

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 1% % Reflection 1000%

Distance where limits are exceeded	
FCC ft.	0.91 10.9 Inches
BioInitiative ft.	74.70 896.4 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	4447.58	10.25	5.29	20.25	1.36	30.25	0.61
0.50	1779.03	10.50	5.04	20.50	1.32	30.50	0.60
0.75	889.52	10.75	4.81	20.75	1.29	30.75	0.59
1.00	523.24	11.00	4.59	21.00	1.26	31.00	0.58
1.25	342.12	11.25	4.39	21.25	1.23	31.25	0.57
1.50	240.41	11.50	4.20	21.50	1.20	31.50	0.56
1.75	177.90	11.75	4.02	21.75	1.18	31.75	0.55
2.00	136.85	12.00	3.86	22.00	1.15	32.00	0.54
2.25	108.48	12.25	3.70	22.25	1.12	32.25	0.53
2.50	88.07	12.50	3.56	22.50	1.10	32.50	0.53
2.75	72.91	12.75	3.42	22.75	1.07	32.75	0.52
3.00	61.35	13.00	3.29	23.00	1.05	33.00	0.51
3.25	52.32	13.25	3.17	23.25	1.03	33.25	0.50
3.50	45.15	13.50	3.05	23.50	1.01	33.50	0.50
3.75	39.36	13.75	2.94	23.75	0.99	33.75	0.49
4.00	34.61	14.00	2.84	24.00	0.97	34.00	0.48
4.25	30.67	14.25	2.74	24.25	0.95	34.25	0.47
4.50	27.37	14.50	2.64	24.50	0.93	34.50	0.47
4.75	24.57	14.75	2.55	24.75	0.91	34.75	0.46
5.00	22.18	15.00	2.47	25.00	0.89	35.00	0.45
5.25	20.12	15.25	2.39	25.25	0.87	35.25	0.45
5.50	18.34	15.50	2.31	25.50	0.85	35.50	0.44
5.75	16.78	15.75	2.24	25.75	0.84	35.75	0.43
6.00	15.42	16.00	2.17	26.00	0.82	36.00	0.43
6.25	14.21	16.25	2.10	26.25	0.81	36.25	0.42
6.50	13.14	16.50	2.04	26.50	0.79	36.50	0.42
6.75	12.19	16.75	1.98	26.75	0.78	36.75	0.41
7.00	11.33	17.00	1.92	27.00	0.76	37.00	0.41
7.25	10.56	17.25	1.87	27.25	0.75	37.25	0.40
7.50	9.87	17.50	1.81	27.50	0.74	37.50	0.40
7.75	9.25	17.75	1.76	27.75	0.72	37.75	0.39
8.00	8.68	18.00	1.72	28.00	0.71	38.00	0.38
8.25	8.16	18.25	1.67	28.25	0.70	38.25	0.38
8.50	7.69	18.50	1.62	28.50	0.68	38.50	0.38
8.75	7.26	18.75	1.58	28.75	0.67	38.75	0.37
9.00	6.86	19.00	1.54	29.00	0.66	39.00	0.37
9.25	6.49	19.25	1.50	29.25	0.65	39.25	0.36
9.50	6.16	19.50	1.46	29.50	0.64	39.50	0.36
9.75	5.84	19.75	1.43	29.75	0.63	39.75	0.35
10.00	5.56	20.00	1.39	30.00	0.62	40.00	0.35

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 1% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 0.91 10.88 Inches
 BioInitiative ft. 74.70 896.40 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.34	54.25	0.19	68.25	0.12	82.25	0.08
40.50	0.34	54.50	0.19	68.50	0.12	82.50	0.08
40.75	0.33	54.75	0.19	68.75	0.12	82.75	0.08
41.00	0.33	55.00	0.18	69.00	0.12	83.00	0.08
41.25	0.33	55.25	0.18	69.25	0.12	83.25	0.08
41.50	0.32	55.50	0.18	69.50	0.12	83.50	0.08
41.75	0.32	55.75	0.18	69.75	0.11	83.75	0.08
42.00	0.32	56.00	0.18	70.00	0.11	84.00	0.08
42.25	0.31	56.25	0.18	70.25	0.11	84.25	0.08
42.50	0.31	56.50	0.17	70.50	0.11	84.50	0.08
42.75	0.30	56.75	0.17	70.75	0.11	84.75	0.08
43.00	0.30	57.00	0.17	71.00	0.11	85.00	0.08
43.25	0.30	57.25	0.17	71.25	0.11	85.25	0.08
43.50	0.29	57.50	0.17	71.50	0.11	85.50	0.08
43.75	0.29	57.75	0.17	71.75	0.11	85.75	0.08
44.00	0.29	58.00	0.17	72.00	0.11	86.00	0.08
44.25	0.28	58.25	0.16	72.25	0.11	86.25	0.07
44.50	0.28	58.50	0.16	72.50	0.11	86.50	0.07
44.75	0.28	58.75	0.16	72.75	0.11	86.75	0.07
45.00	0.27	59.00	0.16	73.00	0.10	87.00	0.07
45.25	0.27	59.25	0.16	73.25	0.10	87.25	0.07
45.50	0.27	59.50	0.16	73.50	0.10	87.50	0.07
45.75	0.27	59.75	0.16	73.75	0.10	87.75	0.07
46.00	0.26	60.00	0.15	74.00	0.10	88.00	0.07
46.25	0.26	60.25	0.15	74.25	0.10	88.25	0.07
46.50	0.26	60.50	0.15	74.50	0.10	88.50	0.07
46.75	0.25	60.75	0.15	74.75	0.10	88.75	0.07
47.00	0.25	61.00	0.15	75.00	0.10	89.00	0.07
47.25	0.25	61.25	0.15	75.25	0.10	89.25	0.07
47.50	0.25	61.50	0.15	75.50	0.10	89.50	0.07
47.75	0.24	61.75	0.15	75.75	0.10	89.75	0.07
48.00	0.24	62.00	0.14	76.00	0.10	90.00	0.07
48.25	0.24	62.25	0.14	76.25	0.10	90.25	0.07
48.50	0.24	62.50	0.14	76.50	0.09	90.50	0.07
48.75	0.23	62.75	0.14	76.75	0.09	90.75	0.07
49.00	0.23	63.00	0.14	77.00	0.09	91.00	0.07
49.25	0.23	63.25	0.14	77.25	0.09	91.25	0.07
49.50	0.23	63.50	0.14	77.50	0.09	91.50	0.07
49.75	0.22	63.75	0.14	77.75	0.09	91.75	0.07
50.00	0.22	64.00	0.14	78.00	0.09	92.00	0.07
50.25	0.22	64.25	0.13	78.25	0.09	92.25	0.07
50.50	0.22	64.50	0.13	78.50	0.09	92.50	0.06
50.75	0.22	64.75	0.13	78.75	0.09	92.75	0.06
51.00	0.21	65.00	0.13	79.00	0.09	93.00	0.06
51.25	0.21	65.25	0.13	79.25	0.09	93.25	0.06
51.50	0.21	65.50	0.13	79.50	0.09	93.50	0.06
51.75	0.21	65.75	0.13	79.75	0.09	93.75	0.06
52.00	0.21	66.00	0.13	80.00	0.09	94.00	0.06
52.25	0.20	66.25	0.13	80.25	0.09	94.25	0.06
52.50	0.20	66.50	0.13	80.50	0.09	94.50	0.06
52.75	0.20	66.75	0.12	80.75	0.09	94.75	0.06
53.00	0.20	67.00	0.12	81.00	0.08	95.00	0.06
53.25	0.20	67.25	0.12	81.25	0.08	95.25	0.06
53.50	0.19	67.50	0.12	81.50	0.08	95.50	0.06
53.75	0.19	67.75	0.12	81.75	0.08	95.75	0.06
54.00	0.19	68.00	0.12	82.00	0.08	96.00	0.06

Table 15 – 1%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 10% % Reflection 1000%

Distance where limits are exceeded	
FCC ft.	2.96 35.6 Inches
BioInitiative ft.	236.00 2832.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	44475.79	10.25	52.88	20.25	13.56	30.25	6.08
0.50	17790.32	10.50	50.40	20.50	13.23	30.50	5.98
0.75	8895.16	10.75	48.08	20.75	12.91	30.75	5.88
1.00	5232.45	11.00	45.92	21.00	12.60	31.00	5.78
1.25	3421.21	11.25	43.91	21.25	12.31	31.25	5.69
1.50	2404.10	11.50	42.02	21.50	12.03	31.50	5.60
1.75	1779.03	11.75	40.25	21.75	11.75	31.75	5.51
2.00	1368.49	12.00	38.59	22.00	11.49	32.00	5.43
2.25	1084.78	12.25	37.03	22.25	11.23	32.25	5.35
2.50	880.71	12.50	35.57	22.50	10.98	32.50	5.26
2.75	729.11	12.75	34.19	22.75	10.74	32.75	5.18
3.00	613.46	13.00	32.88	23.00	10.51	33.00	5.10
3.25	523.24	13.25	31.66	23.25	10.28	33.25	5.03
3.50	451.53	13.50	30.49	23.50	10.07	33.50	4.95
3.75	393.59	13.75	29.40	23.75	9.86	33.75	4.88
4.00	346.12	14.00	28.36	24.00	9.65	34.00	4.81
4.25	306.73	14.25	27.37	24.25	9.45	34.25	4.74
4.50	273.70	14.50	26.43	24.50	9.26	34.50	4.67
4.75	245.72	14.75	25.55	24.75	9.07	34.75	4.60
5.00	221.82	15.00	24.70	25.00	8.89	35.00	4.54
5.25	201.25	15.25	23.90	25.25	8.72	35.25	4.47
5.50	183.41	15.50	23.13	25.50	8.55	35.50	4.41
5.75	167.83	15.75	22.41	25.75	8.38	35.75	4.35
6.00	154.16	16.00	21.71	26.00	8.22	36.00	4.29
6.25	142.10	16.25	21.05	26.25	8.07	36.25	4.23
6.50	131.39	16.50	20.42	26.50	7.92	36.50	4.17
6.75	121.85	16.75	19.81	26.75	7.77	36.75	4.12
7.00	113.31	17.00	19.23	27.00	7.63	37.00	4.06
7.25	105.64	17.25	18.68	27.25	7.49	37.25	4.01
7.50	98.73	17.50	18.15	27.50	7.35	37.50	3.95
7.75	92.47	17.75	17.64	27.75	7.22	37.75	3.90
8.00	86.78	18.00	17.16	28.00	7.09	38.00	3.85
8.25	81.61	18.25	16.69	28.25	6.97	38.25	3.80
8.50	76.88	18.50	16.24	28.50	6.84	38.50	3.75
8.75	72.55	18.75	15.81	28.75	6.73	38.75	3.70
9.00	68.58	19.00	15.40	29.00	6.61	39.00	3.65
9.25	64.93	19.25	15.00	29.25	6.50	39.25	3.61
9.50	61.56	19.50	14.62	29.50	6.39	39.50	3.56
9.75	58.44	19.75	14.25	29.75	6.28	39.75	3.52
10.00	55.56	20.00	13.90	30.00	6.18	40.00	3.47

