

### RADIATION PATTERN ENVELOPE

Antenna Type Number: SHPX4-7W  
4.00 Foot Antenna 7.125-8.500 GHz Dual Polarized  
Gain: 37.40 dBi at 7.813 GHz

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

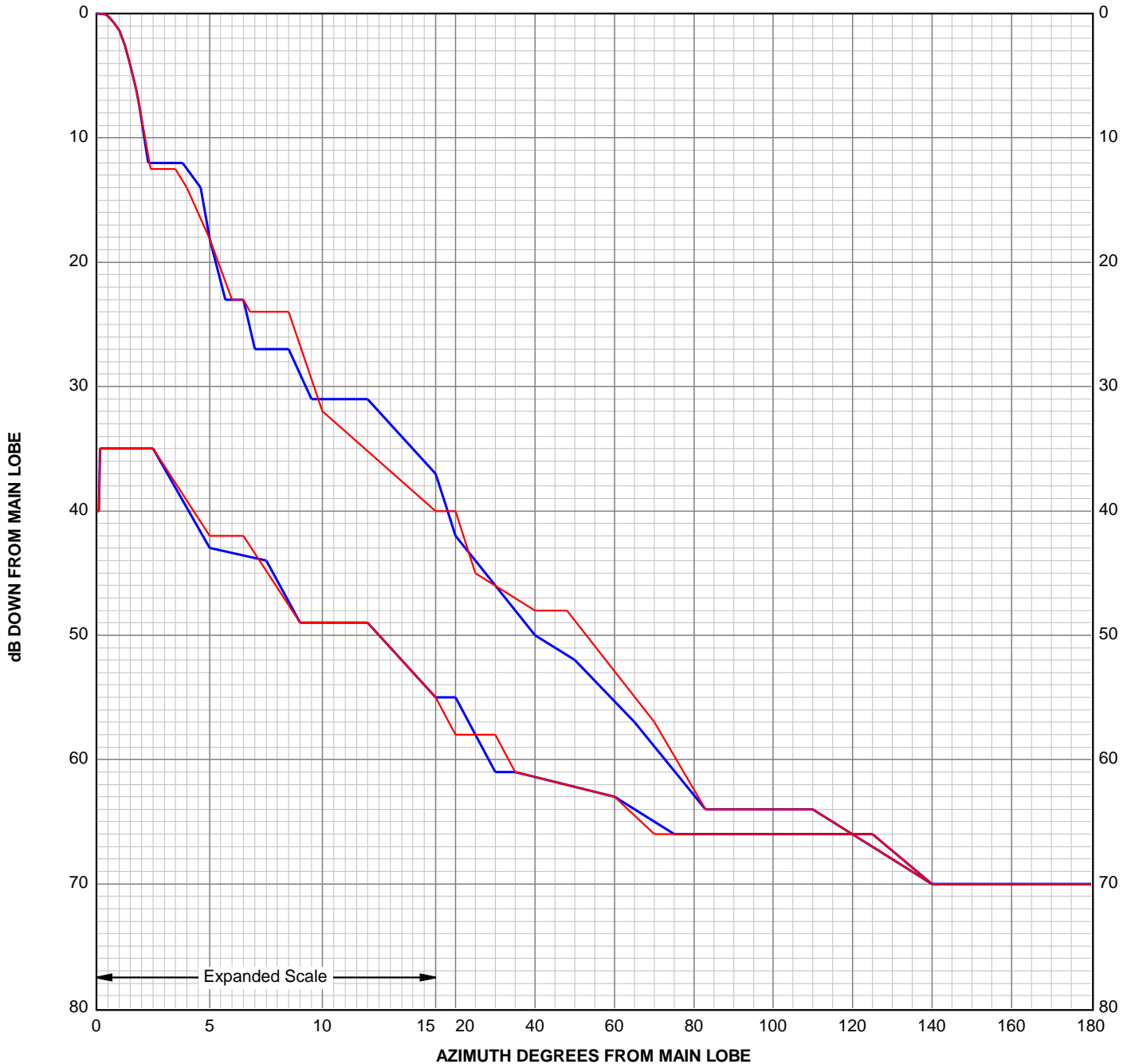
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7412

Engineering Approved:  
13 February 2019



Antenna Type Number: SHPX4-7W  
 4.00 Foot Antenna 7.125-8.500 GHz Dual Polarized  
 Gain: 37.40 dBi at 7.813 GHz  
 RPE: 7412  
 Engineering Approved: 13 February 2019



Angle	H/H dB	Angle	H/V dB	Angle	V/V dB	Angle	V/H dB
0.00	0.00	0.00	-40.00	0.00	0.00	0.00	-40.00
0.36	-0.05	0.10	-40.00	0.36	-0.05	0.10	-40.00
0.50	-0.20	0.15	-35.00	0.50	-0.20	0.15	-35.00
0.75	-0.66	2.50	-35.00	0.75	-0.66	2.50	-35.00
1.00	-1.37	5.00	-43.00	1.00	-1.37	5.00	-42.00
1.25	-2.54	7.50	-44.00	1.25	-2.54	6.50	-42.00
1.50	-4.11	9.00	-49.00	1.50	-4.11	9.00	-49.00
1.76	-6.09	12.00	-49.00	1.76	-6.09	12.00	-49.00
1.90	-7.36	15.00	-55.00	1.90	-7.36	15.00	-55.00
2.30	-12.00	20.00	-55.00	2.40	-12.50	20.00	-58.00
3.80	-12.00	30.00	-61.00	3.50	-12.50	30.00	-58.00
4.60	-14.00	35.00	-61.00	4.00	-14.00	35.00	-61.00
5.00	-18.10	60.00	-63.00	5.00	-18.10	60.00	-63.00
5.70	-23.00	75.00	-66.00	6.00	-23.00	70.00	-66.00
6.50	-23.00	125.00	-66.00	6.50	-23.00	125.00	-66.00
7.00	-27.00	140.00	-70.00	6.80	-24.00	140.00	-70.00
8.50	-27.00	180.00	-70.00	8.50	-24.00	180.00	-70.00
9.50	-31.00			10.00	-32.00		
12.00	-31.00			15.00	-40.00		
15.00	-37.00			20.00	-40.00		
18.00	-40.00			25.00	-45.00		
20.00	-42.00			40.00	-48.00		
25.00	-44.00			48.00	-48.00		
40.00	-50.00			70.00	-57.00		
50.00	-52.00			83.00	-64.00		
65.00	-57.00			110.00	-64.00		
83.00	-64.00			140.00	-70.00		
110.00	-64.00			180.00	-70.00		
140.00	-70.00						
180.00	-70.00						

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