

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 1% % Reflection 2000%

Distance where limits are exceeded	
FCC ft. 1.78	21.3 Inches
BioInitiative ft. 142.00	1704.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	16209.77	10.25	19.27	20.25	4.94	30.25	2.21
0.50	6483.91	10.50	18.37	20.50	4.82	30.50	2.18
0.75	3241.95	10.75	17.52	20.75	4.71	30.75	2.14
1.00	1907.03	11.00	16.74	21.00	4.59	31.00	2.11
1.25	1246.91	11.25	16.00	21.25	4.49	31.25	2.07
1.50	876.20	11.50	15.31	21.50	4.38	31.50	2.04
1.75	648.39	11.75	14.67	21.75	4.28	31.75	2.01
2.00	498.76	12.00	14.06	22.00	4.19	32.00	1.98
2.25	395.36	12.25	13.50	22.25	4.09	32.25	1.95
2.50	320.99	12.50	12.96	22.50	4.00	32.50	1.92
2.75	265.73	12.75	12.46	22.75	3.91	32.75	1.89
3.00	223.58	13.00	11.99	23.00	3.83	33.00	1.86
3.25	190.70	13.25	11.54	23.25	3.75	33.25	1.83
3.50	164.57	13.50	11.11	23.50	3.67	33.50	1.81
3.75	143.45	13.75	10.71	23.75	3.59	33.75	1.78
4.00	126.15	14.00	10.33	24.00	3.52	34.00	1.75
4.25	111.79	14.25	9.98	24.25	3.45	34.25	1.73
4.50	99.75	14.50	9.63	24.50	3.38	34.50	1.70
4.75	89.56	14.75	9.31	24.75	3.31	34.75	1.68
5.00	80.85	15.00	9.00	25.00	3.24	35.00	1.65
5.25	73.35	15.25	8.71	25.25	3.18	35.25	1.63
5.50	66.84	15.50	8.43	25.50	3.12	35.50	1.61
5.75	61.17	15.75	8.17	25.75	3.06	35.75	1.59
6.00	56.19	16.00	7.91	26.00	3.00	36.00	1.56
6.25	51.79	16.25	7.67	26.25	2.94	36.25	1.54
6.50	47.89	16.50	7.44	26.50	2.89	36.50	1.52
6.75	44.41	16.75	7.22	26.75	2.83	36.75	1.50
7.00	41.30	17.00	7.01	27.00	2.78	37.00	1.48
7.25	38.50	17.25	6.81	27.25	2.73	37.25	1.46
7.50	35.98	17.50	6.61	27.50	2.68	37.50	1.44
7.75	33.70	17.75	6.43	27.75	2.63	37.75	1.42
8.00	31.63	18.00	6.25	28.00	2.58	38.00	1.40
8.25	29.74	18.25	6.08	28.25	2.54	38.25	1.38
8.50	28.02	18.50	5.92	28.50	2.49	38.50	1.37
8.75	26.44	18.75	5.76	28.75	2.45	38.75	1.35
9.00	25.00	19.00	5.61	29.00	2.41	39.00	1.33
9.25	23.66	19.25	5.47	29.25	2.37	39.25	1.32
9.50	22.44	19.50	5.33	29.50	2.33	39.50	1.30
9.75	21.30	19.75	5.19	29.75	2.29	39.75	1.28
10.00	20.25	20.00	5.06	30.00	2.25	40.00	1.27

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 1% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 1.78 21.33 Inches
 BioInitiative ft. 142.00 1704.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	1.25	54.25	0.69	68.25	0.43	82.25	0.30
40.50	1.24	54.50	0.68	68.50	0.43	82.50	0.30
40.75	1.22	54.75	0.68	68.75	0.43	82.75	0.30
41.00	1.21	55.00	0.67	69.00	0.43	83.00	0.29
41.25	1.19	55.25	0.66	69.25	0.42	83.25	0.29
41.50	1.18	55.50	0.66	69.50	0.42	83.50	0.29
41.75	1.16	55.75	0.65	69.75	0.42	83.75	0.29
42.00	1.15	56.00	0.65	70.00	0.41	84.00	0.29
42.25	1.14	56.25	0.64	70.25	0.41	84.25	0.29
42.50	1.12	56.50	0.63	70.50	0.41	84.50	0.28
42.75	1.11	56.75	0.63	70.75	0.40	84.75	0.28
43.00	1.10	57.00	0.62	71.00	0.40	85.00	0.28
43.25	1.08	57.25	0.62	71.25	0.40	85.25	0.28
43.50	1.07	57.50	0.61	71.50	0.40	85.50	0.28
43.75	1.06	57.75	0.61	71.75	0.39	85.75	0.28
44.00	1.05	58.00	0.60	72.00	0.39	86.00	0.27
44.25	1.03	58.25	0.60	72.25	0.39	86.25	0.27
44.50	1.02	58.50	0.59	72.50	0.39	86.50	0.27
44.75	1.01	58.75	0.59	72.75	0.38	86.75	0.27
45.00	1.00	59.00	0.58	73.00	0.38	87.00	0.27
45.25	0.99	59.25	0.58	73.25	0.38	87.25	0.27
45.50	0.98	59.50	0.57	73.50	0.38	87.50	0.26
45.75	0.97	59.75	0.57	73.75	0.37	87.75	0.26
46.00	0.96	60.00	0.56	74.00	0.37	88.00	0.26
46.25	0.95	60.25	0.56	74.25	0.37	88.25	0.26
46.50	0.94	60.50	0.55	74.50	0.37	88.50	0.26
46.75	0.93	60.75	0.55	74.75	0.36	88.75	0.26
47.00	0.92	61.00	0.54	75.00	0.36	89.00	0.26
47.25	0.91	61.25	0.54	75.25	0.36	89.25	0.25
47.50	0.90	61.50	0.54	75.50	0.36	89.50	0.25
47.75	0.89	61.75	0.53	75.75	0.35	89.75	0.25
48.00	0.88	62.00	0.53	76.00	0.35	90.00	0.25
48.25	0.87	62.25	0.52	76.25	0.35	90.25	0.25
48.50	0.86	62.50	0.52	76.50	0.35	90.50	0.25
48.75	0.85	62.75	0.51	76.75	0.34	90.75	0.25
49.00	0.84	63.00	0.51	77.00	0.34	91.00	0.24
49.25	0.84	63.25	0.51	77.25	0.34	91.25	0.24
49.50	0.83	63.50	0.50	77.50	0.34	91.50	0.24
49.75	0.82	63.75	0.50	77.75	0.34	91.75	0.24
50.00	0.81	64.00	0.49	78.00	0.33	92.00	0.24
50.25	0.80	64.25	0.49	78.25	0.33	92.25	0.24
50.50	0.79	64.50	0.49	78.50	0.33	92.50	0.24
50.75	0.79	64.75	0.48	78.75	0.33	92.75	0.24
51.00	0.78	65.00	0.48	79.00	0.32	93.00	0.23
51.25	0.77	65.25	0.48	79.25	0.32	93.25	0.23
51.50	0.76	65.50	0.47	79.50	0.32	93.50	0.23
51.75	0.76	65.75	0.47	79.75	0.32	93.75	0.23
52.00	0.75	66.00	0.47	80.00	0.32	94.00	0.23
52.25	0.74	66.25	0.46	80.25	0.31	94.25	0.23
52.50	0.74	66.50	0.46	80.50	0.31	94.50	0.23
52.75	0.73	66.75	0.45	80.75	0.31	94.75	0.23
53.00	0.72	67.00	0.45	81.00	0.31	95.00	0.22
53.25	0.71	67.25	0.45	81.25	0.31	95.25	0.22
53.50	0.71	67.50	0.44	81.50	0.31	95.50	0.22
53.75	0.70	67.75	0.44	81.75	0.30	95.75	0.22
54.00	0.69	68.00	0.44	82.00	0.30	96.00	0.22

Table 16 – 1%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 10% % Reflection 2000%

Distance where limits are exceeded	
FCC ft.	5.67 68.1 Inches
BioInitiative ft.	450.00 5400.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	162097.72	10.25	192.74	20.25	49.40	30.25	22.14
0.50	64839.09	10.50	183.68	20.50	48.21	30.50	21.78
0.75	32419.54	10.75	175.24	20.75	47.05	30.75	21.43
1.00	19070.32	11.00	167.37	21.00	45.94	31.00	21.08
1.25	12469.06	11.25	160.02	21.25	44.87	31.25	20.75
1.50	8762.04	11.50	153.14	21.50	43.83	31.50	20.42
1.75	6483.91	11.75	146.69	21.75	42.83	31.75	20.10
2.00	4987.62	12.00	140.65	22.00	41.86	32.00	19.79
2.25	3953.60	12.25	134.97	22.25	40.92	32.25	19.48
2.50	3209.86	12.50	129.63	22.50	40.02	32.50	19.18
2.75	2657.34	12.75	124.59	22.75	39.14	32.75	18.89
3.00	2235.83	13.00	119.85	23.00	38.30	33.00	18.61
3.25	1907.03	13.25	115.37	23.25	37.48	33.25	18.33
3.50	1645.66	13.50	111.14	23.50	36.69	33.50	18.05
3.75	1434.49	13.75	107.14	23.75	35.92	33.75	17.79
4.00	1261.46	14.00	103.35	24.00	35.17	34.00	17.53
4.25	1117.92	14.25	99.75	24.25	34.45	34.25	17.27
4.50	997.52	14.50	96.34	24.50	33.75	34.50	17.02
4.75	895.57	14.75	93.11	24.75	33.07	34.75	16.78
5.00	808.47	15.00	90.03	25.00	32.42	35.00	16.54
5.25	733.47	15.25	87.10	25.25	31.78	35.25	16.31
5.50	668.44	15.50	84.32	25.50	31.16	35.50	16.08
5.75	611.69	15.75	81.66	25.75	30.56	35.75	15.85
6.00	561.86	16.00	79.13	26.00	29.97	36.00	15.63
6.25	517.88	16.25	76.71	26.25	29.40	36.25	15.42
6.50	478.87	16.50	74.41	26.50	28.85	36.50	15.21
6.75	444.10	16.75	72.20	26.75	28.31	36.75	15.00
7.00	412.99	17.00	70.10	27.00	27.79	37.00	14.80
7.25	385.03	17.25	68.08	27.25	27.28	37.25	14.60
7.50	359.82	17.50	66.15	27.50	26.79	37.50	14.41
7.75	337.00	17.75	64.30	27.75	26.31	37.75	14.22
8.00	316.29	18.00	62.53	28.00	25.84	38.00	14.03
8.25	297.43	18.25	60.82	28.25	25.39	38.25	13.85
8.50	280.20	18.50	59.19	28.50	24.94	38.50	13.67
8.75	264.43	18.75	57.62	28.75	24.51	38.75	13.49
9.00	249.96	19.00	56.12	29.00	24.09	39.00	13.32
9.25	236.64	19.25	54.67	29.25	23.68	39.25	13.15
9.50	224.36	19.50	53.28	29.50	23.28	39.50	12.99
9.75	213.01	19.75	51.94	29.75	22.89	39.75	12.82
10.00	202.50	20.00	50.65	30.00	22.51	40.00	12.66

