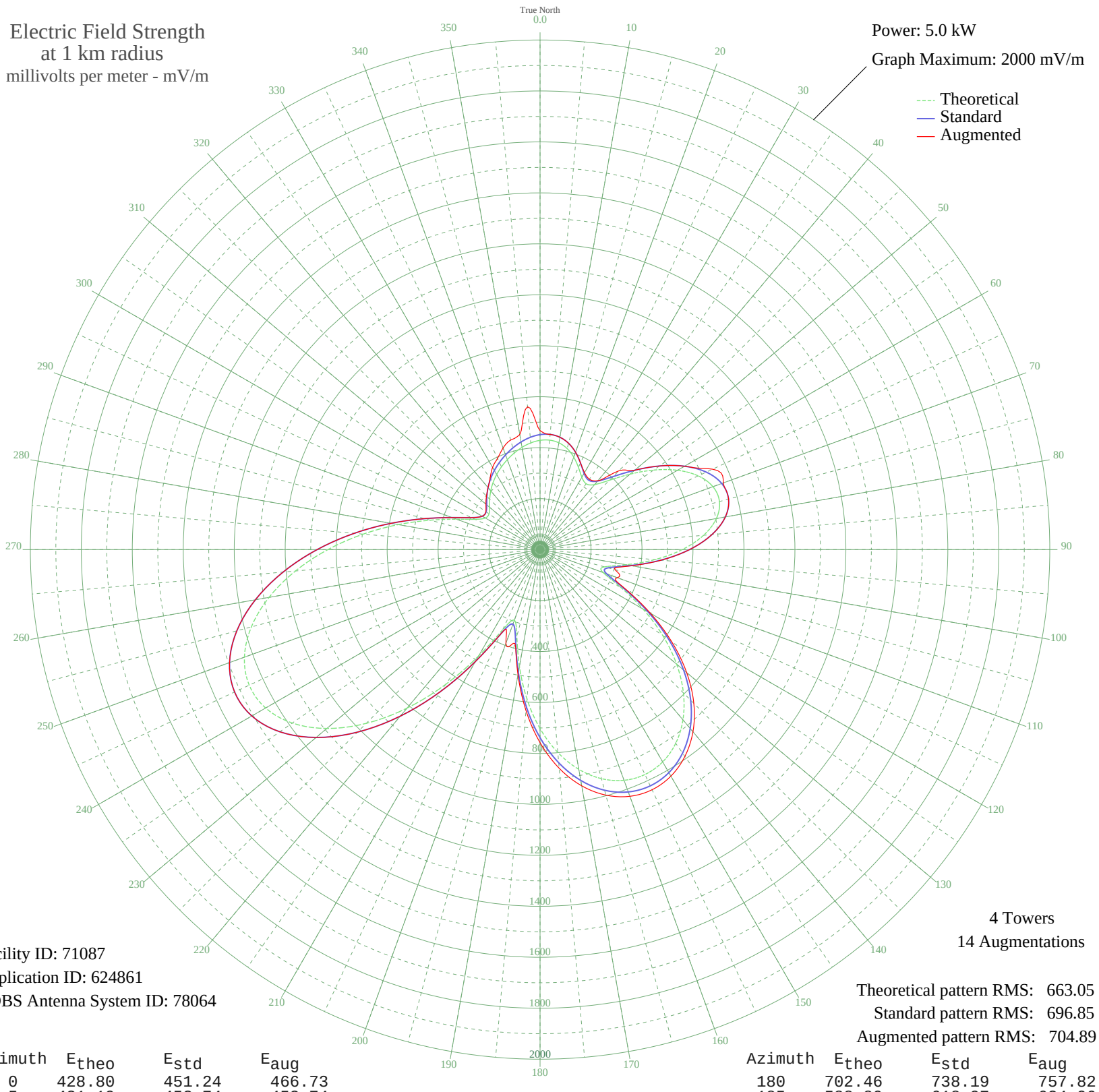
KTSA SAN ANTONIO, TX BL-20030121ADL 550 kHz

Nighttime

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



Power: 5.0 kW

Graph Maximum: 2000 mV/m

Theoretical
Standard
Augmented

4 Towers
14 Augmentations

Facility ID: 71087
Application ID: 624861
CDBS Antenna System ID: 78064

Theoretical pattern RMS: 663.05
Standard pattern RMS: 696.85
Augmented pattern RMS: 704.89

Azimuth	E_{theo}	E_{std}	E_{aug}
0	428.80	451.24	466.73
5	431.19	453.74	453.74
10	425.51	447.79	447.79
15	410.49	432.05	432.05
20	386.36	406.78	406.78
25	356.23	375.24	375.35
30	327.98	345.68	348.84
35	315.38	332.50	337.38
40	333.11	351.05	352.69
45	384.84	405.20	436.91
50	460.24	484.18	484.62
55	544.11	572.10	572.10
60	622.65	654.47	654.47
65	684.75	719.61	746.78
70	721.97	758.66	765.45
75	728.75	765.78	765.78
80	702.58	738.32	738.32
85	644.21	677.08	677.08
90	557.86	586.52	586.73
95	452.00	475.54	477.17
100	342.31	360.67	365.25
105	261.74	276.45	304.41
110	263.03	277.80	322.39
115	347.81	366.43	374.20
120	466.12	490.34	500.19
125	587.69	617.80	630.73
130	699.56	735.15	751.02
135	795.52	835.84	853.20
140	872.30	916.41	933.40
145	928.15	975.02	990.88
150	962.21	1010.76	1026.64
155	974.06	1023.20	1039.99
160	963.57	1012.19	1030.41
165	930.73	977.73	997.59
170	875.74	920.02	941.50
175	799.18	839.67	861.50

Azimuth	E_{theo}	E_{std}	E_{aug}
180	702.46	738.19	757.82
185	588.80	618.97	634.06
190	465.66	489.86	498.74
195	351.96	370.77	381.21
200	294.70	310.89	391.79
205	347.31	365.90	365.90
210	481.86	506.84	506.84
215	646.12	679.09	679.09
220	812.22	853.36	853.36
225	964.51	1013.18	1013.18
230	1092.08	1147.07	1147.07
235	1186.85	1246.55	1246.55
240	1243.40	1305.91	1305.91
245	1259.14	1322.44	1322.44
250	1234.50	1296.57	1296.57
255	1172.78	1231.79	1231.79
260	1079.84	1134.23	1134.23
265	963.45	1012.06	1012.06
270	832.56	874.71	874.71
275	696.58	732.02	732.02
280	564.74	593.74	593.74
285	445.91	469.17	469.17
290	348.67	367.33	367.39
295	281.12	296.70	296.96
300	247.91	262.02	262.02
305	244.52	258.49	259.64
310	258.70	273.29	277.49
315	279.47	294.97	297.34
320	301.03	317.50	317.50
325	321.38	338.78	341.89
330	340.34	358.61	372.49
335	358.30	377.41	394.92
340	375.62	395.53	424.24
345	392.22	412.92	445.10
350	407.49	428.91	458.55
355	420.24	442.27	562.56

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