



# AW526-LS

**High Power 2-Way  
All Weather  
Loudspeaker with 1 x 15" LF**

## Professional Series

### Key Features:

- ▶ Weather-Resistant, All Fiberglass Enclosure
- ▶ EN54-24 Compliant
- ▶ 120° x 60° Coverage
- ▶ 2265H Differential Drive® Low-Frequency Driver
- ▶ 2432H High Frequency Compression Driver
- ▶ Large PT™ Progressive Transition waveguide for excellent pattern control and low distortion
- ▶ Rotatable waveguide for vertical or horizontal orientation
- ▶ Available in Gray and Black finish
- ▶ 500W, 70/100V Transformer Included
- ▶ U-type Mounting Bracket Included



### Applications:

- ▶ Sports Facilities
- ▶ Themed Entertainment Venues
- ▶ Outdoor Entertainment Centers
- ▶ Cruise Ships
- ▶ Water Parks

The AW526-LS is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2265H 380 mm (15 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition wave-guide provides excellent 120° x 60° coverage. The waveguide is rotatable so the loudspeaker system can be used in either the vertical or horizontal orientation. The system can be operated as an 8-ohm device and is equipped with a 500W transformer for 70/100V applications.

A corrosion-resistant extra-thick zinc-plated polyester powder coated U-type mounting bracket is included.

The enclosure is constructed of multilayer glass composite and is heavily braced to maximize low-frequency performance. The 16-gauge stainless steel grille, backed with open cell foam and stainless steel mesh, provides excellent protection in the harshest environments.

The AW526-LS is part of JBL's AE Series, a versatile family of loudspeakers intended for a wide variety of applications.

### Specifications:

System:	
Frequency Range (-10 dB):	39 Hz – 20 kHz
Frequency Response (±3 dB):	86 Hz – 17 kHz
Coverage Pattern:	120° x 60°, rotatable waveguide
Coverage Angle:	500 Hz    1000 Hz    2000 Hz    4000 Hz
Horizontal:	135°    98°    115°    108°
Vertical:	108°    95°    67°    46°
Directivity Factor (Q):	7.9
Directivity Index (DI):	9 dB
Crossover Frequency:	1.1 kHz
Long-Term System Power Rating (IEC) <sup>1</sup> :	400 W (1600 W peak), 100 hrs.
Maximum SPL:	127 dB-SPL cont avg (133 dB peak)
Maximum SPL (@ 4m):	108 dB per EN54 Standard
System Sensitivity (1W @ 1m) <sup>2</sup> :	100 dB
Sensitivity (1W @ 4m):	86.98 dB SPL
70V / 100V Transformer Taps <sup>3</sup> :	70V: 500W, 250W, 125W (Nominal Impedance: 10 ohms, 20 ohms, 40 ohms) 100V: 500W, 250W (Nominal Impedance: 20 ohms, 40 ohms)
Transducers:	
Low Frequency Driver:	1 x JBL 2265H 380 mm (15 in.) Differential Drive® driver with 75 mm (3 in) dual voice coil
Nominal Impedance:	8 ohms (6.2 Ohms per EN54)
Sensitivity <sup>4</sup> (1W @ 1m, within operational band):	98 dB SPL
High Frequency Driver:	JBL 2432H, 38 mm (1.5 in) exit compression driver, 75 mm (3 in) voice coil
Nominal Impedance:	8 ohms (6.2 Ohms per EN54)
Sensitivity <sup>4</sup> (1W @ 1m):	113 dB SPL
Waveguide:	PT-H126HF-1
Physical:	
Enclosure:	Hand-Laminated Fiberglass, gray gelcoat (similar to Pantone 420C), available in black (-BK)
Suspension Attachment:	2 x M10 for Included U-Bracket, 2 x M6 for aiming stabilization, 1 x M10 on rear for safety.
Grille:	Three layer grille assemblies consisting of 16-gauge powder coated stainless steel, backed with open cell foam and stainless steel mesh.
Input Connection:	CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (.375 in) spade lugs.
Environmental Specifications:	IP55C per IEC 529
Dimensions (H x W x D in horizontal cabinet orientation):	485 x 810 x 478 mm (19.1 x 31.9 x 18.8 in)
Net Weight:	28.3 kg (62.5 lb)

<sup>1</sup>IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.