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections
 $S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$
 S = Power Density uW/cm²
 EIRP = 1.64 * ERP
 pi() = 3.1459
 R = Distance to device
 TA = Time average
 %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 10% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 5.67 68.06 Inches
 BioInitiative ft. 450.00 5400.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	12.51	54.25	6.88	68.25	4.35	82.25	3.00
40.50	12.35	54.50	6.82	68.50	4.32	82.50	2.98
40.75	12.20	54.75	6.76	68.75	4.29	82.75	2.96
41.00	12.05	55.00	6.70	69.00	4.26	83.00	2.94
41.25	11.91	55.25	6.64	69.25	4.23	83.25	2.92
41.50	11.76	55.50	6.58	69.50	4.19	83.50	2.91
41.75	11.62	55.75	6.52	69.75	4.16	83.75	2.89
42.00	11.49	56.00	6.46	70.00	4.14	84.00	2.87
42.25	11.35	56.25	6.40	70.25	4.11	84.25	2.85
42.50	11.22	56.50	6.35	70.50	4.08	84.50	2.84
42.75	11.09	56.75	6.29	70.75	4.05	84.75	2.82
43.00	10.96	57.00	6.24	71.00	4.02	85.00	2.80
43.25	10.83	57.25	6.18	71.25	3.99	85.25	2.79
43.50	10.71	57.50	6.13	71.50	3.96	85.50	2.77
43.75	10.59	57.75	6.08	71.75	3.94	85.75	2.76
44.00	10.47	58.00	6.02	72.00	3.91	86.00	2.74
44.25	10.35	58.25	5.97	72.25	3.88	86.25	2.72
44.50	10.23	58.50	5.92	72.50	3.85	86.50	2.71
44.75	10.12	58.75	5.87	72.75	3.83	86.75	2.69
45.00	10.01	59.00	5.82	73.00	3.80	87.00	2.68
45.25	9.90	59.25	5.77	73.25	3.78	87.25	2.66
45.50	9.79	59.50	5.72	73.50	3.75	87.50	2.65
45.75	9.68	59.75	5.68	73.75	3.73	87.75	2.63
46.00	9.58	60.00	5.63	74.00	3.70	88.00	2.62
46.25	9.47	60.25	5.58	74.25	3.68	88.25	2.60
46.50	9.37	60.50	5.54	74.50	3.65	88.50	2.59
46.75	9.27	60.75	5.49	74.75	3.63	88.75	2.57
47.00	9.17	61.00	5.45	75.00	3.60	89.00	2.56
47.25	9.08	61.25	5.40	75.25	3.58	89.25	2.54
47.50	8.98	61.50	5.36	75.50	3.55	89.50	2.53
47.75	8.89	61.75	5.31	75.75	3.53	89.75	2.52
48.00	8.79	62.00	5.27	76.00	3.51	90.00	2.50
48.25	8.70	62.25	5.23	76.25	3.48	90.25	2.49
48.50	8.61	62.50	5.19	76.50	3.46	90.50	2.47
48.75	8.53	62.75	5.15	76.75	3.44	90.75	2.46
49.00	8.44	63.00	5.11	77.00	3.42	91.00	2.45
49.25	8.35	63.25	5.06	77.25	3.40	91.25	2.43
49.50	8.27	63.50	5.02	77.50	3.37	91.50	2.42
49.75	8.19	63.75	4.99	77.75	3.35	91.75	2.41
50.00	8.10	64.00	4.95	78.00	3.33	92.00	2.39
50.25	8.02	64.25	4.91	78.25	3.31	92.25	2.38
50.50	7.94	64.50	4.87	78.50	3.29	92.50	2.37
50.75	7.87	64.75	4.83	78.75	3.27	92.75	2.36
51.00	7.79	65.00	4.80	79.00	3.25	93.00	2.34
51.25	7.71	65.25	4.76	79.25	3.23	93.25	2.33
51.50	7.64	65.50	4.72	79.50	3.21	93.50	2.32
51.75	7.57	65.75	4.69	79.75	3.19	93.75	2.31
52.00	7.49	66.00	4.65	80.00	3.17	94.00	2.29
52.25	7.42	66.25	4.62	80.25	3.15	94.25	2.28
52.50	7.35	66.50	4.58	80.50	3.13	94.50	2.27
52.75	7.28	66.75	4.55	80.75	3.11	94.75	2.26
53.00	7.21	67.00	4.51	81.00	3.09	95.00	2.25
53.25	7.15	67.25	4.48	81.25	3.07	95.25	2.23
53.50	7.08	67.50	4.45	81.50	3.05	95.50	2.22
53.75	7.01	67.75	4.41	81.75	3.03	95.75	2.21
54.00	6.95	68.00	4.38	82.00	3.01	96.00	2.20

Table 16 – 10%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 20% % Reflection 2000%

Distance where limits are exceeded	
FCC ft.	8.03 96.3 Inches
BioInitiative ft.	637.00 7644.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	324195.44	10.25	385.49	20.25	98.81	30.25	44.28
0.50	129678.18	10.50	367.36	20.50	96.42	30.50	43.56
0.75	64839.09	10.75	350.48	20.75	94.11	30.75	42.85
1.00	38140.64	11.00	334.74	21.00	91.88	31.00	42.17
1.25	24938.11	11.25	320.03	21.25	89.73	31.25	41.49
1.50	17524.08	11.50	306.28	21.50	87.66	31.50	40.84
1.75	12967.82	11.75	293.39	21.75	85.65	31.75	40.20
2.00	9975.24	12.00	281.30	22.00	83.72	32.00	39.57
2.25	7907.21	12.25	269.94	22.25	81.85	32.25	38.96
2.50	6419.71	12.50	259.25	22.50	80.04	32.50	38.36
2.75	5314.68	12.75	249.19	22.75	78.29	32.75	37.78
3.00	4471.66	13.00	239.70	23.00	76.60	33.00	37.21
3.25	3814.06	13.25	230.74	23.25	74.96	33.25	36.65
3.50	3291.32	13.50	222.28	23.50	73.37	33.50	36.11
3.75	2868.99	13.75	214.27	23.75	71.84	33.75	35.58
4.00	2522.92	14.00	206.69	24.00	70.35	34.00	35.05
4.25	2235.83	14.25	199.50	24.25	68.90	34.25	34.54
4.50	1995.05	14.50	192.69	24.50	67.51	34.50	34.05
4.75	1791.14	14.75	186.21	24.75	66.15	34.75	33.56
5.00	1616.93	15.00	180.06	25.00	64.83	35.00	33.08
5.25	1466.95	15.25	174.20	25.25	63.56	35.25	32.61
5.50	1336.89	15.50	168.63	25.50	62.32	35.50	32.15
5.75	1223.38	15.75	163.32	25.75	61.11	35.75	31.71
6.00	1123.73	16.00	158.26	26.00	59.94	36.00	31.27
6.25	1035.77	16.25	153.43	26.25	58.81	36.25	30.84
6.50	957.74	16.50	148.82	26.50	57.70	36.50	30.42
6.75	888.21	16.75	144.41	26.75	56.63	36.75	30.00
7.00	825.98	17.00	140.19	27.00	55.58	37.00	29.60
7.25	770.06	17.25	136.16	27.25	54.57	37.25	29.20
7.50	719.63	17.50	132.30	27.50	53.58	37.50	28.82
7.75	674.00	17.75	128.60	27.75	52.62	37.75	28.44
8.00	632.58	18.00	125.05	28.00	51.69	38.00	28.06
8.25	594.85	18.25	121.65	28.25	50.77	38.25	27.70
8.50	560.41	18.50	118.38	28.50	49.89	38.50	27.34
8.75	528.87	18.75	115.25	28.75	49.02	38.75	26.99
9.00	499.92	19.00	112.24	29.00	48.18	39.00	26.64
9.25	473.28	19.25	109.34	29.25	47.36	39.25	26.30
9.50	448.71	19.50	106.56	29.50	46.56	39.50	25.97
9.75	426.01	19.75	103.88	29.75	45.78	39.75	25.65
10.00	404.99	20.00	101.30	30.00	45.02	40.00	25.33

Notes:

- 1) Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 2) 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 3) 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- 4) Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- 5) TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- 6) Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 20% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 8.03 96.30 Inches
 BioInitiative ft. 637.00 7644.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	25.01	54.25	13.77	68.25	8.70	82.25	5.99
40.50	24.71	54.50	13.64	68.50	8.64	82.50	5.95
40.75	24.40	54.75	13.52	68.75	8.57	82.75	5.92
41.00	24.11	55.00	13.40	69.00	8.51	83.00	5.88
41.25	23.82	55.25	13.28	69.25	8.45	83.25	5.85
41.50	23.53	55.50	13.16	69.50	8.39	83.50	5.81
41.75	23.25	55.75	13.04	69.75	8.33	83.75	5.78
42.00	22.97	56.00	12.92	70.00	8.27	84.00	5.74
42.25	22.70	56.25	12.81	70.25	8.21	84.25	5.71
42.50	22.43	56.50	12.69	70.50	8.15	84.50	5.68
42.75	22.17	56.75	12.58	70.75	8.10	84.75	5.64
43.00	21.92	57.00	12.47	71.00	8.04	85.00	5.61
43.25	21.66	57.25	12.36	71.25	7.98	85.25	5.58
43.50	21.42	57.50	12.26	71.50	7.93	85.50	5.54
43.75	21.17	57.75	12.15	71.75	7.87	85.75	5.51
44.00	20.93	58.00	12.05	72.00	7.82	86.00	5.48
44.25	20.70	58.25	11.94	72.25	7.76	86.25	5.45
44.50	20.46	58.50	11.84	72.50	7.71	86.50	5.42
44.75	20.24	58.75	11.74	72.75	7.66	86.75	5.38
45.00	20.01	59.00	11.64	73.00	7.60	87.00	5.35
45.25	19.79	59.25	11.54	73.25	7.55	87.25	5.32
45.50	19.57	59.50	11.45	73.50	7.50	87.50	5.29
45.75	19.36	59.75	11.35	73.75	7.45	87.75	5.26
46.00	19.15	60.00	11.26	74.00	7.40	88.00	5.23
46.25	18.94	60.25	11.16	74.25	7.35	88.25	5.20
46.50	18.74	60.50	11.07	74.50	7.30	88.50	5.17
46.75	18.54	60.75	10.98	74.75	7.25	88.75	5.14
47.00	18.34	61.00	10.89	75.00	7.20	89.00	5.12
47.25	18.15	61.25	10.80	75.25	7.16	89.25	5.09
47.50	17.96	61.50	10.71	75.50	7.11	89.50	5.06
47.75	17.77	61.75	10.63	75.75	7.06	89.75	5.03
48.00	17.59	62.00	10.54	76.00	7.02	90.00	5.00
48.25	17.41	62.25	10.46	76.25	6.97	90.25	4.98
48.50	17.23	62.50	10.37	76.50	6.92	90.50	4.95
48.75	17.05	62.75	10.29	76.75	6.88	90.75	4.92
49.00	16.88	63.00	10.21	77.00	6.83	91.00	4.89
49.25	16.71	63.25	10.13	77.25	6.79	91.25	4.87
49.50	16.54	63.50	10.05	77.50	6.75	91.50	4.84
49.75	16.37	63.75	9.97	77.75	6.70	91.75	4.81
50.00	16.21	64.00	9.89	78.00	6.66	92.00	4.79
50.25	16.05	64.25	9.82	78.25	6.62	92.25	4.76
50.50	15.89	64.50	9.74	78.50	6.58	92.50	4.74
50.75	15.73	64.75	9.67	78.75	6.53	92.75	4.71
51.00	15.58	65.00	9.59	79.00	6.49	93.00	4.69
51.25	15.43	65.25	9.52	79.25	6.45	93.25	4.66
51.50	15.28	65.50	9.45	79.50	6.41	93.50	4.64
51.75	15.13	65.75	9.37	79.75	6.37	93.75	4.61
52.00	14.99	66.00	9.30	80.00	6.33	94.00	4.59
52.25	14.84	66.25	9.23	80.25	6.29	94.25	4.56
52.50	14.70	66.50	9.16	80.50	6.25	94.50	4.54
52.75	14.56	66.75	9.10	80.75	6.21	94.75	4.51
53.00	14.43	67.00	9.03	81.00	6.18	95.00	4.49
53.25	14.29	67.25	8.96	81.25	6.14	95.25	4.47
53.50	14.16	67.50	8.89	81.50	6.10	95.50	4.44
53.75	14.03	67.75	8.83	81.75	6.06	95.75	4.42
54.00	13.90	68.00	8.76	82.00	6.03	96.00	4.40

