

# RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLP4-18  
4.00 Foot Antenna 17.700-19.700 GHz Single Polarized  
Gain: 44.70 dBi at 18.700 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

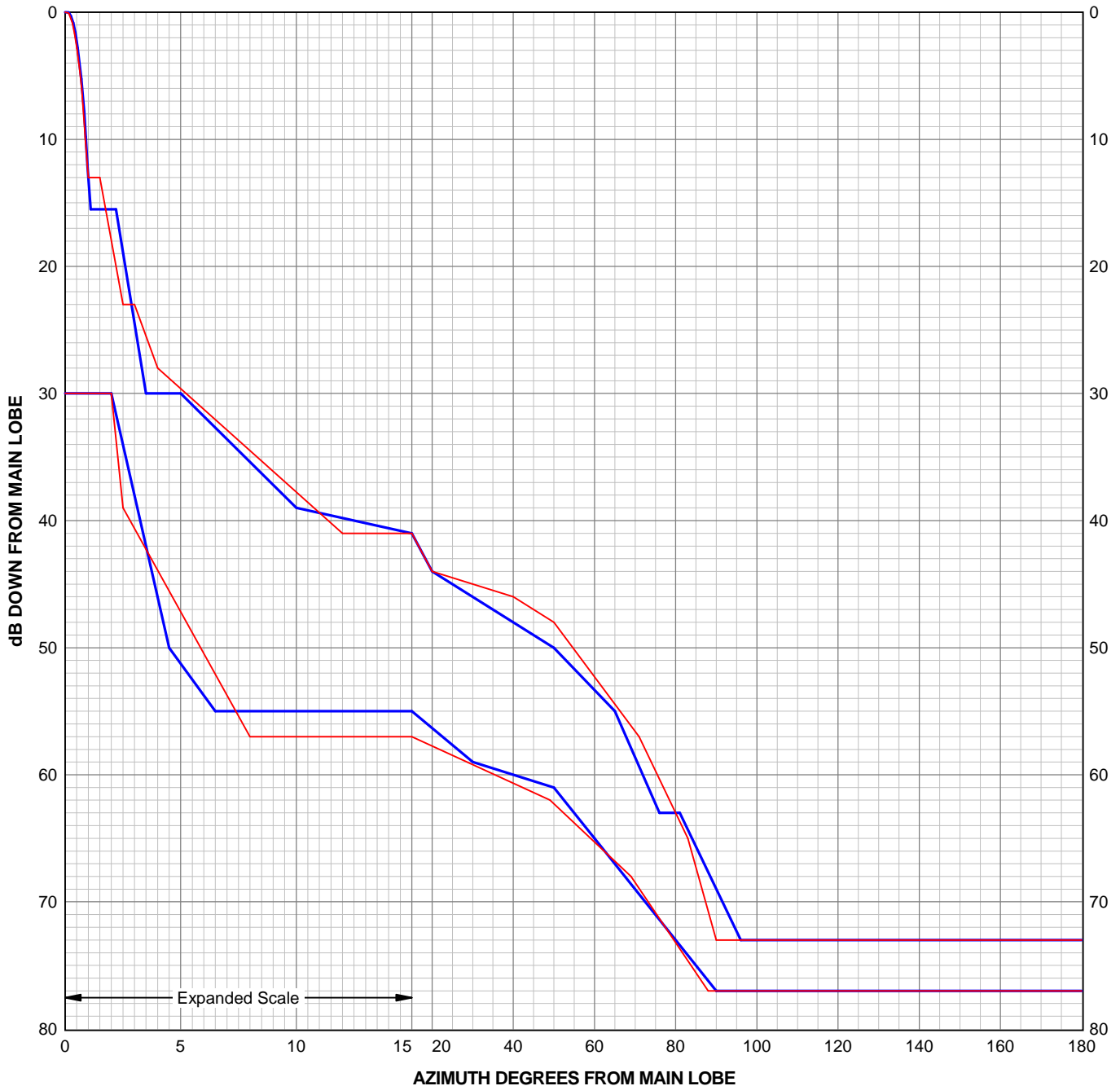
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7061C

Engineering Approved:  
26 May 2014

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
0.16	-0.03	2.00	-30.00	0.13	-0.06	2.00	-30.00
0.25	-0.30	4.50	-50.00	0.17	-0.12	2.50	-39.00
0.35	-0.85	6.50	-55.00	0.32	-0.86	8.00	-57.00
0.44	-1.60	15.00	-55.00	0.41	-1.69	15.00	-57.00
0.54	-2.84	30.00	-59.00	0.51	-2.84	49.00	-62.00
0.70	-5.25	50.00	-61.00	0.63	-4.60	69.00	-68.00
0.82	-7.82	60.00	-65.00	0.72	-6.11	88.00	-77.00
0.89	-9.80	90.00	-77.00	0.77	-7.28	180.00	-77.00
0.97	-12.20	180.00	-77.00	0.85	-9.26		
1.10	-15.50			0.87	-9.93		
2.20	-15.50			1.00	-13.00		
3.50	-30.00			1.50	-13.00		
5.00	-30.00			2.50	-23.00		
10.00	-39.00			3.00	-23.00		
15.00	-41.00			4.00	-28.00		
20.00	-44.00			12.00	-41.00		
50.00	-50.00			15.00	-41.00		
65.00	-55.00			20.00	-44.00		
76.00	-63.00			40.00	-46.00		
81.00	-63.00			50.00	-48.00		
96.00	-73.00			71.00	-57.00		
180.00	-73.00			83.00	-65.00		
				90.00	-73.00		
				180.00	-73.00		

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