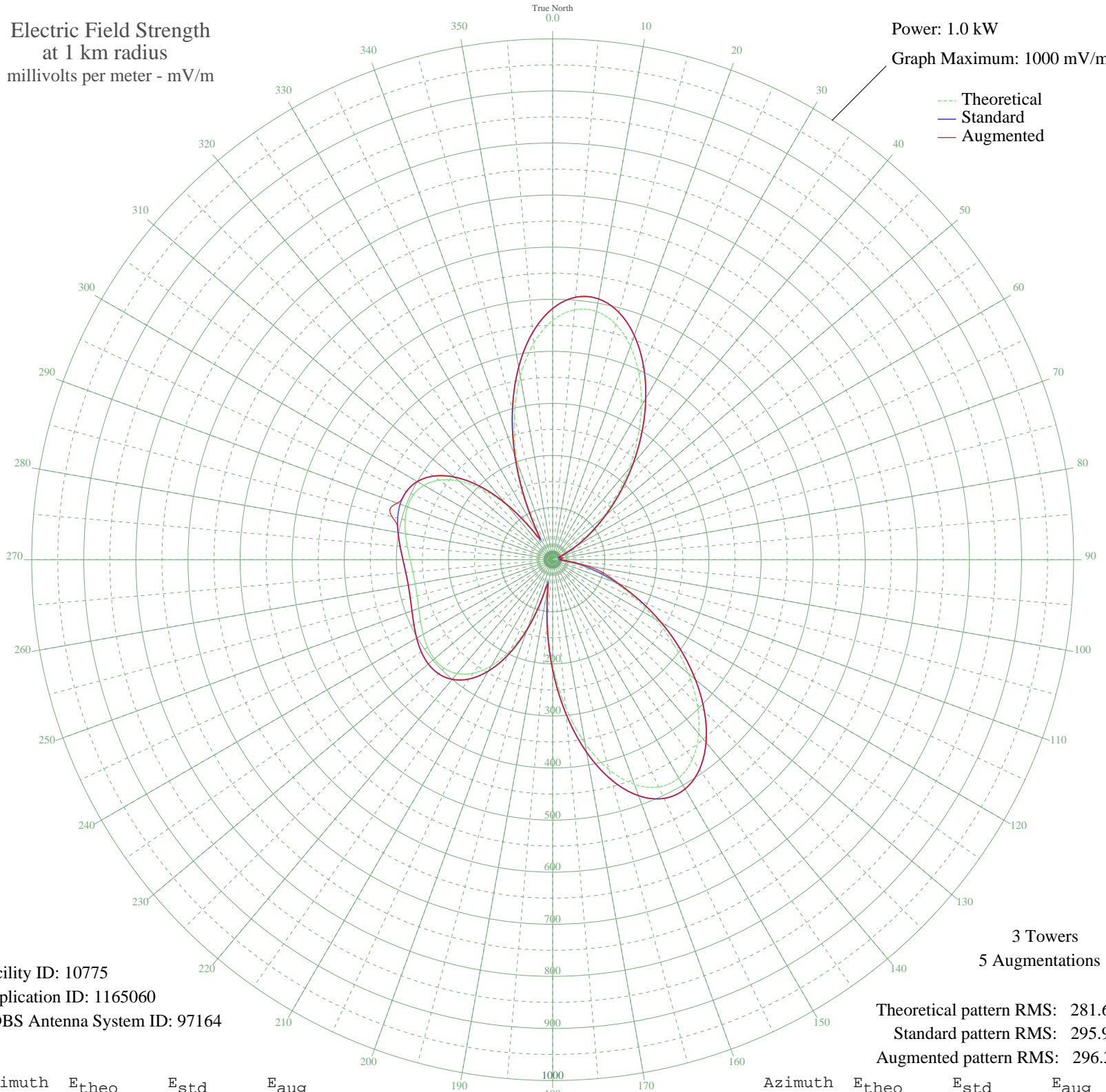


# KMNS SIOUX CITY, IA BL-20061205AEJ 620 kHz

Nighttime

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

Power: 1.0 kW  
Graph Maximum: 1000 mV/m



Facility ID: 10775  
Application ID: 1165060  
CDBS Antenna System ID: 97164

Theoretical pattern RMS: 281.64  
Standard pattern RMS: 295.90  
Augmented pattern RMS: 296.30

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	459.21	482.29	482.29
5	481.57	505.76	505.76
10	484.01	508.32	508.32
15	467.94	491.45	491.45
20	436.12	458.04	458.04
25	392.21	411.95	411.95
30	340.30	357.47	357.47
35	284.42	298.83	298.83
40	228.22	239.86	239.86
45	174.67	183.70	183.70
50	126.01	132.73	132.73
55	83.77	88.59	88.59
60	48.84	52.34	52.34
65	21.63	25.02	25.08
70	2.27	10.77	12.08
75	9.31	14.35	16.66
80	13.15	17.35	20.12
85	9.31	14.35	17.69
90	2.27	10.77	13.99
95	21.63	25.02	25.77
100	48.84	52.34	66.32
105	83.77	88.59	102.85
110	126.01	132.73	135.36
115	174.67	183.70	183.70
120	228.22	239.86	239.86
125	284.42	298.83	298.83
130	340.30	357.47	357.47
135	392.21	411.95	411.95
140	436.12	458.04	458.04
145	467.94	491.45	491.45
150	484.01	508.32	508.32
155	481.57	505.76	505.76
160	459.21	482.29	482.29
165	417.19	438.18	438.18
170	357.51	375.53	375.53
175	283.84	298.22	298.22

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.

06 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	201.24	211.56	211.56
185	116.39	122.66	122.66
190	45.98	49.41	53.08
195	70.40	74.66	74.92
200	134.65	141.77	141.77
205	191.06	200.89	200.89
210	235.05	247.03	247.03
215	266.17	279.67	279.67
220	285.45	299.91	299.91
225	294.80	309.71	309.71
230	296.53	311.54	311.54
235	293.11	307.94	307.94
240	286.85	301.37	301.37
245	279.78	293.96	293.96
250	273.55	287.42	287.42
255	269.33	282.99	282.99
260	267.85	281.44	281.44
265	269.33	282.99	282.99
270	273.55	287.42	287.42
275	279.78	293.96	293.96
280	286.85	301.37	301.37
285	293.11	307.94	319.33
290	296.53	311.54	317.53
295	294.80	309.71	309.71
300	285.45	299.91	299.91
305	266.16	279.67	279.67
310	235.05	247.03	247.03
315	191.06	200.89	200.89
320	134.65	141.77	141.77
325	70.39	74.66	75.42
330	45.98	49.41	51.56
335	116.39	122.66	122.66
340	201.24	211.56	211.56
345	283.84	298.22	298.22
350	357.51	375.54	375.54
355	417.19	438.18	438.18