6	39.5	48.5
35	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	11.5	16.1	22.4	25.7	32.1	40.3	49.9
36	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.2	11.3	15.7	22.2	25.7	32.5	41.1	51.2
37	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	2.8	4.0	5.8	8.0	11.1	15.4	21.9	25.6	32.9	41.8	52.4
38	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	3.9	5.6	7.8	10.9	15.0	21.3	25.3	33.2	42.4	53.4
39	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	2.6	3.7	5.5	7.6	10.6	14.7	20.8	24.8	33.2	43.0	54.4
40	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	5.3	7.4	10.4	14.5	20.3	24.1	33.1	43.5	55.4
41	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	5.2	7.2	10.1	14.2	19.9	23.6	32.6	43.9	56.2
42	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	9.9	13.9	19.5	23.1	31.9	44.0	57.0
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.4	3.3	4.9	6.9	9.6	13.6	19.2	22.7	31.1	43.8	57.6
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.4	13.3	18.9	22.3	30.5	43.3	58.2
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.6	6.5	9.1	13.0	18.5	21.9	29.9	42.5	58.4
46	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	3.1	4.5	6.3	8.9	12.7	18.1	21.5	29.3	41.4	58.2
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.7	12.3	17.7	21.1	28.8	40.6	57.7
48	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	12.0	17.3	20.6	28.4	39.8	56.7
49	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	4.1	5.8	8.3	11.7	16.9	20.2	27.9	39.1	55.3
50	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	27.3	38.4	54.3

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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 40 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.3	1.9	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.8	37.8	53.3
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.8	26.2	37.3	52.4
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.3	18.4	25.7	36.6	51.5
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.6	5.1	7.2	10.3	15.0	17.9	25.1	35.9	50.7
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.3	1.7	2.4	3.5	4.9	7.0	10.1	14.6	17.5	24.5	35.2	50.0
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.1	24.0	34.5	49.2
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.7	2.3	3.3	4.7	6.7	9.6	13.9	16.7	23.4	33.7	48.3
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.4	13.6	16.4	22.9	33.0	47.4
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.1	13.2	15.9	22.4	32.3	46.5
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.3	6.1	8.9	12.9	15.5	21.9	31.6	45.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.6	15.1	21.5	30.9	44.6
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.3	43.7
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.1	5.7	8.2	12.0	14.5	20.4	29.6	42.8
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.0	5.6	8.0	11.7	14.2	19.9	29.0	41.9
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	3.9	5.4	7.8	11.4	13.8	19.4	28.4	41.1
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.8	3.9	5.3	7.6	11.1	13.5	19.0	27.7	40.2
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.8	3.8	5.2	7.4	10.8	13.1	18.7	27.0	39.4
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	2.1	2.8	3.8	5.2	7.3	10.6	12.8	18.2	26.4	38.7
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.8	3.7	5.1	7.1	10.4	12.5	17.8	25.9	37.8
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.7	5.0	7.0	10.1	12.2	17.4	25.4	37.0
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	2.8	3.7	4.9	6.9	9.9	11.9	16.9	24.9	36.1
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	2.8	3.7	4.9	6.8	9.7	11.7	16.5	24.3	35.4
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	3.7	4.9	6.7	9.5	11.4	16.1	23.8	34.7
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	3.6	4.9	6.6	9.4	11.2	15.8	23.2	34.0
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	4.8	6.5	9.2	11.0	15.5	22.7	33.4
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	2.2	2.9	3.6	4.8	6.5	9.1	10.8	15.2	22.1	32.7
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	4.8	6.5	9.0	10.7	14.9	21.6	31.9
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	4.8	6.5	8.9	10.5	14.6	21.2	31.2
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	4.8	6.4	8.8	10.4	14.4	20.8	30.5
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	4.8	6.4	8.7	10.3	14.2	20.4	29.8
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	2.3	3.0	3.8	4.8	6.4	8.7	10.2	14.0	20.0	29.2
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	3.0	3.8	4.8	6.4	8.7	10.1	13.8	19.7	28.7
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	6.4	8.6	10.1	13.6	19.4	28.1
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	3.9	4.9	6.4	8.6	10.1	13.4	19.1	27.6
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	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.6	10.0	13.3	18.9	27.1
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	4.0	5.1	6.4	8.5	9.9	13.3	18.7	26.7
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	8.6	9.9	13.3	18.4	26.3
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	4.1	5.2	6.6	8.6	9.9	13.2	18.2	26.0
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	9.9	13.2	18.1	25.7
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	13.1	18.0	25.4
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	13.1	18.0	25.1
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	10.0	13.1	17.9	24.8
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	13.1	17.9	24.6
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	17.8	24.5
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	5.5	7.1	9.1	10.4	13.2	17.7	24.6
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	17.7	24.5
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	17.8	24.3
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	17.8	24.2
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	24.2
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	18.0	24.2

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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 41 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5	2.7	3.1	3.4	3.8	4.3	5.0	5.4	6.4	7.7	9.6
2	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	2.9	3.3	3.6	4.1	4.6	5.3	5.8	6.7	8.1	10.0
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	2.5	2.8	3.1	3.5	3.9	4.4	4.9	5.7	6.1	7.1	8.5	10.5
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	3.0	3.4	3.8	4.2	4.7	5.3	6.0	6.5	7.5	9.0	11.0
5	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	4.5	5.0	5.6	6.4	6.9	8.0	9.5	11.6
6	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	3.4	3.8	4.3	4.8	5.3	6.0	6.8	7.3	8.4	10.0	12.1
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	3.6	4.1	4.6	5.1	5.7	6.4	7.3	7.8	8.9	10.5	12.7
8	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.8	4.3	4.9	5.5	6.1	6.8	7.7	8.3	9.4	11.1	13.4
9	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.1	2.6	3.3	3.9	4.6	5.2	5.9	6.5	7.2	8.2	8.8	10.0	11.7	14.1
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	4.0	4.8	5.5	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.8
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	4.1	5.0	5.9	6.6	7.4	8.2	9.3	9.9	11.2	13.1	15.6
12	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	2.7	3.5	4.2	5.1	6.1	7.0	7.9	8.8	9.9	10.5	11.9	13.8	16.4
13	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	5.3	6.4	7.4	8.3	9.4	10.5	11.2	12.6	14.6	17.3
14	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.4	5.4	6.6	7.8	8.8	10.0	11.2	11.9	13.4	15.5	18.2
15	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.6	4.5	5.5	6.8	8.1	9.3	10.6	11.9	12.7	14.2	16.4	19.2
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	5.6	7.0	8.4	9.8	11.2	12.7	13.5	15.1	17.3	20.2
17	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	4.6	5.7	7.2	8.7	10.3	11.8	13.5	14.3	16.0	18.4	21.3
18	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	4.6	5.8	7.3	9.0	10.7	12.5	14.3	15.2	17.0	19.4	22.5
19	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	5.9	7.5	9.2	11.1	13.1	15.1	16.1	18.1	20.6	23.8
20	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	5.9	7.6	9.4	11.4	13.6	15.9	17.0	19.2	21.8	25.1
21	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.9	7.7	9.6	11.7	14.1	16.7	17.9	20.3	23.1	26.5
22	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	5.8	7.8	9.7	11.9	14.6	17.4	18.9	21.4	24.5	28.0
23	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	7.8	9.9	12.2	15.0	18.1	19.7	22.5	25.9	29.6
24	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	5.4	7.7	10.0	12.4	15.4	18.8	20.5	23.7	27.3	31.3
25	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	12.6	15.7	19.3	21.2	24.9	28.8	33.1
26	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	3.8	5.2	7.4	10.0	12.8	16.0	19.9	21.9	25.9	30.2	35.0
27	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	7.2	9.9	12.9	16.3	20.3	22.6	26.9	31.7	36.8
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	3.6	4.9	7.0	9.7	13.0	16.5	20.7	23.1	27.8	33.2	38.6
29	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	12.9	16.7	21.1	23.6	28.6	34.5	40.5
30	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	9.2	12.8	16.9	21.5	24.0	29.4	35.8	42.5
31	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	6.6	9.0	12.5	16.9	21.8	24.5	30.0	36.9	44.3
32	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	8.8	12.1	16.8	22.0	24.8	30.6	38.0	46.0
33	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	6.3	8.6	11.8	16.6	22.2	25.1	31.2	38.9	47.6
34	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	11.5	16.2	22.3	25.4	31.7	39.8	49.0
35	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.3	11.3	15.7	22.2	25.6	32.2	40.5	50.4
36	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	2.8	4.0	5.8	8.1	11.1	15.4	21.9	25.5	32.6	41.3	51.7
37	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	2.8	3.9	5.6	7.9	10.9	15.1	21.4	25.3	32.9	41.9	52.7
38	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	2.7	3.8	5.5	7.7	10.6	14.7	20.8	24.8	33.0	42.5	53.7
39	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	10.4	14.5	20.4	24.1	32.9	43.1	54.7
40	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	5.2	7.3	10.1	14.2	19.9	23.6	32.6	43.5	55.6
41	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	7.1	9.9	13.9	19.5	23.1	32.0	43.7	56.3
42	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	6.9	9.6	13.6	19.2	22.7	31.1	43.6	57.0
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.8	6.7	9.4	13.3	18.8	22.2	30.5	43.2	57.6
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.2	13.0	18.5	21.9	29.9	42.5	57.9
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.1	3.1	4.5	6.3	8.9	12.7	18.1	21.5	29.3	41.4	57.9
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	1.0	1.5	2.1	3.0	4.3	6.2	8.7	12.4	17.7	21.1	28.8	40.6	57.5
47	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	4.2	6.0	8.5	12.0	17.3	20.6	28.3	39.8	56.7
48	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	4.1	5.8	8.3	11.7	16.9	20.2	27.9	39.1	55.4
49	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	11.5	16.5	19.7	27.3	38.4	54.2
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.8	37.7	53.2

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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 41 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.8	26.2	37.2	52.3
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.3	18.4	25.6	36.5	51.4
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.6	5.1	7.2	10.4	15.0	17.9	25.1	35.8	50.5
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	1.2	1.7	2.4	3.5	4.9	7.0	10.1	14.6	17.5	24.5	35.1	49.8
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	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.1	24.0	34.4	49.1
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	2.3	3.3	4.7	6.7	9.6	13.9	16.7	23.4	33.7	48.2
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.3	13.6	16.4	22.9	33.0	47.3
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	3.1	4.4	6.3	9.1	13.2	15.9	22.4	32.3	46.4
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.3	6.1	8.9	12.9	15.5	21.9	31.6	45.5
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	2.1	3.0	4.2	6.0	8.6	12.6	15.1	21.4	30.9	44.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.2	43.6
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.7	8.2	12.0	14.4	20.4	29.6	42.7
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.1	2.9	4.0	5.6	8.0	11.7	14.1	19.9	29.0	41.8
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	1.6	2.1	2.8	3.9	5.4	7.8	11.4	13.8	19.4	28.4	41.0
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	2.1	2.8	3.8	5.3	7.6	11.1	13.5	19.0	27.7	40.1
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	2.1	2.8	3.8	5.2	7.4	10.8	13.1	18.6	27.0	39.3
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	2.1	2.8	3.7	5.1	7.3	10.6	12.8	18.2	26.4	38.6
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	2.1	2.8	3.7	5.1	7.1	10.3	12.4	17.8	25.8	37.8
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	2.8	3.7	5.0	7.0	10.1	12.1	17.3	25.3	36.9
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	2.8	3.7	4.9	6.9	9.9	11.9	16.9	24.8	36.0
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	2.8	3.7	4.9	6.8	9.7	11.6	16.5	24.3	35.2
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.8	3.6	4.8	6.7	9.5	11.4	16.1	23.7	34.5
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	3.6	4.8	6.6	9.3	11.2	15.7	23.2	33.9
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	3.6	4.8	6.5	9.2	11.0	15.4	22.6	33.3
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	4.8	6.4	9.1	10.8	15.1	22.0	32.5
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	4.8	6.4	8.9	10.6	14.8	21.6	31.8
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	4.7	6.4	8.8	10.5	14.5	21.1	31.1
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	4.7	6.4	8.7	10.3	14.3	20.7	30.4
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	6.3	8.7	10.2	14.1	20.3	29.7
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	2.3	3.0	3.8	4.7	6.3	8.6	10.1	13.9	19.9	29.1
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	6.3	8.6	10.0	13.7	19.6	28.5
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	3.0	3.8	4.8	6.3	8.6	10.0	13.5	19.3	28.0
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	6.3	8.5	10.0	13.4	19.0	27.5
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	1.9	2.4	3.1	3.9	4.9	6.3	8.5	9.9	13.3	18.8	27.0
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	4.0	5.0	6.4	8.5	9.9	13.2	18.6	26.6
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	6.4	8.5	9.8	13.2	18.3	26.2
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	8.5	9.8	13.1	18.1	25.8
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	9.8	13.1	18.0	25.5
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	13.0	17.9	25.2
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	8.7	9.9	13.0	17.9	24.9
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	8.8	9.9	13.0	17.8	24.6
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	10.1	13.0	17.7	24.4
93	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	5.4	6.9	9.0	10.2	13.0	17.6	24.4
94	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.0	9.0	10.3	13.0	17.6	24.4
95	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.7	2.2	2.7	3.5	4.4	5.5	7.1	9.1	10.4	13.2	17.6	24.3
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	5.6	7.1	9.2	10.5	13.3	17.6	24.2
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	13.5	17.6	24.0
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	17.7	24.0
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	17.9	24.0
100	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	2.3	2.8	3.7	4.6	5.8	7.4	9.6	10.9	13.9	18.1	24.0

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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 42 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	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	0.7	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	0.1	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	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.5	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	0.1	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	0.1	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	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	3.0	4.1	5.7	7.7	9.7	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	15.8	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	16.1	20.0	22.2	26.3	30.9	35.8
27	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	7.0	9.8	12.9	16.3	20.4	22.7	27.3	32.4	37.6
28	0.1	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	6.9	9.5	12.9	16.5	20.8	23.2	28.1	33.8	39.5
29	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	9.2	12.8	16.7	21.2	23.7	28.9	35.0	41.4
30	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.4	3.3	4.6	6.6	9.0	12.5	16.8	21.5	24.1	29.6	36.2	43.3
31	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	8.8	12.1	16.8	21.8	24.5	30.2	37.3	45.0
32	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	6.3	8.6	11.8	16.6	22.0	24.9	30.8	38.3	46.7
33	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	8.4	11.6	16.3	22.1	25.2	31.3	39.2	48.2
34	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	6.0	8.3	11.3	15.8	22.1	25.4	31.8	40.0	49.6
35	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	2.9	4.0	5.8	8.1	11.1	15.4	21.9	25.4	32.2	40.7	50.9
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	7.9	10.9	15.1	21.5	25.2	32.6	41.4	52.0
37	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	2.7	3.8	5.5	7.7	10.7	14.8	20.8	24.9	32.8	42.0	53.0
38	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	10.4	14.5	20.4	24.3	32.8	42.6	54.0
39	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	10.2	14.2	19.9	23.7	32.6	43.1	54.9
40	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	3.5	5.0	7.1	9.9	13.9	19.5	23.2	32.0	43.4	55.7
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	1.7	2.4	3.3	4.9	6.9	9.7	13.6	19.2	22.7	31.2	43.4	56.4
42	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	4.8	6.7	9.4	13.3	18.8	22.2	30.5	43.1	57.1
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.5	9.2	13.0	18.5	21.8	29.9	42.5	57.5
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.2	3.1	4.5	6.4	8.9	12.7	18.1	21.5	29.3	41.6	57.6
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	1.5	2.1	3.0	4.4	6.2	8.7	12.4	17.7	21.1	28.8	40.6	57.3
46	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	4.2	6.0	8.5	12.1	17.3	20.6	28.3	39.8	56.7
47	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	4.1	5.8	8.3	11.8	16.9	20.2	27.8	39.0	55.5
48	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	8.1	11.5	16.5	19.7	27.3	38.3	54.2
49	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	2.6	3.9	5.5	7.8	11.2	16.1	19.3	26.8	37.7	53.2
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.8	26.2	37.1	52.2

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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 42 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.3	1.8	2.5	3.7	5.2	7.4	10.7	15.3	18.4	25.6	36.5	51.3
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.7	2.4	3.6	5.1	7.2	10.4	15.0	17.9	25.1	35.8	50.4
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.0	7.0	10.1	14.6	17.5	24.5	35.1	49.7
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	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.1	24.0	34.4	49.0
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	1.2	1.6	2.3	3.3	4.7	6.7	9.6	13.9	16.7	23.4	33.7	48.1
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	3.2	4.5	6.5	9.3	13.6	16.4	22.9	33.0	47.2
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.1	13.2	15.9	22.4	32.2	46.3
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	3.1	4.3	6.1	8.9	12.9	15.5	21.9	31.5	45.4
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	2.1	3.0	4.2	6.0	8.7	12.6	15.1	21.4	30.8	44.5
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	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.2	43.6
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	5.7	8.2	12.0	14.4	20.4	29.5	42.7
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.5	8.0	11.7	14.1	19.8	28.9	41.8
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	2.8	3.9	5.4	7.8	11.4	13.8	19.4	28.3	40.9
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	1.6	2.0	2.8	3.8	5.3	7.6	11.1	13.5	19.0	27.7	40.1
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	2.8	3.8	5.2	7.4	10.8	13.1	18.6	27.0	39.2
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	2.8	3.7	5.1	7.3	10.5	12.8	18.2	26.3	38.5
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	2.8	3.7	5.0	7.1	10.3	12.4	17.7	25.8	37.7
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	3.7	5.0	7.0	10.1	12.1	17.3	25.2	36.8
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	2.0	2.7	3.7	4.9	6.9	9.9	11.9	16.9	24.8	36.0
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	3.6	4.8	6.7	9.7	11.6	16.5	24.2	35.2
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.6	4.8	6.7	9.5	11.4	16.1	23.7	34.4
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	3.6	4.8	6.6	9.3	11.1	15.7	23.1	33.8
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	3.6	4.8	6.5	9.2	10.9	15.4	22.6	33.2
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	3.6	4.8	6.4	9.0	10.7	15.1	22.0	32.5
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	4.7	6.4	8.9	10.6	14.8	21.5	31.8
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	3.6	4.7	6.4	8.8	10.4	14.5	21.1	31.0
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	4.7	6.3	8.7	10.3	14.2	20.7	30.3
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	4.7	6.3	8.6	10.2	14.0	20.3	29.6
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	2.3	2.9	3.7	4.7	6.3	8.6	10.0	13.8	19.9	29.0
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	1.8	2.3	3.0	3.8	4.7	6.2	8.6	10.0	13.7	19.5	28.4
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	8.5	9.9	13.5	19.2	27.9
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	3.0	3.8	4.8	6.3	8.5	9.9	13.3	18.9	27.4
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	6.3	8.4	9.9	13.2	18.7	26.9
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	8.4	9.8	13.1	18.5	26.5
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	1.9	2.4	3.1	4.0	5.0	6.4	8.4	9.8	13.1	18.2	26.1
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	4.0	5.1	6.5	8.4	9.8	13.1	18.0	25.7
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	9.8	13.0	17.8	25.4
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	5.2	6.6	8.5	9.8	12.9	17.7	25.1
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	12.9	17.7	24.8
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	9.8	12.9	17.7	24.5
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	12.9	17.6	24.3
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	4.3	5.4	6.9	8.9	10.1	12.9	17.5	24.2
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	17.5	24.2
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	13.0	17.5	24.1
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	17.5	24.0
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	17.5	23.9
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	17.5	23.8
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	23.8
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	23.8
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	23.9