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 30% % Reflection 2000%

Distance where limits are exceeded	
FCC ft.	9.83 118.0 Inches
BioInitiative ft.	780.00 9360.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	486293.16	10.25	578.23	20.25	148.21	30.25	66.42
0.50	194517.26	10.50	551.04	20.50	144.62	30.50	65.34
0.75	97258.63	10.75	525.72	20.75	141.16	30.75	64.28
1.00	57210.96	11.00	502.11	21.00	137.82	31.00	63.25
1.25	37407.17	11.25	480.05	21.25	134.60	31.25	62.24
1.50	26286.12	11.50	459.42	21.50	131.48	31.50	61.26
1.75	19451.73	11.75	440.08	21.75	128.48	31.75	60.30
2.00	14962.87	12.00	421.95	22.00	125.58	32.00	59.36
2.25	11860.81	12.25	404.91	22.25	122.77	32.25	58.44
2.50	9629.57	12.50	388.88	22.50	120.06	32.50	57.55
2.75	7972.02	12.75	373.78	22.75	117.43	32.75	56.67
3.00	6707.49	13.00	359.55	23.00	114.90	33.00	55.82
3.25	5721.10	13.25	346.12	23.25	112.44	33.25	54.98
3.50	4936.99	13.50	333.42	23.50	110.06	33.50	54.16
3.75	4303.48	13.75	321.41	23.75	107.75	33.75	53.36
4.00	3784.38	14.00	310.04	24.00	105.52	34.00	52.58
4.25	3353.75	14.25	299.26	24.25	103.36	34.25	51.82
4.50	2992.57	14.50	289.03	24.50	101.26	34.50	51.07
4.75	2686.70	14.75	279.32	24.75	99.22	34.75	50.34
5.00	2425.40	15.00	270.09	25.00	97.25	35.00	49.62
5.25	2200.42	15.25	261.31	25.25	95.33	35.25	48.92
5.50	2005.33	15.50	252.95	25.50	93.47	35.50	48.23
5.75	1835.07	15.75	244.98	25.75	91.67	35.75	47.56
6.00	1685.59	16.00	237.39	26.00	89.91	36.00	46.90
6.25	1553.65	16.25	230.14	26.25	88.21	36.25	46.26
6.50	1436.61	16.50	223.22	26.50	86.55	36.50	45.62
6.75	1332.31	16.75	216.61	26.75	84.94	36.75	45.01
7.00	1238.96	17.00	210.29	27.00	83.38	37.00	44.40
7.25	1155.09	17.25	204.24	27.25	81.85	37.25	43.81
7.50	1079.45	17.50	198.45	27.50	80.37	37.50	43.22
7.75	1011.00	17.75	192.90	27.75	78.93	37.75	42.65
8.00	948.86	18.00	187.58	28.00	77.53	38.00	42.09
8.25	892.28	18.25	182.47	28.25	76.16	38.25	41.55
8.50	840.61	18.50	177.58	28.50	74.83	38.50	41.01
8.75	793.30	18.75	172.87	28.75	73.54	38.75	40.48
9.00	749.87	19.00	168.35	29.00	72.27	39.00	39.96
9.25	709.92	19.25	164.01	29.25	71.04	39.25	39.46
9.50	673.07	19.50	159.83	29.50	69.84	39.50	38.96
9.75	639.02	19.75	155.81	29.75	68.68	39.75	38.47
10.00	607.49	20.00	151.94	30.00	67.54	40.00	37.99

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 30% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 9.83 117.96 Inches
 BioInitiative ft. 780.00 9360.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	37.52	54.25	20.65	68.25	13.05	82.25	8.99
40.50	37.06	54.50	20.46	68.50	12.95	82.50	8.93
40.75	36.60	54.75	20.28	68.75	12.86	82.75	8.88
41.00	36.16	55.00	20.09	69.00	12.77	83.00	8.82
41.25	35.72	55.25	19.91	69.25	12.68	83.25	8.77
41.50	35.29	55.50	19.73	69.50	12.58	83.50	8.72
41.75	34.87	55.75	19.56	69.75	12.49	83.75	8.67
42.00	34.46	56.00	19.38	70.00	12.41	84.00	8.61
42.25	34.05	56.25	19.21	70.25	12.32	84.25	8.56
42.50	33.65	56.50	19.04	70.50	12.23	84.50	8.51
42.75	33.26	56.75	18.87	70.75	12.14	84.75	8.46
43.00	32.87	57.00	18.71	71.00	12.06	85.00	8.41
43.25	32.50	57.25	18.55	71.25	11.97	85.25	8.36
43.50	32.12	57.50	18.39	71.50	11.89	85.50	8.32
43.75	31.76	57.75	18.23	71.75	11.81	85.75	8.27
44.00	31.40	58.00	18.07	72.00	11.73	86.00	8.22
44.25	31.04	58.25	17.91	72.25	11.64	86.25	8.17
44.50	30.70	58.50	17.76	72.50	11.56	86.50	8.12
44.75	30.35	58.75	17.61	72.75	11.49	86.75	8.08
45.00	30.02	59.00	17.46	73.00	11.41	87.00	8.03
45.25	29.69	59.25	17.32	73.25	11.33	87.25	7.98
45.50	29.36	59.50	17.17	73.50	11.25	87.50	7.94
45.75	29.04	59.75	17.03	73.75	11.18	87.75	7.89
46.00	28.73	60.00	16.88	74.00	11.10	88.00	7.85
46.25	28.42	60.25	16.75	74.25	11.03	88.25	7.81
46.50	28.11	60.50	16.61	74.50	10.95	88.50	7.76
46.75	27.81	60.75	16.47	74.75	10.88	88.75	7.72
47.00	27.52	61.00	16.34	75.00	10.81	89.00	7.67
47.25	27.23	61.25	16.20	75.25	10.73	89.25	7.63
47.50	26.94	61.50	16.07	75.50	10.66	89.50	7.59
47.75	26.66	61.75	15.94	75.75	10.59	89.75	7.55
48.00	26.38	62.00	15.81	76.00	10.52	90.00	7.50
48.25	26.11	62.25	15.69	76.25	10.45	90.25	7.46
48.50	25.84	62.50	15.56	76.50	10.39	90.50	7.42
48.75	25.58	62.75	15.44	76.75	10.32	90.75	7.38
49.00	25.32	63.00	15.32	77.00	10.25	91.00	7.34
49.25	25.06	63.25	15.19	77.25	10.19	91.25	7.30
49.50	24.81	63.50	15.07	77.50	10.12	91.50	7.26
49.75	24.56	63.75	14.96	77.75	10.06	91.75	7.22
50.00	24.31	64.00	14.84	78.00	9.99	92.00	7.18
50.25	24.07	64.25	14.73	78.25	9.93	92.25	7.14
50.50	23.83	64.50	14.61	78.50	9.86	92.50	7.10
50.75	23.60	64.75	14.50	78.75	9.80	92.75	7.07
51.00	23.37	65.00	14.39	79.00	9.74	93.00	7.03
51.25	23.14	65.25	14.28	79.25	9.68	93.25	6.99
51.50	22.92	65.50	14.17	79.50	9.62	93.50	6.95
51.75	22.70	65.75	14.06	79.75	9.56	93.75	6.92
52.00	22.48	66.00	13.95	80.00	9.50	94.00	6.88
52.25	22.27	66.25	13.85	80.25	9.44	94.25	6.84
52.50	22.05	66.50	13.75	80.50	9.38	94.50	6.81
52.75	21.85	66.75	13.64	80.75	9.32	94.75	6.77
53.00	21.64	67.00	13.54	81.00	9.26	95.00	6.74
53.25	21.44	67.25	13.44	81.25	9.21	95.25	6.70
53.50	21.24	67.50	13.34	81.50	9.15	95.50	6.66
53.75	21.04	67.75	13.24	81.75	9.10	95.75	6.63
54.00	20.85	68.00	13.15	82.00	9.04	96.00	6.60

Table 16 – 30%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 40% % Reflection 2000%

