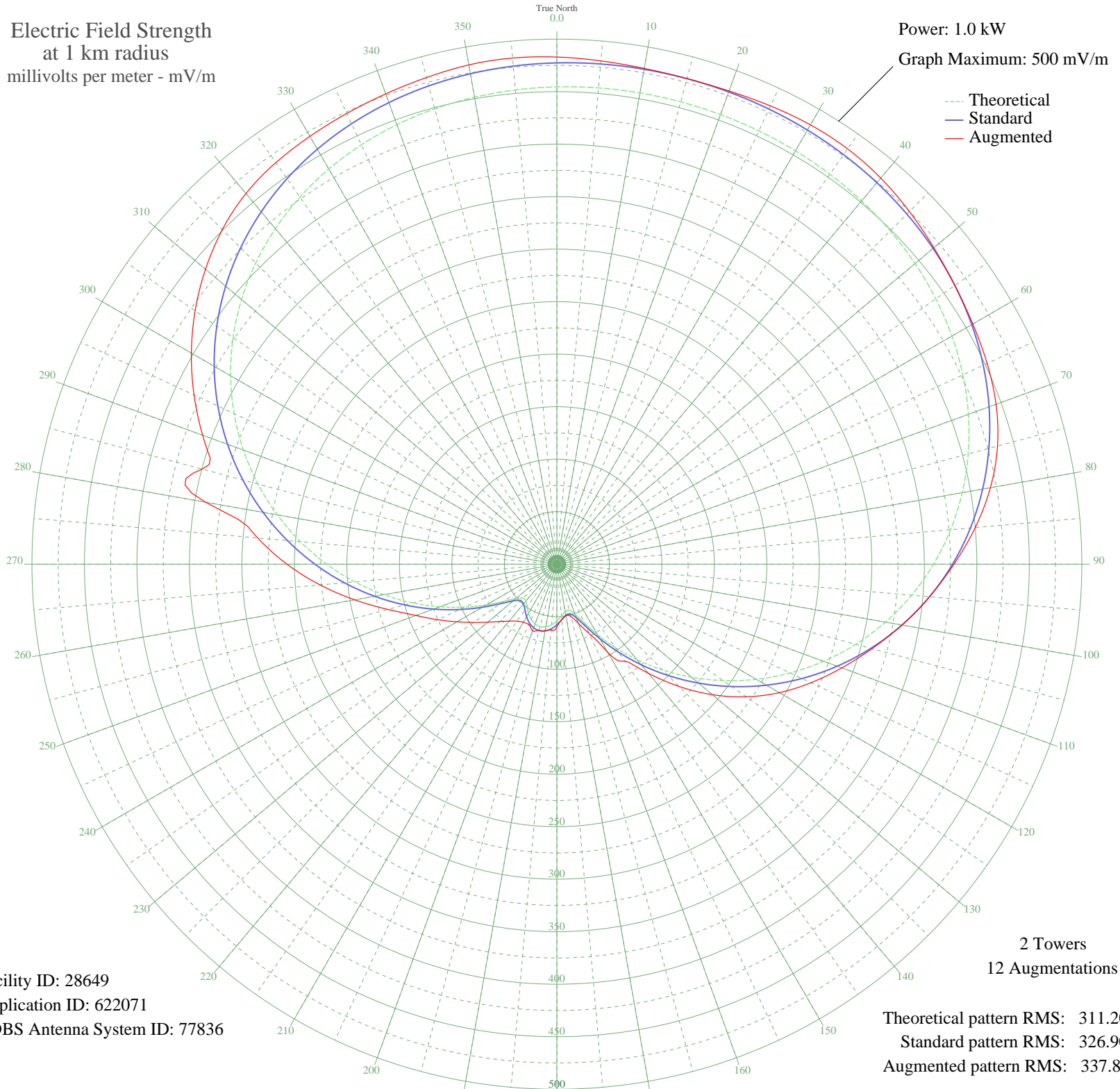


**KWAD WADENA, MN BL-20021209ACE 920 kHz**

**Nighttime**

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

Power: 1.0 kW  
Graph Maximum: 500 mV/m



Facility ID: 28649  
Application ID: 622071  
CDBS Antenna System ID: 77836

2 Towers  
12 Augmentations

Theoretical pattern RMS: 311.20  
Standard pattern RMS: 326.90  
Augmented pattern RMS: 337.89

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	454.52	477.36	482.96
5	455.27	478.15	481.10
10	455.67	478.57	479.38
15	455.79	478.70	478.70
20	455.67	478.57	479.55
25	455.27	478.15	481.49
30	454.52	477.36	483.07
35	453.32	476.11	482.80
40	451.52	474.22	479.96
45	448.94	471.51	474.90
50	445.38	467.77	468.77
55	440.62	462.77	462.77
60	434.46	456.30	457.47
65	426.68	448.13	452.20
70	417.11	438.09	445.16
75	405.60	426.01	434.52
80	392.07	411.80	419.32
85	376.46	395.42	400.02
90	358.80	376.88	378.30
95	339.17	356.29	356.29
100	317.74	333.80	333.80
105	294.73	309.64	310.85
110	270.42	284.13	288.82
115	245.13	257.61	267.15
120	219.27	230.47	244.69
125	193.23	203.16	220.21
130	167.46	176.15	193.39
135	142.44	149.93	164.72
140	118.68	125.06	135.70
145	96.77	102.15	112.78
150	77.44	81.99	97.21
155	61.68	65.61	73.05
160	50.75	54.31	59.93
165	45.69	49.11	51.60
170	46.01	49.43	49.66
175	49.55	53.08	53.08

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.

20 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	54.04	57.71	59.95
185	58.00	61.80	62.91
190	60.62	64.51	64.51
195	61.53	65.45	65.45
200	60.62	64.51	67.59
205	58.00	61.80	63.34
210	54.04	57.71	63.84
215	49.55	53.08	66.28
220	46.01	49.43	70.78
225	45.69	49.11	77.34
230	50.75	54.31	85.98
235	61.68	65.61	96.76
240	77.44	81.99	109.77
245	96.77	102.15	125.09
250	118.68	125.06	142.84
255	142.44	149.93	166.62
260	167.46	176.15	195.51
265	193.23	203.16	226.44
270	219.27	230.47	257.13
275	245.14	257.61	286.03
280	270.42	284.13	339.84
285	294.73	309.64	349.80
290	317.74	333.80	359.10
295	339.17	356.29	381.31
300	358.80	376.88	402.00
305	376.46	395.42	420.65
310	392.07	411.80	436.91
315	405.60	426.01	450.62
320	417.11	438.09	460.75
325	426.68	448.13	466.76
330	434.46	456.30	470.44
335	440.62	462.77	473.56
340	445.38	467.77	476.62
345	448.94	471.51	479.78
350	451.52	474.22	482.80
355	453.32	476.11	483.85