<sup>2</sup>Calculated based on power rating and sensitivity, exclusive of power compression.

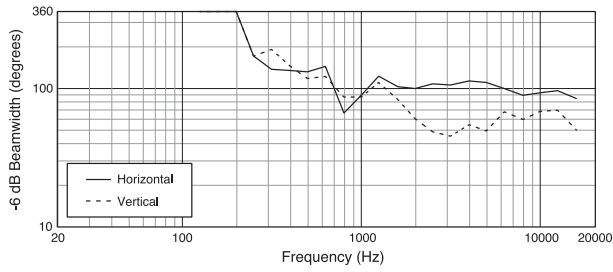
<sup>3</sup>Anechoic sensitivity in free field, no additional sensitivity gain from boundary loading.

<sup>4</sup>Per EN54-24 Components of voice alarm system - loudspeakers 70V/500W (35V RMS, 70V peak), 100V/500W (50V RMS, 100V peak)

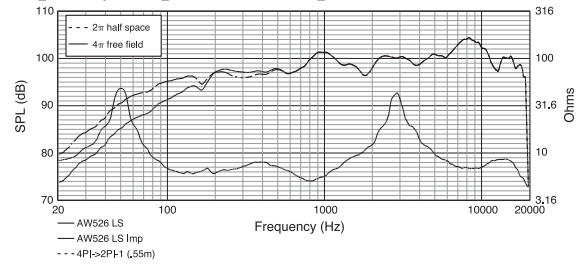
JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

# ► AW526-LS High Power 2-Way All Weather Loudspeaker with 1 x 15" LF

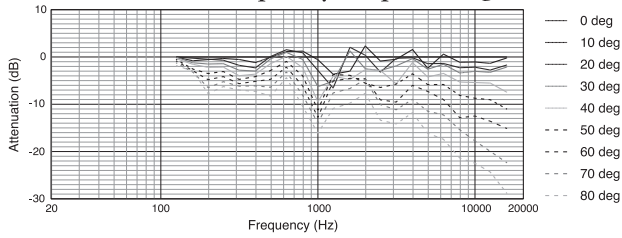
**Beamwidth**



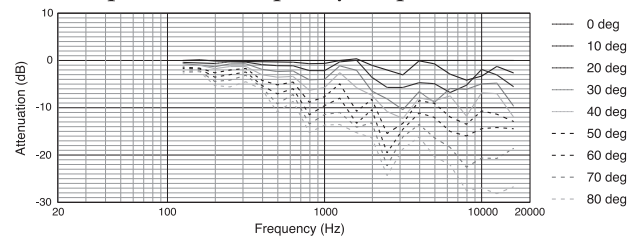
**Frequency Response and Impedance**



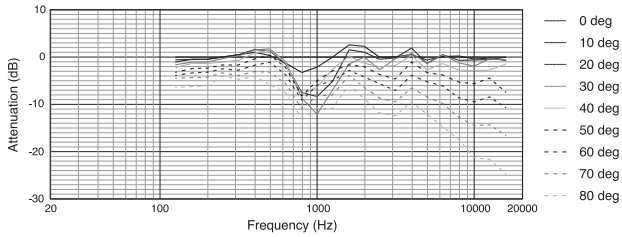
**Horizontal Off-Axis Frequency Response Right**



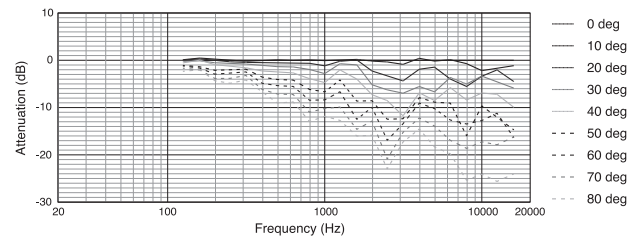
**Vertical Up Off-Axis Frequency Response**