Distance where limits are exceeded	
FCC ft.	11.35 136.2 Inches
BioInitiative ft.	900.00 10800.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	648390.88	10.25	770.98	20.25	197.62	30.25	88.57
0.50	259356.35	10.50	734.72	20.50	192.83	30.50	87.12
0.75	129678.18	10.75	700.96	20.75	188.21	30.75	85.71
1.00	76281.28	11.00	669.48	21.00	183.76	31.00	84.33
1.25	49876.22	11.25	640.07	21.25	179.46	31.25	82.99
1.50	35048.16	11.50	612.56	21.50	175.31	31.50	81.68
1.75	25935.64	11.75	586.78	21.75	171.31	31.75	80.40
2.00	19950.49	12.00	562.60	22.00	167.43	32.00	79.14
2.25	15814.41	12.25	539.88	22.25	163.69	32.25	77.92
2.50	12839.42	12.50	518.51	22.50	160.08	32.50	76.73
2.75	10629.36	12.75	498.38	22.75	156.58	32.75	75.56
3.00	8943.32	13.00	479.40	23.00	153.19	33.00	74.42
3.25	7628.13	13.25	461.49	23.25	149.92	33.25	73.31
3.50	6582.65	13.50	444.56	23.50	146.74	33.50	72.22
3.75	5737.97	13.75	428.55	23.75	143.67	33.75	71.15
4.00	5045.84	14.00	413.38	24.00	140.69	34.00	70.11
4.25	4471.66	14.25	399.01	24.25	137.81	34.25	69.09
4.50	3990.10	14.50	385.37	24.50	135.01	34.50	68.09
4.75	3582.27	14.75	372.42	24.75	132.30	34.75	67.11
5.00	3233.87	15.00	360.12	25.00	129.67	35.00	66.16
5.25	2933.90	15.25	348.41	25.25	127.11	35.25	65.22
5.50	2673.78	15.50	337.26	25.50	124.63	35.50	64.31
5.75	2446.76	15.75	326.65	25.75	122.22	35.75	63.41
6.00	2247.46	16.00	316.52	26.00	119.88	36.00	62.53
6.25	2071.54	16.25	306.86	26.25	117.61	36.25	61.68
6.50	1915.48	16.50	297.63	26.50	115.40	36.50	60.83
6.75	1776.41	16.75	288.82	26.75	113.26	36.75	60.01
7.00	1651.95	17.00	280.39	27.00	111.17	37.00	59.20
7.25	1540.12	17.25	272.32	27.25	109.14	37.25	58.41
7.50	1439.27	17.50	264.60	27.50	107.16	37.50	57.63
7.75	1348.01	17.75	257.20	27.75	105.24	37.75	56.87
8.00	1265.15	18.00	250.10	28.00	103.37	38.00	56.13
8.25	1189.71	18.25	243.30	28.25	101.55	38.25	55.39
8.50	1120.81	18.50	236.77	28.50	99.78	38.50	54.68
8.75	1057.73	18.75	230.50	28.75	98.05	38.75	53.97
9.00	999.83	19.00	224.47	29.00	96.36	39.00	53.28
9.25	946.56	19.25	218.68	29.25	94.72	39.25	52.61
9.50	897.43	19.50	213.11	29.50	93.13	39.50	51.94
9.75	852.02	19.75	207.75	29.75	91.57	39.75	51.29
10.00	809.98	20.00	202.59	30.00	90.05	40.00	50.65

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections
 $S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$
 S = Power Density uW/cm²
 EIRP = 1.64 * ERP
 pi() = 3.1459
 R = Distance to device
 TA = Time average
 %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 40% % Reflection 2000%

Distance where limits are exceeded
FCC ft. 11.35 136.22 Inches
BioInitiative ft. 900.00 10800.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	50.03	54.25	27.54	68.25	17.40	82.25	11.98
40.50	49.41	54.50	27.29	68.50	17.27	82.50	11.91
40.75	48.81	54.75	27.04	68.75	17.15	82.75	11.84
41.00	48.21	55.00	26.79	69.00	17.02	83.00	11.76
41.25	47.63	55.25	26.55	69.25	16.90	83.25	11.69
41.50	47.06	55.50	26.31	69.50	16.78	83.50	11.62
41.75	46.50	55.75	26.08	69.75	16.66	83.75	11.56
42.00	45.94	56.00	25.84	70.00	16.54	84.00	11.49
42.25	45.40	56.25	25.61	70.25	16.42	84.25	11.42
42.50	44.87	56.50	25.39	70.50	16.31	84.50	11.35
42.75	44.35	56.75	25.17	70.75	16.19	84.75	11.28
43.00	43.83	57.00	24.95	71.00	16.08	85.00	11.22
43.25	43.33	57.25	24.73	71.25	15.97	85.25	11.15
43.50	42.83	57.50	24.51	71.50	15.85	85.50	11.09
43.75	42.34	57.75	24.30	71.75	15.74	85.75	11.02
44.00	41.86	58.00	24.09	72.00	15.63	86.00	10.96
44.25	41.39	58.25	23.89	72.25	15.53	86.25	10.89
44.50	40.93	58.50	23.68	72.50	15.42	86.50	10.83
44.75	40.47	58.75	23.48	72.75	15.31	86.75	10.77
45.00	40.02	59.00	23.28	73.00	15.21	87.00	10.71
45.25	39.58	59.25	23.09	73.25	15.11	87.25	10.65
45.50	39.15	59.50	22.89	73.50	15.00	87.50	10.59
45.75	38.72	59.75	22.70	73.75	14.90	87.75	10.53
46.00	38.30	60.00	22.51	74.00	14.80	88.00	10.47
46.25	37.89	60.25	22.33	74.25	14.70	88.25	10.41
46.50	37.48	60.50	22.14	74.50	14.60	88.50	10.35
46.75	37.08	60.75	21.96	74.75	14.51	88.75	10.29
47.00	36.69	61.00	21.78	75.00	14.41	89.00	10.23
47.25	36.30	61.25	21.60	75.25	14.31	89.25	10.17
47.50	35.92	61.50	21.43	75.50	14.22	89.50	10.12
47.75	35.55	61.75	21.26	75.75	14.12	89.75	10.06
48.00	35.18	62.00	21.08	76.00	14.03	90.00	10.01
48.25	34.81	62.25	20.92	76.25	13.94	90.25	9.95
48.50	34.45	62.50	20.75	76.50	13.85	90.50	9.90
48.75	34.10	62.75	20.58	76.75	13.76	90.75	9.84
49.00	33.76	63.00	20.42	77.00	13.67	91.00	9.79
49.25	33.41	63.25	20.26	77.25	13.58	91.25	9.73
49.50	33.08	63.50	20.10	77.50	13.49	91.50	9.68
49.75	32.75	63.75	19.94	77.75	13.41	91.75	9.63
50.00	32.42	64.00	19.79	78.00	13.32	92.00	9.58
50.25	32.10	64.25	19.63	78.25	13.24	92.25	9.52
50.50	31.78	64.50	19.48	78.50	13.15	92.50	9.47
50.75	31.47	64.75	19.33	78.75	13.07	92.75	9.42
51.00	31.16	65.00	19.18	79.00	12.99	93.00	9.37
51.25	30.86	65.25	19.04	79.25	12.90	93.25	9.32
51.50	30.56	65.50	18.89	79.50	12.82	93.50	9.27
51.75	30.26	65.75	18.75	79.75	12.74	93.75	9.22
52.00	29.97	66.00	18.61	80.00	12.66	94.00	9.17
52.25	29.69	66.25	18.47	80.25	12.58	94.25	9.12
52.50	29.40	66.50	18.33	80.50	12.51	94.50	9.08
52.75	29.13	66.75	18.19	80.75	12.43	94.75	9.03
53.00	28.85	67.00	18.05	81.00	12.35	95.00	8.98
53.25	28.58	67.25	17.92	81.25	12.28	95.25	8.93
53.50	28.32	67.50	17.79	81.50	12.20	95.50	8.89
53.75	28.05	67.75	17.66	81.75	12.13	95.75	8.84
54.00	27.79	68.00	17.53	82.00	12.05	96.00	8.79

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 50% % Reflection 2000%

Distance where limits are exceeded			
FCC ft.	12.69	152.3 Inches	
BioInitiative ft.	1005.00	12060.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	810488.60	10.25	963.72	20.25	247.02	30.25	110.71
0.50	324195.44	10.50	918.40	20.50	241.04	30.50	108.90
0.75	162097.72	10.75	876.20	20.75	235.27	30.75	107.14
1.00	95351.60	11.00	836.85	21.00	229.70	31.00	105.42
1.25	62345.28	11.25	800.09	21.25	224.33	31.25	103.74
1.50	43810.19	11.50	765.70	21.50	219.14	31.50	102.10
1.75	32419.54	11.75	733.47	21.75	214.13	31.75	100.49
2.00	24938.11	12.00	703.24	22.00	209.29	32.00	98.93
2.25	19768.01	12.25	674.84	22.25	204.62	32.25	97.40
2.50	16049.28	12.50	648.13	22.50	200.10	32.50	95.91
2.75	13286.70	12.75	622.97	22.75	195.72	32.75	94.45
3.00	11179.15	13.00	599.25	23.00	191.49	33.00	93.03
3.25	9535.16	13.25	576.86	23.25	187.40	33.25	91.63
3.50	8228.31	13.50	555.70	23.50	183.43	33.50	90.27
3.75	7172.47	13.75	535.68	23.75	179.59	33.75	88.94
4.00	6307.30	14.00	516.73	24.00	175.87	34.00	87.63
4.25	5589.58	14.25	498.76	24.25	172.26	34.25	86.36
4.50	4987.62	14.50	481.72	24.50	168.76	34.50	85.11
4.75	4477.84	14.75	465.53	24.75	165.37	34.75	83.89
5.00	4042.34	15.00	450.15	25.00	162.08	35.00	82.70
5.25	3667.37	15.25	435.51	25.25	158.89	35.25	81.53
5.50	3342.22	15.50	421.58	25.50	155.79	35.50	80.39
5.75	3058.45	15.75	408.31	25.75	152.78	35.75	79.27
6.00	2809.32	16.00	395.65	26.00	149.85	36.00	78.17
6.25	2589.42	16.25	383.57	26.25	147.01	36.25	77.09
6.50	2394.35	16.50	372.04	26.50	144.25	36.50	76.04
6.75	2220.52	16.75	361.02	26.75	141.57	36.75	75.01
7.00	2064.94	17.00	350.48	27.00	138.96	37.00	74.00
7.25	1925.15	17.25	340.40	27.25	136.42	37.25	73.01
7.50	1799.09	17.50	330.74	27.50	133.95	37.50	72.04
7.75	1685.01	17.75	321.49	27.75	131.55	37.75	71.09
8.00	1581.44	18.00	312.63	28.00	129.21	38.00	70.16
8.25	1487.14	18.25	304.12	28.25	126.94	38.25	69.24
8.50	1401.02	18.50	295.96	28.50	124.72	38.50	68.35
8.75	1322.17	18.75	288.12	28.75	122.56	38.75	67.47
9.00	1249.79	19.00	280.59	29.00	120.46	39.00	66.61
9.25	1183.20	19.25	273.35	29.25	118.41	39.25	65.76
9.50	1121.78	19.50	266.39	29.50	116.41	39.50	64.93
9.75	1065.03	19.75	259.69	29.75	114.46	39.75	64.12
10.00	1012.48	20.00	253.24	30.00	112.56	40.00	63.32

Notes:

