

# RADIATION PATTERN ENVELOPE

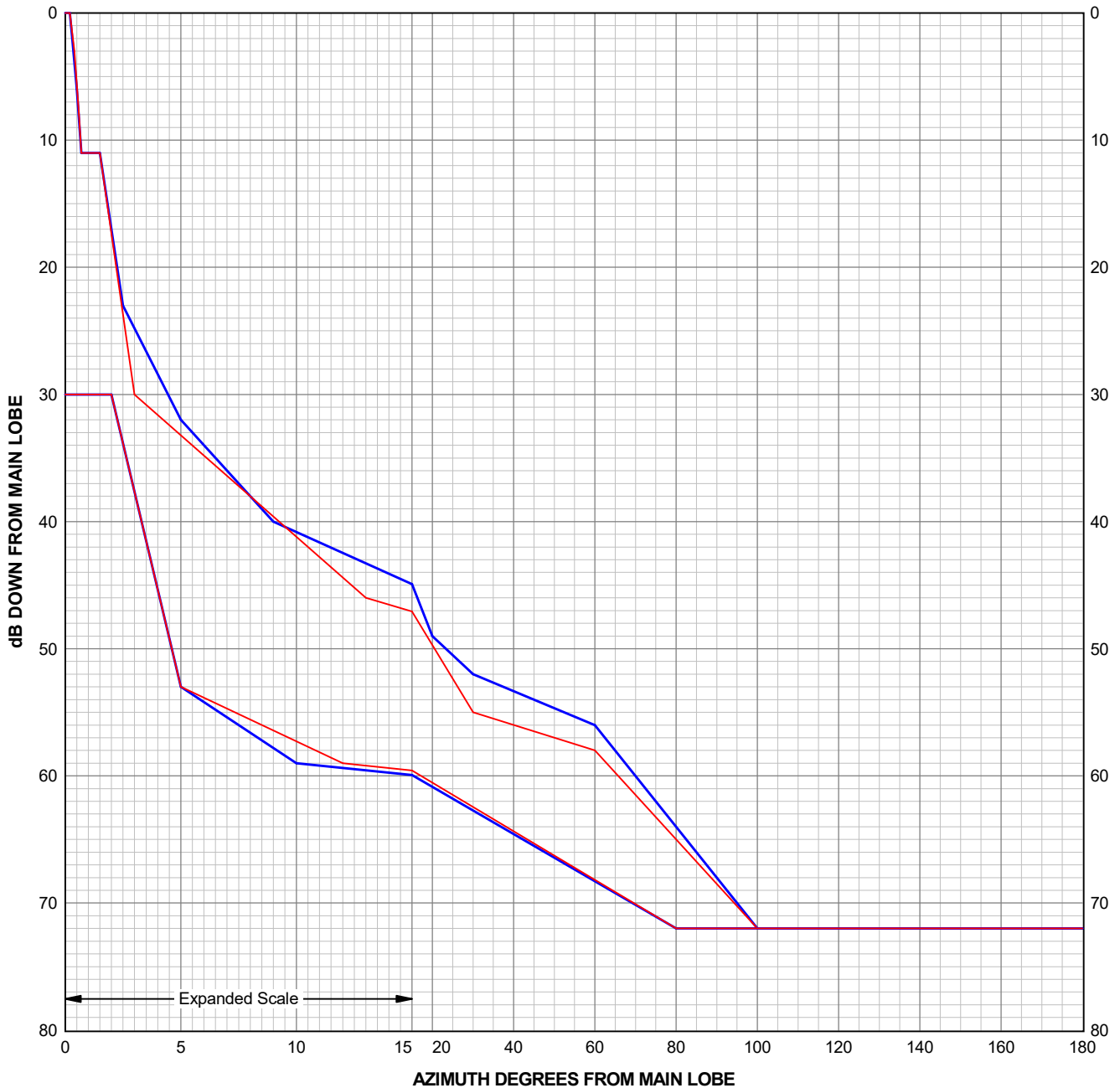
Antenna Type Number: VHLP3-32  
3.00 Foot Antenna 31.000-33.400 GHz Single Polarized  
Gain: 48.00 dBi at 32.200 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)  
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".



RPE 7160A

Engineering Approved:  
16 May 2016

ANDREW CORPORATION



Antenna Type Number: VHLP3-32  
 3.00 Foot Antenna 31.000-33.400 GHz Single Polarized  
 Gain: 48.00 dBi at 32.200 GHz  
 RPE: 7160A  
 Engineering Approved: 16 May 2016



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
0.20	0.00	2.00	-30.00	0.20	0.00	2.00	-30.00
0.30	-2.00	5.00	-53.00	0.40	-3.00	5.00	-53.00
0.50	-6.00	10.00	-59.00	0.60	-8.00	12.00	-59.00
0.70	-11.00	80.00	-72.00	0.70	-11.00	80.00	-72.00
1.50	-11.00	180.00	-72.00	1.50	-11.00	180.00	-72.00
2.50	-23.00			3.00	-30.00		
5.00	-32.00			13.00	-46.00		
9.00	-40.00			30.00	-55.00		
20.00	-49.00			60.00	-58.00		
30.00	-52.00			100.00	-72.00		
60.00	-56.00			180.00	-72.00		
100.00	-72.00						
180.00	-72.00						

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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