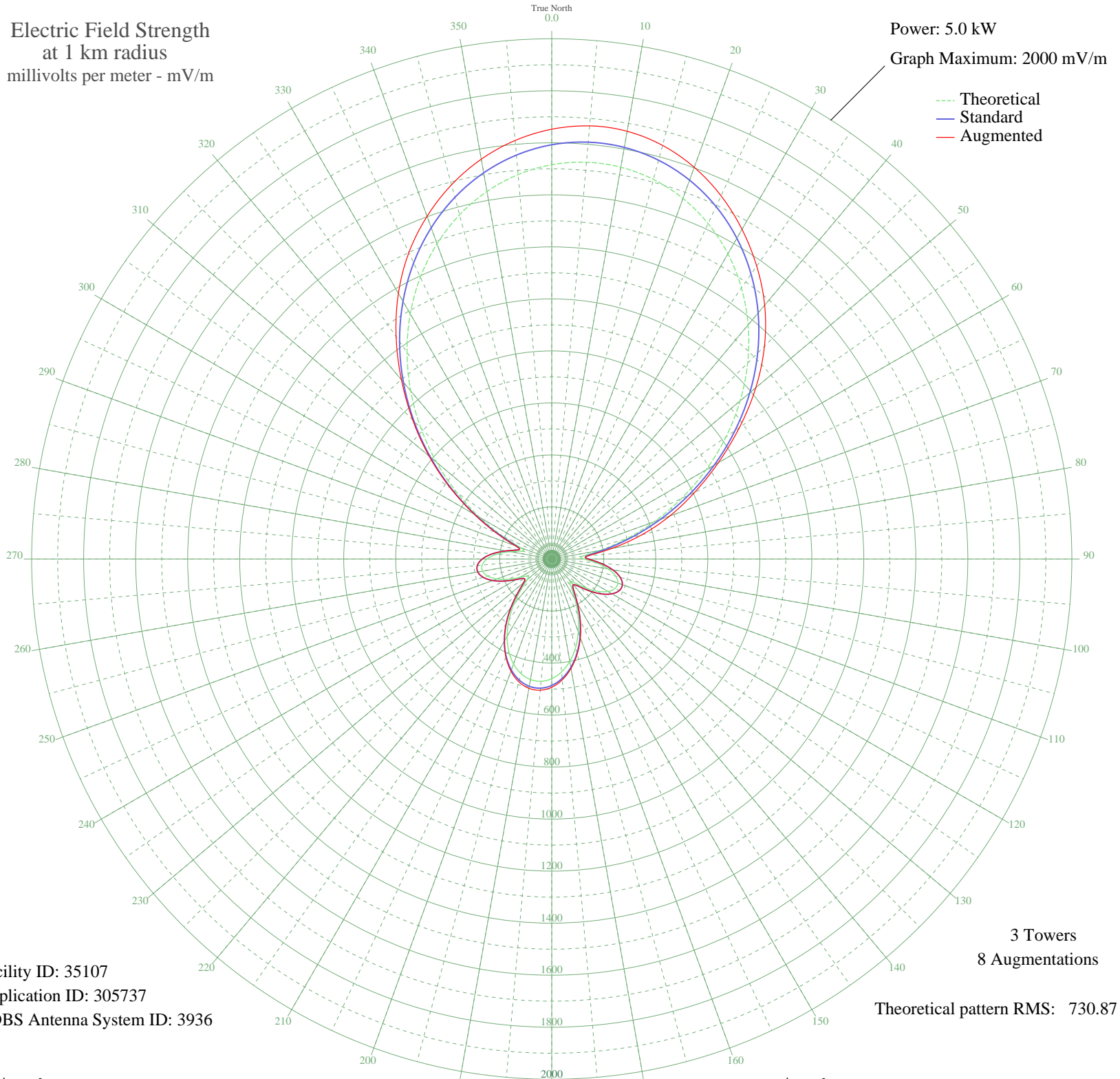


# KMA SHENANDOAH, IA BL-- 960 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 35107  
Application ID: 305737  
CDBS Antenna System ID: 3936

3 Towers  
8 Augmentations

Theoretical pattern RMS: 730.87

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	1515.80	1592.51	1652.25
5	1531.14	1608.60	1671.58
10	1529.43	1606.81	1669.75
15	1510.70	1587.15	1646.22
20	1475.11	1549.81	1602.48
25	1423.01	1495.14	1540.64
30	1354.98	1423.76	1463.47
35	1271.85	1336.54	1374.16
40	1174.80	1234.72	1273.92
45	1065.37	1119.94	1156.89
50	945.56	994.31	1024.46
55	817.82	860.41	881.11
60	685.12	721.40	739.29
65	550.91	580.98	606.42
70	419.32	443.59	482.80
75	295.55	315.00	358.24
80	188.17	204.84	234.84
85	118.82	135.97	140.41
90	123.74	140.73	140.73
95	172.58	189.10	189.10
100	220.61	237.86	237.86
105	254.34	272.48	272.48
110	270.33	288.95	288.95
115	268.26	286.82	286.82
120	249.52	267.52	267.52
125	216.94	234.11	234.11
130	175.30	191.85	191.85
135	133.72	150.45	150.45
140	111.50	128.96	128.96
145	130.11	146.92	147.77
150	179.30	195.88	198.62
155	238.92	256.63	260.45
160	298.63	318.19	321.87
165	353.25	374.83	378.35
170	399.66	423.11	427.30
175	435.76	460.74	466.19

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	460.12	486.15	493.20
185	471.85	498.39	506.43
190	470.55	497.02	504.95
195	456.24	482.09	488.83
200	429.45	454.15	458.90
205	391.15	414.25	416.72
210	342.90	364.08	364.68
215	286.97	306.13	306.13
220	226.77	244.17	244.17
225	168.14	184.64	184.64
230	123.16	140.17	140.17
235	113.06	130.45	130.45
240	141.30	157.91	157.91
245	184.02	200.64	200.64
250	224.37	241.71	241.71
255	254.49	272.63	272.63
260	270.07	288.69	288.69
265	268.60	287.16	287.16
270	248.97	266.95	266.95
275	211.94	229.01	229.01
280	162.08	178.56	178.56
285	117.10	134.32	134.32
290	127.64	144.52	148.72
295	207.64	224.63	233.35
300	319.35	339.65	343.70
305	445.20	470.58	476.10
310	577.69	608.98	616.26
315	711.90	749.44	756.39
320	843.87	887.71	899.32
325	970.24	1020.18	1043.45
330	1088.16	1143.84	1179.38
335	1195.26	1256.18	1299.99
340	1289.64	1355.20	1401.95
345	1369.83	1439.33	1489.37
350	1434.73	1507.43	1560.80
355	1483.56	1558.68	1615.22