- 1) Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 2) 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 3) 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- 4) Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- 5) TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- 6) Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 50% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 12.69 152.31 Inches
 BioInitiative ft. 1005.00 12060.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	62.53	54.25	34.42	68.25	21.75	82.25	14.98
40.50	61.76	54.50	34.11	68.50	21.59	82.50	14.88
40.75	61.01	54.75	33.80	68.75	21.43	82.75	14.80
41.00	60.27	55.00	33.49	69.00	21.28	83.00	14.71
41.25	59.54	55.25	33.19	69.25	21.13	83.25	14.62
41.50	58.82	55.50	32.89	69.50	20.97	83.50	14.53
41.75	58.12	55.75	32.60	69.75	20.82	83.75	14.44
42.00	57.43	56.00	32.31	70.00	20.68	84.00	14.36
42.25	56.75	56.25	32.02	70.25	20.53	84.25	14.27
42.50	56.09	56.50	31.74	70.50	20.38	84.50	14.19
42.75	55.43	56.75	31.46	70.75	20.24	84.75	14.11
43.00	54.79	57.00	31.18	71.00	20.10	85.00	14.02
43.25	54.16	57.25	30.91	71.25	19.96	85.25	13.94
43.50	53.54	57.50	30.64	71.50	19.82	85.50	13.86
43.75	52.93	57.75	30.38	71.75	19.68	85.75	13.78
44.00	52.33	58.00	30.12	72.00	19.54	86.00	13.70
44.25	51.74	58.25	29.86	72.25	19.41	86.25	13.62
44.50	51.16	58.50	29.60	72.50	19.27	86.50	13.54
44.75	50.59	58.75	29.35	72.75	19.14	86.75	13.46
45.00	50.03	59.00	29.10	73.00	19.01	87.00	13.38
45.25	49.48	59.25	28.86	73.25	18.88	87.25	13.31
45.50	48.94	59.50	28.62	73.50	18.75	87.50	13.23
45.75	48.40	59.75	28.38	73.75	18.63	87.75	13.16
46.00	47.88	60.00	28.14	74.00	18.50	88.00	13.08
46.25	47.36	60.25	27.91	74.25	18.38	88.25	13.01
46.50	46.85	60.50	27.68	74.50	18.25	88.50	12.94
46.75	46.35	60.75	27.45	74.75	18.13	88.75	12.86
47.00	45.86	61.00	27.23	75.00	18.01	89.00	12.79
47.25	45.38	61.25	27.00	75.25	17.89	89.25	12.72
47.50	44.90	61.50	26.79	75.50	17.77	89.50	12.65
47.75	44.43	61.75	26.57	75.75	17.66	89.75	12.58
48.00	43.97	62.00	26.36	76.00	17.54	90.00	12.51
48.25	43.52	62.25	26.14	76.25	17.42	90.25	12.44
48.50	43.07	62.50	25.94	76.50	17.31	90.50	12.37
48.75	42.63	62.75	25.73	76.75	17.20	90.75	12.30
49.00	42.19	63.00	25.53	77.00	17.09	91.00	12.23
49.25	41.77	63.25	25.32	77.25	16.98	91.25	12.17
49.50	41.35	63.50	25.12	77.50	16.87	91.50	12.10
49.75	40.93	63.75	24.93	77.75	16.76	91.75	12.03
50.00	40.52	64.00	24.73	78.00	16.65	92.00	11.97
50.25	40.12	64.25	24.54	78.25	16.55	92.25	11.90
50.50	39.72	64.50	24.35	78.50	16.44	92.50	11.84
50.75	39.33	64.75	24.16	78.75	16.34	92.75	11.78
51.00	38.95	65.00	23.98	79.00	16.23	93.00	11.71
51.25	38.57	65.25	23.80	79.25	16.13	93.25	11.65
51.50	38.20	65.50	23.61	79.50	16.03	93.50	11.59
51.75	37.83	65.75	23.43	79.75	15.93	93.75	11.53
52.00	37.47	66.00	23.26	80.00	15.83	94.00	11.47
52.25	37.11	66.25	23.08	80.25	15.73	94.25	11.40
52.50	36.76	66.50	22.91	80.50	15.63	94.50	11.34
52.75	36.41	66.75	22.74	80.75	15.54	94.75	11.28
53.00	36.07	67.00	22.57	81.00	15.44	95.00	11.23
53.25	35.73	67.25	22.40	81.25	15.35	95.25	11.17
53.50	35.39	67.50	22.24	81.50	15.25	95.50	11.11
53.75	35.07	67.75	22.07	81.75	15.16	95.75	11.05
54.00	34.74	68.00	21.91	82.00	15.07	96.00	10.99

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 60% % Reflection 2000%

Distance where limits are exceeded		
FCC ft.	13.90	166.8 Inches
BioInitiative ft.	1100.00	13200.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	972586.32	10.25	1156.46	20.25	296.43	30.25	132.85
0.50	389034.53	10.50	1102.08	20.50	289.25	30.50	130.68
0.75	194517.26	10.75	1051.44	20.75	282.32	30.75	128.56
1.00	114421.92	11.00	1004.22	21.00	275.64	31.00	126.50
1.25	74814.33	11.25	960.10	21.25	269.19	31.25	124.48
1.50	52572.23	11.50	918.83	21.50	262.97	31.50	122.52
1.75	38903.45	11.75	880.17	21.75	256.96	31.75	120.59
2.00	29925.73	12.00	843.89	22.00	251.15	32.00	118.72
2.25	23721.62	12.25	809.81	22.25	245.54	32.25	116.88
2.50	19259.14	12.50	777.76	22.50	240.12	32.50	115.09
2.75	15944.04	12.75	747.57	22.75	234.87	32.75	113.34
3.00	13414.98	13.00	719.10	23.00	229.79	33.00	111.63
3.25	11442.19	13.25	692.23	23.25	224.88	33.25	109.96
3.50	9873.97	13.50	666.84	23.50	220.12	33.50	108.32
3.75	8606.96	13.75	642.82	23.75	215.51	33.75	106.73
4.00	7568.77	14.00	620.07	24.00	211.04	34.00	105.16
4.25	6707.49	14.25	598.51	24.25	206.71	34.25	103.63
4.50	5985.15	14.50	578.06	24.50	202.52	34.50	102.14
4.75	5373.41	14.75	558.64	24.75	198.45	34.75	100.67
5.00	4850.80	15.00	540.18	25.00	194.50	35.00	99.24
5.25	4400.84	15.25	522.61	25.25	190.67	35.25	97.84
5.50	4010.67	15.50	505.90	25.50	186.95	35.50	96.46
5.75	3670.14	15.75	489.97	25.75	183.33	35.75	95.12
6.00	3371.18	16.00	474.78	26.00	179.83	36.00	93.80
6.25	3107.30	16.25	460.29	26.25	176.42	36.25	92.51
6.50	2873.22	16.50	446.45	26.50	173.10	36.50	91.25
6.75	2664.62	16.75	433.22	26.75	169.88	36.75	90.01
7.00	2477.93	17.00	420.58	27.00	166.75	37.00	88.80
7.25	2310.18	17.25	408.48	27.25	163.71	37.25	87.61
7.50	2158.90	17.50	396.89	27.50	160.74	37.50	86.45
7.75	2022.01	17.75	385.79	27.75	157.86	37.75	85.31
8.00	1897.73	18.00	375.15	28.00	155.06	38.00	84.19
8.25	1784.56	18.25	364.95	28.25	152.32	38.25	83.09
8.50	1681.22	18.50	355.15	28.50	149.66	38.50	82.02
8.75	1586.60	18.75	345.75	28.75	147.07	38.75	80.96
9.00	1499.75	19.00	336.71	29.00	144.55	39.00	79.93
9.25	1419.83	19.25	328.02	29.25	142.09	39.25	78.91
9.50	1346.14	19.50	319.67	29.50	139.69	39.50	77.92
9.75	1278.04	19.75	311.63	29.75	137.35	39.75	76.94
10.00	1214.97	20.00	303.89	30.00	135.07	40.00	75.98

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 60% % Reflection 2000%

Distance where limits are exceeded
FCC ft. 13.90 166.85 Inches
BioInitiative ft. 1100.00 13200.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	75.04	54.25	41.31	68.25	26.10	82.25	17.97
40.50	74.12	54.50	40.93	68.50	25.91	82.50	17.86
40.75	73.21	54.75	40.56	68.75	25.72	82.75	17.75
41.00	72.32	55.00	40.19	69.00	25.53	83.00	17.65
41.25	71.45	55.25	39.83	69.25	25.35	83.25	17.54
41.50	70.59	55.50	39.47	69.50	25.17	83.50	17.44
41.75	69.74	55.75	39.11	69.75	24.99	83.75	17.33
42.00	68.92	56.00	38.77	70.00	24.81	84.00	17.23
42.25	68.10	56.25	38.42	70.25	24.63	84.25	17.13
42.50	67.30	56.50	38.08	70.50	24.46	84.50	17.03
42.75	66.52	56.75	37.75	70.75	24.29	84.75	16.93
43.00	65.75	57.00	37.42	71.00	24.12	85.00	16.83
43.25	64.99	57.25	37.09	71.25	23.95	85.25	16.73
43.50	64.25	57.50	36.77	71.50	23.78	85.50	16.63
43.75	63.51	57.75	36.45	71.75	23.62	85.75	16.53
44.00	62.79	58.00	36.14	72.00	23.45	86.00	16.44
44.25	62.09	58.25	35.83	72.25	23.29	86.25	16.34
44.50	61.39	58.50	35.52	72.50	23.13	86.50	16.25
44.75	60.71	58.75	35.22	72.75	22.97	86.75	16.15
45.00	60.03	59.00	34.92	73.00	22.81	87.00	16.06
45.25	59.37	59.25	34.63	73.25	22.66	87.25	15.97
45.50	58.72	59.50	34.34	73.50	22.50	87.50	15.88
45.75	58.08	59.75	34.05	73.75	22.35	87.75	15.79
46.00	57.45	60.00	33.77	74.00	22.20	88.00	15.70
46.25	56.83	60.25	33.49	74.25	22.05	88.25	15.61
46.50	56.22	60.50	33.21	74.50	21.90	88.50	15.52
46.75	55.62	60.75	32.94	74.75	21.76	88.75	15.43
47.00	55.03	61.00	32.67	75.00	21.61	89.00	15.35
47.25	54.45	61.25	32.41	75.25	21.47	89.25	15.26
47.50	53.88	61.50	32.14	75.50	21.33	89.50	15.18
47.75	53.32	61.75	31.88	75.75	21.19	89.75	15.09
48.00	52.76	62.00	31.63	76.00	21.05	90.00	15.01
48.25	52.22	62.25	31.37	76.25	20.91	90.25	14.93
48.50	51.68	62.50	31.12	76.50	20.77	90.50	14.84
48.75	51.15	62.75	30.87	76.75	20.64	90.75	14.76
49.00	50.63	63.00	30.63	77.00	20.50	91.00	14.68
49.25	50.12	63.25	30.39	77.25	20.37	91.25	14.60
49.50	49.62	63.50	30.15	77.50	20.24	91.50	14.52
49.75	49.12	63.75	29.91	77.75	20.11	91.75	14.44
50.00	48.63	64.00	29.68	78.00	19.98	92.00	14.36
50.25	48.15	64.25	29.45	78.25	19.85	92.25	14.29
50.50	47.67	64.50	29.22	78.50	19.73	92.50	14.21
50.75	47.20	64.75	29.00	78.75	19.60	92.75	14.13
51.00	46.74	65.00	28.77	79.00	19.48	93.00	14.06
51.25	46.28	65.25	28.55	79.25	19.36	93.25	13.98
51.50	45.84	65.50	28.34	79.50	19.24	93.50	13.91
51.75	45.39	65.75	28.12	79.75	19.11	93.75	13.83
52.00	44.96	66.00	27.91	80.00	19.00	94.00	13.76
52.25	44.53	66.25	27.70	80.25	18.88	94.25	13.69
52.50	44.11	66.50	27.49	80.50	18.76	94.50	13.61
52.75	43.69	66.75	27.29	80.75	18.64	94.75	13.54
53.00	43.28	67.00	27.08	81.00	18.53	95.00	13.47
53.25	42.87	67.25	26.88	81.25	18.42	95.25	13.40
53.50	42.47	67.50	26.68	81.50	18.30	95.50	13.33
53.75	42.08	67.75	26.49	81.75	18.19	95.75	13.26
54.00	41.69	68.00	26.29	82.00	18.08	96.00	13.19

