

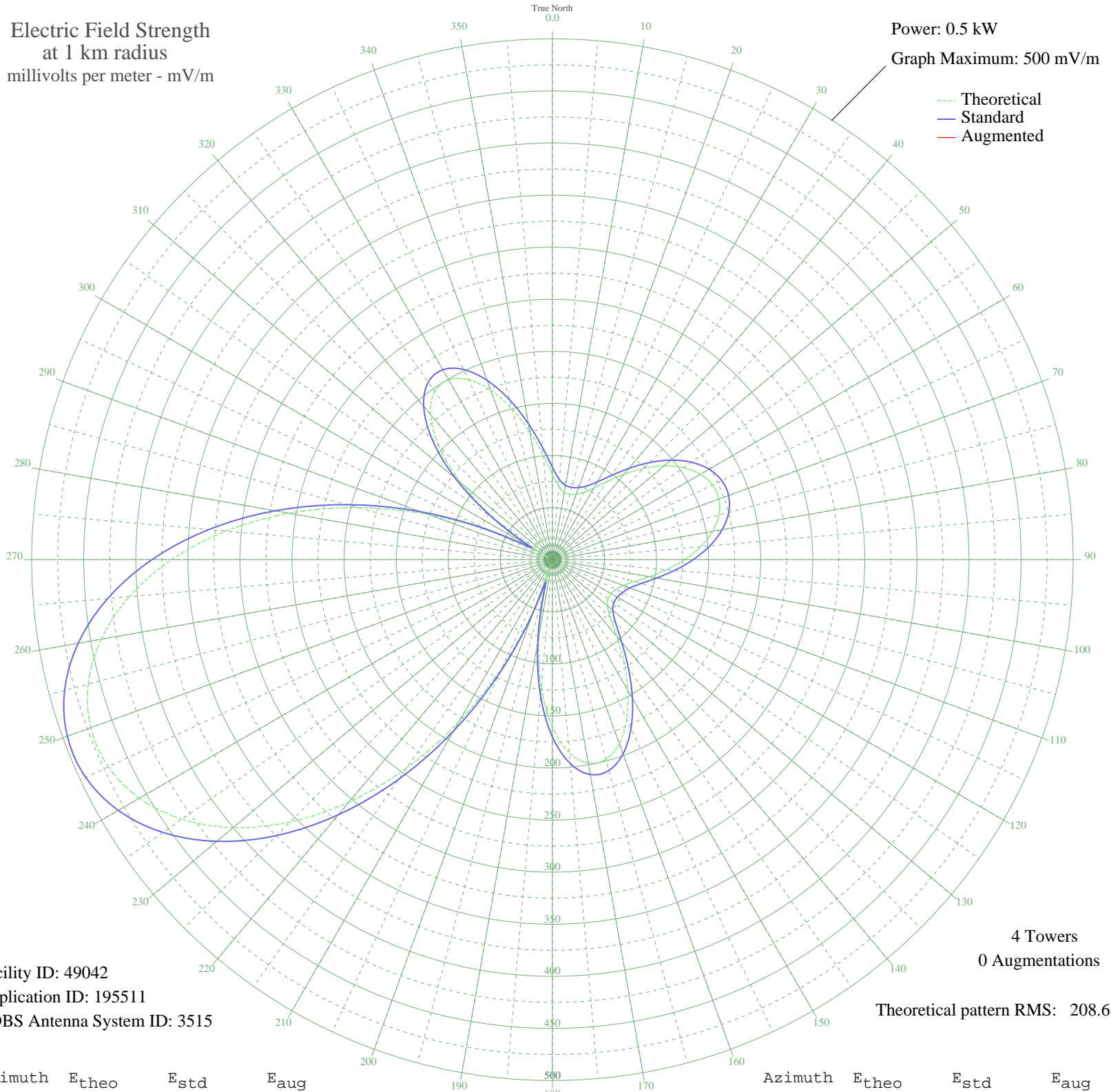
# WGNU GRANITE CITY, IL BL-19940308AA 920 kHz

Nighttime

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

Power: 0.5 kW  
Graph Maximum: 500 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 49042  
Application ID: 195511  
CDBS Antenna System ID: 3515

4 Towers  
0 Augmentations

Theoretical pattern RMS: 208.68

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	81.80	88.70	
5	70.36	77.13	
10	65.62	72.37	
15	65.06	71.81	
20	66.89	73.64	
25	71.26	78.03	
30	79.31	86.17	
35	91.50	98.60	
40	106.91	114.42	
45	123.71	131.77	
50	139.94	148.59	
55	153.84	163.04	
60	164.06	173.68	
65	169.67	179.53	
70	170.19	180.07	
75	165.57	175.25	
80	156.21	165.51	
85	142.95	151.72	
90	127.06	135.24	
95	110.22	117.83	
100	94.38	101.54	
105	81.43	88.32	
110	72.54	79.32	
115	67.53	74.28	
120	65.26	72.01	
125	65.26	72.01	
130	68.95	75.70	
135	78.91	85.76	
140	96.25	103.46	
145	119.31	127.22	
150	144.76	153.60	
155	168.80	178.61	
160	187.76	198.38	
165	198.44	209.53	
170	198.35	209.44	
175	185.92	196.47	

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	160.62	170.10	
185	122.95	130.99	
190	74.36	81.15	
195	17.00	28.44	
200	46.44	53.55	
205	113.04	120.74	
210	179.88	190.16	
215	244.21	257.38	
220	303.63	319.58	
225	356.12	374.58	
230	400.08	420.66	
235	434.30	456.55	
240	457.94	481.34	
245	470.46	494.48	
250	471.61	495.68	
255	461.34	484.92	
260	439.89	462.42	
265	407.73	428.69	
270	365.64	384.56	
275	314.74	331.22	
280	256.56	270.30	
285	193.03	203.88	
290	126.48	134.64	
295	59.60	66.38	
300	4.72	22.68	
305	63.51	70.26	
310	114.05	121.78	
315	154.04	163.25	
320	181.89	192.26	
325	196.88	207.91	
330	199.34	210.48	
335	190.65	201.40	
340	173.10	183.10	
345	149.80	158.84	
350	124.33	132.41	
355	100.50	107.82	