

# RADIATION PATTERN ENVELOPE

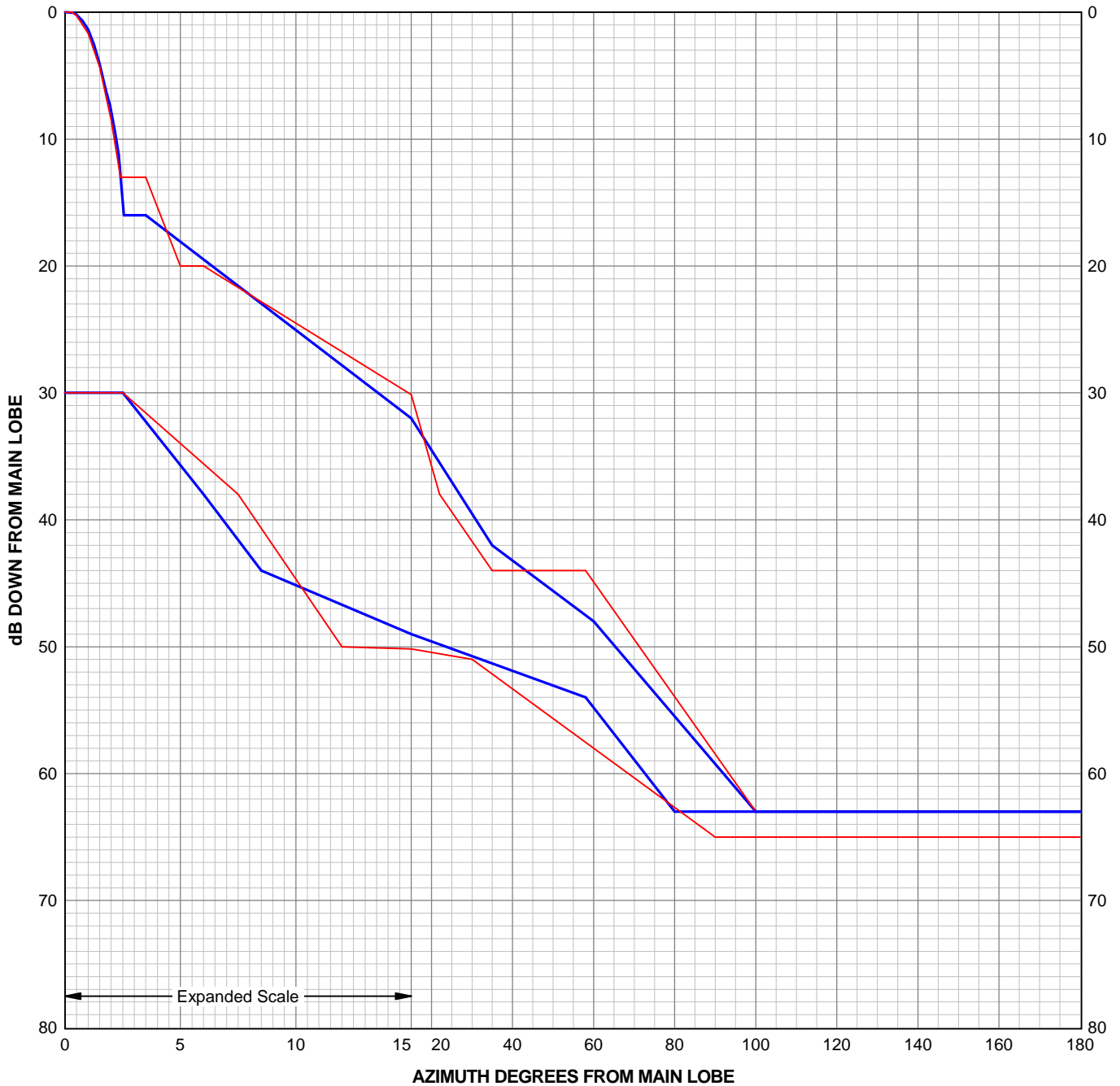
Antenna Type Number: VHLP4-7W  
4.00 Foot Antenna 7.125-8.500 GHz Single Polarized  
Gain: 37.40 dBi at 7.813 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7079E

Engineering Approved:  
26 May 2014

ANDREW CORPORATION



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 RPE: 7079E  
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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
0.36	-0.05	2.50	-30.00	0.30	0.00	2.50	-30.00
0.50	-0.20	6.00	-38.00	0.50	-0.27	7.50	-38.00
0.75	-0.66	8.50	-44.00	1.00	-1.69	12.00	-50.00
1.00	-1.37	15.00	-49.00	1.50	-4.33	30.00	-51.00
1.25	-2.54	58.00	-54.00	2.00	-8.50	90.00	-65.00
1.50	-4.11	80.00	-63.00	2.40	-13.00	180.00	-65.00
1.76	-6.09	180.00	-63.00	3.50	-13.00		
1.95	-7.36			5.00	-20.00		
2.17	-9.44			6.00	-20.00		
2.32	-11.22			22.00	-38.00		
2.55	-16.00			35.00	-44.00		
3.50	-16.00			58.00	-44.00		
15.00	-32.00			100.00	-63.00		
35.00	-42.00			180.00	-63.00		
60.00	-48.00						
100.00	-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