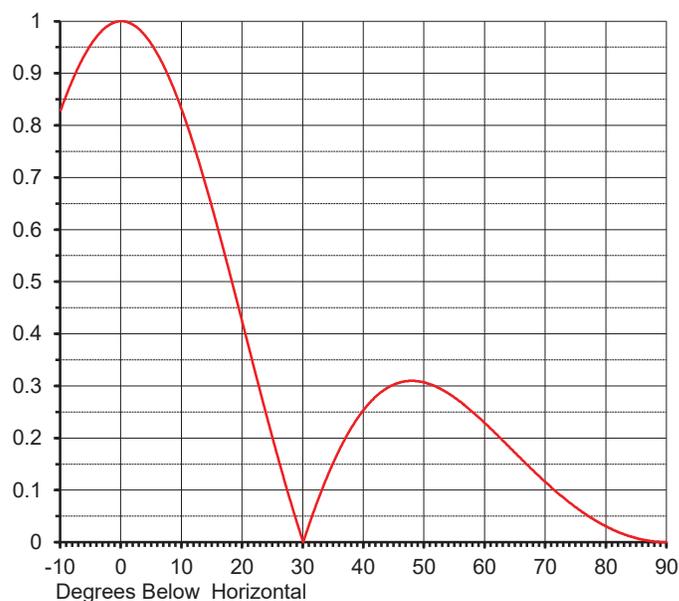
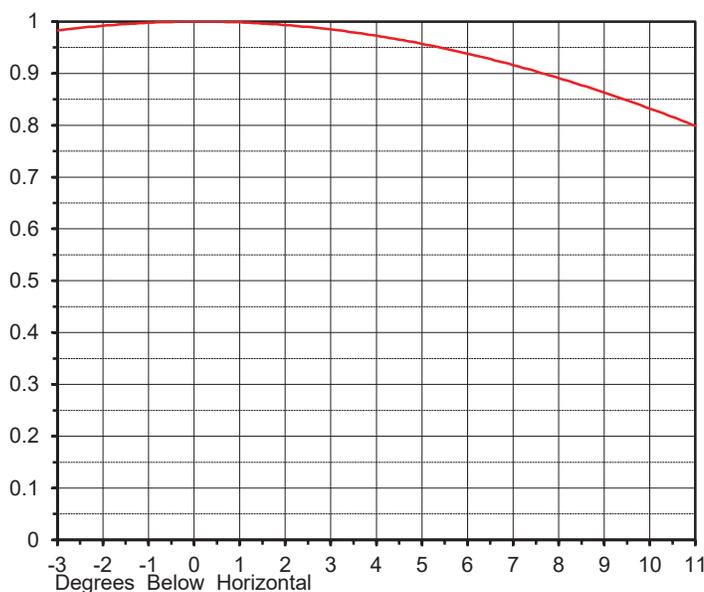


## ELEVATION PATTERN

Proposal No. **C-70622-1**  
 Date **1-Jun-17**  
 Call Letters **WSBE**  
 Channel **2**  
 Frequency **57 MHz**  
 Antenna Type **THA-04-4L/16H-1 VP (SP)**

RMS Directivity at Main Lobe **2.3 ( 3.54 dB )**  
 RMS Directivity at Horizontal **2.3 ( 3.62 dB )**  
**Calculated**

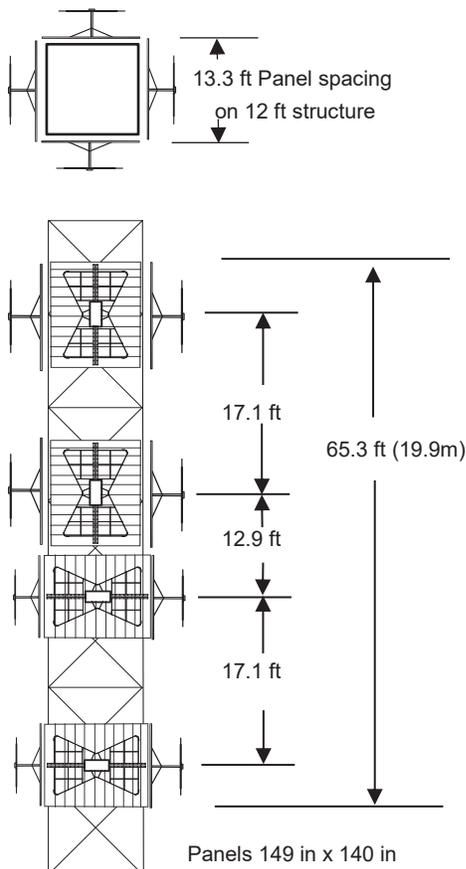
Beam Tilt **0.00 deg**  
 Pattern Number **02H023000**



