RF EMISSIONS COMPLIANCE REPORT

American Tower Corporation

Site: 88018 Stamford (Catoona)
Catoona Lake
Samford, CT 06902

Latitude/Longitude:
41.05282/-73.56304

May 22, 2014

Report Status:

The Site Is under 5% Threshold

Prepared By:

Waterford Consultants, LLC

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ENGINEERING STATEMENT CONFIRMING COMPLIANCE
With Radiofrequency Radiation Exposure Limits

Compliance Statement

Subject site COMPLIES with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § § 1.1307(b)(3) and 1.1310

Technical Framework: Basis for Compliance Statement

Criteria for evaluation are listed in Table 1 of 47 C.F.R. § 1.1310. Calculations using input data provided to Waterford by client or client's representative numerically confirm the subject site can operate at a 100% duty cycle without creating situations that exceed MPE limits in areas of uncontrolled access. Because the subject facility is commercial infrastructure, general public access to the immediate vicinity of the equipment is likely to diminish the quality of wireless service available to the community. For that reason, whether signage is, or is not required as a safety precaution, Waterford recommends placement of signage at the subject site for the purpose of improving network reliability by discouraging public access.

Power density decreases significantly over a short distance from any antenna. Specifically with respect to directional panel antennas, the design, oriented in azimuth and elevation as documented, reasonably precludes potential to exceed MPE limits at any location other than directly in front of the antenna. Areas in front of the antenna that are restricted by barriers, would require climbing or are otherwise beyond the reach of a standing individual of average height are not considered accessible. Analysis or measurement of instantaneous energy levels is performed for use as proof of compliance with FCC rules and regulations applicable to non-occupational persons, those individuals who are not authorized to access portions of the antenna support structure above ground level. To assess time-weighted exposure to occupational personal working within secured areas of the site, on the supporting structure, or in the immediate proximity of the antenna equipment is a separate study requiring detailed ergonomic information.

Regulatory Framework

The FCC requires licensees to assure that persons are not exposed to radiofrequency electromagnetic energy power densities in excess of the applicable MPE (Maximum Permissible Exposure) limit. These rules apply to both Occupational Personnel and the General Population. Applicable FCC rules are found at 47 C.F.R. § § 1.1307(b)(3) and 1.1310. The FCC rules define two tiers of permissible exposure that are dependent on the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure.

> ***General Population / uncontrolled*** exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure.
>
> ***Occupational / controlled*** exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure.

Maximum Permissible Exposure ("MPE") is defined in OET 65 as being 100% of the exposure limit for the situation or tier of permissible exposure. The time averaged maximum permissible exposure to radiofrequency electromagnetic energy (RF), shown in Table 1 of Appendix A, expressed in milliwatt-minutes per square centimeter, is the same value for both tiers. FCC intention regarding time averaged exposure is expressed in this quote from page 10 of OET 65:

"Another feature of the exposure guidelines is that exposures, in terms of power density, E2 or H2, may be averaged over certain periods of time with the average not to exceed the limit for continuous exposure.11 As shown in Table 1 of Appendix A, the averaging time for occupational/controlled exposures is 6 minutes, while the averaging time for general population/uncontrolled exposures is 30 minutes. It is important to note that for general population/uncontrolled exposures it is often not possible to control exposures to the extent that averaging times can be applied. In those situations, it is often necessary to assume continuous exposure.

As an illustration of the application of time-averaging to occupational/controlled exposure consider the following. The relevant interval for time-averaging for occupational/controlled exposures is six minutes. This means, for example, that during any given six-minute period a worker could be exposed to two times the applicable power density limit for three minutes as long as he or she were not exposed at all for the preceding or following three minutes. Similarly, a worker could be exposed at three times the limit for two minutes as long as no exposure occurs during the preceding or subsequent four minutes, and so forth.

[11] Note that although the FCC did not explicitly adopt limits for peak power density, guidance on these types of exposures can be found in Section 4.4 of the ANSI/IEEE C95.1-1992 standard."

At the entry to any area in excess of 100% General Population MPE, access controls must be put in place and maintained to restrict access, preventing occupancy by the general population. For persons who have been properly trained and meet the definition of being Occupational Personnel, access to areas at the Occupational MPE limit may be granted for six minutes, so long as the preceding six minute period and the following six minute period are free from exposure; the worker is not exposed to any RF energy. Subject to other site security requirements, Occupational Personnel trained in RF safety and equipped with personal protective equipment designed for safe work in the vicinity of RF may be granted access. Controls such as physical barriers to entry imposed by locked doors, locked passageways, or other access control mechanisms may be supplemented by alarms that notify site management of a breach in access control. Controls may include administrative policies and procedures requiring proof of personal protective equipment (e.g. RF attenuating eyewear, wearable RF shielding), RF training requirements to obtain site access cards, presentation of appropriate RF awareness training certifications to security personnel, requirement to wear a personal RF monitor, or other measures that control access.

FCC regulations regarding Radiofrequency radiation exposure, expressed in 47 CFR § 1.1310 are further clarified with respect to the value of 5% of exposure limits for the subject transmitters in the following section of 47 CFR § 1.1307 (b):

(3) In general, when the guidelines specified in § 1.1310 are exceeded in an accessible area due to the emissions from multiple fixed transmitters, actions necessary to bring the area into compliance are the shared responsibility of all licensees whose transmitters produce, at the area in question, power density levels that exceed 5% of the power density exposure limit applicable to their particular transmitter or field strength levels that, when squared, exceed 5% of the square of the electric or magnetic field strength limit applicable to their particular transmitter. Owners of transmitter sites are expected to allow applicants and licensees to take reasonable steps to comply with the requirements contained In §1.1307(b) and, where feasible, should encourage co-location of transmitters and common solutions for controlling access to areas where the RF exposure limits contained in § 1.1310 might be exceeded.

Following these FCC requirements, predictive modeling was performed. That modeling indicates power density levels from client transmitters do not exceed 5% of the power density MPE limit applicable to their transmitters.

Qualifications of Waterford

With more than 40 team-years of experience, Waterford Consultants, LLC [Waterford] provides technical consulting services to clients in the Radio Communications and antenna siting industry. Waterford retains professional engineers who are placed in responsible charge of the processes for analysis.

Waterford is familiar with 47 C.F.R. § § 1.1307(b)(3) and 1.1310 along with the general Rules, Regulations and policies of the FCC. Waterford processes incorporate all specifications of FCC Office of Engineering and Technology, Bulletin 65 ("OET65"), from the website: Uwww.fcc.gov/oet/rfsafety,U and follow criteria detailed in 47 CFR § 1.1310 "Radiofrequency radiation exposure Limits".

Within the technical and regulatory framework detailed above, Waterford created sophisticated computer modeling tools that operate on data provided by Waterford clients through the Waterford web portal. In developing these tools, Waterford chose each program step encoded into computer modeling tools according to recognized and generally accepted good engineering practices. Permissible exposure limits are band specific, and the Waterford computerized modeling tools correctly calculate permissible exposure based on the band(s) specified in the input data. Only clients and client representatives are authorized to provide input data through the Waterford web portal. In securing that authorization, clients and client representatives warrant the accuracy of all input data.
Waterford Consultants, LLC attests to the accuracy of the engineering calculations. Waterford also attests that the results of those engineering calculations are correctly summarized in this report.

Certification

I hereby certify that this report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the law.

Steven Nast Baier-Anderson
Registered Professional Engineer
Commonwealth of Virginia Reg. No. 0402-025832
May 22, 2014

2014.05.22 17:11:01 -04'00'

5/22/2014 2:00:22 PM

American Tower Corporation
88018 Stamford (Catoona)
Site Summary

Source	Predicted Power Density, % of MPE
AT&T Mobility	< 1 %
AT&T Mobility	< 1 %
AT&T Mobility	< 1 %
Bell Industries	< 1 %
Clearwire	< 1 %
Clearwire	< 1 %
Lojack Corp	< 1 %
Marcus Communications	< 1 %
Marcus Communications	< 1 %
MetroPCS	< 1 %
Sensus Metering Systems	< 1 %
Sprint	< 1 %
Sprint	< 1 %
Sprint	< 1 %
T-Mobile	< 1 %
US Treasury	< 1 %
USA Mobility	< 1 %
XM Satellite	< 1 %
Sum of Listed Sources	0.3 %

AT&T Mobility
88018 Stamford (Catoona)
Summary

Frequency:	1900	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0.2	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Powerwave 7770_00_00_850_MSI	235	23	0	3280	0.2	0
Powerwave 7770_00_00_850_MSI	235	143	0	3280	0.2	0
Powerwave 7770_00_00_850_MSI	235	263	0	3280	0.2	0

AT&T Mobility
88018 Stamford (Catoona)
Summary

Frequency:	850	(MHz)
MPE	566	µW/cm^2
Maximum power density at ground level:	0.2	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Powerwave 7770_00_00_850_MSI	235	23	0	2000	0.2	0
Powerwave 7770_00_00_850_MSI	235	143	0	2000	0.2	0
Powerwave 7770_00_00_850_MSI	235	263	0	2000	0.2	0

AT&T Mobility
88018 Stamford (Catoona)
Summary

Frequency:	700	(MHz)
MPE	466	µW/cm^2
Maximum power density at ground level:	0.2	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
ANDREW SBNHH-1D65B_00DT_0728	235	23	0	2000	0.2	0
ANDREW SBNHH-1D65B_00DT_0728	235	143	0	2000	0.2	0
ANDREW SBNHH-1D65B_00DT_0728	235	263	0	2000	0.2	0

Bell Industries
88018 Stamford (Catoona)
Summary

Frequency:	930	(MHz)
MPE	620	µW/cm^2
Maximum power density at ground level:	0.1	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Omni	303	0	0	1000	0.1	0

Clearwire
88018 Stamford (Catoona)
Summary

Frequency:	18000	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Microwave Dish	300	0	0	105	0	0

Clearwire
88018 Stamford (Catoona)
Summary

Frequency:	2500	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
ARGUS LLPX310R-V1	167	30	0	2000	0	0
ARGUS LLPX310R-V1	167	150	0	2000	0	0
ARGUS LLPX310R-V1	167	270	0	2000	0	0

Lojack Corp
88018 Stamford (Catoona)
Summary

Frequency:	173	(MHz)
MPE	200	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Omni	310	0	0	200	0	0

Marcus Communications
88018 Stamford (Catoona)
Summary

Frequency:	7000	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Microwave Dish	300	60	0	2000	0	0
Generic Microwave Dish	300	51	0	2000	0	0

Marcus Communications
88018 Stamford (Catoona)
Summary

Frequency:	450	(MHz)
MPE	300	µW/cm^2
Maximum power density at ground level:	0.1	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Omni-450	301	0	0	500	0	0
Generic Omni-450	207	0	0	200	0	0
Generic Omni-450	107	0	0	200	0.1	0

MetroPCS
88018 Stamford (Catoona)
Summary

Frequency:	2100	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0.1	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Kathrein-Scala 80010504V01_1920-MHz	160	60	0	2000	0.1	0
Kathrein-Scala 80010504V01_1920-MHz	160	180	0	2000	0.1	0
Kathrein-Scala 80010504V01_1920-MHz	160	300	0	2000	0.1	0

Sensus Metering Systems
88018 Stamford (Catoona)
Summary

Frequency:	340	(MHz)
MPE	226	µW/cm^2
Maximum power density at ground level:	0.1	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Omni	142	0	0	200	0.1	0

Sprint
88018 Stamford (Catoona)
Summary

Frequency:	1900	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0.1	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
RFS APXVSPP18-C-0-1910R	150	20	0	2000	0.1	0
RFS APXVSPP18-C-0-1910R	150	120	0	2000	0.1	0
RFS APXVSPP18-C-0-1910R	150	200	0	2000	0.1	0

Sprint
88018 Stamford (Catoona)
Summary

Frequency:	2500	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
RFS APXVTM14_Broadcast-0-2510+	150	20	0	2000	0	0
RFS APXVTM14_Broadcast-0-2510+	150	120	0	2000	0	0
RFS APXVTM14_Broadcast-0-2510+	150	220	0	2000	0	0

Sprint
88018 Stamford (Catoona)
Summary

Frequency:	850	(MHz)
MPE	566	µW/cm^2
Maximum power density at ground level:	0.2	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
ANDREW DB844H90-XY	222	10	0	2000	0.2	0
ANDREW DB844H90-XY	222	110	0	2000	0.2	0
ANDREW DB844H90-XY	222	240	0	2000	0.2	0

T-Mobile
88018 Stamford (Catoona)
Summary

Frequency:	2100	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Ericsson AIR21 - 2100	265	80	0	2000	0	0
Ericsson AIR21 - 2100	265	180	0	2000	0	0
Ericsson AIR21 - 2100	265	330	0	2000	0	0

US Treasury
88018 Stamford (Catoona)
Summary

Frequency:	400	(MHz)
MPE	266	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Omni-450	245	0	0	100	0	0
Generic Omni-450	205	0	0	100	0	0

USA Mobility
88018 Stamford (Catoona)
Summary

Frequency:	900	(MHz)
MPE	600	µW/cm^2
Maximum power density at ground level:	0	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	ERP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Antel BCD-80010 Bcd-80010	183	0	0	500	0	0
Antel BCD-80010 Bcd-80010	173	120	0	500	0	0

XM Satellite
88018 Stamford (Catoona)
Summary

Frequency:	2300	(MHz)
MPE	1000	µW/cm^2
Maximum power density at ground level:	0.1	µW/cm^2
Highest percentage of Maximum Permissible Exposure:	0	%

Make / Model	Height(ft)	Orientº	DTº	EiRP(W)	Max Power Density (µW/cm^2)	Percent of MPE
Generic Omni	268	0	0	1000	0.1	0
Generic Omni	260	0	0	1000	0.1	0

AT&T Mobility
88018 Stamford (Catoona)
Powerwave - 7770_00_00_850_MSI 23° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	3280	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	1958.27	4099.6	4100.2	0.004	0.0004
5	1.30	0.741	1485.50	817.9	821.0	0.07	0.007
10	5.70	0.269	539.35	405.8	412.1	0.11	0.01
20	16.70	0.021	42.84	196.6	209.2	0.03	0.003
30	17.20	0.019	38.18	123.9	143.1	0.06	0.006
35	39.10	0.000	0.25	102.2	124.8	0.0005	0.00005
40	19.00	0.013	25.23	85.3	111.3	0.07	0.007
45	16.00	0.025	50.34	71.6	101.2	0.16	0.02
50	16.60	0.022	43.84	60.0	93.4	0.17	0.02
55	19.50	0.011	22.48	50.1	87.4	0.1	0.01
60	24.20	0.004	7.62	41.3	82.6	0.04	0.004
65	29.80	0.001	2.10	33.4	79.0	0.01	0.001
70	33.00	0.001	1.00	26.0	76.2	0.006	0.0006
71	33.00	0.001	1.00	24.6	75.7	0.006	0.0006
72	33.20	0.000	0.96	23.2	75.2	0.006	0.0006
73	33.10	0.000	0.98	21.9	74.8	0.006	0.0006
74	33.10	0.000	0.98	20.5	74.4	0.006	0.0006
75	33.10	0.000	0.98	19.2	74.1	0.006	0.0006
76	33.30	0.000	0.94	17.8	73.8	0.006	0.0006
77	33.30	0.000	0.94	16.5	73.4	0.006	0.0006
78	33.50	0.000	0.90	15.2	73.2	0.006	0.0006
79	33.60	0.000	0.88	13.9	72.9	0.006	0.0006
80	33.70	0.000	0.86	12.6	72.7	0.005	0.0005
81	34.00	0.000	0.80	11.3	72.4	0.005	0.0005
82	34.00	0.000	0.80	10.1	72.3	0.005	0.0005
83	34.30	0.000	0.75	8.8	72.1	0.005	0.0005
84	34.50	0.000	0.71	7.5	72.0	0.005	0.0005
85	34.90	0.000	0.65	6.3	71.8	0.004	0.0004
86	35.10	0.000	0.62	5.0	71.7	0.004	0.0004
87	35.20	0.000	0.61	3.8	71.7	0.004	0.0004
88	35.40	0.000	0.58	2.5	71.6	0.004	0.0004
89	35.70	0.000	0.54	1.2	71.6	0.004	0.0004
90	36.00	0.000	0.50	0.0	71.6	0.003	0.0003

