

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.	0.90 10.8 Inches
BioInitiative ft.	74.00 888.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	4370.05	10.25	5.20	20.25	1.33	30.25	0.60
0.50	1748.02	10.50	4.95	20.50	1.30	30.50	0.59
0.75	874.01	10.75	4.72	20.75	1.27	30.75	0.58
1.00	514.12	11.00	4.51	21.00	1.24	31.00	0.57
1.25	336.16	11.25	4.31	21.25	1.21	31.25	0.56
1.50	236.22	11.50	4.13	21.50	1.18	31.50	0.55
1.75	174.80	11.75	3.95	21.75	1.15	31.75	0.54
2.00	134.46	12.00	3.79	22.00	1.13	32.00	0.53
2.25	106.59	12.25	3.64	22.25	1.10	32.25	0.53
2.50	86.54	12.50	3.49	22.50	1.08	32.50	0.52
2.75	71.64	12.75	3.36	22.75	1.06	32.75	0.51
3.00	60.28	13.00	3.23	23.00	1.03	33.00	0.50
3.25	51.41	13.25	3.11	23.25	1.01	33.25	0.49
3.50	44.37	13.50	3.00	23.50	0.99	33.50	0.49
3.75	38.67	13.75	2.89	23.75	0.97	33.75	0.48
4.00	34.01	14.00	2.79	24.00	0.95	34.00	0.47
4.25	30.14	14.25	2.69	24.25	0.93	34.25	0.47
4.50	26.89	14.50	2.60	24.50	0.91	34.50	0.46
4.75	24.14	14.75	2.51	24.75	0.89	34.75	0.45
5.00	21.80	15.00	2.43	25.00	0.87	35.00	0.45
5.25	19.77	15.25	2.35	25.25	0.86	35.25	0.44
5.50	18.02	15.50	2.27	25.50	0.84	35.50	0.43
5.75	16.49	15.75	2.20	25.75	0.82	35.75	0.43
6.00	15.15	16.00	2.13	26.00	0.81	36.00	0.42
6.25	13.96	16.25	2.07	26.25	0.79	36.25	0.42
6.50	12.91	16.50	2.01	26.50	0.78	36.50	0.41
6.75	11.97	16.75	1.95	26.75	0.76	36.75	0.40
7.00	11.13	17.00	1.89	27.00	0.75	37.00	0.40
7.25	10.38	17.25	1.84	27.25	0.74	37.25	0.39
7.50	9.70	17.50	1.78	27.50	0.72	37.50	0.39
7.75	9.09	17.75	1.73	27.75	0.71	37.75	0.38
8.00	8.53	18.00	1.69	28.00	0.70	38.00	0.38
8.25	8.02	18.25	1.64	28.25	0.68	38.25	0.37
8.50	7.55	18.50	1.60	28.50	0.67	38.50	0.37
8.75	7.13	18.75	1.55	28.75	0.66	38.75	0.36
9.00	6.74	19.00	1.51	29.00	0.65	39.00	0.36
9.25	6.38	19.25	1.47	29.25	0.64	39.25	0.35
9.50	6.05	19.50	1.44	29.50	0.63	39.50	0.35
9.75	5.74	19.75	1.40	29.75	0.62	39.75	0.35
10.00	5.46	20.00	1.37	30.00	0.61	40.00	0.34

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: 1% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 0.90 10.81 Inches
 BioInitiative ft. 74.00 888.00 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	0.33	54.50	0.18	68.50	0.12	82.50	0.08
40.75	0.33	54.75	0.18	68.75	0.12	82.75	0.08
41.00	0.32	55.00	0.18	69.00	0.11	83.00	0.08
41.25	0.32	55.25	0.18	69.25	0.11	83.25	0.08
41.50	0.32	55.50	0.18	69.50	0.11	83.50	0.08
41.75	0.31	55.75	0.18	69.75	0.11	83.75	0.08
42.00	0.31	56.00	0.17	70.00	0.11	84.00	0.08
42.25	0.31	56.25	0.17	70.25	0.11	84.25	0.08
42.50	0.30	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	0.29	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	0.07
43.75	0.29	57.75	0.16	71.75	0.11	85.75	0.07
44.00	0.28	58.00	0.16	72.00	0.11	86.00	0.07
44.25	0.28	58.25	0.16	72.25	0.10	86.25	0.07
44.50	0.28	58.50	0.16	72.50	0.10	86.50	0.07