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
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SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 10% % Reflection 1000%

Distance where limits are exceeded

FCC ft. 2.96 35.56 Inches

BioInitiative ft. 236.00 2832.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	3.43	54.25	1.89	68.25	1.19	82.25	0.82
40.50	3.39	54.50	1.87	68.50	1.18	82.50	0.82
40.75	3.35	54.75	1.85	68.75	1.18	82.75	0.81
41.00	3.31	55.00	1.84	69.00	1.17	83.00	0.81
41.25	3.27	55.25	1.82	69.25	1.16	83.25	0.80
41.50	3.23	55.50	1.80	69.50	1.15	83.50	0.80
41.75	3.19	55.75	1.79	69.75	1.14	83.75	0.79
42.00	3.15	56.00	1.77	70.00	1.13	84.00	0.79
42.25	3.11	56.25	1.76	70.25	1.13	84.25	0.78
42.50	3.08	56.50	1.74	70.50	1.12	84.50	0.78
42.75	3.04	56.75	1.73	70.75	1.11	84.75	0.77
43.00	3.01	57.00	1.71	71.00	1.10	85.00	0.77
43.25	2.97	57.25	1.70	71.25	1.10	85.25	0.76
43.50	2.94	57.50	1.68	71.50	1.09	85.50	0.76
43.75	2.90	57.75	1.67	71.75	1.08	85.75	0.76
44.00	2.87	58.00	1.65	72.00	1.07	86.00	0.75
44.25	2.84	58.25	1.64	72.25	1.07	86.25	0.75
44.50	2.81	58.50	1.62	72.50	1.06	86.50	0.74
44.75	2.78	58.75	1.61	72.75	1.05	86.75	0.74
45.00	2.75	59.00	1.60	73.00	1.04	87.00	0.73
45.25	2.72	59.25	1.58	73.25	1.04	87.25	0.73
45.50	2.69	59.50	1.57	73.50	1.03	87.50	0.73
45.75	2.66	59.75	1.56	73.75	1.02	87.75	0.72
46.00	2.63	60.00	1.54	74.00	1.02	88.00	0.72
46.25	2.60	60.25	1.53	74.25	1.01	88.25	0.71
46.50	2.57	60.50	1.52	74.50	1.00	88.50	0.71
46.75	2.54	60.75	1.51	74.75	0.99	88.75	0.71
47.00	2.52	61.00	1.49	75.00	0.99	89.00	0.70
47.25	2.49	61.25	1.48	75.25	0.98	89.25	0.70
47.50	2.46	61.50	1.47	75.50	0.98	89.50	0.69
47.75	2.44	61.75	1.46	75.75	0.97	89.75	0.69
48.00	2.41	62.00	1.45	76.00	0.96	90.00	0.69
48.25	2.39	62.25	1.43	76.25	0.96	90.25	0.68
48.50	2.36	62.50	1.42	76.50	0.95	90.50	0.68
48.75	2.34	62.75	1.41	76.75	0.94	90.75	0.68
49.00	2.32	63.00	1.40	77.00	0.94	91.00	0.67
49.25	2.29	63.25	1.39	77.25	0.93	91.25	0.67
49.50	2.27	63.50	1.38	77.50	0.93	91.50	0.66
49.75	2.25	63.75	1.37	77.75	0.92	91.75	0.66
50.00	2.22	64.00	1.36	78.00	0.91	92.00	0.66
50.25	2.20	64.25	1.35	78.25	0.91	92.25	0.65
50.50	2.18	64.50	1.34	78.50	0.90	92.50	0.65
50.75	2.16	64.75	1.33	78.75	0.90	92.75	0.65
51.00	2.14	65.00	1.32	79.00	0.89	93.00	0.64
51.25	2.12	65.25	1.31	79.25	0.89	93.25	0.64
51.50	2.10	65.50	1.30	79.50	0.88	93.50	0.64
51.75	2.08	65.75	1.29	79.75	0.87	93.75	0.63
52.00	2.06	66.00	1.28	80.00	0.87	94.00	0.63
52.25	2.04	66.25	1.27	80.25	0.86	94.25	0.63
52.50	2.02	66.50	1.26	80.50	0.86	94.50	0.62
52.75	2.00	66.75	1.25	80.75	0.85	94.75	0.62
53.00	1.98	67.00	1.24	81.00	0.85	95.00	0.62
53.25	1.96	67.25	1.23	81.25	0.84	95.25	0.61
53.50	1.94	67.50	1.22	81.50	0.84	95.50	0.61
53.75	1.92	67.75	1.21	81.75	0.83	95.75	0.61
54.00	1.91	68.00	1.20	82.00	0.83	96.00	0.60

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 20% % Reflection 1000%

Distance where limits are exceeded	
FCC ft.	50.4 Inches
BioInitiative ft.	3996.0 Inches
4.20	
333.00	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	88951.58	10.25	105.77	20.25	27.11	30.25	12.15
0.50	35580.63	10.50	100.79	20.50	26.45	30.50	11.95
0.75	17790.32	10.75	96.16	20.75	25.82	30.75	11.76
1.00	10464.89	11.00	91.84	21.00	25.21	31.00	11.57
1.25	6842.43	11.25	87.81	21.25	24.62	31.25	11.39
1.50	4808.19	11.50	84.04	21.50	24.05	31.50	11.21
1.75	3558.06	11.75	80.50	21.75	23.50	31.75	11.03
2.00	2736.97	12.00	77.18	22.00	22.97	32.00	10.86
2.25	2169.55	12.25	74.06	22.25	22.46	32.25	10.69
2.50	1761.42	12.50	71.13	22.50	21.96	32.50	10.53
2.75	1458.22	12.75	68.37	22.75	21.48	32.75	10.37
3.00	1226.92	13.00	65.77	23.00	21.02	33.00	10.21
3.25	1046.49	13.25	63.31	23.25	20.57	33.25	10.06
3.50	903.06	13.50	60.99	23.50	20.13	33.50	9.91
3.75	787.18	13.75	58.79	23.75	19.71	33.75	9.76
4.00	692.23	14.00	56.71	24.00	19.30	34.00	9.62
4.25	613.46	14.25	54.74	24.25	18.91	34.25	9.48
4.50	547.39	14.50	52.87	24.50	18.52	34.50	9.34
4.75	491.45	14.75	51.09	24.75	18.15	34.75	9.21
5.00	443.65	15.00	49.40	25.00	17.79	35.00	9.08
5.25	402.50	15.25	47.80	25.25	17.44	35.25	8.95
5.50	366.81	15.50	46.27	25.50	17.10	35.50	8.82
5.75	335.67	15.75	44.81	25.75	16.77	35.75	8.70
6.00	308.32	16.00	43.42	26.00	16.45	36.00	8.58
6.25	284.19	16.25	42.10	26.25	16.13	36.25	8.46
6.50	262.78	16.50	40.83	26.50	15.83	36.50	8.35
6.75	243.70	16.75	39.62	26.75	15.54	36.75	8.23
7.00	226.63	17.00	38.47	27.00	15.25	37.00	8.12
7.25	211.29	17.25	37.36	27.25	14.97	37.25	8.01
7.50	197.45	17.50	36.30	27.50	14.70	37.50	7.91
7.75	184.93	17.75	35.28	27.75	14.44	37.75	7.80
8.00	173.56	18.00	34.31	28.00	14.18	38.00	7.70
8.25	163.21	18.25	33.38	28.25	13.93	38.25	7.60
8.50	153.76	18.50	32.48	28.50	13.69	38.50	7.50
8.75	145.11	18.75	31.62	28.75	13.45	38.75	7.40
9.00	137.17	19.00	30.80	29.00	13.22	39.00	7.31
9.25	129.86	19.25	30.00	29.25	13.00	39.25	7.22
9.50	123.12	19.50	29.24	29.50	12.78	39.50	7.13
9.75	116.89	19.75	28.50	29.75	12.56	39.75	7.04
10.00	111.12	20.00	27.79	30.00	12.35	40.00	6.95

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 20% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 4.20 50.38 Inches
 BioInitiative ft. 333.00 3996.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	6.86	54.25	3.78	68.25	2.39	82.25	1.64
40.50	6.78	54.50	3.74	68.50	2.37	82.50	1.63
40.75	6.70	54.75	3.71	68.75	2.35	82.75	1.62
41.00	6.61	55.00	3.68	69.00	2.34	83.00	1.61
41.25	6.53	55.25	3.64	69.25	2.32	83.25	1.60
41.50	6.46	55.50	3.61	69.50	2.30	83.50	1.59
41.75	6.38	55.75	3.58	69.75	2.29	83.75	1.59
42.00	6.30	56.00	3.55	70.00	2.27	84.00	1.58
42.25	6.23	56.25	3.51	70.25	2.25	84.25	1.57
42.50	6.16	56.50	3.48	70.50	2.24	84.50	1.56
42.75	6.08	56.75	3.45	70.75	2.22	84.75	1.55
43.00	6.01	57.00	3.42	71.00	2.21	85.00	1.54
43.25	5.94	57.25	3.39	71.25	2.19	85.25	1.53
43.50	5.88	57.50	3.36	71.50	2.17	85.50	1.52
43.75	5.81	57.75	3.33	71.75	2.16	85.75	1.51
44.00	5.74	58.00	3.31	72.00	2.14	86.00	1.50
44.25	5.68	58.25	3.28	72.25	2.13	86.25	1.49
44.50	5.61	58.50	3.25	72.50	2.12	86.50	1.49
44.75	5.55	58.75	3.22	72.75	2.10	86.75	1.48
45.00	5.49	59.00	3.19	73.00	2.09	87.00	1.47
45.25	5.43	59.25	3.17	73.25	2.07	87.25	1.46
45.50	5.37	59.50	3.14	73.50	2.06	87.50	1.45
45.75	5.31	59.75	3.11	73.75	2.04	87.75	1.44
46.00	5.25	60.00	3.09	74.00	2.03	88.00	1.44
46.25	5.20	60.25	3.06	74.25	2.02	88.25	1.43
46.50	5.14	60.50	3.04	74.50	2.00	88.50	1.42
46.75	5.09	60.75	3.01	74.75	1.99	88.75	1.41
47.00	5.03	61.00	2.99	75.00	1.98	89.00	1.40
47.25	4.98	61.25	2.96	75.25	1.96	89.25	1.40
47.50	4.93	61.50	2.94	75.50	1.95	89.50	1.39
47.75	4.88	61.75	2.92	75.75	1.94	89.75	1.38
48.00	4.83	62.00	2.89	76.00	1.93	90.00	1.37
48.25	4.78	62.25	2.87	76.25	1.91	90.25	1.37
48.50	4.73	62.50	2.85	76.50	1.90	90.50	1.36
48.75	4.68	62.75	2.82	76.75	1.89	90.75	1.35
49.00	4.63	63.00	2.80	77.00	1.88	91.00	1.34
49.25	4.58	63.25	2.78	77.25	1.86	91.25	1.34
49.50	4.54	63.50	2.76	77.50	1.85	91.50	1.33
49.75	4.49	63.75	2.74	77.75	1.84	91.75	1.32
50.00	4.45	64.00	2.71	78.00	1.83	92.00	1.31
50.25	4.40	64.25	2.69	78.25	1.82	92.25	1.31
50.50	4.36	64.50	2.67	78.50	1.80	92.50	1.30
50.75	4.32	64.75	2.65	78.75	1.79	92.75	1.29
51.00	4.27	65.00	2.63	79.00	1.78	93.00	1.29
51.25	4.23	65.25	2.61	79.25	1.77	93.25	1.28
51.50	4.19	65.50	2.59	79.50	1.76	93.50	1.27
51.75	4.15	65.75	2.57	79.75	1.75	93.75	1.27
52.00	4.11	66.00	2.55	80.00	1.74	94.00	1.26
52.25	4.07	66.25	2.53	80.25	1.73	94.25	1.25
52.50	4.03	66.50	2.51	80.50	1.72	94.50	1.25
52.75	4.00	66.75	2.50	80.75	1.71	94.75	1.24
53.00	3.96	67.00	2.48	81.00	1.69	95.00	1.23
53.25	3.92	67.25	2.46	81.25	1.68	95.25	1.23
53.50	3.88	67.50	2.44	81.50	1.67	95.50	1.22
53.75	3.85	67.75	2.42	81.75	1.66	95.75	1.21
54.00	3.81	68.00	2.40	82.00	1.65	96.00	1.21