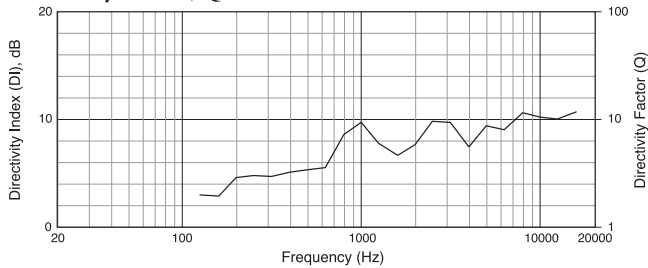
**Horizontal Off-Axis Frequency Response Left**



**Vertical Down Off-Axis Frequency Response**



**Directivity Index, Q**



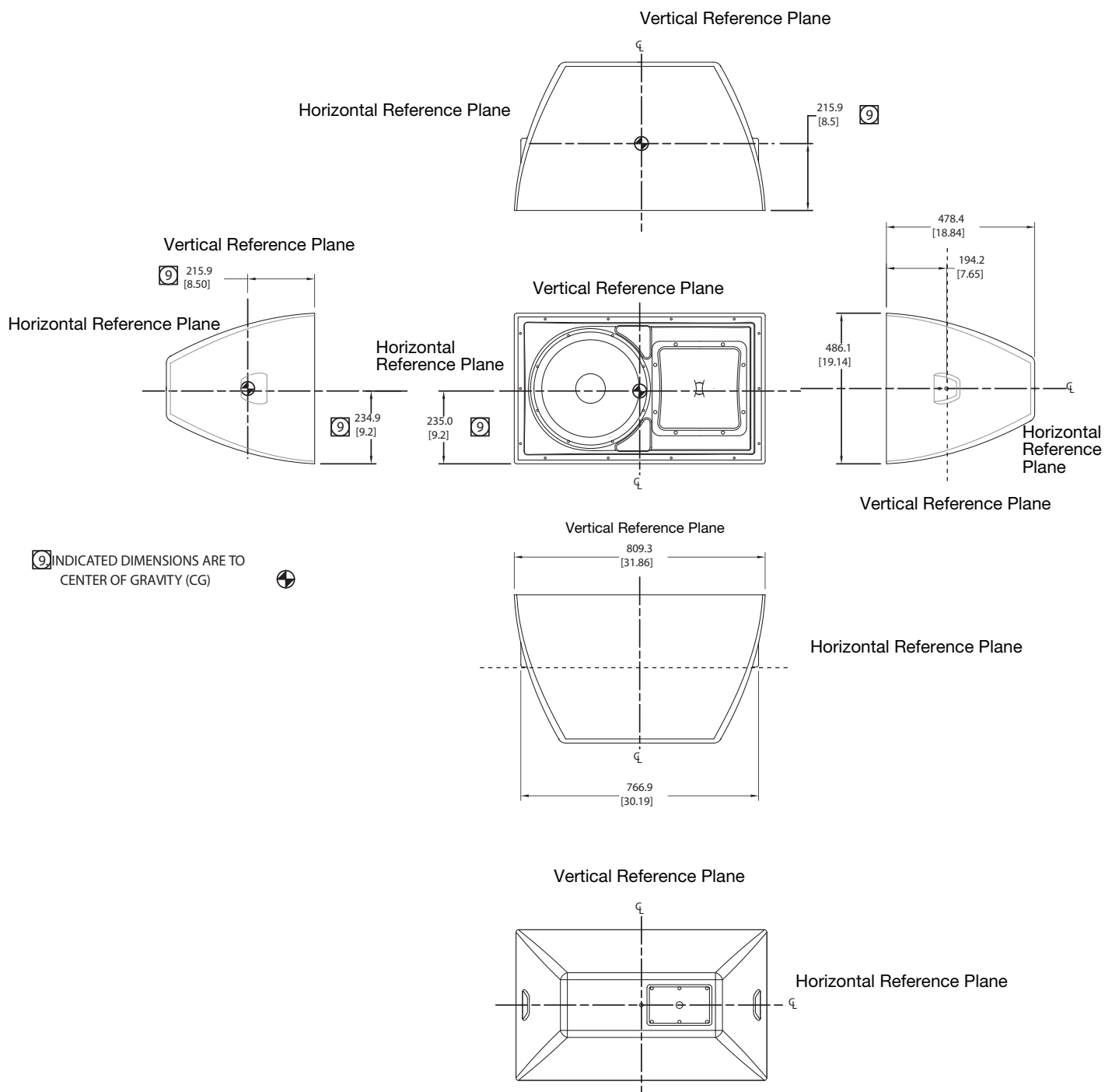
Measurements obtained in full passive crossover mode with no signal processing. Graphs are from unaltered measured data.

