

# RADIATION PATTERN ENVELOPE

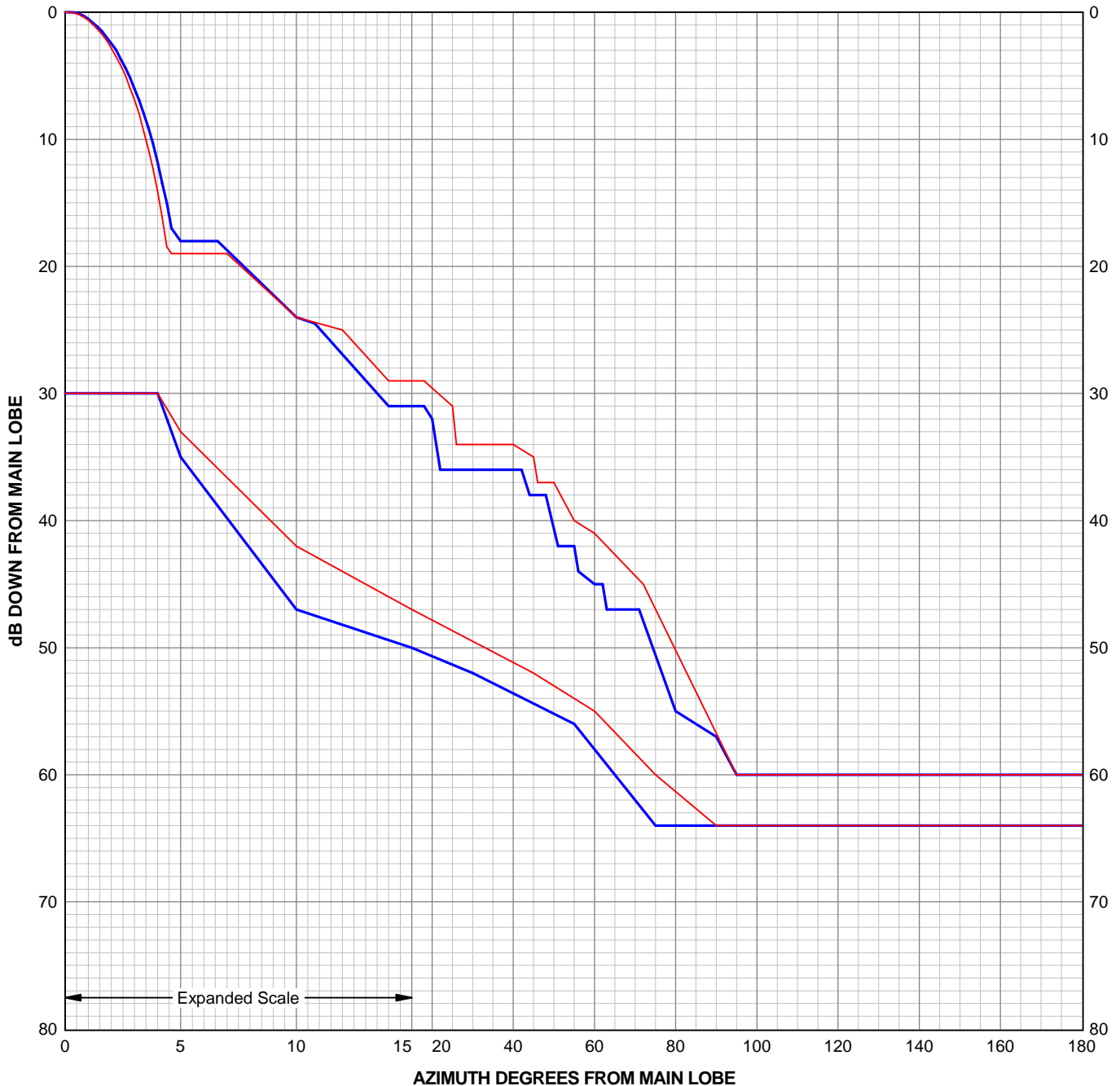
Antenna Type Number: VHLP1-15  
1.00 Foot Antenna 14.400-15.350 GHz Single Polarized  
Gain: 32.70 dBi at 14.875 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7006C

Engineering Approved:  
25 May 2016

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	4.00	-30.00	0.20	0.00	4.00	-30.00
0.40	-0.03	5.00	-35.00	0.40	-0.07	5.00	-33.00
0.60	-0.13	10.00	-47.00	0.60	-0.19	10.00	-42.00
0.80	-0.28	15.00	-50.00	0.80	-0.38	15.00	-47.00
1.00	-0.53	30.00	-52.00	1.00	-0.63	45.00	-52.00
1.20	-0.84	55.00	-56.00	1.20	-0.96	60.00	-55.00
1.40	-1.15	75.00	-64.00	1.40	-1.33	75.00	-60.00
1.60	-1.52	180.00	-64.00	1.60	-1.75	90.00	-64.00
1.80	-2.00			1.80	-2.23	180.00	-64.00
2.00	-2.47			2.00	-2.84		
2.20	-2.96			2.20	-3.48		
2.40	-3.69			2.40	-4.18		
2.60	-4.36			2.60	-4.96		
2.80	-5.10			2.80	-5.93		
3.00	-6.03			3.00	-6.90		
3.20	-6.94			3.20	-8.01		
3.40	-7.96			3.40	-9.36		
3.60	-9.06			3.60	-10.75		
3.80	-10.34			3.80	-12.30		
4.00	-11.84			4.00	-14.15		
4.20	-13.44			4.20	-16.13		
4.40	-15.00			4.40	-18.47		
4.60	-17.00			4.60	-19.00		
5.00	-18.00			5.00	-19.00		
6.60	-18.00			7.00	-19.00		
10.00	-24.00			10.00	-24.00		
10.80	-24.50			12.00	-25.00		
14.00	-31.00			14.00	-29.00		
18.00	-31.00			18.00	-29.00		
20.00	-32.00			25.00	-31.00		
22.00	-36.00			26.00	-34.00		
42.00	-36.00			40.00	-34.00		
44.00	-38.00			45.00	-35.00		
48.00	-38.00			46.00	-37.00		
51.00	-42.00			50.00	-37.00		
55.00	-42.00			55.00	-40.00		
56.00	-44.00			60.00	-41.00		
60.00	-45.00			72.00	-45.00		
62.00	-45.00			95.00	-60.00		
63.00	-47.00			180.00	-60.00		
71.00	-47.00						
80.00	-55.00						
90.00	-57.00						
95.00	-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