

# RADIATION PATTERN ENVELOPE

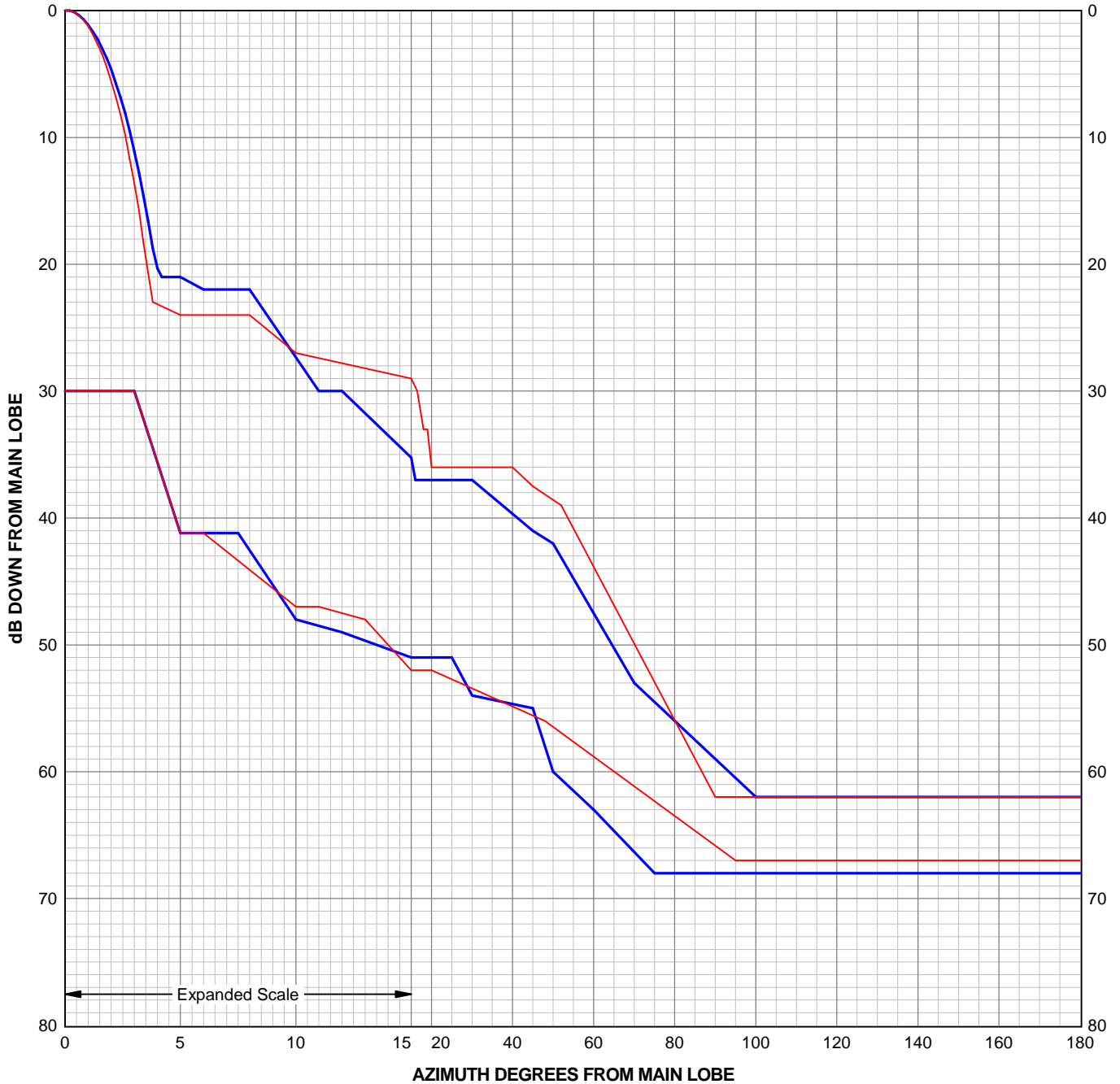
Antenna Type Number: VHLP1-23  
1.00 Foot Antenna 21.200-23.600 GHz Single Polarized  
Gain: 35.60 dBi at 22.400 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7014C

Engineering Approved:  
25 May 2016

ANDREW CORPORATION



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 Gain: 35.60 dBi at 22.400 GHz  
 RPE: 7014C  
 Engineering Approved: 25 May 2016



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	-0.13	5.00	-41.20	0.40	-0.12	5.00	-41.20
0.60	-0.37	7.50	-41.20	0.60	-0.38	6.00	-41.20
0.80	-0.70	10.00	-48.00	0.80	-0.75	10.00	-47.00
1.00	-1.14	12.00	-49.00	1.00	-1.24	11.00	-47.00
1.20	-1.64	15.00	-51.00	1.20	-1.87	13.00	-48.00
1.40	-2.22	25.00	-51.00	1.40	-2.62	15.00	-52.00
1.60	-2.97	30.00	-54.00	1.60	-3.43	20.00	-52.00
1.80	-3.75	45.00	-55.00	1.80	-4.46	48.00	-56.00
2.00	-4.62	50.00	-60.00	2.00	-5.58	95.00	-67.00
2.20	-5.75	60.00	-63.00	2.20	-6.81	180.00	-67.00
2.40	-6.85	75.00	-68.00	2.40	-8.21		
2.60	-8.09	180.00	-68.00	2.60	-9.79		
2.80	-9.47			2.80	-11.69		
3.00	-11.09			3.00	-13.60		
3.20	-12.77			3.20	-15.76		
3.40	-14.58			3.40	-18.27		
3.60	-16.57			3.60	-20.66		
3.80	-18.75			3.80	-22.98		
4.00	-20.33			5.00	-24.00		
4.20	-21.00			8.00	-24.00		
5.00	-21.00			10.00	-27.00		
6.00	-22.00			15.00	-29.00		
8.00	-22.00			16.50	-30.00		
11.00	-30.00			18.00	-33.00		
12.00	-30.00			19.00	-33.00		
16.00	-37.00			20.00	-36.00		
30.00	-37.00			40.00	-36.00		
45.00	-41.00			45.00	-37.50		
50.00	-42.00			52.00	-39.00		
70.00	-53.00			90.00	-62.00		
100.00	-62.00			180.00	-62.00		
180.00	-62.00						

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