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## Dimensions

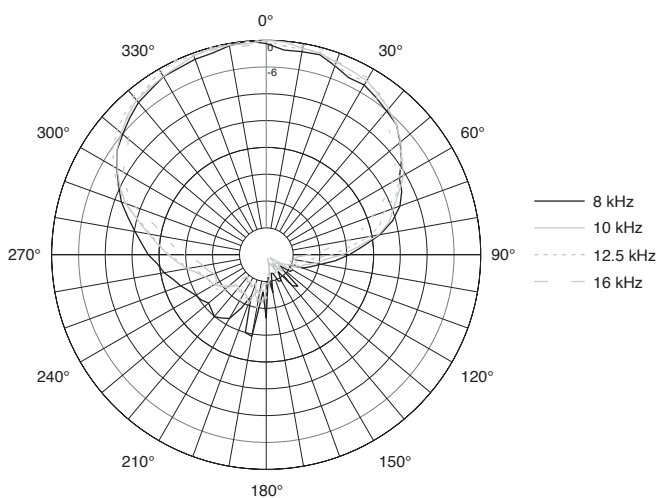
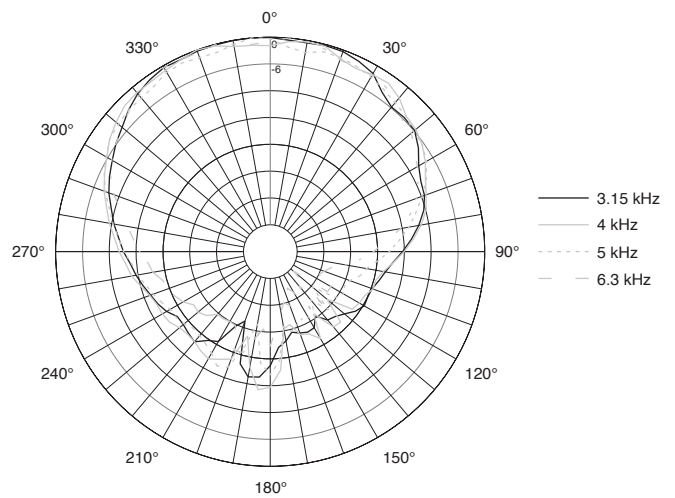
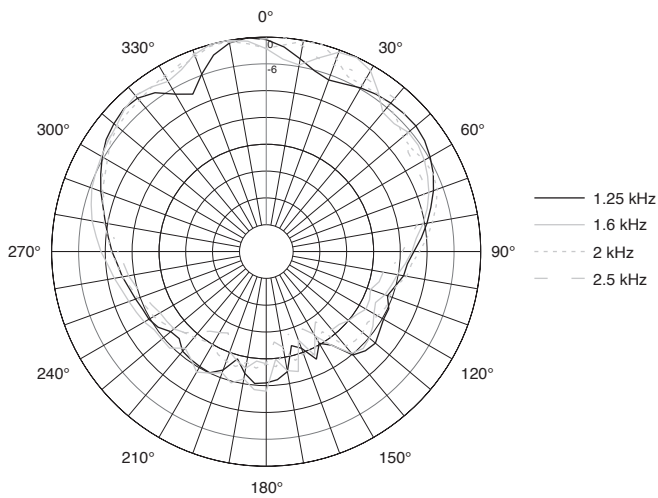
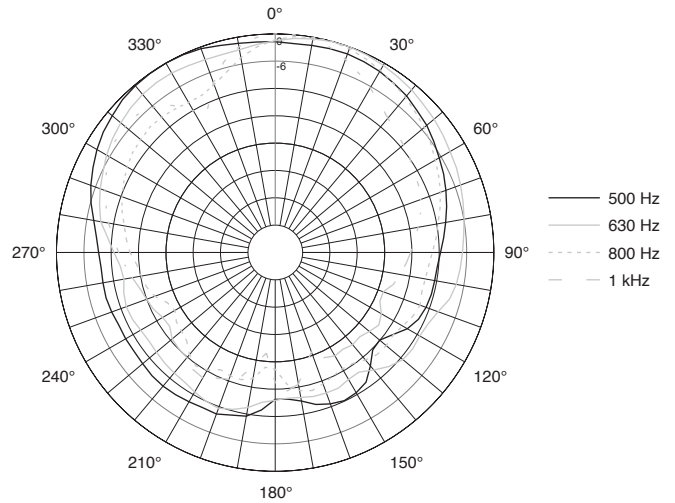
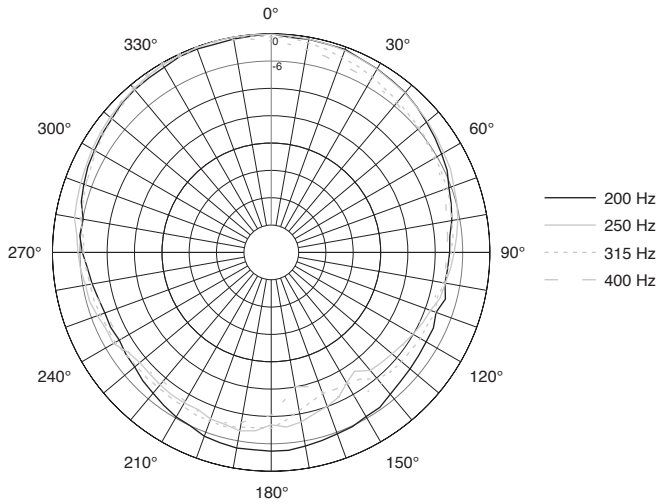
Dimensions in mm (in)