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 70% % Reflection 2000%

Distance where limits are exceeded			
FCC ft.	15.02	180.2 Inches	
BioInitiative ft.	1190.00	14280.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1134684.04	10.25	1349.21	20.25	345.83	30.25	154.99
0.50	453873.62	10.50	1285.76	20.50	337.45	30.50	152.46
0.75	226936.81	10.75	1226.69	20.75	329.37	30.75	149.99
1.00	133492.24	11.00	1171.59	21.00	321.58	31.00	147.58
1.25	87283.39	11.25	1120.12	21.25	314.06	31.25	145.23
1.50	61334.27	11.50	1071.97	21.50	306.80	31.50	142.93
1.75	45387.36	11.75	1026.86	21.75	299.78	31.75	140.69
2.00	34913.36	12.00	984.54	22.00	293.01	32.00	138.50
2.25	27675.22	12.25	944.78	22.25	286.46	32.25	136.36
2.50	22468.99	12.50	907.38	22.50	280.13	32.50	134.27
2.75	18601.38	12.75	872.16	22.75	274.01	32.75	132.23
3.00	15650.81	13.00	838.95	23.00	268.09	33.00	130.24
3.25	13349.22	13.25	807.60	23.25	262.35	33.25	128.29
3.50	11519.63	13.50	777.98	23.50	256.80	33.50	126.38
3.75	10041.45	13.75	749.96	23.75	251.43	33.75	124.51
4.00	8830.23	14.00	723.42	24.00	246.22	34.00	122.69
4.25	7825.41	14.25	698.27	24.25	241.17	34.25	120.90
4.50	6982.67	14.50	674.40	24.50	236.27	34.50	119.16
4.75	6268.97	14.75	651.74	24.75	231.52	34.75	117.45
5.00	5659.27	15.00	630.20	25.00	226.91	35.00	115.78
5.25	5134.32	15.25	609.72	25.25	222.44	35.25	114.14
5.50	4679.11	15.50	590.21	25.50	218.10	35.50	112.54
5.75	4281.83	15.75	571.63	25.75	213.89	35.75	110.97
6.00	3933.05	16.00	553.91	26.00	209.80	36.00	109.44
6.25	3625.19	16.25	537.00	26.25	205.82	36.25	107.93
6.50	3352.09	16.50	520.86	26.50	201.95	36.50	106.46
6.75	3108.72	16.75	505.43	26.75	198.20	36.75	105.01
7.00	2890.91	17.00	490.67	27.00	194.55	37.00	103.60
7.25	2695.21	17.25	476.56	27.25	190.99	37.25	102.21
7.50	2518.72	17.50	463.04	27.50	187.54	37.50	100.86
7.75	2359.01	17.75	450.09	27.75	184.17	37.75	99.52
8.00	2214.02	18.00	437.68	28.00	180.90	38.00	98.22
8.25	2081.99	18.25	425.77	28.25	177.71	38.25	96.94
8.50	1961.42	18.50	414.35	28.50	174.61	38.50	95.69
8.75	1851.03	18.75	403.37	28.75	171.58	38.75	94.45
9.00	1749.71	19.00	392.83	29.00	168.64	39.00	93.25
9.25	1656.47	19.25	382.69	29.25	165.77	39.25	92.06
9.50	1570.50	19.50	372.94	29.50	162.97	39.50	90.90
9.75	1491.04	19.75	363.56	29.75	160.24	39.75	89.76
10.00	1417.47	20.00	354.53	30.00	157.58	40.00	88.64

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 70% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 15.02 180.22 Inches
 BioInitiative ft. 1190.00 14280.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	87.55	54.25	48.19	68.25	30.45	82.25	20.97
40.50	86.47	54.50	47.75	68.50	30.23	82.50	20.84
40.75	85.41	54.75	47.32	68.75	30.01	82.75	20.71
41.00	84.37	55.00	46.89	69.00	29.79	83.00	20.59
41.25	83.35	55.25	46.46	69.25	29.58	83.25	20.47
41.50	82.35	55.50	46.05	69.50	29.36	83.50	20.34
41.75	81.37	55.75	45.63	69.75	29.15	83.75	20.22
42.00	80.40	56.00	45.23	70.00	28.95	84.00	20.10
42.25	79.45	56.25	44.83	70.25	28.74	84.25	19.98
42.50	78.52	56.50	44.43	70.50	28.54	84.50	19.86
42.75	77.61	56.75	44.04	70.75	28.34	84.75	19.75
43.00	76.71	57.00	43.65	71.00	28.14	85.00	19.63
43.25	75.82	57.25	43.27	71.25	27.94	85.25	19.52
43.50	74.95	57.50	42.90	71.50	27.74	85.50	19.40
43.75	74.10	57.75	42.53	71.75	27.55	85.75	19.29
44.00	73.26	58.00	42.16	72.00	27.36	86.00	19.18
44.25	72.43	58.25	41.80	72.25	27.17	86.25	19.07
44.50	71.62	58.50	41.44	72.50	26.98	86.50	18.96
44.75	70.82	58.75	41.09	72.75	26.80	86.75	18.85
45.00	70.04	59.00	40.74	73.00	26.62	87.00	18.74
45.25	69.27	59.25	40.40	73.25	26.43	87.25	18.63
45.50	68.51	59.50	40.06	73.50	26.25	87.50	18.53
45.75	67.76	59.75	39.73	73.75	26.08	87.75	18.42
46.00	67.03	60.00	39.40	74.00	25.90	88.00	18.32
46.25	66.31	60.25	39.07	74.25	25.73	88.25	18.21
46.50	65.59	60.50	38.75	74.50	25.55	88.50	18.11
46.75	64.89	60.75	38.43	74.75	25.38	88.75	18.01
47.00	64.21	61.00	38.12	75.00	25.21	89.00	17.91
47.25	63.53	61.25	37.81	75.25	25.05	89.25	17.81
47.50	62.86	61.50	37.50	75.50	24.88	89.50	17.71
47.75	62.21	61.75	37.20	75.75	24.72	89.75	17.61
48.00	61.56	62.00	36.90	76.00	24.56	90.00	17.51
48.25	60.92	62.25	36.60	76.25	24.39	90.25	17.41
48.50	60.30	62.50	36.31	76.50	24.24	90.50	17.32
48.75	59.68	62.75	36.02	76.75	24.08	90.75	17.22
49.00	59.07	63.00	35.74	77.00	23.92	91.00	17.13
49.25	58.47	63.25	35.45	77.25	23.77	91.25	17.03
49.50	57.88	63.50	35.17	77.50	23.61	91.50	16.94
49.75	57.30	63.75	34.90	77.75	23.46	91.75	16.85
50.00	56.73	64.00	34.63	78.00	23.31	92.00	16.76
50.25	56.17	64.25	34.36	78.25	23.16	92.25	16.67
50.50	55.61	64.50	34.09	78.50	23.02	92.50	16.58
50.75	55.07	64.75	33.83	78.75	22.87	92.75	16.49
51.00	54.53	65.00	33.57	79.00	22.73	93.00	16.40
51.25	54.00	65.25	33.31	79.25	22.58	93.25	16.31
51.50	53.48	65.50	33.06	79.50	22.44	93.50	16.22
51.75	52.96	65.75	32.81	79.75	22.30	93.75	16.14
52.00	52.45	66.00	32.56	80.00	22.16	94.00	16.05
52.25	51.95	66.25	32.32	80.25	22.02	94.25	15.97
52.50	51.46	66.50	32.07	80.50	21.89	94.50	15.88
52.75	50.97	66.75	31.83	80.75	21.75	94.75	15.80
53.00	50.49	67.00	31.60	81.00	21.62	95.00	15.72
53.25	50.02	67.25	31.36	81.25	21.48	95.25	15.63
53.50	49.55	67.50	31.13	81.50	21.35	95.50	15.55
53.75	49.09	67.75	30.90	81.75	21.22	95.75	15.47
54.00	48.64	68.00	30.67	82.00	21.09	96.00	15.39

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 80% % Reflection 2000%

Distance where limits are exceeded	
FCC ft.	192.7 Inches
BioInitiative ft.	15300.0 Inches
16.06	
1275.00	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1296781.76	10.25	1541.95	20.25	395.24	30.25	177.13
0.50	518712.70	10.50	1469.44	20.50	385.66	30.50	174.24
0.75	259356.35	10.75	1401.93	20.75	376.42	30.75	171.42
1.00	152562.56	11.00	1338.96	21.00	367.52	31.00	168.67
1.25	99752.44	11.25	1280.14	21.25	358.92	31.25	165.98
1.50	70096.31	11.50	1225.11	21.50	350.62	31.50	163.35
1.75	51871.27	11.75	1173.56	21.75	342.61	31.75	160.79
2.00	39900.98	12.00	1125.19	22.00	334.87	32.00	158.29
2.25	31628.82	12.25	1079.75	22.25	327.39	32.25	155.84
2.50	25678.85	12.50	1037.01	22.50	320.15	32.50	153.46
2.75	21258.72	12.75	996.76	22.75	313.16	32.75	151.12
3.00	17886.64	13.00	958.80	23.00	306.39	33.00	148.84
3.25	15256.26	13.25	922.98	23.25	299.83	33.25	146.61
3.50	13165.30	13.50	889.12	23.50	293.49	33.50	144.43
3.75	11475.94	13.75	857.09	23.75	287.34	33.75	142.30
4.00	10091.69	14.00	826.77	24.00	281.39	34.00	140.22
4.25	8943.32	14.25	798.02	24.25	275.62	34.25	138.18
4.50	7980.20	14.50	770.75	24.50	270.02	34.50	136.18
4.75	7164.54	14.75	744.85	24.75	264.60	34.75	134.23
5.00	6467.74	15.00	720.23	25.00	259.33	35.00	132.32
5.25	5867.79	15.25	696.82	25.25	254.22	35.25	130.45
5.50	5347.55	15.50	674.53	25.50	249.26	35.50	128.62
5.75	4893.52	15.75	653.29	25.75	244.45	35.75	126.82
6.00	4494.91	16.00	633.04	26.00	239.77	36.00	125.07
6.25	4143.07	16.25	613.72	26.25	235.22	36.25	123.35
6.50	3830.97	16.50	595.26	26.50	230.81	36.50	121.67
6.75	3552.83	16.75	577.63	26.75	226.51	36.75	120.02
7.00	3303.90	17.00	560.77	27.00	222.34	37.00	118.40
7.25	3080.24	17.25	544.64	27.25	218.28	37.25	116.82
7.50	2878.54	17.50	529.19	27.50	214.33	37.50	115.26
7.75	2696.01	17.75	514.39	27.75	210.48	37.75	113.74
8.00	2530.31	18.00	500.21	28.00	206.74	38.00	112.25
8.25	2379.42	18.25	486.60	28.25	203.10	38.25	110.79
8.50	2241.63	18.50	473.54	28.50	199.55	38.50	109.35
8.75	2115.47	18.75	461.00	28.75	196.10	38.75	107.95
9.00	1999.66	19.00	448.95	29.00	192.73	39.00	106.57
9.25	1893.11	19.25	437.36	29.25	189.45	39.25	105.22
9.50	1794.85	19.50	426.22	29.50	186.25	39.50	103.89
9.75	1704.05	19.75	415.50	29.75	183.14	39.75	102.59
10.00	1619.96	20.00	405.18	30.00	180.10	40.00	101.31