AT&T Mobility
88018 Stamford (Catoona)
Powerwave - 7770_00_00_850_MSI 143° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	3280	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	1958.27	4099.6	4100.2	0.004	0.0004
5	1.30	0.741	1485.50	817.9	821.0	0.07	0.007
10	5.70	0.269	539.35	405.8	412.1	0.11	0.01
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30	17.20	0.019	38.18	123.9	143.1	0.06	0.006
35	39.10	0.000	0.25	102.2	124.8	0.0005	0.00005
40	19.00	0.013	25.23	85.3	111.3	0.07	0.007
45	16.00	0.025	50.34	71.6	101.2	0.16	0.02
50	16.60	0.022	43.84	60.0	93.4	0.17	0.02
55	19.50	0.011	22.48	50.1	87.4	0.1	0.01
60	24.20	0.004	7.62	41.3	82.6	0.04	0.004
65	29.80	0.001	2.10	33.4	79.0	0.01	0.001
70	33.00	0.001	1.00	26.0	76.2	0.006	0.0006
71	33.00	0.001	1.00	24.6	75.7	0.006	0.0006
72	33.20	0.000	0.96	23.2	75.2	0.006	0.0006
73	33.10	0.000	0.98	21.9	74.8	0.006	0.0006
74	33.10	0.000	0.98	20.5	74.4	0.006	0.0006
75	33.10	0.000	0.98	19.2	74.1	0.006	0.0006
76	33.30	0.000	0.94	17.8	73.8	0.006	0.0006
77	33.30	0.000	0.94	16.5	73.4	0.006	0.0006
78	33.50	0.000	0.90	15.2	73.2	0.006	0.0006
79	33.60	0.000	0.88	13.9	72.9	0.006	0.0006
80	33.70	0.000	0.86	12.6	72.7	0.005	0.0005
81	34.00	0.000	0.80	11.3	72.4	0.005	0.0005
82	34.00	0.000	0.80	10.1	72.3	0.005	0.0005
83	34.30	0.000	0.75	8.8	72.1	0.005	0.0005
84	34.50	0.000	0.71	7.5	72.0	0.005	0.0005
85	34.90	0.000	0.65	6.3	71.8	0.004	0.0004
86	35.10	0.000	0.62	5.0	71.7	0.004	0.0004
87	35.20	0.000	0.61	3.8	71.7	0.004	0.0004
88	35.40	0.000	0.58	2.5	71.6	0.004	0.0004
89	35.70	0.000	0.54	1.2	71.6	0.004	0.0004
90	36.00	0.000	0.50	0.0	71.6	0.003	0.0003

AT&T Mobility
88018 Stamford (Catoona)
Powerwave - 7770_00_00_850_MSI 263° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	3280	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	1958.27	4099.6	4100.2	0.004	0.0004
5	1.30	0.741	1485.50	817.9	821.0	0.07	0.007
10	5.70	0.269	539.35	405.8	412.1	0.11	0.01
20	16.70	0.021	42.84	196.6	209.2	0.03	0.003
30	17.20	0.019	38.18	123.9	143.1	0.06	0.006
35	39.10	0.000	0.25	102.2	124.8	0.0005	0.00005
40	19.00	0.013	25.23	85.3	111.3	0.07	0.007
45	16.00	0.025	50.34	71.6	101.2	0.16	0.02
50	16.60	0.022	43.84	60.0	93.4	0.17	0.02
55	19.50	0.011	22.48	50.1	87.4	0.1	0.01
60	24.20	0.004	7.62	41.3	82.6	0.04	0.004
65	29.80	0.001	2.10	33.4	79.0	0.01	0.001
70	33.00	0.001	1.00	26.0	76.2	0.006	0.0006
71	33.00	0.001	1.00	24.6	75.7	0.006	0.0006
72	33.20	0.000	0.96	23.2	75.2	0.006	0.0006
73	33.10	0.000	0.98	21.9	74.8	0.006	0.0006
74	33.10	0.000	0.98	20.5	74.4	0.006	0.0006
75	33.10	0.000	0.98	19.2	74.1	0.006	0.0006
76	33.30	0.000	0.94	17.8	73.8	0.006	0.0006
77	33.30	0.000	0.94	16.5	73.4	0.006	0.0006
78	33.50	0.000	0.90	15.2	73.2	0.006	0.0006
79	33.60	0.000	0.88	13.9	72.9	0.006	0.0006
80	33.70	0.000	0.86	12.6	72.7	0.005	0.0005
81	34.00	0.000	0.80	11.3	72.4	0.005	0.0005
82	34.00	0.000	0.80	10.1	72.3	0.005	0.0005
83	34.30	0.000	0.75	8.8	72.1	0.005	0.0005
84	34.50	0.000	0.71	7.5	72.0	0.005	0.0005
85	34.90	0.000	0.65	6.3	71.8	0.004	0.0004
86	35.10	0.000	0.62	5.0	71.7	0.004	0.0004
87	35.20	0.000	0.61	3.8	71.7	0.004	0.0004
88	35.40	0.000	0.58	2.5	71.6	0.004	0.0004
89	35.70	0.000	0.54	1.2	71.6	0.004	0.0004
90	36.00	0.000	0.50	0.0	71.6	0.003	0.0003

AT&T Mobility
88018 Stamford (Catoona)
Powerwave - 7770_00_00_850_MSI 23° Sector

Maximum Permissible Exposure (MPE): 566 µW/cm^2

EiRP (Watts)	2000	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	1954.47	4099.6	4100.2	0.004	0.0007
5	1.30	0.741	1482.62	817.9	821.0	0.07	0.01
10	5.70	0.269	538.31	405.8	412.1	0.11	0.02
20	16.70	0.021	42.76	196.6	209.2	0.03	0.006
30	17.20	0.019	38.11	123.9	143.1	0.06	0.01
35	39.10	0.000	0.25	102.2	124.8	0.0005	0.0001
40	19.00	0.013	25.18	85.3	111.3	0.07	0.01
45	16.00	0.025	50.24	71.6	101.2	0.16	0.03
50	16.60	0.022	43.76	60.0	93.4	0.17	0.03
55	19.50	0.011	22.44	50.1	87.4	0.1	0.02
60	24.20	0.004	7.60	41.3	82.6	0.04	0.007
65	29.80	0.001	2.09	33.4	79.0	0.01	0.002
70	33.00	0.001	1.00	26.0	76.2	0.006	0.001
71	33.00	0.001	1.00	24.6	75.7	0.006	0.001
72	33.20	0.000	0.96	23.2	75.2	0.006	0.001
73	33.10	0.000	0.98	21.9	74.8	0.006	0.001
74	33.10	0.000	0.98	20.5	74.4	0.006	0.001
75	33.10	0.000	0.98	19.2	74.1	0.006	0.001
76	33.30	0.000	0.94	17.8	73.8	0.006	0.001
77	33.30	0.000	0.94	16.5	73.4	0.006	0.001
78	33.50	0.000	0.89	15.2	73.2	0.006	0.001
79	33.60	0.000	0.87	13.9	72.9	0.005	0.001
80	33.70	0.000	0.85	12.6	72.7	0.005	0.001
81	34.00	0.000	0.80	11.3	72.4	0.005	0.0009
82	34.00	0.000	0.80	10.1	72.3	0.005	0.0009
83	34.30	0.000	0.74	8.8	72.1	0.005	0.0008
84	34.50	0.000	0.71	7.5	72.0	0.005	0.0008
85	34.90	0.000	0.65	6.3	71.8	0.004	0.0007
86	35.10	0.000	0.62	5.0	71.7	0.004	0.0007
87	35.20	0.000	0.60	3.8	71.7	0.004	0.0007
88	35.40	0.000	0.58	2.5	71.6	0.004	0.0007
89	35.70	0.000	0.54	1.2	71.6	0.004	0.0006
90	36.00	0.000	0.50	0.0	71.6	0.003	0.0006

AT&T Mobility
88018 Stamford (Catoona)
Powerwave - 7770_00_00_850_MSI 143° Sector

Maximum Permissible Exposure (MPE): 566 µW/cm^2

EiRP (Watts)	2000	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	1954.47	4099.6	4100.2	0.004	0.0007
5	1.30	0.741	1482.62	817.9	821.0	0.07	0.01
10	5.70	0.269	538.31	405.8	412.1	0.11	0.02
20	16.70	0.021	42.76	196.6	209.2	0.03	0.006
30	17.20	0.019	38.11	123.9	143.1	0.06	0.01
35	39.10	0.000	0.25	102.2	124.8	0.0005	0.0001
40	19.00	0.013	25.18	85.3	111.3	0.07	0.01
45	16.00	0.025	50.24	71.6	101.2	0.16	0.03
50	16.60	0.022	43.76	60.0	93.4	0.17	0.03
55	19.50	0.011	22.44	50.1	87.4	0.1	0.02
60	24.20	0.004	7.60	41.3	82.6	0.04	0.007
65	29.80	0.001	2.09	33.4	79.0	0.01	0.002
70	33.00	0.001	1.00	26.0	76.2	0.006	0.001
71	33.00	0.001	1.00	24.6	75.7	0.006	0.001
72	33.20	0.000	0.96	23.2	75.2	0.006	0.001
73	33.10	0.000	0.98	21.9	74.8	0.006	0.001
74	33.10	0.000	0.98	20.5	74.4	0.006	0.001
75	33.10	0.000	0.98	19.2	74.1	0.006	0.001
76	33.30	0.000	0.94	17.8	73.8	0.006	0.001
77	33.30	0.000	0.94	16.5	73.4	0.006	0.001
78	33.50	0.000	0.89	15.2	73.2	0.006	0.001
79	33.60	0.000	0.87	13.9	72.9	0.005	0.001
80	33.70	0.000	0.85	12.6	72.7	0.005	0.001
81	34.00	0.000	0.80	11.3	72.4	0.005	0.0009
82	34.00	0.000	0.80	10.1	72.3	0.005	0.0009
83	34.30	0.000	0.74	8.8	72.1	0.005	0.0008
84	34.50	0.000	0.71	7.5	72.0	0.005	0.0008
85	34.90	0.000	0.65	6.3	71.8	0.004	0.0007
86	35.10	0.000	0.62	5.0	71.7	0.004	0.0007
87	35.20	0.000	0.60	3.8	71.7	0.004	0.0007
88	35.40	0.000	0.58	2.5	71.6	0.004	0.0007
89	35.70	0.000	0.54	1.2	71.6	0.004	0.0006
90	36.00	0.000	0.50	0.0	71.6	0.003	0.0006

AT&T Mobility
88018 Stamford (Catoona)
Powerwave - 7770_00_00_850_MSI 263° Sector

Maximum Permissible Exposure (MPE): 566 µW/cm^2

EiRP (Watts)	2000	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	1954.47	4099.6	4100.2	0.004	0.0007
5	1.30	0.741	1482.62	817.9	821.0	0.07	0.01
10	5.70	0.269	538.31	405.8	412.1	0.11	0.02
20	16.70	0.021	42.76	196.6	209.2	0.03	0.006
30	17.20	0.019	38.11	123.9	143.1	0.06	0.01
35	39.10	0.000	0.25	102.2	124.8	0.0005	0.0001
40	19.00	0.013	25.18	85.3	111.3	0.07	0.01
45	16.00	0.025	50.24	71.6	101.2	0.16	0.03
50	16.60	0.022	43.76	60.0	93.4	0.17	0.03
55	19.50	0.011	22.44	50.1	87.4	0.1	0.02
60	24.20	0.004	7.60	41.3	82.6	0.04	0.007
65	29.80	0.001	2.09	33.4	79.0	0.01	0.002
70	33.00	0.001	1.00	26.0	76.2	0.006	0.001
71	33.00	0.001	1.00	24.6	75.7	0.006	0.001
72	33.20	0.000	0.96	23.2	75.2	0.006	0.001
73	33.10	0.000	0.98	21.9	74.8	0.006	0.001
74	33.10	0.000	0.98	20.5	74.4	0.006	0.001
75	33.10	0.000	0.98	19.2	74.1	0.006	0.001
76	33.30	0.000	0.94	17.8	73.8	0.006	0.001
77	33.30	0.000	0.94	16.5	73.4	0.006	0.001
78	33.50	0.000	0.89	15.2	73.2	0.006	0.001
79	33.60	0.000	0.87	13.9	72.9	0.005	0.001
80	33.70	0.000	0.85	12.6	72.7	0.005	0.001
81	34.00	0.000	0.80	11.3	72.4	0.005	0.0009
82	34.00	0.000	0.80	10.1	72.3	0.005	0.0009
83	34.30	0.000	0.74	8.8	72.1	0.005	0.0008
84	34.50	0.000	0.71	7.5	72.0	0.005	0.0008
85	34.90	0.000	0.65	6.3	71.8	0.004	0.0007
86	35.10	0.000	0.62	5.0	71.7	0.004	0.0007
87	35.20	0.000	0.60	3.8	71.7	0.004	0.0007
88	35.40	0.000	0.58	2.5	71.6	0.004	0.0007
89	35.70	0.000	0.54	1.2	71.6	0.004	0.0006
90	36.00	0.000	0.50	0.0	71.6	0.003	0.0006

AT&T Mobility
88018 Stamford (Catoona)
ANDREW - SBNHH-1D65B_00DT_0728 23° Sector

Maximum Permissible Exposure (MPE): 466 µW/cm^2

EiRP (Watts)	2000	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.13	0.971	1941.02	4099.6	4100.2	0.004	0.0008
5	2.25	0.596	1191.32	817.9	821.0	0.06	0.01
10	10.53	0.089	177.02	405.8	412.1	0.03	0.007
20	11.13	0.077	154.18	196.6	209.2	0.12	0.03
30	18.91	0.013	25.71	123.9	143.1	0.04	0.009
35	24.17	0.004	7.66	102.2	124.8	0.02	0.004
40	38.49	0.000	0.28	85.3	111.3	0.0008	0.0002
45	22.10	0.006	12.33	71.6	101.2	0.04	0.009
50	17.08	0.020	39.18	60.0	93.4	0.15	0.03
55	17.35	0.018	36.82	50.1	87.4	0.16	0.03
60	20.18	0.010	19.19	41.3	82.6	0.09	0.02
65	24.07	0.004	7.83	33.4	79.0	0.04	0.009
70	27.90	0.002	3.24	26.0	76.2	0.02	0.004
71	28.63	0.001	2.74	24.6	75.7	0.02	0.003
72	29.30	0.001	2.35	23.2	75.2	0.01	0.003
73	29.88	0.001	2.06	21.9	74.8	0.01	0.003
74	30.28	0.001	1.88	20.5	74.4	0.01	0.002
75	30.46	0.001	1.80	19.2	74.1	0.01	0.002
76	30.42	0.001	1.82	17.8	73.8	0.01	0.002
77	30.21	0.001	1.91	16.5	73.4	0.01	0.003
78	29.93	0.001	2.03	15.2	73.2	0.01	0.003
79	29.67	0.001	2.16	13.9	72.9	0.01	0.003
80	29.48	0.001	2.25	12.6	72.7	0.01	0.003
81	29.42	0.001	2.29	11.3	72.4	0.01	0.003
82	29.50	0.001	2.24	10.1	72.3	0.01	0.003
83	29.73	0.001	2.13	8.8	72.1	0.01	0.003
84	30.11	0.001	1.95	7.5	72.0	0.01	0.003
85	30.61	0.001	1.74	6.3	71.8	0.01	0.002
86	31.22	0.001	1.51	5.0	71.7	0.01	0.002
87	31.87	0.001	1.30	3.8	71.7	0.008	0.002
88	32.48	0.001	1.13	2.5	71.6	0.007	0.002
89	32.96	0.001	1.01	1.2	71.6	0.007	0.001
90	33.27	0.000	0.94	0.0	71.6	0.006	0.001