For more detailed dimensional information, refer to Application Data Sheet



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**Horizontal 1/3 Octave Polars**

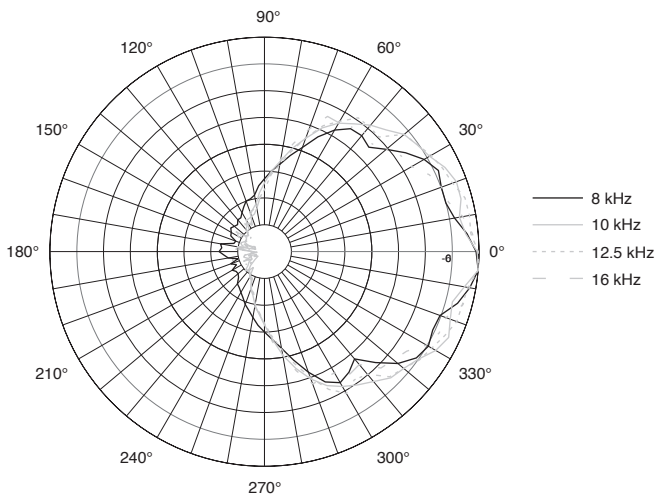
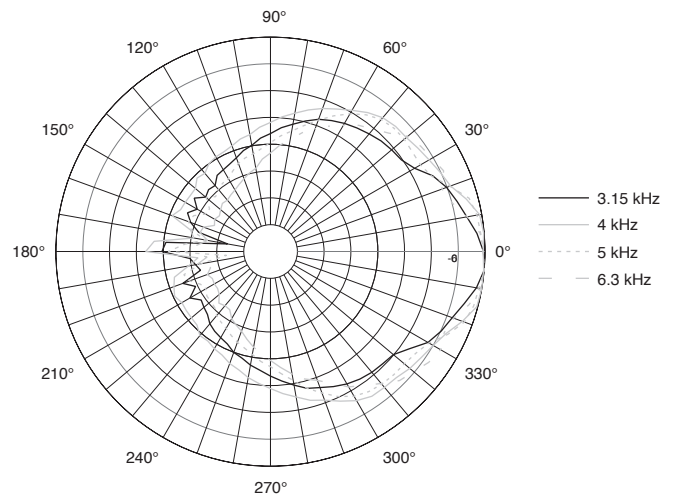
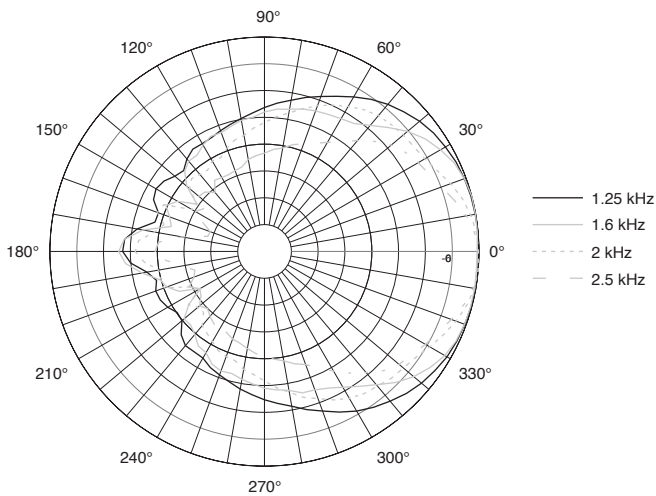
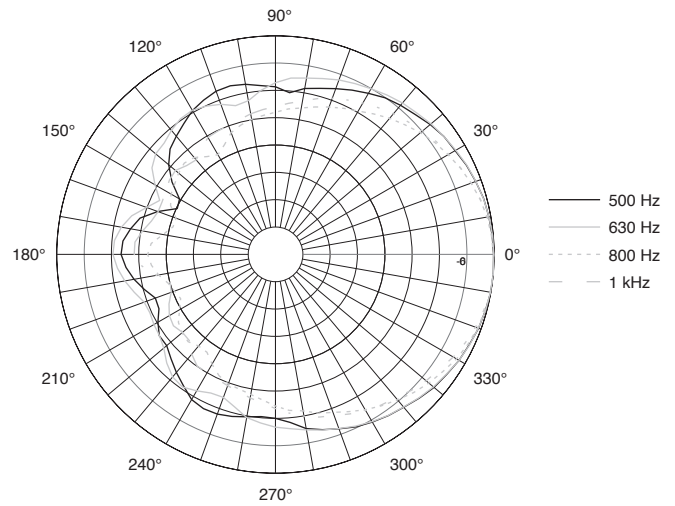
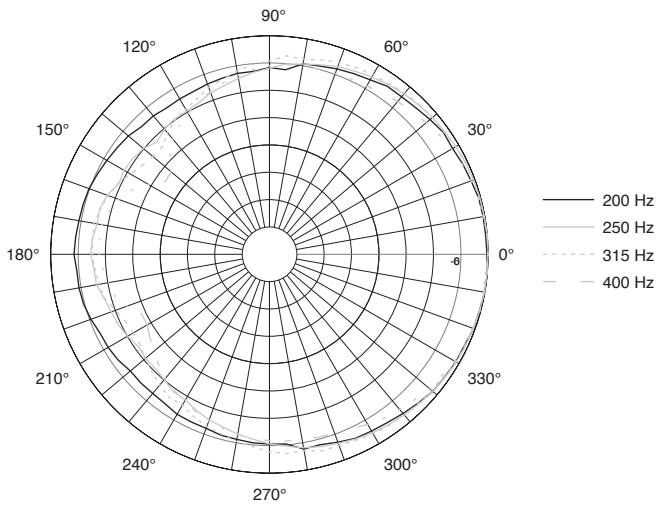


**One-Third Octave Contributions to Frequency Response (per EN54-24)**

Frequency (Hz)	Sound Level Measured (dB)
500	74
630	75
800	75
1000	76
1250	73
1600	71
2000	73
2500	77
3150	77
4000	74

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**Vertical 1/3 Octave Polars**



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