

RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLPX1-28

1.00 Foot Antenna 27.500-29.500 GHz Dual Polarized

Gain: 38.10 dBi at 28.500 GHz

— Envelope for a Horizontally Polarized Antenna (HH, HV)

— Envelope for a Vertically Polarized Antenna (VV, VH)

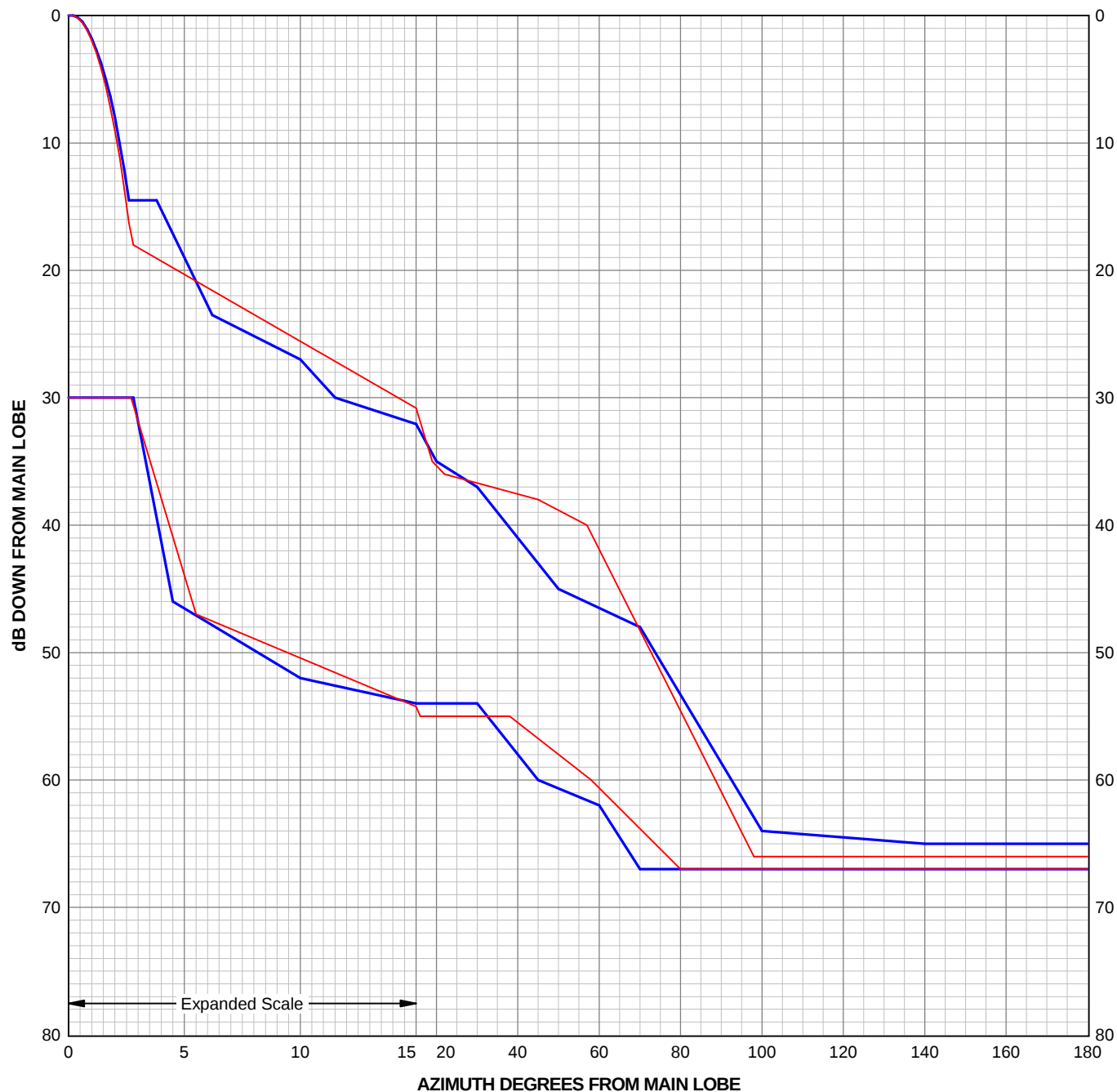
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7023C

Engineering Approved:
2 June 2025

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
0.20	0.00	2.80	-30.00	0.20	0.00	2.70	-30.00
0.40	-0.16	4.50	-46.00	0.40	-0.18	5.50	-47.00
0.60	-0.49	10.00	-52.00	0.60	-0.56	16.00	-55.00
0.80	-1.09	15.00	-54.00	0.80	-1.14	38.00	-55.00
1.00	-1.83	30.00	-54.00	1.00	-1.98	58.00	-60.00
1.20	-2.70	45.00	-60.00	1.20	-2.91	80.00	-67.00
1.40	-3.71	60.00	-62.00	1.40	-4.13	180.00	-67.00
1.60	-4.99	70.00	-67.00	1.60	-5.54		
1.80	-6.36	180.00	-67.00	1.80	-7.26		
2.00	-7.96			2.00	-9.03		
2.20	-10.01			2.20	-11.05		
2.40	-12.11			2.40	-13.61		
2.60	-14.50			2.60	-16.29		
3.80	-14.50			2.80	-18.00		
6.20	-23.50			19.00	-35.00		
10.00	-27.00			22.00	-36.00		
11.50	-30.00			45.00	-38.00		
20.00	-35.00			57.00	-40.00		
30.00	-37.00			98.00	-66.00		
50.00	-45.00			180.00	-66.00		
70.00	-48.00						
100.00	-64.00						
140.00	-65.00						
180.00	-65.00						

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