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 30% % Reflection 1000%

Distance where limits are exceeded	
FCC ft.	5.14 61.7 Inches
BioInitiative ft.	408.00 4896.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	133427.37	10.25	158.65	20.25	40.67	30.25	18.23
0.50	53370.95	10.50	151.19	20.50	39.68	30.50	17.93
0.75	26685.47	10.75	144.25	20.75	38.73	30.75	17.64
1.00	15697.34	11.00	137.77	21.00	37.81	31.00	17.35
1.25	10263.64	11.25	131.72	21.25	36.93	31.25	17.08
1.50	7212.29	11.50	126.05	21.50	36.08	31.50	16.81
1.75	5337.09	11.75	120.75	21.75	35.25	31.75	16.54
2.00	4105.46	12.00	115.77	22.00	34.46	32.00	16.29
2.25	3254.33	12.25	111.10	22.25	33.69	32.25	16.04
2.50	2642.13	12.50	106.70	22.50	32.94	32.50	15.79
2.75	2187.33	12.75	102.56	22.75	32.22	32.75	15.55
3.00	1840.38	13.00	98.65	23.00	31.52	33.00	15.31
3.25	1569.73	13.25	94.97	23.25	30.85	33.25	15.09
3.50	1354.59	13.50	91.48	23.50	30.20	33.50	14.86
3.75	1180.77	13.75	88.19	23.75	29.57	33.75	14.64
4.00	1038.35	14.00	85.07	24.00	28.95	34.00	14.43
4.25	920.19	14.25	82.11	24.25	28.36	34.25	14.22
4.50	821.09	14.50	79.30	24.50	27.78	34.50	14.01
4.75	737.17	14.75	76.64	24.75	27.22	34.75	13.81
5.00	665.47	15.00	74.11	25.00	26.68	35.00	13.61
5.25	603.74	15.25	71.70	25.25	26.16	35.25	13.42
5.50	550.22	15.50	69.40	25.50	25.65	35.50	13.23
5.75	503.50	15.75	67.22	25.75	25.15	35.75	13.05
6.00	462.49	16.00	65.13	26.00	24.67	36.00	12.87
6.25	426.29	16.25	63.15	26.25	24.20	36.25	12.69
6.50	394.17	16.50	61.25	26.50	23.75	36.50	12.52
6.75	365.55	16.75	59.43	26.75	23.31	36.75	12.35
7.00	339.94	17.00	57.70	27.00	22.88	37.00	12.18
7.25	316.93	17.25	56.04	27.25	22.46	37.25	12.02
7.50	296.18	17.50	54.45	27.50	22.05	37.50	11.86
7.75	277.40	17.75	52.93	27.75	21.66	37.75	11.70
8.00	260.35	18.00	51.47	28.00	21.27	38.00	11.55
8.25	244.82	18.25	50.07	28.25	20.90	38.25	11.40
8.50	230.64	18.50	48.72	28.50	20.53	38.50	11.25
8.75	217.66	18.75	47.43	28.75	20.18	38.75	11.11
9.00	205.75	19.00	46.19	29.00	19.83	39.00	10.96
9.25	194.78	19.25	45.00	29.25	19.49	39.25	10.83
9.50	184.67	19.50	43.85	29.50	19.16	39.50	10.69
9.75	175.33	19.75	42.75	29.75	18.84	39.75	10.56
10.00	166.68	20.00	41.69	30.00	18.53	40.00	10.42

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 30% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 5.14 61.74 Inches
 BioInitiative ft. 408.00 4896.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	10.29	54.25	5.67	68.25	3.58	82.25	2.47
40.50	10.17	54.50	5.62	68.50	3.55	82.50	2.45
40.75	10.04	54.75	5.56	68.75	3.53	82.75	2.44
41.00	9.92	55.00	5.51	69.00	3.50	83.00	2.42
41.25	9.80	55.25	5.46	69.25	3.48	83.25	2.41
41.50	9.68	55.50	5.41	69.50	3.45	83.50	2.39
41.75	9.57	55.75	5.37	69.75	3.43	83.75	2.38
42.00	9.45	56.00	5.32	70.00	3.40	84.00	2.36
42.25	9.34	56.25	5.27	70.25	3.38	84.25	2.35
42.50	9.23	56.50	5.22	70.50	3.36	84.50	2.34
42.75	9.13	56.75	5.18	70.75	3.33	84.75	2.32
43.00	9.02	57.00	5.13	71.00	3.31	85.00	2.31
43.25	8.92	57.25	5.09	71.25	3.29	85.25	2.29
43.50	8.81	57.50	5.04	71.50	3.26	85.50	2.28
43.75	8.71	57.75	5.00	71.75	3.24	85.75	2.27
44.00	8.61	58.00	4.96	72.00	3.22	86.00	2.26
44.25	8.52	58.25	4.92	72.25	3.20	86.25	2.24
44.50	8.42	58.50	4.87	72.50	3.17	86.50	2.23
44.75	8.33	58.75	4.83	72.75	3.15	86.75	2.22
45.00	8.24	59.00	4.79	73.00	3.13	87.00	2.20
45.25	8.15	59.25	4.75	73.25	3.11	87.25	2.19
45.50	8.06	59.50	4.71	73.50	3.09	87.50	2.18
45.75	7.97	59.75	4.67	73.75	3.07	87.75	2.17
46.00	7.88	60.00	4.63	74.00	3.05	88.00	2.15
46.25	7.80	60.25	4.59	74.25	3.03	88.25	2.14
46.50	7.71	60.50	4.56	74.50	3.00	88.50	2.13
46.75	7.63	60.75	4.52	74.75	2.98	88.75	2.12
47.00	7.55	61.00	4.48	75.00	2.97	89.00	2.11
47.25	7.47	61.25	4.45	75.25	2.95	89.25	2.09
47.50	7.39	61.50	4.41	75.50	2.93	89.50	2.08
47.75	7.31	61.75	4.37	75.75	2.91	89.75	2.07
48.00	7.24	62.00	4.34	76.00	2.89	90.00	2.06
48.25	7.16	62.25	4.30	76.25	2.87	90.25	2.05
48.50	7.09	62.50	4.27	76.50	2.85	90.50	2.04
48.75	7.02	62.75	4.24	76.75	2.83	90.75	2.03
49.00	6.95	63.00	4.20	77.00	2.81	91.00	2.01
49.25	6.88	63.25	4.17	77.25	2.79	91.25	2.00
49.50	6.81	63.50	4.14	77.50	2.78	91.50	1.99
49.75	6.74	63.75	4.10	77.75	2.76	91.75	1.98
50.00	6.67	64.00	4.07	78.00	2.74	92.00	1.97
50.25	6.60	64.25	4.04	78.25	2.72	92.25	1.96
50.50	6.54	64.50	4.01	78.50	2.71	92.50	1.95
50.75	6.48	64.75	3.98	78.75	2.69	92.75	1.94
51.00	6.41	65.00	3.95	79.00	2.67	93.00	1.93
51.25	6.35	65.25	3.92	79.25	2.66	93.25	1.92
51.50	6.29	65.50	3.89	79.50	2.64	93.50	1.91
51.75	6.23	65.75	3.86	79.75	2.62	93.75	1.90
52.00	6.17	66.00	3.83	80.00	2.61	94.00	1.89
52.25	6.11	66.25	3.80	80.25	2.59	94.25	1.88
52.50	6.05	66.50	3.77	80.50	2.57	94.50	1.87
52.75	5.99	66.75	3.74	80.75	2.56	94.75	1.86
53.00	5.94	67.00	3.72	81.00	2.54	95.00	1.85
53.25	5.88	67.25	3.69	81.25	2.53	95.25	1.84
53.50	5.83	67.50	3.66	81.50	2.51	95.50	1.83
53.75	5.77	67.75	3.63	81.75	2.50	95.75	1.82
54.00	5.72	68.00	3.61	82.00	2.48	96.00	1.81