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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 43 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.4	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	12.0
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	9.2	10.5	12.3	14.7
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	9.8	11.1	13.0	15.4
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	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.7	3.5	4.4	5.4	6.6	7.7	8.7	9.9	11.1	11.8	13.3	15.3	18.0
14	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.6	3.5	4.4	5.5	6.8	8.0	9.2	10.5	11.8	12.6	14.1	16.2	19.0
15	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	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	0.2	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	0.2	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	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.7	5.1	7.3	9.9	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	0.2	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	0.1	0.2	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	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	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	0.1	0.2	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	0.1	0.2	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	0.1	0.2	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	0.1	0.2	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	0.1	0.2	0.3	0.3	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	0.1	0.2	0.2	0.3	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	0.1	0.2	0.2	0.3	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	0.1	0.2	0.2	0.3	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	0.1	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	20.4	24.4	32.6	42.1	53.3
38	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	10.2	14.2	20.0	23.7	32.5	42.6	54.2
39	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	5.1	7.1	10.0	14.0	19.6	23.2	32.1	43.0	55.0
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	1.7	2.4	3.4	4.9	6.9	9.7	13.7	19.2	22.7	31.4	43.1	55.8
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	1.6	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	0.1	0.2	0.2	0.3	0.4	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	0.2	0.2	0.3	0.4	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	57.2
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	1.5	2.1	3.0	4.4	6.2	8.7	12.4	17.7	21.1	28.8	40.6	57.1
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	2.0	2.9	4.3	6.0	8.5	12.1	17.4	20.7	28.2	39.8	56.6
46	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	4.1	5.9	8.3	11.8	17.0	20.2	27.8	39.0	55.6
47	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	8.1	11.5	16.5	19.8	27.3	38.3	54.2
48	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	2.6	3.9	5.5	7.9	11.2	16.2	19.3	26.8	37.7	53.2
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.8	18.9	26.2	37.1	52.2
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.4	10.7	15.4	18.4	25.7	36.5	51.3

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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 43 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.3	1.7	2.4	3.6	5.1	7.2	10.4	15.0	18.0	25.1	35.8	50.4
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.5	5.0	7.0	10.1	14.6	17.5	24.5	35.1	49.6
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.3	3.4	4.8	6.9	9.8	14.3	17.1	24.0	34.4	48.9
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.3	3.3	4.7	6.7	9.6	14.0	16.7	23.4	33.7	48.1
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.5	9.3	13.6	16.4	22.9	33.0	47.2
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.6	2.2	3.1	4.4	6.3	9.1	13.2	16.0	22.4	32.2	46.3
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.1	4.3	6.1	8.9	12.9	15.5	21.9	31.5	45.4
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.2	6.0	8.7	12.6	15.1	21.4	30.8	44.5
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	3.0	4.1	5.8	8.4	12.3	14.8	20.9	30.2	43.6
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.7	8.2	12.0	14.4	20.4	29.5	42.6
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.9	4.0	5.5	8.0	11.7	14.1	19.9	28.9	41.7
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.6	2.1	2.8	3.9	5.4	7.8	11.4	13.8	19.4	28.3	40.9
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.8	3.8	5.3	7.6	11.1	13.5	18.9	27.7	40.0
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.8	3.8	5.2	7.4	10.8	13.1	18.5	27.0	39.2
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	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	0.2	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	0.2	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	5.0	7.0	10.1	12.1	17.3	25.2	36.8
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	4.9	6.8	9.8	11.8	16.9	24.7	35.9
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.6	4.8	6.6	9.4	11.3	16.0	23.6	34.4
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.6	4.8	6.5	9.3	11.1	15.7	23.1	33.7
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.6	4.7	6.4	9.0	10.7	15.0	22.0	32.4
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	3.6	4.7	6.3	8.9	10.5	14.7	21.5	31.7
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	4.7	6.3	8.7	10.4	14.5	21.0	31.0
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	4.7	6.3	8.6	10.3	14.2	20.6	30.3
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	4.7	6.3	8.5	10.1	14.0	20.2	29.6
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	4.7	6.2	8.5	10.0	13.8	19.8	28.9
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	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	0.2	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	8.5	9.8	13.4	19.1	27.8
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	2.3	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	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.4	9.8	13.1	18.6	26.8
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.2	8.3	9.7	13.0	18.4	26.4
84	0.1	0.1	0.2	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	9.7	13.0	18.1	26.0
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	4.0	5.0	6.4	8.3	9.7	13.0	17.9	25.6
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	8.4	9.7	12.9	17.7	25.3
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	3.2	4.0	5.1	6.5	8.4	9.7	12.8	17.6	25.0
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	12.8	17.6	24.7
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	5.2	6.7	8.6	9.7	12.8	17.6	24.4
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	12.8	17.5	24.1
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	12.8	17.4	24.0
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	17.3	24.0
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	17.3	24.0
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	17.3	23.9
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	17.3	23.7
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	23.7
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	23.6
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	4.5	5.7	7.3	9.4	10.7	13.6	17.7	23.7
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	23.7
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

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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 44 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.4	2.7	3.0	3.3	3.7	4.1	4.7	5.4	5.8	6.8	8.2	10.1
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	3.2	3.6	3.9	4.4	5.0	5.7	6.2	7.2	8.6	10.6
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	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.1
4	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	1.9	2.4	2.8	3.2	3.6	4.1	4.5	5.0	5.7	6.5	7.0	8.0	9.6	11.6
5	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	2.0	2.4	3.0	3.4	3.9	4.4	4.8	5.4	6.0	6.9	7.4	8.5	10.1	12.2
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	3.1	3.6	4.1	4.7	5.2	5.7	6.5	7.3	7.9	9.0	10.6	12.8
7	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	5.5	6.1	6.9	7.8	8.4	9.5	11.2	13.5
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	3.2	3.9	4.6	5.3	5.9	6.6	7.3	8.3	8.9	10.1	11.9	14.2
9	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	4.8	5.6	6.3	7.0	7.8	8.9	9.4	10.7	12.5	14.9
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	5.0	5.9	6.7	7.5	8.4	9.4	10.0	11.4	13.3	15.7
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	5.1	6.2	7.1	8.0	8.9	10.0	10.7	12.1	14.0	16.6
12	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	4.3	5.3	6.4	7.5	8.4	9.5	10.7	11.4	12.8	14.8	17.5
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	6.6	7.8	8.9	10.1	11.4	12.1	13.6	15.7	18.4
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	6.8	8.1	9.4	10.7	12.1	12.9	14.5	16.6	19.4
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	8.4	9.9	11.3	12.9	13.7	15.4	17.6	20.5
16	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	5.7	7.2	8.7	10.3	12.0	13.7	14.6	16.3	18.6	21.7
17	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.5	5.7	7.3	8.9	10.7	12.6	14.5	15.5	17.3	19.8	22.9
18	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	7.4	9.1	11.1	13.2	15.3	16.3	18.4	20.9	24.2
19	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	7.5	9.3	11.4	13.7	16.1	17.2	19.6	22.2	25.5
20	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	4.1	5.7	7.6	9.5	11.7	14.2	16.9	18.2	20.6	23.5	27.0
21	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	7.7	9.6	11.9	14.6	17.6	19.1	21.7	24.9	28.5
22	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	3.9	5.4	7.6	9.8	12.1	15.0	18.2	19.9	22.9	26.4	30.2
23	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	7.5	9.9	12.3	15.3	18.8	20.6	24.1	27.8	31.9
24	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	9.9	12.5	15.6	19.4	21.3	25.1	29.2	33.8
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	3.7	5.0	7.1	9.8	12.6	15.9	19.8	22.0	26.1	30.7	35.6
26	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	6.9	9.6	12.7	16.1	20.2	22.5	27.0	32.2	37.4
27	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	16.4	20.6	23.0	27.9	33.5	39.2
28	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	12.6	16.5	21.0	23.5	28.7	34.8	41.2
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	3.3	4.5	6.5	8.9	12.3	16.6	21.3	23.9	29.3	35.9	43.1
30	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	16.6	21.6	24.3	29.9	37.0	44.7
31	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	4.3	6.2	8.5	11.7	16.4	21.8	24.6	30.5	38.0	46.3
32	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.3	11.4	16.0	21.9	24.9	31.0	38.9	47.8
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	2.1	2.9	4.1	5.9	8.1	11.1	15.5	21.8	25.1	31.5	39.6	49.2
34	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	15.2	21.6	25.1	31.9	40.4	50.5
35	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	2.7	3.8	5.6	7.8	10.7	14.8	21.1	24.9	32.2	41.0	51.6
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	1.9	2.6	3.7	5.4	7.6	10.5	14.5	20.5	24.5	32.4	41.6	52.6
37	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	7.4	10.2	14.2	20.0	23.8	32.3	42.2	53.5
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	1.8	2.5	3.5	5.1	7.2	10.0	14.0	19.6	23.3	32.1	42.6	54.4
39	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	9.7	13.7	19.2	22.8	31.5	42.8	55.2
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	3.3	4.8	6.8	9.5	13.4	18.8	22.3	30.6	42.8	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	1.6	2.3	3.2	4.7	6.6	9.2	13.1	18.5	21.9	30.0	42.5	56.5
42	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	4.5	6.4	9.0	12.8	18.2	21.5	29.4	41.8	56.8
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.8	12.5	17.8	21.1	28.8	40.7	56.8
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	2.9	4.3	6.1	8.5	12.1	17.4	20.7	28.3	39.9	56.5
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	2.0	2.8	4.2	5.9	8.3	11.8	17.0	20.3	27.8	39.1	55.7
46	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	4.1	5.7	8.1	11.5	16.6	19.8	27.3	38.3	54.4
47	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	2.6	3.9	5.5	7.9	11.2	16.2	19.4	26.8	37.6	53.2
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.7	11.0	15.8	18.9	26.3	37.0	52.2
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.4	10.7	15.4	18.5	25.7	36.5	51.3
50	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

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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 44 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.0	1.3	1.7	2.1	2.7	3.5	4.7	6.4	9.1	10.9	15.3	22.5	33.0
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	19.1	27.7
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	2.3	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	3.0	3.8	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	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	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	1.5	1.9	2.4	3.1	4.0	5.0	6.4	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	4.0	5.1	6.5	8.3	9.6	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	4.0	5.1	6.5	8.4	9.6	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	1.2	1.6	2.0	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.7	17.5	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	3.3	4.1	5.2	6.7	8.6	9.7	12.7	17.4	24.0
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

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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 45 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	10.8
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	11.3
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	1.1	1.5	2.1	2.6	3.3	4.1	4.8	5.7	6.4	7.2	8.0	9.1	9.7	11.0	12.8	15.2
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	16.1
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	13.2	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	1.7	2.3	3.3	4.5	5.7	7.2	8.8	10.5	12.2	14.0	15.0	16.7	19.1	22.1
17	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.7	7.3	9.0	10.8	12.8	14.8	15.8	17.8	20.2	23.4
18	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.8	7.4	9.2	11.2	13.4	15.6	16.7	18.9	21.4	24.7
19	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.0	4.2	5.7	7.5	9.4	11.5	13.9	16.4	17.6	20.0	22.7	26.1
20	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	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	1.5	2.0	2.9	4.0	5.5	7.6	9.7	12.0	14.7	17.8	19.4	22.2	25.6	29.2
22	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.3	7.6	9.8	12.2	15.1	18.4	20.2	23.4	26.9	30.9
23	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.8	5.2	7.4	9.8	12.4	15.4	19.0	20.9	24.5	28.3	32.7
24	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.7	3.7	5.0	7.2	9.8	12.5	15.7	19.5	21.5	25.5	29.8	34.6
25	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	7.0	9.7	12.6	15.9	19.9	22.1	26.5	31.3	36.3
26	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.5	3.5	4.8	6.8	9.4	12.7	16.2	20.3	22.7	27.3	32.7	38.1
27	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.7	6.6	9.2	12.6	16.4	20.7	23.1	28.1	34.0	40.0
28	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.6	6.5	8.9	12.4	16.5	21.0	23.6	28.9	35.2	42.0
29	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.4	8.7	12.1	16.5	21.3	24.0	29.5	36.3	43.7
30	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.3	6.2	8.5	11.7	16.4	21.6	24.3	30.1	37.4	45.4
31	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.1	8.3	11.4	16.1	21.7	24.6	30.6	38.3	46.9
32	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.2	11.2	15.6	21.7	24.9	31.1	39.1	48.3
33	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.7	8.0	10.9	15.2	21.6	24.9	31.5	39.8	49.6
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.6	7.8	10.7	14.9	21.2	24.8	31.9	40.5	50.8
35	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.4	7.6	10.5	14.6	20.6	24.5	32.2	41.1	51.8
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.3	7.4	10.3	14.3	20.1	24.0	32.7	41.7	52.8
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.0	14.0	19.7	23.3	32.0	42.2	53.7
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.8	13.7	19.3	22.8	31.6	42.5	54.5
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.3	4.8	6.8	9.5	13.4	18.9	22.4	30.8	42.6	55.3
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.6	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	0.2	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	0.3	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	0.3	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	0.3	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	0.3	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	0.3	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	49.5

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TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.6	5.0	7.1	10.3	12.5	17.7	25.7	37.6
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	2.7	3.6	4.9	6.9	10.1	12.1	17.3	25.2	36.8
66	0.1	0.1	0.1	0.2	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	6.8	9.8	11.8	16.9	24.6	36.0
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	4.8	6.7	9.6	11.6	16.5	24.2	35.1
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	4.7	6.6	9.4	11.3	16.0	23.6	34.3
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	3.5	4.7	6.5	9.2	11.1	15.6	23.1	33.6
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	6.4	9.1	10.9	15.3	22.5	33.0
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.5	4.7	6.3	8.9	10.7	15.0	22.0	32.4
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	4.6	6.3	8.8	10.5	14.7	21.4	31.6
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	4.6	6.2	8.7	10.3	14.4	21.0	30.9
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	6.2	8.6	10.2	14.1	20.5	30.2
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	6.2	8.5	10.0	13.9	20.1	29.5
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	6.1	8.4	9.9	13.7	19.7	28.8
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	6.1	8.4	9.8	13.5	19.4	28.2
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	6.1	8.4	9.7	13.3	19.0	27.7
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	6.1	8.3	9.7	13.1	18.7	27.2
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	6.1	8.3	9.7	13.0	18.5	26.7
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	6.1	8.2	9.6	12.9	18.2	26.2
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	3.0	3.8	4.8	6.2	8.2	9.6	12.8	18.0	25.8
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	6.3	8.2	9.5	12.8	17.8	25.4
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	3.1	3.9	4.9	6.3	8.2	9.5	12.7	17.6	25.1
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	4.0	5.0	6.4	8.2	9.5	12.7	17.4	24.7
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	6.5	8.3	9.5	12.6	17.3	24.5
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	12.6	17.4	24.2
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	3.2	4.1	5.2	6.6	8.5	9.7	12.6	17.3	23.9
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	12.6	17.2	23.7
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	17.1	23.6
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	17.1	23.7
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	17.1	23.6
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	17.1	23.4
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	4.3	5.5	7.0	9.0	10.3	13.1	17.1	23.3
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	23.3
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	23.3
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	23.3
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	4.6	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

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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 46 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.2	2.5	2.8	3.1	3.5	3.9	4.3	4.9	5.6	6.1	7.0	8.5	10.4
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	4.1	4.6	5.2	6.0	6.4	7.5	8.9	10.9
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	4.4	4.9	5.6	6.4	6.8	7.9	9.4	11.5
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	4.8	5.3	5.9	6.8	7.3	8.4	9.9	12.1
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	5.1	5.7	6.3	7.2	7.7	8.9	10.5	12.7
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	4.3	4.9	5.5	6.0	6.8	7.7	8.2	9.4	11.1	13.3
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	5.8	6.5	7.2	8.2	8.7	10.0	11.7	14.0
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	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.8
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	6.6	7.4	8.2	9.3	9.9	11.2	13.1	15.5
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	7.0	7.9	8.8	9.9	10.5	11.9	13.8	16.4
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	7.4	8.3	9.4	10.5	11.2	12.7	14.6	17.3
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	7.7	8.8	10.0	11.2	11.9	13.4	15.5	18.2
13	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	5.4	6.8	8.0	9.3	10.6	12.0	12.7	14.3	16.4	19.2
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	8.3	9.8	11.2	12.8	13.5	15.2	17.4	20.3
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	8.6	10.2	11.8	13.5	14.4	16.1	18.4	21.4
16	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	4.4	5.7	7.2	8.8	10.6	12.5	14.3	15.3	17.1	19.5	22.6
17	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	4.4	5.7	7.3	9.0	10.9	13.0	15.1	16.1	18.2	20.7	23.9
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	9.2	11.3	13.5	15.9	17.0	19.3	22.0	25.3
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	9.4	11.5	14.0	16.7	18.0	20.4	23.3	26.7
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	9.5	11.8	14.4	17.4	18.9	21.5	24.7	28.3
21	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	9.7	12.0	14.8	18.0	19.7	22.7	26.1	29.9
22	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	9.8	12.2	15.1	18.6	20.4	23.8	27.5	31.6
23	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	9.8	12.4	15.5	19.2	21.1	24.9	28.9	33.5
24	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	12.5	15.7	19.6	21.7	25.9	30.4	35.3
25	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.9	9.5	12.6	16.0	20.0	22.3	26.8	31.9	37.1
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	9.2	12.6	16.2	20.4	22.8	27.6	33.2	38.9
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	3.3	4.6	6.5	9.0	12.4	16.4	20.8	23.2	28.4	34.5	40.8
28	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	8.8	12.2	16.4	21.1	23.7	29.0	35.6	42.7
29	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	6.3	8.6	11.8	16.4	21.4	24.0	29.6	36.7	44.4
30	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	8.4	11.5	16.2	21.6	24.4	30.2	37.7	46.0
31	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.2	11.2	15.8	21.6	24.6	30.7	38.5	47.4
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	2.0	2.8	4.0	5.8	8.0	11.0	15.3	21.5	24.8	31.2	39.2	48.8
33	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	2.8	3.9	5.6	7.8	10.8	15.0	21.3	24.8	31.6	40.0	50.0
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	1.9	2.7	3.8	5.5	7.6	10.6	14.6	20.8	24.6	31.9	40.6	51.1
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	1.8	2.6	3.7	5.3	7.4	10.3	14.3	20.2	24.1	32.0	41.2	52.1
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	1.8	2.5	3.6	5.2	7.2	10.1	14.0	19.8	23.4	31.9	41.7	53.0
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.8	13.8	19.3	22.9	31.6	42.2	53.9
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	6.8	9.6	13.5	18.9	22.4	31.0	42.3	54.6
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	3.2	4.7	6.7	9.3	13.2	18.6	22.0	30.2	42.3	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	2.2	3.1	4.6	6.5	9.1	12.9	18.2	21.5	29.5	41.9	55.9
41	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.5	6.3	8.9	12.6	17.9	21.1	28.9	41.1	56.2
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	4.3	6.1	8.6	12.2	17.5	20.8	28.3	40.1	56.1
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.1	20.4	27.8	39.2	55.7
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	1.9	2.8	4.1	5.8	8.2	11.6	16.7	19.9	27.3	38.5	54.8
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.3	1.9	2.7	4.0	5.6	8.0	11.3	16.3	19.5	26.9	37.7	53.4
46	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	3.9	5.4	7.7	11.0	15.9	19.0	26.4	37.0	52.3
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.5	10.8	15.5	18.6	25.8	36.4	51.3
48	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	2.5	3.6	5.2	7.3	10.5	15.1	18.1	25.2	35.9	50.4
49	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	10.2	14.7	17.7	24.7	35.2	49.5
50	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	14.4	17.2	24.1	34.5	48.7

