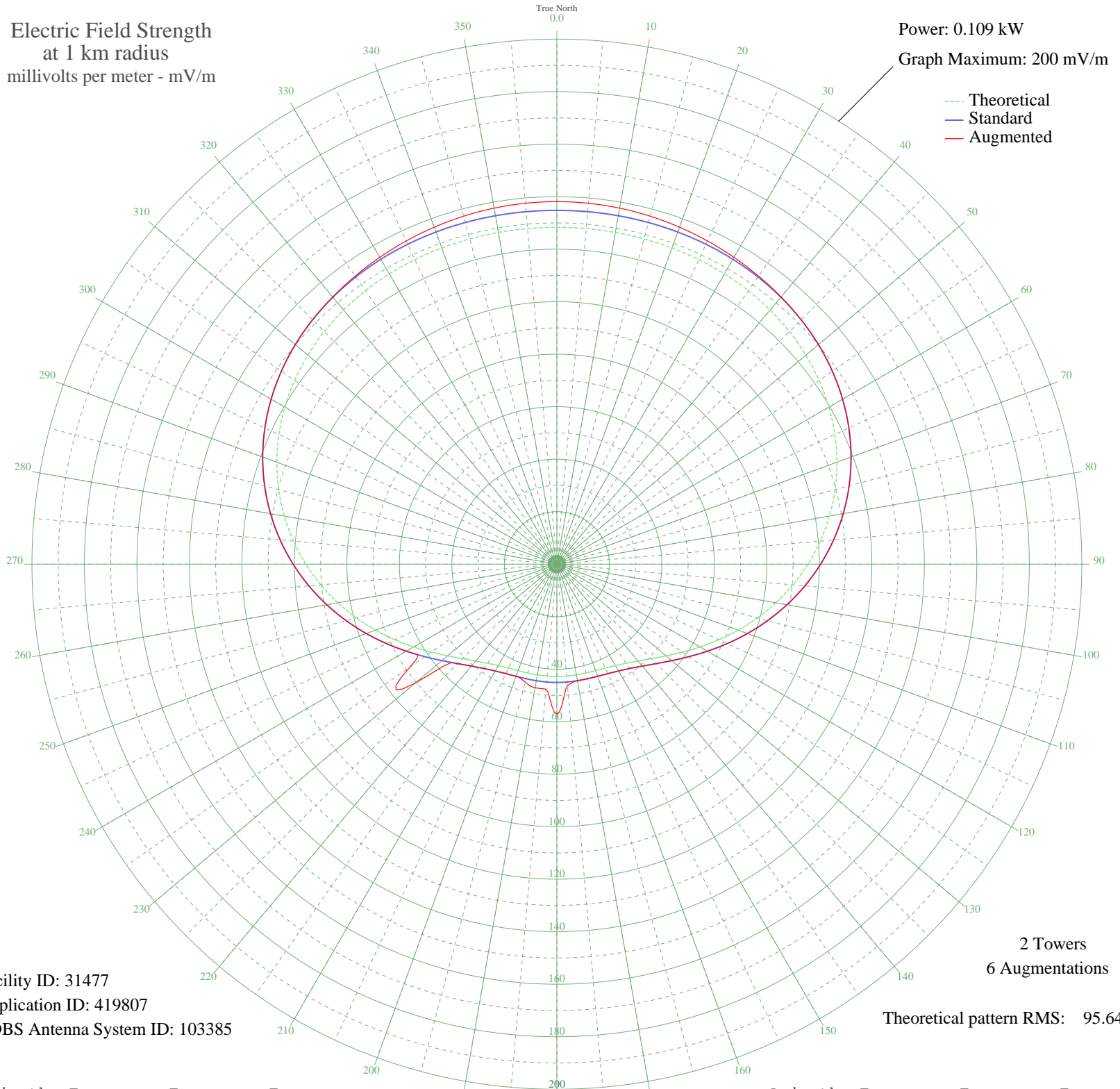


# WIOS TAWAS CITY-EAST TAWA, MI BL-- 1480 kHz

Nighttime

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

Power: 0.109 kW  
Graph Maximum: 200 mV/m



Facility ID: 31477  
Application ID: 419807  
CDBS Antenna System ID: 103385

2 Towers  
6 Augmentations  
Theoretical pattern RMS: 95.64

Azimuth	Etheo	Estd	Eaug
0	128.31	134.77	138.10
5	128.31	134.77	138.00
10	128.31	134.77	137.71
15	128.27	134.73	137.23
20	128.19	134.64	136.60
25	128.01	134.45	135.84
30	127.68	134.11	134.96
35	127.17	133.57	133.97
40	126.40	132.76	132.86
45	125.31	131.63	131.63
50	123.87	130.10	130.10
55	122.00	128.14	128.14
60	119.67	125.70	125.70
65	116.86	122.75	122.75
70	113.54	119.27	119.27
75	109.73	115.27	115.27
80	105.44	110.77	110.77
85	100.73	105.82	105.82
90	95.64	100.48	100.48
95	90.27	94.84	94.84
100	84.71	89.01	89.01
105	79.08	83.10	83.10
110	73.50	77.25	77.25
115	68.10	71.59	71.59
120	63.03	66.27	66.27
125	58.40	61.42	61.42
130	54.33	57.15	57.15
135	50.89	53.55	53.55
140	48.15	50.67	50.67
145	46.07	48.50	48.50
150	44.62	46.98	46.98
155	43.69	46.00	46.00
160	43.15	45.44	45.44
165	42.89	45.17	45.17
170	42.80	45.07	45.07
175	42.77	45.05	46.44

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.

14 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission

Azimuth	Etheo	Estd	Eaug
180	42.77	45.04	57.18
185	42.77	45.05	47.79
190	42.80	45.07	47.80
195	42.89	45.17	46.55
200	43.15	45.44	45.44
205	43.69	46.00	46.00
210	44.62	46.98	46.98
215	46.07	48.50	48.50
220	48.15	50.67	50.67
225	50.89	53.55	53.55
230	54.33	57.15	70.43
235	58.40	61.42	68.31
240	63.03	66.27	66.27
245	68.10	71.59	71.59
250	73.50	77.25	77.25
255	79.08	83.10	83.10
260	84.71	89.01	89.01
265	90.27	94.84	94.84
270	95.64	100.48	100.48
275	100.73	105.82	105.82
280	105.44	110.77	110.77
285	109.73	115.27	115.27
290	113.54	119.27	119.27
295	116.86	122.75	122.75
300	119.67	125.70	125.70
305	122.00	128.14	128.14
310	123.87	130.10	130.10
315	125.31	131.63	131.63
320	126.40	132.76	132.86
325	127.17	133.57	133.97
330	127.68	134.11	134.96
335	128.01	134.45	135.84
340	128.19	134.64	136.60
345	128.27	134.73	137.23
350	128.31	134.77	137.71
355	128.31	134.77	138.00