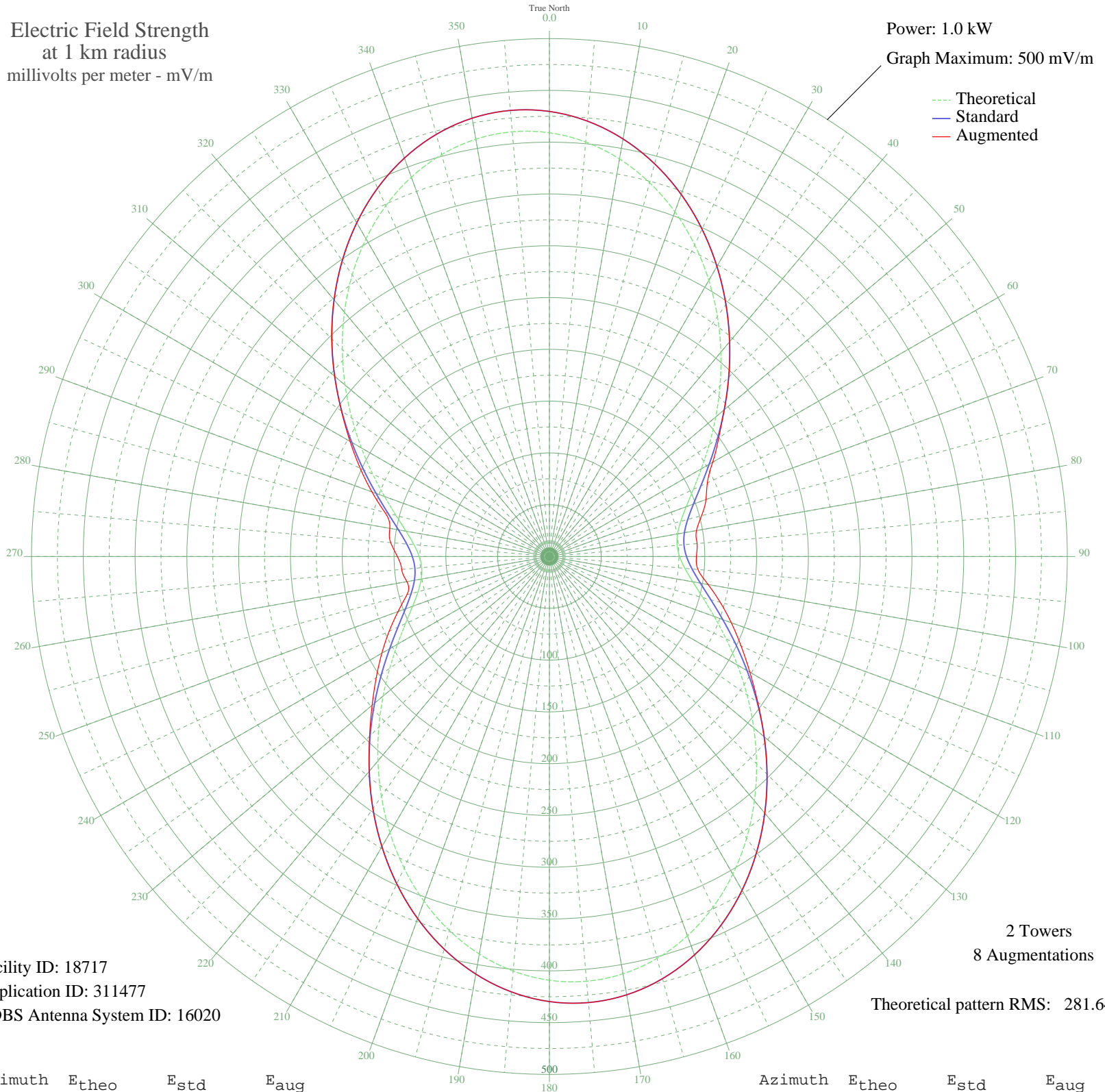


# WSPR SPRINGFIELD, MA BL-8346 1270 kHz

Nighttime

Electric Field Strength  
at 1 km radius  
millivolts per meter - mV/m

Power: 1.0 kW  
Graph Maximum: 500 mV/m



Facility ID: 18717  
Application ID: 311477  
CDBS Antenna System ID: 16020

2 Towers  
8 Augmentations  
Theoretical pattern RMS: 281.64

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	409.09	429.67	429.67
5	401.69	421.91	421.91
10	389.71	409.33	409.33
15	373.64	392.47	392.47
20	354.13	371.98	371.98
25	331.92	348.68	348.68
30	307.86	323.42	323.42
35	282.79	297.11	297.11
40	257.54	270.62	270.62
45	232.90	244.77	244.77
50	209.59	220.32	220.32
55	188.22	197.91	199.56
60	169.33	178.10	182.01
65	153.33	161.34	168.25
70	140.57	147.97	160.82
75	131.29	138.25	152.06
80	125.66	132.36	144.15
85	123.77	130.38	143.14
90	125.66	132.36	141.91
95	131.29	138.25	143.94
100	140.57	147.97	155.54
105	153.33	161.34	170.67
110	169.33	178.10	186.82
115	188.22	197.91	204.13
120	209.59	220.32	223.45
125	232.90	244.77	245.58
130	257.54	270.62	270.62
135	282.79	297.11	297.11
140	307.86	323.42	323.42
145	331.92	348.68	348.68
150	354.13	371.98	371.98
155	373.64	392.47	392.47
160	389.71	409.33	409.33
165	401.69	421.91	421.91
170	409.09	429.67	429.67
175	411.59	432.30	432.30

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	409.09	429.67	429.67
185	401.69	421.91	421.91
190	389.71	409.33	409.33
195	373.64	392.47	392.47
200	354.13	371.98	371.98
205	331.92	348.68	348.68
210	307.86	323.42	323.42
215	282.79	297.11	297.11
220	257.54	270.62	270.62
225	232.90	244.77	245.58
230	209.59	220.32	223.45
235	188.22	197.91	204.13
240	169.33	178.10	186.82
245	153.33	161.34	170.67
250	140.57	147.97	155.54
255	131.29	138.25	142.41
260	125.66	132.36	139.72
265	123.77	130.38	143.14
270	125.66	132.36	146.76
275	131.29	138.25	153.84
280	140.57	147.97	156.48
285	153.33	161.34	164.44
290	169.33	178.10	182.35
295	188.22	197.91	201.58
300	209.59	220.32	222.27
305	232.90	244.77	245.19
310	257.54	270.62	270.62
315	282.79	297.11	297.11
320	307.86	323.42	323.42
325	331.92	348.68	348.68
330	354.13	371.98	371.98
335	373.64	392.47	392.47
340	389.71	409.33	409.33
345	401.69	421.91	421.91
350	409.09	429.67	429.67
355	411.59	432.30	432.30

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

04 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission