

### RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLP1-80  
1.00 Foot Antenna 71.000-86.000 GHz Single Polarized  
Gain: 43.50 dBi at 78.500 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

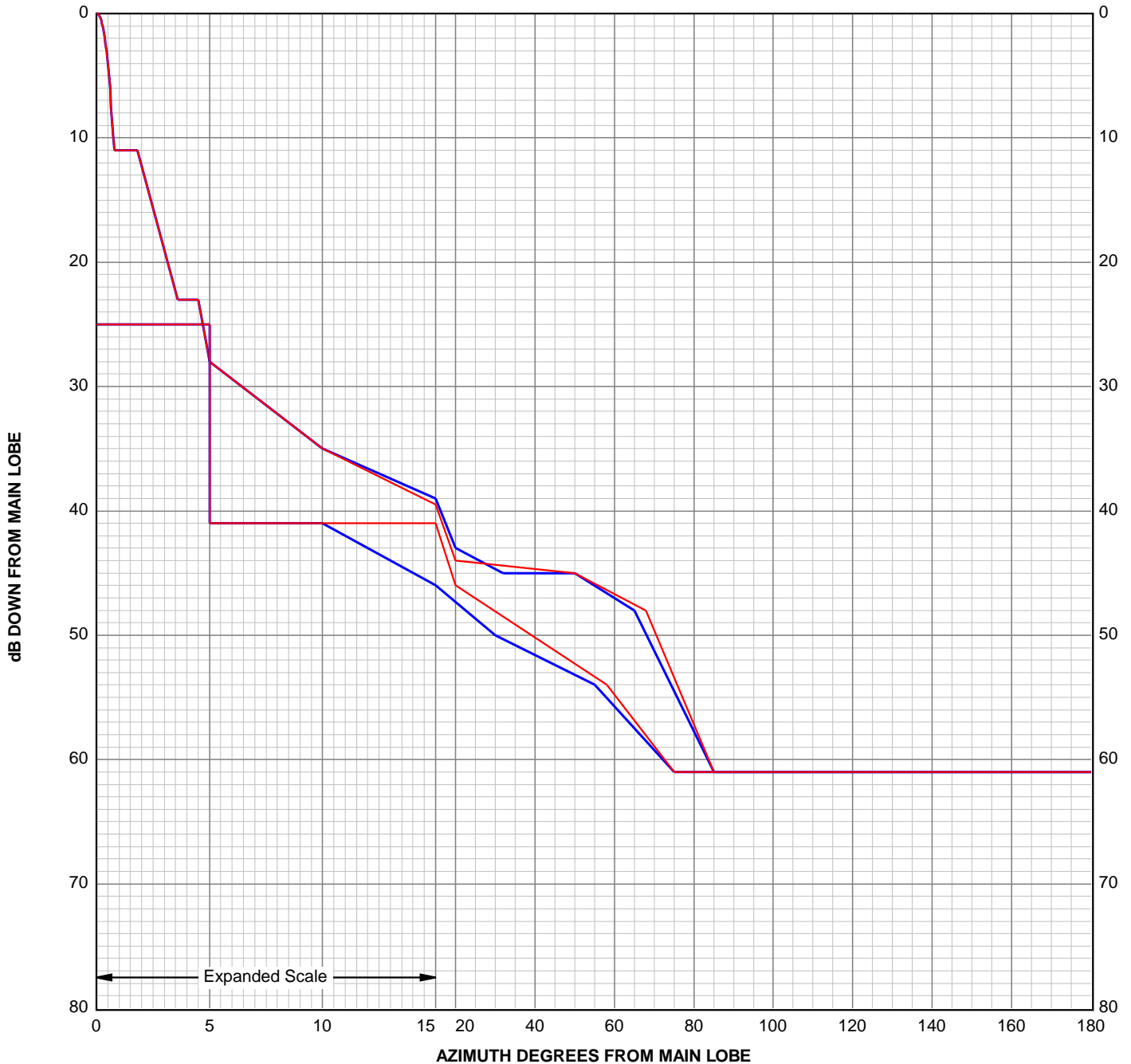
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7287A

Engineering Approved:  
1 February 2013



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 RPE: 7287A  
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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	-25.00	0.00	0.00	0.00	-25.00
0.05	0.00	5.00	-25.00	0.05	0.00	5.00	-25.00
0.10	-0.10	5.00	-41.00	0.10	-0.10	5.00	-41.00
0.15	-0.30	10.00	-41.00	0.15	-0.30	15.00	-41.00
0.20	-0.50	15.00	-46.00	0.20	-0.50	20.00	-46.00
0.25	-0.80	30.00	-50.00	0.25	-0.80	58.00	-54.00
0.29	-1.10	55.00	-54.00	0.29	-1.10	75.00	-61.00
0.37	-2.00	75.00	-61.00	0.37	-2.00	180.00	-61.00
0.41	-2.50	180.00	-61.00	0.41	-2.50		
0.45	-3.00			0.45	-3.00		
0.50	-4.00			0.50	-4.00		
0.55	-5.00			0.55	-5.00		
0.60	-6.00			0.60	-6.00		
0.65	-7.50			0.65	-7.50		
0.75	-10.00			0.75	-10.00		
0.80	-11.00			0.80	-11.00		
1.80	-11.00			1.80	-11.00		
3.60	-23.00			3.60	-23.00		
4.50	-23.00			4.50	-23.00		
5.00	-28.00			5.00	-28.00		
10.00	-35.00			10.00	-35.00		
20.00	-43.00			20.00	-44.00		
32.00	-45.00			50.00	-45.00		
50.00	-45.00			68.00	-48.00		
65.00	-48.00			85.00	-61.00		
85.00	-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