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 40% % Reflection 1000%

Distance where limits are exceeded			
FCC ft.		71.3 Inches	
BioInitiative ft.		5652.0 Inches	
5.94		471.00	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	177903.17	10.25	211.54	20.25	54.22	30.25	24.30
0.50	71161.27	10.50	201.59	20.50	52.91	30.50	23.90
0.75	35580.63	10.75	192.33	20.75	51.64	30.75	23.52
1.00	20929.78	11.00	183.69	21.00	50.42	31.00	23.14
1.25	13684.86	11.25	175.62	21.25	49.24	31.25	22.77
1.50	9616.39	11.50	168.07	21.50	48.10	31.50	22.41
1.75	7116.13	11.75	161.00	21.75	47.00	31.75	22.06
2.00	5473.94	12.00	154.36	22.00	45.94	32.00	21.72
2.25	4339.10	12.25	148.13	22.25	44.91	32.25	21.38
2.50	3522.83	12.50	142.27	22.50	43.92	32.50	21.05
2.75	2916.45	12.75	136.74	22.75	42.96	32.75	20.73
3.00	2453.84	13.00	131.54	23.00	42.03	33.00	20.42
3.25	2092.98	13.25	126.62	23.25	41.13	33.25	20.11
3.50	1806.12	13.50	121.98	23.50	40.26	33.50	19.81
3.75	1574.36	13.75	117.58	23.75	39.42	33.75	19.52
4.00	1384.46	14.00	113.42	24.00	38.60	34.00	19.24
4.25	1226.92	14.25	109.48	24.25	37.81	34.25	18.96
4.50	1094.79	14.50	105.74	24.50	37.04	34.50	18.68
4.75	982.89	14.75	102.18	24.75	36.30	34.75	18.41
5.00	887.30	15.00	98.81	25.00	35.58	35.00	18.15
5.25	804.99	15.25	95.60	25.25	34.88	35.25	17.90
5.50	733.62	15.50	92.54	25.50	34.20	35.50	17.64
5.75	671.33	15.75	89.62	25.75	33.53	35.75	17.40
6.00	616.65	16.00	86.85	26.00	32.89	36.00	17.16
6.25	568.38	16.25	84.19	26.25	32.27	36.25	16.92
6.50	525.56	16.50	81.66	26.50	31.66	36.50	16.69
6.75	487.41	16.75	79.24	26.75	31.07	36.75	16.46
7.00	453.26	17.00	76.93	27.00	30.50	37.00	16.24
7.25	422.57	17.25	74.72	27.25	29.94	37.25	16.03
7.50	394.90	17.50	72.60	27.50	29.40	37.50	15.81
7.75	369.86	17.75	70.57	27.75	28.88	37.75	15.60
8.00	347.13	18.00	68.62	28.00	28.36	38.00	15.40
8.25	326.43	18.25	66.76	28.25	27.86	38.25	15.20
8.50	307.52	18.50	64.96	28.50	27.38	38.50	15.00
8.75	290.22	18.75	63.24	28.75	26.90	38.75	14.81
9.00	274.33	19.00	61.59	29.00	26.44	39.00	14.62
9.25	259.71	19.25	60.00	29.25	25.99	39.25	14.43
9.50	246.23	19.50	58.47	29.50	25.55	39.50	14.25
9.75	233.78	19.75	57.00	29.75	25.12	39.75	14.07
10.00	222.24	20.00	55.59	30.00	24.71	40.00	13.90

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 40% % Reflection 1000%

Distance where limits are exceeded

FCC ft. 5.94 71.31 Inches

BioInitiative ft. 471.00 5652.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	13.73	54.25	7.56	68.25	4.77	82.25	3.29
40.50	13.56	54.50	7.49	68.50	4.74	82.50	3.27
40.75	13.39	54.75	7.42	68.75	4.70	82.75	3.25
41.00	13.23	55.00	7.35	69.00	4.67	83.00	3.23
41.25	13.07	55.25	7.28	69.25	4.64	83.25	3.21
41.50	12.91	55.50	7.22	69.50	4.60	83.50	3.19
41.75	12.76	55.75	7.15	69.75	4.57	83.75	3.17
42.00	12.61	56.00	7.09	70.00	4.54	84.00	3.15
42.25	12.46	56.25	7.03	70.25	4.51	84.25	3.13
42.50	12.31	56.50	6.97	70.50	4.47	84.50	3.11
42.75	12.17	56.75	6.90	70.75	4.44	84.75	3.10
43.00	12.03	57.00	6.84	71.00	4.41	85.00	3.08
43.25	11.89	57.25	6.78	71.25	4.38	85.25	3.06
43.50	11.75	57.50	6.73	71.50	4.35	85.50	3.04
43.75	11.62	57.75	6.67	71.75	4.32	85.75	3.02
44.00	11.49	58.00	6.61	72.00	4.29	86.00	3.01
44.25	11.36	58.25	6.55	72.25	4.26	86.25	2.99
44.50	11.23	58.50	6.50	72.50	4.23	86.50	2.97
44.75	11.10	58.75	6.44	72.75	4.20	86.75	2.95
45.00	10.98	59.00	6.39	73.00	4.17	87.00	2.94
45.25	10.86	59.25	6.33	73.25	4.14	87.25	2.92
45.50	10.74	59.50	6.28	73.50	4.12	87.50	2.90
45.75	10.62	59.75	6.23	73.75	4.09	87.75	2.89
46.00	10.51	60.00	6.18	74.00	4.06	88.00	2.87
46.25	10.40	60.25	6.13	74.25	4.03	88.25	2.86
46.50	10.28	60.50	6.08	74.50	4.01	88.50	2.84
46.75	10.17	60.75	6.03	74.75	3.98	88.75	2.82
47.00	10.07	61.00	5.98	75.00	3.95	89.00	2.81
47.25	9.96	61.25	5.93	75.25	3.93	89.25	2.79
47.50	9.86	61.50	5.88	75.50	3.90	89.50	2.78
47.75	9.75	61.75	5.83	75.75	3.88	89.75	2.76
48.00	9.65	62.00	5.78	76.00	3.85	90.00	2.75
48.25	9.55	62.25	5.74	76.25	3.82	90.25	2.73
48.50	9.45	62.50	5.69	76.50	3.80	90.50	2.72
48.75	9.36	62.75	5.65	76.75	3.78	90.75	2.70
49.00	9.26	63.00	5.60	77.00	3.75	91.00	2.69
49.25	9.17	63.25	5.56	77.25	3.73	91.25	2.67
49.50	9.08	63.50	5.51	77.50	3.70	91.50	2.66
49.75	8.98	63.75	5.47	77.75	3.68	91.75	2.64
50.00	8.89	64.00	5.43	78.00	3.66	92.00	2.63
50.25	8.81	64.25	5.39	78.25	3.63	92.25	2.61
50.50	8.72	64.50	5.35	78.50	3.61	92.50	2.60
50.75	8.63	64.75	5.30	78.75	3.59	92.75	2.59
51.00	8.55	65.00	5.26	79.00	3.56	93.00	2.57
51.25	8.47	65.25	5.22	79.25	3.54	93.25	2.56
51.50	8.38	65.50	5.18	79.50	3.52	93.50	2.54
51.75	8.30	65.75	5.14	79.75	3.50	93.75	2.53
52.00	8.22	66.00	5.11	80.00	3.47	94.00	2.52
52.25	8.15	66.25	5.07	80.25	3.45	94.25	2.50
52.50	8.07	66.50	5.03	80.50	3.43	94.50	2.49
52.75	7.99	66.75	4.99	80.75	3.41	94.75	2.48
53.00	7.92	67.00	4.95	81.00	3.39	95.00	2.46
53.25	7.84	67.25	4.92	81.25	3.37	95.25	2.45
53.50	7.77	67.50	4.88	81.50	3.35	95.50	2.44
53.75	7.70	67.75	4.84	81.75	3.33	95.75	2.43
54.00	7.63	68.00	4.81	82.00	3.31	96.00	2.41

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 50% % Reflection 1000%

Distance where limits are exceeded	
FCC ft. 6.65	79.7 Inches
BioInitiative ft. 526.00	6312.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	222378.96	10.25	264.42	20.25	67.78	30.25	30.38
0.50	88951.58	10.50	251.99	20.50	66.14	30.50	29.88
0.75	44475.79	10.75	240.41	20.75	64.55	30.75	29.40
1.00	26162.23	11.00	229.61	21.00	63.02	31.00	28.92
1.25	17106.07	11.25	219.53	21.25	61.55	31.25	28.46
1.50	12020.48	11.50	210.09	21.50	60.13	31.50	28.01
1.75	8895.16	11.75	201.25	21.75	58.75	31.75	27.57
2.00	6842.43	12.00	192.95	22.00	57.43	32.00	27.14
2.25	5423.88	12.25	185.16	22.25	56.14	32.25	26.73
2.50	4403.54	12.50	177.83	22.50	54.90	32.50	26.32
2.75	3645.56	12.75	170.93	22.75	53.70	32.75	25.92
3.00	3067.30	13.00	164.42	23.00	52.54	33.00	25.52
3.25	2616.22	13.25	158.28	23.25	51.42	33.25	25.14
3.50	2257.65	13.50	152.47	23.50	50.33	33.50	24.77
3.75	1967.96	13.75	146.98	23.75	49.28	33.75	24.40
4.00	1730.58	14.00	141.78	24.00	48.25	34.00	24.04
4.25	1533.65	14.25	136.85	24.25	47.26	34.25	23.70
4.50	1368.49	14.50	132.17	24.50	46.30	34.50	23.35
4.75	1228.61	14.75	127.73	24.75	45.37	34.75	23.02
5.00	1109.12	15.00	123.51	25.00	44.47	35.00	22.69
5.25	1006.24	15.25	119.49	25.25	43.60	35.25	22.37
5.50	917.03	15.50	115.67	25.50	42.74	35.50	22.06
5.75	839.17	15.75	112.03	25.75	41.92	35.75	21.75
6.00	770.81	16.00	108.56	26.00	41.12	36.00	21.45
6.25	710.48	16.25	105.24	26.25	40.34	36.25	21.15
6.50	656.95	16.50	102.08	26.50	39.58	36.50	20.86
6.75	609.26	16.75	99.06	26.75	38.84	36.75	20.58
7.00	566.57	17.00	96.16	27.00	38.13	37.00	20.30
7.25	528.22	17.25	93.40	27.25	37.43	37.25	20.03
7.50	493.63	17.50	90.75	27.50	36.75	37.50	19.77
7.75	462.33	17.75	88.21	27.75	36.09	37.75	19.51
8.00	433.91	18.00	85.78	28.00	35.45	38.00	19.25
8.25	408.03	18.25	83.44	28.25	34.83	38.25	19.00
8.50	384.41	18.50	81.20	28.50	34.22	38.50	18.75
8.75	362.77	18.75	79.05	28.75	33.63	38.75	18.51
9.00	342.91	19.00	76.99	29.00	33.05	39.00	18.27
9.25	324.64	19.25	75.00	29.25	32.49	39.25	18.04
9.50	307.79	19.50	73.09	29.50	31.94	39.50	17.82
9.75	292.22	19.75	71.25	29.75	31.41	39.75	17.59
10.00	277.80	20.00	69.48	30.00	30.88	40.00	17.37