44.75	0.27	58.75	0.16	72.75	0.10	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	0.26	59.50	0.15	73.50	0.10	87.50	0.07
45.75	0.26	59.75	0.15	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	0.25	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	0.24	61.25	0.15	75.25	0.10	89.25	0.07
47.50	0.24	61.50	0.14	75.50	0.10	89.50	0.07
47.75	0.24	61.75	0.14	75.75	0.10	89.75	0.07
48.00	0.24	62.00	0.14	76.00	0.09	90.00	0.07
48.25	0.23	62.25	0.14	76.25	0.09	90.25	0.07
48.50	0.23	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	0.22	63.50	0.14	77.50	0.09	91.50	0.07
49.75	0.22	63.75	0.13	77.75	0.09	91.75	0.06
50.00	0.22	64.00	0.13	78.00	0.09	92.00	0.06
50.25	0.22	64.25	0.13	78.25	0.09	92.25	0.06
50.50	0.21	64.50	0.13	78.50	0.09	92.50	0.06
50.75	0.21	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	0.20	65.75	0.13	79.75	0.09	93.75	0.06
52.00	0.20	66.00	0.13	80.00	0.09	94.00	0.06
52.25	0.20	66.25	0.12	80.25	0.08	94.25	0.06
52.50	0.20	66.50	0.12	80.50	0.08	94.50	0.06
52.75	0.20	66.75	0.12	80.75	0.08	94.75	0.06
53.00	0.19	67.00	0.12	81.00	0.08	95.00	0.06
53.25	0.19	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.	2.95	35.4 Inches	
BioInitiative ft.	234.00	2808.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	43700.47	10.25	51.96	20.25	13.32	30.25	5.97
0.50	17480.19	10.50	49.52	20.50	13.00	30.50	5.87
0.75	8740.09	10.75	47.24	20.75	12.69	30.75	5.78
1.00	5141.23	11.00	45.12	21.00	12.39	31.00	5.68
1.25	3361.57	11.25	43.14	21.25	12.10	31.25	5.59
1.50	2362.19	11.50	41.29	21.50	11.82	31.50	5.50
1.75	1748.02	11.75	39.55	21.75	11.55	31.75	5.42
2.00	1344.63	12.00	37.92	22.00	11.28	32.00	5.33
2.25	1065.87	12.25	36.39	22.25	11.03	32.25	5.25
2.50	865.36	12.50	34.95	22.50	10.79	32.50	5.17
2.75	716.40	12.75	33.59	22.75	10.55	32.75	5.09
3.00	602.77	13.00	32.31	23.00	10.32	33.00	5.02
3.25	514.12	13.25	31.10	23.25	10.10	33.25	4.94
3.50	443.66	13.50	29.96	23.50	9.89	33.50	4.87
3.75	386.73	13.75	28.88	23.75	9.68	33.75	4.80
4.00	340.08	14.00	27.86	24.00	9.48	34.00	4.73
4.25	301.38	14.25	26.89	24.25	9.29	34.25	4.66
4.50	268.93	14.50	25.97	24.50	9.10	34.50	4.59
4.75	241.44	14.75	25.10	24.75	8.92	34.75	4.52
5.00	217.96	15.00	24.27	25.00	8.74	35.00	4.46
5.25	197.74	15.25	23.48	25.25	8.57	35.25	4.40
5.50	180.21	15.50	22.73	25.50	8.40	35.50	4.33
5.75	164.91	15.75	22.02	25.75	8.24	35.75	4.27
6.00	151.47	16.00	21.33	26.00	8.08	36.00	4.21
6.25	139.62	16.25	20.68	26.25	7.93	36.25	4.16
6.50	129.10	16.50	20.06	26.50	7.78	36.50	4.10
6.75	119.73	16.75	19.47	26.75	7.63	36.75	4.04
7.00	111.34	17.00	18.90	27.00	7.49	37.00	3.99
7.25	103.80	17.25	18.35	27.25	7.36	37.25	3.94
7.50	97.00	17.50	17.83	27.50	7.22	37.50	3.88
7.75	90.85	17.75	17.33	27.75	7.09	37.75	3.83
8.00	85.27	18.00	16.86	28.00	6.97	38.00	3.78
8.25	80.18	18.25	16.40	28.25	6.84	38.25	3.73
8.50	75.54	18.50	15.96	28.50	6.72	38.50	3.69
8.75	71.29	18.75	15.54	28.75	6.61	38.75	3.64
9.00	67.39	19.00	15.13	29.00	6.49	39.00	3.59
