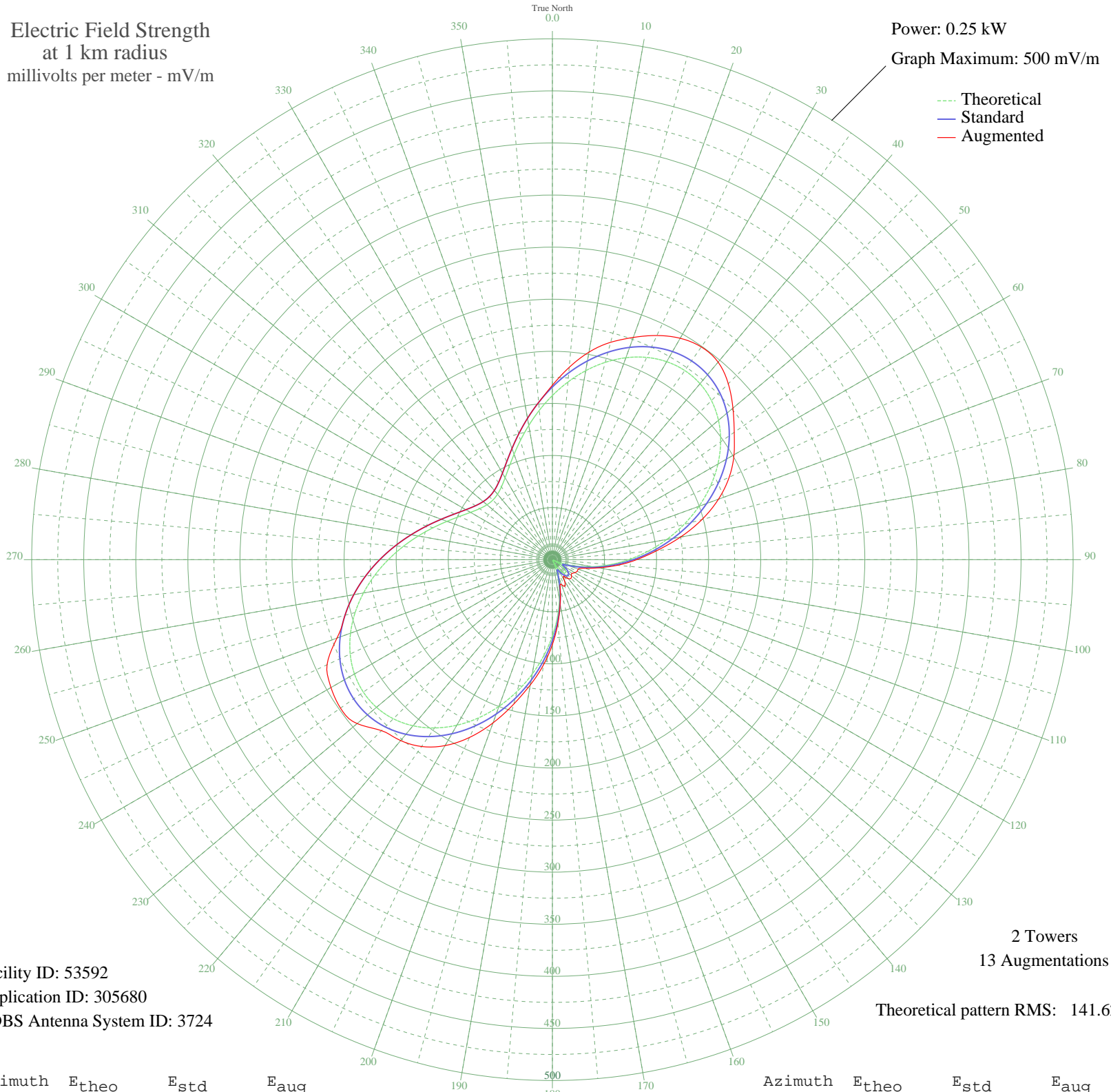


# KGMS TUCSON, AZ BL-- 940 kHz

Nighttime

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

Power: 0.25 kW  
Graph Maximum: 500 mV/m



Facility ID: 53592  
Application ID: 305680  
CDBS Antenna System ID: 3724

2 Towers  
13 Augmentations

Theoretical pattern RMS: 141.62

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	157.57	165.78	167.46
5	171.18	180.04	185.35
10	184.21	193.70	202.30
15	196.10	206.17	216.04
20	206.28	216.85	227.03
25	214.22	225.18	237.40
30	219.46	230.67	245.41
35	221.64	232.96	249.28
40	220.51	231.78	247.55
45	216.00	227.04	238.85
50	208.17	218.83	226.30
55	197.22	207.35	213.17
60	183.52	192.99	201.37
65	167.54	176.23	187.34
70	149.81	157.65	169.72
75	130.93	137.87	148.63
80	111.50	117.54	124.91
85	92.10	97.28	100.96
90	73.27	77.65	80.90
95	55.47	59.18	62.46
100	39.09	42.37	45.06
105	24.45	27.74	31.79
110	11.78	16.22	26.37
115	1.24	10.58	26.23
120	7.04	12.84	24.97
125	12.99	17.22	23.03
130	16.58	20.33	23.81
135	17.78	21.42	25.27
140	16.58	20.33	23.81
145	12.99	17.22	19.66
150	7.04	12.84	23.06
155	1.24	10.58	28.16
160	11.78	16.22	25.27
165	24.45	27.74	28.97
170	39.09	42.37	42.93
175	55.47	59.18	61.06

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	73.27	77.65	81.40
185	92.10	97.28	101.99
190	111.50	117.54	122.04
195	130.93	137.87	143.61
200	149.81	157.65	166.75
205	167.54	176.23	188.32
210	183.52	192.99	206.11
215	197.22	207.35	218.96
220	208.17	218.83	226.68
225	216.00	227.04	232.11
230	220.51	231.78	244.79
235	221.64	232.96	248.42
240	219.46	230.67	245.52
245	214.22	225.18	238.75
250	206.28	216.85	220.13
255	196.10	206.17	206.17
260	184.21	193.70	193.70
265	171.18	180.04	180.04
270	157.57	165.78	165.78
275	143.94	151.51	151.51
280	130.79	137.73	137.73
285	118.56	124.93	124.93
290	107.63	113.50	113.50
295	98.29	103.74	103.74
300	90.80	95.92	95.92
305	85.33	90.21	90.21
310	82.00	86.74	86.74
315	80.89	85.58	85.58
320	82.00	86.74	86.74
325	85.33	90.21	90.21
330	90.80	95.92	95.92
335	98.29	103.74	103.74
340	107.63	113.50	113.50
345	118.56	124.93	124.93
350	130.79	137.73	137.73
355	143.94	151.51	151.51