AT&T Mobility
88018 Stamford (Catoona)
ANDREW - SBNHH-1D65B_00DT_0728 143° Sector

Maximum Permissible Exposure (MPE): 466 µW/cm^2

EiRP (Watts)	2000	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.13	0.971	1941.02	4099.6	4100.2	0.004	0.0008
5	2.25	0.596	1191.32	817.9	821.0	0.06	0.01
10	10.53	0.089	177.02	405.8	412.1	0.03	0.007
20	11.13	0.077	154.18	196.6	209.2	0.12	0.03
30	18.91	0.013	25.71	123.9	143.1	0.04	0.009
35	24.17	0.004	7.66	102.2	124.8	0.02	0.004
40	38.49	0.000	0.28	85.3	111.3	0.0008	0.0002
45	22.10	0.006	12.33	71.6	101.2	0.04	0.009
50	17.08	0.020	39.18	60.0	93.4	0.15	0.03
55	17.35	0.018	36.82	50.1	87.4	0.16	0.03
60	20.18	0.010	19.19	41.3	82.6	0.09	0.02
65	24.07	0.004	7.83	33.4	79.0	0.04	0.009
70	27.90	0.002	3.24	26.0	76.2	0.02	0.004
71	28.63	0.001	2.74	24.6	75.7	0.02	0.003
72	29.30	0.001	2.35	23.2	75.2	0.01	0.003
73	29.88	0.001	2.06	21.9	74.8	0.01	0.003
74	30.28	0.001	1.88	20.5	74.4	0.01	0.002
75	30.46	0.001	1.80	19.2	74.1	0.01	0.002
76	30.42	0.001	1.82	17.8	73.8	0.01	0.002
77	30.21	0.001	1.91	16.5	73.4	0.01	0.003
78	29.93	0.001	2.03	15.2	73.2	0.01	0.003
79	29.67	0.001	2.16	13.9	72.9	0.01	0.003
80	29.48	0.001	2.25	12.6	72.7	0.01	0.003
81	29.42	0.001	2.29	11.3	72.4	0.01	0.003
82	29.50	0.001	2.24	10.1	72.3	0.01	0.003
83	29.73	0.001	2.13	8.8	72.1	0.01	0.003
84	30.11	0.001	1.95	7.5	72.0	0.01	0.003
85	30.61	0.001	1.74	6.3	71.8	0.01	0.002
86	31.22	0.001	1.51	5.0	71.7	0.01	0.002
87	31.87	0.001	1.30	3.8	71.7	0.008	0.002
88	32.48	0.001	1.13	2.5	71.6	0.007	0.002
89	32.96	0.001	1.01	1.2	71.6	0.007	0.001
90	33.27	0.000	0.94	0.0	71.6	0.006	0.001

AT&T Mobility
88018 Stamford (Catoona)
ANDREW - SBNHH-1D65B_00DT_0728 263° Sector

Maximum Permissible Exposure (MPE): 466 µW/cm^2

EiRP (Watts)	2000	Height (feet)	235	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.13	0.971	1941.02	4099.6	4100.2	0.004	0.0008
5	2.25	0.596	1191.32	817.9	821.0	0.06	0.01
10	10.53	0.089	177.02	405.8	412.1	0.03	0.007
20	11.13	0.077	154.18	196.6	209.2	0.12	0.03
30	18.91	0.013	25.71	123.9	143.1	0.04	0.009
35	24.17	0.004	7.66	102.2	124.8	0.02	0.004
40	38.49	0.000	0.28	85.3	111.3	0.0008	0.0002
45	22.10	0.006	12.33	71.6	101.2	0.04	0.009
50	17.08	0.020	39.18	60.0	93.4	0.15	0.03
55	17.35	0.018	36.82	50.1	87.4	0.16	0.03
60	20.18	0.010	19.19	41.3	82.6	0.09	0.02
65	24.07	0.004	7.83	33.4	79.0	0.04	0.009
70	27.90	0.002	3.24	26.0	76.2	0.02	0.004
71	28.63	0.001	2.74	24.6	75.7	0.02	0.003
72	29.30	0.001	2.35	23.2	75.2	0.01	0.003
73	29.88	0.001	2.06	21.9	74.8	0.01	0.003
74	30.28	0.001	1.88	20.5	74.4	0.01	0.002
75	30.46	0.001	1.80	19.2	74.1	0.01	0.002
76	30.42	0.001	1.82	17.8	73.8	0.01	0.002
77	30.21	0.001	1.91	16.5	73.4	0.01	0.003
78	29.93	0.001	2.03	15.2	73.2	0.01	0.003
79	29.67	0.001	2.16	13.9	72.9	0.01	0.003
80	29.48	0.001	2.25	12.6	72.7	0.01	0.003
81	29.42	0.001	2.29	11.3	72.4	0.01	0.003
82	29.50	0.001	2.24	10.1	72.3	0.01	0.003
83	29.73	0.001	2.13	8.8	72.1	0.01	0.003
84	30.11	0.001	1.95	7.5	72.0	0.01	0.003
85	30.61	0.001	1.74	6.3	71.8	0.01	0.002
86	31.22	0.001	1.51	5.0	71.7	0.01	0.002
87	31.87	0.001	1.30	3.8	71.7	0.008	0.002
88	32.48	0.001	1.13	2.5	71.6	0.007	0.002
89	32.96	0.001	1.01	1.2	71.6	0.007	0.001
90	33.27	0.000	0.94	0.0	71.6	0.006	0.001

Bell Industries
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 620 µW/cm^2

EiRP (Watts)	1000	Height (feet)	303	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	543.63	5285.9	5286.7	0.0006	0.0001
5	7.39	0.182	182.31	1054.6	1058.6	0.005	0.0009
10	6.58	0.220	220.04	523.3	531.3	0.03	0.004
20	15.40	0.029	28.87	253.5	269.8	0.01	0.002
30	13.96	0.040	40.21	159.8	184.5	0.04	0.006
35	18.32	0.015	14.72	131.8	160.9	0.02	0.003
40	18.96	0.013	12.69	110.0	143.5	0.02	0.003
45	18.97	0.013	12.67	92.3	130.5	0.02	0.004
50	27.23	0.002	1.89	77.4	120.4	0.004	0.0007
55	16.35	0.023	23.17	64.6	112.6	0.06	0.01
60	15.27	0.030	29.72	53.3	106.5	0.09	0.01
65	18.49	0.014	14.15	43.0	101.8	0.05	0.007
70	27.20	0.002	1.90	33.6	98.2	0.007	0.001
71	35.20	0.000	0.30	31.8	97.6	0.001	0.0002
72	41.83	0.000	0.07	30.0	97.0	0.0002	0.00004
73	41.24	0.000	0.08	28.2	96.5	0.0003	0.00004
74	36.10	0.000	0.24	26.5	96.0	0.0009	0.0001
75	33.65	0.000	0.43	24.7	95.5	0.002	0.0003
76	33.14	0.000	0.49	23.0	95.1	0.002	0.0003
77	32.18	0.001	0.60	21.3	94.7	0.002	0.0004
78	31.42	0.001	0.72	19.6	94.3	0.003	0.0004
79	30.85	0.001	0.82	17.9	94.0	0.003	0.0005
80	31.58	0.001	0.70	16.3	93.7	0.003	0.0004
81	33.30	0.000	0.47	14.6	93.4	0.002	0.0003
82	35.37	0.000	0.29	13.0	93.2	0.001	0.0002
83	42.36	0.000	0.06	11.3	93.0	0.0002	0.00004
84	36.58	0.000	0.22	9.7	92.8	0.0009	0.0001
85	35.21	0.000	0.30	8.1	92.6	0.001	0.0002
86	35.79	0.000	0.26	6.4	92.5	0.001	0.0002
87	35.81	0.000	0.26	4.8	92.4	0.001	0.0002
88	33.27	0.000	0.47	3.2	92.3	0.002	0.0003
89	32.56	0.001	0.56	1.6	92.3	0.002	0.0004
90	32.35	0.001	0.58	0.0	92.3	0.002	0.0004

Clearwire
88018 Stamford (Catoona)
Generic - Microwave Dish 0° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	105	Height (feet)	300	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	1.00	0.794	50.96	5233.6	5234.4	0.00006	0.00001
5	12.00	0.063	4.05	1044.2	1048.2	0.0001	0.00001
10	18.00	0.016	1.02	518.1	526.1	0.0001	0.00001
20	25.00	0.003	0.20	251.0	267.1	0.0001	0.00001
30	29.00	0.001	0.08	158.2	182.7	0.00008	0.00001
35	29.00	0.001	0.08	130.5	159.3	0.0001	0.00001
40	29.00	0.001	0.08	108.9	142.1	0.0001	0.00001
45	29.00	0.001	0.08	91.4	129.2	0.0002	0.00002
50	29.00	0.001	0.08	76.6	119.2	0.0002	0.00002
55	29.00	0.001	0.08	64.0	111.5	0.0002	0.00002
60	29.00	0.001	0.08	52.7	105.5	0.0002	0.00002
65	29.00	0.001	0.08	42.6	100.8	0.0003	0.00003
70	29.00	0.001	0.08	33.2	97.2	0.0003	0.00003
71	29.00	0.001	0.08	31.5	96.6	0.0003	0.00003
72	29.00	0.001	0.08	29.7	96.0	0.0003	0.00003
73	29.00	0.001	0.08	27.9	95.5	0.0003	0.00003
74	29.00	0.001	0.08	26.2	95.0	0.0003	0.00003
75	29.00	0.001	0.08	24.5	94.6	0.0003	0.00003
76	29.00	0.001	0.08	22.8	94.2	0.0003	0.00003
77	29.00	0.001	0.08	21.1	93.8	0.0003	0.00003
78	29.00	0.001	0.08	19.4	93.4	0.0003	0.00003
79	29.00	0.001	0.08	17.8	93.1	0.0003	0.00003
80	29.00	0.001	0.08	16.1	92.8	0.0003	0.00003
81	29.00	0.001	0.08	14.5	92.5	0.0003	0.00003
82	29.00	0.001	0.08	12.8	92.2	0.0003	0.00003
83	29.00	0.001	0.08	11.2	92.0	0.0003	0.00003
84	29.00	0.001	0.08	9.6	91.9	0.0003	0.00003
85	29.00	0.001	0.08	8.0	91.7	0.0003	0.00003
86	29.00	0.001	0.08	6.4	91.6	0.0003	0.00003
87	29.00	0.001	0.08	4.8	91.5	0.0003	0.00003
88	29.00	0.001	0.08	3.2	91.4	0.0003	0.00003
89	29.00	0.001	0.08	1.6	91.4	0.0003	0.00003
90	29.00	0.001	0.08	0.0	91.4	0.0003	0.00003

Clearwire
88018 Stamford (Catoona)
ARGUS - LLPX310R-V1 30° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	167	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.20	0.955	1166.89	2913.3	2913.8	0.005	0.0005
5	5.60	0.275	336.53	581.2	583.5	0.03	0.003
10	18.20	0.015	18.49	288.4	292.8	0.007	0.0007
20	23.20	0.005	5.85	139.7	148.7	0.009	0.0009
30	29.80	0.001	1.28	88.1	101.7	0.004	0.0004
35	22.60	0.005	6.71	72.6	88.7	0.03	0.003
40	33.10	0.000	0.60	60.6	79.1	0.003	0.0003
45	28.50	0.001	1.73	50.8	71.9	0.01	0.001
50	28.60	0.001	1.69	42.7	66.4	0.01	0.001
55	31.50	0.001	0.87	35.6	62.1	0.007	0.0007
60	32.80	0.001	0.64	29.4	58.7	0.006	0.0006
65	34.30	0.000	0.45	23.7	56.1	0.005	0.0005
70	36.40	0.000	0.28	18.5	54.1	0.003	0.0003
71	36.00	0.000	0.31	17.5	53.8	0.004	0.0004
72	35.30	0.000	0.36	16.5	53.5	0.004	0.0004
73	34.80	0.000	0.40	15.6	53.2	0.005	0.0005
74	34.30	0.000	0.45	14.6	52.9	0.005	0.0005
75	33.60	0.000	0.53	13.6	52.6	0.006	0.0006
76	32.90	0.001	0.63	12.7	52.4	0.008	0.0008
77	32.50	0.001	0.69	11.7	52.2	0.008	0.0008
78	32.50	0.001	0.69	10.8	52.0	0.008	0.0008
79	33.00	0.001	0.61	9.9	51.8	0.008	0.0008
80	33.80	0.000	0.51	9.0	51.6	0.006	0.0006
81	34.90	0.000	0.40	8.0	51.5	0.005	0.0005
82	36.10	0.000	0.30	7.2	51.4	0.004	0.0004
83	36.60	0.000	0.27	6.2	51.2	0.003	0.0003
84	36.40	0.000	0.28	5.3	51.1	0.004	0.0004
85	36.30	0.000	0.29	4.4	51.0	0.004	0.0004
86	36.80	0.000	0.26	3.6	51.0	0.003	0.0003
87	37.90	0.000	0.20	2.7	50.9	0.003	0.0003
88	39.70	0.000	0.13	1.8	50.9	0.002	0.0002
89	42.60	0.000	0.07	0.9	50.9	0.0009	0.00009
90	45.00	0.000	0.04	0.0	50.8	0.0005	0.00005

