

RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLP1-80C
1.00 Foot Antenna 71.000-86.000 GHz Single Polarized
Gain: 46.00 dBi at 78.500 GHz

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

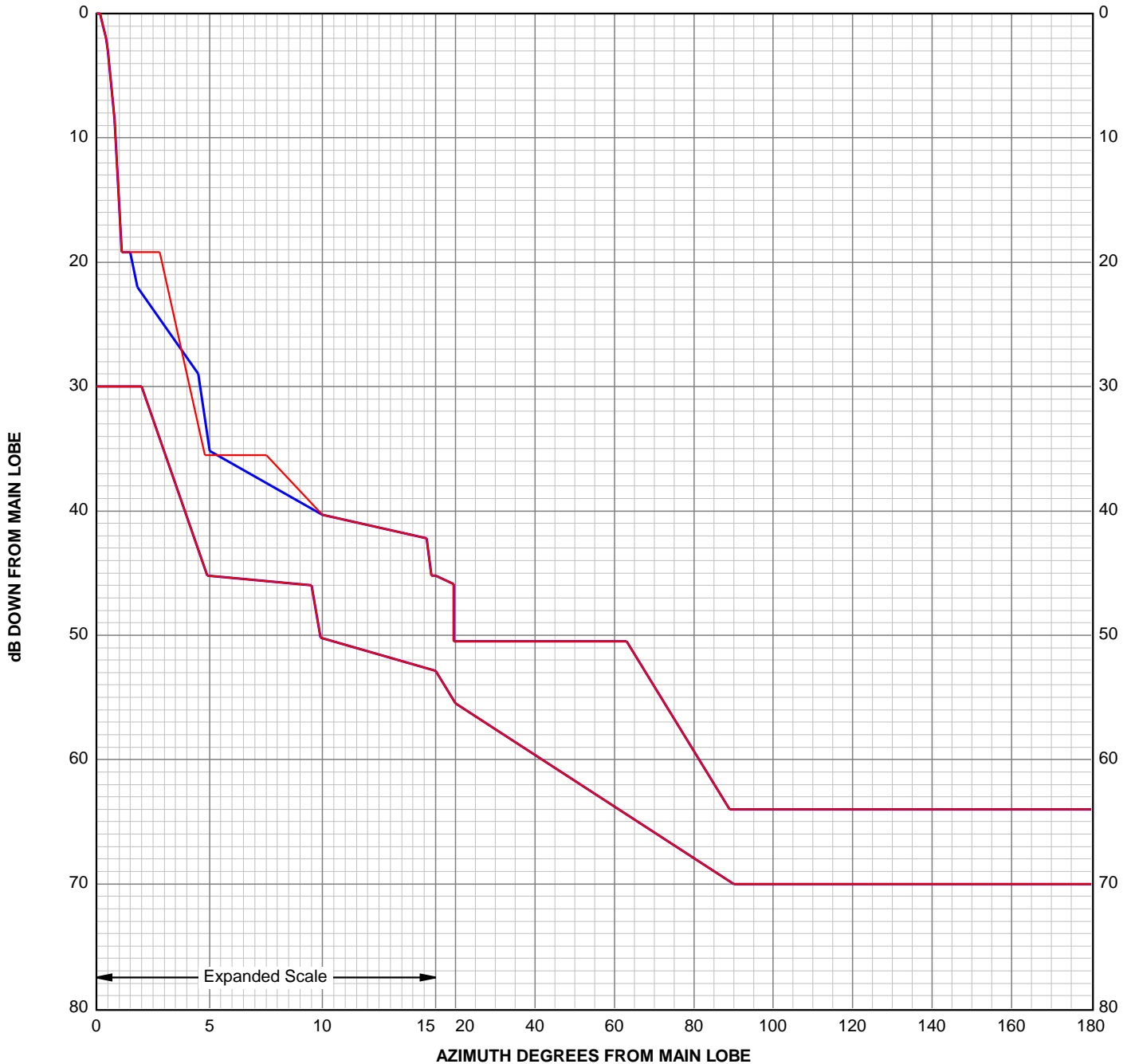
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7449

Engineering Approved:
15 December 2022



Antenna Type Number: VHLP1-80C
 1.00 Foot Antenna 71.000-86.000 GHz Single Polarized
 Gain: 46.00 dBi at 78.500 GHz
 RPE: 7449
 Engineering Approved: 15 December 2022



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
0.15	0.00	2.00	-30.00	0.15	0.00	2.00	-30.00
0.30	-1.00	4.90	-45.20	0.30	-1.00	4.90	-45.20
0.42	-2.00	9.50	-46.00	0.42	-2.00	9.50	-46.00
0.50	-3.00	9.90	-50.20	0.50	-3.00	9.90	-50.20
0.56	-4.00	20.00	-55.50	0.56	-4.00	20.00	-55.50
0.62	-5.00	90.00	-70.00	0.62	-5.00	90.00	-70.00
0.71	-7.00	180.00	-70.00	0.71	-7.00	180.00	-70.00
0.80	-8.50			0.80	-8.50		
1.12	-19.20			1.12	-19.20		
1.50	-19.20			2.80	-19.20		
1.80	-22.00			4.80	-35.50		
4.50	-29.00			7.50	-35.50		
5.00	-35.20			10.00	-40.30		
10.00	-40.30			14.60	-42.20		
14.60	-42.20			14.80	-45.20		
14.80	-45.20			19.50	-45.90		
19.50	-45.90			19.50	-50.50		
19.50	-50.50			63.00	-50.50		
63.00	-50.50			89.00	-64.00		
89.00	-64.00			180.00	-64.00		
180.00	-64.00						

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