

TABULATION OF TERRAIN DATA
AND DISTANCES TO CONTOUR FOR
PROPOSED CHANNEL 283
DURHAM, NORTH CAROLINA

Azimuth (deg)	3.2-16.1 km Average Elevation (based on U.S.G.S. 3-Sec. NED Data)(m)	HAAT (m)	Antenna Azimuth Pattern Relative Field	ERP (kW)	54 dBu F(50,10) Distance (km)	40 dBu F(50,10) Distance (km)
0	192.2	163.8	0.410	0.032	14.0	33.3
5	186.3	169.7	0.506	0.049	16.3	37.5
10	174.8	181.2	0.598	0.068	18.8	41.7
15	167.3	188.7	0.682	0.088	20.7	45.2
20	174.0	182.0	0.757	0.109	21.4	46.6
25	168.9	187.1	0.817	0.127	22.6	48.9
30	164.9	191.1	0.870	0.144	23.6	50.8
35	157.6	198.4	0.914	0.159	24.6	52.7
40	161.2	194.8	0.950	0.172	24.8	53.2
45	157.9	198.1	0.976	0.181	25.4	54.1
50	146.8	209.2	0.995	0.188	26.3	55.8
55	133.8	222.2	0.996	0.188	27.1	57.2
60	127.0	229.0	0.980	0.183	27.2	57.6
65	135.9	220.1	0.956	0.174	26.4	56.1
70	136.1	219.9	0.934	0.166	26.1	55.6
75	125.3	230.7	0.917	0.160	26.5	56.3
80	131.1	224.9	0.894	0.152	25.8	55.1
85	133.4	222.6	0.863	0.142	25.3	54.1
90	136.2	219.8	0.828	0.130	24.6	52.9
95	137.3	218.7	0.786	0.117	23.9	51.7
100	135.8	220.2	0.740	0.104	23.3	50.6
105	135.8	220.2	0.689	0.090	22.5	49.0
110	137.9	218.1	0.635	0.077	21.5	47.0
115	138.3	217.7	0.578	0.063	20.4	45.0
120	138.6	217.4	0.536	0.055	19.6	43.4
125	142.2	213.8	0.519	0.051	19.1	42.4
130	142.9	213.1	0.508	0.049	18.8	41.9
135	147.0	209.0	0.508	0.049	18.6	41.5
140	149.8	206.2	0.515	0.050	18.6	41.5
145	147.8	208.2	0.533	0.054	19.1	42.3
150	149.4	206.6	0.566	0.061	19.6	43.4
155	150.6	205.4	0.624	0.074	20.6	45.2
160	144.6	211.4	0.679	0.087	21.9	47.7
165	146.2	209.8	0.730	0.101	22.6	49.1
170	151.6	204.4	0.778	0.115	23.0	49.8
175	147.4	208.6	0.820	0.128	23.9	51.5
180	151.8	204.2	0.857	0.140	24.2	52.0
185	145.9	210.1	0.888	0.150	24.9	53.4

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190	147.0	209.0	0.913	0.158	25.2	53.9
195	151.4	204.6	0.931	0.165	25.2	53.8
200	152.5	203.5	0.951	0.172	25.4	54.2
205	155.0	201.0	0.975	0.181	25.5	54.4
210	154.8	201.2	0.994	0.188	25.8	54.9
215	155.5	200.5	0.997	0.189	25.8	54.9
220	158.7	197.3	0.982	0.183	25.4	54.2
225	153.3	202.7	0.956	0.174	25.4	54.2
230	155.4	200.6	0.923	0.162	24.8	53.2
235	159.3	196.7	0.879	0.147	24.0	51.6
240	158.3	197.7	0.829	0.131	23.4	50.5
245	160.5	195.5	0.769	0.112	22.4	48.5
250	163.1	192.9	0.699	0.093	21.2	46.1
255	164.3	191.7	0.615	0.072	19.7	43.4
260	162.9	193.1	0.526	0.052	18.1	40.5
265	166.4	189.6	0.430	0.035	15.8	36.5
270	162.4	193.6	0.341	0.022	13.9	33.0
275	159.6	196.4	0.265	0.013	12.4	29.3
280	152.4	203.6	0.206	0.008	11.1	26.4
285	155.9	200.1	0.172	0.006	10.1	24.0
290	161.3	194.7	0.139	0.004	9.0	21.2
295	155.7	200.3	0.105	0.002	7.8	18.5
300	159.6	196.4	0.083	0.001	6.8	15.8
305	164.7	191.3	0.077	0.001	6.5	14.6
310	171.8	184.2	0.073	0.001	6.2	14.0
315	174.7	181.3	0.073	0.001	6.2	13.9
320	172.2	183.8	0.075	0.001	6.3	14.2
325	171.5	184.5	0.081	0.001	6.6	15.0
330	173.2	182.8	0.098	0.002	7.2	16.9
335	176.1	179.9	0.132	0.003	8.4	19.8
340	177.0	179.0	0.165	0.005	9.4	22.3
345	175.1	180.9	0.199	0.008	10.4	24.6
350	181.0	175.0	0.250	0.012	11.4	27.0
355	186.0	170.0	0.326	0.020	12.8	30.3