Clearwire
88018 Stamford (Catoona)
ARGUS - LLPX310R-V1 150° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	167	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.20	0.955	1166.89	2913.3	2913.8	0.005	0.0005
5	5.60	0.275	336.53	581.2	583.5	0.03	0.003
10	18.20	0.015	18.49	288.4	292.8	0.007	0.0007
20	23.20	0.005	5.85	139.7	148.7	0.009	0.0009
30	29.80	0.001	1.28	88.1	101.7	0.004	0.0004
35	22.60	0.005	6.71	72.6	88.7	0.03	0.003
40	33.10	0.000	0.60	60.6	79.1	0.003	0.0003
45	28.50	0.001	1.73	50.8	71.9	0.01	0.001
50	28.60	0.001	1.69	42.7	66.4	0.01	0.001
55	31.50	0.001	0.87	35.6	62.1	0.007	0.0007
60	32.80	0.001	0.64	29.4	58.7	0.006	0.0006
65	34.30	0.000	0.45	23.7	56.1	0.005	0.0005
70	36.40	0.000	0.28	18.5	54.1	0.003	0.0003
71	36.00	0.000	0.31	17.5	53.8	0.004	0.0004
72	35.30	0.000	0.36	16.5	53.5	0.004	0.0004
73	34.80	0.000	0.40	15.6	53.2	0.005	0.0005
74	34.30	0.000	0.45	14.6	52.9	0.005	0.0005
75	33.60	0.000	0.53	13.6	52.6	0.006	0.0006
76	32.90	0.001	0.63	12.7	52.4	0.008	0.0008
77	32.50	0.001	0.69	11.7	52.2	0.008	0.0008
78	32.50	0.001	0.69	10.8	52.0	0.008	0.0008
79	33.00	0.001	0.61	9.9	51.8	0.008	0.0008
80	33.80	0.000	0.51	9.0	51.6	0.006	0.0006
81	34.90	0.000	0.40	8.0	51.5	0.005	0.0005
82	36.10	0.000	0.30	7.2	51.4	0.004	0.0004
83	36.60	0.000	0.27	6.2	51.2	0.003	0.0003
84	36.40	0.000	0.28	5.3	51.1	0.004	0.0004
85	36.30	0.000	0.29	4.4	51.0	0.004	0.0004
86	36.80	0.000	0.26	3.6	51.0	0.003	0.0003
87	37.90	0.000	0.20	2.7	50.9	0.003	0.0003
88	39.70	0.000	0.13	1.8	50.9	0.002	0.0002
89	42.60	0.000	0.07	0.9	50.9	0.0009	0.00009
90	45.00	0.000	0.04	0.0	50.8	0.0005	0.00005

Clearwire
88018 Stamford (Catoona)
ARGUS - LLPX310R-V1 270° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	167	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.20	0.955	1166.89	2913.3	2913.8	0.005	0.0005
5	5.60	0.275	336.53	581.2	583.5	0.03	0.003
10	18.20	0.015	18.49	288.4	292.8	0.007	0.0007
20	23.20	0.005	5.85	139.7	148.7	0.009	0.0009
30	29.80	0.001	1.28	88.1	101.7	0.004	0.0004
35	22.60	0.005	6.71	72.6	88.7	0.03	0.003
40	33.10	0.000	0.60	60.6	79.1	0.003	0.0003
45	28.50	0.001	1.73	50.8	71.9	0.01	0.001
50	28.60	0.001	1.69	42.7	66.4	0.01	0.001
55	31.50	0.001	0.87	35.6	62.1	0.007	0.0007
60	32.80	0.001	0.64	29.4	58.7	0.006	0.0006
65	34.30	0.000	0.45	23.7	56.1	0.005	0.0005
70	36.40	0.000	0.28	18.5	54.1	0.003	0.0003
71	36.00	0.000	0.31	17.5	53.8	0.004	0.0004
72	35.30	0.000	0.36	16.5	53.5	0.004	0.0004
73	34.80	0.000	0.40	15.6	53.2	0.005	0.0005
74	34.30	0.000	0.45	14.6	52.9	0.005	0.0005
75	33.60	0.000	0.53	13.6	52.6	0.006	0.0006
76	32.90	0.001	0.63	12.7	52.4	0.008	0.0008
77	32.50	0.001	0.69	11.7	52.2	0.008	0.0008
78	32.50	0.001	0.69	10.8	52.0	0.008	0.0008
79	33.00	0.001	0.61	9.9	51.8	0.008	0.0008
80	33.80	0.000	0.51	9.0	51.6	0.006	0.0006
81	34.90	0.000	0.40	8.0	51.5	0.005	0.0005
82	36.10	0.000	0.30	7.2	51.4	0.004	0.0004
83	36.60	0.000	0.27	6.2	51.2	0.003	0.0003
84	36.40	0.000	0.28	5.3	51.1	0.004	0.0004
85	36.30	0.000	0.29	4.4	51.0	0.004	0.0004
86	36.80	0.000	0.26	3.6	51.0	0.003	0.0003
87	37.90	0.000	0.20	2.7	50.9	0.003	0.0003
88	39.70	0.000	0.13	1.8	50.9	0.002	0.0002
89	42.60	0.000	0.07	0.9	50.9	0.0009	0.00009
90	45.00	0.000	0.04	0.0	50.8	0.0005	0.00005

Lojack Corp
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 200 µW/cm^2

EiRP (Watts)	200	Height (feet)	310	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	108.73	5408.0	5408.8	0.0001	0.00006
5	7.39	0.182	36.46	1079.0	1083.1	0.001	0.0005
10	6.58	0.220	44.01	535.4	543.6	0.005	0.002
20	15.40	0.029	5.77	259.4	276.0	0.003	0.001
30	13.96	0.040	8.04	163.5	188.8	0.008	0.004
35	18.32	0.015	2.94	134.8	164.6	0.004	0.002
40	18.96	0.013	2.54	112.5	146.9	0.004	0.002
45	18.97	0.013	2.53	94.4	133.5	0.005	0.002
50	27.23	0.002	0.38	79.2	123.2	0.0008	0.0004
55	16.35	0.023	4.63	66.1	115.2	0.01	0.006
60	15.27	0.030	5.94	54.5	109.0	0.02	0.008
65	18.49	0.014	2.83	44.0	104.2	0.009	0.004
70	27.20	0.002	0.38	34.4	100.5	0.001	0.0006
71	35.20	0.000	0.06	32.5	99.8	0.0002	0.0001
72	41.83	0.000	0.01	30.7	99.2	0.00004	0.00002
73	41.24	0.000	0.02	28.9	98.7	0.00005	0.00003
74	36.10	0.000	0.05	27.1	98.2	0.0002	0.00008
75	33.65	0.000	0.09	25.3	97.7	0.0003	0.0002
76	33.14	0.000	0.10	23.5	97.3	0.0003	0.0002
77	32.18	0.001	0.12	21.8	96.9	0.0004	0.0002
78	31.42	0.001	0.14	20.1	96.5	0.0005	0.0003
79	30.85	0.001	0.16	18.4	96.2	0.0006	0.0003
80	31.58	0.001	0.14	16.6	95.8	0.0005	0.0003
81	33.30	0.000	0.09	15.0	95.6	0.0003	0.0002
82	35.37	0.000	0.06	13.3	95.3	0.0002	0.0001
83	42.36	0.000	0.01	11.6	95.1	0.00004	0.00002
84	36.58	0.000	0.04	9.9	94.9	0.0002	0.00008
85	35.21	0.000	0.06	8.3	94.8	0.0002	0.0001
86	35.79	0.000	0.05	6.6	94.6	0.0002	0.0001
87	35.81	0.000	0.05	5.0	94.5	0.0002	0.0001
88	33.27	0.000	0.09	3.3	94.4	0.0004	0.0002
89	32.56	0.001	0.11	1.6	94.4	0.0004	0.0002
90	32.35	0.001	0.12	0.0	94.4	0.0004	0.0002

Marcus Communications
88018 Stamford (Catoona)
Generic - Microwave Dish 60° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	300	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	1.00	0.794	970.58	5233.6	5234.4	0.001	0.0001
5	12.00	0.063	77.10	1044.2	1048.2	0.002	0.0002
10	18.00	0.016	19.37	518.1	526.1	0.002	0.0002
20	25.00	0.003	3.86	251.0	267.1	0.002	0.0002
30	29.00	0.001	1.54	158.2	182.7	0.002	0.0002
35	29.00	0.001	1.54	130.5	159.3	0.002	0.0002
40	29.00	0.001	1.54	108.9	142.1	0.003	0.0003
45	29.00	0.001	1.54	91.4	129.2	0.003	0.0003
50	29.00	0.001	1.54	76.6	119.2	0.004	0.0004
55	29.00	0.001	1.54	64.0	111.5	0.004	0.0004
60	29.00	0.001	1.54	52.7	105.5	0.005	0.0005
65	29.00	0.001	1.54	42.6	100.8	0.005	0.0005
70	29.00	0.001	1.54	33.2	97.2	0.005	0.0005
71	29.00	0.001	1.54	31.5	96.6	0.006	0.0006
72	29.00	0.001	1.54	29.7	96.0	0.006	0.0006
73	29.00	0.001	1.54	27.9	95.5	0.006	0.0006
74	29.00	0.001	1.54	26.2	95.0	0.006	0.0006
75	29.00	0.001	1.54	24.5	94.6	0.006	0.0006
76	29.00	0.001	1.54	22.8	94.2	0.006	0.0006
77	29.00	0.001	1.54	21.1	93.8	0.006	0.0006
78	29.00	0.001	1.54	19.4	93.4	0.006	0.0006
79	29.00	0.001	1.54	17.8	93.1	0.006	0.0006
80	29.00	0.001	1.54	16.1	92.8	0.006	0.0006
81	29.00	0.001	1.54	14.5	92.5	0.006	0.0006
82	29.00	0.001	1.54	12.8	92.2	0.006	0.0006
83	29.00	0.001	1.54	11.2	92.0	0.006	0.0006
84	29.00	0.001	1.54	9.6	91.9	0.006	0.0006
85	29.00	0.001	1.54	8.0	91.7	0.006	0.0006
86	29.00	0.001	1.54	6.4	91.6	0.006	0.0006
87	29.00	0.001	1.54	4.8	91.5	0.006	0.0006
88	29.00	0.001	1.54	3.2	91.4	0.006	0.0006
89	29.00	0.001	1.54	1.6	91.4	0.006	0.0006
90	29.00	0.001	1.54	0.0	91.4	0.006	0.0006

Marcus Communications
88018 Stamford (Catoona)
Generic - Microwave Dish 51° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	300	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	1.00	0.794	970.58	5233.6	5234.4	0.001	0.0001
5	12.00	0.063	77.10	1044.2	1048.2	0.002	0.0002
10	18.00	0.016	19.37	518.1	526.1	0.002	0.0002
20	25.00	0.003	3.86	251.0	267.1	0.002	0.0002
30	29.00	0.001	1.54	158.2	182.7	0.002	0.0002
35	29.00	0.001	1.54	130.5	159.3	0.002	0.0002
40	29.00	0.001	1.54	108.9	142.1	0.003	0.0003
45	29.00	0.001	1.54	91.4	129.2	0.003	0.0003
50	29.00	0.001	1.54	76.6	119.2	0.004	0.0004
55	29.00	0.001	1.54	64.0	111.5	0.004	0.0004
60	29.00	0.001	1.54	52.7	105.5	0.005	0.0005
65	29.00	0.001	1.54	42.6	100.8	0.005	0.0005
70	29.00	0.001	1.54	33.2	97.2	0.005	0.0005
71	29.00	0.001	1.54	31.5	96.6	0.006	0.0006
72	29.00	0.001	1.54	29.7	96.0	0.006	0.0006
73	29.00	0.001	1.54	27.9	95.5	0.006	0.0006
74	29.00	0.001	1.54	26.2	95.0	0.006	0.0006
75	29.00	0.001	1.54	24.5	94.6	0.006	0.0006
76	29.00	0.001	1.54	22.8	94.2	0.006	0.0006
77	29.00	0.001	1.54	21.1	93.8	0.006	0.0006
78	29.00	0.001	1.54	19.4	93.4	0.006	0.0006
79	29.00	0.001	1.54	17.8	93.1	0.006	0.0006
80	29.00	0.001	1.54	16.1	92.8	0.006	0.0006
81	29.00	0.001	1.54	14.5	92.5	0.006	0.0006
82	29.00	0.001	1.54	12.8	92.2	0.006	0.0006
83	29.00	0.001	1.54	11.2	92.0	0.006	0.0006
84	29.00	0.001	1.54	9.6	91.9	0.006	0.0006
85	29.00	0.001	1.54	8.0	91.7	0.006	0.0006
86	29.00	0.001	1.54	6.4	91.6	0.006	0.0006
87	29.00	0.001	1.54	4.8	91.5	0.006	0.0006
88	29.00	0.001	1.54	3.2	91.4	0.006	0.0006
89	29.00	0.001	1.54	1.6	91.4	0.006	0.0006
90	29.00	0.001	1.54	0.0	91.4	0.006	0.0006

Marcus Communications
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure
(MPE): 300 µW/cm^2

EiRP (Watts)	500	Height (feet)	301	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	271.81	5251.0	5251.8	0.0003	0.0001
5	7.39	0.182	91.15	1047.6	1051.6	0.003	0.001
10	6.58	0.220	110.02	519.8	527.8	0.01	0.004
20	15.40	0.029	14.44	251.8	268.0	0.007	0.002
30	13.96	0.040	20.10	158.8	183.3	0.02	0.007
35	18.32	0.015	7.36	130.9	159.8	0.01	0.003
40	18.96	0.013	6.35	109.2	142.6	0.01	0.003
45	18.97	0.013	6.33	91.7	129.6	0.01	0.004
50	27.23	0.002	0.95	76.9	119.6	0.002	0.0007
55	16.35	0.023	11.58	64.2	111.9	0.03	0.01
60	15.27	0.030	14.86	52.9	105.8	0.04	0.01
65	18.49	0.014	7.08	42.7	101.1	0.02	0.008
70	27.20	0.002	0.95	33.4	97.5	0.003	0.001
71	35.20	0.000	0.15	31.6	96.9	0.0005	0.0002
72	41.83	0.000	0.03	29.8	96.4	0.0001	0.00004
73	41.24	0.000	0.04	28.0	95.8	0.0001	0.00005
74	36.10	0.000	0.12	26.3	95.4	0.0005	0.0002
75	33.65	0.000	0.22	24.6	94.9	0.0008	0.0003
76	33.14	0.000	0.24	22.8	94.5	0.001	0.0003
77	32.18	0.001	0.30	21.2	94.1	0.001	0.0004
78	31.42	0.001	0.36	19.5	93.7	0.001	0.0005
79	30.85	0.001	0.41	17.8	93.4	0.002	0.0005
80	31.58	0.001	0.35	16.2	93.1	0.001	0.0004
81	33.30	0.000	0.23	14.5	92.8	0.001	0.0003
82	35.37	0.000	0.14	12.9	92.6	0.0006	0.0002
83	42.36	0.000	0.03	11.2	92.3	0.0001	0.00004
84	36.58	0.000	0.11	9.6	92.2	0.0004	0.0001
85	35.21	0.000	0.15	8.0	92.0	0.0006	0.0002
86	35.79	0.000	0.13	6.4	91.9	0.0005	0.0002
87	35.81	0.000	0.13	4.8	91.8	0.0005	0.0002
88	33.27	0.000	0.24	3.2	91.7	0.001	0.0003
89	32.56	0.001	0.28	1.6	91.7	0.001	0.0004
90	32.35	0.001	0.29	0.0	91.7	0.001	0.0004

Marcus Communications
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure
(MPE): 300 µW/cm^2