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 50% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 6.65 79.74 Inches
 BioInitiative ft. 526.00 6312.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	17.16	54.25	9.44	68.25	5.97	82.25	4.11
40.50	16.95	54.50	9.36	68.50	5.92	82.50	4.08
40.75	16.74	54.75	9.27	68.75	5.88	82.75	4.06
41.00	16.54	55.00	9.19	69.00	5.84	83.00	4.04
41.25	16.34	55.25	9.11	69.25	5.80	83.25	4.01
41.50	16.14	55.50	9.02	69.50	5.75	83.50	3.99
41.75	15.95	55.75	8.94	69.75	5.71	83.75	3.96
42.00	15.76	56.00	8.86	70.00	5.67	84.00	3.94
42.25	15.57	56.25	8.79	70.25	5.63	84.25	3.92
42.50	15.39	56.50	8.71	70.50	5.59	84.50	3.89
42.75	15.21	56.75	8.63	70.75	5.55	84.75	3.87
43.00	15.03	57.00	8.56	71.00	5.51	85.00	3.85
43.25	14.86	57.25	8.48	71.25	5.48	85.25	3.82
43.50	14.69	57.50	8.41	71.50	5.44	85.50	3.80
43.75	14.52	57.75	8.33	71.75	5.40	85.75	3.78
44.00	14.36	58.00	8.26	72.00	5.36	86.00	3.76
44.25	14.20	58.25	8.19	72.25	5.33	86.25	3.74
44.50	14.04	58.50	8.12	72.50	5.29	86.50	3.72
44.75	13.88	58.75	8.05	72.75	5.25	86.75	3.69
45.00	13.73	59.00	7.99	73.00	5.22	87.00	3.67
45.25	13.58	59.25	7.92	73.25	5.18	87.25	3.65
45.50	13.43	59.50	7.85	73.50	5.15	87.50	3.63
45.75	13.28	59.75	7.79	73.75	5.11	87.75	3.61
46.00	13.14	60.00	7.72	74.00	5.08	88.00	3.59
46.25	12.99	60.25	7.66	74.25	5.04	88.25	3.57
46.50	12.86	60.50	7.59	74.50	5.01	88.50	3.55
46.75	12.72	60.75	7.53	74.75	4.97	88.75	3.53
47.00	12.58	61.00	7.47	75.00	4.94	89.00	3.51
47.25	12.45	61.25	7.41	75.25	4.91	89.25	3.49
47.50	12.32	61.50	7.35	75.50	4.88	89.50	3.47
47.75	12.19	61.75	7.29	75.75	4.84	89.75	3.45
48.00	12.06	62.00	7.23	76.00	4.81	90.00	3.43
48.25	11.94	62.25	7.17	76.25	4.78	90.25	3.41
48.50	11.82	62.50	7.12	76.50	4.75	90.50	3.39
48.75	11.70	62.75	7.06	76.75	4.72	90.75	3.38
49.00	11.58	63.00	7.00	77.00	4.69	91.00	3.36
49.25	11.46	63.25	6.95	77.25	4.66	91.25	3.34
49.50	11.34	63.50	6.89	77.50	4.63	91.50	3.32
49.75	11.23	63.75	6.84	77.75	4.60	91.75	3.30
50.00	11.12	64.00	6.79	78.00	4.57	92.00	3.28
50.25	11.01	64.25	6.73	78.25	4.54	92.25	3.27
50.50	10.90	64.50	6.68	78.50	4.51	92.50	3.25
50.75	10.79	64.75	6.63	78.75	4.48	92.75	3.23
51.00	10.69	65.00	6.58	79.00	4.45	93.00	3.21
51.25	10.58	65.25	6.53	79.25	4.43	93.25	3.20
51.50	10.48	65.50	6.48	79.50	4.40	93.50	3.18
51.75	10.38	65.75	6.43	79.75	4.37	93.75	3.16
52.00	10.28	66.00	6.38	80.00	4.34	94.00	3.15
52.25	10.18	66.25	6.33	80.25	4.32	94.25	3.13
52.50	10.08	66.50	6.29	80.50	4.29	94.50	3.11
52.75	9.99	66.75	6.24	80.75	4.26	94.75	3.10
53.00	9.90	67.00	6.19	81.00	4.24	95.00	3.08
53.25	9.80	67.25	6.15	81.25	4.21	95.25	3.06
53.50	9.71	67.50	6.10	81.50	4.18	95.50	3.05
53.75	9.62	67.75	6.06	81.75	4.16	95.75	3.03
54.00	9.53	68.00	6.01	82.00	4.13	96.00	3.02

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 60% % Reflection 1000%

Distance where limits are exceeded			
FCC ft.		87.4 Inches	
BioInitiative ft.		6924.0 Inches	
7.28			
577.00			

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	266854.75	10.25	317.31	20.25	81.33	30.25	36.45
0.50	106741.90	10.50	302.38	20.50	79.36	30.50	35.86
0.75	53370.95	10.75	288.49	20.75	77.46	30.75	35.27
1.00	31394.68	11.00	275.53	21.00	75.63	31.00	34.71
1.25	20527.29	11.25	263.43	21.25	73.86	31.25	34.16
1.50	14424.58	11.50	252.11	21.50	72.15	31.50	33.62
1.75	10674.19	11.75	241.50	21.75	70.50	31.75	33.09
2.00	8210.92	12.00	231.54	22.00	68.91	32.00	32.57
2.25	6508.65	12.25	222.19	22.25	67.37	32.25	32.07
2.50	5284.25	12.50	213.40	22.50	65.88	32.50	31.58
2.75	4374.67	12.75	205.12	22.75	64.44	32.75	31.10
3.00	3680.76	13.00	197.30	23.00	63.05	33.00	30.63
3.25	3139.47	13.25	189.93	23.25	61.70	33.25	30.17
3.50	2709.19	13.50	182.97	23.50	60.39	33.50	29.72
3.75	2361.55	13.75	176.37	23.75	59.13	33.75	29.28
4.00	2076.69	14.00	170.13	24.00	57.90	34.00	28.85
4.25	1840.38	14.25	164.22	24.25	56.72	34.25	28.43
4.50	1642.18	14.50	158.61	24.50	55.57	34.50	28.02
4.75	1474.34	14.75	153.28	24.75	54.45	34.75	27.62
5.00	1330.95	15.00	148.21	25.00	53.37	35.00	27.23
5.25	1207.49	15.25	143.39	25.25	52.31	35.25	26.84
5.50	1100.43	15.50	138.81	25.50	51.29	35.50	26.47
5.75	1007.00	15.75	134.44	25.75	50.30	35.75	26.10
6.00	924.97	16.00	130.27	26.00	49.34	36.00	25.74
6.25	852.57	16.25	126.29	26.25	48.40	36.25	25.38
6.50	788.34	16.50	122.49	26.50	47.50	36.50	25.04
6.75	731.11	16.75	118.87	26.75	46.61	36.75	24.70
7.00	679.88	17.00	115.40	27.00	45.75	37.00	24.36
7.25	633.86	17.25	112.08	27.25	44.92	37.25	24.04
7.50	592.35	17.50	108.90	27.50	44.10	37.50	23.72
7.75	554.79	17.75	105.85	27.75	43.31	37.75	23.41
8.00	520.69	18.00	102.93	28.00	42.54	38.00	23.10
8.25	489.64	18.25	100.13	28.25	41.79	38.25	22.80
8.50	461.29	18.50	97.45	28.50	41.06	38.50	22.50
8.75	435.33	18.75	94.86	28.75	40.35	38.75	22.21
9.00	411.50	19.00	92.39	29.00	39.66	39.00	21.93
9.25	389.57	19.25	90.00	29.25	38.99	39.25	21.65
9.50	369.35	19.50	87.71	29.50	38.33	39.50	21.38
9.75	350.66	19.75	85.50	29.75	37.69	39.75	21.11
10.00	333.36	20.00	83.38	30.00	37.06	40.00	20.85

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 60% % Reflection 1000%

Distance where limits are exceeded
FCC ft. 7.28 87.36 Inches
BioInitiative ft. 577.00 6924.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	20.59	54.25	11.33	68.25	7.16	82.25	4.93
40.50	20.34	54.50	11.23	68.50	7.11	82.50	4.90
40.75	20.09	54.75	11.13	68.75	7.06	82.75	4.87
41.00	19.84	55.00	11.03	69.00	7.01	83.00	4.84
41.25	19.60	55.25	10.93	69.25	6.96	83.25	4.81
41.50	19.37	55.50	10.83	69.50	6.91	83.50	4.78
41.75	19.14	55.75	10.73	69.75	6.86	83.75	4.76
42.00	18.91	56.00	10.64	70.00	6.81	84.00	4.73
42.25	18.69	56.25	10.54	70.25	6.76	84.25	4.70
42.50	18.47	56.50	10.45	70.50	6.71	84.50	4.67
42.75	18.25	56.75	10.36	70.75	6.66	84.75	4.64
43.00	18.04	57.00	10.27	71.00	6.62	85.00	4.62
43.25	17.83	57.25	10.18	71.25	6.57	85.25	4.59
43.50	17.63	57.50	10.09	71.50	6.52	85.50	4.56
43.75	17.43	57.75	10.00	71.75	6.48	85.75	4.54
44.00	17.23	58.00	9.92	72.00	6.43	86.00	4.51
44.25	17.04	58.25	9.83	72.25	6.39	86.25	4.48
44.50	16.84	58.50	9.75	72.50	6.35	86.50	4.46
44.75	16.66	58.75	9.66	72.75	6.30	86.75	4.43
45.00	16.47	59.00	9.58	73.00	6.26	87.00	4.41
45.25	16.29	59.25	9.50	73.25	6.22	87.25	4.38
45.50	16.11	59.50	9.42	73.50	6.17	87.50	4.36
45.75	15.94	59.75	9.34	73.75	6.13	87.75	4.33
46.00	15.76	60.00	9.27	74.00	6.09	88.00	4.31
46.25	15.59	60.25	9.19	74.25	6.05	88.25	4.28
46.50	15.43	60.50	9.11	74.50	6.01	88.50	4.26
46.75	15.26	60.75	9.04	74.75	5.97	88.75	4.23
47.00	15.10	61.00	8.96	75.00	5.93	89.00	4.21
47.25	14.94	61.25	8.89	75.25	5.89	89.25	4.19
47.50	14.78	61.50	8.82	75.50	5.85	89.50	4.16
47.75	14.63	61.75	8.75	75.75	5.81	89.75	4.14
48.00	14.48	62.00	8.68	76.00	5.78	90.00	4.12
48.25	14.33	62.25	8.61	76.25	5.74	90.25	4.10
48.50	14.18	62.50	8.54	76.50	5.70	90.50	4.07
48.75	14.04	62.75	8.47	76.75	5.66	90.75	4.05
49.00	13.89	63.00	8.40	77.00	5.63	91.00	4.03
49.25	13.75	63.25	8.34	77.25	5.59	91.25	4.01
49.50	13.61	63.50	8.27	77.50	5.55	91.50	3.98
49.75	13.48	63.75	8.21	77.75	5.52	91.75	3.96
50.00	13.34	64.00	8.14	78.00	5.48	92.00	3.94
50.25	13.21	64.25	8.08	78.25	5.45	92.25	3.92
50.50	13.08	64.50	8.02	78.50	5.41	92.50	3.90
50.75	12.95	64.75	7.96	78.75	5.38	92.75	3.88
51.00	12.82	65.00	7.89	79.00	5.34	93.00	3.86
51.25	12.70	65.25	7.83	79.25	5.31	93.25	3.84
51.50	12.58	65.50	7.77	79.50	5.28	93.50	3.82
51.75	12.46	65.75	7.72	79.75	5.24	93.75	3.80
52.00	12.34	66.00	7.66	80.00	5.21	94.00	3.78
52.25	12.22	66.25	7.60	80.25	5.18	94.25	3.76
52.50	12.10	66.50	7.54	80.50	5.15	94.50	3.74
52.75	11.99	66.75	7.49	80.75	5.12	94.75	3.72
53.00	11.87	67.00	7.43	81.00	5.08	95.00	3.70
53.25	11.76	67.25	7.38	81.25	5.05	95.25	3.68
53.50	11.65	67.50	7.32	81.50	5.02	95.50	3.66
53.75	11.55	67.75	7.27	81.75	4.99	95.75	3.64
54.00	11.44	68.00	7.21	82.00	4.96	96.00	3.62

