

# RADIATION PATTERN ENVELOPE

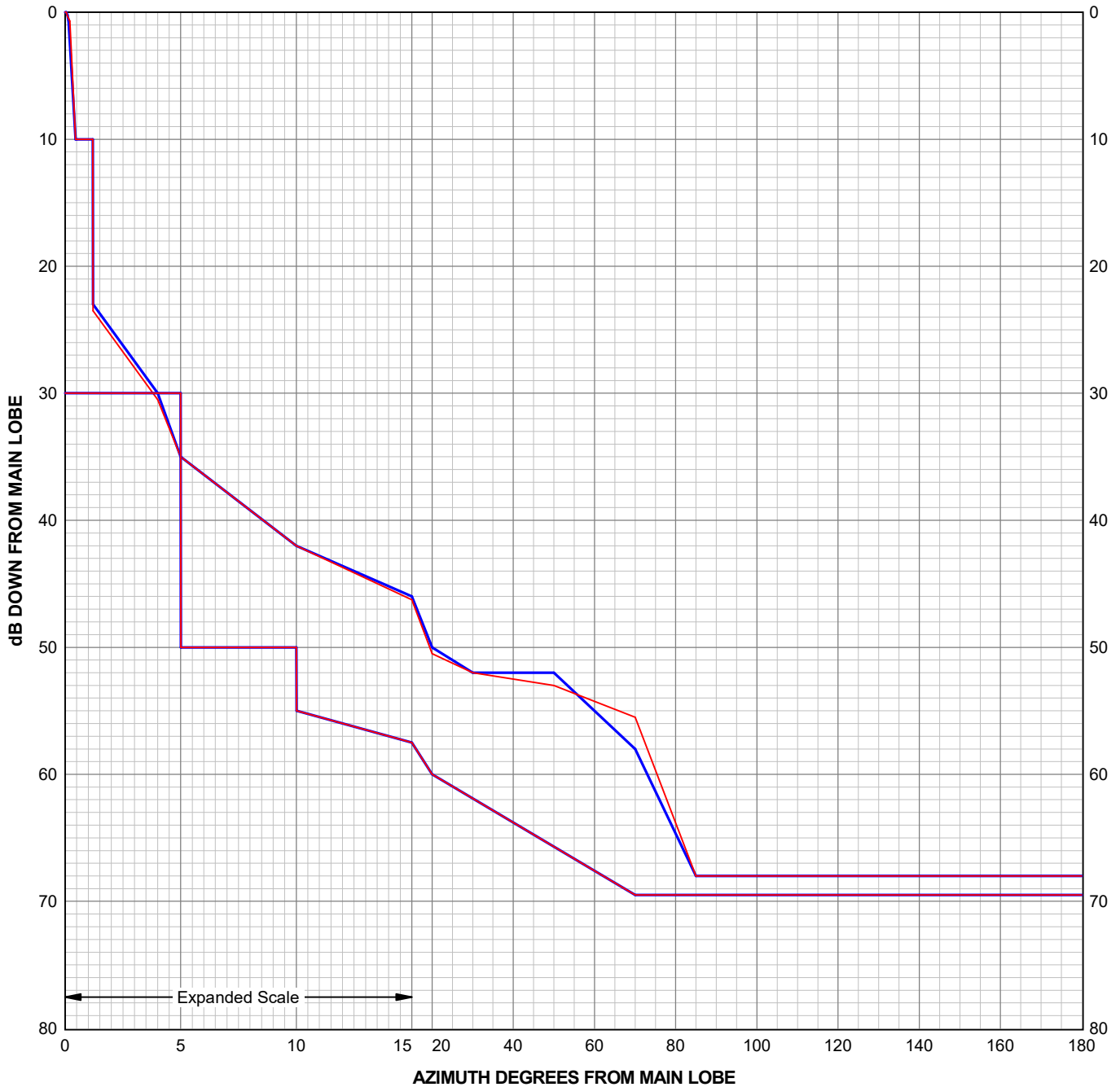
Antenna Type Number: VHLP2-(X)80(X)18  
2.00 Foot Antenna 71.000-86.000 GHz Dual Polarized  
Gain: 50.00 dBi at 78.500 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7444A

Engineering Approved:  
31 July 2023

ANDREW CORPORATION



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 Gain: 50.00 dBi at 78.500 GHz  
 RPE: 7444A  
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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	5.00	-30.00	0.05	-0.01	5.00	-30.00
0.10	-0.22	5.01	-50.00	0.10	-0.30	5.01	-50.00
0.15	-0.67	10.00	-50.00	0.20	-0.70	10.00	-50.00
0.45	-10.00	10.01	-55.00	0.45	-10.00	10.01	-55.00
0.50	-10.00	20.00	-60.00	0.50	-10.00	20.00	-60.00
1.20	-10.00	70.00	-69.50	1.20	-10.00	70.00	-69.50
1.21	-23.00	180.00	-69.50	1.21	-23.50	180.00	-69.50
4.00	-30.00			4.00	-30.50		
5.00	-35.00			5.00	-35.00		
10.00	-42.00			10.00	-42.00		
20.00	-50.00			20.00	-50.50		
30.00	-52.00			30.00	-52.00		
50.00	-52.00			50.00	-53.00		
70.00	-58.00			70.00	-55.50		
85.00	-68.00			85.00	-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