EiRP (Watts)	200	Height (feet)	207	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	108.73	3611.2	3611.7	0.0003	0.0001
5	7.39	0.182	36.46	720.5	723.2	0.002	0.0008
10	6.58	0.220	44.01	357.5	363.0	0.01	0.004
20	15.40	0.029	5.77	173.2	184.3	0.006	0.002
30	13.96	0.040	8.04	109.2	126.1	0.02	0.006
35	18.32	0.015	2.94	90.0	109.9	0.008	0.003
40	18.96	0.013	2.54	75.1	98.1	0.009	0.003
45	18.97	0.013	2.53	63.0	89.1	0.01	0.004
50	27.23	0.002	0.38	52.9	82.3	0.002	0.0006
55	16.35	0.023	4.63	44.1	77.0	0.03	0.009
60	15.27	0.030	5.94	36.4	72.8	0.04	0.01
65	18.49	0.014	2.83	29.4	69.6	0.02	0.007
70	27.20	0.002	0.38	22.9	67.1	0.003	0.001
71	35.20	0.000	0.06	21.7	66.7	0.0005	0.0002
72	41.83	0.000	0.01	20.5	66.3	0.0001	0.00003
73	41.24	0.000	0.02	19.3	65.9	0.0001	0.00004
74	36.10	0.000	0.05	18.1	65.6	0.0004	0.0001
75	33.65	0.000	0.09	16.9	65.3	0.0007	0.0002
76	33.14	0.000	0.10	15.7	65.0	0.0008	0.0003
77	32.18	0.001	0.12	14.6	64.7	0.001	0.0003
78	31.42	0.001	0.14	13.4	64.4	0.001	0.0004
79	30.85	0.001	0.16	12.2	64.2	0.001	0.0004
80	31.58	0.001	0.14	11.1	64.0	0.001	0.0004
81	33.30	0.000	0.09	10.0	63.8	0.0008	0.0003
82	35.37	0.000	0.06	8.9	63.6	0.0005	0.0002
83	42.36	0.000	0.01	7.7	63.5	0.0001	0.00003
84	36.58	0.000	0.04	6.6	63.4	0.0004	0.0001
85	35.21	0.000	0.06	5.5	63.3	0.0005	0.0002
86	35.79	0.000	0.05	4.4	63.2	0.0004	0.0001
87	35.81	0.000	0.05	3.3	63.1	0.0004	0.0001
88	33.27	0.000	0.09	2.2	63.1	0.0008	0.0003
89	32.56	0.001	0.11	1.1	63.0	0.001	0.0003
90	32.35	0.001	0.12	0.0	63.0	0.001	0.0003

Marcus Communications
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure
(MPE): 300 µW/cm^2

EiRP (Watts)	200	Height (feet)	107	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	108.73	1866.6	1866.9	0.001	0.0003
5	7.39	0.182	36.46	372.4	373.8	0.009	0.003
10	6.58	0.220	44.01	184.8	187.6	0.04	0.01
20	15.40	0.029	5.77	89.5	95.3	0.02	0.007
30	13.96	0.040	8.04	56.4	65.2	0.06	0.02
35	18.32	0.015	2.94	46.5	56.8	0.03	0.01
40	18.96	0.013	2.54	38.8	50.7	0.03	0.01
45	18.97	0.013	2.53	32.6	46.1	0.04	0.01
50	27.23	0.002	0.38	27.3	42.5	0.007	0.002
55	16.35	0.023	4.63	22.8	39.8	0.1	0.03
60	15.27	0.030	5.94	18.8	37.6	0.14	0.05
65	18.49	0.014	2.83	15.2	36.0	0.07	0.02
70	27.20	0.002	0.38	11.9	34.7	0.01	0.004
71	35.20	0.000	0.06	11.2	34.5	0.002	0.0006
72	41.83	0.000	0.01	10.6	34.3	0.0004	0.0001
73	41.24	0.000	0.02	10.0	34.1	0.0004	0.0001
74	36.10	0.000	0.05	9.3	33.9	0.001	0.0005
75	33.65	0.000	0.09	8.7	33.7	0.003	0.0008
76	33.14	0.000	0.10	8.1	33.6	0.003	0.001
77	32.18	0.001	0.12	7.5	33.4	0.004	0.001
78	31.42	0.001	0.14	6.9	33.3	0.004	0.001
79	30.85	0.001	0.16	6.3	33.2	0.005	0.002
80	31.58	0.001	0.14	5.8	33.1	0.004	0.001
81	33.30	0.000	0.09	5.2	33.0	0.003	0.001
82	35.37	0.000	0.06	4.6	32.9	0.002	0.0006
83	42.36	0.000	0.01	4.0	32.8	0.0004	0.0001
84	36.58	0.000	0.04	3.4	32.8	0.001	0.0005
85	35.21	0.000	0.06	2.8	32.7	0.002	0.0006
86	35.79	0.000	0.05	2.3	32.7	0.002	0.0005
87	35.81	0.000	0.05	1.7	32.6	0.002	0.0005
88	33.27	0.000	0.09	1.1	32.6	0.003	0.001
89	32.56	0.001	0.11	0.6	32.6	0.003	0.001
90	32.35	0.001	0.12	0.0	32.6	0.004	0.001

MetroPCS
88018 Stamford (Catoona)
Kathrein-Scala - 80010504V01_1920-MHz 60° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	160	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	2791.2	2791.7	0.005	0.0005
5	4.43	0.361	440.59	556.9	559.0	0.05	0.005
10	18.89	0.013	15.78	276.3	280.6	0.007	0.0007
20	25.94	0.003	3.11	133.9	142.4	0.005	0.0005
30	32.27	0.001	0.72	84.4	97.4	0.003	0.0003
35	19.82	0.010	12.74	69.6	84.9	0.06	0.006
40	21.02	0.008	9.66	58.1	75.8	0.06	0.006
45	27.73	0.002	2.06	48.7	68.9	0.01	0.001
50	26.26	0.002	2.89	40.9	63.6	0.02	0.002
55	27.09	0.002	2.39	34.1	59.5	0.02	0.002
60	24.63	0.003	4.21	28.1	56.3	0.04	0.004
65	24.73	0.003	4.11	22.7	53.8	0.05	0.005
70	24.21	0.004	4.63	17.7	51.8	0.06	0.006
71	24.51	0.004	4.33	16.8	51.5	0.05	0.005
72	25.27	0.003	3.63	15.8	51.2	0.05	0.005
73	26.45	0.002	2.77	14.9	51.0	0.04	0.004
74	27.91	0.002	1.98	14.0	50.7	0.03	0.003
75	29.32	0.001	1.43	13.0	50.4	0.02	0.002
76	30.23	0.001	1.16	12.2	50.2	0.02	0.002
77	30.38	0.001	1.12	11.2	50.0	0.01	0.001
78	29.97	0.001	1.23	10.4	49.8	0.02	0.002
79	29.47	0.001	1.38	9.5	49.6	0.02	0.002
80	29.33	0.001	1.43	8.6	49.5	0.02	0.002
81	29.81	0.001	1.28	7.7	49.3	0.02	0.002
82	31.06	0.001	0.96	6.8	49.2	0.01	0.001
83	33.00	0.001	0.61	6.0	49.1	0.008	0.0008
84	35.28	0.000	0.36	5.1	49.0	0.005	0.0005
85	37.06	0.000	0.24	4.3	48.9	0.003	0.0003
86	37.63	0.000	0.21	3.4	48.8	0.003	0.0003
87	37.02	0.000	0.24	2.6	48.8	0.003	0.0003
88	35.67	0.000	0.33	1.7	48.8	0.005	0.0005
89	34.30	0.000	0.45	0.8	48.7	0.006	0.0006
90	33.51	0.000	0.54	0.0	48.7	0.008	0.0008

MetroPCS
88018 Stamford (Catoona)
Kathrein-Scala - 80010504V01_1920-MHz 180° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	160	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	2791.2	2791.7	0.005	0.0005
5	4.43	0.361	440.59	556.9	559.0	0.05	0.005
10	18.89	0.013	15.78	276.3	280.6	0.007	0.0007
20	25.94	0.003	3.11	133.9	142.4	0.005	0.0005
30	32.27	0.001	0.72	84.4	97.4	0.003	0.0003
35	19.82	0.010	12.74	69.6	84.9	0.06	0.006
40	21.02	0.008	9.66	58.1	75.8	0.06	0.006
45	27.73	0.002	2.06	48.7	68.9	0.01	0.001
50	26.26	0.002	2.89	40.9	63.6	0.02	0.002
55	27.09	0.002	2.39	34.1	59.5	0.02	0.002
60	24.63	0.003	4.21	28.1	56.3	0.04	0.004
65	24.73	0.003	4.11	22.7	53.8	0.05	0.005
70	24.21	0.004	4.63	17.7	51.8	0.06	0.006
71	24.51	0.004	4.33	16.8	51.5	0.05	0.005
72	25.27	0.003	3.63	15.8	51.2	0.05	0.005
73	26.45	0.002	2.77	14.9	51.0	0.04	0.004
74	27.91	0.002	1.98	14.0	50.7	0.03	0.003
75	29.32	0.001	1.43	13.0	50.4	0.02	0.002
76	30.23	0.001	1.16	12.2	50.2	0.02	0.002
77	30.38	0.001	1.12	11.2	50.0	0.01	0.001
78	29.97	0.001	1.23	10.4	49.8	0.02	0.002
79	29.47	0.001	1.38	9.5	49.6	0.02	0.002
80	29.33	0.001	1.43	8.6	49.5	0.02	0.002
81	29.81	0.001	1.28	7.7	49.3	0.02	0.002
82	31.06	0.001	0.96	6.8	49.2	0.01	0.001
83	33.00	0.001	0.61	6.0	49.1	0.008	0.0008
84	35.28	0.000	0.36	5.1	49.0	0.005	0.0005
85	37.06	0.000	0.24	4.3	48.9	0.003	0.0003
86	37.63	0.000	0.21	3.4	48.8	0.003	0.0003
87	37.02	0.000	0.24	2.6	48.8	0.003	0.0003
88	35.67	0.000	0.33	1.7	48.8	0.005	0.0005
89	34.30	0.000	0.45	0.8	48.7	0.006	0.0006
90	33.51	0.000	0.54	0.0	48.7	0.008	0.0008

MetroPCS
88018 Stamford (Catoona)
Kathrein-Scala - 80010504V01_1920-MHz 300° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	160	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	2791.2	2791.7	0.005	0.0005
5	4.43	0.361	440.59	556.9	559.0	0.05	0.005
10	18.89	0.013	15.78	276.3	280.6	0.007	0.0007
20	25.94	0.003	3.11	133.9	142.4	0.005	0.0005
30	32.27	0.001	0.72	84.4	97.4	0.003	0.0003
35	19.82	0.010	12.74	69.6	84.9	0.06	0.006
40	21.02	0.008	9.66	58.1	75.8	0.06	0.006
45	27.73	0.002	2.06	48.7	68.9	0.01	0.001
50	26.26	0.002	2.89	40.9	63.6	0.02	0.002
55	27.09	0.002	2.39	34.1	59.5	0.02	0.002
60	24.63	0.003	4.21	28.1	56.3	0.04	0.004
65	24.73	0.003	4.11	22.7	53.8	0.05	0.005
70	24.21	0.004	4.63	17.7	51.8	0.06	0.006
71	24.51	0.004	4.33	16.8	51.5	0.05	0.005
72	25.27	0.003	3.63	15.8	51.2	0.05	0.005
73	26.45	0.002	2.77	14.9	51.0	0.04	0.004
74	27.91	0.002	1.98	14.0	50.7	0.03	0.003
75	29.32	0.001	1.43	13.0	50.4	0.02	0.002
76	30.23	0.001	1.16	12.2	50.2	0.02	0.002
77	30.38	0.001	1.12	11.2	50.0	0.01	0.001
78	29.97	0.001	1.23	10.4	49.8	0.02	0.002
79	29.47	0.001	1.38	9.5	49.6	0.02	0.002
80	29.33	0.001	1.43	8.6	49.5	0.02	0.002
81	29.81	0.001	1.28	7.7	49.3	0.02	0.002
82	31.06	0.001	0.96	6.8	49.2	0.01	0.001
83	33.00	0.001	0.61	6.0	49.1	0.008	0.0008
84	35.28	0.000	0.36	5.1	49.0	0.005	0.0005
85	37.06	0.000	0.24	4.3	48.9	0.003	0.0003
86	37.63	0.000	0.21	3.4	48.8	0.003	0.0003
87	37.02	0.000	0.24	2.6	48.8	0.003	0.0003
88	35.67	0.000	0.33	1.7	48.8	0.005	0.0005
89	34.30	0.000	0.45	0.8	48.7	0.006	0.0006
90	33.51	0.000	0.54	0.0	48.7	0.008	0.0008

Sensus Metering Systems
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 226 µW/cm^2

EiRP (Watts)	200	Height (feet)	142	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	108.73	2477.2	2477.6	0.0006	0.0003
5	7.39	0.182	36.46	494.2	496.1	0.005	0.002
10	6.58	0.220	44.01	245.2	249.0	0.02	0.01
20	15.40	0.029	5.77	118.8	126.4	0.01	0.005
30	13.96	0.040	8.04	74.9	86.5	0.04	0.02
35	18.32	0.015	2.94	61.8	75.4	0.02	0.008
40	18.96	0.013	2.54	51.5	67.3	0.02	0.008
45	18.97	0.013	2.53	43.2	61.2	0.02	0.01
50	27.23	0.002	0.38	36.3	56.4	0.004	0.002
55	16.35	0.023	4.63	30.3	52.8	0.06	0.02
60	15.27	0.030	5.94	25.0	49.9	0.08	0.04
65	18.49	0.014	2.83	20.2	47.7	0.04	0.02
70	27.20	0.002	0.38	15.7	46.0	0.006	0.003
71	35.20	0.000	0.06	14.9	45.7	0.001	0.0004
72	41.83	0.000	0.01	14.0	45.5	0.0002	0.0001
73	41.24	0.000	0.02	13.2	45.2	0.0002	0.0001
74	36.10	0.000	0.05	12.4	45.0	0.0008	0.0004
75	33.65	0.000	0.09	11.6	44.8	0.001	0.0006
76	33.14	0.000	0.10	10.8	44.6	0.002	0.0007
77	32.18	0.001	0.12	10.0	44.4	0.002	0.001
78	31.42	0.001	0.14	9.2	44.2	0.002	0.001
79	30.85	0.001	0.16	8.4	44.0	0.003	0.001
80	31.58	0.001	0.14	7.6	43.9	0.002	0.001
81	33.30	0.000	0.09	6.8	43.8	0.002	0.0007
82	35.37	0.000	0.06	6.1	43.7	0.001	0.0004
83	42.36	0.000	0.01	5.3	43.6	0.0002	0.0001
84	36.58	0.000	0.04	4.5	43.5	0.0008	0.0003
85	35.21	0.000	0.06	3.8	43.4	0.001	0.0005
86	35.79	0.000	0.05	3.0	43.4	0.001	0.0004
87	35.81	0.000	0.05	2.3	43.3	0.001	0.0004
88	33.27	0.000	0.09	1.5	43.3	0.002	0.0007
89	32.56	0.001	0.11	0.8	43.2	0.002	0.0009
90	32.35	0.001	0.12	0.0	43.2	0.002	0.001