Angle	Field								
-10.0	0.829	10.0	0.829	30.0	0.000	50.0	0.307	70.0	0.115
-9.0	0.860	11.0	0.796	31.0	0.035	51.0	0.303	71.0	0.104
-8.0	0.888	12.0	0.760	32.0	0.067	52.0	0.298	72.0	0.094
-7.0	0.914	13.0	0.722	33.0	0.098	53.0	0.292	73.0	0.085
-6.0	0.936	14.0	0.682	34.0	0.127	54.0	0.285	74.0	0.075
-5.0	0.955	15.0	0.641	35.0	0.154	55.0	0.277	75.0	0.067
-4.0	0.971	16.0	0.599	36.0	0.178	56.0	0.269	76.0	0.058
-3.0	0.984	17.0	0.555	37.0	0.201	57.0	0.259	77.0	0.050
-2.0	0.993	18.0	0.511	38.0	0.221	58.0	0.249	78.0	0.043
-1.0	0.998	19.0	0.466	39.0	0.239	59.0	0.239	79.0	0.036
0.0	1.000	20.0	0.420	40.0	0.254	60.0	0.228	80.0	0.030
1.0	0.998	21.0	0.375	41.0	0.268	61.0	0.217	81.0	0.024
2.0	0.993	22.0	0.330	42.0	0.280	62.0	0.206	82.0	0.019
3.0	0.984	23.0	0.285	43.0	0.289	63.0	0.194	83.0	0.015
4.0	0.971	24.0	0.241	44.0	0.297	64.0	0.183	84.0	0.011
5.0	0.955	25.0	0.198	45.0	0.303	65.0	0.171	85.0	0.008
6.0	0.936	26.0	0.155	46.0	0.307	66.0	0.159	86.0	0.005
7.0	0.914	27.0	0.114	47.0	0.309	67.0	0.148	87.0	0.003
8.0	0.888	28.0	0.075	48.0	0.310	68.0	0.137	88.0	0.001
9.0	0.860	29.0	0.036	49.0	0.309	69.0	0.126	89.0	0.000
								90.0	0.000

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## MECHANICAL SPECIFICATIONS



Proposal No. **C-70622-1**  
 Date **1-Jun-17**  
 Call Letters **WSBE**  
 Channel **2**  
 Frequency **57 MHz**  
 Antenna Type **THA-04-4L/16H-1 VP (SP)**

### Preliminary Specifications

#### Side Mounted

#### With ice TIA-222-G

Height AGL(z) 370 ft (112.8 m)  
 Basic Wind Speed 108 m/h (173.8 km/h)  
 Structure Class II  
 Exposure Category C  
 Topography Category 1

Design Ice 0.75 in  $t_{iz} = 1.91$  in  
 Wind Speed w/Ice 40 m/h (64.4 km/h)

#### Mechanical Specifications

		without ice	with ice	
Height	H2	65.3 ft (19.9m)		
Height of Center of Radiation	H3	47.2 ft (14.4m)		
Effective Projected Area	(EPA) <sub>A</sub>	446.7 ft <sup>2</sup> (41.5m <sup>2</sup> )	2353 ft <sup>2</sup> (218.6m <sup>2</sup> )	Mounts Excluded
Weight	W	10200 lb (4.6t)	40100 lb (18.2t)	Mounts Excluded

Antenna designed in accordance with AISC specifications for design of structural steel as prescribed by TIA-222-G

Prepared by: JBC

Date: 1-Jun-17

ME:

EE:

Rev. No.1 by:

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