

# RADIATION PATTERN ENVELOPE

Antenna Type Number: SHP2-23  
2.00 Foot Antenna 21.200-23.600 GHz Single Polarized  
Gain: 40.50 dBi at 22.400 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

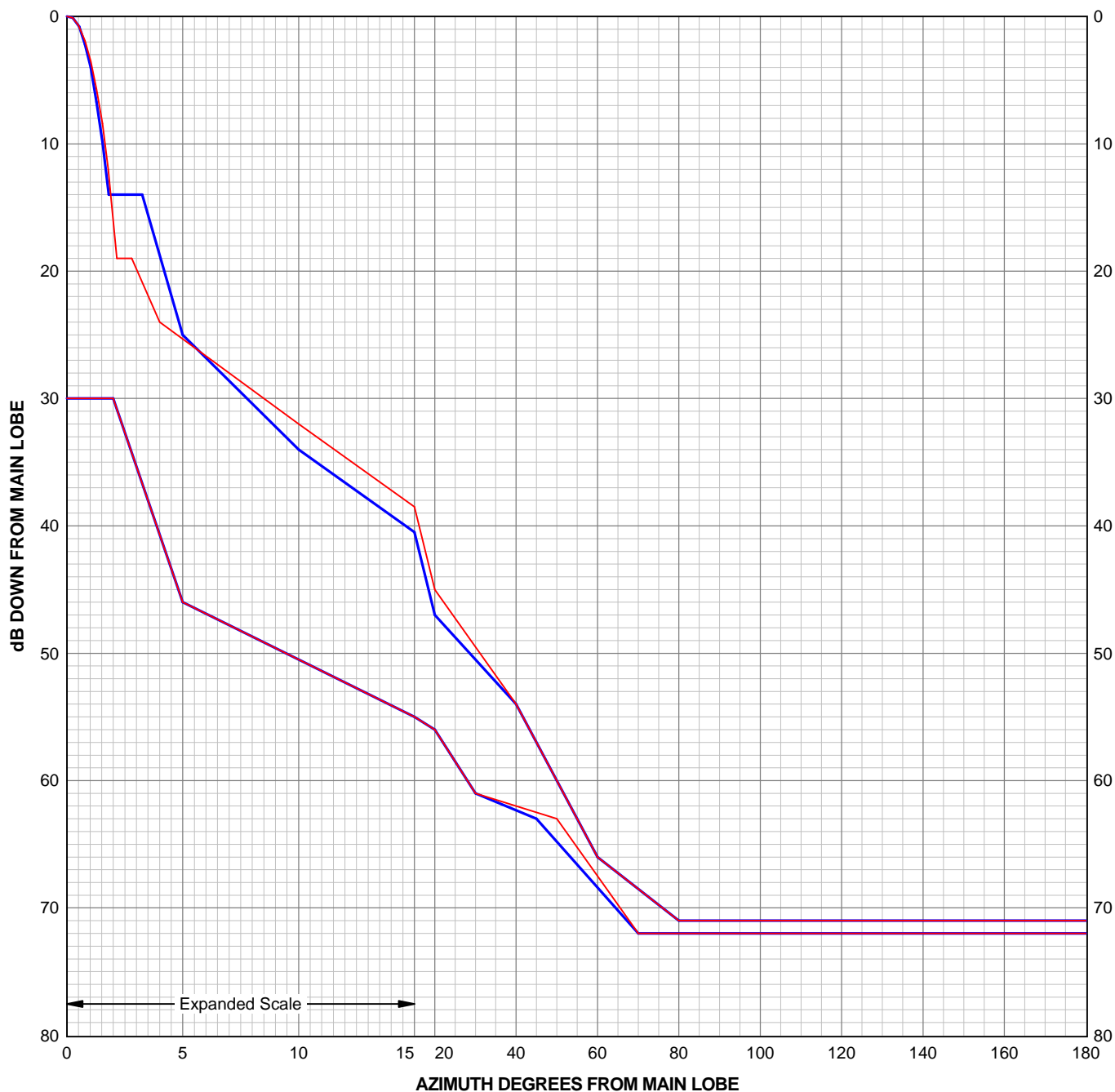
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7257B

Engineering Approved:  
14 August 2013

ANDREW CORPORATION



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Angle	H/H dB	Angle	H/V dB	Angle	V/V dB	Angle	V/H dB
0.00	0.00	0.00	-30.00	0.00	0.00	0.00	-30.00
0.25	-0.10	2.00	-30.00	0.25	-0.10	2.00	-30.00
0.53	-0.80	5.00	-46.00	0.50	-0.70	5.00	-46.00
0.78	-2.20	15.00	-55.00	0.78	-1.90	15.00	-55.00
1.03	-4.00	20.00	-56.00	1.03	-3.50	20.00	-56.00
1.28	-6.70	30.00	-61.00	1.28	-5.70	30.00	-61.00
1.55	-10.00	45.00	-63.00	1.53	-8.40	50.00	-63.00
1.80	-14.00	70.00	-72.00	1.78	-12.00	70.00	-72.00
3.25	-14.00	180.00	-72.00	2.15	-19.00	180.00	-72.00
5.00	-25.00			2.80	-19.00		
10.00	-34.00			4.00	-24.00		
20.00	-47.00			10.00	-32.00		
40.00	-54.00			20.00	-45.00		
60.00	-66.00			40.00	-54.00		
80.00	-71.00			60.00	-66.00		
180.00	-71.00			80.00	-71.00		
				180.00	-71.00		

The RPE is defined by connecting these points with straight lines.

**PARALLEL POLARIZATION**

HH - Horizontal port response to a horizontal signal

VV - Vertical port response to a vertical signal

**CROSS POLARIZATION**

HV - Horizontal port response to a vertical signal

VH - Vertical port response to a horizontal signal

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