Sprint
88018 Stamford (Catoona)
RFS - APXVSPP18-C-0-1910R 20° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	150	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	2616.8	2617.2	0.006	0.0006
5	8.32	0.147	179.90	522.1	524.1	0.02	0.002
10	21.36	0.007	8.93	259.0	263.0	0.004	0.0004
20	19.70	0.011	13.09	125.5	133.5	0.02	0.002
30	23.83	0.004	5.06	79.1	91.4	0.02	0.002
35	21.54	0.007	8.57	65.2	79.6	0.05	0.005
40	19.81	0.010	12.77	54.4	71.1	0.08	0.008
45	25.69	0.003	3.30	45.7	64.6	0.03	0.003
50	33.62	0.000	0.53	38.3	59.6	0.005	0.0005
55	37.20	0.000	0.23	32.0	55.8	0.003	0.0003
60	30.58	0.001	1.07	26.4	52.7	0.01	0.001
65	37.66	0.000	0.21	21.3	50.4	0.003	0.0003
70	34.18	0.000	0.47	16.6	48.6	0.007	0.0007
71	34.85	0.000	0.40	15.7	48.3	0.006	0.0006
72	35.84	0.000	0.32	14.8	48.0	0.005	0.0005
73	36.89	0.000	0.25	14.0	47.8	0.004	0.0004
74	38.09	0.000	0.19	13.1	47.5	0.003	0.0003
75	39.71	0.000	0.13	12.2	47.3	0.002	0.0002
76	41.88	0.000	0.08	11.4	47.1	0.001	0.0001
77	44.46	0.000	0.04	10.6	46.9	0.0007	0.00007
78	46.86	0.000	0.03	9.7	46.7	0.0004	0.00004
79	47.94	0.000	0.02	8.9	46.5	0.0003	0.00003
80	47.07	0.000	0.02	8.0	46.4	0.0004	0.00004
81	45.09	0.000	0.04	7.2	46.2	0.0006	0.00006
82	43.18	0.000	0.06	6.4	46.1	0.001	0.0001
83	41.89	0.000	0.08	5.6	46.0	0.001	0.0001
84	41.17	0.000	0.09	4.8	45.9	0.001	0.0001
85	40.76	0.000	0.10	4.0	45.8	0.002	0.0002
86	40.64	0.000	0.11	3.2	45.8	0.002	0.0002
87	41.23	0.000	0.09	2.4	45.7	0.001	0.0001
88	43.12	0.000	0.06	1.6	45.7	0.001	0.0001
89	47.05	0.000	0.02	0.8	45.7	0.0004	0.00004
90	54.93	0.000	0.00	0.0	45.7	0.00006	0.00001

Sprint
88018 Stamford (Catoona)
RFS - APXVSPP18-C-0-1910R 120° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	150	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	2616.8	2617.2	0.006	0.0006
5	8.32	0.147	179.90	522.1	524.1	0.02	0.002
10	21.36	0.007	8.93	259.0	263.0	0.004	0.0004
20	19.70	0.011	13.09	125.5	133.5	0.02	0.002
30	23.83	0.004	5.06	79.1	91.4	0.02	0.002
35	21.54	0.007	8.57	65.2	79.6	0.05	0.005
40	19.81	0.010	12.77	54.4	71.1	0.08	0.008
45	25.69	0.003	3.30	45.7	64.6	0.03	0.003
50	33.62	0.000	0.53	38.3	59.6	0.005	0.0005
55	37.20	0.000	0.23	32.0	55.8	0.003	0.0003
60	30.58	0.001	1.07	26.4	52.7	0.01	0.001
65	37.66	0.000	0.21	21.3	50.4	0.003	0.0003
70	34.18	0.000	0.47	16.6	48.6	0.007	0.0007
71	34.85	0.000	0.40	15.7	48.3	0.006	0.0006
72	35.84	0.000	0.32	14.8	48.0	0.005	0.0005
73	36.89	0.000	0.25	14.0	47.8	0.004	0.0004
74	38.09	0.000	0.19	13.1	47.5	0.003	0.0003
75	39.71	0.000	0.13	12.2	47.3	0.002	0.0002
76	41.88	0.000	0.08	11.4	47.1	0.001	0.0001
77	44.46	0.000	0.04	10.6	46.9	0.0007	0.00007
78	46.86	0.000	0.03	9.7	46.7	0.0004	0.00004
79	47.94	0.000	0.02	8.9	46.5	0.0003	0.00003
80	47.07	0.000	0.02	8.0	46.4	0.0004	0.00004
81	45.09	0.000	0.04	7.2	46.2	0.0006	0.00006
82	43.18	0.000	0.06	6.4	46.1	0.001	0.0001
83	41.89	0.000	0.08	5.6	46.0	0.001	0.0001
84	41.17	0.000	0.09	4.8	45.9	0.001	0.0001
85	40.76	0.000	0.10	4.0	45.8	0.002	0.0002
86	40.64	0.000	0.11	3.2	45.8	0.002	0.0002
87	41.23	0.000	0.09	2.4	45.7	0.001	0.0001
88	43.12	0.000	0.06	1.6	45.7	0.001	0.0001
89	47.05	0.000	0.02	0.8	45.7	0.0004	0.00004
90	54.93	0.000	0.00	0.0	45.7	0.00006	0.00001

Sprint
88018 Stamford (Catoona)
RFS - APXVSPP18-C-0-1910R 200° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	150	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	2616.8	2617.2	0.006	0.0006
5	8.32	0.147	179.90	522.1	524.1	0.02	0.002
10	21.36	0.007	8.93	259.0	263.0	0.004	0.0004
20	19.70	0.011	13.09	125.5	133.5	0.02	0.002
30	23.83	0.004	5.06	79.1	91.4	0.02	0.002
35	21.54	0.007	8.57	65.2	79.6	0.05	0.005
40	19.81	0.010	12.77	54.4	71.1	0.08	0.008
45	25.69	0.003	3.30	45.7	64.6	0.03	0.003
50	33.62	0.000	0.53	38.3	59.6	0.005	0.0005
55	37.20	0.000	0.23	32.0	55.8	0.003	0.0003
60	30.58	0.001	1.07	26.4	52.7	0.01	0.001
65	37.66	0.000	0.21	21.3	50.4	0.003	0.0003
70	34.18	0.000	0.47	16.6	48.6	0.007	0.0007
71	34.85	0.000	0.40	15.7	48.3	0.006	0.0006
72	35.84	0.000	0.32	14.8	48.0	0.005	0.0005
73	36.89	0.000	0.25	14.0	47.8	0.004	0.0004
74	38.09	0.000	0.19	13.1	47.5	0.003	0.0003
75	39.71	0.000	0.13	12.2	47.3	0.002	0.0002
76	41.88	0.000	0.08	11.4	47.1	0.001	0.0001
77	44.46	0.000	0.04	10.6	46.9	0.0007	0.00007
78	46.86	0.000	0.03	9.7	46.7	0.0004	0.00004
79	47.94	0.000	0.02	8.9	46.5	0.0003	0.00003
80	47.07	0.000	0.02	8.0	46.4	0.0004	0.00004
81	45.09	0.000	0.04	7.2	46.2	0.0006	0.00006
82	43.18	0.000	0.06	6.4	46.1	0.001	0.0001
83	41.89	0.000	0.08	5.6	46.0	0.001	0.0001
84	41.17	0.000	0.09	4.8	45.9	0.001	0.0001
85	40.76	0.000	0.10	4.0	45.8	0.002	0.0002
86	40.64	0.000	0.11	3.2	45.8	0.002	0.0002
87	41.23	0.000	0.09	2.4	45.7	0.001	0.0001
88	43.12	0.000	0.06	1.6	45.7	0.001	0.0001
89	47.05	0.000	0.02	0.8	45.7	0.0004	0.00004
90	54.93	0.000	0.00	0.0	45.7	0.00006	0.00001

Sprint
88018 Stamford (Catoona)
RFS - APXVTM14_Broadcast-0-2510+ 20° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	150	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.17	0.962	1174.98	2616.8	2617.2	0.006	0.0006
5	14.32	0.037	45.19	522.1	524.1	0.005	0.0005
10	21.98	0.006	7.75	259.0	263.0	0.004	0.0004
20	20.54	0.009	10.79	125.5	133.5	0.02	0.002
30	31.39	0.001	0.89	79.1	91.4	0.004	0.0004
35	32.80	0.001	0.64	65.2	79.6	0.003	0.0003
40	27.23	0.002	2.31	54.4	71.1	0.02	0.002
45	31.62	0.001	0.84	45.7	64.6	0.007	0.0007
50	36.37	0.000	0.28	38.3	59.6	0.003	0.0003
55	41.44	0.000	0.09	32.0	55.8	0.001	0.0001
60	38.92	0.000	0.16	26.4	52.7	0.002	0.0002
65	40.51	0.000	0.11	21.3	50.4	0.001	0.0001
70	52.65	0.000	0.01	16.6	48.6	0.00009	0.00001
71	46.25	0.000	0.03	15.7	48.3	0.0004	0.00004
72	43.45	0.000	0.05	14.8	48.0	0.0008	0.00008
73	40.08	0.000	0.12	14.0	47.8	0.002	0.0002
74	39.11	0.000	0.15	13.1	47.5	0.002	0.0002
75	39.52	0.000	0.14	12.2	47.3	0.002	0.0002
76	39.70	0.000	0.13	11.4	47.1	0.002	0.0002
77	40.38	0.000	0.11	10.6	46.9	0.002	0.0002
78	43.17	0.000	0.06	9.7	46.7	0.0009	0.00009
79	44.58	0.000	0.04	8.9	46.5	0.0007	0.00007
80	45.43	0.000	0.04	8.0	46.4	0.0006	0.00006
81	44.77	0.000	0.04	7.2	46.2	0.0006	0.00006
82	43.15	0.000	0.06	6.4	46.1	0.001	0.0001
83	43.36	0.000	0.06	5.6	46.0	0.0009	0.00009
84	44.05	0.000	0.05	4.8	45.9	0.0008	0.00008
85	42.85	0.000	0.06	4.0	45.8	0.001	0.0001
86	43.66	0.000	0.05	3.2	45.8	0.0008	0.00008
87	43.29	0.000	0.06	2.4	45.7	0.001	0.0001
88	45.24	0.000	0.04	1.6	45.7	0.0006	0.00006
89	45.31	0.000	0.04	0.8	45.7	0.0006	0.00006
90	46.17	0.000	0.03	0.0	45.7	0.0005	0.00005

Sprint
88018 Stamford (Catoona)
RFS - APXVTM14_Broadcast-0-2510+ 120° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	150	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.17	0.962	1174.98	2616.8	2617.2	0.006	0.0006
5	14.32	0.037	45.19	522.1	524.1	0.005	0.0005
10	21.98	0.006	7.75	259.0	263.0	0.004	0.0004
20	20.54	0.009	10.79	125.5	133.5	0.02	0.002
30	31.39	0.001	0.89	79.1	91.4	0.004	0.0004
35	32.80	0.001	0.64	65.2	79.6	0.003	0.0003
40	27.23	0.002	2.31	54.4	71.1	0.02	0.002
45	31.62	0.001	0.84	45.7	64.6	0.007	0.0007
50	36.37	0.000	0.28	38.3	59.6	0.003	0.0003
55	41.44	0.000	0.09	32.0	55.8	0.001	0.0001
60	38.92	0.000	0.16	26.4	52.7	0.002	0.0002
65	40.51	0.000	0.11	21.3	50.4	0.001	0.0001
70	52.65	0.000	0.01	16.6	48.6	0.00009	0.00001
71	46.25	0.000	0.03	15.7	48.3	0.0004	0.00004
72	43.45	0.000	0.05	14.8	48.0	0.0008	0.00008
73	40.08	0.000	0.12	14.0	47.8	0.002	0.0002
74	39.11	0.000	0.15	13.1	47.5	0.002	0.0002
75	39.52	0.000	0.14	12.2	47.3	0.002	0.0002
76	39.70	0.000	0.13	11.4	47.1	0.002	0.0002
77	40.38	0.000	0.11	10.6	46.9	0.002	0.0002
78	43.17	0.000	0.06	9.7	46.7	0.0009	0.00009
79	44.58	0.000	0.04	8.9	46.5	0.0007	0.00007
80	45.43	0.000	0.04	8.0	46.4	0.0006	0.00006
81	44.77	0.000	0.04	7.2	46.2	0.0006	0.00006
82	43.15	0.000	0.06	6.4	46.1	0.001	0.0001
83	43.36	0.000	0.06	5.6	46.0	0.0009	0.00009
84	44.05	0.000	0.05	4.8	45.9	0.0008	0.00008
85	42.85	0.000	0.06	4.0	45.8	0.001	0.0001
86	43.66	0.000	0.05	3.2	45.8	0.0008	0.00008
87	43.29	0.000	0.06	2.4	45.7	0.001	0.0001
88	45.24	0.000	0.04	1.6	45.7	0.0006	0.00006
89	45.31	0.000	0.04	0.8	45.7	0.0006	0.00006
90	46.17	0.000	0.03	0.0	45.7	0.0005	0.00005

Sprint
88018 Stamford (Catoona)
RFS - APXVTM14_Broadcast-0-2510+ 220° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	150	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.17	0.962	1174.98	2616.8	2617.2	0.006	0.0006
5	14.32	0.037	45.19	522.1	524.1	0.005	0.0005
10	21.98	0.006	7.75	259.0	263.0	0.004	0.0004
20	20.54	0.009	10.79	125.5	133.5	0.02	0.002
30	31.39	0.001	0.89	79.1	91.4	0.004	0.0004
35	32.80	0.001	0.64	65.2	79.6	0.003	0.0003
40	27.23	0.002	2.31	54.4	71.1	0.02	0.002
45	31.62	0.001	0.84	45.7	64.6	0.007	0.0007
50	36.37	0.000	0.28	38.3	59.6	0.003	0.0003
55	41.44	0.000	0.09	32.0	55.8	0.001	0.0001
60	38.92	0.000	0.16	26.4	52.7	0.002	0.0002
65	40.51	0.000	0.11	21.3	50.4	0.001	0.0001
70	52.65	0.000	0.01	16.6	48.6	0.00009	0.00001
71	46.25	0.000	0.03	15.7	48.3	0.0004	0.00004
72	43.45	0.000	0.05	14.8	48.0	0.0008	0.00008
73	40.08	0.000	0.12	14.0	47.8	0.002	0.0002
74	39.11	0.000	0.15	13.1	47.5	0.002	0.0002
75	39.52	0.000	0.14	12.2	47.3	0.002	0.0002
76	39.70	0.000	0.13	11.4	47.1	0.002	0.0002
77	40.38	0.000	0.11	10.6	46.9	0.002	0.0002
78	43.17	0.000	0.06	9.7	46.7	0.0009	0.00009
79	44.58	0.000	0.04	8.9	46.5	0.0007	0.00007
80	45.43	0.000	0.04	8.0	46.4	0.0006	0.00006
81	44.77	0.000	0.04	7.2	46.2	0.0006	0.00006
82	43.15	0.000	0.06	6.4	46.1	0.001	0.0001
83	43.36	0.000	0.06	5.6	46.0	0.0009	0.00009
84	44.05	0.000	0.05	4.8	45.9	0.0008	0.00008
85	42.85	0.000	0.06	4.0	45.8	0.001	0.0001
86	43.66	0.000	0.05	3.2	45.8	0.0008	0.00008
87	43.29	0.000	0.06	2.4	45.7	0.001	0.0001
88	45.24	0.000	0.04	1.6	45.7	0.0006	0.00006
89	45.31	0.000	0.04	0.8	45.7	0.0006	0.00006
90	46.17	0.000	0.03	0.0	45.7	0.0005	0.00005

