

# RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLPX3-7W  
3.00 Foot Antenna 7.100-8.500 GHz Dual Polarized  
Gain: 35.30 dBi at 7.800 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

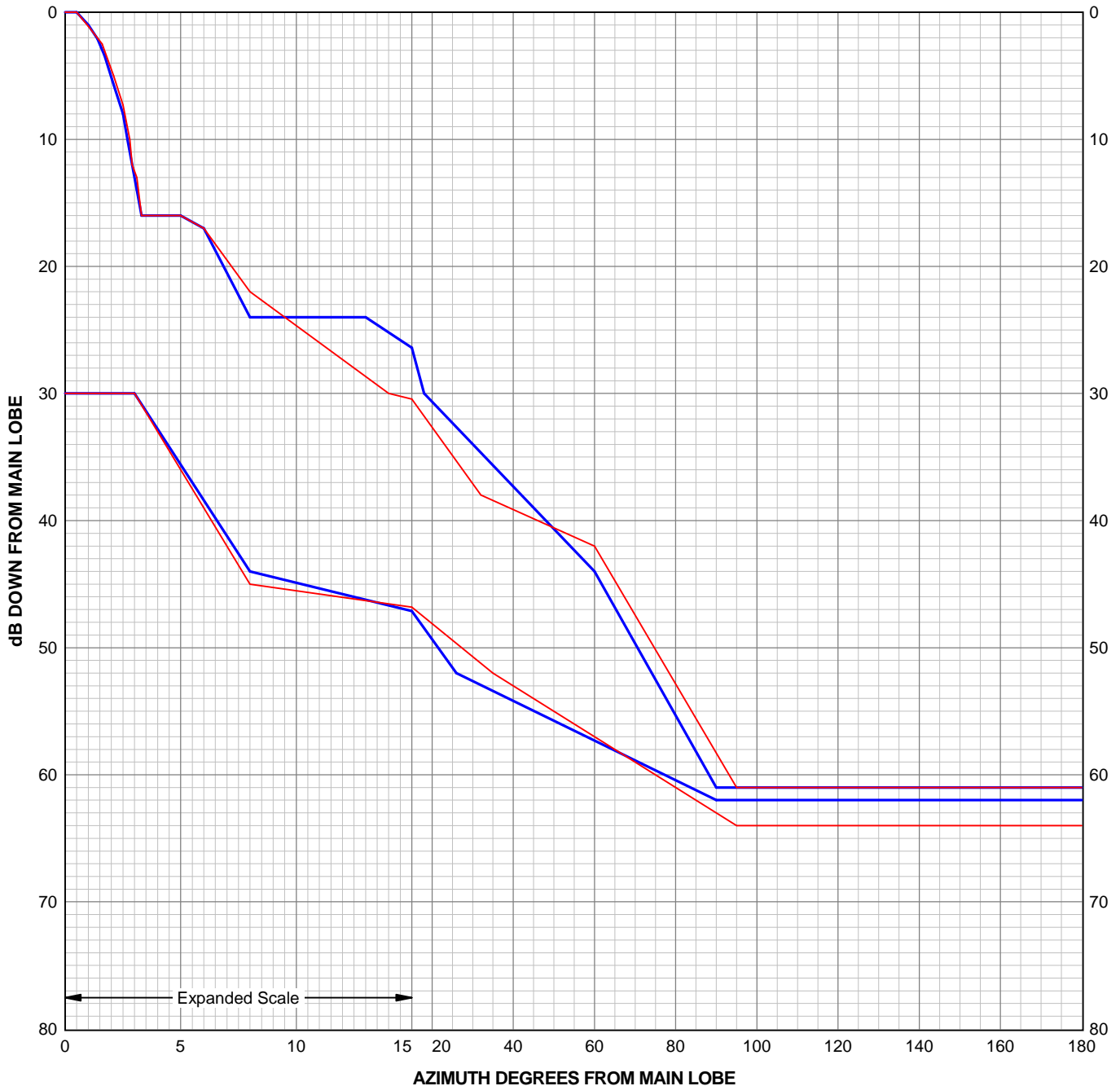
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7168A

Engineering Approved:  
21 May 2015

ANDREW CORPORATION



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 Gain: 35.30 dBi at 7.800 GHz  
 RPE: 7168A  
 Engineering Approved: 21 May 2015



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
0.50	0.00	3.00	-30.00	0.50	0.00	3.00	-30.00
1.00	-1.00	8.00	-44.00	1.00	-1.10	8.00	-45.00
1.40	-2.10	26.00	-52.00	1.60	-2.50	35.00	-52.00
1.70	-3.40	90.00	-62.00	2.10	-5.00	95.00	-64.00
2.10	-5.70	180.00	-62.00	2.50	-7.30	180.00	-64.00
2.50	-8.00			2.80	-10.00		
2.70	-10.00			2.90	-12.00		
3.10	-14.00			3.10	-13.00		
3.30	-16.00			3.30	-16.00		
5.00	-16.00			5.00	-16.00		
6.00	-17.00			6.00	-17.00		
8.00	-24.00			8.00	-22.00		
13.00	-24.00			14.00	-30.00		
18.00	-30.00			32.00	-38.00		
60.00	-44.00			60.00	-42.00		
90.00	-61.00			95.00	-61.00		
180.00	-61.00			180.00	-61.00		

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