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 80% % Reflection 2000%

Distance where limits are exceeded
FCC ft. 16.06 192.67 Inches
BioInitiative ft. 1275.00 15300.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	100.05	54.25	55.08	68.25	34.80	82.25	23.96
40.50	98.82	54.50	54.57	68.50	34.55	82.50	23.82
40.75	97.61	54.75	54.08	68.75	34.29	82.75	23.67
41.00	96.43	55.00	53.58	69.00	34.05	83.00	23.53
41.25	95.26	55.25	53.10	69.25	33.80	83.25	23.39
41.50	94.12	55.50	52.62	69.50	33.56	83.50	23.25
41.75	92.99	55.75	52.15	69.75	33.32	83.75	23.11
42.00	91.89	56.00	51.69	70.00	33.08	84.00	22.97
42.25	90.80	56.25	51.23	70.25	32.85	84.25	22.84
42.50	89.74	56.50	50.78	70.50	32.61	84.50	22.70
42.75	88.69	56.75	50.33	70.75	32.38	84.75	22.57
43.00	87.66	57.00	49.89	71.00	32.16	85.00	22.44
43.25	86.65	57.25	49.46	71.25	31.93	85.25	22.30
43.50	85.66	57.50	49.03	71.50	31.71	85.50	22.17
43.75	84.69	57.75	48.60	71.75	31.49	85.75	22.04
44.00	83.73	58.00	48.19	72.00	31.27	86.00	21.92
44.25	82.78	58.25	47.77	72.25	31.05	86.25	21.79
44.50	81.85	58.50	47.36	72.50	30.84	86.50	21.66
44.75	80.94	58.75	46.96	72.75	30.63	86.75	21.54
45.00	80.05	59.00	46.57	73.00	30.42	87.00	21.42
45.25	79.16	59.25	46.17	73.25	30.21	87.25	21.29
45.50	78.30	59.50	45.79	73.50	30.01	87.50	21.17
45.75	77.44	59.75	45.40	73.75	29.80	87.75	21.05
46.00	76.60	60.00	45.03	74.00	29.60	88.00	20.93
46.25	75.78	60.25	44.65	74.25	29.40	88.25	20.81
46.50	74.96	60.50	44.29	74.50	29.21	88.50	20.70
46.75	74.17	60.75	43.92	74.75	29.01	88.75	20.58
47.00	73.38	61.00	43.56	75.00	28.82	89.00	20.46
47.25	72.60	61.25	43.21	75.25	28.63	89.25	20.35
47.50	71.84	61.50	42.86	75.50	28.44	89.50	20.24
47.75	71.09	61.75	42.51	75.75	28.25	89.75	20.12
48.00	70.35	62.00	42.17	76.00	28.06	90.00	20.01
48.25	69.63	62.25	41.83	76.25	27.88	90.25	19.90
48.50	68.91	62.50	41.50	76.50	27.70	90.50	19.79
48.75	68.21	62.75	41.17	76.75	27.52	90.75	19.68
49.00	67.51	63.00	40.84	77.00	27.34	91.00	19.57
49.25	66.83	63.25	40.52	77.25	27.16	91.25	19.47
49.50	66.15	63.50	40.20	77.50	26.99	91.50	19.36
49.75	65.49	63.75	39.89	77.75	26.81	91.75	19.26
50.00	64.84	64.00	39.57	78.00	26.64	92.00	19.15
50.25	64.19	64.25	39.27	78.25	26.47	92.25	19.05
50.50	63.56	64.50	38.96	78.50	26.30	92.50	18.94
50.75	62.94	64.75	38.66	78.75	26.14	92.75	18.84
51.00	62.32	65.00	38.37	79.00	25.97	93.00	18.74
51.25	61.71	65.25	38.07	79.25	25.81	93.25	18.64
51.50	61.12	65.50	37.78	79.50	25.65	93.50	18.54
51.75	60.53	65.75	37.50	79.75	25.49	93.75	18.44
52.00	59.95	66.00	37.21	80.00	25.33	94.00	18.35
52.25	59.37	66.25	36.93	80.25	25.17	94.25	18.25
52.50	58.81	66.50	36.65	80.50	25.01	94.50	18.15
52.75	58.25	66.75	36.38	80.75	24.86	94.75	18.06
53.00	57.71	67.00	36.11	81.00	24.71	95.00	17.96
53.25	57.16	67.25	35.84	81.25	24.55	95.25	17.87
53.50	56.63	67.50	35.58	81.50	24.40	95.50	17.77
53.75	56.11	67.75	35.31	81.75	24.25	95.75	17.68
54.00	55.59	68.00	35.06	82.00	24.11	96.00	17.59

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 90% % Reflection 2000%

Distance where limits are exceeded	
FCC ft.	17.03
204.4 Inches	
BioInitiative ft.	1350.00
16200.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1458879.48	10.25	1734.70	20.25	444.64	30.25	199.27
0.50	583551.79	10.50	1653.12	20.50	433.87	30.50	196.02
0.75	291775.90	10.75	1577.17	20.75	423.48	30.75	192.85
1.00	171632.88	11.00	1506.33	21.00	413.46	31.00	189.75
1.25	112221.50	11.25	1440.16	21.25	403.79	31.25	186.72
1.50	78858.35	11.50	1378.25	21.50	394.45	31.50	183.77
1.75	58355.18	11.75	1320.25	21.75	385.44	31.75	180.89
2.00	44888.60	12.00	1265.84	22.00	376.73	32.00	178.08
2.25	35582.43	12.25	1214.72	22.25	368.31	32.25	175.33
2.50	28888.70	12.50	1166.64	22.50	360.17	32.50	172.64
2.75	23916.06	12.75	1121.35	22.75	352.30	32.75	170.01
3.00	20122.48	13.00	1078.65	23.00	344.69	33.00	167.45
3.25	17163.29	13.25	1038.35	23.25	337.31	33.25	164.94
3.50	14810.96	13.50	1000.26	23.50	330.18	33.50	162.49
3.75	12910.44	13.75	964.23	23.75	323.26	33.75	160.09
4.00	11353.15	14.00	930.11	24.00	316.56	34.00	157.74
4.25	10061.24	14.25	897.77	24.25	310.07	34.25	155.45
4.50	8977.72	14.50	867.09	24.50	303.78	34.50	153.20
4.75	8060.11	14.75	837.95	24.75	297.67	34.75	151.01
5.00	7276.21	15.00	810.26	25.00	291.75	35.00	148.86
5.25	6601.26	15.25	783.92	25.25	286.00	35.25	146.75
5.50	6016.00	15.50	758.84	25.50	280.42	35.50	144.69
5.75	5505.21	15.75	734.95	25.75	275.00	35.75	142.68
6.00	5056.77	16.00	712.17	26.00	269.74	36.00	140.70
6.25	4660.96	16.25	690.43	26.25	264.63	36.25	138.77
6.50	4309.84	16.50	669.67	26.50	259.66	36.50	136.87
6.75	3996.93	16.75	649.83	26.75	254.83	36.75	135.02
7.00	3716.89	17.00	630.87	27.00	250.13	37.00	133.20
7.25	3465.27	17.25	612.72	27.25	245.56	37.25	131.42
7.50	3238.36	17.50	595.34	27.50	241.12	37.50	129.67
7.75	3033.01	17.75	578.69	27.75	236.79	37.75	127.96
8.00	2846.59	18.00	562.73	28.00	232.58	38.00	126.28
8.25	2676.84	18.25	547.42	28.25	228.49	38.25	124.64
8.50	2521.83	18.50	532.73	28.50	224.49	38.50	123.02
8.75	2379.90	18.75	518.62	28.75	220.61	38.75	121.44
9.00	2249.62	19.00	505.06	29.00	216.82	39.00	119.89
9.25	2129.75	19.25	492.03	29.25	213.13	39.25	118.37
9.50	2019.21	19.50	479.50	29.50	209.53	39.50	116.87
9.75	1917.06	19.75	467.44	29.75	206.03	39.75	115.41
10.00	1822.46	20.00	455.83	30.00	202.61	40.00	113.97

