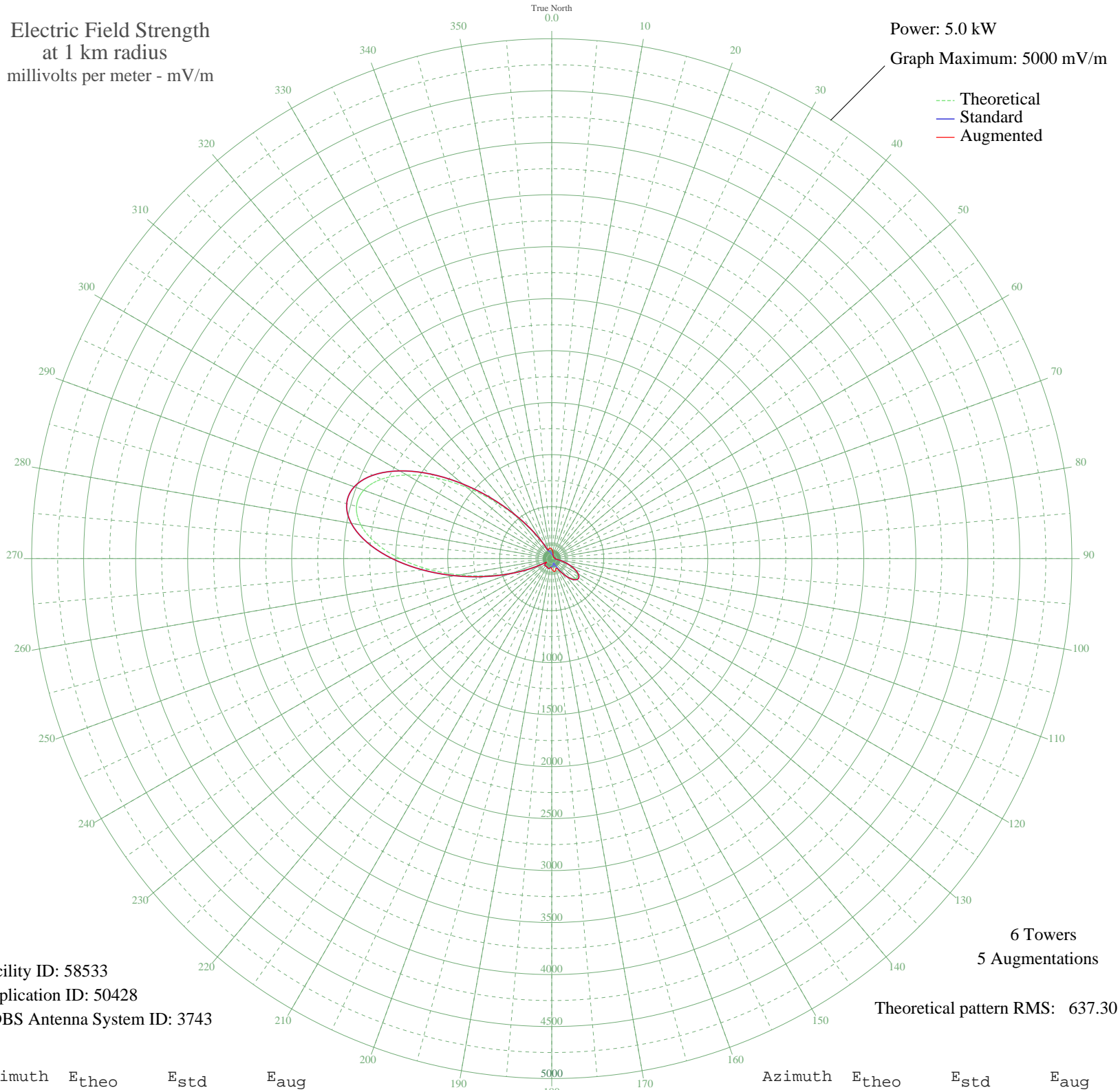


# KPSZ DES MOINES, IA BL-19821209AA 940 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 58533  
Application ID: 50428  
CDBS Antenna System ID: 3743

6 Towers  
5 Augmentations  
Theoretical pattern RMS: 637.30

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	31.81	40.82	91.82
5	29.34	38.74	79.97
10	30.47	39.68	64.48
15	29.46	38.83	47.14
20	25.09	35.29	35.29
25	18.90	30.75	30.64
30	13.73	27.55	27.13
35	11.79	26.54	25.63
40	11.57	26.44	25.02
45	10.36	25.87	23.98
50	7.63	24.81	22.56
55	4.70	23.99	21.66
60	2.98	23.69	21.60
65	2.01	23.57	21.97
70	5.98	24.30	23.31
75	13.48	27.42	26.99
80	20.48	31.83	31.74
85	22.14	33.04	33.04
90	14.20	27.81	30.74
95	17.33	29.71	35.00
100	56.89	64.18	65.50
105	112.04	119.96	119.96
110	174.36	184.58	184.58
115	233.66	246.46	246.46
120	279.13	294.03	294.03
125	301.93	317.90	317.90
130	297.45	313.21	313.21
135	266.44	280.75	280.75
140	214.79	226.74	226.74
145	152.05	161.37	164.83
150	89.74	97.11	116.30
155	42.68	50.59	101.57
160	37.54	45.88	113.24
165	54.07	61.44	125.00
170	62.95	70.14	125.06
175	64.69	71.87	113.67

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.

10 Nov 2011

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	66.33	73.50	97.45
185	72.87	80.04	86.82
190	82.52	89.77	89.77
195	90.17	97.55	97.55
200	92.32	99.74	99.74
205	88.91	96.26	96.26
210	83.60	90.86	90.86
215	82.00	89.25	89.25
220	85.56	92.85	92.85
225	87.19	94.52	94.29
230	76.50	83.69	82.81
235	55.60	62.92	60.91
240	93.99	101.45	100.00
245	217.63	229.72	229.18
250	400.37	421.05	420.87
255	632.61	664.65	664.62
260	901.16	946.51	946.51
265	1185.80	1245.31	1245.31
270	1460.28	1533.47	1533.47
275	1695.46	1780.39	1780.39
280	1863.66	1956.98	1956.98
285	1943.48	2040.79	2040.79
290	1923.99	2020.32	2020.32
295	1807.04	1897.53	1897.53
300	1607.24	1687.76	1687.76
305	1349.33	1416.99	1416.99
310	1063.64	1117.07	1117.07
315	780.80	820.18	820.18
320	526.90	553.75	553.75
325	320.47	337.31	337.31
330	172.16	182.28	182.28
335	88.46	95.80	99.46
340	66.12	73.29	89.19
345	64.19	71.38	99.94
350	55.77	63.09	103.65
355	42.28	50.22	100.00