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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 46 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.6	2.3	3.3	4.7	6.8	9.7	14.0	16.8	23.6	33.8	48.0
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	1.2	1.6	2.2	3.2	4.6	6.6	9.4	13.7	16.4	23.0	33.1	47.2
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	4.5	6.4	9.2	13.4	16.1	22.5	32.4	46.3
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	2.1	3.1	4.3	6.2	9.0	13.0	15.7	21.9	31.7	45.4
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	3.0	4.2	6.0	8.7	12.6	15.3	21.4	30.9	44.5
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	1.6	2.1	3.0	4.1	5.8	8.5	12.3	14.8	21.0	30.3	43.6
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	1.2	1.5	2.0	2.9	4.0	5.7	8.3	12.1	14.5	20.5	29.6	42.7
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	2.9	3.9	5.6	8.0	11.8	14.1	20.0	28.9	41.8
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	2.8	3.9	5.4	7.8	11.5	13.8	19.5	28.3	40.9
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	3.8	5.3	7.6	11.2	13.5	19.0	27.7	40.0
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	2.0	2.7	3.7	5.2	7.4	10.9	13.2	18.5	27.1	39.2
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	5.1	7.3	10.6	12.8	18.2	26.4	38.4
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.6	5.0	7.1	10.3	12.5	17.8	25.8	37.6
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	2.7	3.6	4.9	6.9	10.1	12.1	17.3	25.2	36.9
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	4.8	6.8	9.8	11.8	16.9	24.6	36.0
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	4.8	6.7	9.6	11.6	16.5	24.2	35.1
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	3.5	4.7	6.6	9.4	11.3	16.1	23.6	34.3
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	3.5	4.7	6.5	9.2	11.1	15.7	23.1	33.6
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	3.5	4.7	6.4	9.1	10.9	15.3	22.5	32.9
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	4.6	6.3	8.9	10.6	15.0	22.0	32.4
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.5	4.6	6.2	8.8	10.5	14.7	21.4	31.7
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	1.3	1.7	2.1	2.7	3.5	4.6	6.2	8.7	10.3	14.4	20.9	30.9
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	4.6	6.2	8.5	10.1	14.1	20.5	30.2
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	6.2	8.4	10.0	13.9	20.1	29.5
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	6.1	8.3	9.9	13.6	19.7	28.8
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	3.6	4.6	6.1	8.3	9.7	13.4	19.3	28.2
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	6.1	8.3	9.7	13.3	19.0	27.7
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	6.1	8.3	9.6	13.1	18.7	27.1
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	6.1	8.2	9.6	12.9	18.4	26.6
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	6.1	8.2	9.6	12.8	18.1	26.2
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	6.1	8.2	9.5	12.7	17.9	25.7
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	3.0	3.8	4.8	6.2	8.2	9.5	12.7	17.7	25.3
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	6.3	8.2	9.5	12.7	17.5	25.0
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	8.2	9.5	12.6	17.3	24.7
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	4.0	5.0	6.4	8.2	9.5	12.5	17.2	24.4
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	4.0	5.1	6.5	8.3	9.5	12.5	17.2	24.1
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	12.5	17.2	23.8
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	12.5	17.1	23.6
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	17.0	23.5
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	12.5	17.0	23.5
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	17.0	23.4
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	17.0	23.3
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	17.0	23.2
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	17.0	23.1
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	23.1
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	23.2
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	5.7	7.2	9.3	10.6	13.5	17.6	23.2
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	4.6	5.8	7.4	9.5	10.8	13.7	17.9	23.4
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

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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 47 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.9	1.2	1.5	1.8	2.2	2.6	2.9	3.2	3.6	4.0	4.4	5.0	5.8	6.2	7.2	8.6	10.6
2	0.1	0.1	0.2	0.3	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.1	3.4	3.8	4.2	4.7	5.3	6.1	6.6	7.6	9.1	11.1
3	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	1.9	2.4	2.8	3.3	3.7	4.1	4.5	5.1	5.7	6.5	7.0	8.1	9.6	11.7
4	0.1	0.1	0.2	0.2	0.3	0.5	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	8.5	10.1	12.3
5	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
6	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
7	0.1	0.1	0.1	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
8	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.3	4.0	4.8	5.6	6.3	7.1	7.9	8.9	9.5	10.8	12.6	15.0
9	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	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
10	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	4.2	5.1	6.2	7.1	8.0	9.0	10.1	10.8	12.2	14.1	16.7
11	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.3	5.2	6.4	7.5	8.5	9.6	10.8	11.5	12.9	15.0	17.6
12	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.6	3.5	4.3	5.3	6.6	7.8	9.0	10.2	11.5	12.2	13.8	15.8	18.6
13	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	4.4	5.5	6.8	8.1	9.5	10.8	12.3	13.0	14.6	16.8	19.6
14	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	7.0	8.4	9.9	11.4	13.1	13.9	15.5	17.8	20.7
15	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	4.4	5.6	7.1	8.7	10.3	12.1	13.8	14.8	16.5	18.8	21.9
16	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.4	5.7	7.2	8.9	10.7	12.7	14.6	15.6	17.5	20.0	23.1
17	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.7	7.4	9.1	11.0	13.2	15.4	16.5	18.6	21.2	24.4
18	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	4.1	5.7	7.5	9.3	11.3	13.7	16.2	17.4	19.7	22.5	25.8
19	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	7.5	9.4	11.6	14.1	16.9	18.3	20.8	23.8	27.3
20	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	3.9	5.4	7.5	9.5	11.8	14.6	17.6	19.2	21.9	25.3	28.9
21	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	7.5	9.7	12.0	14.9	18.2	19.9	23.1	26.7	30.6
22	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	9.7	12.2	15.2	18.8	20.7	24.2	28.1	32.4
23	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	5.0	7.1	9.7	12.4	15.5	19.3	21.3	25.2	29.5	34.2
24	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	3.5	4.9	6.9	9.6	12.5	15.8	19.7	21.9	26.2	31.0	36.0
25	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	4.8	6.7	9.3	12.5	16.0	20.1	22.4	27.1	32.4	37.8
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	3.3	4.6	6.6	9.1	12.5	16.2	20.5	22.9	27.9	33.7	39.7
27	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	6.4	8.8	12.3	16.3	20.8	23.3	28.6	34.9	41.6
28	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	4.4	6.3	8.6	11.9	16.3	21.1	23.7	29.2	36.0	43.3
29	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.2	3.1	4.3	6.1	8.4	11.6	16.2	21.4	24.1	29.8	37.0	45.0
30	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.2	11.3	15.9	21.5	24.4	30.3	37.9	46.5
31	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.9	8.1	11.0	15.4	21.5	24.6	30.8	38.7	47.9
32	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.7	7.9	10.8	15.1	21.3	24.7	31.2	39.4	49.2
33	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	2.7	3.8	5.5	7.7	10.6	14.7	20.9	24.6	31.6	40.1	50.3
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.7	5.4	7.5	10.4	14.4	20.3	24.2	31.8	40.7	51.3
35	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	14.1	19.8	23.7	31.8	41.3	52.3
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	3.5	5.1	7.1	9.9	13.8	19.4	23.0	31.6	41.7	53.2
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	3.4	4.9	6.9	9.6	13.6	19.0	22.5	31.2	42.1	54.0
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.8	6.7	9.4	13.2	18.6	22.0	30.4	42.1	54.7
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	6.5	9.2	12.9	18.3	21.6	29.6	41.9	55.3
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.1	4.5	6.3	8.9	12.6	18.0	21.2	29.0	41.3	55.8
41	0.1	0.1	0.1	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	12.3	17.6	20.8	28.4	40.3	55.8
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	1.4	2.0	2.9	4.2	6.0	8.4	12.0	17.2	20.4	27.9	39.4	55.6
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.7	16.8	20.0	27.4	38.6	54.9
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	1.9	2.7	4.0	5.6	8.0	11.4	16.4	19.5	26.9	37.8	53.8
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.9	5.5	7.8	11.1	16.0	19.1	26.4	37.1	52.5
46	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	3.8	5.3	7.6	10.8	15.6	18.6	25.9	36.5	51.4
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.3	10.5	15.2	18.2	25.3	35.9	50.5
48	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	5.1	7.1	10.3	14.8	17.7	24.8	35.3	49.6
49	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	10.0	14.4	17.3	24.2	34.6	48.7
50	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	4.8	6.8	9.7	14.1	16.9	23.6	33.9	48.0

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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 47 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.6	2.2	3.2	4.6	6.6	9.4	13.8	16.5	23.1	33.2	47.3
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.2	3.2	4.5	6.4	9.2	13.4	16.1	22.5	32.4	46.4
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	3.1	4.4	6.2	9.0	13.0	15.7	22.0	31.7	45.5
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	1.2	1.5	2.1	3.0	4.2	6.1	8.8	12.7	15.3	21.5	31.0	44.6
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	1.2	1.5	2.1	3.0	4.1	5.9	8.5	12.4	14.9	21.0	30.3	43.7
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	1.2	1.5	2.0	2.9	4.0	5.7	8.3	12.1	14.5	20.6	29.6	42.8
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	1.2	1.5	2.0	2.8	4.0	5.6	8.1	11.8	14.2	20.0	29.0	41.9
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	3.9	5.4	7.8	11.5	13.8	19.5	28.3	41.0
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	2.8	3.8	5.3	7.6	11.2	13.5	19.0	27.8	40.1
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	1.5	2.0	2.7	3.7	5.2	7.4	10.9	13.2	18.6	27.1	39.2
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	2.0	2.7	3.7	5.1	7.3	10.6	12.9	18.2	26.5	38.4
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	2.0	2.7	3.6	5.0	7.1	10.3	12.5	17.8	25.8	37.6
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	2.0	2.7	3.6	4.9	6.9	10.1	12.2	17.4	25.2	36.9
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	2.7	3.5	4.8	6.8	9.8	11.9	17.0	24.7	36.1
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	3.5	4.8	6.7	9.6	11.6	16.5	24.2	35.2
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	3.5	4.7	6.6	9.4	11.3	16.1	23.7	34.4
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.5	4.6	6.5	9.2	11.1	15.7	23.1	33.6
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	3.5	4.6	6.4	9.1	10.9	15.3	22.6	32.9
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.6	3.5	4.6	6.3	8.9	10.6	15.0	22.0	32.3
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	4.6	6.2	8.8	10.4	14.7	21.5	31.7
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	3.5	4.6	6.2	8.6	10.3	14.4	21.0	31.0
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	4.5	6.1	8.5	10.1	14.1	20.5	30.3
73	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	2.1	2.8	3.5	4.5	6.1	8.4	10.0	13.8	20.1	29.6
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	4.5	6.1	8.3	9.8	13.6	19.7	28.9
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	4.5	6.0	8.3	9.7	13.4	19.3	28.2
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	4.5	6.0	8.3	9.6	13.2	19.0	27.6
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	6.0	8.2	9.6	13.1	18.6	27.1
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	4.7	6.0	8.2	9.6	12.9	18.4	26.6
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	2.3	2.9	3.7	4.7	6.0	8.1	9.5	12.7	18.1	26.1
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	6.1	8.1	9.5	12.6	17.9	25.7
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	6.1	8.1	9.4	12.6	17.7	25.3
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	3.0	3.8	4.8	6.2	8.1	9.4	12.6	17.4	24.9
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	6.3	8.1	9.4	12.5	17.2	24.6
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	8.2	9.4	12.5	17.1	24.3
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	3.1	4.0	5.0	6.4	8.2	9.4	12.4	17.1	24.0
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	12.4	17.1	23.7
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	12.4	17.0	23.5
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	12.4	16.9	23.4
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	12.4	16.8	23.3
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	12.5	16.8	23.3
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	4.2	5.3	6.8	8.8	10.0	12.7	16.8	23.2
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	16.9	23.1
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	5.4	6.9	9.0	10.2	12.9	16.9	23.0
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	17.0	23.0
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	23.0
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	23.0
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	23.2
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

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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 48 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	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	0.5	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	0.5	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	0.5	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	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.1	3.7	4.2	4.8	5.3	5.9	6.6	7.6	8.1	9.2	10.9	13.1
6	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.2	3.8	4.4	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8
7	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	3.9	4.6	5.4	6.1	6.8	7.6	8.6	9.1	10.4	12.2	14.5
8	0.1	0.1	0.1	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	0.3	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	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.1	6.2	7.3	8.2	9.2	10.4	11.0	12.5	14.4	17.0
11	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.4	4.3	5.3	6.5	7.6	8.7	9.8	11.1	11.7	13.2	15.3	18.0
12	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.3	5.4	6.7	7.9	9.2	10.4	11.8	12.5	14.1	16.2	18.9
13	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	6.8	8.2	9.6	11.0	12.6	13.3	14.9	17.1	20.0
14	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.3	3.3	4.4	5.6	7.0	8.5	10.1	11.7	13.3	14.2	15.9	18.2	21.1
15	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.2	4.4	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	0.2	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	0.2	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	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.6	7.5	9.3	11.4	13.8	16.5	17.7	20.1	23.0	26.4
19	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	7.5	9.4	11.6	14.3	17.2	18.6	21.2	24.4	27.9
20	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.3	7.5	9.6	11.9	14.7	17.8	19.4	22.4	25.8	29.5
21	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	9.7	12.1	15.0	18.4	20.2	23.6	27.2	31.3
22	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	9.7	12.2	15.3	19.0	20.9	24.6	28.6	33.1
23	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	9.6	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	0.2	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	0.2	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	27.3	32.9	38.5
26	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	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.6	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	0.2	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	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.3	11.4	16.0	21.3	24.1	29.9	37.3	45.5
30	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.9	8.3	11.8	16.8	20.1	27.4	38.7	55.0
43	0.1	0.1	0.1	0.1	0.2	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	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.7	18.7	26.0	36.5	51.6
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.2	7.4	10.6	15.3	18.3	25.4	35.9	50.6
47	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	0.2	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	48.8
49	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	0.2	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

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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 40 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.6	2.2	3.2	4.5	6.5	9.2	13.5	16.2	22.6	32.5	46.5
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.6	2.1	3.1	4.4	6.3	9.0	13.1	15.8	22.1	31.8	45.6
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0	4.3	6.1	8.8	12.7	15.4	21.6	31.1	44.7
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0	4.2	5.9	8.6	12.4	15.0	21.1	30.4	43.8
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.9	4.1	5.7	8.3	12.1	14.6	20.6	29.7	42.9
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.8	4.0	5.6	8.1	11.8	14.2	20.1	29.1	42.0
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.5	7.9	11.6	13.9	19.6	28.4	41.1
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.8	3.8	5.3	7.6	11.3	13.6	19.1	27.8	40.2
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.2	7.5	11.0	13.2	18.6	27.2	39.3
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.1	7.3	10.7	12.9	18.2	26.6	38.5
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.6	5.0	7.1	10.4	12.6	17.8	25.9	37.7
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.6	4.9	7.0	10.1	12.2	17.4	25.3	36.9
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.7	3.5	4.8	6.8	9.9	11.9	17.0	24.7	36.1
64	0.1	0.1	0.1	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.5	4.7	6.6	9.4	11.3	16.1	23.7	34.4
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	3.5	4.6	6.5	9.2	11.1	15.7	23.2	33.7
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	3.5	4.6	6.4	9.1	10.9	15.3	22.6	33.0
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	3.4	4.6	6.3	8.9	10.6	15.0	22.1	32.3
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	2.6	3.4	4.6	6.2	8.8	10.4	14.7	21.5	31.7
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.6	10.3	14.4	21.0	31.0
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.5	10.1	14.1	20.5	30.3
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	3.4	4.5	6.1	8.4	10.0	13.8	20.1	29.6
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	4.5	6.1	8.3	9.8	13.6	19.7	28.9
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	4.5	6.0	8.2	9.7	13.4	19.3	28.2
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	4.5	6.0	8.2	9.6	13.2	18.9	27.6
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	4.5	6.0	8.2	9.5	13.0	18.6	27.1
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	6.0	8.1	9.5	12.9	18.3	26.6
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	4.7	6.0	8.1	9.5	12.7	18.1	26.1
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	6.0	8.1	9.4	12.6	17.8	25.6
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	6.1	8.1	9.4	12.5	17.6	25.2
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	6.1	8.0	9.3	12.5	17.4	24.9
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	3.0	3.8	4.8	6.2	8.1	9.3	12.5	17.2	24.5
83	0.1	0.1	0.1	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	12.3	17.0	23.9
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	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.3	17.0	23.6
86	0.1	0.1	0.2	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	12.3	16.9	23.4
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	12.3	16.8	23.2
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	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.7	23.2
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	4.1	5.2	6.7	8.6	9.8	12.4	16.7	23.2
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	12.5	16.7	23.1
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	16.7	23.0
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	16.8	22.9
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	22.8
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	17.0	22.8
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	22.9
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	23.0
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	23.2
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

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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 49 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.3	0.5	0.7	0.9	1.2	1.5	1.9	2.3	2.7	3.0	3.4	3.7	4.2	4.6	5.2	6.0	6.5	7.5	8.9	11.0
2	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.2	1.6	1.9	2.3	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.4	6.9	7.9	9.4	11.5
3	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	1.6	1.9	2.4	2.9	3.4	3.8	4.3	4.8	5.3	6.0	6.8	7.3	8.4	9.9	12.1
4	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.0	2.5	3.0	3.5	4.1	4.6	5.1	5.7	6.4	7.2	7.8	8.9	10.5	12.7
5	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.5	3.1	3.7	4.3	4.9	5.5	6.1	6.8	7.7	8.3	9.4	11.1	13.4
6	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.5	3.2	3.8	4.5	5.2	5.9	6.5	7.3	8.2	8.8	10.0	11.7	14.1
7	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	2.0	2.6	3.2	4.0	4.7	5.5	6.2	6.9	7.8	8.8	9.3	10.6	12.4	14.8
8	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.6	3.3	4.1	4.9	5.8	6.6	7.4	8.3	9.3	10.0	11.3	13.1	15.6
9	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.1	5.0	6.1	7.0	7.9	8.8	10.0	10.6	12.0	13.9	16.4
10	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.4	4.2	5.2	6.3	7.4	8.4	9.5	10.6	11.3	12.7	14.7	17.3
11	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.4	4.3	5.3	6.5	7.7	8.9	10.1	11.3	12.0	13.5	15.6	18.3
12	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.4	3.4	4.3	5.4	6.7	8.0	9.4	10.6	12.1	12.8	14.4	16.5	19.3
13	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.7	2.4	3.4	4.4	5.5	6.9	8.3	9.8	11.3	12.9	13.6	15.3	17.5	20.4
14	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.4	5.6	7.0	8.6	10.2	11.9	13.6	14.5	16.2	18.6	21.6
15	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.2	4.4	5.6	7.2	8.8	10.6	12.5	14.4	15.4	17.3	19.7	22.8
16	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.1	4.3	5.7	7.3	9.0	10.9	13.0	15.2	16.2	18.4	20.9	24.1
17	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	3.0	4.1	5.6	7.4	9.2	11.2	13.5	16.0	17.1	19.5	22.1	25.5
18	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.1	1.5	2.1	2.9	4.0	5.5	7.5	9.3	11.5	14.0	16.7	18.1	20.5	23.5	26.9
19	0.0	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.4	7.5	9.4	11.7	14.4	17.4	18.9	21.7	24.9	28.5
20	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.8	5.2	7.4	9.6	11.9	14.7	18.0	19.7	22.8	26.3	30.2
21	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.9	2.7	3.7	5.1	7.3	9.6	12.1	15.0	18.6	20.4	23.9	27.7	32.0
22	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	4.9	7.0	9.6	12.3	15.3	19.1	21.1	24.9	29.2	33.8
23	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.5	12.4	15.6	19.5	21.7	25.9	30.7	35.6
24	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.5	3.4	4.7	6.7	9.3	12.4	15.8	19.9	22.2	26.8	32.0	37.4
25	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.5	9.0	12.3	16.0	20.3	22.7	27.6	33.3	39.2
26	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.5	6.4	8.7	12.1	16.1	20.6	23.1	28.3	34.5	41.2
27	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.2	3.1	4.4	6.2	8.5	11.8	16.1	20.9	23.5	28.9	35.6	42.9
28	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.2	6.1	8.3	11.5	16.0	21.1	23.8	29.5	36.6	44.5
29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.1	11.2	15.7	21.3	24.1	30.0	37.5	46.0
30	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	4.0	5.8	8.0	10.9	15.3	21.3	24.4	30.5	38.3	47.4
31	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	1.9	2.8	3.9	5.6	7.8	10.7	14.9	21.1	24.4	30.9	39.0	48.7
32	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.4	7.6	10.5	14.5	20.7	24.3	31.2	39.7	49.9
33	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.6	5.3	7.4	10.3	14.2	20.1	24.0	31.5	40.3	50.8
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.8	2.5	3.5	5.1	7.2	10.0	13.9	19.6	23.4	31.5	40.9	51.8
35	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	5.0	7.0	9.8	13.6	19.2	22.7	31.3	41.3	52.7
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.7	2.3	3.3	4.8	6.8	9.5	13.4	18.8	22.2	30.8	41.6	53.4
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	1.6	2.3	3.2	4.7	6.6	9.3	13.1	18.4	21.8	30.0	41.6	54.2
38	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	41.4	54.8
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.8	12.5	17.7	20.9	28.6	40.8	55.2
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.3	6.1	8.5	12.1	17.3	20.6	28.0	39.8	55.2
41	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.2	5.9	8.3	11.8	16.9	20.1	27.5	38.8	54.9
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	1.4	1.9	2.8	4.0	5.7	8.1	11.5	16.5	19.7	27.0	38.0	54.2
43	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	1.9	2.7	3.9	5.6	7.9	11.2	16.1	19.3	26.6	37.3	53.0
44	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	10.9	15.7	18.8	26.1	36.6	51.7
45	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	7.4	10.6	15.3	18.4	25.5	36.0	50.7
46	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	10.4	15.0	17.9	24.9	35.4	49.8
47	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	24.4	34.8	48.9
48	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	14.2	17.0	23.8	34.1	48.1
49	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	4.7	6.7	9.5	13.9	16.6	23.3	33.4	47.3
50	0.1	0.1	0.1	0.1	0.2	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	9.3	13.6	16.2	22.7	32.6	46.6

