

# RADIATION PATTERN ENVELOPE

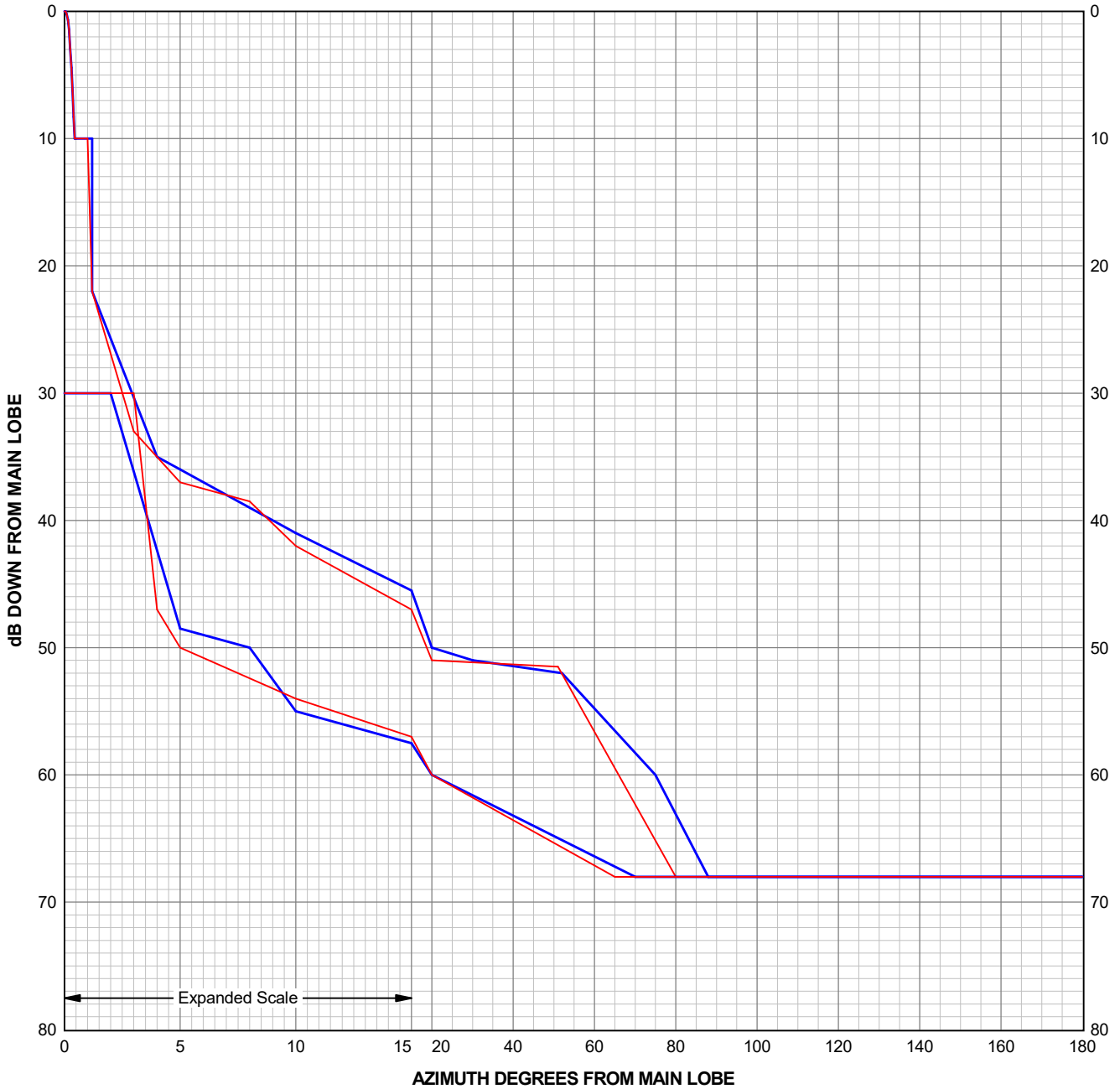
Antenna Type Number: VHLP2-(X)80(X)23  
2.00 Foot Antenna 71.000-86.000 GHz Dual Polarized  
Gain: 49.50 dBi at 78.500 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7442B

Engineering Approved:  
28 July 2023

ANDREW CORPORATION



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 RPE: 7442B  
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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
0.05	-0.01	2.00	-30.00	0.05	-0.01	3.00	-30.00
0.10	-0.22	5.00	-48.50	0.10	-0.22	4.00	-47.00
0.15	-0.67	8.00	-50.00	0.15	-0.67	5.00	-50.00
0.20	-1.43	10.00	-55.00	0.20	-1.43	10.00	-54.00
0.25	-2.92	20.00	-60.00	0.25	-2.92	20.00	-60.00
0.30	-4.43	70.00	-68.00	0.30	-4.43	65.00	-68.00
0.35	-6.24	180.00	-68.00	0.35	-6.24	180.00	-68.00
0.40	-8.29			0.40	-8.29		
0.45	-10.00			0.45	-10.00		
0.50	-10.00			0.50	-10.00		
1.20	-10.00			1.00	-10.00		
1.20	-22.00			1.20	-22.00		
4.00	-35.00			3.00	-33.00		
5.00	-36.00			5.00	-37.00		
10.00	-41.00			8.00	-38.50		
20.00	-50.00			10.00	-42.00		
30.00	-51.00			15.00	-47.00		
52.00	-52.00			20.00	-51.00		
75.00	-60.00			51.00	-51.50		
88.00	-68.00			80.00	-68.00		
180.00	-68.00			180.00	-68.00		

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

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