

CHARLES A. HECHT & ASSOCIATES, INC.
BROADCAST ENGINEERING CONSULTANTS

TABLE 1
NIGHTTIME MODIFIED STANDARD RADIATION PATTERN DATA
1010 KILOHERTZ 30 KILOWATT DA
SEVEN BRIDGES RADIO, LLC
JACKSONVILLE BEACH, FLORIDA

MODIFIED STANDARD RADIATION
(at One Kilometer)

Azimuth Angle (deg)	-----Elevation Angle in Degrees-----						
	0 (mV/m)	5 (mV/m)	10 (mV/m)	15 (mV/m)	20 (mV/m)	25 (mV/m)	30 (mV/m)
0	97.9	95.7	95.4	105.	118.	121.	104.
5	97.6	88.8	71.9	71.6	90.3	102.	91.1
10	119.	107.	80.0	65.3	79.7	93.0	84.4
15	121.	109.	80.8	63.9	75.9	87.0	76.5
20	102.	92.7	72.2	65.0	77.0	81.8	67.0
25	83.2	78.8	72.7	76.0	82.5	77.1	61.2
30	92.7	92.4	92.8	93.4	88.5	76.4	78.1
35	78.7	78.6	77.5	73.5	68.8	81.2	126.
40	81.4	81.7	84.0	94.4	122.	170.	233.
45	169.	175.	194.	227.	275.	335.	396.
50	415.	423.	447.	484.	531.	581.	622.
55	824.	831.	848.	872.	897.	914.	914.
60	1403.	1403.	1402.	1394.	1374.	1335.	1270.
65	2139.	2128.	2095.	2037.	1950.	1831.	1677.
70	2995.	2969.	2894.	2768.	2594.	2375.	2117.
75	3906.	3864.	3739.	3535.	3263.	2932.	2560.
80	4791.	4731.	4554.	4271.	3898.	3457.	2971.
85	5556.	5480.	5257.	4902.	4439.	3899.	3316.
90	6113.	6025.	5767.	5358.	4828.	4215.	3559.
95	6394.	6299.	6022.	5585.	5021.	4370.	3678.
100	6361.	6267.	5991.	5556.	4994.	4347.	3658.
105	6017.	5930.	5675.	5272.	4750.	4146.	3500.
110	5403.	5328.	5111.	4765.	4314.	3788.	3221.
115	4592.	4534.	4364.	4092.	3734.	3311.	2847.
120	3675.	3635.	3517.	3327.	3071.	2761.	2412.
125	2749.	2726.	2657.	2544.	2387.	2188.	1954.
130	1897.	1888.	1861.	1813.	1740.	1639.	1509.
135	1184.	1185.	1187.	1186.	1177.	1151.	1104.
140	646.	652.	669.	695.	724.	748.	760.
145	292.	299.	318.	351.	393.	441.	486.
150	118.	120.	129.	149.	182.	229.	285.
155	137.	135.	130.	124.	120.	131.	164.
160	105.	101.	92.0	83.6	76.5	70.8	81.3
165	149.	138.	108.	75.6	59.1	53.9	48.0
170	239.	221.	173.	113.	66.0	51.8	47.3
175	319.	297.	238.	159.	86.3	50.7	48.3

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	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)
0	72.8	64.6	101.	141.	159.	151.
5	62.9	58.1	100.	143.	162.	154.
10	58.6	61.4	108.	151.	170.	160.
15	54.1	71.4	123.	165.	182.	169.
20	54.8	91.5	147.	187.	199.	180.
25	73.7	126.	182.	217.	221.	195.
30	119.	179.	231.	257.	250.	212.
35	189.	251.	294.	306.	283.	232.
40	298.	350.	375.	366.	324.	256.
45	448.	478.	476.	439.	370.	282.
50	644.	637.	596.	522.	422.	311.
55	887.	827.	735.	615.	479.	341.
60	1173.	1044.	888.	715.	538.	373.
65	1492.	1280.	1051.	819.	598.	404.
70	1829.	1524.	1216.	922.	657.	433.
75	2163.	1761.	1373.	1019.	711.	460.
80	2469.	1975.	1514.	1104.	758.	483.
85	2722.	2151.	1627.	1172.	795.	501.
90	2900.	2273.	1705.	1217.	819.	513.
95	2985.	2330.	1741.	1238.	830.	517.
100	2969.	2317.	1732.	1231.	826.	515.
105	2852.	2235.	1678.	1198.	807.	506.
110	2645.	2090.	1582.	1140.	775.	489.
115	2366.	1894.	1454.	1062.	731.	467.
120	2040.	1663.	1300.	967.	678.	441.
125	1692.	1414.	1133.	863.	618.	410.
130	1348.	1163.	961.	754.	555.	378.
135	1029.	925.	795.	646.	492.	345.
140	749.	710.	641.	544.	430.	312.
145	518.	526.	504.	451.	373.	280.
150	338.	376.	389.	370.	321.	251.
155	214.	264.	297.	302.	277.	226.
160	121.	174.	220.	243.	236.	201.
165	64.5	112.	163.	197.	203.	181.
170	42.0	71.7	121.	161.	177.	164.
175	39.0	48.3	92.3	135.	156.	150.