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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 49 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.6	2.1	3.1	4.4	6.3	9.0	13.2	15.8	22.2	31.9	45.7
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.2	1.5	2.1	3.0	4.3	6.1	8.8	12.8	15.5	21.6	31.2	44.8
53	0.1	0.1	0.1	0.1	0.2	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	12.5	15.1	21.1	30.5	43.9
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	4.1	5.8	8.4	12.2	14.6	20.7	29.8	43.0
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	1.5	2.0	2.9	4.0	5.6	8.1	11.9	14.3	20.2	29.1	42.1
56	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.5	7.9	11.6	13.9	19.7	28.5	41.2
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	1.5	2.0	2.8	3.8	5.3	7.7	11.3	13.6	19.2	27.9	40.3
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.2	7.5	11.0	13.3	18.7	27.3	39.4
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	2.0	2.7	3.7	5.1	7.3	10.7	13.0	18.2	26.7	38.6
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.7	3.6	5.0	7.1	10.4	12.6	17.9	26.0	37.7
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.7	3.6	4.9	7.0	10.1	12.3	17.5	25.3	37.0
62	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.5	4.8	6.8	9.9	11.9	17.1	24.7	36.2
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.5	4.8	6.7	9.7	11.6	16.6	24.2	35.4
64	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.6	3.5	4.7	6.6	9.5	11.4	16.2	23.7	34.5
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	1.6	2.0	2.6	3.5	4.6	6.4	9.2	11.1	15.8	23.2	33.7
66	0.1	0.1	0.1	0.2	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	6.4	9.1	10.9	15.4	22.7	33.0
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	3.4	4.6	6.3	8.9	10.7	15.0	22.1	32.3
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	3.4	4.6	6.2	8.7	10.4	14.7	21.6	31.8
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	2.6	3.4	4.5	6.1	8.6	10.3	14.4	21.0	31.1
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.5	10.1	14.1	20.6	30.4
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.5	6.1	8.4	9.9	13.8	20.1	29.7
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	1.3	1.7	2.1	2.7	3.4	4.5	6.0	8.3	9.8	13.6	19.7	29.0
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.5	6.0	8.2	9.7	13.4	19.3	28.3
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	1.7	2.2	2.8	3.5	4.5	6.0	8.1	9.5	13.2	18.9	27.7
75	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.5	5.9	8.1	9.5	13.0	18.6	27.1
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	4.5	5.9	8.1	9.4	12.8	18.3	26.6
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	5.9	8.0	9.4	12.7	18.0	26.1
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	4.7	5.9	8.0	9.4	12.5	17.8	25.6
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	2.3	2.9	3.7	4.7	6.0	8.0	9.3	12.5	17.6	25.2
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	6.1	8.0	9.3	12.4	17.3	24.8
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	2.3	3.0	3.8	4.8	6.1	8.0	9.3	12.4	17.1	24.5
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	3.0	3.8	4.8	6.2	8.0	9.3	12.3	17.0	24.2
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.3	12.3	16.9	23.9
84	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	12.2	16.9	23.6
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	1.5	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.2	16.8	23.3
86	0.1	0.1	0.2	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	12.2	16.7	23.1
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	16.7	23.0
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	5.2	6.6	8.5	9.7	12.3	16.6	23.0
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	12.4	16.6	23.0
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	16.6	22.8
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	22.7
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	22.7
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	22.7
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	17.1	22.7
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	22.8
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	23.0
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	4.6	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

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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 50 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	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	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	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	3.6	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9
5	0.1	0.1	0.1	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	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	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.6	3.3	4.0	4.8	5.6	6.3	7.1	7.9	9.0	9.5	10.8	12.7	15.1
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	5.9	6.7	7.6	8.5	9.5	10.2	11.5	13.4	15.9
9	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	10.8	12.2	14.2	16.7
10	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.4	4.2	5.2	6.4	7.5	8.5	9.7	10.9	11.5	13.0	15.0	17.7
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	6.6	7.8	9.0	10.3	11.6	12.3	13.8	15.9	18.6
12	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.2	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	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	4.4	5.5	6.9	8.4	9.9	11.5	13.1	13.9	15.6	17.9	20.8
14	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	5.6	7.1	8.6	10.3	12.1	13.9	14.8	16.6	19.0	22.0
15	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	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	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	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	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	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	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	5.0	7.1	9.6	12.1	15.1	18.7	20.6	24.3	28.2	32.7
22	0.0	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	4.9	6.9	9.5	12.3	15.4	19.2	21.3	25.3	29.7	34.4
23	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
24	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.6	6.6	9.1	12.3	15.8	20.0	22.3	27.0	32.5	38.1
25	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
26	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.3	3.2	4.4	6.3	8.6	11.9	16.1	20.6	23.2	28.4	34.9	41.8
27	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	4.3	6.1	8.4	11.6	16.0	20.9	23.5	29.0	35.9	43.5
28	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.5	2.1	3.0	4.1	6.0	8.2	11.3	15.8	21.1	23.9	29.6	36.9	45.0
29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.9	4.0	5.8	8.0	11.0	15.4	21.2	24.1	30.1	37.7	46.5
30	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	7.9	10.7	15.0	21.1	24.3	30.5	38.5	47.8
31	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	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	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	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	3.5	5.0	7.0	9.8	13.7	19.3	22.9	31.2	40.9	52.0
35	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	3.4	4.9	6.9	9.6	13.5	18.9	22.4	30.9	41.3	52.8
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.7	9.3	13.2	18.5	21.9	30.2	41.4	53.5
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.8	1.1	1.6	2.2	3.1	4.6	6.5	9.1	12.8	18.1	21.4	29.4	41.3	54.2
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.5	6.3	8.9	12.5	17.8	21.0	28.8	40.9	54.7
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.3	6.1	8.6	12.2	17.4	20.6	28.2	40.1	54.9
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	11.9	17.0	20.2	27.6	39.0	54.8
41	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.1	5.8	8.1	11.6	16.6	19.8	27.1	38.2	54.3
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.9	2.7	4.0	5.6	7.9	11.3	16.2	19.4	26.6	37.4	53.3
43	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	3.9	5.4	7.7	11.0	15.8	18.9	26.2	36.7	51.9
44	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	15.4	18.5	25.6	36.0	50.9
45	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	3.6	5.1	7.3	10.4	15.0	18.0	25.1	35.4	49.9
46	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	10.2	14.7	17.6	24.5	34.9	49.0
47	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	17.1	23.9	34.2	48.1
48	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	13.9	16.7	23.4	33.5	47.4
49	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	16.3	22.8	32.8	46.7
50	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	15.9	22.3	32.1	45.8

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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 50 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.5	2.1	3.0	4.3	6.2	8.9	12.9	15.5	21.7	31.3	44.9
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	1.1	1.5	2.1	3.0	4.2	6.0	8.7	12.5	15.1	21.2	30.6	44.0
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	4.1	5.8	8.4	12.2	14.7	20.7	29.9	43.1
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	1.1	1.5	2.0	2.9	4.0	5.6	8.2	11.9	14.3	20.3	29.3	42.2
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	1.1	1.5	2.0	2.8	3.9	5.5	8.0	11.7	14.0	19.8	28.6	41.3
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	1.1	1.5	2.0	2.8	3.8	5.4	7.7	11.4	13.6	19.3	28.0	40.4
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	1.5	2.0	2.7	3.7	5.2	7.5	11.1	13.4	18.8	27.4	39.5
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	2.0	2.7	3.7	5.1	7.3	10.8	13.0	18.3	26.8	38.7
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	3.6	5.0	7.2	10.5	12.7	17.9	26.1	37.8
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	2.6	3.6	4.9	7.0	10.2	12.3	17.5	25.4	37.1
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	1.5	1.9	2.6	3.5	4.8	6.8	9.9	12.0	17.1	24.8	36.3
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	2.6	3.5	4.8	6.7	9.7	11.7	16.7	24.3	35.5
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	2.6	3.5	4.7	6.6	9.5	11.4	16.3	23.8	34.7
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	1.9	2.6	3.5	4.6	6.4	9.3	11.1	15.8	23.3	33.8
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	3.4	4.6	6.3	9.1	10.9	15.4	22.7	33.1
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	3.4	4.5	6.3	8.9	10.7	15.1	22.2	32.4
67	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.4	4.5	6.2	8.7	10.5	14.7	21.7	31.8
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	3.4	4.5	6.1	8.6	10.3	14.4	21.1	31.1
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	3.4	4.5	6.0	8.5	10.1	14.1	20.6	30.4
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	3.4	4.5	6.0	8.4	9.9	13.8	20.1	29.7
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	3.4	4.4	6.0	8.2	9.8	13.6	19.7	29.0
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	3.4	4.4	6.0	8.2	9.7	13.4	19.3	28.3
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	1.7	2.1	2.8	3.5	4.4	5.9	8.1	9.5	13.2	19.0	27.7
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	4.5	5.9	8.1	9.4	13.0	18.6	27.1
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	4.5	5.9	8.1	9.4	12.8	18.3	26.6
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	5.9	8.0	9.4	12.6	18.0	26.1
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	5.9	8.0	9.3	12.5	17.8	25.6
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	4.7	5.9	7.9	9.3	12.4	17.5	25.2
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	6.0	7.9	9.2	12.4	17.3	24.8
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	6.1	7.9	9.2	12.4	17.1	24.4
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	6.1	7.9	9.2	12.3	16.9	24.1
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	3.0	3.8	4.8	6.2	8.0	9.2	12.2	16.8	23.8
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	6.3	8.1	9.2	12.2	16.8	23.5
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	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	12.2	16.8	23.3
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	3.1	4.0	5.0	6.4	8.3	9.4	12.2	16.7	23.0
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	12.2	16.6	22.9
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	6.5	8.4	9.6	12.2	16.5	22.9
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	4.1	5.2	6.6	8.5	9.7	12.3	16.5	22.8
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	12.4	16.5	22.7
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.5	22.6
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	22.6
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	22.5
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	22.6
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	22.6
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	22.6
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	22.8
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	4.6	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

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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 51 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	6.2	6.7	7.8	9.2	11.3
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	4.7	5.2	5.8	6.7	7.1	8.2	9.8	11.9
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	5.0	5.5	6.2	7.1	7.6	8.7	10.3	12.5
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	5.4	5.9	6.7	7.6	8.1	9.2	10.9	13.1
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	5.7	6.4	7.1	8.1	8.6	9.8	11.5	13.8
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	6.1	6.8	7.6	8.6	9.2	10.4	12.2	14.5
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	6.5	7.3	8.1	9.2	9.8	11.1	12.9	15.3
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	6.9	7.7	8.7	9.8	10.4	11.8	13.7	16.2
9	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	6.2	7.2	8.2	9.3	10.4	11.1	12.5	14.5	17.0
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	7.6	8.7	9.9	11.1	11.8	13.3	15.3	18.0
11	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	5.3	6.6	7.9	9.2	10.5	11.8	12.6	14.1	16.2	19.0
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	8.2	9.6	11.1	12.6	13.4	15.0	17.2	20.1
13	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.4	5.5	6.9	8.5	10.0	11.7	13.4	14.3	16.0	18.2	21.2
14	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	5.6	7.1	8.7	10.4	12.3	14.1	15.1	17.0	19.4	22.4
15	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	4.2	5.6	7.2	8.9	10.8	12.8	14.9	16.0	18.1	20.5	23.7
16	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	7.3	9.0	11.1	13.3	15.8	16.9	19.2	21.8	25.1
17	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	7.4	9.2	11.3	13.8	16.5	17.8	20.2	23.1	26.5
18	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	7.4	9.3	11.6	14.2	17.2	18.7	21.3	24.6	28.1
19	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	7.3	9.5	11.8	14.6	17.8	19.4	22.5	25.9	29.7
20	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	5.0	7.2	9.5	12.0	14.9	18.4	20.2	23.6	27.3	31.5
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	12.1	15.2	18.9	20.8	24.6	28.8	33.4
22	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.4	12.2	15.4	19.3	21.4	25.6	30.2	35.1
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	2.4	3.4	4.7	6.6	9.2	12.3	15.7	19.7	21.9	26.4	31.6	36.9
24	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.6	6.5	8.9	12.2	15.9	20.1	22.4	27.2	32.9	38.7
25	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	8.7	12.0	16.0	20.4	22.8	28.0	34.1	40.7
26	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	8.4	11.7	16.0	20.7	23.2	28.6	35.2	42.4
27	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	8.2	11.4	15.9	20.9	23.6	29.1	36.2	44.0
28	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	21.1	23.9	29.7	37.1	45.5
29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.7	7.9	10.8	15.1	21.0	24.1	30.1	37.9	46.9
30	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	14.7	20.9	24.2	30.6	38.6	48.2
31	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	14.4	20.5	24.0	30.9	39.3	49.3
32	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	19.9	23.7	31.1	39.9	50.3
33	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	9.9	13.8	19.4	23.1	31.2	40.4	51.3
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.4	4.9	6.9	9.7	13.5	19.0	22.5	30.9	40.9	52.2
35	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	6.7	9.4	13.2	18.6	22.0	30.4	41.2	52.9
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.5	9.2	12.9	18.2	21.5	29.6	41.2	53.6
37	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	8.9	12.6	17.8	21.1	28.9	40.9	54.2
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.1	3.0	4.4	6.2	8.7	12.3	17.5	20.7	28.3	40.3	54.6
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	6.0	8.4	12.0	17.1	20.3	27.7	39.3	54.6
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.7	16.7	19.9	27.2	38.4	54.3
41	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	4.0	5.7	8.0	11.4	16.3	19.5	26.7	37.6	53.6
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.9	5.5	7.8	11.1	15.9	19.0	26.3	36.8	52.3
43	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	3.8	5.3	7.6	10.8	15.5	18.6	25.7	36.1	51.1
44	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	2.5	3.7	5.2	7.3	10.5	15.1	18.1	25.2	35.5	50.1
45	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	5.1	7.1	10.2	14.8	17.7	24.6	35.0	49.2
46	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	10.0	14.4	17.2	24.1	34.3	48.3
47	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	4.8	6.7	9.7	14.0	16.8	23.5	33.6	47.4
48	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	6.6	9.4	13.7	16.4	22.9	32.9	46.7
49	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	4.5	6.4	9.1	13.4	16.0	22.4	32.2	45.9
50	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	3.1	4.3	6.2	8.9	13.0	15.6	21.9	31.5	45.1

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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 51 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.1	1.5	2.1	3.0	4.2	6.0	8.7	12.6	15.2	21.3	30.8	44.2
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.9	4.1	5.8	8.5	12.3	14.8	20.8	30.1	43.3
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	4.0	5.7	8.2	12.0	14.4	20.4	29.4	42.4
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	3.9	5.5	8.0	11.7	14.0	19.9	28.7	41.5
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	1.5	2.0	2.8	3.8	5.4	7.8	11.4	13.7	19.4	28.1	40.6
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	1.5	2.0	2.7	3.7	5.3	7.6	11.1	13.4	18.9	27.4	39.7
57	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.5	1.9	2.7	3.7	5.1	7.4	10.8	13.1	18.4	26.9	38.8
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	1.9	2.6	3.6	5.0	7.2	10.5	12.7	18.0	26.2	38.0
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.6	4.9	7.0	10.2	12.4	17.6	25.6	37.2
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	3.5	4.8	6.9	10.0	12.1	17.2	24.9	36.4
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	2.6	3.5	4.8	6.7	9.7	11.7	16.8	24.3	35.6
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	3.4	4.7	6.6	9.5	11.4	16.3	23.8	34.8
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	1.5	1.9	2.6	3.4	4.6	6.5	9.3	11.2	15.9	23.4	33.9
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	1.9	2.6	3.4	4.6	6.3	9.1	10.9	15.5	22.8	33.2
65	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.6	3.4	4.5	6.3	8.9	10.7	15.1	22.3	32.5
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	1.3	1.6	2.0	2.6	3.4	4.5	6.2	8.7	10.5	14.8	21.7	31.8
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	2.6	3.4	4.5	6.1	8.6	10.3	14.5	21.2	31.2
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	3.4	4.5	6.0	8.5	10.1	14.1	20.7	30.5
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	3.4	4.4	6.0	8.4	9.9	13.9	20.2	29.8
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	3.4	4.4	6.0	8.2	9.8	13.6	19.8	29.1
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.4	5.9	8.1	9.7	13.4	19.4	28.4
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	4.4	5.9	8.1	9.5	13.1	19.0	27.8
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	4.4	5.9	8.0	9.4	13.0	18.6	27.2
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	4.4	5.9	8.0	9.3	12.8	18.3	26.6
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	4.5	5.9	8.0	9.3	12.6	18.0	26.1
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	5.9	7.9	9.3	12.5	17.7	25.6
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	5.9	7.9	9.2	12.3	17.5	25.2
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	4.7	5.9	7.9	9.2	12.3	17.3	24.8
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	6.0	7.9	9.2	12.3	17.1	24.4
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	6.1	7.9	9.2	12.2	16.8	24.1
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	6.1	7.9	9.2	12.2	16.7	23.8
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	3.0	3.8	4.8	6.2	8.0	9.2	12.1	16.7	23.5
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	6.3	8.1	9.2	12.1	16.7	23.2
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	8.2	9.3	12.1	16.6	22.9
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	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.1	16.5	22.8
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	16.4	22.7
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	16.4	22.7
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	5.2	6.6	8.5	9.7	12.3	16.4	22.6
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	16.4	22.5
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	22.4
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	16.5	22.4
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	22.4
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	4.3	5.4	6.9	9.0	10.2	12.9	16.9	22.4
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	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	22.6
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	22.8
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	4.6	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