9.25	63.80	19.25	14.74	29.25	6.38	39.25	3.55
9.50	60.49	19.50	14.36	29.50	6.28	39.50	3.50
9.75	57.43	19.75	14.00	29.75	6.17	39.75	3.46
10.00	54.59	20.00	13.65	30.00	6.07	40.00	3.41

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
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- 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: 10% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 2.95 35.36 Inches
 BioInitiative ft. 234.00 2808.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	3.37	54.25	1.86	68.25	1.17	82.25	0.81
40.50	3.33	54.50	1.84	68.50	1.16	82.50	0.80
40.75	3.29	54.75	1.82	68.75	1.16	82.75	0.80
41.00	3.25	55.00	1.81	69.00	1.15	83.00	0.79
41.25	3.21	55.25	1.79	69.25	1.14	83.25	0.79
41.50	3.17	55.50	1.77	69.50	1.13	83.50	0.78
41.75	3.13	55.75	1.76	69.75	1.12	83.75	0.78
42.00	3.10	56.00	1.74	70.00	1.11	84.00	0.77
42.25	3.06	56.25	1.73	70.25	1.11	84.25	0.77
42.50	3.02	56.50	1.71	70.50	1.10	84.50	0.77
42.75	2.99	56.75	1.70	70.75	1.09	84.75	0.76
43.00	2.95	57.00	1.68	71.00	1.08	85.00	0.76
43.25	2.92	57.25	1.67	71.25	1.08	85.25	0.75
43.50	2.89	57.50	1.65	71.50	1.07	85.50	0.75
43.75	2.85	57.75	1.64	71.75	1.06	85.75	0.74
44.00	2.82	58.00	1.62	72.00	1.05	86.00	0.74
44.25	2.79	58.25	1.61	72.25	1.05	86.25	0.73
44.50	2.76	58.50	1.60	72.50	1.04	86.50	0.73
44.75	2.73	58.75	1.58	72.75	1.03	86.75	0.73
45.00	2.70	59.00	1.57	73.00	1.03	87.00	0.72
45.25	2.67	59.25	1.56	73.25	1.02	87.25	0.72
45.50	2.64	59.50	1.54	73.50	1.01	87.50	0.71
45.75	2.61	59.75	1.53	73.75	1.00	87.75	0.71
46.00	2.58	60.00	1.52	74.00	1.00	88.00	0.71
46.25	2.55	60.25	1.50	74.25	0.99	88.25	0.70
46.50	2.53	60.50	1.49	74.50	0.98	88.50	0.70
46.75	2.50	60.75	1.48	74.75	0.98	88.75	0.69
47.00	2.47	61.00	1.47	75.00	0.97	89.00	0.69
47.25	2.45	61.25	1.46	75.25	0.96	89.25	0.69
47.50	2.42	61.50	1.44	75.50	0.96	89.50	0.68
47.75	2.40	61.75	1.43	75.75	0.95	89.75	0.68
48.00	2.37	62.00	1.42	76.00	0.95	90.00	0.67
48.25	2.35	62.25	1.41	76.25	0.94	90.25	0.67
48.50	2.32	62.50	1.40	76.50	0.93	90.50	0.67
48.75	2.30	62.75	1.39	76.75	0.93	90.75	0.66
49.00	2.28	63.00	1.38	77.00	0.92	91.00	0.66
49.25	2.25	63.25	1.37	77.25	0.92	91.25	0.66
49.50	2.23	63.50	1.35	77.50	0.91	91.50	0.65
49.75	2.21	63.75	1.34	77.75	0.90	91.75	0.65
50.00	2.18	64.00	1.33	78.00	0.90	92.00	0.65
50.25	2.16	64.25	1.32	78.25	0.89	92.25	0.64
50.50	2.14	64.50	1.31	78.50	0.89	92.50	0.64
50.75	2.12	64.75	1.30	78.75	0.88	92.75	0.63
51.00	2.10	65.00	1.29	79.00	0.88	93.00	0.63
51.25	2.08	65.25	1.28	79.25	0.87	93.25	0.63
51.50	2.06	65.50	1.27	79.50	0.86	93.50	0.62
51.75	2.04	65.75	1.26	79.75	0.86	93.75	0.62
52.00	2.02	66.00	1.25	80.00	0.85	94.00	0.62
52.25	2.00	66.25	1.24	80.25	0.85	94.25	0.61
52.50	1.98	66.50	1.24	80.50	0.84	94.50	0.61
52.75	1.96	66.75	1.23	80.75	0.84	94.75	0.61
53.00	1.94	67.00	1.22	81.00	0.83	95.00	0.61
53.25	1.93	67.25	1.21	81.25	0.83	95.25	0.60
