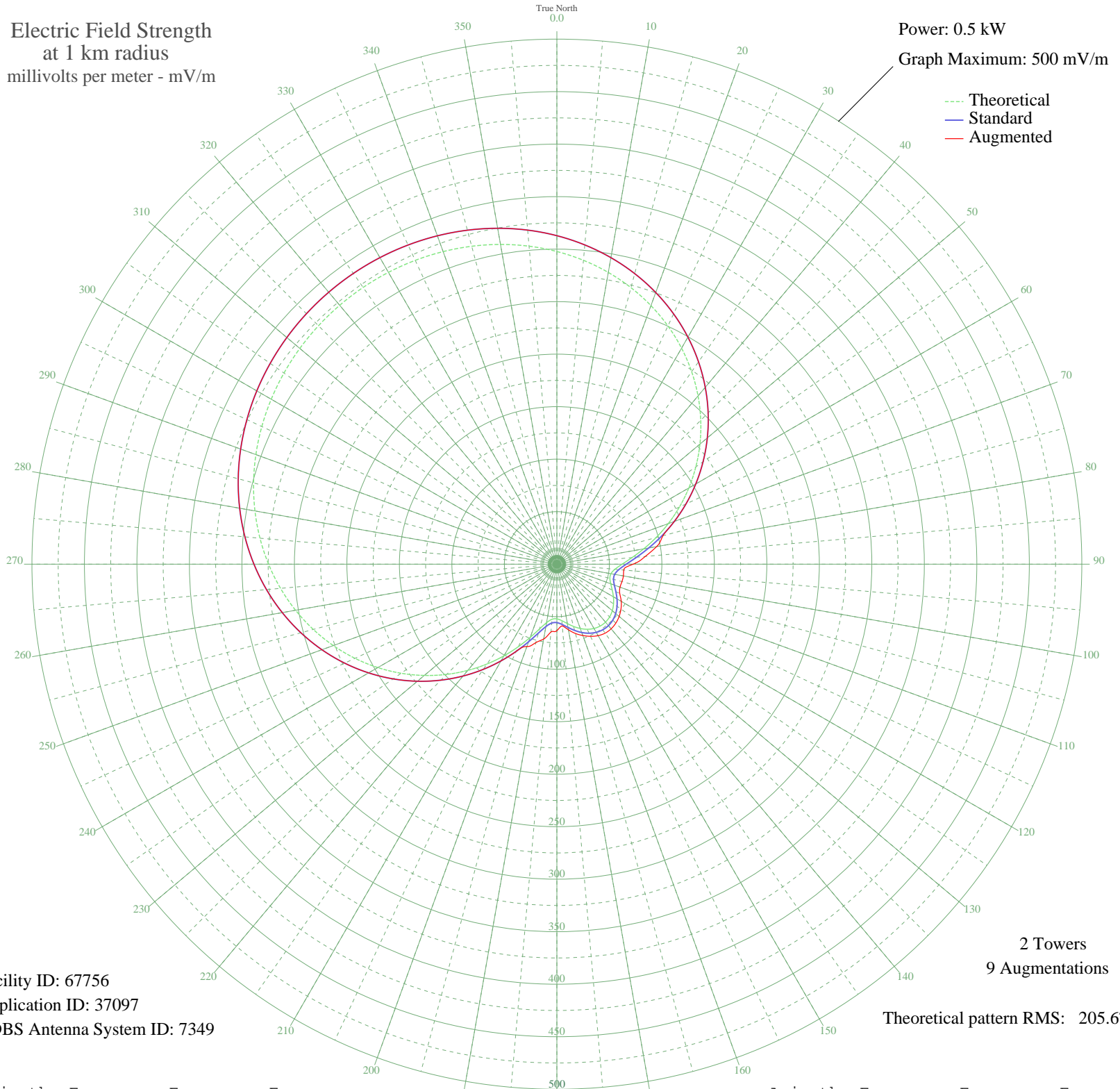


# KSOU SIOUX CENTER, IA BL-19811209AM 1090 kHz

Daytime

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m



Facility ID: 67756  
Application ID: 37097  
CDBS Antenna System ID: 7349

2 Towers  
9 Augmentations  
Theoretical pattern RMS: 205.67

Azimuth	Etheo	Estd	Eaug
0	297.76	312.82	312.82
5	290.48	305.19	305.19
10	282.11	296.40	296.40
15	272.63	286.45	286.45
20	262.02	275.32	275.32
25	250.31	263.03	263.03
30	237.54	249.64	249.64
35	223.79	235.22	235.22
40	209.17	219.88	219.88
45	193.81	203.77	203.77
50	177.88	187.07	187.07
55	161.58	169.98	169.98
60	145.13	152.75	152.75
65	128.82	135.66	135.66
70	112.93	119.04	119.04
75	97.84	103.26	104.56
80	83.97	88.79	96.54
85	71.87	76.19	84.51
90	62.17	66.12	72.64
95	55.52	59.24	63.97
100	52.30	55.91	64.32
105	52.27	55.88	64.15
110	54.59	58.27	64.00
115	58.19	62.00	66.08
120	62.17	66.12	70.80
125	65.88	69.97	74.51
130	68.92	73.12	77.41
135	71.02	75.31	79.40
140	72.05	76.37	80.36
145	71.93	76.25	80.18
150	70.68	74.96	78.58
155	68.38	72.56	75.80
160	65.18	69.24	72.29
165	61.38	65.30	68.32
170	57.41	61.19	63.43
175	53.99	57.65	59.00

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	52.06	55.66	63.33
185	52.67	56.29	64.82
190	56.58	60.33	72.41
195	63.88	67.90	77.32
200	74.12	78.53	83.49
205	86.62	91.56	91.56
210	100.77	106.33	106.33
215	116.06	122.31	122.31
220	132.06	139.05	139.05
225	148.42	156.20	156.20
230	164.86	173.42	173.42
235	181.10	190.45	190.45
240	196.94	207.05	207.05
245	212.16	223.02	223.02
250	226.62	238.18	238.18
255	240.18	252.40	252.40
260	252.74	265.58	265.58
265	264.23	277.64	277.64
270	274.61	288.53	288.53
275	283.88	298.25	298.25
280	292.02	306.81	306.81
285	299.08	314.21	314.21
290	305.09	320.52	320.52
295	310.10	325.78	325.78
300	314.16	330.04	330.04
305	317.32	333.35	333.35
310	319.63	335.77	335.77
315	321.12	337.34	337.34
320	321.82	338.07	338.07
325	321.74	337.99	337.99
330	320.89	337.09	337.09
335	319.23	335.36	335.36
340	316.76	332.76	332.76
345	313.42	329.26	329.26
350	309.18	324.81	324.81
355	303.97	319.35	319.35