

RADIATION PATTERN ENVELOPE

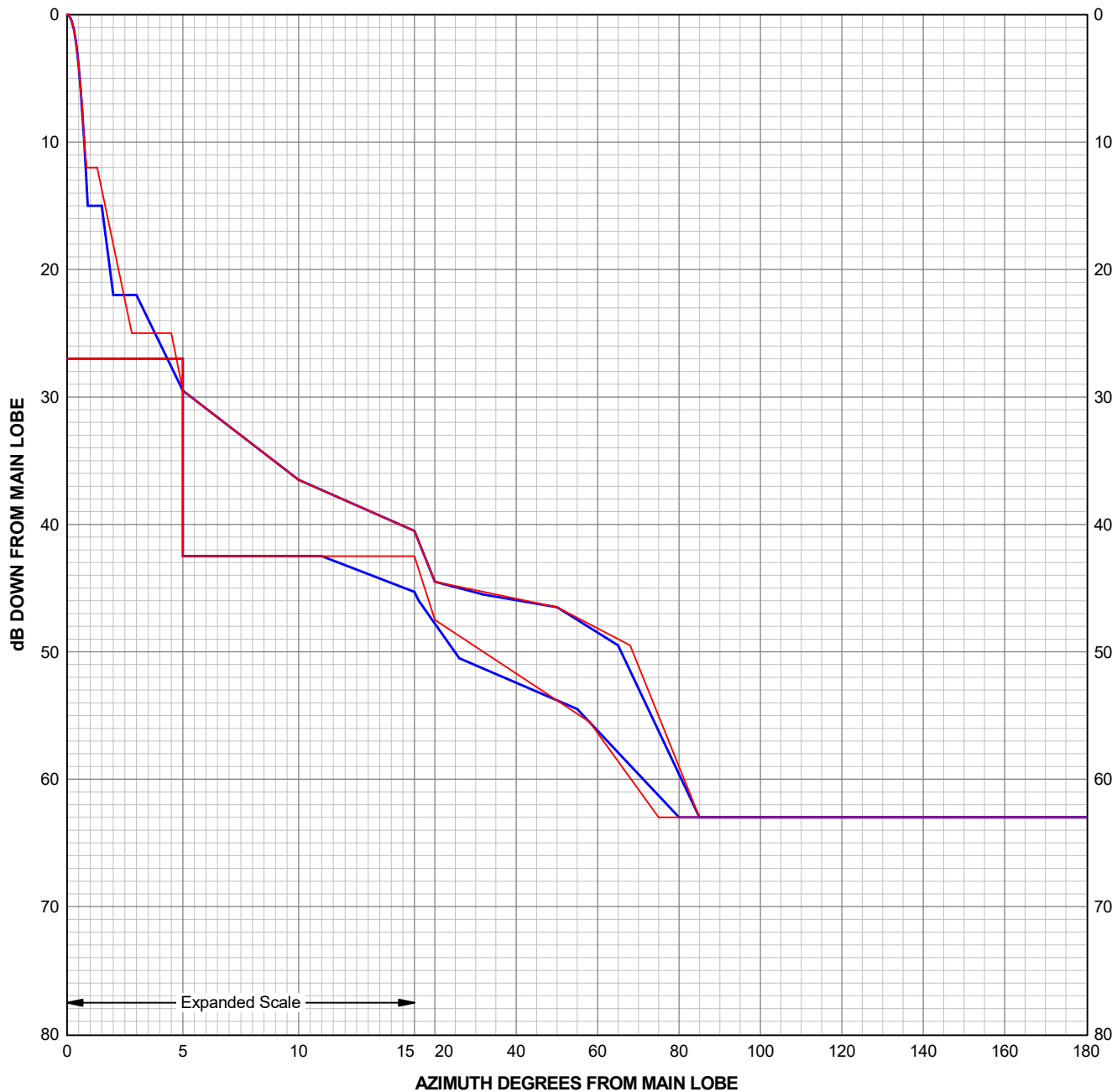
Antenna Type Number: VHLP1-80
1.00 Foot Antenna 71.000-86.000 GHz Single Polarized
Gain: 45.00 dBi at 78.500 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7287B

Engineering Approved:
18 December 2024



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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	-27.00	0.00	0.00	0.00	-27.00
0.05	0.00	5.00	-27.00	0.05	0.00	5.00	-27.00
0.10	-0.10	5.00	-42.50	0.10	-0.10	5.00	-42.50
0.15	-0.30	11.00	-42.50	0.15	-0.30	15.00	-42.50
0.20	-0.50	16.00	-46.00	0.20	-0.50	20.00	-47.50
0.25	-0.80	26.00	-50.50	0.25	-0.80	58.00	-55.50
0.29	-1.10	55.00	-54.50	0.29	-1.10	75.00	-63.00
0.37	-2.00	80.00	-63.00	0.37	-2.00	180.00	-63.00
0.41	-2.50	180.00	-63.00	0.41	-2.50		
0.45	-3.00			0.45	-3.00		
0.50	-4.00			0.50	-4.00		
0.55	-5.00			0.55	-5.00		
0.60	-6.00			0.60	-6.00		
0.65	-7.50			0.65	-7.00		
0.75	-10.00			0.75	-10.00		
0.90	-15.00			0.85	-12.00		
1.50	-15.00			1.30	-12.00		
2.00	-22.00			2.80	-25.00		
3.00	-22.00			4.50	-25.00		
5.00	-29.50			5.00	-29.50		
10.00	-36.50			10.00	-36.50		
20.00	-44.50			20.00	-44.50		
32.00	-45.50			50.00	-46.50		
50.00	-46.50			68.00	-49.50		
65.00	-49.50			85.00	-63.00		
85.00	-63.00			180.00	-63.00		
180.00	-63.00						

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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