Sprint
88018 Stamford (Catoona)
ANDREW - DB844H90-XY 10° Sector

Maximum Permissible Exposure
(MPE): 566 µW/cm^2

EiRP (Watts)	2000	Height (feet)	222	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.01	0.998	1995.40	3872.8	3873.4	0.004	0.0008
5	1.00	0.794	1588.66	772.7	775.6	0.09	0.02
10	4.83	0.329	657.70	383.4	389.3	0.14	0.03
20	18.58	0.014	27.74	185.7	197.6	0.02	0.004
30	13.22	0.048	95.29	117.1	135.2	0.17	0.03
35	18.96	0.013	25.41	96.5	117.8	0.06	0.01
40	29.97	0.001	2.01	80.6	105.2	0.006	0.001
45	22.32	0.006	11.72	67.6	95.6	0.04	0.008
50	20.99	0.008	15.92	56.7	88.2	0.07	0.01
55	23.39	0.005	9.16	47.3	82.5	0.04	0.008
60	27.47	0.002	3.58	39.0	78.1	0.02	0.003
65	25.95	0.003	5.08	31.5	74.6	0.03	0.005
70	23.40	0.005	9.14	24.6	71.9	0.06	0.01
71	23.06	0.005	9.89	23.3	71.5	0.06	0.01
72	22.82	0.005	10.45	22.0	71.1	0.07	0.01
73	22.70	0.005	10.74	20.7	70.7	0.07	0.01
74	22.66	0.005	10.84	19.4	70.3	0.07	0.01
75	22.67	0.005	10.82	18.1	70.0	0.07	0.01
76	22.65	0.005	10.87	16.8	69.7	0.07	0.01
77	22.71	0.005	10.72	15.6	69.4	0.07	0.01
78	22.94	0.005	10.16	14.4	69.1	0.07	0.01
79	23.13	0.005	9.73	13.1	68.9	0.07	0.01
80	23.41	0.005	9.12	11.9	68.6	0.06	0.01
81	23.71	0.004	8.51	10.7	68.4	0.06	0.01
82	24.13	0.004	7.73	9.5	68.3	0.06	0.01
83	24.54	0.004	7.03	8.3	68.1	0.05	0.009
84	24.86	0.003	6.53	7.1	68.0	0.05	0.008
85	25.37	0.003	5.81	5.9	67.9	0.04	0.007
86	26.02	0.002	5.00	4.7	67.8	0.04	0.006
87	26.67	0.002	4.31	3.5	67.7	0.03	0.006
88	27.51	0.002	3.55	2.4	67.6	0.03	0.005
89	28.29	0.001	2.97	1.2	67.6	0.02	0.004
90	29.00	0.001	2.52	0.0	67.6	0.02	0.003

Sprint
88018 Stamford (Catoona)
ANDREW - DB844H90-XY 110° Sector

Maximum Permissible Exposure
(MPE): 566 µW/cm^2

EiRP (Watts)	2000	Height (feet)	222	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.01	0.998	1995.40	3872.8	3873.4	0.004	0.0008
5	1.00	0.794	1588.66	772.7	775.6	0.09	0.02
10	4.83	0.329	657.70	383.4	389.3	0.14	0.03
20	18.58	0.014	27.74	185.7	197.6	0.02	0.004
30	13.22	0.048	95.29	117.1	135.2	0.17	0.03
35	18.96	0.013	25.41	96.5	117.8	0.06	0.01
40	29.97	0.001	2.01	80.6	105.2	0.006	0.001
45	22.32	0.006	11.72	67.6	95.6	0.04	0.008
50	20.99	0.008	15.92	56.7	88.2	0.07	0.01
55	23.39	0.005	9.16	47.3	82.5	0.04	0.008
60	27.47	0.002	3.58	39.0	78.1	0.02	0.003
65	25.95	0.003	5.08	31.5	74.6	0.03	0.005
70	23.40	0.005	9.14	24.6	71.9	0.06	0.01
71	23.06	0.005	9.89	23.3	71.5	0.06	0.01
72	22.82	0.005	10.45	22.0	71.1	0.07	0.01
73	22.70	0.005	10.74	20.7	70.7	0.07	0.01
74	22.66	0.005	10.84	19.4	70.3	0.07	0.01
75	22.67	0.005	10.82	18.1	70.0	0.07	0.01
76	22.65	0.005	10.87	16.8	69.7	0.07	0.01
77	22.71	0.005	10.72	15.6	69.4	0.07	0.01
78	22.94	0.005	10.16	14.4	69.1	0.07	0.01
79	23.13	0.005	9.73	13.1	68.9	0.07	0.01
80	23.41	0.005	9.12	11.9	68.6	0.06	0.01
81	23.71	0.004	8.51	10.7	68.4	0.06	0.01
82	24.13	0.004	7.73	9.5	68.3	0.06	0.01
83	24.54	0.004	7.03	8.3	68.1	0.05	0.009
84	24.86	0.003	6.53	7.1	68.0	0.05	0.008
85	25.37	0.003	5.81	5.9	67.9	0.04	0.007
86	26.02	0.002	5.00	4.7	67.8	0.04	0.006
87	26.67	0.002	4.31	3.5	67.7	0.03	0.006
88	27.51	0.002	3.55	2.4	67.6	0.03	0.005
89	28.29	0.001	2.97	1.2	67.6	0.02	0.004
90	29.00	0.001	2.52	0.0	67.6	0.02	0.003

Sprint
88018 Stamford (Catoona)
ANDREW - DB844H90-XY 240° Sector

Maximum Permissible Exposure
(MPE): 566 µW/cm^2

EiRP (Watts)	2000	Height (feet)	222	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.01	0.998	1995.40	3872.8	3873.4	0.004	0.0008
5	1.00	0.794	1588.66	772.7	775.6	0.09	0.02
10	4.83	0.329	657.70	383.4	389.3	0.14	0.03
20	18.58	0.014	27.74	185.7	197.6	0.02	0.004
30	13.22	0.048	95.29	117.1	135.2	0.17	0.03
35	18.96	0.013	25.41	96.5	117.8	0.06	0.01
40	29.97	0.001	2.01	80.6	105.2	0.006	0.001
45	22.32	0.006	11.72	67.6	95.6	0.04	0.008
50	20.99	0.008	15.92	56.7	88.2	0.07	0.01
55	23.39	0.005	9.16	47.3	82.5	0.04	0.008
60	27.47	0.002	3.58	39.0	78.1	0.02	0.003
65	25.95	0.003	5.08	31.5	74.6	0.03	0.005
70	23.40	0.005	9.14	24.6	71.9	0.06	0.01
71	23.06	0.005	9.89	23.3	71.5	0.06	0.01
72	22.82	0.005	10.45	22.0	71.1	0.07	0.01
73	22.70	0.005	10.74	20.7	70.7	0.07	0.01
74	22.66	0.005	10.84	19.4	70.3	0.07	0.01
75	22.67	0.005	10.82	18.1	70.0	0.07	0.01
76	22.65	0.005	10.87	16.8	69.7	0.07	0.01
77	22.71	0.005	10.72	15.6	69.4	0.07	0.01
78	22.94	0.005	10.16	14.4	69.1	0.07	0.01
79	23.13	0.005	9.73	13.1	68.9	0.07	0.01
80	23.41	0.005	9.12	11.9	68.6	0.06	0.01
81	23.71	0.004	8.51	10.7	68.4	0.06	0.01
82	24.13	0.004	7.73	9.5	68.3	0.06	0.01
83	24.54	0.004	7.03	8.3	68.1	0.05	0.009
84	24.86	0.003	6.53	7.1	68.0	0.05	0.008
85	25.37	0.003	5.81	5.9	67.9	0.04	0.007
86	26.02	0.002	5.00	4.7	67.8	0.04	0.006
87	26.67	0.002	4.31	3.5	67.7	0.03	0.006
88	27.51	0.002	3.55	2.4	67.6	0.03	0.005
89	28.29	0.001	2.97	1.2	67.6	0.02	0.004
90	29.00	0.001	2.52	0.0	67.6	0.02	0.003

T-Mobile
88018 Stamford (Catoona)
Ericsson - AIR21 - 2100 80° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	265	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	4623.0	4623.7	0.002	0.0002
5	4.83	0.329	401.82	922.3	925.9	0.02	0.002
10	17.53	0.018	21.58	457.6	464.7	0.003	0.0003
20	24.75	0.003	4.09	221.7	235.9	0.002	0.0002
30	23.48	0.004	5.48	139.8	161.4	0.007	0.0007
35	19.34	0.012	14.22	115.2	140.7	0.02	0.002
40	24.73	0.003	4.11	96.2	125.5	0.009	0.0009
45	26.85	0.002	2.52	80.7	114.1	0.006	0.0006
50	22.65	0.005	6.64	67.7	105.3	0.02	0.002
55	21.74	0.007	8.19	56.5	98.5	0.03	0.003
60	20.26	0.009	11.51	46.6	93.2	0.04	0.004
65	22.22	0.006	7.33	37.6	89.0	0.03	0.003
70	27.01	0.002	2.43	29.4	85.9	0.01	0.001
71	28.88	0.001	1.58	27.8	85.4	0.007	0.0007
72	31.07	0.001	0.96	26.2	84.8	0.004	0.0004
73	33.23	0.000	0.58	24.7	84.4	0.003	0.0003
74	34.72	0.000	0.41	23.1	84.0	0.002	0.0002
75	35.20	0.000	0.37	21.6	83.5	0.002	0.0002
76	35.01	0.000	0.39	20.1	83.2	0.002	0.0002
77	34.82	0.000	0.40	18.6	82.8	0.002	0.0002
78	35.21	0.000	0.37	17.2	82.5	0.002	0.0002
79	36.49	0.000	0.27	15.7	82.2	0.001	0.0001
80	38.73	0.000	0.16	14.2	81.9	0.0008	0.00008
81	41.63	0.000	0.08	12.8	81.7	0.0004	0.00004
82	44.02	0.000	0.05	11.3	81.5	0.0002	0.00002
83	43.62	0.000	0.05	9.9	81.3	0.0003	0.00003
84	40.84	0.000	0.10	8.5	81.1	0.0005	0.00005
85	38.33	0.000	0.18	7.1	81.0	0.001	0.0001
86	37.07	0.000	0.24	5.6	80.9	0.001	0.0001
87	37.31	0.000	0.23	4.2	80.8	0.001	0.0001
88	39.31	0.000	0.14	2.8	80.7	0.0007	0.00007
89	43.92	0.000	0.05	1.4	80.7	0.0003	0.00003
90	56.20	0.000	0.00	0.0	80.7	0.00001	0

T-Mobile
88018 Stamford (Catoona)
Ericsson - AIR21 - 2100 180° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	265	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	4623.0	4623.7	0.002	0.0002
5	4.83	0.329	401.82	922.3	925.9	0.02	0.002
10	17.53	0.018	21.58	457.6	464.7	0.003	0.0003
20	24.75	0.003	4.09	221.7	235.9	0.002	0.0002
30	23.48	0.004	5.48	139.8	161.4	0.007	0.0007
35	19.34	0.012	14.22	115.2	140.7	0.02	0.002
40	24.73	0.003	4.11	96.2	125.5	0.009	0.0009
45	26.85	0.002	2.52	80.7	114.1	0.006	0.0006
50	22.65	0.005	6.64	67.7	105.3	0.02	0.002
55	21.74	0.007	8.19	56.5	98.5	0.03	0.003
60	20.26	0.009	11.51	46.6	93.2	0.04	0.004
65	22.22	0.006	7.33	37.6	89.0	0.03	0.003
70	27.01	0.002	2.43	29.4	85.9	0.01	0.001
71	28.88	0.001	1.58	27.8	85.4	0.007	0.0007
72	31.07	0.001	0.96	26.2	84.8	0.004	0.0004
73	33.23	0.000	0.58	24.7	84.4	0.003	0.0003
74	34.72	0.000	0.41	23.1	84.0	0.002	0.0002
75	35.20	0.000	0.37	21.6	83.5	0.002	0.0002
76	35.01	0.000	0.39	20.1	83.2	0.002	0.0002
77	34.82	0.000	0.40	18.6	82.8	0.002	0.0002
78	35.21	0.000	0.37	17.2	82.5	0.002	0.0002
79	36.49	0.000	0.27	15.7	82.2	0.001	0.0001
80	38.73	0.000	0.16	14.2	81.9	0.0008	0.00008
81	41.63	0.000	0.08	12.8	81.7	0.0004	0.00004
82	44.02	0.000	0.05	11.3	81.5	0.0002	0.00002
83	43.62	0.000	0.05	9.9	81.3	0.0003	0.00003
84	40.84	0.000	0.10	8.5	81.1	0.0005	0.00005
85	38.33	0.000	0.18	7.1	81.0	0.001	0.0001
86	37.07	0.000	0.24	5.6	80.9	0.001	0.0001
87	37.31	0.000	0.23	4.2	80.8	0.001	0.0001
88	39.31	0.000	0.14	2.8	80.7	0.0007	0.00007
89	43.92	0.000	0.05	1.4	80.7	0.0003	0.00003
90	56.20	0.000	0.00	0.0	80.7	0.00001	0

T-Mobile
88018 Stamford (Catoona)
Ericsson - AIR21 - 2100 330° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	2000	Height (feet)	265	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.00	1.000	1221.88	4623.0	4623.7	0.002	0.0002
5	4.83	0.329	401.82	922.3	925.9	0.02	0.002
10	17.53	0.018	21.58	457.6	464.7	0.003	0.0003
20	24.75	0.003	4.09	221.7	235.9	0.002	0.0002
30	23.48	0.004	5.48	139.8	161.4	0.007	0.0007
35	19.34	0.012	14.22	115.2	140.7	0.02	0.002
40	24.73	0.003	4.11	96.2	125.5	0.009	0.0009
45	26.85	0.002	2.52	80.7	114.1	0.006	0.0006
50	22.65	0.005	6.64	67.7	105.3	0.02	0.002
55	21.74	0.007	8.19	56.5	98.5	0.03	0.003
60	20.26	0.009	11.51	46.6	93.2	0.04	0.004
65	22.22	0.006	7.33	37.6	89.0	0.03	0.003
70	27.01	0.002	2.43	29.4	85.9	0.01	0.001
71	28.88	0.001	1.58	27.8	85.4	0.007	0.0007
72	31.07	0.001	0.96	26.2	84.8	0.004	0.0004
73	33.23	0.000	0.58	24.7	84.4	0.003	0.0003
74	34.72	0.000	0.41	23.1	84.0	0.002	0.0002
75	35.20	0.000	0.37	21.6	83.5	0.002	0.0002
76	35.01	0.000	0.39	20.1	83.2	0.002	0.0002
77	34.82	0.000	0.40	18.6	82.8	0.002	0.0002
78	35.21	0.000	0.37	17.2	82.5	0.002	0.0002
79	36.49	0.000	0.27	15.7	82.2	0.001	0.0001
80	38.73	0.000	0.16	14.2	81.9	0.0008	0.00008
81	41.63	0.000	0.08	12.8	81.7	0.0004	0.00004
82	44.02	0.000	0.05	11.3	81.5	0.0002	0.00002
83	43.62	0.000	0.05	9.9	81.3	0.0003	0.00003
84	40.84	0.000	0.10	8.5	81.1	0.0005	0.00005
85	38.33	0.000	0.18	7.1	81.0	0.001	0.0001
86	37.07	0.000	0.24	5.6	80.9	0.001	0.0001
87	37.31	0.000	0.23	4.2	80.8	0.001	0.0001
88	39.31	0.000	0.14	2.8	80.7	0.0007	0.00007
89	43.92	0.000	0.05	1.4	80.7	0.0003	0.00003
90	56.20	0.000	0.00	0.0	80.7	0.00001	0