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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 57 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	2.3	2.8	3.2	3.6	4.0	4.4	4.9	5.6	6.4	6.8	7.9	9.4	11.5
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	3.4	3.8	4.3	4.8	5.3	6.0	6.8	7.3	8.4	9.9	12.1
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	4.6	5.1	5.7	6.4	7.2	7.7	8.9	10.5	12.7
4	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	4.3	4.9	5.5	6.1	6.8	7.7	8.2	9.4	11.1	13.3
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	4.5	5.2	5.9	6.5	7.3	8.2	8.8	10.0	11.7	14.0
6	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.6	3.2	3.9	4.7	5.5	6.2	7.0	7.8	8.8	9.3	10.6	12.4	14.8
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	5.8	6.6	7.4	8.3	9.3	10.0	11.3	13.1	15.6
8	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.0	6.0	7.0	7.9	8.9	10.0	10.6	12.0	13.9	16.4
9	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.6	3.4	4.2	5.1	6.3	7.4	8.4	9.5	10.6	11.3	12.7	14.7	17.4
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	6.5	7.7	8.9	10.1	11.3	12.0	13.6	15.6	18.3
11	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	4.3	5.3	6.7	8.0	9.3	10.7	12.1	12.8	14.4	16.6	19.3
12	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	6.8	8.3	9.8	11.3	12.9	13.7	15.3	17.6	20.4
13	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	5.5	7.0	8.5	10.2	11.9	13.6	14.6	16.3	18.6	21.6
14	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	7.1	8.7	10.5	12.5	14.4	15.4	17.3	19.8	22.9
15	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	4.2	5.6	7.2	8.9	10.9	13.0	15.2	16.3	18.5	21.0	24.2
16	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	7.3	9.1	11.1	13.5	16.0	17.2	19.5	22.3	25.6
17	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	7.4	9.2	11.4	13.9	16.7	18.1	20.6	23.6	27.1
18	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	7.3	9.4	11.6	14.3	17.4	18.9	21.7	25.1	28.7
19	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	9.5	11.8	14.6	17.9	19.7	22.9	26.4	30.4
20	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	9.5	12.0	14.9	18.5	20.4	24.0	27.8	32.2
21	0.0	0.1	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	6.9	9.4	12.1	15.2	19.0	21.0	24.9	29.3	34.0
22	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	9.3	12.2	15.5	19.4	21.6	25.8	30.8	35.7
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	2.4	3.3	4.6	6.5	9.0	12.2	15.7	19.8	22.0	26.7	32.1	37.5
24	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	6.4	8.7	12.1	15.9	20.1	22.5	27.5	33.3	39.4
25	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	3.1	4.4	6.2	8.5	11.8	15.9	20.4	22.9	28.1	34.5	41.3
26	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	15.9	20.7	23.3	28.7	35.5	43.0
27	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.1	11.2	15.7	20.9	23.6	29.3	36.5	44.5
28	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	21.0	23.9	29.8	37.3	46.0
29	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.4	2.0	2.8	3.9	5.6	7.8	10.7	14.9	20.9	24.0	30.2	38.0	47.3
30	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	7.6	10.4	14.5	20.6	24.0	30.6	38.8	48.5
31	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	10.2	14.2	20.1	23.8	30.9	39.4	49.6
32	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	19.5	23.3	31.0	40.0	50.5
33	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	9.7	13.6	19.1	22.7	30.9	40.5	51.5
34	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	13.3	18.7	22.1	30.6	40.9	52.3
35	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.3	3.2	4.7	6.6	9.3	13.0	18.3	21.7	29.9	41.0	53.0
36	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	4.6	6.4	9.0	12.7	17.9	21.2	29.1	40.9	53.6
37	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	12.4	17.6	20.8	28.5	40.5	54.2
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.1	2.9	4.3	6.1	8.5	12.1	17.2	20.4	27.9	39.6	54.4
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.2	5.9	8.3	11.8	16.8	20.0	27.3	38.6	54.2
40	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.0	5.7	8.1	11.5	16.4	19.6	26.8	37.8	53.7
41	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	5.5	7.8	11.2	16.0	19.1	26.3	37.0	52.7
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.6	3.8	5.4	7.6	10.9	15.6	18.7	25.9	36.3	51.3
43	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	5.2	7.4	10.6	15.2	18.2	25.3	35.6	50.3
44	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	3.6	5.1	7.2	10.3	14.9	17.8	24.8	35.0	49.3
45	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	2.3	3.5	4.9	7.0	10.1	14.5	17.3	24.2	34.5	48.4
46	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	3.4	4.8	6.8	9.8	14.1	16.9	23.6	33.8	47.6
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.3	4.7	6.6	9.5	13.8	16.5	23.1	33.1	46.8
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.2	4.5	6.4	9.2	13.4	16.1	22.5	32.4	46.1
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.5	2.1	3.1	4.4	6.3	9.0	13.1	15.7	22.0	31.6	45.2
50	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	2.1	3.0	4.2	6.1	8.7	12.7	15.3	21.4	30.9	44.3

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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 52 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.0	2.9	4.1	5.9	8.5	12.4	14.9	20.9	30.2	43.4
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.0	5.7	8.3	12.0	14.5	20.5	29.5	42.5
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8	3.9	5.6	8.1	11.7	14.1	20.0	28.8	41.6
54	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.5	2.0	2.8	3.8	5.4	7.8	11.5	13.8	19.5	28.2	40.7
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	2.0	2.7	3.8	5.3	7.6	11.2	13.4	19.0	27.6	39.8
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	1.9	2.7	3.7	5.2	7.4	10.9	13.2	18.5	27.0	39.0
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	1.9	2.6	3.6	5.0	7.2	10.6	12.8	18.0	26.4	38.1
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	1.9	2.6	3.6	4.9	7.0	10.3	12.5	17.6	25.7	37.3
59	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.6	3.5	4.8	6.9	10.0	12.1	17.3	25.0	36.5
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	2.6	3.5	4.8	6.7	9.8	11.8	16.8	24.4	35.8
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	3.4	4.7	6.6	9.5	11.5	16.4	23.9	35.0
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	1.9	2.6	3.4	4.6	6.5	9.3	11.2	16.0	23.4	34.1
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	3.4	4.5	6.4	9.1	11.0	15.6	22.9	33.3
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	1.9	2.6	3.4	4.5	6.3	8.9	10.7	15.2	22.4	32.5
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	1.6	2.0	2.6	3.4	4.5	6.2	8.8	10.5	14.8	21.8	31.9
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	3.3	4.5	6.1	8.6	10.3	14.5	21.3	31.3
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	3.3	4.4	6.0	8.5	10.1	14.2	20.8	30.6
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	3.3	4.4	6.0	8.4	9.9	13.9	20.2	29.9
69	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.1	2.7	3.3	4.4	5.9	8.2	9.8	13.6	19.8	29.2
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.4	5.9	8.1	9.6	13.4	19.4	28.5
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.4	5.9	8.0	9.5	13.2	19.0	27.8
72	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.3	1.7	2.1	2.7	3.5	4.4	5.8	8.0	9.4	13.0	18.6	27.2
73	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.7	2.1	2.8	3.5	4.4	5.8	8.0	9.3	12.8	18.3	26.7
74	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	5.8	8.0	9.3	12.6	18.0	26.2
75	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.6	4.5	5.8	7.9	9.3	12.4	17.7	25.7
76	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.8	7.9	9.2	12.3	17.5	25.2
77	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.9	7.8	9.2	12.2	17.3	24.8
78	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	5.9	7.8	9.1	12.2	17.0	24.4
79	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.3	2.9	3.7	4.7	6.0	7.8	9.1	12.2	16.8	24.0
80	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.5	1.8	2.3	3.0	3.8	4.7	6.1	7.9	9.1	12.1	16.7	23.7
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	6.1	7.9	9.1	12.0	16.6	23.5
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	3.0	3.8	4.8	6.2	8.0	9.1	12.0	16.6	23.2
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	3.1	3.9	4.9	6.3	8.1	9.2	12.0	16.5	22.9
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	8.2	9.3	12.0	16.4	22.7
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	4.0	5.0	6.4	8.3	9.4	12.0	16.3	22.6
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	16.3	22.6
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	4.0	5.1	6.5	8.4	9.6	12.2	16.3	22.5
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	16.3	22.4
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	22.3
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	12.6	16.4	22.3
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	4.2	5.3	6.8	8.8	10.0	12.7	16.5	22.3
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	4.3	5.4	6.9	8.9	10.1	12.8	16.7	22.3
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	22.3
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	7.0	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	22.6
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	4.6	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

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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 53 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	2.3	2.8	3.2	3.6	4.1	4.5	5.1	5.7	6.5	7.0	8.0	9.6	11.6
2	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	1.9	2.4	2.9	3.4	3.9	4.4	4.9	5.4	6.1	6.9	7.4	8.5	10.1	12.2
3	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.0	2.4	3.0	3.6	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.0	10.7	12.9
4	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	5.6	6.2	6.9	7.9	8.4	9.6	11.3	13.6
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	3.2	3.8	4.5	5.3	6.0	6.6	7.4	8.4	9.0	10.2	11.9	14.3
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	3.9	4.7	5.6	6.3	7.1	7.9	8.9	9.5	10.8	12.6	15.0
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	4.0	4.9	5.9	6.7	7.6	8.5	9.5	10.2	11.5	13.4	15.9
8	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.0	6.1	7.1	8.0	9.1	10.2	10.8	12.2	14.2	16.7
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	5.1	6.3	7.5	8.5	9.7	10.9	11.5	13.0	15.0	17.7
10	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.4	4.3	5.3	6.5	7.8	9.0	10.2	11.6	12.3	13.8	15.9	18.7
11	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	6.7	8.1	9.5	10.8	12.4	13.1	14.7	16.9	19.7
12	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	4.3	5.4	6.9	8.3	9.9	11.5	13.1	14.0	15.6	17.9	20.8
13	0.0	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	5.5	7.0	8.6	10.3	12.1	13.9	14.8	16.6	19.0	22.0
14	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.5	7.1	8.8	10.6	12.6	14.7	15.7	17.7	20.2	23.3
15	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	7.2	8.9	10.9	13.1	15.5	16.6	18.8	21.4	24.6
16	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	7.3	9.1	11.2	13.6	16.2	17.5	19.9	22.7	26.1
17	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	7.3	9.2	11.4	14.0	16.9	18.4	21.0	24.1	27.6
18	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	3.7	5.1	7.3	9.4	11.6	14.4	17.5	19.1	22.1	25.5	29.2
19	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	3.6	5.0	7.2	9.4	11.8	14.7	18.1	19.9	23.3	26.9	31.0
20	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	9.4	12.0	15.0	18.6	20.5	24.3	28.3	32.8
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	3.5	4.7	6.8	9.3	12.1	15.3	19.1	21.2	25.2	29.8	34.6
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	3.4	4.6	6.6	9.1	12.2	15.5	19.5	21.7	26.1	31.2	36.3
23	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	12.1	15.7	19.8	22.1	26.9	32.5	38.2
24	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	15.8	20.2	22.6	27.6	33.7	40.1
25	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	3.2	4.3	6.1	8.4	11.6	15.8	20.5	23.0	28.3	34.8	41.9
26	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.5	2.1	3.0	4.2	6.0	8.2	11.3	15.7	20.7	23.3	28.8	35.8	43.5
27	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	4.0	5.8	8.0	11.0	15.5	20.9	23.6	29.4	36.7	45.0
28	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	7.8	10.7	15.0	20.9	23.9	29.8	37.5	46.4
29	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	20.7	23.9	30.2	38.2	47.7
30	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	5.4	7.5	10.3	14.3	20.3	23.8	30.6	38.9	48.8
31	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	13.9	19.7	23.5	30.8	39.5	49.8
32	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	3.5	5.0	7.1	9.8	13.6	19.2	22.9	30.8	40.0	50.7
33	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	3.4	4.9	6.8	9.6	13.4	18.8	22.3	30.7	40.5	51.6
34	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	4.7	6.6	9.3	13.1	18.4	21.8	30.2	40.8	52.4
35	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	2.2	3.1	4.6	6.5	9.1	12.8	18.0	21.3	29.4	40.8	53.1
36	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	4.5	6.3	8.8	12.5	17.7	20.9	28.7	40.5	53.7
37	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	6.1	8.6	12.2	17.3	20.5	28.0	39.9	54.0
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.9	4.2	5.9	8.4	11.9	17.0	20.1	27.4	38.9	54.1
39	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.1	5.8	8.1	11.6	16.6	19.7	26.9	38.0	53.8
40	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	4.0	5.6	7.9	11.3	16.2	19.3	26.4	37.2	53.0
41	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	5.4	7.7	11.0	15.8	18.8	26.0	36.4	51.8
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.3	1.8	2.5	3.7	5.3	7.5	10.7	15.4	18.4	25.4	35.8	50.6
43	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	3.6	5.1	7.3	10.4	15.0	17.9	24.9	35.1	49.6
44	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	7.0	10.1	14.6	17.5	24.3	34.6	48.6
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.4	4.8	6.8	9.9	14.2	17.0	23.8	33.9	47.7
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.3	4.7	6.7	9.6	13.9	16.6	23.2	33.2	46.9
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.2	4.6	6.5	9.3	13.5	16.2	22.7	32.5	46.2
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.3	9.0	13.2	15.8	22.1	31.8	45.4
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.1	8.8	12.8	15.4	21.6	31.1	44.5
50	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	2.1	3.0	4.2	5.9	8.6	12.5	15.0	21.1	30.4	43.6

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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 53 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.0	2.9	4.1	5.8	8.4	12.1	14.6	20.6	29.7	42.7
52	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.8	4.0	5.6	8.1	11.8	14.2	20.1	29.0	41.8
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	3.9	5.4	7.9	11.5	13.8	19.6	28.3	40.9
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	1.9	2.7	3.8	5.3	7.7	11.3	13.5	19.1	27.7	40.0
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	1.5	1.9	2.7	3.7	5.2	7.4	11.0	13.2	18.6	27.1	39.1
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	3.6	5.1	7.3	10.7	12.9	18.1	26.5	38.3
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	1.1	1.5	1.9	2.6	3.6	5.0	7.1	10.4	12.6	17.7	25.8	37.4
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	1.9	2.6	3.5	4.9	6.9	10.1	12.2	17.3	25.2	36.6
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	3.5	4.8	6.8	9.8	11.9	16.9	24.5	35.9
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	3.4	4.7	6.6	9.6	11.6	16.5	24.0	35.1
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	1.5	1.9	2.6	3.4	4.6	6.5	9.4	11.3	16.1	23.5	34.3
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	3.4	4.5	6.4	9.2	11.0	15.7	23.0	33.4
63	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.4	4.5	6.3	9.0	10.8	15.2	22.5	32.7
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	1.9	2.5	3.3	4.5	6.2	8.8	10.5	14.9	21.9	32.0
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	2.5	3.3	4.5	6.1	8.6	10.3	14.5	21.4	31.4
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	3.3	4.4	6.0	8.5	10.1	14.2	20.9	30.7
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	3.3	4.4	5.9	8.4	9.9	13.9	20.3	30.0
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	3.3	4.4	5.9	8.2	9.8	13.6	19.9	29.3
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	3.3	4.4	5.9	8.1	9.6	13.4	19.4	28.6
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	3.4	4.4	5.9	8.0	9.5	13.2	19.1	28.0
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.4	5.8	8.0	9.4	13.0	18.7	27.3
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	4.4	5.8	7.9	9.3	12.8	18.3	26.7
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	2.1	2.8	3.5	4.4	5.8	7.9	9.2	12.6	18.0	26.2
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	4.5	5.8	7.9	9.2	12.4	17.7	25.7
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	4.5	5.8	7.8	9.2	12.3	17.5	25.2
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	5.8	7.8	9.1	12.2	17.2	24.8
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	5.9	7.8	9.1	12.1	17.0	24.4
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	4.7	5.9	7.8	9.0	12.1	16.8	24.0
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	6.0	7.8	9.0	12.1	16.6	23.7
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	2.3	3.0	3.8	4.7	6.1	7.8	9.0	12.0	16.5	23.4
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	6.1	7.9	9.0	11.9	16.5	23.1
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	3.0	3.8	4.8	6.2	8.0	9.1	11.9	16.5	22.9
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	6.3	8.1	9.2	11.9	16.4	22.6
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	8.2	9.3	11.9	16.3	22.5
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	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.0	16.2	22.5
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	16.2	22.4
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	16.2	22.3
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	4.1	5.2	6.6	8.5	9.7	12.3	16.2	22.2
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	4.1	5.2	6.7	8.6	9.8	12.5	16.3	22.1
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	22.1
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	22.1
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	22.2
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	22.6
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	4.6	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

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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 54 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.3	0.5	0.6	0.9	1.2	1.5	1.9	2.3	2.8	3.3	3.7	4.2	4.6	5.2	5.8	6.6	7.1	8.2	9.7	11.8
2	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.6	1.9	2.4	2.9	3.5	3.9	4.5	5.0	5.5	6.2	7.1	7.6	8.7	10.3	12.4
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	3.0	3.6	4.2	4.8	5.3	5.9	6.6	7.5	8.1	9.2	10.9	13.1
4	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	4.4	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8
5	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.0	1.5	2.0	2.5	3.2	3.9	4.6	5.4	6.1	6.8	7.6	8.6	9.1	10.4	12.2	14.5
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	6.4	7.3	8.1	9.1	9.7	11.0	12.9	15.3
7	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	4.9	5.9	6.8	7.7	8.7	9.7	10.4	11.7	13.6	16.1
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	7.2	8.2	9.3	10.4	11.0	12.5	14.4	17.0
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	7.6	8.7	9.8	11.1	11.8	13.3	15.3	18.0
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	7.9	9.2	10.4	11.8	12.6	14.1	16.2	19.0
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	8.1	9.6	11.0	12.6	13.4	15.0	17.2	20.1
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	8.4	10.0	11.7	13.4	14.3	16.0	18.3	21.2
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	8.6	10.4	12.3	14.1	15.1	17.0	19.4	22.4
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	8.8	10.7	12.8	14.9	16.0	18.1	20.6	23.7
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	9.0	11.0	13.3	15.7	16.9	19.2	21.8	25.1
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	9.1	11.2	13.7	16.4	17.8	20.2	23.2	26.6
17	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	7.3	9.2	11.5	14.1	17.1	18.6	21.3	24.6	28.2
18	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	9.4	11.7	14.5	17.7	19.4	22.5	26.0	29.8
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	9.4	11.8	14.8	18.3	20.1	23.6	27.4	31.6
20	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.4	12.0	15.0	18.7	20.7	24.6	28.8	33.4
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	9.2	12.1	15.3	19.1	21.3	25.5	30.3	35.2
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	9.0	12.1	15.5	19.5	21.8	26.3	31.6	37.0
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	8.7	12.0	15.7	19.9	22.2	27.1	32.9	38.8
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	8.5	11.8	15.8	20.2	22.7	27.8	34.0	40.7
25	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.2	6.0	8.3	11.4	15.7	20.5	23.0	28.4	35.1	42.4
26	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	20.7	23.3	28.9	36.0	44.0
27	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	7.9	10.8	15.2	20.8	23.6	29.4	36.9	45.4
28	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	20.7	23.8	29.9	37.6	46.8
29	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	7.5	10.3	14.4	20.4	23.8	30.3	38.3	48.0
30	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	7.3	10.1	14.1	20.0	23.6	30.6	39.0	49.0
31	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	9.9	13.7	19.4	23.2	30.7	39.5	50.0
32	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	13.5	18.9	22.5	30.6	40.0	50.9
33	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	6.7	9.4	13.2	18.5	22.0	30.3	40.5	51.7
34	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	4.7	6.6	9.2	12.9	18.1	21.5	29.7	40.6	52.5
35	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	8.9	12.6	17.8	21.0	28.9	40.5	53.1
36	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	12.3	17.4	20.6	28.2	40.1	53.6
37	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	8.5	12.0	17.1	20.2	27.6	39.3	53.8
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.7	16.7	19.8	27.0	38.2	53.7
39	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	4.0	5.7	8.0	11.4	16.3	19.4	26.5	37.4	53.2
40	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	5.5	7.8	11.0	15.9	18.9	26.1	36.6	52.2
41	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	3.8	5.3	7.6	10.8	15.5	18.5	25.6	35.9	50.8
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.5	3.7	5.2	7.3	10.5	15.1	18.1	25.0	35.3	49.8
43	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	24.5	34.7	48.8
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	3.4	4.9	6.9	9.9	14.3	17.2	23.9	34.1	47.9
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.3	4.7	6.7	9.7	14.0	16.7	23.4	33.4	47.1
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.2	4.6	6.5	9.4	13.6	16.3	22.8	32.7	46.3
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.1	3.1	4.5	6.4	9.1	13.3	15.9	22.3	32.0	45.6
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.2	8.9	12.9	15.5	21.7	31.3	44.7
49	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	2.1	3.0	4.2	6.0	8.6	12.6	15.2	21.2	30.6	43.8
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.1	5.8	8.4	12.2	14.7	20.7	29.9	42.9