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 70% % Reflection 1000%

Distance where limits are exceeded			
FCC ft.		94.4 Inches	
BioInitiative ft.	625.00	7500.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	311330.54	10.25	370.19	20.25	94.89	30.25	42.53
0.50	124532.22	10.50	352.78	20.50	92.59	30.50	41.83
0.75	62266.11	10.75	336.57	20.75	90.37	30.75	41.15
1.00	36627.12	11.00	321.46	21.00	88.23	31.00	40.49
1.25	23948.50	11.25	307.34	21.25	86.17	31.25	39.85
1.50	16828.68	11.50	294.12	21.50	84.18	31.50	39.22
1.75	12453.22	11.75	281.75	21.75	82.25	31.75	38.60
2.00	9579.40	12.00	270.13	22.00	80.40	32.00	38.00
2.25	7593.43	12.25	259.23	22.25	78.60	32.25	37.42
2.50	6164.96	12.50	248.96	22.50	76.86	32.50	36.84
2.75	5103.78	12.75	239.30	22.75	75.18	32.75	36.28
3.00	4294.21	13.00	230.19	23.00	73.56	33.00	35.73
3.25	3662.71	13.25	221.59	23.25	71.98	33.25	35.20
3.50	3160.72	13.50	213.46	23.50	70.46	33.50	34.68
3.75	2755.14	13.75	205.77	23.75	68.99	33.75	34.16
4.00	2422.81	14.00	198.49	24.00	67.56	34.00	33.66
4.25	2147.11	14.25	191.59	24.25	66.17	34.25	33.17
4.50	1915.88	14.50	185.04	24.50	64.83	34.50	32.69
4.75	1720.06	14.75	178.82	24.75	63.52	34.75	32.23
5.00	1552.77	15.00	172.91	25.00	62.26	35.00	31.77
5.25	1408.74	15.25	167.29	25.25	61.03	35.25	31.32
5.50	1283.84	15.50	161.94	25.50	59.84	35.50	30.88
5.75	1174.83	15.75	156.84	25.75	58.69	35.75	30.45
6.00	1079.14	16.00	151.98	26.00	57.56	36.00	30.03
6.25	994.67	16.25	147.34	26.25	56.47	36.25	29.61
6.50	919.74	16.50	142.91	26.50	55.41	36.50	29.21
6.75	852.96	16.75	138.68	26.75	54.38	36.75	28.81
7.00	793.20	17.00	134.63	27.00	53.38	37.00	28.43
7.25	739.50	17.25	130.76	27.25	52.40	37.25	28.05
7.50	691.08	17.50	127.05	27.50	51.46	37.50	27.67
7.75	647.26	17.75	123.49	27.75	50.53	37.75	27.31
8.00	607.47	18.00	120.09	28.00	49.63	38.00	26.95
8.25	571.25	18.25	116.82	28.25	48.76	38.25	26.60
8.50	538.17	18.50	113.69	28.50	47.91	38.50	26.25
8.75	507.88	18.75	110.68	28.75	47.08	38.75	25.92
9.00	480.08	19.00	107.78	29.00	46.27	39.00	25.58
9.25	454.50	19.25	105.00	29.25	45.48	39.25	25.26
9.50	430.91	19.50	102.33	29.50	44.72	39.50	24.94
9.75	409.11	19.75	99.75	29.75	43.97	39.75	24.63
10.00	388.92	20.00	97.28	30.00	43.24	40.00	24.32

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 70% % Reflection 1000%

Distance where limits are exceeded
FCC ft. 7.86 94.37 Inches
BioInitiative ft. 625.00 7500.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	24.02	54.25	13.22	68.25	8.35	82.25	5.75
40.50	23.72	54.50	13.10	68.50	8.29	82.50	5.72
40.75	23.43	54.75	12.98	68.75	8.23	82.75	5.68
41.00	23.15	55.00	12.86	69.00	8.17	83.00	5.65
41.25	22.87	55.25	12.75	69.25	8.11	83.25	5.62
41.50	22.60	55.50	12.63	69.50	8.06	83.50	5.58
41.75	22.33	55.75	12.52	69.75	8.00	83.75	5.55
42.00	22.06	56.00	12.41	70.00	7.94	84.00	5.52
42.25	21.80	56.25	12.30	70.25	7.89	84.25	5.48
42.50	21.54	56.50	12.19	70.50	7.83	84.50	5.45
42.75	21.29	56.75	12.08	70.75	7.77	84.75	5.42
43.00	21.05	57.00	11.98	71.00	7.72	85.00	5.39
43.25	20.80	57.25	11.87	71.25	7.67	85.25	5.35
43.50	20.57	57.50	11.77	71.50	7.61	85.50	5.32
43.75	20.33	57.75	11.67	71.75	7.56	85.75	5.29
44.00	20.10	58.00	11.57	72.00	7.51	86.00	5.26
44.25	19.87	58.25	11.47	72.25	7.46	86.25	5.23
44.50	19.65	58.50	11.37	72.50	7.40	86.50	5.20
44.75	19.43	58.75	11.27	72.75	7.35	86.75	5.17
45.00	19.22	59.00	11.18	73.00	7.30	87.00	5.14
45.25	19.01	59.25	11.09	73.25	7.25	87.25	5.11
45.50	18.80	59.50	10.99	73.50	7.20	87.50	5.08
45.75	18.59	59.75	10.90	73.75	7.15	87.75	5.05
46.00	18.39	60.00	10.81	74.00	7.11	88.00	5.03
46.25	18.19	60.25	10.72	74.25	7.06	88.25	5.00
46.50	18.00	60.50	10.63	74.50	7.01	88.50	4.97
46.75	17.81	60.75	10.54	74.75	6.96	88.75	4.94
47.00	17.62	61.00	10.46	75.00	6.92	89.00	4.91
47.25	17.43	61.25	10.37	75.25	6.87	89.25	4.89
47.50	17.25	61.50	10.29	75.50	6.83	89.50	4.86
47.75	17.07	61.75	10.21	75.75	6.78	89.75	4.83
48.00	16.89	62.00	10.12	76.00	6.74	90.00	4.80
48.25	16.72	62.25	10.04	76.25	6.69	90.25	4.78
48.50	16.54	62.50	9.96	76.50	6.65	90.50	4.75
48.75	16.37	62.75	9.88	76.75	6.61	90.75	4.73
49.00	16.21	63.00	9.80	77.00	6.56	91.00	4.70
49.25	16.04	63.25	9.73	77.25	6.52	91.25	4.67
49.50	15.88	63.50	9.65	77.50	6.48	91.50	4.65
49.75	15.72	63.75	9.58	77.75	6.44	91.75	4.62
50.00	15.57	64.00	9.50	78.00	6.40	92.00	4.60
50.25	15.41	64.25	9.43	78.25	6.36	92.25	4.57
50.50	15.26	64.50	9.35	78.50	6.32	92.50	4.55
50.75	15.11	64.75	9.28	78.75	6.28	92.75	4.52
51.00	14.96	65.00	9.21	79.00	6.24	93.00	4.50
51.25	14.82	65.25	9.14	79.25	6.20	93.25	4.48
51.50	14.67	65.50	9.07	79.50	6.16	93.50	4.45
51.75	14.53	65.75	9.00	79.75	6.12	93.75	4.43
52.00	14.39	66.00	8.93	80.00	6.08	94.00	4.40
52.25	14.25	66.25	8.87	80.25	6.04	94.25	4.38
52.50	14.12	66.50	8.80	80.50	6.01	94.50	4.36
52.75	13.99	66.75	8.73	80.75	5.97	94.75	4.33
53.00	13.85	67.00	8.67	81.00	5.93	95.00	4.31
53.25	13.72	67.25	8.60	81.25	5.89	95.25	4.29
53.50	13.60	67.50	8.54	81.50	5.86	95.50	4.27
53.75	13.47	67.75	8.48	81.75	5.82	95.75	4.24
54.00	13.35	68.00	8.42	82.00	5.79	96.00	4.22

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 80% % Reflection 1000%

Distance where limits are exceeded	
FCC ft.	8.41 100.9 Inches
BioInitiative ft.	666.00 7992.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	355806.33	10.25	423.08	20.25	108.44	30.25	48.60
0.50	142322.53	10.50	403.18	20.50	105.82	30.50	47.81
0.75	71161.27	10.75	384.66	20.75	103.28	30.75	47.03
1.00	41859.57	11.00	367.38	21.00	100.84	31.00	46.28
1.25	27369.72	11.25	351.24	21.25	98.48	31.25	45.54
1.50	19232.77	11.50	336.14	21.50	96.20	31.50	44.82
1.75	14232.25	11.75	322.00	21.75	94.00	31.75	44.12
2.00	10947.89	12.00	308.73	22.00	91.88	32.00	43.43
2.25	8678.20	12.25	296.26	22.25	89.83	32.25	42.76
2.50	7045.67	12.50	284.53	22.50	87.84	32.50	42.10
2.75	5832.89	12.75	273.49	22.75	85.92	32.75	41.46
3.00	4907.67	13.00	263.07	23.00	84.07	33.00	40.84
3.25	4185.96	13.25	253.24	23.25	82.27	33.25	40.23
3.50	3612.25	13.50	243.95	23.50	80.53	33.50	39.63
3.75	3148.73	13.75	235.17	23.75	78.84	33.75	39.04
4.00	2768.92	14.00	226.84	24.00	77.21	34.00	38.47
4.25	2453.84	14.25	218.96	24.25	75.62	34.25	37.91
4.50	2189.58	14.50	211.47	24.50	74.09	34.50	37.36
4.75	1965.78	14.75	204.37	24.75	72.60	34.75	36.83
5.00	1774.60	15.00	197.62	25.00	71.15	35.00	36.30
5.25	1609.98	15.25	191.19	25.25	69.75	35.25	35.79
5.50	1467.24	15.50	185.07	25.50	68.39	35.50	35.29
5.75	1342.67	15.75	179.25	25.75	67.07	35.75	34.80
6.00	1233.30	16.00	173.69	26.00	65.79	36.00	34.32
6.25	1136.76	16.25	168.39	26.25	64.54	36.25	33.84
6.50	1051.13	16.50	163.33	26.50	63.33	36.50	33.38
6.75	974.81	16.75	158.49	26.75	62.15	36.75	32.93
7.00	906.51	17.00	153.86	27.00	61.00	37.00	32.49
7.25	845.15	17.25	149.44	27.25	59.89	37.25	32.05
7.50	789.80	17.50	145.20	27.50	58.81	37.50	31.63
7.75	739.72	17.75	141.14	27.75	57.75	37.75	31.21
8.00	694.26	18.00	137.24	28.00	56.72	38.00	30.80
8.25	652.86	18.25	133.51	28.25	55.73	38.25	30.40
8.50	615.05	18.50	129.93	28.50	54.75	38.50	30.00
8.75	580.43	18.75	126.49	28.75	53.80	38.75	29.62
9.00	548.66	19.00	123.18	29.00	52.88	39.00	29.24
9.25	519.43	19.25	120.00	29.25	51.98	39.25	28.87
9.50	492.47	19.50	116.95	29.50	51.10	39.50	28.50
9.75	467.55	19.75	114.00	29.75	50.25	39.75	28.15
10.00	444.48	20.00	111.17	30.00	49.41	40.00	27.80

