

# RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLP200-80/A  
0.65 Foot Antenna 71.000-86.000 GHz Single Polarized  
Gain: 44.20 dBi at 78.500 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

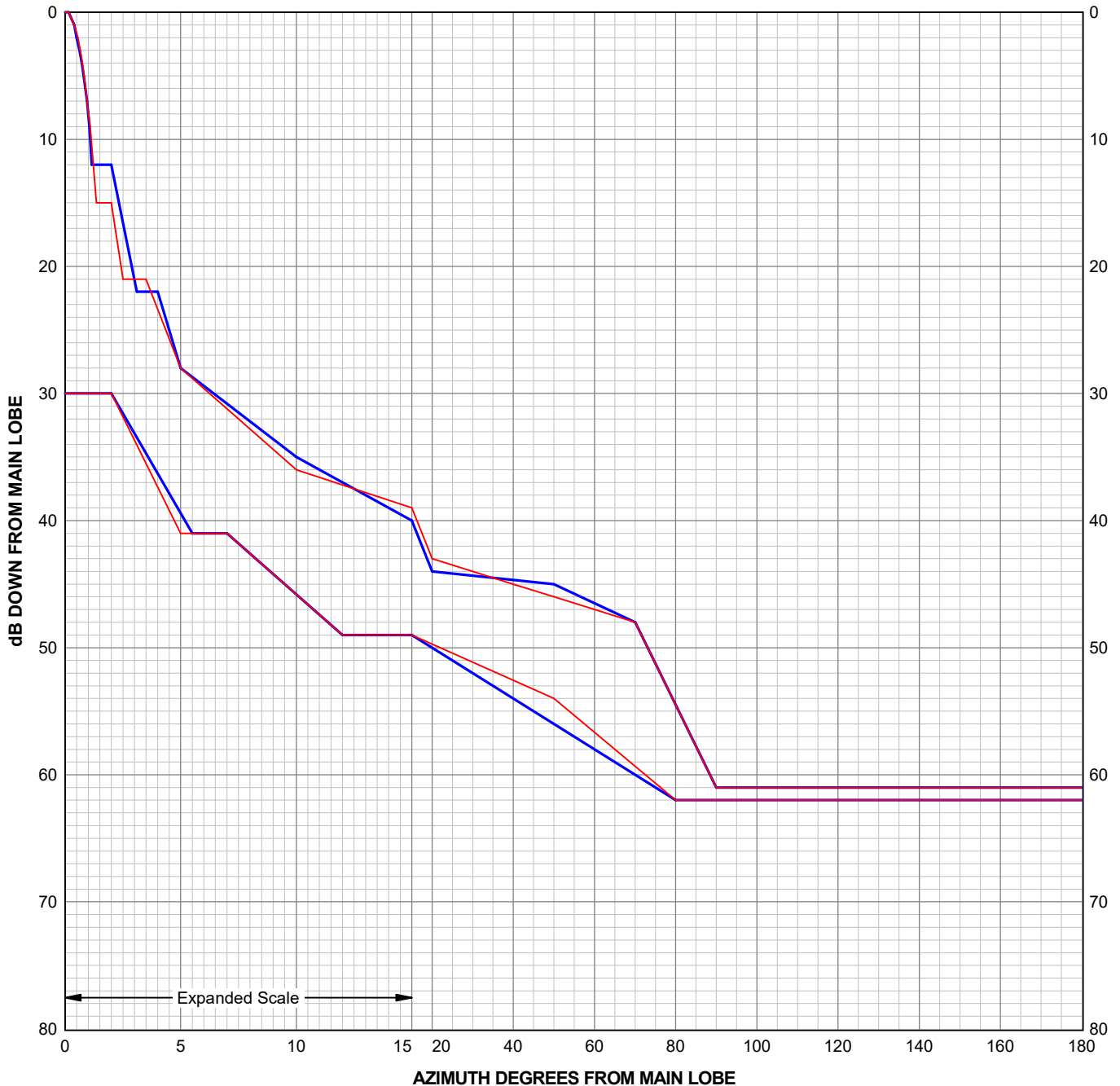
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7313A

Engineering Approved:  
14 July 2022

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
0.15	0.00	2.00	-30.00	0.15	0.00	2.00	-30.00
0.40	-1.00	5.50	-41.00	0.40	-1.00	5.00	-41.00
0.50	-2.00	7.00	-41.00	0.55	-2.00	7.00	-41.00
0.62	-3.00	12.00	-49.00	0.65	-3.00	12.00	-49.00
0.72	-4.00	15.00	-49.00	0.75	-4.00	15.00	-49.00
0.80	-5.00	80.00	-62.00	0.82	-5.00	50.00	-54.00
0.95	-7.00	180.00	-62.00	0.95	-7.00	80.00	-62.00
1.05	-9.00			1.08	-9.00	180.00	-62.00
1.15	-12.00			1.35	-15.00		
2.00	-12.00			2.00	-15.00		
3.10	-22.00			2.50	-21.00		
4.00	-22.00			3.50	-21.00		
5.00	-28.00			5.00	-28.00		
10.00	-35.00			10.00	-36.00		
15.00	-40.00			15.00	-39.00		
20.00	-44.00			20.00	-43.00		
50.00	-45.00			40.00	-45.00		
70.00	-48.00			50.00	-46.00		
90.00	-61.00			70.00	-48.00		
180.00	-61.00			90.00	-61.00		
				180.00	-61.00		

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