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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 54 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	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	0.2	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	0.2	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	0.2	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	7.5	11.0	13.3	18.7	27.2	39.3
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	1.1	1.4	1.9	2.6	3.6	5.1	7.3	10.7	13.0	18.2	26.6	38.5
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	1.9	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3	4.4	6.1	8.6	10.3	14.6	21.5	31.4
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	2.5	3.3	4.4	6.0	8.5	10.1	14.3	21.0	30.9
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.4	5.9	8.4	10.0	14.0	20.4	30.2
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	3.3	4.4	5.9	8.2	9.8	13.7	19.9	29.5
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	3.3	4.3	5.9	8.1	9.6	13.4	19.5	28.8
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	3.3	4.3	5.8	8.0	9.5	13.2	19.1	28.1
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.8	7.9	9.3	12.8	18.4	26.8
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	4.4	5.8	7.9	9.2	12.6	18.0	26.3
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	1.7	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.7	2.2	2.8	3.5	4.5	5.8	7.8	9.1	12.3	17.5	25.3
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	4.5	5.8	7.8	9.1	12.1	17.2	24.8
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	3.6	4.6	5.8	7.7	9.0	12.1	17.0	24.4
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	5.9	7.7	9.0	12.1	16.8	24.0
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	4.7	5.9	7.7	9.0	12.0	16.6	23.7
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	6.0	7.8	9.0	12.0	16.4	23.4
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	6.1	7.8	9.0	11.9	16.4	23.1
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	6.1	7.9	9.0	11.9	16.4	22.8
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	3.0	3.8	4.8	6.2	8.0	9.1	11.9	16.3	22.6
83	0.1	0.1	0.1	0.2	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	11.9	16.1	22.3
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	3.1	4.0	5.0	6.4	8.3	9.4	11.9	16.1	22.3
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	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.1	16.1	22.2
87	0.1	0.1	0.2	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	16.1	22.1
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	5.2	6.6	8.5	9.7	12.3	16.1	22.0
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	16.2	22.0
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	22.0
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	22.0
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	4.6	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

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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 55 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	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	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	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	3.6	4.2	4.9	5.4	6.0	6.8	7.7	8.2	9.4	11.0	13.3
4	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	4.5	5.2	5.8	6.5	7.2	8.2	8.7	10.0	11.7	14.0
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	4.6	5.5	6.2	6.9	7.7	8.7	9.3	10.6	12.4	14.7
6	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.2	4.0	4.8	5.8	6.6	7.4	8.3	9.3	9.9	11.2	13.1	15.5
7	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.6	3.3	4.1	5.0	6.0	7.0	7.9	8.8	9.9	10.6	12.0	13.9	16.4
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	6.2	7.3	8.3	9.4	10.6	11.3	12.7	14.7	17.3
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	6.4	7.6	8.8	10.0	11.3	12.0	13.5	15.6	18.3
10	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.3	5.3	6.6	7.9	9.3	10.6	12.1	12.8	14.4	16.5	19.3
11	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	4.3	5.4	6.8	8.2	9.7	11.2	12.9	13.7	15.3	17.5	20.4
12	0.0	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	5.4	6.9	8.4	10.1	11.9	13.6	14.5	16.3	18.6	21.6
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	3.0	4.2	5.5	7.0	8.6	10.5	12.4	14.4	15.4	17.3	19.7	22.8
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	2.9	4.1	5.5	7.1	8.8	10.8	12.9	15.2	16.3	18.5	21.0	24.2
15	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	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
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	5.3	7.3	9.1	11.3	13.8	16.6	18.1	20.6	23.6	27.1
17	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	3.7	5.1	7.2	9.3	11.5	14.2	17.3	18.8	21.7	25.1	28.7
18	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.6	5.0	7.1	9.3	11.7	14.5	17.9	19.6	22.9	26.4	30.4
19	0.0	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	4.9	7.0	9.3	11.9	14.8	18.4	20.3	23.9	27.8	32.2
20	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	12.0	15.1	18.8	20.9	24.9	29.3	34.0
21	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	6.5	9.1	12.1	15.3	19.2	21.4	25.7	30.7	35.7
22	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	12.0	15.5	19.6	21.9	26.6	32.0	37.6
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	4.4	6.2	8.6	11.9	15.7	19.9	22.3	27.3	33.2	39.5
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	6.1	8.3	11.6	15.7	20.2	22.7	27.9	34.3	41.3
25	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.7	1.0	1.5	2.1	3.0	4.1	6.0	8.1	11.2	15.6	20.5	23.1	28.5	35.4	42.9
26	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	2.9	4.0	5.8	8.0	10.9	15.4	20.7	23.4	29.0	36.3	44.4
27	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.6	7.8	10.7	14.9	20.7	23.6	29.5	37.0	45.8
28	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	7.6	10.4	14.5	20.5	23.7	29.9	37.8	47.1
29	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	7.4	10.2	14.2	20.2	23.6	30.3	38.5	48.3
30	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	3.5	5.2	7.2	10.0	13.8	19.6	23.3	30.5	39.1	49.2
31	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	13.5	19.1	22.8	30.6	39.6	50.2
32	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	6.8	9.5	13.3	18.7	22.1	30.4	40.1	51.1
33	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	13.0	18.2	21.6	29.9	40.4	51.8
34	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	2.2	3.1	4.6	6.4	9.0	12.7	17.9	21.1	29.2	40.4	52.5
35	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	12.4	17.5	20.7	28.4	40.2	53.1
36	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	17.2	20.3	27.8	39.6	53.5
37	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	16.8	19.9	27.2	38.6	53.6
38	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.8	4.0	5.7	8.1	11.5	16.4	19.5	26.7	37.6	53.3
39	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	7.8	11.2	16.0	19.1	26.2	36.9	52.5
40	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	10.8	15.6	18.6	25.7	36.1	51.3
41	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	15.2	18.2	25.2	35.4	50.1
42	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.2	1.7	2.4	3.6	5.1	7.2	10.3	14.8	17.7	24.7	34.8	49.1
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.7	2.3	3.5	4.9	7.0	10.0	14.4	17.3	24.1	34.2	48.1
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.4	4.8	6.8	9.8	14.1	16.9	23.5	33.6	47.2
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.2	4.7	6.6	9.5	13.7	16.4	23.0	32.9	46.4
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.5	6.4	9.2	13.4	16.0	22.4	32.2	45.7
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.2	8.9	13.0	15.6	21.9	31.5	44.9
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.2	6.1	8.7	12.7	15.2	21.3	30.8	44.0
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.1	5.9	8.5	12.3	14.9	20.8	30.0	43.2
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.0	5.7	8.3	12.0	14.5	20.3	29.3	42.3

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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 55 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	2.0	2.8	3.9	5.5	8.0	11.7	14.0	19.9	28.7	41.4
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	1.5	1.9	2.7	3.8	5.4	7.8	11.4	13.7	19.4	28.0	40.4
53	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.9	2.7	3.7	5.3	7.6	11.1	13.3	18.9	27.4	39.6
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	3.7	5.1	7.4	10.8	13.1	18.4	26.7	38.7
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.9	2.6	3.6	5.0	7.2	10.5	12.7	17.9	26.2	37.8
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	1.4	1.9	2.6	3.5	4.9	7.0	10.2	12.4	17.5	25.5	37.0
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	1.4	1.9	2.6	3.5	4.8	6.8	9.9	12.1	17.1	24.9	36.2
58	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6	0.7	0.9	1.2	1.4	1.9	2.6	3.4	4.7	6.7	9.7	11.7	16.7	24.2	35.4
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	2.5	3.4	4.6	6.5	9.4	11.4	16.3	23.7	34.7
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	2.5	3.4	4.6	6.4	9.2	11.1	15.9	23.2	33.8
61	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.4	4.5	6.3	9.0	10.9	15.4	22.7	33.0
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	1.9	2.5	3.3	4.4	6.2	8.8	10.6	15.0	22.2	32.2
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	1.9	2.5	3.3	4.4	6.1	8.7	10.4	14.7	21.6	31.5
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	1.9	2.5	3.3	4.4	6.0	8.5	10.2	14.3	21.1	30.9
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	2.5	3.3	4.4	5.9	8.4	10.0	14.0	20.6	30.3
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.3	5.9	8.2	9.8	13.7	20.0	29.6
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	3.3	4.3	5.8	8.1	9.7	13.5	19.6	28.9
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	2.6	3.3	4.3	5.8	8.0	9.5	13.2	19.2	28.2
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	3.3	4.3	5.8	7.9	9.4	13.0	18.8	27.5
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	3.4	4.3	5.7	7.9	9.2	12.8	18.4	26.9
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.7	7.9	9.2	12.6	18.1	26.3
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	4.4	5.7	7.8	9.1	12.4	17.8	25.8
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	4.4	5.7	7.8	9.1	12.3	17.5	25.3
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	1.7	2.2	2.8	3.5	4.5	5.7	7.7	9.1	12.1	17.2	24.9
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	4.5	5.8	7.7	9.0	12.0	17.0	24.4
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	2.2	2.9	3.6	4.6	5.8	7.7	8.9	12.0	16.8	24.0
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	5.9	7.7	8.9	12.0	16.6	23.7
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	4.7	5.9	7.7	8.9	11.9	16.4	23.4
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	6.0	7.8	8.9	11.8	16.3	23.1
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	6.1	7.8	8.9	11.8	16.3	22.8
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	2.3	3.0	3.8	4.8	6.1	7.9	9.0	11.8	16.2	22.5
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	3.0	3.8	4.8	6.2	8.0	9.1	11.8	16.2	22.3
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	6.3	8.1	9.2	11.8	16.1	22.2
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	8.2	9.3	11.8	16.0	22.2
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	4.0	5.0	6.4	8.3	9.4	11.9	16.0	22.2
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	16.0	22.1
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	16.0	21.9
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	4.1	5.2	6.6	8.5	9.7	12.3	16.1	21.9
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	16.2	21.9
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	21.9
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	16.6	21.9
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	4.3	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	4.6	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

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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 56 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.3	0.4	0.6	0.8	1.2	1.5	1.9	2.4	2.9	3.4	3.8	4.4	4.8	5.4	6.0	6.9	7.4	8.5	10.0	12.2
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	5.2	5.8	6.5	7.3	7.8	9.0	10.6	12.8
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	5.6	6.2	6.9	7.8	8.4	9.5	11.2	13.5
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	3.8	4.5	5.3	5.9	6.6	7.4	8.3	8.9	10.1	11.9	14.2
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	6.3	7.1	7.9	8.9	9.5	10.8	12.6	15.0
6	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.8	5.8	6.7	7.5	8.4	9.5	10.1	11.5	13.3	15.8
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	7.1	8.0	9.0	10.1	10.8	12.2	14.1	16.7
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	7.4	8.5	9.6	10.8	11.5	13.0	15.0	17.6
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	7.7	9.0	10.2	11.6	12.3	13.8	15.9	18.6
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	8.0	9.4	10.8	12.3	13.1	14.7	16.8	19.6
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	8.3	9.8	11.4	13.1	13.9	15.6	17.9	20.8
12	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	4.2	5.4	6.9	8.5	10.2	12.0	13.8	14.8	16.6	19.0	22.0
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	8.7	10.5	12.6	14.6	15.6	17.7	20.1	23.3
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	8.9	10.8	13.1	15.4	16.5	18.8	21.4	24.6
15	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	7.2	9.0	11.1	13.5	16.2	17.5	19.8	22.7	26.1
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	9.1	11.3	13.9	16.8	18.3	20.9	24.1	27.6
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	9.3	11.5	14.3	17.4	19.1	22.1	25.5	29.3
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	9.3	11.7	14.6	18.0	19.8	23.2	26.9	31.0
19	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.3	11.9	14.9	18.5	20.4	24.2	28.3	32.8
20	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.7	6.6	9.2	12.0	15.1	18.9	21.0	25.1	29.8	34.5
21	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.6	6.4	8.9	12.0	15.3	19.3	21.5	26.0	31.1	36.3
22	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	8.7	11.9	15.5	19.7	22.0	26.8	32.4	38.2
23	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	6.1	8.4	11.7	15.6	20.0	22.4	27.4	33.5	40.1
24	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	3.0	4.2	6.0	8.2	11.4	15.6	20.3	22.8	28.0	34.6	41.8
25	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.9	8.0	11.0	15.5	20.5	23.1	28.6	35.6	43.4
26	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	7.8	10.8	15.1	20.6	23.4	29.1	36.5	44.8
27	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	5.5	7.7	10.5	14.7	20.5	23.6	29.5	37.2	46.2
28	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	10.3	14.3	20.3	23.6	29.9	37.9	47.4
29	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	5.2	7.3	10.1	14.0	19.9	23.4	30.3	38.6	48.5
30	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	5.1	7.1	9.9	13.6	19.3	23.0	30.4	39.1	49.4
31	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	9.6	13.4	18.8	22.4	30.4	39.6	50.4
32	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	6.7	9.4	13.1	18.4	21.8	30.1	40.1	51.2
33	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	2.2	3.2	4.6	6.5	9.1	12.8	18.0	21.3	29.5	40.2	51.9
34	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	4.5	6.3	8.9	12.5	17.6	20.8	28.6	40.1	52.6
35	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	6.1	8.6	12.2	17.3	20.4	28.0	39.8	53.1
36	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	16.9	20.0	27.4	39.0	53.3
37	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.1	11.6	16.5	19.7	26.8	37.9	53.2
38	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	4.0	5.6	7.9	11.3	16.2	19.2	26.3	37.1	52.7
39	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	11.0	15.8	18.8	25.8	36.3	51.8
40	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	7.5	10.7	15.4	18.3	25.4	35.6	50.4
41	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	7.3	10.4	15.0	17.9	24.8	34.9	49.4
42	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	3.5	5.0	7.0	10.1	14.6	17.4	24.3	34.3	48.4
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.4	4.8	6.8	9.8	14.2	17.0	23.7	33.8	47.5
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.2	3.3	4.7	6.6	9.6	13.8	16.6	23.2	33.1	46.6
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.5	9.3	13.5	16.1	22.6	32.4	45.8
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.3	9.0	13.1	15.7	22.0	31.7	45.1
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.1	8.8	12.8	15.4	21.5	31.0	44.3
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.1	5.9	8.6	12.4	15.0	21.0	30.3	43.4
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.5	2.0	2.9	4.0	5.8	8.3	12.1	14.6	20.5	29.5	42.5
50	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	5.6	8.1	11.8	14.2	20.0	28.9	41.6

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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 56 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	3.8	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.3	4.4	5.9	8.4	10.0	14.1	20.7	30.4
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	2.5	3.3	4.3	5.8	8.2	9.8	13.8	20.1	29.8
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.3	5.8	8.1	9.7	13.5	19.7	29.1
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	3.3	4.3	5.8	8.0	9.5	13.2	19.2	28.4
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	3.3	4.3	5.8	7.9	9.4	13.0	18.9	27.7
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	3.4	4.3	5.7	7.8	9.3	12.8	18.5	27.0
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	3.4	4.3	5.7	7.8	9.1	12.6	18.1	26.4
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.7	7.8	9.1	12.4	17.8	25.9
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	4.4	5.7	7.7	9.0	12.3	17.5	25.4
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	4.4	5.7	7.7	9.0	12.1	17.2	24.9
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	4.5	5.7	7.7	9.0	12.0	17.0	24.5
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	4.5	5.8	7.7	8.9	11.9	16.8	24.1
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	5.8	7.7	8.9	11.9	16.6	23.7
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	5.9	7.7	8.9	11.9	16.4	23.4
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	4.7	5.9	7.7	8.9	11.8	16.2	23.1
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	6.0	7.8	8.9	11.7	16.2	22.8
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	6.1	7.9	8.9	11.7	16.2	22.5
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	6.1	7.9	9.0	11.7	16.1	22.3
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	3.0	3.8	4.8	6.2	8.0	9.1	11.7	16.0	22.1
83	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.1	3.9	4.9	6.3	8.1	9.2	11.7	15.9	22.1
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	3.9	4.9	6.3	8.2	9.3	11.8	15.9	22.1
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	4.0	5.0	6.4	8.3	9.4	12.0	15.9	22.0
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	15.9	21.9
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	6.5	8.4	9.6	12.2	16.0	21.8
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	21.8
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	21.8
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	21.8
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	4.6	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

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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 57 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.4	3.9	4.5	4.9	5.5	6.2	7.0	7.5	8.6	10.2	12.3
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	4.2	4.7	5.3	5.9	6.6	7.5	8.0	9.1	10.8	13.0
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	4.4	5.0	5.7	6.3	7.0	8.0	8.5	9.7	11.4	13.7
4	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.5	3.1	3.8	4.6	5.4	6.0	6.7	7.5	8.5	9.1	10.3	12.1	14.4
5	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.7	5.6	6.4	7.2	8.0	9.1	9.7	11.0	12.8	15.2
6	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.3	4.0	4.9	5.9	6.8	7.7	8.6	9.7	10.3	11.7	13.6	16.0
7	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	5.0	6.1	7.2	8.1	9.2	10.3	11.0	12.4	14.4	16.9
8	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.3	4.2	5.1	6.3	7.5	8.6	9.8	11.0	11.7	13.2	15.2	17.9
9	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.2	5.2	6.5	7.8	9.1	10.4	11.8	12.5	14.0	16.2	18.9
10	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	4.2	5.3	6.7	8.1	9.5	11.0	12.6	13.3	14.9	17.1	20.0
11	0.0	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	5.4	6.8	8.3	9.9	11.6	13.3	14.2	15.9	18.2	21.1
12	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.4	7.0	8.5	10.3	12.2	14.1	15.1	16.9	19.3	22.4
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	2.9	4.1	5.5	7.1	8.7	10.6	12.7	14.9	15.9	18.0	20.5	23.7
14	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.9	3.9	5.4	7.1	8.9	10.9	13.2	15.7	16.8	19.1	21.8	25.1
15	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	7.2	9.0	11.1	13.6	16.3	17.7	20.2	23.1	26.5
16	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	3.7	5.1	7.2	9.2	11.4	14.0	17.0	18.5	21.3	24.6	28.1
17	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.6	5.0	7.1	9.3	11.6	14.3	17.6	19.3	22.4	25.9	29.8
18	0.0	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	6.9	9.3	11.7	14.6	18.1	20.0	23.5	27.3	31.6
19	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	9.2	11.9	14.9	18.6	20.6	24.5	28.7	33.4
20	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.5	9.1	12.0	15.1	19.0	21.1	25.4	30.2	35.1
21	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	3.2	4.5	6.4	8.8	11.9	15.4	19.4	21.6	26.2	31.5	36.9
22	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	3.1	4.4	6.2	8.5	11.8	15.5	19.7	22.1	26.9	32.7	38.8
23	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	6.1	8.3	11.5	15.6	20.0	22.5	27.6	33.9	40.6
24	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.5	2.1	3.0	4.1	5.9	8.1	11.2	15.5	20.3	22.8	28.1	34.9	42.3
25	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	2.9	4.0	5.8	7.9	10.9	15.3	20.5	23.1	28.7	35.8	43.8
26	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.8	3.9	5.6	7.7	10.6	14.9	20.5	23.4	29.2	36.6	45.2
27	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	7.6	10.4	14.5	20.4	23.5	29.6	37.3	46.5
28	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	10.1	14.1	20.1	23.4	30.0	38.0	47.7
29	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	9.9	13.8	19.5	23.2	30.2	38.6	48.7
30	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	9.7	13.5	19.0	22.7	30.3	39.2	49.6
31	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	13.2	18.5	22.0	30.1	39.6	50.5
32	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	12.9	18.1	21.5	29.7	40.0	51.3
33	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	12.6	17.7	21.0	29.0	40.0	52.0
34	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	12.3	17.4	20.6	28.7	39.8	52.6
35	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	6.0	8.5	12.0	17.1	20.1	27.6	39.3	53.0
36	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.9	8.2	11.7	16.7	19.8	27.0	38.3	53.1
37	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	4.0	5.7	8.0	11.4	16.3	19.4	26.5	37.4	52.8
38	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	15.9	18.9	26.0	36.6	52.1
39	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	5.3	7.6	10.8	15.5	18.5	25.5	35.8	50.9
40	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	2.5	3.7	5.2	7.4	10.5	15.1	18.0	25.0	35.1	49.7
41	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	3.6	5.0	7.1	10.2	14.7	17.6	24.4	34.5	48.7
42	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	2.3	3.4	4.9	6.9	9.9	14.3	17.2	23.9	33.9	47.7
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.9	1.2	1.6	2.3	3.3	4.8	6.7	9.7	13.9	16.7	23.3	33.1	46.8
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.5	9.4	13.6	16.3	22.8	32.6	46.0
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.5	6.4	9.1	13.2	15.9	22.2	31.9	45.3
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.2	8.8	12.9	15.5	21.7	31.2	44.5
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	3.0	4.2	6.0	8.6	12.6	15.1	21.1	30.5	43.6
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.1	5.8	8.4	12.2	14.7	20.6	29.8	42.7
49	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	20.1	29.1	41.8
50	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	2.8	3.9	5.5	8.0	11.6	13.9	19.7	28.4	40.9