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 80% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 8.41 100.89 Inches
 BioInitiative ft. 666.00 7992.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	27.45	54.25	15.11	68.25	9.55	82.25	6.57
40.50	27.11	54.50	14.97	68.50	9.48	82.50	6.53
40.75	26.78	54.75	14.84	68.75	9.41	82.75	6.50
41.00	26.46	55.00	14.70	69.00	9.34	83.00	6.46
41.25	26.14	55.25	14.57	69.25	9.27	83.25	6.42
41.50	25.82	55.50	14.44	69.50	9.21	83.50	6.38
41.75	25.51	55.75	14.31	69.75	9.14	83.75	6.34
42.00	25.21	56.00	14.18	70.00	9.08	84.00	6.30
42.25	24.91	56.25	14.06	70.25	9.01	84.25	6.27
42.50	24.62	56.50	13.93	70.50	8.95	84.50	6.23
42.75	24.34	56.75	13.81	70.75	8.89	84.75	6.19
43.00	24.05	57.00	13.69	71.00	8.82	85.00	6.16
43.25	23.78	57.25	13.57	71.25	8.76	85.25	6.12
43.50	23.50	57.50	13.45	71.50	8.70	85.50	6.08
43.75	23.24	57.75	13.34	71.75	8.64	85.75	6.05
44.00	22.97	58.00	13.22	72.00	8.58	86.00	6.01
44.25	22.71	58.25	13.11	72.25	8.52	86.25	5.98
44.50	22.46	58.50	13.00	72.50	8.46	86.50	5.94
44.75	22.21	58.75	12.89	72.75	8.40	86.75	5.91
45.00	21.96	59.00	12.78	73.00	8.35	87.00	5.88
45.25	21.72	59.25	12.67	73.25	8.29	87.25	5.84
45.50	21.48	59.50	12.56	73.50	8.23	87.50	5.81
45.75	21.25	59.75	12.46	73.75	8.18	87.75	5.78
46.00	21.02	60.00	12.35	74.00	8.12	88.00	5.74
46.25	20.79	60.25	12.25	74.25	8.07	88.25	5.71
46.50	20.57	60.50	12.15	74.50	8.01	88.50	5.68
46.75	20.35	60.75	12.05	74.75	7.96	88.75	5.65
47.00	20.13	61.00	11.95	75.00	7.91	89.00	5.61
47.25	19.92	61.25	11.86	75.25	7.85	89.25	5.58
47.50	19.71	61.50	11.76	75.50	7.80	89.50	5.55
47.75	19.51	61.75	11.66	75.75	7.75	89.75	5.52
48.00	19.30	62.00	11.57	76.00	7.70	90.00	5.49
48.25	19.10	62.25	11.48	76.25	7.65	90.25	5.46
48.50	18.91	62.50	11.39	76.50	7.60	90.50	5.43
48.75	18.71	62.75	11.30	76.75	7.55	90.75	5.40
49.00	18.52	63.00	11.21	77.00	7.50	91.00	5.37
49.25	18.34	63.25	11.12	77.25	7.45	91.25	5.34
49.50	18.15	63.50	11.03	77.50	7.40	91.50	5.31
49.75	17.97	63.75	10.94	77.75	7.36	91.75	5.28
50.00	17.79	64.00	10.86	78.00	7.31	92.00	5.25
50.25	17.61	64.25	10.77	78.25	7.26	92.25	5.23
50.50	17.44	64.50	10.69	78.50	7.22	92.50	5.20
50.75	17.27	64.75	10.61	78.75	7.17	92.75	5.17
51.00	17.10	65.00	10.53	79.00	7.13	93.00	5.14
51.25	16.93	65.25	10.45	79.25	7.08	93.25	5.11
51.50	16.77	65.50	10.37	79.50	7.04	93.50	5.09
51.75	16.61	65.75	10.29	79.75	6.99	93.75	5.06
52.00	16.45	66.00	10.21	80.00	6.95	94.00	5.03
52.25	16.29	66.25	10.13	80.25	6.91	94.25	5.01
52.50	16.14	66.50	10.06	80.50	6.86	94.50	4.98
52.75	15.98	66.75	9.98	80.75	6.82	94.75	4.95
53.00	15.83	67.00	9.91	81.00	6.78	95.00	4.93
53.25	15.68	67.25	9.83	81.25	6.74	95.25	4.90
53.50	15.54	67.50	9.76	81.50	6.70	95.50	4.88
53.75	15.39	67.75	9.69	81.75	6.65	95.75	4.85
54.00	15.25	68.00	9.62	82.00	6.61	96.00	4.83

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 90% % Reflection 1000%

Distance where limits are exceeded	
FCC ft.	8.92 107.0 Inches
BioInitiative ft.	707.00 8484.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	400282.12	10.25	475.96	20.25	122.00	30.25	54.68
0.50	160112.85	10.50	453.58	20.50	119.04	30.50	53.78
0.75	80056.42	10.75	432.74	20.75	116.19	30.75	52.91
1.00	47092.01	11.00	413.30	21.00	113.44	31.00	52.06
1.25	30790.93	11.25	395.15	21.25	110.79	31.25	51.23
1.50	21636.87	11.50	378.16	21.50	108.23	31.50	50.42
1.75	16011.28	11.75	362.25	21.75	105.75	31.75	49.63
2.00	12316.37	12.00	347.32	22.00	103.37	32.00	48.86
2.25	9762.98	12.25	333.29	22.25	101.06	32.25	48.11
2.50	7926.38	12.50	320.10	22.50	98.82	32.50	47.37
2.75	6562.00	12.75	307.67	22.75	96.66	32.75	46.65
3.00	5521.13	13.00	295.96	23.00	94.57	33.00	45.94
3.25	4709.20	13.25	284.90	23.25	92.55	33.25	45.26
3.50	4063.78	13.50	274.45	23.50	90.59	33.50	44.58
3.75	3542.32	13.75	264.56	23.75	88.70	33.75	43.92
4.00	3115.04	14.00	255.20	24.00	86.86	34.00	43.28
4.25	2760.57	14.25	246.33	24.25	85.08	34.25	42.65
4.50	2463.27	14.50	237.91	24.50	83.35	34.50	42.04
4.75	2211.50	14.75	229.92	24.75	81.67	34.75	41.43
5.00	1996.42	15.00	222.32	25.00	80.05	35.00	40.84
5.25	1811.23	15.25	215.09	25.25	78.47	35.25	40.27
5.50	1650.65	15.50	208.21	25.50	76.94	35.50	39.70
5.75	1510.50	15.75	201.65	25.75	75.45	35.75	39.15
6.00	1387.46	16.00	195.40	26.00	74.01	36.00	38.61
6.25	1278.86	16.25	189.44	26.25	72.61	36.25	38.07
6.50	1182.52	16.50	183.74	26.50	71.24	36.50	37.56
6.75	1096.66	16.75	178.30	26.75	69.92	36.75	37.05
7.00	1019.83	17.00	173.09	27.00	68.63	37.00	36.55
7.25	950.79	17.25	168.12	27.25	67.38	37.25	36.06
7.50	888.53	17.50	163.35	27.50	66.16	37.50	35.58
7.75	832.19	17.75	158.78	27.75	64.97	37.75	35.11
8.00	781.04	18.00	154.40	28.00	63.82	38.00	34.65
8.25	734.46	18.25	150.20	28.25	62.69	38.25	34.20
8.50	691.93	18.50	146.17	28.50	61.60	38.50	33.75
8.75	652.99	18.75	142.30	28.75	60.53	38.75	33.32
9.00	617.24	19.00	138.58	29.00	59.49	39.00	32.89
9.25	584.35	19.25	135.00	29.25	58.48	39.25	32.48
9.50	554.02	19.50	131.56	29.50	57.49	39.50	32.07
9.75	525.99	19.75	128.25	29.75	56.53	39.75	31.67
10.00	500.04	20.00	125.07	30.00	55.59	40.00	31.27

