

### RADIATION PATTERN ENVELOPE

Antenna Type Number: SHPX3-18  
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)

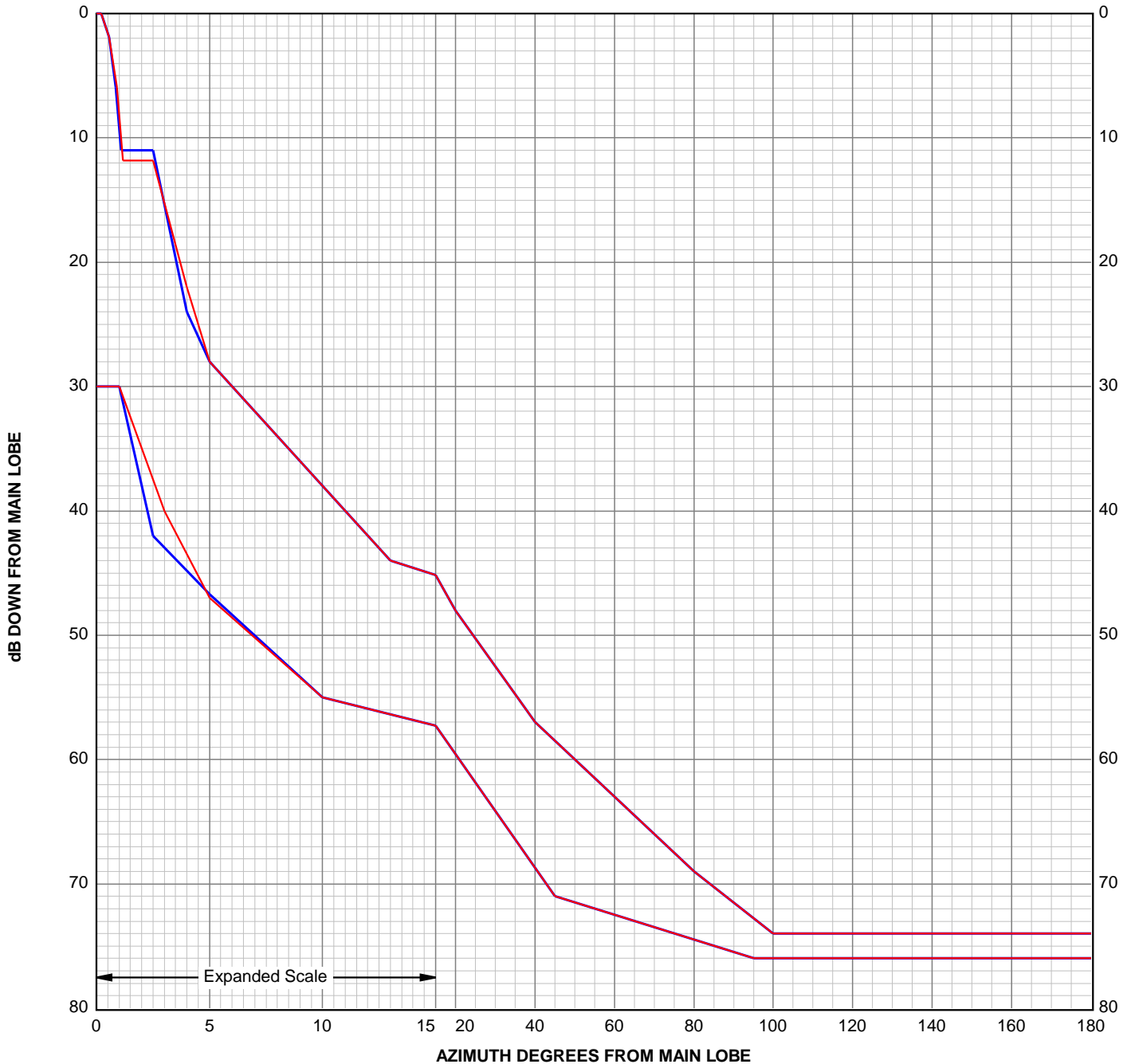
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7300B

Engineering Approved:  
10 June 2020



Antenna Type Number: SHPX3-18  
 3.00 Foot Antenna 17.700-19.700 GHz Dual Polarized  
 Gain: 43.50 dBi at 18.700 GHz  
 RPE: 7300B  
 Engineering Approved: 10 June 2020



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	1.00	-30.00	0.20	0.00	1.00	-30.00
0.55	-1.90	2.50	-42.00	0.55	-1.90	3.00	-40.00
0.85	-5.90	5.00	-46.70	0.90	-5.90	5.00	-47.00
1.10	-11.00	10.00	-55.00	1.16	-11.80	10.00	-55.00
2.50	-11.00	45.00	-71.00	2.50	-11.80	45.00	-71.00
4.00	-24.00	95.00	-76.00	4.00	-22.00	95.00	-76.00
5.00	-28.00	180.00	-76.00	5.00	-28.00	180.00	-76.00
13.00	-44.00			13.00	-44.00		
20.00	-48.00			20.00	-48.00		
40.00	-57.00			40.00	-57.00		
80.00	-69.00			80.00	-69.00		
100.00	-74.00			100.00	-74.00		
180.00	-74.00			180.00	-74.00		

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