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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 57 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.4	1.9	2.7	3.8	5.3	7.7	11.3	13.5	19.2	27.7	40.0
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	1.4	1.9	2.7	3.7	5.2	7.5	11.0	13.2	18.7	27.1	39.1
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	1.1	1.4	1.9	2.6	3.6	5.1	7.3	10.7	12.9	18.2	26.5	38.3
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	3.5	4.9	7.1	10.4	12.6	17.7	25.9	37.4
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	4.8	6.9	10.1	12.3	17.3	25.2	36.6
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	3.4	4.7	6.7	9.8	11.9	16.9	24.6	35.8
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	1.4	1.9	2.5	3.4	4.7	6.6	9.6	11.6	16.5	24.0	35.0
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	4.6	6.4	9.3	11.3	16.1	23.4	34.3
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	4.5	6.3	9.1	11.0	15.7	22.9	33.4
60	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.5	3.3	4.4	6.2	8.9	10.7	15.3	22.4	32.6
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	2.5	3.3	4.4	6.1	8.7	10.5	14.8	21.9	31.8
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	6.0	8.6	10.3	14.5	21.4	31.2
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	1.9	2.5	3.3	4.4	5.9	8.4	10.0	14.2	20.8	30.6
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	1.9	2.5	3.2	4.3	5.8	8.3	9.9	13.9	20.3	29.9
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	2.5	3.2	4.3	5.8	8.1	9.7	13.6	19.8	29.2
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	3.2	4.3	5.8	8.0	9.5	13.3	19.3	28.5
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	3.3	4.3	5.8	7.9	9.4	13.0	18.9	27.9
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	2.6	3.3	4.3	5.7	7.8	9.3	12.8	18.5	27.2
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	3.4	4.3	5.7	7.8	9.1	12.6	18.2	26.6
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	3.4	4.3	5.7	7.8	9.0	12.4	17.8	26.0
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.7	7.7	9.0	12.3	17.5	25.5
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	4.4	5.7	7.7	9.0	12.1	17.3	25.0
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	4.4	5.7	7.6	8.9	12.0	17.0	24.5
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	4.5	5.7	7.6	8.9	11.9	16.8	24.1
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	4.5	5.8	7.6	8.8	11.9	16.6	23.7
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	5.8	7.6	8.8	11.8	16.4	23.4
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	5.9	7.6	8.8	11.8	16.2	23.1
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	4.7	5.9	7.7	8.8	11.7	16.1	22.8
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	6.0	7.8	8.8	11.7	16.1	22.5
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	6.1	7.9	8.9	11.7	16.1	22.3
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	6.1	7.9	9.0	11.7	16.0	22.1
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	3.0	3.8	4.8	6.2	8.0	9.1	11.7	15.9	22.0
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	6.3	8.1	9.2	11.7	15.8	22.0
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	8.2	9.3	11.8	15.8	21.9
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	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.0	15.8	21.8
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	15.9	21.7
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	21.6
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	2.5	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.1	21.6
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	21.7
90	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.3	4.2	5.3	6.7	8.7	9.9	12.6	16.4	21.7
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	5.3	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	4.6	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

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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 50 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.2	0.3	0.4	0.4	0.6	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.5	5.0	5.6	6.3	7.1	7.6	8.8	10.4	12.5
2	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.7	7.6	8.1	9.3	11.0	13.2
3	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	5.8	6.4	7.2	8.1	8.7	9.9	11.6	13.9
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	3.8	4.6	5.4	6.1	6.9	7.7	8.7	9.2	10.5	12.3	14.6
5	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	4.8	5.7	6.5	7.3	8.2	9.2	9.9	11.2	13.0	15.4
6	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.3	1.8	2.5	3.3	4.0	4.9	6.0	6.9	7.8	8.8	9.9	10.5	11.9	13.8	16.3
7	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	5.0	6.2	7.3	8.3	9.4	10.5	11.2	12.6	14.6	17.2
8	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.3	4.2	5.1	6.4	7.6	8.8	10.0	11.3	11.9	13.4	15.5	18.2
9	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	4.2	5.2	6.6	7.9	9.2	10.6	12.0	12.7	14.3	16.4	19.2
10	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	4.2	5.3	6.7	8.1	9.6	11.2	12.8	13.6	15.2	17.4	20.3
11	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	4.2	5.4	6.8	8.4	10.0	11.8	13.5	14.5	16.2	18.5	21.5
12	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	5.4	7.0	8.6	10.4	12.3	14.3	15.3	17.3	19.7	22.8
13	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	5.4	7.1	8.7	10.7	12.8	15.1	16.2	18.4	20.9	24.1
14	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	5.4	7.1	8.9	10.9	13.3	15.9	17.1	19.4	22.2	25.5
15	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2	7.2	9.0	11.2	13.7	16.5	18.0	20.5	23.6	27.0
16	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	7.1	9.2	11.4	14.1	17.2	18.7	21.6	25.0	28.6
17	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	7.0	9.2	11.6	14.4	17.7	19.5	22.8	26.3	30.4
18	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.2	11.7	14.7	18.2	20.1	23.8	27.7	32.2
19	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.6	6.6	9.1	11.9	14.9	18.7	20.7	24.7	29.2	33.9
20	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.3	4.5	6.4	8.9	11.9	15.2	19.1	21.2	25.6	30.6	35.7
21	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	11.8	15.4	19.4	21.7	26.4	31.9	37.5
22	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	6.1	8.4	11.7	15.5	19.8	22.1	27.1	33.1	39.4
23	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	3.0	4.2	6.0	8.2	11.3	15.5	20.0	22.5	27.7	34.1	41.1
24	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.8	8.0	11.0	15.4	20.3	22.8	28.3	35.1	42.7
25	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	2.8	3.9	5.7	7.8	10.7	15.1	20.4	23.1	28.8	36.0	44.2
26	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	5.5	7.7	10.5	14.6	20.4	23.4	29.2	36.7	45.6
27	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	10.2	14.2	20.2	23.4	29.6	37.5	46.8
28	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	10.0	13.9	19.8	23.3	30.0	38.1	47.9
29	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	5.0	7.1	9.8	13.6	19.2	22.9	30.2	38.7	48.9
30	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	9.6	13.3	18.7	22.3	30.1	39.2	49.8
31	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	4.7	6.7	9.3	13.0	18.3	21.7	29.9	39.6	50.6
32	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	2.2	3.1	4.6	6.5	9.1	12.7	17.9	21.2	29.3	39.9	51.4
33	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	4.5	6.3	8.8	12.4	17.5	20.7	28.5	39.8	52.0
34	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	12.1	17.2	20.3	27.8	39.5	52.6
35	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	5.9	8.3	11.8	16.8	19.9	27.2	38.7	52.8
36	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	5.8	8.1	11.5	16.4	19.5	26.6	37.7	52.8
37	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	16.0	19.1	26.1	36.8	52.3
38	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	15.6	18.7	25.6	36.1	51.4
39	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	3.7	5.2	7.4	10.6	15.2	18.2	25.2	35.3	50.0
40	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	3.6	5.1	7.2	10.3	14.8	17.8	24.6	34.7	49.0
41	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	2.3	3.5	4.9	7.0	10.0	14.5	17.3	24.1	34.1	48.0
42	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	3.4	4.8	6.8	9.8	14.1	16.9	23.5	33.5	47.1
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.2	1.6	2.2	3.3	4.7	6.6	9.5	13.7	16.4	23.0	32.8	46.2
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.5	6.4	9.2	13.4	16.0	22.4	32.1	45.5
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.3	8.9	13.0	15.6	21.9	31.4	44.8
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.2	6.1	8.7	12.7	15.2	21.3	30.7	43.9
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.1	5.9	8.5	12.3	14.9	20.8	30.0	43.0
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.8	4.0	5.7	8.3	12.0	14.5	20.3	29.3	42.1
49	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	2.8	3.9	5.5	8.0	11.6	14.0	19.8	28.6	41.2
50	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	3.8	5.4	7.8	11.4	13.6	19.3	27.9	40.3

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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 50 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.4	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	3.3	4.3	6.0	8.6	10.3	14.6	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	8.4	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	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.5	1.9	2.5	3.2	4.3	5.8	8.2	9.7	13.6	19.9	29.4
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	2.5	3.2	4.3	5.7	8.0	9.5	13.3	19.4	28.7
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.2	4.2	5.7	7.9	9.4	13.1	19.0	28.0
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	3.3	4.2	5.7	7.8	9.3	12.8	18.6	27.4
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	3.3	4.2	5.7	7.7	9.1	12.6	18.2	26.7
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	3.4	4.2	5.6	7.7	9.0	12.4	17.9	26.1
70	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	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	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.6	7.7	8.9	12.1	17.3	25.1
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	4.4	5.6	7.6	8.9	11.9	17.0	24.6
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	4.4	5.6	7.6	8.9	11.8	16.8	24.2
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	4.5	5.7	7.6	8.8	11.8	16.6	23.8
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	3.6	4.5	5.8	7.6	8.8	11.8	16.4	23.4
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	2.2	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	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.2	2.9	3.6	4.6	5.9	7.6	8.8	11.7	16.1	22.8
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	4.7	5.9	7.7	8.8	11.6	16.0	22.5
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	6.0	7.8	8.8	11.6	16.0	22.3
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	6.1	7.9	8.9	11.6	15.9	22.0
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	2.3	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	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.2	1.5	1.9	2.4	3.0	3.8	4.8	6.2	8.0	9.1	11.6	15.8	21.8
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	6.3	8.1	9.2	11.7	15.8	21.8
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	8.2	9.3	11.8	15.8	21.7
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	4.0	5.0	6.4	8.3	9.4	12.0	15.8	21.6
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	4.6	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

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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 59 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.1	1.5	1.9	2.4	2.9	3.5	4.0	4.6	5.1	5.7	6.4	7.3	7.8	8.9	10.5	12.7
2	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.3	4.9	5.5	6.1	6.8	7.7	8.3	9.5	11.1	13.4
3	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	1.9	2.5	3.1	3.8	4.5	5.2	5.9	6.5	7.3	8.3	8.8	10.1	11.8	14.1
4	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.6	5.5	6.2	7.0	7.8	8.8	9.4	10.7	12.5	14.9
5	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	4.0	4.8	5.8	6.6	7.5	8.4	9.4	10.0	11.4	13.2	15.7
6	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.0	4.9	6.0	7.0	7.9	8.9	10.1	10.7	12.1	14.0	16.6
7	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.8	2.5	3.3	4.1	5.0	6.2	7.3	8.4	9.5	10.7	11.4	12.9	14.9	17.5
8	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.3	4.2	5.2	6.4	7.7	8.9	10.1	11.5	12.2	13.7	15.8	18.5
9	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.2	6.6	7.9	9.3	10.7	12.3	13.0	14.6	16.7	19.5
10	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.2	3.1	4.2	5.3	6.7	8.2	9.7	11.4	13.0	13.9	15.5	17.8	20.7
11	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.4	6.9	8.4	10.1	11.9	13.8	14.7	16.5	18.9	21.9
12	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.8	1.1	1.5	2.1	2.9	4.1	5.4	7.0	8.6	10.4	12.5	14.5	15.6	17.6	20.0	23.1
13	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.0	2.9	3.9	5.4	7.1	8.8	10.7	13.0	15.3	16.4	18.7	21.3	24.5
14	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	7.1	8.9	11.0	13.4	16.0	17.4	19.7	22.6	26.0
15	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	1.9	2.7	3.7	5.1	7.1	9.1	11.2	13.8	16.7	18.2	20.8	24.0	27.5
16	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.9	2.6	3.6	5.0	7.1	9.2	11.4	14.1	17.3	18.9	22.0	25.4	29.2
17	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.6	3.5	4.8	6.9	9.2	11.6	14.4	17.9	19.6	23.1	26.7	30.9
18	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	9.2	11.7	14.7	18.3	20.3	24.0	28.2	32.7
19	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.6	6.5	9.0	11.8	15.0	18.7	20.9	25.0	29.7	34.4
20	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	3.2	4.5	6.3	8.8	11.8	15.2	19.1	21.3	25.8	31.0	36.2
21	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	3.1	4.4	6.2	8.5	11.7	15.4	19.5	21.8	26.6	32.2	38.1
22	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	3.0	4.2	6.0	8.3	11.5	15.4	19.8	22.7	27.2	33.4	40.0
23	0.0	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	5.9	8.1	11.1	15.4	20.0	22.6	27.8	34.4	41.6
24	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	2.9	4.0	5.8	7.9	10.8	15.2	20.3	22.9	28.4	35.3	43.1
25	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	2.8	3.9	5.6	7.7	10.6	14.9	20.3	23.1	28.8	36.2	44.6
26	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	7.5	10.3	14.4	20.2	23.3	29.3	36.9	45.9
27	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	7.3	10.1	14.0	20.0	23.3	29.6	37.6	47.1
28	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	9.9	13.7	19.5	23.0	30.0	38.2	48.1
29	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	6.9	9.7	13.4	18.9	22.6	30.0	38.8	49.0
30	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	9.4	13.1	18.4	21.9	29.9	39.2	49.9
31	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	4.7	6.6	9.2	12.9	18.0	21.4	29.6	39.6	50.7
32	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	8.9	12.6	17.6	20.9	28.9	39.7	51.4
33	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	12.3	17.3	20.4	28.1	39.5	52.0
34	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	8.4	11.9	17.0	20.0	27.4	39.0	52.5
35	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.6	16.6	19.7	26.8	38.1	52.6
36	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	4.0	5.7	7.9	11.3	16.2	19.3	26.3	37.1	52.4
37	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	5.5	7.7	11.0	15.8	18.8	25.8	36.3	51.8
38	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	3.8	5.3	7.5	10.7	15.4	18.4	25.3	35.6	50.6
39	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	3.6	5.1	7.3	10.4	15.0	17.9	24.8	34.9	49.3
40	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	3.5	5.0	7.1	10.1	14.6	17.5	24.3	34.2	48.3
41	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	3.4	4.9	6.9	9.9	14.2	17.0	23.7	33.7	47.4
42	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	3.3	4.7	6.7	9.6	13.8	16.6	23.2	33.0	46.5
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.6	2.2	3.2	4.6	6.5	9.3	13.5	16.2	22.6	32.3	45.6
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.3	9.0	13.1	15.7	22.0	31.6	44.9
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.1	8.8	12.8	15.3	21.5	30.9	44.1
46	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.2	6.0	8.5	12.5	15.0	21.0	30.2	43.3
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.0	5.8	8.3	12.1	14.6	20.4	29.5	42.4
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.8	3.9	5.6	8.1	11.8	14.2	20.0	28.8	41.5
49	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	3.8	5.4	7.9	11.4	13.8	19.5	28.1	40.6
50	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	5.3	7.7	11.2	13.4	19.0	27.5	39.7

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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 59 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.4	1.9	2.6	3.7	5.1	7.4	10.9	13.1	18.5	26.8	38.8
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	1.4	1.9	2.6	3.6	5.0	7.2	10.6	12.8	18.0	26.2	37.9
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	1.4	1.9	2.5	3.5	4.9	7.0	10.3	12.5	17.5	25.6	37.1
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	1.1	1.4	1.8	2.5	3.5	4.8	6.8	10.0	12.1	17.1	25.0	36.2
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	1.1	1.4	1.8	2.5	3.4	4.7	6.7	9.7	11.8	16.8	24.3	35.4
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	1.1	1.4	1.8	2.5	3.3	4.6	6.5	9.5	11.5	16.3	23.7	34.7
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	1.4	1.8	2.5	3.3	4.5	6.4	9.2	11.1	15.9	23.2	33.9
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	6.2	9.0	10.9	15.5	22.7	33.1
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	6.1	8.8	10.6	15.1	22.2	32.2
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	4.3	6.0	8.6	10.4	14.7	21.7	31.5
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	3.2	4.3	5.9	8.5	10.1	14.3	21.1	30.8
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	5.8	8.3	9.9	14.0	20.6	30.2
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	1.9	2.5	3.2	4.3	5.8	8.2	9.7	13.7	20.1	29.6
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	1.9	2.5	3.2	4.2	5.7	8.1	9.6	13.4	19.6	28.9
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	2.5	3.2	4.2	5.7	7.9	9.4	13.1	19.1	28.2
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	3.2	4.2	5.7	7.8	9.3	12.9	18.7	27.5
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	3.3	4.2	5.7	7.7	9.2	12.7	18.3	26.9
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	2.6	3.3	4.2	5.6	7.7	9.0	12.5	18.0	26.2
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	3.4	4.2	5.6	7.7	8.9	12.3	17.6	25.7
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	3.4	4.3	5.6	7.6	8.9	12.1	17.3	25.2
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.6	7.6	8.9	12.0	17.1	24.7
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	1.3	1.7	2.1	2.7	3.5	4.4	5.6	7.5	8.8	11.8	16.8	24.2
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	4.4	5.6	7.5	8.8	11.8	16.6	23.8
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	3.5	4.5	5.7	7.5	8.7	11.7	16.4	23.5
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	4.5	5.8	7.5	8.7	11.7	16.2	23.1
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	5.8	7.5	8.7	11.6	16.0	22.8
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	5.9	7.6	8.7	11.6	15.9	22.5
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	2.3	2.9	3.7	4.7	5.9	7.7	8.8	11.5	15.9	22.3
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	6.0	7.8	8.8	11.5	15.9	22.0
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	1.8	2.3	3.0	3.8	4.7	6.1	7.9	8.9	11.5	15.8	21.8
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	2.3	3.0	3.8	4.8	6.1	7.9	9.0	11.5	15.7	21.7
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	3.0	3.8	4.8	6.2	8.0	9.1	11.6	15.7	21.8
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	6.3	8.1	9.2	11.7	15.7	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	8.2	9.3	11.9	15.7	21.5
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	1.9	2.4	3.1	4.0	5.0	6.4	8.3	9.4	12.0	15.7	21.4
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	4.0	5.1	6.5	8.3	9.5	12.1	15.8	21.4
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	21.4
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	21.4
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	21.4
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	4.6	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

