

RADIATION PATTERN ENVELOPE

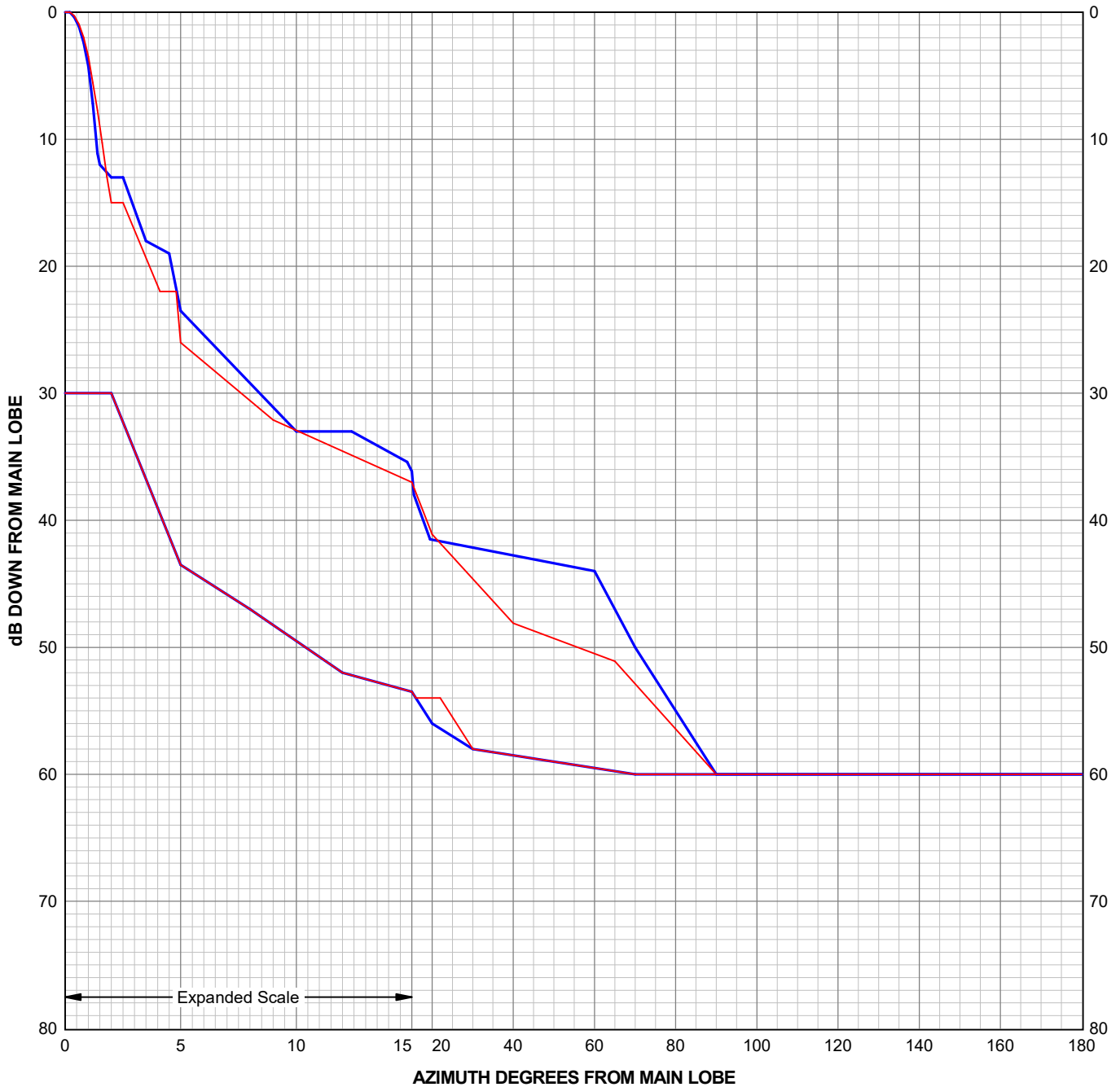
Antenna Type Number: VHLP1-42
1.00 Foot Antenna 40.500-43.500 GHz Single Polarized
Gain: 40.80 dBi at 42.000 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7239E

Engineering Approved:
23 May 2024

ANDREW CORPORATION



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 RPE: 7239E
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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	2.00	-30.00	0.20	0.00	2.00	-30.00
0.40	-0.38	5.00	-43.50	0.40	-0.29	5.00	-43.50
0.60	-1.13	8.00	-47.00	0.60	-0.94	8.00	-47.00
0.80	-2.41	12.00	-52.00	0.80	-1.98	12.00	-52.00
1.00	-4.27	20.00	-56.00	1.00	-3.48	16.00	-54.00
1.20	-7.18	30.00	-58.00	1.20	-5.53	22.00	-54.00
1.40	-11.12	70.00	-60.00	1.40	-7.74	30.00	-58.00
1.50	-12.00	180.00	-60.00	1.60	-10.27	70.00	-60.00
2.00	-13.00			1.80	-12.95	180.00	-60.00
2.50	-13.00			2.00	-15.00		
3.50	-18.00			2.50	-15.00		
4.50	-19.00			4.10	-22.00		
5.00	-23.50			4.80	-22.00		
10.00	-33.00			5.00	-26.00		
12.40	-33.00			9.00	-32.10		
14.80	-35.40			20.00	-41.10		
15.50	-38.00			40.00	-48.10		
19.50	-41.50			65.00	-51.10		
60.00	-44.00			90.00	-60.00		
70.00	-50.00			180.00	-60.00		
90.00	-60.00						
180.00	-60.00						

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