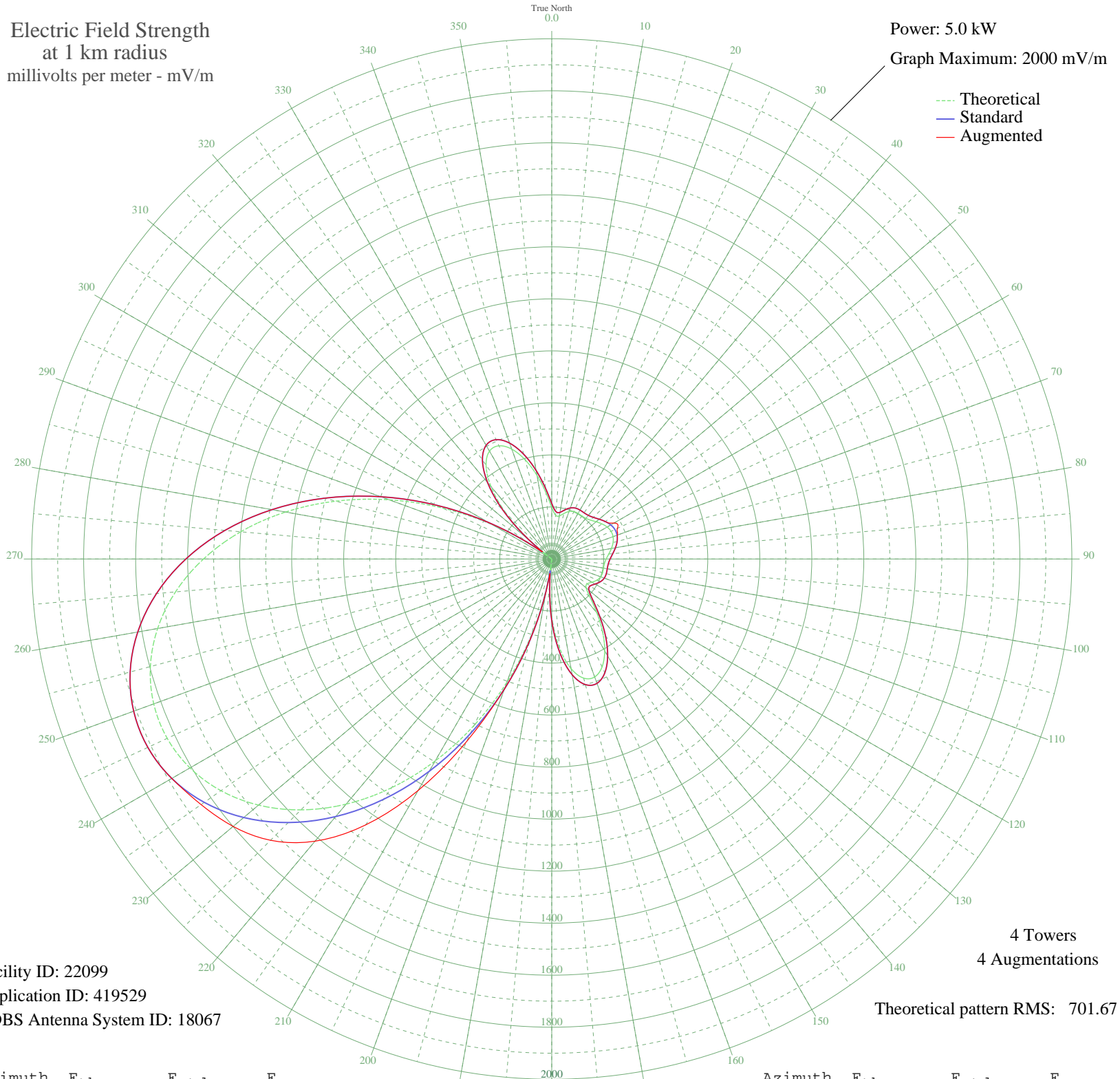


# KWHN FORT SMITH, AR BL-2816 1320 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 22099  
Application ID: 419529  
CDBS Antenna System ID: 18067

4 Towers  
4 Augmentations  
Theoretical pattern RMS: 701.67

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	198.83	213.56	213.56
5	168.89	182.95	182.95
10	167.95	181.99	181.99
15	181.23	195.53	195.53
20	194.18	208.79	208.79
25	201.03	215.82	215.82
30	202.36	217.19	217.19
35	201.96	216.78	216.78
40	204.11	218.99	218.99
45	211.24	226.31	226.31
50	222.65	238.07	238.07
55	235.40	251.23	251.23
60	245.97	262.16	276.40
65	251.63	268.01	278.68
70	250.98	267.34	269.10
75	244.18	260.31	260.31
80	232.92	248.67	248.67
85	220.15	235.49	235.49
90	209.40	224.43	224.43
95	203.32	218.17	218.17
100	201.96	216.78	216.78
105	202.38	217.21	217.21
110	200.18	214.95	214.95
115	192.01	206.56	206.56
120	178.26	192.50	192.50
125	166.41	180.42	180.42
130	172.32	186.45	186.45
135	208.45	223.45	223.45
140	269.37	286.39	286.39
145	340.33	360.17	360.17
150	407.17	429.89	429.89
155	457.89	482.88	482.88
160	482.66	508.79	508.79
165	474.17	499.91	499.91
170	428.05	451.70	451.70
175	343.21	363.17	363.17

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.

24 Oct 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	221.74	237.14	237.14
185	68.58	84.90	85.78
190	109.21	123.17	128.83
195	303.24	321.57	321.57
200	504.69	531.83	531.83
205	705.05	741.67	774.01
210	896.74	942.65	1027.59
215	1073.47	1128.04	1248.26
220	1230.37	1292.67	1416.22
225	1363.96	1432.86	1529.30
230	1471.94	1546.19	1599.39
235	1552.95	1631.22	1646.18
240	1606.27	1687.19	1687.19
245	1631.58	1713.75	1713.75
250	1628.77	1710.80	1710.80
255	1597.85	1678.34	1678.34
260	1538.95	1616.52	1616.52
265	1452.47	1525.76	1525.76
270	1339.23	1406.91	1406.91
275	1200.77	1261.61	1261.61
280	1039.58	1092.48	1092.48
285	859.42	903.51	903.51
290	665.45	700.17	700.17
295	464.23	489.51	489.51
300	263.56	280.37	280.37
305	72.07	88.03	88.03
310	101.43	115.61	115.61
315	248.77	265.05	265.05
320	363.22	384.02	384.02
325	440.39	464.59	464.59
330	478.78	504.73	504.73
335	480.18	506.19	506.19
340	449.54	474.15	474.15
345	394.74	416.91	416.91
350	326.05	345.29	345.29
355	255.89	272.42	272.42