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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 60 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.5	4.1	4.7	5.2	5.8	6.5	7.4	7.9	9.1	10.7	12.9
2	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.5	1.9	2.4	3.0	3.7	4.3	5.0	5.6	6.2	7.0	7.9	8.4	9.6	11.3	13.6
3	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.5	5.3	6.0	6.7	7.4	8.4	9.0	10.2	12.0	14.3
4	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.7	5.6	6.3	7.1	8.0	9.0	9.6	10.9	12.7	15.1
5	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.3	1.9	2.5	3.2	4.0	4.8	5.8	6.7	7.6	8.5	9.6	10.2	11.6	13.4	15.9
6	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.3	4.0	5.0	6.1	7.1	8.1	9.1	10.3	10.9	12.3	14.2	16.8
7	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.9	1.3	1.7	2.4	3.3	4.1	5.1	6.3	7.4	8.5	9.7	10.9	11.6	13.1	15.1	17.8
8	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.3	3.3	4.2	5.2	6.5	7.7	9.0	10.3	11.7	12.4	13.9	16.0	18.8
9	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.3	3.2	4.2	5.3	6.6	8.0	9.5	10.9	12.5	13.2	14.8	17.0	19.8
10	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	4.2	5.3	6.8	8.2	9.8	11.5	13.2	14.1	15.8	18.1	21.0
11	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	5.4	6.9	8.4	10.2	12.1	14.0	14.9	16.8	19.2	22.2
12	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	5.4	7.0	8.6	10.5	12.6	14.8	15.8	17.9	20.4	23.5
13	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	7.1	8.8	10.8	13.1	15.5	16.7	19.0	21.7	24.9
14	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2	7.1	8.9	11.0	13.5	16.2	17.6	20.1	23.0	26.4
15	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	7.1	9.1	11.3	13.9	16.9	18.4	21.2	24.4	28.0
16	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	9.2	11.4	14.2	17.4	19.1	22.3	25.8	29.7
17	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.2	11.6	14.5	18.0	19.8	23.3	27.2	31.5
18	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.6	6.6	9.1	11.7	14.8	18.4	20.4	24.3	28.6	33.2
19	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	2.4	3.3	4.5	6.4	8.9	11.8	15.0	18.8	21.0	25.2	30.1	35.0
20	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	11.8	15.2	19.2	21.4	26.0	31.3	36.8
21	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	6.1	8.4	11.6	15.4	19.5	21.9	26.7	32.5	38.7
22	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	3.0	4.2	6.0	8.2	11.3	15.4	19.8	22.3	27.3	33.6	40.4
23	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.8	8.0	11.0	15.3	20.1	22.6	27.9	34.6	42.0
24	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	2.8	3.9	5.7	7.8	10.7	15.0	20.2	22.9	28.4	35.5	43.5
25	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.6	10.4	14.6	20.2	23.1	28.9	36.3	44.9
26	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	7.4	10.2	14.2	20.1	23.2	29.3	37.0	46.2
27	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	7.2	10.0	13.8	19.7	23.1	29.7	37.7	47.3
28	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	5.0	7.0	9.8	13.5	19.1	22.8	29.9	38.3	48.3
29	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	6.8	9.5	13.2	18.6	22.2	29.9	38.8	49.2
30	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	4.7	6.6	9.3	13.0	18.2	21.6	29.7	39.2	50.1
31	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	2.2	3.1	4.6	6.4	9.0	12.7	17.8	21.1	29.2	39.5	50.8
32	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	4.5	6.3	8.8	12.4	17.4	20.6	28.4	39.5	51.5
33	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	8.5	12.1	17.1	20.2	27.7	39.2	52.0
34	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	16.7	19.8	27.1	38.5	52.4
35	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	2.8	4.0	5.7	8.0	11.4	16.3	19.4	26.5	37.5	52.3
36	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	7.8	11.1	16.0	19.0	25.9	36.6	52.0
37	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	10.8	15.6	18.5	25.5	35.8	51.1
38	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	1.8	2.5	3.7	5.2	7.4	10.5	15.2	18.1	25.0	35.1	49.8
39	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	3.6	5.1	7.2	10.2	14.8	17.6	24.5	34.4	48.7
40	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	1.7	2.3	3.5	4.9	7.0	10.0	14.4	17.2	23.9	33.8	47.7
41	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	3.3	4.8	6.7	9.7	14.0	16.8	23.4	33.3	46.7
42	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	3.2	4.6	6.5	9.4	13.6	16.3	22.8	32.6	45.9
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.5	6.4	9.1	13.3	15.9	22.3	31.9	45.1
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.2	8.9	12.9	15.5	21.7	31.2	44.4
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	3.0	4.2	6.0	8.6	12.6	15.1	21.2	30.5	43.6
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.1	5.8	8.4	12.2	14.7	20.6	29.8	42.7
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.8	4.0	5.7	8.2	11.9	14.3	20.1	29.1	41.8
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.8	3.9	5.5	8.0	11.6	13.9	19.6	28.4	40.9
49	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	3.8	5.3	7.7	11.3	13.5	19.2	27.7	40.0
50	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	7.5	11.0	13.2	18.7	27.0	39.1

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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 60 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.4	1.9	2.6	3.6	5.1	7.3	10.7	12.9	18.2	26.4	38.2
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	3.5	4.9	7.1	10.4	12.6	17.7	25.8	37.3
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	3.5	4.8	6.9	10.1	12.2	17.2	25.2	36.5
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	3.4	4.7	6.7	9.8	11.9	16.8	24.6	35.7
55	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.1	1.4	1.8	2.5	3.3	4.6	6.6	9.6	11.6	16.5	23.9	34.9
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	1.1	1.4	1.8	2.5	3.3	4.5	6.4	9.3	11.3	16.1	23.3	34.2
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	4.5	6.3	9.1	10.9	15.6	22.8	33.3
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	1.5	1.8	2.4	3.3	4.4	6.2	8.9	10.7	15.2	22.3	32.5
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	2.4	3.3	4.3	6.1	8.7	10.4	14.8	21.8	31.7
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	2.4	3.2	4.3	6.0	8.5	10.2	14.4	21.3	31.0
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	2.4	3.2	4.3	5.9	8.3	10.0	14.1	20.8	30.4
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	3.2	4.3	5.8	8.2	9.8	13.8	20.2	29.8
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	1.5	1.9	2.5	3.2	4.2	5.7	8.1	9.6	13.5	19.7	29.1
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	1.9	2.5	3.2	4.2	5.7	7.9	9.4	13.2	19.2	28.4
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	2.5	3.2	4.2	5.7	7.8	9.3	12.9	18.8	27.7
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	3.2	4.2	5.6	7.7	9.2	12.7	18.4	27.0
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	3.3	4.2	5.6	7.7	9.0	12.5	18.0	26.4
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	3.3	4.2	5.6	7.6	8.9	12.3	17.7	25.8
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	3.4	4.2	5.6	7.6	8.9	12.1	17.4	25.3
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	3.4	4.3	5.6	7.6	8.9	12.0	17.1	24.8
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.6	7.5	8.8	11.8	16.8	24.3
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	4.4	5.6	7.5	8.8	11.7	16.6	23.9
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	4.4	5.6	7.5	8.7	11.7	16.4	23.5
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	4.5	5.7	7.5	8.7	11.7	16.2	23.2
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	4.5	5.8	7.5	8.7	11.6	16.0	22.8
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	3.6	4.6	5.8	7.5	8.7	11.5	15.9	22.6
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	5.9	7.6	8.7	11.5	15.8	22.3
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	4.7	5.9	7.7	8.7	11.5	15.8	22.0
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	6.0	7.8	8.8	11.5	15.7	21.8
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	6.1	7.9	8.9	11.5	15.7	21.7
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	6.1	7.9	9.0	11.5	15.6	21.6
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	3.0	3.8	4.8	6.2	8.0	9.1	11.6	15.6	21.6
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	6.3	8.1	9.2	11.7	15.6	21.5
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	1.9	2.4	3.1	3.9	4.9	6.3	8.2	9.3	11.9	15.6	21.4
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	4.0	5.0	6.4	8.3	9.4	12.0	15.6	21.3
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	2.5	3.2	4.0	5.1	6.5	8.3	9.5	12.1	15.8	21.3
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	3.2	4.0	5.1	6.5	8.4	9.6	12.2	16.0	21.3
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	5.2	6.6	8.5	9.7	12.3	16.1	21.3
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	4.1	5.2	6.7	8.6	9.8	12.5	16.3	21.4
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	4.6	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

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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 61 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.8	5.3	5.9	6.6	7.5	8.0	9.2	10.8	13.1
2	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	5.1	5.7	6.3	7.1	8.0	8.6	9.8	11.5	13.8
3	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.5	5.4	6.1	6.8	7.6	8.6	9.1	10.4	12.2	14.5
4	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.2	3.9	4.7	5.6	6.4	7.3	8.1	9.2	9.7	11.1	12.9	15.3
5	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.2	4.0	4.9	5.9	6.8	7.7	8.7	9.8	10.4	11.8	13.7	16.2
6	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	5.0	6.1	7.2	8.2	9.3	10.4	11.1	12.5	14.5	17.1
7	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	4.1	5.1	6.3	7.5	8.7	9.9	11.2	11.8	13.3	15.4	18.0
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	7.8	9.1	10.5	11.9	12.6	14.2	16.3	19.1
9	0.0	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	6.6	8.1	9.6	11.1	12.7	13.5	15.1	17.3	20.2
10	0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.6	2.2	3.0	4.2	5.3	6.8	8.3	9.9	11.7	13.4	14.3	16.1	18.4	21.3
11	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	4.1	5.4	6.9	8.5	10.3	12.2	14.2	15.2	17.1	19.5	22.6
12	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	3.9	5.4	7.0	8.7	10.6	12.7	15.0	16.1	18.2	20.8	23.9
13	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	5.3	7.1	8.8	10.8	13.2	15.7	17.0	19.3	22.1	25.4
14	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	3.7	5.1	7.1	8.9	11.1	13.6	16.4	17.8	20.4	23.4	26.9
15	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.6	3.6	5.0	7.1	9.1	11.3	13.9	17.0	18.6	21.5	24.8	28.5
16	0.0	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	6.9	9.1	11.5	14.3	17.6	19.3	22.6	26.2	30.2
17	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	9.1	11.6	14.5	18.1	20.0	23.6	27.6	32.0
18	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.7	2.4	3.3	4.6	6.5	9.0	11.7	14.8	18.5	20.6	24.5	29.1	33.7
19	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	3.2	4.5	6.3	8.8	11.8	15.0	18.9	21.1	25.4	30.4	35.5
20	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	3.1	4.4	6.2	8.5	11.7	15.2	19.3	21.5	26.2	31.7	37.3
21	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	3.0	4.2	6.0	8.3	11.5	15.3	19.6	21.9	26.9	32.8	39.2
22	0.0	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	5.9	8.1	11.1	15.3	19.8	22.3	27.4	33.9	40.9
23	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	2.9	4.0	5.7	7.9	10.8	15.2	20.1	22.6	28.0	34.9	42.5
24	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	2.8	3.9	5.6	7.7	10.5	14.8	20.2	22.9	28.5	35.7	43.9
25	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.7	3.7	5.4	7.5	10.3	14.4	20.1	23.1	28.9	36.4	45.3
26	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	7.3	10.1	14.0	19.9	23.1	29.3	37.2	46.5
27	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	9.8	13.7	19.4	22.9	29.7	37.8	47.5
28	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	6.9	9.6	13.3	18.8	22.5	29.8	38.3	48.5
29	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	6.7	9.4	13.1	18.4	21.8	29.7	38.8	49.4
30	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	2.2	3.2	4.7	6.5	9.1	12.8	18.0	21.3	29.4	39.2	50.2
31	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	6.3	8.9	12.5	17.6	20.8	28.8	39.4	50.9
32	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	8.6	12.2	17.2	20.3	27.9	39.2	51.5
33	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	16.9	19.9	27.3	38.8	52.0
34	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.4	2.0	2.8	4.1	5.8	8.2	11.6	16.5	19.5	26.7	38.0	52.2
35	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	4.0	5.6	7.9	11.3	16.1	19.2	26.1	36.9	52.0
36	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	5.3	7.7	11.0	15.7	18.7	25.6	36.1	51.4
37	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	3.7	5.3	7.5	10.6	15.3	18.3	25.2	35.4	50.4
38	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	3.6	5.1	7.3	10.4	14.9	17.8	24.7	34.7	49.1
39	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	3.5	5.0	7.1	10.1	14.5	17.4	24.1	34.0	48.0
40	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	3.4	4.8	6.8	9.8	14.1	16.9	23.6	33.4	47.1
41	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	3.3	4.7	6.6	9.6	13.8	16.5	23.0	32.8	46.2
42	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	3.2	4.6	6.4	9.3	13.4	16.1	22.5	32.1	45.3
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.1	4.4	6.3	9.0	13.1	15.6	21.9	31.4	44.6
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.1	8.7	12.7	15.2	21.4	30.7	43.8
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.1	5.9	8.5	12.4	14.9	20.8	30.0	43.0
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.8	4.0	5.7	8.3	12.0	14.5	20.3	29.3	42.1
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.8	3.9	5.6	8.1	11.7	14.1	19.8	28.6	41.2
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.8	5.4	7.8	11.4	13.7	19.3	27.9	40.3
49	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	18.9	27.2	39.4
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.6	5.1	7.4	10.8	13.0	18.4	26.6	38.5

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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 61 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	1.4	1.9	2.6	3.5	5.0	7.1	10.5	12.7	17.8	26.0	37.6
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	3.5	4.9	7.0	10.2	12.4	17.4	25.4	36.7
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	1.8	2.5	3.4	4.7	6.8	9.9	12.0	17.0	24.8	35.9
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	1.8	2.5	3.4	4.6	6.6	9.6	11.7	16.6	24.1	35.1
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	1.1	1.4	1.8	2.5	3.3	4.6	6.5	9.4	11.4	16.2	23.5	34.4
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	1.1	1.4	1.8	2.5	3.3	4.5	6.3	9.2	11.0	15.8	23.0	33.6
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	1.8	2.4	3.3	4.4	6.2	8.9	10.8	15.4	22.5	32.8
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	1.8	2.4	3.2	4.3	6.1	8.7	10.5	15.0	22.0	31.9
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	1.8	2.4	3.2	4.3	6.0	8.5	10.3	14.5	21.5	31.2
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	3.2	4.3	5.9	8.4	10.0	14.2	20.9	30.5
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	2.4	3.2	4.3	5.8	8.2	9.8	13.9	20.4	30.0
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	1.9	2.5	3.2	4.2	5.7	8.1	9.6	13.6	19.9	29.3
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	4.2	5.7	8.0	9.5	13.3	19.4	28.6
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	1.9	2.5	3.2	4.2	5.7	7.8	9.3	13.0	18.9	27.9
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	2.5	3.2	4.2	5.6	7.7	9.2	12.7	18.5	27.3
66	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.6	2.0	2.6	3.2	4.2	5.6	7.6	9.1	12.5	18.1	26.6
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	3.3	4.2	5.6	7.6	8.9	12.3	17.8	26.0
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	3.3	4.2	5.5	7.6	8.8	12.2	17.4	25.4
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	3.4	4.2	5.5	7.6	8.8	12.0	17.1	24.9
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	3.4	4.3	5.5	7.5	8.8	11.8	16.9	24.4
71	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.0	1.3	1.7	2.1	2.7	3.4	4.3	5.5	7.5	8.8	11.7	16.6	24.0
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	4.4	5.6	7.5	8.7	11.6	16.4	23.6
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	4.4	5.6	7.5	8.7	11.6	16.2	23.2
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	4.5	5.7	7.5	8.6	11.6	16.0	22.9
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	4.5	5.8	7.5	8.6	11.5	15.8	22.6
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	5.8	7.5	8.6	11.4	15.8	22.3
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	5.9	7.6	8.7	11.4	15.8	22.0
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	4.7	5.9	7.7	8.7	11.4	15.7	21.8
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	6.0	7.8	8.9	11.4	15.6	21.6
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	6.1	7.9	8.9	11.4	15.5	21.5
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	6.1	7.9	9.0	11.5	15.5	21.5
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	3.0	3.8	4.8	6.2	8.0	9.1	11.6	15.5	21.4
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	6.3	8.1	9.2	11.7	15.5	21.3
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	3.1	3.9	4.9	6.3	8.2	9.3	11.9	15.5	21.2
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	4.0	5.0	6.4	8.3	9.4	12.0	15.6	21.2
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	21.2
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	16.0	21.2
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	3.2	4.1	5.2	6.6	8.5	9.7	12.3	16.1	21.2
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	4.1	5.2	6.7	8.6	9.8	12.5	16.3	21.4
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	4.6	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

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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 62 PERCENT RELATIVE HUMIDITY

TEMPERATURE, DEGREES FAHRENHEIT	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	0.6	0.8	1.1	1.5	1.9	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.7	7.7	8.2	9.4	11.0	13.2
2	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.4	3.1	3.7	4.4	5.1	5.8	6.5	7.2	8.2	8.7	9.9	11.6	13.9
3	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	1.0	1.4	1.9	2.5	3.1	3.8	4.6	5.4	6.2	6.9	7.7	8.7	9.3	10.6	12.3	14.7
4	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.7	1.0	1.3	1.9	2.5	3.2	3.9	4.7	5.7	6.5	7.4	8.3	9.3	9.9	11.2	13.1	15.5
5	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.8	2.5	3.2	4.0	4.9	5.9	6.9	7.8	8.8	10.0	10.6	12.0	13.9	16.4
6	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	6.2	7.3	8.3	9.4	10.6	11.3	12.7	14.7	17.3
7	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	6.4	7.6	8.8	10.0	11.4	12.1	13.6	15.6	18.3
8	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	4.2	5.2	6.5	7.9	9.2	10.6	12.1	12.9	14.4	16.6	19.4
9	0.0	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	6.7	8.1	9.6	11.2	12.9	13.7	15.4	17.6	20.5
10	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	5.3	6.8	8.3	10.0	11.8	13.6	14.6	16.4	18.7	21.7
11	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	5.4	6.9	8.5	10.3	12.4	14.4	15.4	17.5	19.9	23.0
12	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	7.0	8.7	10.6	12.8	15.2	16.3	18.5	21.1	24.3
13	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.0	2.7	3.8	5.2	7.1	8.8	10.9	13.3	15.9	17.2	19.6	22.4	25.8
14	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	7.1	9.0	11.1	13.7	16.6	18.0	20.7	23.9	27.3
15	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	9.1	11.3	14.0	17.2	18.8	21.8	25.2	29.0
16	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.8	2.5	3.5	4.8	6.8	9.1	11.5	14.3	17.7	19.5	22.9	26.6	30.7
17	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	0.9	1.2	1.7	2.4	3.4	4.6	6.6	9.1	11.6	14.6	18.2	20.1	23.9	28.0	32.5
18	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	4.5	6.4	8.9	11.7	14.8	18.6	20.7	24.8	29.5	34.2
19	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	6.2	8.6	11.7	15.0	19.0	21.1	25.6	30.8	36.0
20	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	6.1	8.4	11.6	15.2	19.3	21.6	26.3	32.0	37.9
21	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	3.0	4.2	5.9	8.2	11.3	15.3	19.6	22.0	27.0	33.1	39.7
22	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	1.0	1.4	2.1	2.9	4.1	5.8	8.0	11.0	15.2	19.8	22.3	27.5	34.1	41.3
23	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	2.8	3.9	5.7	7.8	10.7	15.0	20.0	22.6	28.1	35.1	42.9
24	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.9	1.3	1.9	2.7	3.8	5.5	7.6	10.4	14.6	20.1	22.9	28.6	35.9	44.3
25	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.9	1.3	1.9	2.6	3.7	5.3	7.4	10.2	14.2	20.0	23.0	29.0	36.6	45.6
26	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	7.2	9.9	13.8	19.6	22.9	29.3	37.3	46.7
27	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	5.0	7.0	9.7	13.5	19.1	22.7	29.6	37.9	47.7
28	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	4.9	6.8	9.5	13.2	18.6	22.2	29.7	38.4	48.6
29	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	12.9	18.1	21.5	29.5	38.8	49.5
30	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	2.2	3.1	4.6	6.4	9.0	12.6	17.7	21.0	29.1	39.2	50.2
31	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	1.0	1.5	2.2	3.0	4.4	6.2	8.8	12.3	17.3	20.5	28.3	39.2	50.9
32	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	8.5	12.0	17.0	20.1	27.6	39.0	51.5
33	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	11.7	16.7	19.7	26.9	38.4	51.9
34	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	2.8	4.0	5.7	8.0	11.4	16.3	19.3	26.4	37.4	51.9
35	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	5.5	7.8	11.1	15.9	18.9	25.8	36.5	51.6
36	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	3.8	5.4	7.6	10.8	15.5	18.5	25.3	35.7	50.8
37	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	3.7	5.2	7.4	10.5	15.1	18.0	24.9	34.9	49.6
38	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	3.6	5.0	7.2	10.2	14.7	17.6	24.3	34.2	48.4
39	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	3.5	4.9	6.9	9.9	14.3	17.1	23.8	33.6	47.4
40	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	3.3	4.8	6.7	9.7	13.9	16.7	23.2	33.1	46.5
41	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	3.2	4.6	6.5	9.4	13.5	16.2	22.7	32.4	45.6
42	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	3.1	4.5	6.3	9.1	13.2	15.8	22.1	31.7	44.8
43	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.1	3.0	4.3	6.2	8.8	12.9	15.4	21.6	31.0	44.1
44	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.5	2.0	2.9	4.2	6.0	8.6	12.5	15.0	21.0	30.3	43.3
45	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.9	4.1	5.8	8.4	12.2	14.6	20.5	29.6	42.4
46	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	2.0	2.8	3.9	5.6	8.2	11.8	14.3	20.0	28.9	41.5
47	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.8	5.4	7.9	11.5	13.8	19.5	28.2	40.6
48	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.1	1.4	1.9	2.7	3.7	5.3	7.7	11.2	13.4	19.1	27.5	39.7
49	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.6	5.2	7.5	10.9	13.1	18.6	26.8	38.8
50	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.8	1.1	1.4	1.9	2.6	3.6	5.0	7.2	10.6	12.8	18.0	26.2	37.9

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