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180	369.	345.	280.	191.	105.	52.4	48.2
185	378.	354.	289.	199.	109.	53.0	48.7
190	346.	324.	263.	180.	98.0	50.6	51.2
195	279.	260.	209.	139.	75.2	50.2	55.8
200	192.	177.	139.	90.1	56.9	58.1	61.5
205	106.	97.4	77.5	61.9	64.3	71.2	64.9
210	71.2	71.4	73.9	80.1	84.9	80.5	62.4
215	105.	105.	106.	104.	96.4	78.7	52.6
220	129.	127.	121.	109.	89.7	64.5	44.9
225	121.	118.	107.	90.4	69.6	55.2	66.3
230	137.	134.	126.	115.	108.	113.	131.
235	126.	126.	127.	131.	142.	161.	185.
240	170.	172.	178.	189.	206.	225.	246.
245	242.	244.	250.	261.	276.	292.	307.
250	287.	290.	298.	311.	327.	343.	355.
255	290.	295.	307.	326.	349.	371.	386.
260	248.	255.	275.	305.	340.	374.	399.
265	171.	181.	210.	255.	307.	357.	395.
270	203.	205.	217.	248.	297.	350.	395.
275	203.	197.	191.	207.	255.	318.	374.
280	147.	131.	94.2	97.1	170.	258.	334.
285	180.	161.	114.	84.9	144.	234.	314.
290	178.	160.	112.	77.0	129.	217.	297.
295	149.	133.	92.6	68.8	124.	207.	282.
300	116.	103.	74.0	70.3	125.	199.	266.
305	144.	138.	124.	123.	151.	202.	255.
310	113.	108.	96.3	96.6	124.	172.	223.
315	136.	130.	117.	107.	116.	148.	192.
320	161.	155.	140.	120.	109.	123.	157.
325	188.	182.	164.	139.	113.	103.	122.
330	210.	204.	188.	162.	129.	99.8	95.7
335	309.	304.	288.	262.	228.	189.	157.
340	238.	235.	226.	209.	182.	146.	110.
345	181.	181.	180.	174.	159.	131.	93.7
350	136.	139.	145.	150.	147.	130.	98.8
355	93.2	96.5	107.	120.	130.	124.	100.

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	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)
180	41.4	36.8	73.4	116.	141.	140.
185	44.0	32.5	62.1	104.	131.	132.
190	46.1	31.3	56.8	98.0	125.	127.
195	47.3	30.9	56.4	96.7	122.	124.
200	46.7	31.5	60.9	99.9	123.	124.
205	43.3	35.5	70.4	107.	128.	126.
210	37.8	46.5	85.3	119.	135.	129.
215	38.9	67.0	106.	135.	145.	134.
220	59.7	96.7	132.	154.	157.	140.
225	98.6	134.	162.	176.	170.	147.
230	158.	183.	200.	202.	187.	157.
235	209.	227.	234.	226.	202.	165.
240	263.	272.	268.	249.	216.	172.
245	316.	315.	301.	272.	231.	180.
250	360.	352.	330.	293.	244.	187.
255	391.	381.	354.	311.	256.	194.
260	409.	400.	371.	325.	265.	200.
265	414.	410.	383.	334.	272.	204.
270	420.	420.	393.	345.	281.	212.
275	409.	416.	394.	347.	284.	214.
280	384.	400.	384.	341.	279.	209.
285	368.	389.	377.	337.	277.	208.
290	352.	376.	367.	330.	273.	206.
295	335.	360.	354.	320.	267.	203.
300	316.	341.	338.	309.	260.	199.
305	298.	321.	321.	296.	252.	196.
310	266.	292.	297.	278.	240.	189.
315	233.	262.	272.	261.	229.	183.
320	196.	229.	246.	242.	218.	177.
325	159.	195.	218.	223.	206.	171.
330	124.	162.	192.	204.	194.	165.
335	147.	162.	185.	198.	193.	169.
340	94.8	116.	150.	174.	177.	158.
345	67.2	85.6	126.	157.	166.	152.
350	65.8	71.7	112.	147.	161.	150.
355	67.0	63.8	103.	141.	158.	149.