US Treasury
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 266 µW/cm^2

EiRP (Watts)	100	Height (feet)	245	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	54.36	4274.1	4274.7	0.0001	0.00004
5	7.39	0.182	18.23	852.7	856.0	0.0008	0.0003
10	6.58	0.220	22.00	423.1	429.6	0.004	0.001
20	15.40	0.029	2.89	205.0	218.1	0.002	0.0008
30	13.96	0.040	4.02	129.2	149.2	0.006	0.002
35	18.32	0.015	1.47	106.6	130.1	0.003	0.001
40	18.96	0.013	1.27	88.9	116.1	0.003	0.001
45	18.97	0.013	1.27	74.6	105.5	0.004	0.001
50	27.23	0.002	0.19	62.6	97.4	0.0007	0.0002
55	16.35	0.023	2.32	52.2	91.1	0.01	0.003
60	15.27	0.030	2.97	43.1	86.1	0.01	0.005
65	18.49	0.014	1.42	34.8	82.3	0.007	0.003
70	27.20	0.002	0.19	27.2	79.4	0.001	0.0004
71	35.20	0.000	0.03	25.7	78.9	0.0002	0.00006
72	41.83	0.000	0.01	24.2	78.4	0.00004	0.00001
73	41.24	0.000	0.01	22.8	78.0	0.00004	0.00002
74	36.10	0.000	0.02	21.4	77.6	0.0001	0.00005
75	33.65	0.000	0.04	20.0	77.2	0.0002	0.0001
76	33.14	0.000	0.05	18.6	76.9	0.0003	0.0001
77	32.18	0.001	0.06	17.2	76.6	0.0003	0.0001
78	31.42	0.001	0.07	15.9	76.3	0.0004	0.0002
79	30.85	0.001	0.08	14.5	76.0	0.0005	0.0002
80	31.58	0.001	0.07	13.2	75.8	0.0004	0.0002
81	33.30	0.000	0.05	11.8	75.5	0.0003	0.0001
82	35.37	0.000	0.03	10.5	75.3	0.0002	0.00006
83	42.36	0.000	0.01	9.2	75.2	0.00003	0.00001
84	36.58	0.000	0.02	7.8	75.0	0.0001	0.00005
85	35.21	0.000	0.03	6.5	74.9	0.0002	0.00007
86	35.79	0.000	0.03	5.2	74.8	0.0002	0.00006
87	35.81	0.000	0.03	3.9	74.7	0.0002	0.00006
88	33.27	0.000	0.05	2.6	74.6	0.0003	0.0001
89	32.56	0.001	0.06	1.3	74.6	0.0003	0.0001
90	32.35	0.001	0.06	0.0	74.6	0.0003	0.0001

US Treasury
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 266 µW/cm^2

EiRP (Watts)	100	Height (feet)	205	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	54.36	3576.3	3576.8	0.0001	0.00005
5	7.39	0.182	18.23	713.5	716.2	0.001	0.0004
10	6.58	0.220	22.00	354.0	359.5	0.006	0.002
20	15.40	0.029	2.89	171.5	182.5	0.003	0.001
30	13.96	0.040	4.02	108.1	124.8	0.009	0.003
35	18.32	0.015	1.47	89.2	108.8	0.004	0.002
40	18.96	0.013	1.27	74.4	97.1	0.004	0.002
45	18.97	0.013	1.27	62.4	88.3	0.005	0.002
50	27.23	0.002	0.19	52.4	81.5	0.001	0.0004
55	16.35	0.023	2.32	43.7	76.2	0.01	0.005
60	15.27	0.030	2.97	36.0	72.1	0.02	0.007
65	18.49	0.014	1.42	29.1	68.9	0.01	0.004
70	27.20	0.002	0.19	22.7	66.4	0.001	0.0005
71	35.20	0.000	0.03	21.5	66.0	0.0002	0.00009
72	41.83	0.000	0.01	20.3	65.6	0.00005	0.00002
73	41.24	0.000	0.01	19.1	65.3	0.00006	0.00002
74	36.10	0.000	0.02	17.9	64.9	0.0002	0.00007
75	33.65	0.000	0.04	16.7	64.6	0.0003	0.0001
76	33.14	0.000	0.05	15.6	64.3	0.0004	0.0001
77	32.18	0.001	0.06	14.4	64.1	0.0005	0.0002
78	31.42	0.001	0.07	13.3	63.8	0.0006	0.0002
79	30.85	0.001	0.08	12.1	63.6	0.0007	0.0003
80	31.58	0.001	0.07	11.0	63.4	0.0006	0.0002
81	33.30	0.000	0.05	9.9	63.2	0.0004	0.0001
82	35.37	0.000	0.03	8.8	63.0	0.0002	0.0001
83	42.36	0.000	0.01	7.7	62.9	0.00005	0.00002
84	36.58	0.000	0.02	6.6	62.8	0.0002	0.00007
85	35.21	0.000	0.03	5.5	62.7	0.0003	0.0001
86	35.79	0.000	0.03	4.4	62.6	0.0002	0.00008
87	35.81	0.000	0.03	3.3	62.5	0.0002	0.00008
88	33.27	0.000	0.05	2.2	62.5	0.0004	0.0002
89	32.56	0.001	0.06	1.1	62.4	0.0005	0.0002
90	32.35	0.001	0.06	0.0	62.4	0.0005	0.0002

USA Mobility
88018 Stamford (Catoona)
Antel BCD-80010 - Bcd-80010 0° Sector

Maximum Permissible Exposure (MPE): 600 µW/cm^2

EiRP (Watts)	500	Height (feet)	183	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	488.62	3192.5	3193.0	0.002	0.0003
5	3.90	0.407	203.69	636.9	639.4	0.02	0.003
10	17.10	0.019	9.75	316.0	320.9	0.003	0.0005
20	26.50	0.002	1.12	153.1	162.9	0.001	0.0002
30	34.20	0.000	0.19	96.5	111.4	0.0005	0.00009
35	39.80	0.000	0.05	79.6	97.2	0.0002	0.00003
40	26.40	0.002	1.15	66.4	86.7	0.005	0.0008
45	28.10	0.002	0.77	55.7	78.8	0.004	0.0007
50	37.40	0.000	0.09	46.8	72.7	0.0006	0.0001
55	28.70	0.001	0.67	39.0	68.0	0.005	0.0008
60	22.70	0.005	2.68	32.2	64.3	0.02	0.004
65	23.00	0.005	2.51	26.0	61.5	0.02	0.004
70	26.00	0.003	1.26	20.3	59.3	0.01	0.002
71	26.30	0.002	1.17	19.2	58.9	0.01	0.002
72	26.80	0.002	1.04	18.1	58.6	0.01	0.002
73	26.90	0.002	1.02	17.0	58.3	0.01	0.002
74	27.10	0.002	0.98	16.0	58.0	0.01	0.002
75	27.40	0.002	0.91	14.9	57.7	0.01	0.002
76	27.30	0.002	0.93	13.9	57.4	0.01	0.002
77	27.90	0.002	0.81	12.9	57.2	0.008	0.001
78	28.10	0.002	0.77	11.8	57.0	0.008	0.001
79	28.50	0.001	0.71	10.8	56.8	0.007	0.001
80	28.90	0.001	0.64	9.8	56.6	0.007	0.001
81	28.80	0.001	0.66	8.8	56.4	0.007	0.001
82	29.90	0.001	0.51	7.8	56.3	0.005	0.0009
83	30.10	0.001	0.49	6.8	56.1	0.005	0.0009
84	30.90	0.001	0.41	5.9	56.0	0.004	0.0007
85	31.70	0.001	0.34	4.9	55.9	0.004	0.0006
86	32.60	0.001	0.28	3.9	55.9	0.003	0.0005
87	33.80	0.000	0.21	2.9	55.8	0.002	0.0004
88	35.20	0.000	0.15	2.0	55.8	0.002	0.0003
89	36.00	0.000	0.13	1.0	55.7	0.001	0.0002
90	38.30	0.000	0.07	0.0	55.7	0.0008	0.0001

USA Mobility
88018 Stamford (Catoona)
Antel BCD-80010 - Bcd-80010 120° Sector

Maximum Permissible Exposure (MPE): 600 µW/cm^2

EiRP (Watts)	500	Height (feet)	173	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	0.10	0.977	488.62	3018.0	3018.5	0.002	0.0003
5	3.90	0.407	203.69	602.1	604.4	0.02	0.003
10	17.10	0.019	9.75	298.8	303.4	0.004	0.0006
20	26.50	0.002	1.12	144.7	154.0	0.002	0.0003
30	34.20	0.000	0.19	91.2	105.4	0.0006	0.0001
35	39.80	0.000	0.05	75.2	91.8	0.0002	0.00003
40	26.40	0.002	1.15	62.8	82.0	0.006	0.001
45	28.10	0.002	0.77	52.7	74.5	0.005	0.0008
50	37.40	0.000	0.09	44.2	68.8	0.0006	0.0001
55	28.70	0.001	0.67	36.9	64.3	0.005	0.001
60	22.70	0.005	2.68	30.4	60.8	0.02	0.004
65	23.00	0.005	2.51	24.6	58.1	0.02	0.004
70	26.00	0.003	1.26	19.2	56.1	0.01	0.002
71	26.30	0.002	1.17	18.1	55.7	0.01	0.002
72	26.80	0.002	1.04	17.1	55.4	0.01	0.002
73	26.90	0.002	1.02	16.1	55.1	0.01	0.002
74	27.10	0.002	0.98	15.1	54.8	0.01	0.002
75	27.40	0.002	0.91	14.1	54.5	0.01	0.002
76	27.30	0.002	0.93	13.1	54.3	0.01	0.002
77	27.90	0.002	0.81	12.2	54.1	0.01	0.002
78	28.10	0.002	0.77	11.2	53.9	0.009	0.001
79	28.50	0.001	0.71	10.2	53.7	0.008	0.001
80	28.90	0.001	0.64	9.3	53.5	0.008	0.001
81	28.80	0.001	0.66	8.3	53.3	0.008	0.001
82	29.90	0.001	0.51	7.4	53.2	0.006	0.001
83	30.10	0.001	0.49	6.5	53.1	0.006	0.001
84	30.90	0.001	0.41	5.5	53.0	0.005	0.0008
85	31.70	0.001	0.34	4.6	52.9	0.004	0.0007
86	32.60	0.001	0.28	3.7	52.8	0.003	0.0005
87	33.80	0.000	0.21	2.8	52.8	0.003	0.0004
88	35.20	0.000	0.15	1.8	52.7	0.002	0.0003
89	36.00	0.000	0.13	0.9	52.7	0.002	0.0003
90	38.30	0.000	0.07	0.0	52.7	0.0009	0.0001

XM Satellite
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	1000	Height (feet)	268	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	332.12	4675.3	4676.0	0.0005	0.00005
5	7.39	0.182	111.38	932.8	936.3	0.004	0.0004
10	6.58	0.220	134.43	462.8	470.0	0.02	0.002
20	15.40	0.029	17.64	224.2	238.6	0.01	0.001
30	13.96	0.040	24.56	141.4	163.2	0.03	0.003
35	18.32	0.015	8.99	116.6	142.3	0.01	0.001
40	18.96	0.013	7.75	97.3	127.0	0.02	0.002
45	18.97	0.013	7.74	81.6	115.4	0.02	0.002
50	27.23	0.002	1.16	68.5	106.5	0.003	0.0003
55	16.35	0.023	14.15	57.1	99.6	0.05	0.005
60	15.27	0.030	18.16	47.1	94.2	0.07	0.007
65	18.49	0.014	8.65	38.0	90.0	0.04	0.004
70	27.20	0.002	1.16	29.7	86.8	0.005	0.0005
71	35.20	0.000	0.18	28.1	86.3	0.0008	0.00008
72	41.83	0.000	0.04	26.5	85.8	0.0002	0.00002
73	41.24	0.000	0.05	25.0	85.3	0.0002	0.00002
74	36.10	0.000	0.15	23.4	84.9	0.0007	0.00007
75	33.65	0.000	0.26	21.9	84.5	0.001	0.0001
76	33.14	0.000	0.30	20.4	84.1	0.001	0.0001
77	32.18	0.001	0.37	18.8	83.8	0.002	0.0002
78	31.42	0.001	0.44	17.4	83.4	0.002	0.0002
79	30.85	0.001	0.50	15.9	83.1	0.002	0.0002
80	31.58	0.001	0.43	14.4	82.9	0.002	0.0002
81	33.30	0.000	0.29	12.9	82.6	0.001	0.0001
82	35.37	0.000	0.18	11.5	82.4	0.0009	0.00009
83	42.36	0.000	0.04	10.0	82.2	0.0002	0.00002
84	36.58	0.000	0.13	8.6	82.1	0.0007	0.00007
85	35.21	0.000	0.18	7.1	81.9	0.001	0.0001
86	35.79	0.000	0.16	5.7	81.8	0.0008	0.00008
87	35.81	0.000	0.16	4.3	81.7	0.0008	0.00008
88	33.27	0.000	0.29	2.8	81.7	0.001	0.0001
89	32.56	0.001	0.34	1.4	81.6	0.002	0.0002
90	32.35	0.001	0.36	0.0	81.6	0.002	0.0002

XM Satellite
88018 Stamford (Catoona)
Generic - Omni-450 0° Sector

Maximum Permissible Exposure (MPE): 1000 µW/cm^2

EiRP (Watts)	1000	Height (feet)	260	Downtilt (Degrees)	0

Depression Angle	Relative dBi	Relative Gain	EiRP (Watts) in direction	Dist From Structure(m)	Dist From Antenna(m)	Power Density (µW/cm^2)	Percent of MPE
1	2.65	0.544	332.12	4535.8	4536.4	0.0005	0.00005
5	7.39	0.182	111.38	904.9	908.4	0.005	0.0005
10	6.58	0.220	134.43	449.0	455.9	0.02	0.002
20	15.40	0.029	17.64	217.5	231.5	0.01	0.001
30	13.96	0.040	24.56	137.1	158.3	0.03	0.003
35	18.32	0.015	8.99	113.1	138.0	0.02	0.002
40	18.96	0.013	7.75	94.4	123.2	0.02	0.002
45	18.97	0.013	7.74	79.2	112.0	0.02	0.002
50	27.23	0.002	1.16	66.4	103.4	0.004	0.0004
55	16.35	0.023	14.15	55.4	96.6	0.05	0.005
60	15.27	0.030	18.16	45.7	91.4	0.07	0.007
65	18.49	0.014	8.65	36.9	87.4	0.04	0.004
70	27.20	0.002	1.16	28.8	84.2	0.005	0.0005
71	35.20	0.000	0.18	27.3	83.7	0.0009	0.00009
72	41.83	0.000	0.04	25.7	83.2	0.0002	0.00002
73	41.24	0.000	0.05	24.2	82.8	0.0002	0.00002
74	36.10	0.000	0.15	22.7	82.4	0.0007	0.00007
75	33.65	0.000	0.26	21.2	82.0	0.001	0.0001
76	33.14	0.000	0.30	19.7	81.6	0.001	0.0001
77	32.18	0.001	0.37	18.3	81.2	0.002	0.0002
78	31.42	0.001	0.44	16.8	80.9	0.002	0.0002
79	30.85	0.001	0.50	15.4	80.6	0.003	0.0003
80	31.58	0.001	0.43	14.0	80.4	0.002	0.0002
81	33.30	0.000	0.29	12.5	80.2	0.001	0.0001
82	35.37	0.000	0.18	11.1	80.0	0.001	0.0001
83	42.36	0.000	0.04	9.7	79.8	0.0002	0.00002
84	36.58	0.000	0.13	8.3	79.6	0.0007	0.00007
85	35.21	0.000	0.18	6.9	79.5	0.001	0.0001
86	35.79	0.000	0.16	5.5	79.4	0.0009	0.00009
87	35.81	0.000	0.16	4.2	79.3	0.0009	0.00009
88	33.27	0.000	0.29	2.8	79.2	0.002	0.0002
89	32.56	0.001	0.34	1.4	79.2	0.002	0.0002
90	32.35	0.001	0.36	0.0	79.2	0.002	0.0002