

### RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLP2-(X)80(X)23  
2.00 Foot Antenna 21.200-23.600 GHz Dual Polarized  
Gain: 39.40 dBi at 22.400 GHz

- Envelope for a Horizontally Polarized Antenna (HH, HV)
- Envelope for a Vertically Polarized Antenna (VV, VH)

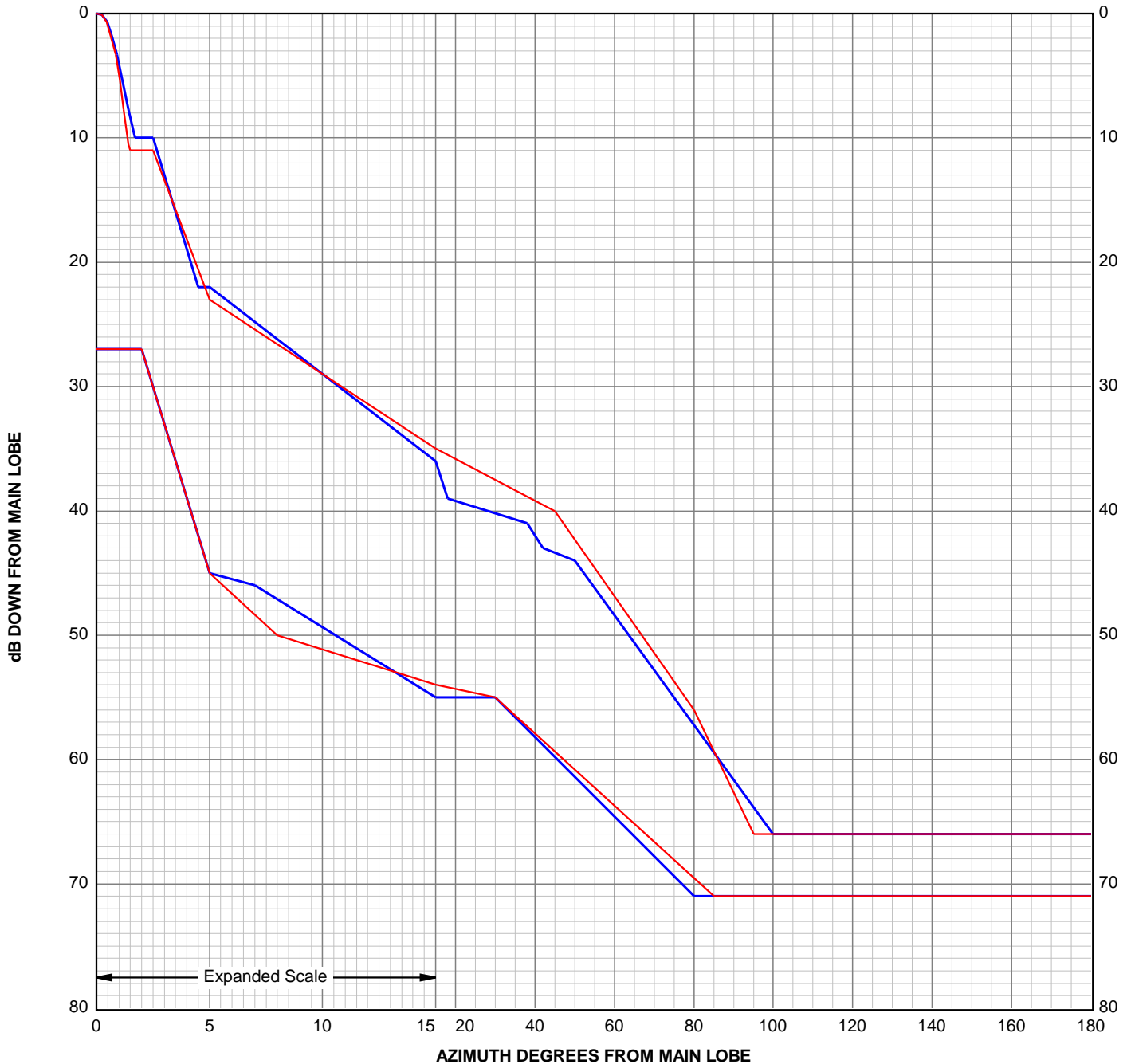
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7441

Engineering Approved:  
27 November 2019



Antenna Type Number: VHLP2-(X)80(X)23  
 2.00 Foot Antenna 21.200-23.600 GHz Dual Polarized  
 Gain: 39.40 dBi at 22.400 GHz  
 RPE: 7441  
 Engineering Approved: 27 November 2019



Angle	H/H dB	Angle	H/V dB	Angle	V/V dB	Angle	V/H dB
0.00	0.00	0.00	-27.00	0.00	0.00	0.00	-27.00
0.25	-0.10	2.00	-27.00	0.25	-0.10	2.00	-27.00
0.48	-0.70	5.00	-45.00	0.45	-0.70	5.00	-45.00
0.70	-1.90	7.00	-46.00	0.65	-1.90	8.00	-50.00
0.90	-3.30	15.00	-55.00	0.85	-3.30	15.00	-54.00
1.15	-5.40	30.00	-55.00	1.05	-5.40	30.00	-55.00
1.40	-7.70	80.00	-71.00	1.20	-7.70	85.00	-71.00
1.70	-10.00	180.00	-71.00	1.40	-10.50	180.00	-71.00
2.50	-10.00			1.50	-11.00		
4.50	-22.00			2.50	-11.00		
5.00	-22.00			5.00	-23.00		
15.00	-36.00			15.00	-35.00		
18.00	-39.00			45.00	-40.00		
38.00	-41.00			80.00	-56.00		
42.00	-43.00			95.00	-66.00		
50.00	-44.00			180.00	-66.00		
100.00	-66.00						
180.00	-66.00						

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