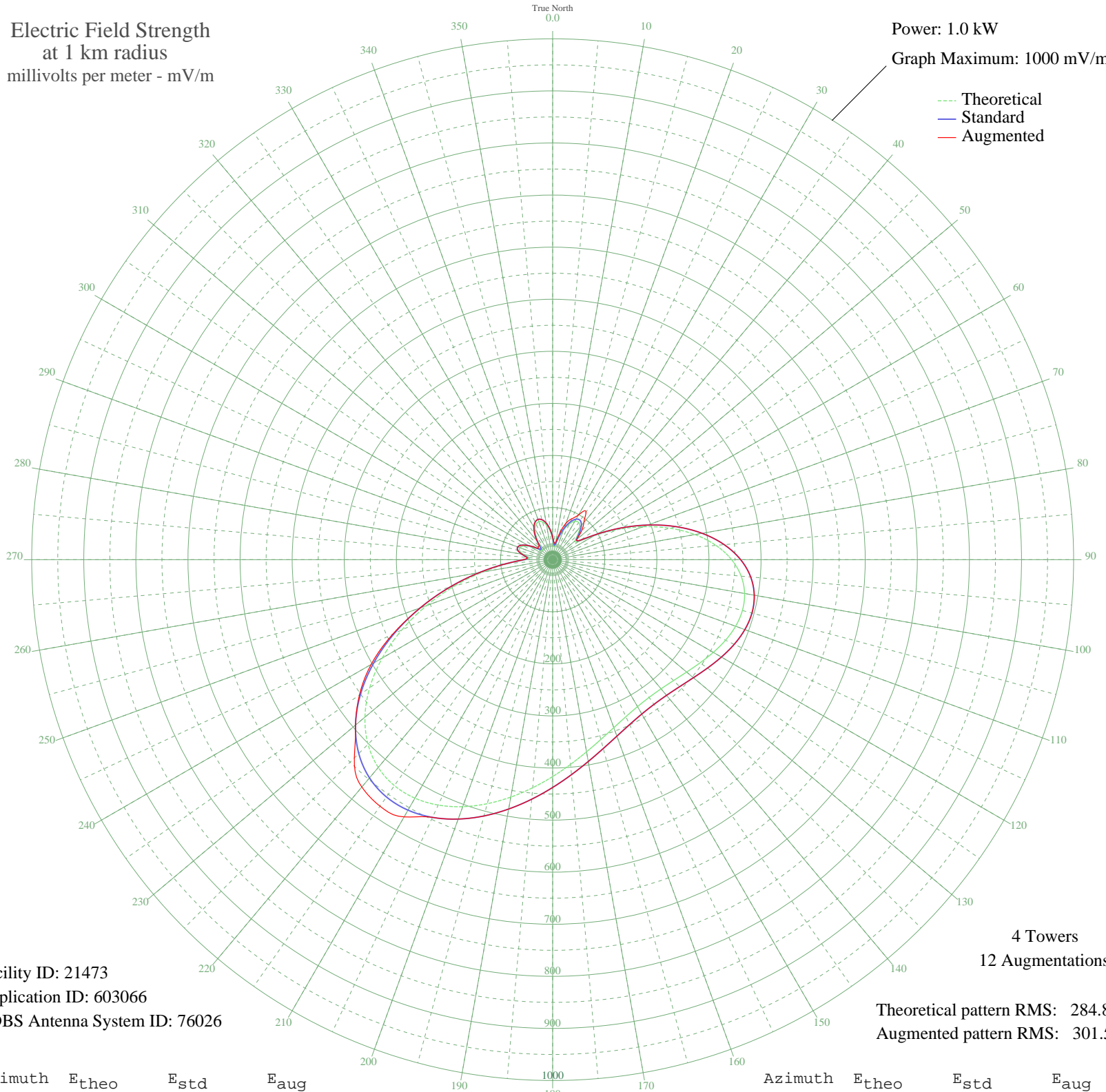


WPLN MADISON, TN BL-20020513ABA 1430 kHz

Nighttime

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

Power: 1.0 kW  
Graph Maximum: 1000 mV/m



Facility ID: 21473  
Application ID: 603066  
CDBS Antenna System ID: 76026

4 Towers  
12 Augmentations  
Theoretical pattern RMS: 284.85  
Augmented pattern RMS: 301.51

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	39.87	43.16	43.16
5	26.67	29.91	33.02
10	27.31	30.54	34.05
15	42.42	45.76	53.60
20	60.29	64.17	74.09
25	75.43	79.89	86.45
30	84.98	89.84	99.03
35	87.11	92.06	111.88
40	81.10	85.80	93.42
45	68.40	72.58	79.12
50	56.07	59.80	60.89
55	61.50	65.42	65.66
60	92.01	97.18	97.80
65	136.08	143.27	143.52
70	184.87	194.40	194.40
75	233.19	245.07	245.07
80	277.35	291.41	291.41
85	314.70	330.61	330.61
90	343.57	360.90	360.90
95	363.28	381.59	381.59
100	374.10	392.94	392.94
105	377.07	396.06	396.06
110	373.78	392.61	392.61
115	366.12	384.57	384.57
120	356.06	374.01	374.01
125	345.40	362.83	362.83
130	335.72	352.66	352.66
135	328.21	344.78	344.78
140	323.74	340.09	340.09
145	322.85	339.15	339.15
150	325.80	342.25	342.25
155	332.64	349.43	349.43
160	343.24	360.56	360.56
165	357.36	375.37	375.37
170	374.61	393.48	393.48
175	394.51	414.36	414.36

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	416.43	437.38	437.38
185	439.56	461.66	461.66
190	462.87	486.13	486.13
195	485.08	509.45	509.45
200	504.66	530.00	530.00
205	519.85	545.94	545.94
210	528.78	555.32	570.26
215	529.64	556.22	577.82
220	520.81	546.96	569.83
225	501.19	526.36	538.38
230	470.35	493.98	493.98
235	428.71	450.27	452.77
240	377.66	396.68	402.34
245	319.50	335.64	338.99
250	257.31	270.38	270.38
255	194.73	204.74	204.74
260	135.83	143.01	143.01
265	85.44	90.33	90.33
270	51.46	55.04	56.05
275	45.26	48.67	50.19
280	56.22	59.95	59.95
285	65.35	69.42	69.42
290	67.21	71.35	71.35
295	61.74	65.67	65.67
300	50.66	54.22	54.22
305	37.07	40.31	40.31
310	27.05	30.28	36.27
315	29.76	32.97	36.69
320	42.31	45.65	45.65
325	56.23	59.96	59.96
330	67.72	71.88	71.88
335	75.15	79.60	79.60
340	77.67	82.23	82.23
345	74.97	79.41	79.41
350	67.16	71.30	71.30
355	54.92	58.61	58.61

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission