

*** Heights are relative to the antenna feed horn height**

Elevation Angle (deg) 0.48			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	8.5	16.6	0.2
2	17.1	33.2	0.6
3	25.9	49.7	1.0
4	34.8	66.3	1.6
5	43.8	82.9	2.4
6	53.0	99.5	3.2
7	62.2	116.1	4.2
8	71.6	132.6	5.3
9	81.2	149.2	6.6
10	90.9	165.8	8.0
11	100.7	182.4	9.5
12	110.6	199.0	11.1
13	120.6	215.5	12.9
14	130.8	232.1	14.8
15	141.1	248.7	16.8
16	151.6	265.3	19.0
17	162.2	281.9	21.3
18	172.9	298.4	23.7
19	183.7	315.0	26.2
20	194.7	331.6	28.9
21	205.8	348.2	31.7
22	217.0	364.8	34.6
23	228.4	381.3	37.7
24	239.8	397.9	40.9
25	251.5	414.5	44.2
26	263.2	431.1	47.7
27	275.1	447.7	51.3
28	287.1	464.2	55.0
29	299.2	480.8	58.8
30	311.5	497.4	62.8
31	323.9	514.0	66.9
32	336.4	530.6	71.2
33	349.0	547.1	75.5
34	361.8	563.7	80.0
35	374.7	580.3	84.6
36	387.8	596.9	89.4
37	401.0	613.5	94.3
38	414.3	630.0	99.3
39	427.7	646.6	104.4
40	441.2	663.2	109.7
41	454.9	679.8	115.1
42	468.8	696.4	120.6
43	482.7	712.9	126.3
44	496.8	729.5	132.1
45	511.0	746.1	138.0
46	525.3	762.7	144.1
47	539.8	779.3	150.2
48	554.4	795.8	156.5
49	569.1	812.4	163.0
50	584.0	829.0	169.5
51	599.0	845.6	176.2
52	614.1	862.2	183.1
53	629.3	878.7	190.0
54	644.7	895.3	197.1
55	660.2	911.9	204.3
56	675.9	928.5	211.7
57	691.6	945.1	219.2
58	707.5	961.6	226.8
59	723.5	978.2	234.5
60	739.7	994.8	242.4

Elevation Angle (deg) 0.88			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	15.4	16.6	7.1
2	30.9	33.2	14.4
3	46.6	49.7	21.7
4	62.4	66.3	29.2
5	78.3	82.9	36.9
6	94.4	99.5	44.6
7	110.6	116.1	52.5
8	126.9	132.6	60.6
9	143.3	149.2	68.7
10	159.9	165.8	77.0
11	176.6	182.4	85.4
12	193.4	199.0	93.9
13	210.4	215.5	102.6
14	227.5	232.1	111.4
15	244.7	248.7	120.3
16	262.0	265.3	129.4
17	279.5	281.9	138.6
18	297.1	298.4	147.9
19	314.9	315.0	157.4
20	332.7	331.6	167.0
21	350.7	348.2	176.7
22	368.9	364.8	186.5
23	387.1	381.3	196.5
24	405.5	397.9	206.6
25	424.0	414.5	216.8
26	442.7	431.1	227.2
27	461.4	447.7	237.6
28	480.3	464.2	248.3
29	499.4	480.8	259.0
30	518.5	497.4	269.9
31	537.8	514.0	280.9
32	557.3	530.6	292.0
33	576.8	547.1	303.3
34	596.5	563.7	314.7
35	616.3	580.3	326.2
36	636.3	596.9	337.9
37	656.3	613.5	349.7
38	676.5	630.0	361.6
39	696.9	646.6	373.6
40	717.3	663.2	385.8
41	737.9	679.8	398.1
42	758.7	696.4	410.5
43	779.5	712.9	423.1
44	800.5	729.5	435.8
45	821.6	746.1	448.6
46	842.8	762.7	461.6
47	864.2	779.3	474.6
48	885.7	795.8	487.9
49	907.3	812.4	501.2
50	929.1	829.0	514.7
51	951.0	845.6	528.3
52	973.0	862.2	542.0
53	995.2	878.7	555.9
54	1017.4	895.3	569.8
55	1039.9	911.9	584.0
56	1062.4	928.5	598.2
57	1085.1	945.1	612.6
58	1107.9	961.6	627.1
59	1130.8	978.2	641.7
60	1153.8	994.8	656.5

*** Heights are relative to the antenna feed horn height**

*** Heights are relative to the antenna feed horn height**

Elevation Angle (deg) 1.27				Elevation Angle (deg) 1.76			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*	Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	22.3	16.6	14.0	1	30.7	16.6	22.5
2	44.7	33.2	28.2	2	61.6	33.2	45.0
3	67.3	49.7	42.4	3	92.6	49.7	67.7
4	90.0	66.3	56.8	4	123.7	66.3	90.6
5	112.8	82.9	71.4	5	155.0	82.9	113.6
6	135.8	99.5	86.0	6	186.4	99.5	136.6
7	158.9	116.1	100.8	7	217.9	116.1	159.9
8	182.1	132.6	115.8	8	249.5	132.6	183.2
9	205.4	149.2	130.8	9	281.3	149.2	206.7
10	228.9	165.8	146.0	10	313.2	165.8	230.3
11	252.5	182.4	161.3	11	345.3	182.4	254.1
12	276.2	199.0	176.8	12	377.4	199.0	278.0
13	300.1	215.5	192.3	13	409.7	215.5	302.0
14	324.1	232.1	208.0	14	442.2	232.1	326.1
15	348.2	248.7	223.9	15	474.7	248.7	350.4
16	372.5	265.3	239.8	16	507.4	265.3	374.8
17	396.8	281.9	255.9	17	540.2	281.9	399.3
18	421.3	298.4	272.1	18	573.2	298.4	424.0
19	446.0	315.0	288.5	19	606.2	315.0	448.7
20	470.8	331.6	305.0	20	639.4	331.6	473.7
21	495.7	348.2	321.6	21	672.8	348.2	498.7
22	520.7	364.8	338.3	22	706.2	364.8	523.9
23	545.8	381.3	355.2	23	739.8	381.3	549.2
24	571.1	397.9	372.2	24	773.5	397.9	574.6
25	596.6	414.5	389.3	25	807.4	414.5	600.2
26	622.1	431.1	406.6	26	841.4	431.1	625.9
27	647.8	447.7	424.0	27	875.5	447.7	651.7
28	673.6	464.2	441.5	28	909.7	464.2	677.7
29	699.5	480.8	459.2	29	944.1	480.8	703.7
30	725.6	497.4	476.9	30	978.6	497.4	729.9
31	751.8	514.0	494.8	31	1013.2	514.0	756.3
32	778.1	530.6	512.9	32	1048.0	530.6	782.8
33	804.6	547.1	531.0	33	1082.9	547.1	809.4
34	831.2	563.7	549.3	34	1117.9	563.7	836.1
35	857.9	580.3	567.8	35	1153.1	580.3	863.0
36	884.7	596.9	586.3	36	1188.3	596.9	889.9
37	911.7	613.5	605.0	37	1223.8	613.5	917.1
38	938.8	630.0	623.8	38	1259.3	630.0	944.3
39	966.0	646.6	642.8	39	1295.0	646.6	971.7
40	993.4	663.2	661.8	40	1330.8	663.2	999.2
41	1020.9	679.8	681.1	41	1366.7	679.8	1026.8
42	1048.5	696.4	700.4	42	1402.7	696.4	1054.6
43	1076.3	712.9	719.9	43	1438.9	712.9	1082.5
44	1104.2	729.5	739.5	44	1475.3	729.5	1110.5
45	1132.2	746.1	759.2	45	1511.7	746.1	1138.7
46	1160.3	762.7	779.0	46	1548.3	762.7	1167.0
47	1188.6	779.3	799.0	47	1585.0	779.3	1195.4
48	1217.0	795.8	819.1	48	1621.8	795.8	1224.0
49	1245.5	812.4	839.4	49	1658.8	812.4	1252.6
50	1274.2	829.0	859.7	50	1695.9	829.0	1281.4
51	1303.0	845.6	880.2	51	1733.1	845.6	1310.4
52	1331.9	862.2	900.9	52	1770.5	862.2	1339.4
53	1360.9	878.7	921.6	53	1807.9	878.7	1368.6
54	1390.1	895.3	942.5	54	1845.6	895.3	1398.0
55	1419.4	911.9	963.6	55	1883.3	911.9	1427.4
56	1448.9	928.5	984.7	56	1921.2	928.5	1457.0
57	1478.4	945.1	1006.0	57	1959.2	945.1	1486.7
58	1508.1	961.6	1027.4	58	1997.3	961.6	1516.6
59	1538.0	978.2	1048.9	59	2035.6	978.2	1546.5
60	1567.9	994.8	1070.6	60	2074.0	994.8	1576.6

*** Heights are relative to the antenna feed horn height**

*** Heights are relative to the antenna feed horn height**

Elevation Angle (deg) 2.37				Elevation Angle (deg) 3.08			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*	Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	41.5	16.6	33.2	1	53.7	16.6	45.4
2	83.1	33.2	66.5	2	107.6	33.2	91.0
3	124.8	49.7	99.9	3	161.6	49.7	136.7
4	166.7	66.3	133.5	4	215.7	66.3	182.5
5	208.6	82.9	167.2	5	269.9	82.9	228.5
6	250.8	99.5	201.0	6	324.3	99.5	274.6
7	293.0	116.1	235.0	7	378.8	116.1	320.8
8	335.4	132.6	269.1	8	433.5	132.6	367.2
9	377.9	149.2	303.3	9	488.2	149.2	413.6
10	420.5	165.8	337.6	10	543.1	165.8	460.2
11	463.3	182.4	372.1	11	598.2	182.4	507.0
12	506.2	199.0	406.7	12	653.3	199.0	553.8
13	549.2	215.5	441.5	13	708.6	215.5	600.8
14	592.4	232.1	476.3	14	764.0	232.1	648.0
15	635.7	248.7	511.3	15	819.6	248.7	695.2
16	679.1	265.3	546.5	16	875.2	265.3	742.6
17	722.6	281.9	581.7	17	931.0	281.9	790.1
18	766.3	298.4	617.1	18	987.0	298.4	837.8
19	810.1	315.0	652.6	19	1043.0	315.0	885.5
20	854.0	331.6	688.3	20	1099.2	331.6	933.4
21	898.1	348.2	724.0	21	1155.5	348.2	981.5
22	942.3	364.8	759.9	22	1212.0	364.8	1029.6
23	986.6	381.3	796.0	23	1268.6	381.3	1077.9
24	1031.1	397.9	832.1	24	1325.3	397.9	1126.4
25	1075.7	414.5	868.4	25	1382.1	414.5	1174.9
26	1120.4	431.1	904.9	26	1439.1	431.1	1223.6
27	1165.2	447.7	941.4	27	1496.2	447.7	1272.4
28	1210.2	464.2	978.1	28	1553.4	464.2	1321.4
29	1255.3	480.8	1014.9	29	1610.8	480.8	1370.4
30	1300.5	497.4	1051.9	30	1668.3	497.4	1419.6
31	1345.9	514.0	1088.9	31	1725.9	514.0	1469.0
32	1391.4	530.6	1126.1	32	1783.7	530.6	1518.4
33	1437.0	547.1	1163.5	33	1841.5	547.1	1568.0
34	1482.7	563.7	1200.9	34	1899.6	563.7	1617.7
35	1528.6	580.3	1238.5	35	1957.7	580.3	1667.6
36	1574.6	596.9	1276.2	36	2016.0	596.9	1717.6
37	1620.8	613.5	1314.1	37	2074.4	613.5	1767.7
38	1667.0	630.0	1352.1	38	2132.9	630.0	1817.9
39	1713.4	646.6	1390.2	39	2191.5	646.6	1868.3
40	1760.0	663.2	1428.4	40	2250.3	663.2	1918.8
41	1806.6	679.8	1466.8	41	2309.3	679.8	1969.4
42	1853.4	696.4	1505.3	42	2368.3	696.4	2020.2
43	1900.3	712.9	1543.9	43	2427.5	712.9	2071.1
44	1947.4	729.5	1582.7	44	2486.8	729.5	2122.1
45	1994.6	746.1	1621.6	45	2546.2	746.1	2173.2
46	2041.9	762.7	1660.6	46	2605.8	762.7	2224.5
47	2089.3	779.3	1699.7	47	2665.5	779.3	2275.9
48	2136.9	795.8	1739.0	48	2725.3	795.8	2327.4
49	2184.6	812.4	1778.4	49	2785.3	812.4	2379.1
50	2232.4	829.0	1818.0	50	2845.4	829.0	2430.9
51	2280.3	845.6	1857.6	51	2905.6	845.6	2482.8
52	2328.4	862.2	1897.4	52	2965.9	862.2	2534.9
53	2376.6	878.7	1937.3	53	3026.4	878.7	2587.1
54	2425.0	895.3	1977.4	54	3087.0	895.3	2639.4
55	2473.5	911.9	2017.6	55	3147.7	911.9	2691.8
56	2522.1	928.5	2057.9	56	3208.6	928.5	2744.4
57	2570.8	945.1	2098.3	57	3269.6	945.1	2797.1
58	2619.7	961.6	2138.9	58	3330.7	961.6	2850.0
59	2668.7	978.2	2179.6	59	3392.0	978.2	2902.9
60	2717.8	994.8	2220.5	60	3453.3	994.8	2956.0

*** Heights are relative to the antenna feed horn height**

*** Heights are relative to the antenna feed horn height**

Elevation Angle (deg) 4.00				Elevation Angle (deg) 5.10			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*	Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	69.8	16.6	61.5	1	88.9	16.6	80.6
2	139.7	33.2	123.2	2	178.0	33.2	161.4
3	209.8	49.7	184.9	3	267.1	49.7	242.3
4	280.0	66.3	246.8	4	356.5	66.3	323.3
5	350.3	82.9	308.9	5	445.9	82.9	404.4
6	420.8	99.5	371.0	6	535.5	99.5	485.7
7	491.4	116.1	433.3	7	625.2	116.1	567.1
8	562.1	132.6	495.8	8	715.0	132.6	648.7
9	632.9	149.2	558.3	9	804.9	149.2	730.3
10	703.9	165.8	621.0	10	895.0	165.8	812.1
11	775.0	182.4	683.8	11	985.2	182.4	894.1
12	846.2	199.0	746.7	12	1075.6	199.0	976.1
13	917.6	215.5	809.8	13	1166.1	215.5	1058.3
14	989.1	232.1	873.0	14	1256.7	232.1	1140.6
15	1060.7	248.7	936.3	15	1347.4	248.7	1223.1
16	1132.4	265.3	999.8	16	1438.3	265.3	1305.7
17	1204.3	281.9	1063.4	17	1529.3	281.9	1388.4
18	1276.3	298.4	1127.1	18	1620.4	298.4	1471.2
19	1348.5	315.0	1191.0	19	1711.6	315.0	1554.2
20	1420.7	331.6	1254.9	20	1803.0	331.6	1637.3
21	1493.1	348.2	1319.1	21	1894.5	348.2	1720.5
22	1565.7	364.8	1383.3	22	1986.2	364.8	1803.8
23	1638.3	381.3	1447.7	23	2078.0	381.3	1887.3
24	1711.1	397.9	1512.2	24	2169.9	397.9	1970.9
25	1784.0	414.5	1576.8	25	2261.9	414.5	2054.7
26	1857.1	431.1	1641.6	26	2354.1	431.1	2138.5
27	1930.2	447.7	1706.4	27	2446.3	447.7	2222.6
28	2003.5	464.2	1771.5	28	2538.8	464.2	2306.7
29	2077.0	480.8	1836.6	29	2631.3	480.8	2390.9
30	2150.5	497.4	1901.9	30	2724.0	497.4	2475.3
31	2224.2	514.0	1967.3	31	2816.8	514.0	2559.9
32	2298.1	530.6	2032.8	32	2909.8	530.6	2644.5
33	2372.0	547.1	2098.5	33	3002.8	547.1	2729.3
34	2446.1	563.7	2164.3	34	3096.0	563.7	2814.2
35	2520.3	580.3	2230.2	35	3189.4	580.3	2899.2
36	2594.7	596.9	2296.3	36	3282.8	596.9	2984.4
37	2669.1	613.5	2362.5	37	3376.4	613.5	3069.7
38	2743.7	630.0	2428.8	38	3470.1	630.0	3155.1
39	2818.5	646.6	2495.2	39	3564.0	646.6	3240.7
40	2893.3	663.2	2561.8	40	3657.9	663.2	3326.4
41	2968.3	679.8	2628.5	41	3752.1	679.8	3412.2
42	3043.5	696.4	2695.3	42	3846.3	696.4	3498.2
43	3118.7	712.9	2762.3	43	3940.7	712.9	3584.2
44	3194.1	729.5	2829.4	44	4035.2	729.5	3670.5
45	3269.6	746.1	2896.6	45	4129.8	746.1	3756.8
46	3345.2	762.7	2964.0	46	4224.5	762.7	3843.3
47	3421.0	779.3	3031.4	47	4319.4	779.3	3929.9
48	3496.9	795.8	3099.1	48	4414.4	795.8	4016.6
49	3572.9	812.4	3166.8	49	4509.6	812.4	4103.4
50	3649.1	829.0	3234.7	50	4604.9	829.0	4190.4
51	3725.4	845.6	3302.7	51	4700.3	845.6	4277.5
52	3801.8	862.2	3370.8	52	4795.8	862.2	4364.8
53	3878.4	878.7	3439.1	53	4891.5	878.7	4452.2
54	3955.0	895.3	3507.4	54	4987.3	895.3	4539.7
55	4031.9	911.9	3576.0	55	5083.2	911.9	4627.3
56	4108.8	928.5	3644.6	56	5179.2	928.5	4715.1
57	4185.9	945.1	3713.4	57	5275.4	945.1	4803.0
58	4263.1	961.6	3782.3	58	5371.7	961.6	4891.0
59	4340.4	978.2	3851.3	59	5468.2	978.2	4979.1
60	4417.8	994.8	3920.5	60	5564.8	994.8	5067.4

*** Heights are relative to the antenna feed horn height**

*** Heights are relative to the antenna feed horn height**

Elevation Angle (deg) 6.73				Elevation Angle (deg) 8.00			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*	Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	117.3	16.6	109.0	1	139.2	16.6	130.9
2	234.7	33.2	218.1	2	278.5	33.2	262.0
3	352.3	49.7	327.4	3	418.0	49.7	393.1
4	469.9	66.3	436.8	4	557.6	66.3	524.4
5	587.8	82.9	546.3	5	697.3	82.9	655.9
6	705.7	99.5	656.0	6	837.2	99.5	787.4
7	823.8	116.1	765.7	7	977.1	116.1	919.1
8	942.0	132.6	875.7	8	1117.3	132.6	1050.9
9	1060.3	149.2	985.7	9	1257.5	149.2	1182.9
10	1178.8	165.8	1095.9	10	1397.9	165.8	1315.0
11	1297.3	182.4	1206.2	11	1538.4	182.4	1447.2
12	1416.1	199.0	1316.6	12	1679.0	199.0	1579.5
13	1534.9	215.5	1427.2	13	1819.8	215.5	1712.0
14	1653.9	232.1	1537.8	14	1960.7	232.1	1844.6
15	1773.0	248.7	1648.7	15	2101.7	248.7	1977.3
16	1892.2	265.3	1759.6	16	2242.8	265.3	2110.2
17	2011.6	281.9	1870.7	17	2384.1	281.9	2243.2
18	2131.1	298.4	1981.9	18	2525.5	298.4	2376.3
19	2250.7	315.0	2093.2	19	2667.0	315.0	2509.6
20	2370.5	331.6	2204.7	20	2808.7	331.6	2642.9
21	2490.4	348.2	2316.3	21	2950.5	348.2	2776.4
22	2610.4	364.8	2428.0	22	3092.4	364.8	2910.1
23	2730.5	381.3	2539.9	23	3234.5	381.3	3043.9
24	2850.8	397.9	2651.9	24	3376.7	397.9	3177.8
25	2971.2	414.5	2764.0	25	3519.0	414.5	3311.8
26	3091.8	431.1	2876.2	26	3661.4	431.1	3445.9
27	3212.4	447.7	2988.6	27	3804.0	447.7	3580.2
28	3333.2	464.2	3101.1	28	3946.7	464.2	3714.6
29	3454.1	480.8	3213.8	29	4089.6	480.8	3849.2
30	3575.2	497.4	3326.5	30	4232.5	497.4	3983.9
31	3696.4	514.0	3439.4	31	4375.6	514.0	4118.7
32	3817.7	530.6	3552.4	32	4518.8	530.6	4253.6
33	3939.1	547.1	3665.6	33	4662.2	547.1	4388.7
34	4060.7	563.7	3778.9	34	4805.7	563.7	4523.9
35	4182.4	580.3	3892.3	35	4949.3	580.3	4659.2
36	4304.2	596.9	4005.8	36	5093.0	596.9	4794.6
37	4426.2	613.5	4119.5	37	5236.9	613.5	4930.2
38	4548.3	630.0	4233.3	38	5380.9	630.0	5065.9
39	4670.5	646.6	4347.2	39	5525.1	646.6	5201.8
40	4792.9	663.2	4461.3	40	5669.3	663.2	5337.8
41	4915.3	679.8	4575.5	41	5813.7	679.8	5473.9
42	5038.0	696.4	4689.8	42	5958.2	696.4	5610.1
43	5160.7	712.9	4804.3	43	6102.9	712.9	5746.5
44	5283.6	729.5	4918.9	44	6247.7	729.5	5883.0
45	5406.6	746.1	5033.6	45	6392.6	746.1	6019.6
46	5529.7	762.7	5148.4	46	6537.6	762.7	6156.3
47	5653.0	779.3	5263.4	47	6682.8	779.3	6293.2
48	5776.3	795.8	5378.5	48	6828.1	795.8	6430.2
49	5899.9	812.4	5493.7	49	6973.5	812.4	6567.4
50	6023.5	829.0	5609.1	50	7119.1	829.0	6704.6
51	6147.3	845.6	5724.6	51	7264.8	845.6	6842.0
52	6271.2	862.2	5840.2	52	7410.6	862.2	6979.6
53	6395.2	878.7	5955.9	53	7556.5	878.7	7117.2
54	6519.4	895.3	6071.8	54	7702.6	895.3	7255.0
55	6643.7	911.9	6187.8	55	7848.8	911.9	7392.9
56	6768.1	928.5	6303.9	56	7995.2	928.5	7531.0
57	6892.7	945.1	6420.2	57	8141.6	945.1	7669.2
58	7017.4	961.6	6536.6	58	8288.2	961.6	7807.5
59	7142.2	978.2	6653.1	59	8435.0	978.2	7945.9
60	7267.1	994.8	6769.8	60	8581.8	994.8	8084.5

*** Heights are relative to the antenna feed horn height**

*** Heights are relative to the antenna feed horn height**

Elevation Angle (deg) 9.98			
Slant Rang (km)	Beam Centerline Height m*	Beam Width m*	Beam Bottom Height m*
1	173.3	16.6	165.0
2	346.7	33.2	330.1
3	520.3	49.7	495.4
4	694.0	66.3	660.8
5	867.8	82.9	826.3
6	1041.7	99.5	992.0
7	1215.8	116.1	1157.8
8	1390.0	132.6	1323.7
9	1564.3	149.2	1489.7
10	1738.8	165.8	1655.9
11	1913.4	182.4	1822.2
12	2088.1	199.0	1988.6
13	2262.9	215.5	2155.2
14	2437.9	232.1	2321.9
15	2613.0	248.7	2488.7
16	2788.3	265.3	2655.6
17	2963.6	281.9	2822.7
18	3139.1	298.4	2989.9
19	3314.8	315.0	3157.3
20	3490.5	331.6	3324.7
21	3666.4	348.2	3492.3
22	3842.4	364.8	3660.1
23	4018.6	381.3	3827.9
24	4194.8	397.9	3995.9
25	4371.3	414.5	4164.0
26	4547.8	431.1	4332.3
27	4724.5	447.7	4500.7
28	4901.3	464.2	4669.2
29	5078.2	480.8	4837.8
30	5255.2	497.4	5006.6
31	5432.4	514.0	5175.5
32	5609.7	530.6	5344.5
33	5787.2	547.1	5513.7
34	5964.8	563.7	5682.9
35	6142.5	580.3	5852.4
36	6320.3	596.9	6021.9
37	6498.3	613.5	6191.6
38	6676.4	630.0	6361.4
39	6854.6	646.6	6531.3
40	7032.9	663.2	6701.4
41	7211.4	679.8	6871.6
42	7390.0	696.4	7041.9
43	7568.8	712.9	7212.3
44	7747.6	729.5	7382.9
45	7926.6	746.1	7553.6
46	8105.8	762.7	7724.5
47	8285.0	779.3	7895.5
48	8464.4	795.8	8066.6
49	8643.9	812.4	8237.8
50	8823.6	829.0	8409.1
51	9003.4	845.6	8580.6
52	9183.3	862.2	8752.3
53	9363.3	878.7	8924.0
54	9543.5	895.3	9095.9
55	9723.8	911.9	9267.9
56	9904.2	928.5	9440.0
57	10084.8	945.1	9612.3
58	10265.5	961.6	9784.7
59	10446.3	978.2	9957.2
60	10627.2	994.8	10129.9

*** Heights are relative to the antenna feed horn height**