

# RADIATION PATTERN ENVELOPE

Antenna Type Number: VHLPX3-18  
3.00 Foot Antenna 17.700-19.700 GHz Dual Polarized  
Gain: 43.50 dBi at 18.700 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

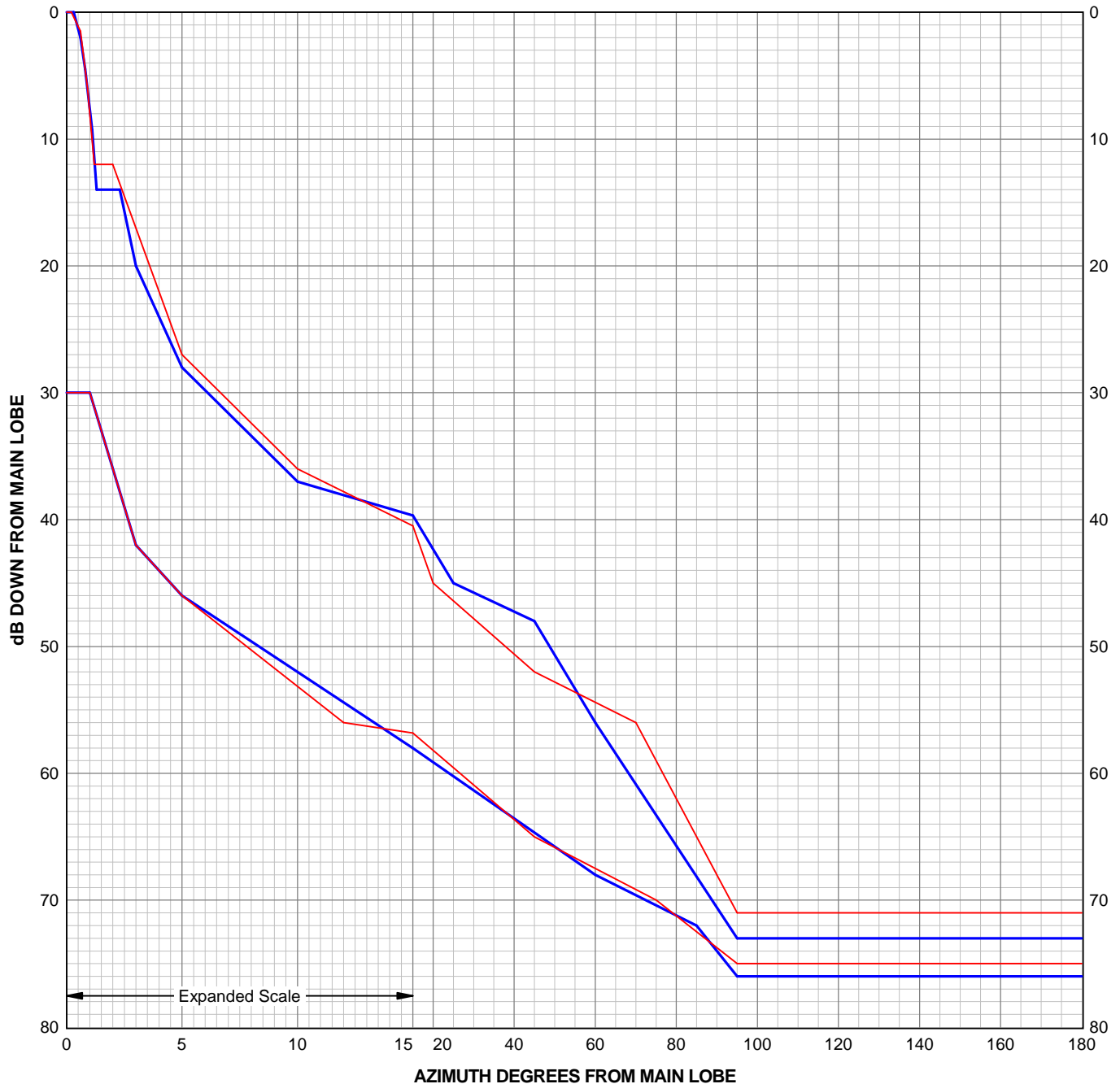
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7171A

Engineering Approved:  
29 April 2015

ANDREW CORPORATION



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 RPE: 7171A  
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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
0.30	0.00	1.00	-30.00	0.20	0.00	1.00	-30.00
0.60	-2.00	3.00	-42.00	0.60	-1.50	3.00	-42.00
0.80	-4.50	5.00	-46.00	0.90	-6.00	5.00	-46.00
1.10	-9.30	15.00	-58.00	1.20	-12.00	12.00	-56.00
1.30	-14.00	60.00	-68.00	2.00	-12.00	45.00	-65.00
2.30	-14.00	85.00	-72.00	5.00	-27.00	75.00	-70.00
3.00	-20.00	95.00	-76.00	10.00	-36.00	95.00	-75.00
5.00	-28.00	180.00	-76.00	20.00	-45.00	180.00	-75.00
10.00	-37.00			45.00	-52.00		
25.00	-45.00			70.00	-56.00		
45.00	-48.00			90.00	-68.00		
60.00	-56.00			95.00	-71.00		
95.00	-73.00			180.00	-71.00		
180.00	-73.00						

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