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 90% % Reflection 2000%

Distance where limits are exceeded
 FCC ft. 17.03 204.36 Inches
 BioInitiative ft. 1350.00 16200.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	112.56	54.25	61.96	68.25	39.15	82.25	26.96
40.50	111.17	54.50	61.39	68.50	38.86	82.50	26.79
40.75	109.81	54.75	60.83	68.75	38.58	82.75	26.63
41.00	108.48	55.00	60.28	69.00	38.30	83.00	26.47
41.25	107.17	55.25	59.74	69.25	38.03	83.25	26.31
41.50	105.88	55.50	59.20	69.50	37.75	83.50	26.15
41.75	104.62	55.75	58.67	69.75	37.48	83.75	26.00
42.00	103.37	56.00	58.15	70.00	37.22	84.00	25.84
42.25	102.16	56.25	57.63	70.25	36.95	84.25	25.69
42.50	100.96	56.50	57.12	70.50	36.69	84.50	25.54
42.75	99.78	56.75	56.62	70.75	36.43	84.75	25.39
43.00	98.62	57.00	56.13	71.00	36.17	85.00	25.24
43.25	97.49	57.25	55.64	71.25	35.92	85.25	25.09
43.50	96.37	57.50	55.16	71.50	35.67	85.50	24.95
43.75	95.27	57.75	54.68	71.75	35.42	85.75	24.80
44.00	94.19	58.00	54.21	72.00	35.18	86.00	24.66
44.25	93.13	58.25	53.74	72.25	34.93	86.25	24.51
44.50	92.09	58.50	53.29	72.50	34.69	86.50	24.37
44.75	91.06	58.75	52.83	72.75	34.46	86.75	24.23
45.00	90.05	59.00	52.39	73.00	34.22	87.00	24.09
45.25	89.06	59.25	51.95	73.25	33.99	87.25	23.95
45.50	88.08	59.50	51.51	73.50	33.76	87.50	23.82
45.75	87.12	59.75	51.08	73.75	33.53	87.75	23.68
46.00	86.18	60.00	50.65	74.00	33.30	88.00	23.55
46.25	85.25	60.25	50.24	74.25	33.08	88.25	23.42
46.50	84.34	60.50	49.82	74.50	32.86	88.50	23.28
46.75	83.44	60.75	49.41	74.75	32.64	88.75	23.15
47.00	82.55	61.00	49.01	75.00	32.42	89.00	23.02
47.25	81.68	61.25	48.61	75.25	32.20	89.25	22.89
47.50	80.82	61.50	48.21	75.50	31.99	89.50	22.77
47.75	79.98	61.75	47.82	75.75	31.78	89.75	22.64
48.00	79.15	62.00	47.44	76.00	31.57	90.00	22.51
48.25	78.33	62.25	47.06	76.25	31.36	90.25	22.39
48.50	77.52	62.50	46.68	76.50	31.16	90.50	22.27
48.75	76.73	62.75	46.31	76.75	30.96	90.75	22.14
49.00	75.95	63.00	45.95	77.00	30.76	91.00	22.02
49.25	75.18	63.25	45.58	77.25	30.56	91.25	21.90
49.50	74.42	63.50	45.22	77.50	30.36	91.50	21.78
49.75	73.68	63.75	44.87	77.75	30.17	91.75	21.66
50.00	72.94	64.00	44.52	78.00	29.97	92.00	21.55
50.25	72.22	64.25	44.18	78.25	29.78	92.25	21.43
50.50	71.50	64.50	43.83	78.50	29.59	92.50	21.31
50.75	70.80	64.75	43.50	78.75	29.41	92.75	21.20
51.00	70.11	65.00	43.16	79.00	29.22	93.00	21.08
51.25	69.43	65.25	42.83	79.25	29.04	93.25	20.97
51.50	68.76	65.50	42.51	79.50	28.85	93.50	20.86
51.75	68.09	65.75	42.18	79.75	28.67	93.75	20.75
52.00	67.44	66.00	41.86	80.00	28.49	94.00	20.64
52.25	66.80	66.25	41.55	80.25	28.32	94.25	20.53
52.50	66.16	66.50	41.24	80.50	28.14	94.50	20.42
52.75	65.54	66.75	40.93	80.75	27.97	94.75	20.31
53.00	64.92	67.00	40.62	81.00	27.79	95.00	20.21
53.25	64.31	67.25	40.32	81.25	27.62	95.25	20.10
53.50	63.71	67.50	40.02	81.50	27.45	95.50	19.99
53.75	63.12	67.75	39.73	81.75	27.29	95.75	19.89
54.00	62.54	68.00	39.44	82.00	27.12	96.00	19.79

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters

Time Avg: 100%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 17.95 215.4 Inches

BioInitiative ft. 1420.00 17040.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1620977.20	10.25	1927.44	20.25	494.05	30.25	221.41
0.50	648390.88	10.50	1836.80	20.50	482.08	30.50	217.80
0.75	324195.44	10.75	1752.41	20.75	470.53	30.75	214.27
1.00	190703.20	11.00	1673.70	21.00	459.40	31.00	210.83
1.25	124690.55	11.25	1600.17	21.25	448.65	31.25	207.47
1.50	87620.39	11.50	1531.39	21.50	438.28	31.50	204.19
1.75	64839.09	11.75	1466.95	21.75	428.26	31.75	200.99
2.00	49876.22	12.00	1406.49	22.00	418.59	32.00	197.86
2.25	39536.03	12.25	1349.69	22.25	409.23	32.25	194.81
2.50	32098.56	12.50	1296.26	22.50	400.19	32.50	191.82
2.75	26573.40	12.75	1245.95	22.75	391.45	32.75	188.90
3.00	22358.31	13.00	1198.50	23.00	382.98	33.00	186.05
3.25	19070.32	13.25	1153.72	23.25	374.79	33.25	183.26
3.50	16456.62	13.50	1111.40	23.50	366.86	33.50	180.54
3.75	14344.93	13.75	1071.37	23.75	359.18	33.75	177.88
4.00	12614.61	14.00	1033.46	24.00	351.74	34.00	175.27
4.25	11179.15	14.25	997.52	24.25	344.52	34.25	172.72
4.50	9975.24	14.50	963.43	24.50	337.53	34.50	170.23
4.75	8955.68	14.75	931.06	24.75	330.74	34.75	167.79
5.00	8084.67	15.00	900.29	25.00	324.16	35.00	165.40
5.25	7334.74	15.25	871.02	25.25	317.78	35.25	163.06
5.50	6684.44	15.50	843.16	25.50	311.58	35.50	160.77
5.75	6116.90	15.75	816.61	25.75	305.56	35.75	158.53
6.00	5618.64	16.00	791.30	26.00	299.71	36.00	156.34
6.25	5178.84	16.25	767.14	26.25	294.03	36.25	154.19
6.50	4788.71	16.50	744.08	26.50	288.51	36.50	152.08
6.75	4441.03	16.75	722.04	26.75	283.14	36.75	150.02
7.00	4129.88	17.00	700.96	27.00	277.92	37.00	148.00
7.25	3850.30	17.25	680.80	27.25	272.85	37.25	146.02
7.50	3598.17	17.50	661.49	27.50	267.91	37.50	144.08
7.75	3370.01	17.75	642.99	27.75	263.10	37.75	142.18
8.00	3162.88	18.00	625.26	28.00	258.43	38.00	140.31
8.25	2974.27	18.25	608.25	28.25	253.87	38.25	138.49
8.50	2802.03	18.50	591.92	28.50	249.44	38.50	136.69
8.75	2644.33	18.75	576.25	28.75	245.12	38.75	134.94
9.00	2499.58	19.00	561.18	29.00	240.91	39.00	133.21
9.25	2366.39	19.25	546.70	29.25	236.81	39.25	131.52
9.50	2243.57	19.50	532.78	29.50	232.82	39.50	129.86
9.75	2130.06	19.75	519.38	29.75	228.92	39.75	128.23
10.00	2024.96	20.00	506.48	30.00	225.12	40.00	126.63

Notes:

1) Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi(R)^2)$$

$$S = \text{Power Density uW/cm}^2$$

$$\text{EIRP} = 1.64 \cdot \text{ERP}$$

$$\pi() = 3.1459$$

$$R = \text{Distance to device}$$

$$\text{TA} = \text{Time average}$$

$$\% \text{Ref} = \text{Percent reflections}$$

2) 60 percent reflections is equivalent to OET Bulletin 65 equation (10)

3) 100 percent reflections is equivalent to OET Bulletin 65 equation (6)

4) Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010

5) TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)

6) Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 2000% reflections)

Meters 1 Collector Meter - 7 SMART Meters

Time Avg: 100%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 17.95 215.42 Inches

BioInitiative ft. 1420.00 17040.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	125.07	54.25	68.85	68.25	43.50	82.25	29.95
40.50	123.53	54.50	68.22	68.50	43.18	82.50	29.77
40.75	122.02	54.75	67.59	68.75	42.87	82.75	29.59
41.00	120.53	55.00	66.98	69.00	42.56	83.00	29.41
41.25	119.08	55.25	66.38	69.25	42.25	83.25	29.24
41.50	117.65	55.50	65.78	69.50	41.95	83.50	29.06
41.75	116.24	55.75	65.19	69.75	41.65	83.75	28.89
42.00	114.86	56.00	64.61	70.00	41.35	84.00	28.72
42.25	113.51	56.25	64.04	70.25	41.06	84.25	28.55
42.50	112.17	56.50	63.47	70.50	40.77	84.50	28.38
42.75	110.87	56.75	62.91	70.75	40.48	84.75	28.21
43.00	109.58	57.00	62.36	71.00	40.19	85.00	28.04
43.25	108.32	57.25	61.82	71.25	39.91	85.25	27.88
43.50	107.08	57.50	61.28	71.50	39.63	85.50	27.72
43.75	105.86	57.75	60.75	71.75	39.36	85.75	27.56
44.00	104.66	58.00	60.23	72.00	39.09	86.00	27.40
44.25	103.48	58.25	59.72	72.25	38.82	86.25	27.24
44.50	102.32	58.50	59.21	72.50	38.55	86.50	27.08
44.75	101.18	58.75	58.70	72.75	38.28	86.75	26.92
45.00	100.06	59.00	58.21	73.00	38.02	87.00	26.77
45.25	98.95	59.25	57.72	73.25	37.76	87.25	26.62
45.50	97.87	59.50	57.23	73.50	37.51	87.50	26.46
45.75	96.80	59.75	56.75	73.75	37.25	87.75	26.31
46.00	95.75	60.00	56.28	74.00	37.00	88.00	26.16
46.25	94.72	60.25	55.82	74.25	36.75	88.25	26.02
46.50	93.71	60.50	55.36	74.50	36.51	88.50	25.87
46.75	92.71	60.75	54.90	74.75	36.26	88.75	25.72
47.00	91.72	61.00	54.45	75.00	36.02	89.00	25.58
47.25	90.76	61.25	54.01	75.25	35.78	89.25	25.44
47.50	89.80	61.50	53.57	75.50	35.55	89.50	25.30
47.75	88.86	61.75	53.14	75.75	35.31	89.75	25.15
48.00	87.94	62.00	52.71	76.00	35.08	90.00	25.01
48.25	87.03	62.25	52.29	76.25	34.85	90.25	24.88
48.50	86.14	62.50	51.87	76.50	34.62	90.50	24.74
48.75	85.26	62.75	51.46	76.75	34.40	90.75	24.60
49.00	84.39	63.00	51.05	77.00	34.17	91.00	24.47
49.25	83.53	63.25	50.65	77.25	33.95	91.25	24.33
49.50	82.69	63.50	50.25	77.50	33.73	91.50	24.20
49.75	81.86	63.75	49.86	77.75	33.52	91.75	24.07
50.00	81.05	64.00	49.47	78.00	33.30	92.00	23.94
50.25	80.24	64.25	49.08	78.25	33.09	92.25	23.81
50.50	79.45	64.50	48.70	78.50	32.88	92.50	23.68
50.75	78.67	64.75	48.33	78.75	32.67	92.75	23.55
51.00	77.90	65.00	47.96	79.00	32.47	93.00	23.43
51.25	77.14	65.25	47.59	79.25	32.26	93.25	23.30
51.50	76.39	65.50	47.23	79.50	32.06	93.50	23.18
51.75	75.66	65.75	46.87	79.75	31.86	93.75	23.05
52.00	74.93	66.00	46.51	80.00	31.66	94.00	22.93
52.25	74.22	66.25	46.16	80.25	31.46	94.25	22.81
52.50	73.51	66.50	45.82	80.50	31.27	94.50	22.69
52.75	72.82	66.75	45.48	80.75	31.07	94.75	22.57
53.00	72.13	67.00	45.14	81.00	30.88	95.00	22.45
53.25	71.46	67.25	44.80	81.25	30.69	95.25	22.33
53.50	70.79	67.50	44.47	81.50	30.50	95.50	22.22
53.75	70.13	67.75	44.14	81.75	30.32	95.75	22.10
54.00	69.48	68.00	43.82	82.00	30.13	96.00	21.99

Table 16 – 100%