

RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLP1-18

1.00 Foot Antenna 17.700-19.700 GHz Single Polarized

Gain: 34.60 dBi at 18.700 GHz

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

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

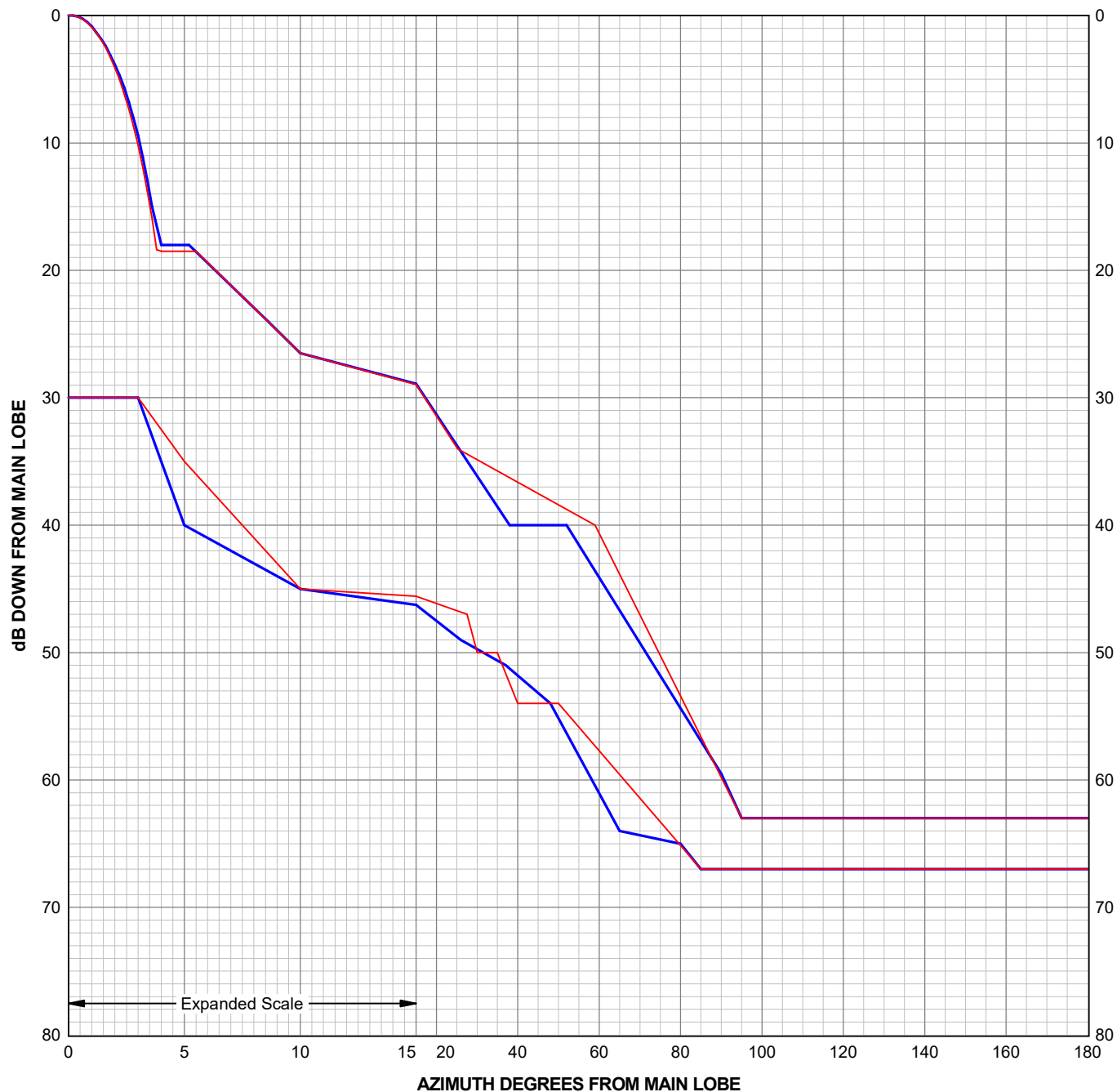
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7010G

Engineering Approved:
4 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	3.00	-30.00	0.20	0.00	3.00	-30.00
0.40	-0.08	5.00	-40.00	0.40	-0.09	5.00	-35.00
0.60	-0.25	10.00	-45.00	0.60	-0.27	10.00	-45.00
0.80	-0.52	26.00	-49.00	0.80	-0.54	27.50	-47.00
1.00	-0.87	37.00	-51.00	1.00	-0.93	30.00	-50.00
1.20	-1.34	48.00	-54.00	1.20	-1.36	35.00	-50.00
1.40	-1.83	65.00	-64.00	1.40	-1.88	40.00	-54.00
1.60	-2.40	80.00	-65.00	1.60	-2.50	50.00	-54.00
1.80	-3.13	85.00	-67.00	1.80	-3.30	85.00	-67.00
2.00	-3.86	180.00	-67.00	2.00	-4.11	180.00	-67.00
2.20	-4.69			2.20	-5.03		
2.40	-5.66			2.40	-6.18		
2.60	-6.84			2.60	-7.36		
2.80	-8.05			2.80	-8.67		
3.00	-9.41			3.00	-10.18		
3.20	-11.13			3.20	-11.93		
3.40	-12.90			3.40	-13.77		
3.60	-14.98			3.60	-15.86		
4.00	-18.00			3.80	-18.37		
5.20	-18.00			4.00	-18.50		
8.60	-24.00			5.50	-18.50		
10.00	-26.50			10.00	-26.50		
38.00	-40.00			25.20	-34.00		
52.00	-40.00			59.00	-40.00		
90.00	-59.50			95.00	-63.00		
95.00	-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