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections
 $S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$
 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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 90% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 8.92 107.02 Inches
 BioInitiative ft. 707.00 8484.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	30.88	54.25	17.00	68.25	10.74	82.25	7.40
40.50	30.50	54.50	16.85	68.50	10.66	82.50	7.35
40.75	30.13	54.75	16.69	68.75	10.59	82.75	7.31
41.00	29.76	55.00	16.54	69.00	10.51	83.00	7.26
41.25	29.40	55.25	16.39	69.25	10.43	83.25	7.22
41.50	29.05	55.50	16.24	69.50	10.36	83.50	7.18
41.75	28.70	55.75	16.10	69.75	10.28	83.75	7.13
42.00	28.36	56.00	15.95	70.00	10.21	84.00	7.09
42.25	28.03	56.25	15.81	70.25	10.14	84.25	7.05
42.50	27.70	56.50	15.67	70.50	10.07	84.50	7.01
42.75	27.38	56.75	15.54	70.75	10.00	84.75	6.97
43.00	27.06	57.00	15.40	71.00	9.93	85.00	6.93
43.25	26.75	57.25	15.27	71.25	9.86	85.25	6.88
43.50	26.44	57.50	15.13	71.50	9.79	85.50	6.84
43.75	26.14	57.75	15.00	71.75	9.72	85.75	6.80
44.00	25.84	58.00	14.87	72.00	9.65	86.00	6.77
44.25	25.55	58.25	14.75	72.25	9.59	86.25	6.73
44.50	25.27	58.50	14.62	72.50	9.52	86.50	6.69
44.75	24.98	58.75	14.50	72.75	9.45	86.75	6.65
45.00	24.71	59.00	14.37	73.00	9.39	87.00	6.61
45.25	24.44	59.25	14.25	73.25	9.33	87.25	6.57
45.50	24.17	59.50	14.13	73.50	9.26	87.50	6.54
45.75	23.90	59.75	14.01	73.75	9.20	87.75	6.50
46.00	23.65	60.00	13.90	74.00	9.14	88.00	6.46
46.25	23.39	60.25	13.78	74.25	9.08	88.25	6.42
46.50	23.14	60.50	13.67	74.50	9.01	88.50	6.39
46.75	22.89	60.75	13.56	74.75	8.95	88.75	6.35
47.00	22.65	61.00	13.45	75.00	8.90	89.00	6.32
47.25	22.41	61.25	13.34	75.25	8.84	89.25	6.28
47.50	22.18	61.50	13.23	75.50	8.78	89.50	6.25
47.75	21.94	61.75	13.12	75.75	8.72	89.75	6.21
48.00	21.72	62.00	13.02	76.00	8.66	90.00	6.18
48.25	21.49	62.25	12.91	76.25	8.61	90.25	6.14
48.50	21.27	62.50	12.81	76.50	8.55	90.50	6.11
48.75	21.05	62.75	12.71	76.75	8.49	90.75	6.08
49.00	20.84	63.00	12.61	77.00	8.44	91.00	6.04
49.25	20.63	63.25	12.51	77.25	8.38	91.25	6.01
49.50	20.42	63.50	12.41	77.50	8.33	91.50	5.98
49.75	20.22	63.75	12.31	77.75	8.28	91.75	5.94
50.00	20.01	64.00	12.22	78.00	8.22	92.00	5.91
50.25	19.81	64.25	12.12	78.25	8.17	92.25	5.88
50.50	19.62	64.50	12.03	78.50	8.12	92.50	5.85
50.75	19.43	64.75	11.93	78.75	8.07	92.75	5.82
51.00	19.24	65.00	11.84	79.00	8.02	93.00	5.79
51.25	19.05	65.25	11.75	79.25	7.97	93.25	5.75
51.50	18.86	65.50	11.66	79.50	7.92	93.50	5.72
51.75	18.68	65.75	11.57	79.75	7.87	93.75	5.69
52.00	18.50	66.00	11.49	80.00	7.82	94.00	5.66
52.25	18.33	66.25	11.40	80.25	7.77	94.25	5.63
52.50	18.15	66.50	11.31	80.50	7.72	94.50	5.60
52.75	17.98	66.75	11.23	80.75	7.67	94.75	5.57
53.00	17.81	67.00	11.15	81.00	7.63	95.00	5.54
53.25	17.65	67.25	11.06	81.25	7.58	95.25	5.51
53.50	17.48	67.50	10.98	81.50	7.53	95.50	5.49
53.75	17.32	67.75	10.90	81.75	7.49	95.75	5.46
54.00	17.16	68.00	10.82	82.00	7.44	96.00	5.43

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters

Time Avg: 100%

% Reflection 1000%

Distance where limits are exceeded

FCC ft. 9.40 112.8 Inches

BioInitiative ft. 745.00 8940.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	444757.92	10.25	528.84	20.25	135.56	30.25	60.75
0.50	177903.17	10.50	503.97	20.50	132.27	30.50	59.76
0.75	88951.58	10.75	480.82	20.75	129.10	30.75	58.79
1.00	52324.46	11.00	459.22	21.00	126.05	31.00	57.85
1.25	34212.15	11.25	439.05	21.25	123.10	31.25	56.93
1.50	24040.97	11.50	420.18	21.50	120.25	31.50	56.03
1.75	17790.32	11.75	402.50	21.75	117.51	31.75	55.15
2.00	13684.86	12.00	385.91	22.00	114.85	32.00	54.29
2.25	10847.75	12.25	370.32	22.25	112.28	32.25	53.45
2.50	8807.09	12.50	355.66	22.50	109.80	32.50	52.63
2.75	7291.11	12.75	341.86	22.75	107.40	32.75	51.83
3.00	6134.59	13.00	328.84	23.00	105.08	33.00	51.05
3.25	5232.45	13.25	316.55	23.25	102.83	33.25	50.28
3.50	4515.31	13.50	304.94	23.50	100.66	33.50	49.54
3.75	3935.91	13.75	293.96	23.75	98.55	33.75	48.80
4.00	3461.15	14.00	283.56	24.00	96.51	34.00	48.09
4.25	3067.30	14.25	273.70	24.25	94.53	34.25	47.39
4.50	2736.97	14.50	264.34	24.50	92.61	34.50	46.71
4.75	2457.23	14.75	255.46	24.75	90.75	34.75	46.04
5.00	2218.24	15.00	247.02	25.00	88.94	35.00	45.38
5.25	2012.48	15.25	238.99	25.25	87.19	35.25	44.74
5.50	1834.05	15.50	231.34	25.50	85.49	35.50	44.11
5.75	1678.33	15.75	224.06	25.75	83.84	35.75	43.50
6.00	1541.62	16.00	217.11	26.00	82.23	36.00	42.90
6.25	1420.95	16.25	210.49	26.25	80.67	36.25	42.31
6.50	1313.91	16.50	204.16	26.50	79.16	36.50	41.73
6.75	1218.51	16.75	198.11	26.75	77.69	36.75	41.16
7.00	1133.14	17.00	192.33	27.00	76.26	37.00	40.61
7.25	1056.43	17.25	186.79	27.25	74.86	37.25	40.06
7.50	987.25	17.50	181.50	27.50	73.51	37.50	39.53
7.75	924.65	17.75	176.42	27.75	72.19	37.75	39.01
8.00	867.82	18.00	171.56	28.00	70.91	38.00	38.50
8.25	816.07	18.25	166.89	28.25	69.66	38.25	38.00
8.50	768.81	18.50	162.41	28.50	68.44	38.50	37.51
8.75	725.54	18.75	158.11	28.75	67.26	38.75	37.02
9.00	685.83	19.00	153.98	29.00	66.10	39.00	36.55
9.25	649.28	19.25	150.00	29.25	64.98	39.25	36.09
9.50	615.58	19.50	146.18	29.50	63.88	39.50	35.63
9.75	584.44	19.75	142.50	29.75	62.81	39.75	35.18
10.00	555.60	20.00	138.97	30.00	61.77	40.00	34.75

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 – 1000% reflections)

Meters 1 Collector Meter - 7 SMART Meters

Time Avg: 100%

% Reflection 1000%

Distance where limits are exceeded

FCC ft. 9.40

112.81 Inches

BioInitiative ft. 745.00

8940.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	34.32	54.25	18.89	68.25	11.94	82.25	8.22
40.50	33.89	54.50	18.72	68.50	11.85	82.50	8.17
40.75	33.48	54.75	18.55	68.75	11.76	82.75	8.12
41.00	33.07	55.00	18.38	69.00	11.68	83.00	8.07
41.25	32.67	55.25	18.21	69.25	11.59	83.25	8.02
41.50	32.28	55.50	18.05	69.50	11.51	83.50	7.97
41.75	31.89	55.75	17.89	69.75	11.43	83.75	7.93
42.00	31.52	56.00	17.73	70.00	11.35	84.00	7.88
42.25	31.14	56.25	17.57	70.25	11.27	84.25	7.83
42.50	30.78	56.50	17.42	70.50	11.19	84.50	7.79
42.75	30.42	56.75	17.26	70.75	11.11	84.75	7.74
43.00	30.07	57.00	17.11	71.00	11.03	85.00	7.69
43.25	29.72	57.25	16.96	71.25	10.95	85.25	7.65
43.50	29.38	57.50	16.81	71.50	10.87	85.50	7.60
43.75	29.04	57.75	16.67	71.75	10.80	85.75	7.56
44.00	28.72	58.00	16.53	72.00	10.72	86.00	7.52
44.25	28.39	58.25	16.38	72.25	10.65	86.25	7.47
44.50	28.07	58.50	16.24	72.50	10.58	86.50	7.43
44.75	27.76	58.75	16.11	72.75	10.50	86.75	7.39
45.00	27.45	59.00	15.97	73.00	10.43	87.00	7.34
45.25	27.15	59.25	15.84	73.25	10.36	87.25	7.30
45.50	26.85	59.50	15.70	73.50	10.29	87.50	7.26
45.75	26.56	59.75	15.57	73.75	10.22	87.75	7.22
46.00	26.27	60.00	15.44	74.00	10.15	88.00	7.18
46.25	25.99	60.25	15.31	74.25	10.08	88.25	7.14
46.50	25.71	60.50	15.19	74.50	10.02	88.50	7.10
46.75	25.44	60.75	15.06	74.75	9.95	88.75	7.06
47.00	25.17	61.00	14.94	75.00	9.88	89.00	7.02
47.25	24.90	61.25	14.82	75.25	9.82	89.25	6.98
47.50	24.64	61.50	14.70	75.50	9.75	89.50	6.94
47.75	24.38	61.75	14.58	75.75	9.69	89.75	6.90
48.00	24.13	62.00	14.46	76.00	9.63	90.00	6.86
48.25	23.88	62.25	14.35	76.25	9.56	90.25	6.83
48.50	23.63	62.50	14.23	76.50	9.50	90.50	6.79
48.75	23.39	62.75	14.12	76.75	9.44	90.75	6.75
49.00	23.15	63.00	14.01	77.00	9.38	91.00	6.71
49.25	22.92	63.25	13.90	77.25	9.32	91.25	6.68
49.50	22.69	63.50	13.79	77.50	9.26	91.50	6.64
49.75	22.46	63.75	13.68	77.75	9.20	91.75	6.60
50.00	22.24	64.00	13.57	78.00	9.14	92.00	6.57
50.25	22.02	64.25	13.47	78.25	9.08	92.25	6.53
50.50	21.80	64.50	13.36	78.50	9.02	92.50	6.50
50.75	21.58	64.75	13.26	78.75	8.96	92.75	6.46
51.00	21.37	65.00	13.16	79.00	8.91	93.00	6.43
51.25	21.17	65.25	13.06	79.25	8.85	93.25	6.39
51.50	20.96	65.50	12.96	79.50	8.80	93.50	6.36
51.75	20.76	65.75	12.86	79.75	8.74	93.75	6.33
52.00	20.56	66.00	12.76	80.00	8.69	94.00	6.29
52.25	20.36	66.25	12.67	80.25	8.63	94.25	6.26
52.50	20.17	66.50	12.57	80.50	8.58	94.50	6.23
52.75	19.98	66.75	12.48	80.75	8.53	94.75	6.19
53.00	19.79	67.00	12.38	81.00	8.47	95.00	6.16
53.25	19.61	67.25	12.29	81.25	8.42	95.25	6.13
53.50	19.42	67.50	12.20	81.50	8.37	95.50	6.10
53.75	19.24	67.75	12.11	81.75	8.32	95.75	6.06
54.00	19.07	68.00	12.02	82.00	8.27	96.00	6.03