53.50	1.91	67.50	1.20	81.50	0.82	95.50	0.60
53.75	1.89	67.75	1.19	81.75	0.82	95.75	0.60
54.00	1.87	68.00	1.18	82.00	0.81	96.00	0.59

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.	4.18	50.1 Inches	
BioInitiative ft.	330.00	3960.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	87400.95	10.25	103.93	20.25	26.64	30.25	11.94
0.50	34960.38	10.50	99.04	20.50	25.99	30.50	11.74
0.75	17480.19	10.75	94.49	20.75	25.37	30.75	11.55
1.00	10282.46	11.00	90.24	21.00	24.77	31.00	11.37
1.25	6723.15	11.25	86.28	21.25	24.19	31.25	11.19
1.50	4724.38	11.50	82.57	21.50	23.63	31.50	11.01
1.75	3496.04	11.75	79.10	21.75	23.09	31.75	10.84
2.00	2689.26	12.00	75.84	22.00	22.57	32.00	10.67
2.25	2131.73	12.25	72.77	22.25	22.07	32.25	10.50
2.50	1730.71	12.50	69.89	22.50	21.58	32.50	10.34
2.75	1432.80	12.75	67.18	22.75	21.11	32.75	10.19
3.00	1205.53	13.00	64.62	23.00	20.65	33.00	10.03
3.25	1028.25	13.25	62.21	23.25	20.21	33.25	9.88
3.50	887.32	13.50	59.93	23.50	19.78	33.50	9.73
3.75	773.46	13.75	57.77	23.75	19.37	33.75	9.59
4.00	680.16	14.00	55.72	24.00	18.97	34.00	9.45
4.25	602.77	14.25	53.79	24.25	18.58	34.25	9.31
4.50	537.85	14.50	51.95	24.50	18.20	34.50	9.18
4.75	482.88	14.75	50.20	24.75	17.83	34.75	9.05
5.00	435.91	15.00	48.54	25.00	17.48	35.00	8.92
5.25	395.48	15.25	46.96	25.25	17.13	35.25	8.79
5.50	360.42	15.50	45.46	25.50	16.80	35.50	8.67
5.75	329.81	15.75	44.03	25.75	16.48	35.75	8.55
6.00	302.95	16.00	42.67	26.00	16.16	36.00	8.43
6.25	279.24	16.25	41.36	26.25	15.85	36.25	8.31
6.50	258.20	16.50	40.12	26.50	15.56	36.50	8.20
6.75	239.45	16.75	38.93	26.75	15.27	36.75	8.09
7.00	222.68	17.00	37.80	27.00	14.99	37.00	7.98
7.25	207.60	17.25	36.71	27.25	14.71	37.25	7.87
7.50	194.01	17.50	35.67	27.50	14.45	37.50	7.77
7.75	181.71	17.75	34.67	27.75	14.19	37.75	7.67
8.00	170.54	18.00	33.71	28.00	13.93	38.00	7.57
8.25	160.37	18.25	32.80	28.25	13.69	38.25	7.47
8.50	151.08	18.50	31.92	28.50	13.45	38.50	7.37
8.75	142.58	18.75	31.07	28.75	13.22	38.75	7.28
9.00	134.77	19.00	30.26	29.00	12.99	39.00	7.18
9.25	127.59	19.25	29.48	29.25	12.77	39.25	7.09
9.50	120.97	19.50	28.73	29.50	12.55	39.50	7.00
9.75	114.85	19.75	28.00	29.75	12.34	39.75	6.91
10.00	109.18	20.00	27.31	30.00	12.14	40.00	6.83

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. 4.18 50.10 Inches
 BioInitiative ft. 330.00 3960.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	6.74	54.25	3.71	68.25	2.35	82.25	1.61
40.50	6.66	54.50	3.68	68.50	2.33	82.50	1.61
40.75	6.58	54.75	3.64	68.75	2.31	82.75	1.60
41.00	6.50	55.00	3.61	69.00	2.29	83.00	1.59
41.25	6.42	55.25	3.58	69.25	2.28	83.25	1.58
41.50	6.34	55.50	3.55	69.50	2.26	83.50	1.57
41.75	6.27	55.75	3.52	69.75	2.25	83.75	1.56
42.00	6.19	56.00	3.48	70.00	2.23	84.00	1.55
42.25	6.12	56.25	3.45	70.25	2.21	84.25	1.54
42.50	6.05	56.50	3.42	70.50	2.20	84.50	1.53
42.75	5.98	56.75	3.39	70.75	2.18	84.75	1.52
43.00	5.91	57.00	3.36	71.00	2.17	85.00	1.51
43.25	5.84	57.25	3.33	71.25	2.15	85.25	1.50
43.50	5.77	57.50	3.30	71.50	2.14	85.50	1.49
43.75	5.71	57.75	3.28	71.75	2.12	85.75	1.49
44.00	5.64	58.00	3.25	72.00	2.11	86.00	1.48
44.25	5.58	58.25	3.22	72.25	2.09	86.25	1.47
44.50	5.52	58.50	3.19	72.50	2.08	86.50	1.46
44.75	5.46	58.75	3.17	72.75	2.06	86.75	1.45
45.00	5.39	59.00	3.14	73.00	2.05	87.00	1.44
45.25	5.34	59.25	3.11	73.25	2.04	87.25	1.44
45.50	5.28	59.50	3.09	73.50	2.02	87.50	1.43
45.75	5.22	59.75	3.06	73.75	2.01	87.75	1.42
46.00	5.16	60.00	3.03	74.00	2.00	88.00	1.41
46.25	5.11	60.25	3.01	74.25	1.98	88.25	1.40
46.50	5.05	60.50	2.98	74.50	1.97	88.50	1.39
46.75	5.00	60.75	2.96	74.75	1.96	88.75	1.39
47.00	4.95	61.00	2.94	75.00	1.94	89.00	1.38
47.25	4.89	61.25	2.91	75.25	1.93	89.25	1.37
47.50	4.84	61.50	2.89	75.50	1.92	89.50	1.36
47.75	4.79	61.75	2.87	75.75	1.90	89.75	1.36
48.00	4.74	62.00	2.84	76.00	1.89	90.00	1.35
48.25	4.69	62.25	2.82	76.25	1.88	90.25	1.34
48.50	4.64	62.50	2.80	76.50	1.87	90.50	1.33
48.75	4.60	62.75	2.77	76.75	1.85	90.75	1.33
49.00	4.55	63.00	2.75	77.00	1.84	91.00	1.32
49.25	4.50	63.25	2.73	77.25	1.83	91.25	1.31
49.50	4.46	63.50	2.71	77.50	1.82	91.50	1.30
49.75	4.41	63.75	2.69	77.75	1.81	91.75	1.30
50.00	4.37	64.00	2.67	78.00	1.80	92.00	1.29
50.25	4.33	64.25	2.65	78.25	1.78	92.25	1.28
50.50	4.28	64.50	2.63	78.50	1.77	92.50	1.28
50.75	4.24	64.75	2.61	78.75	1.76	92.75	1.27
51.00	4.20	65.00	2.59	79.00	1.75	93.00	1.26
51.25	4.16	65.25	2.57	79.25	1.74	93.25	1.26
51.50	4.12	65.50	2.55	79.50	1.73	93.50	1.25
51.75	4.08	65.75	2.53	79.75	1.72	93.75	1.24
52.00	4.04	66.00	2.51	80.00	1.71	94.00	1.24
52.25	4.00	66.25	2.49	80.25	1.70	94.25	1.23
52.50	3.96	66.50	2.47	80.50	1.69	94.50	1.22
52.75	3.93	66.75	2.45	80.75	1.68	94.75	1.22
53.00	3.89	67.00	2.43	81.00	1.67	95.00	1.21
53.25	3.85	67.25	2.42	81.25	1.65	95.25	1.20
53.50	3.82	67.50	2.40	81.50	1.64	95.50	1.20
53.75	3.78	67.75	2.38	81.75	1.63	95.75	1.19
54.00	3.75	68.00	2.36	82.00	1.62	96.00	1.19

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.	5.12	61.4 Inches	
BioInitiative ft.	405.00	4860.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	131101.42	10.25	155.89	20.25	39.96	30.25	17.91
0.50	52440.57	10.50	148.56	20.50	38.99	30.50	17.62
0.75	26220.28	10.75	141.73	20.75	38.06	30.75	17.33
1.00	15423.70	11.00	135.37	21.00	37.16	31.00	17.05
1.25	10084.72	11.25	129.42	21.25	36.29	31.25	16.78
1.50	7086.56	11.50	123.86	21.50	35.45	31.50	16.51
1.75	5244.06	11.75	118.64	21.75	34.64	31.75	16.26
2.00	4033.89	12.00	113.75	22.00	33.85	32.00	16.00
2.25	3197.60	12.25	109.16	22.25	33.10	32.25	15.76
2.50	2596.07	12.50	104.84	22.50	32.37	32.50	15.51
2.75	2149.20	12.75	100.77	22.75	31.66	32.75	15.28
3.00	1808.30	13.00	96.93	23.00	30.97	33.00	15.05
3.25	1542.37	13.25	93.31	23.25	30.31	33.25	14.82
3.50	1330.98	13.50	89.89	23.50	29.67	33.50	14.60
3.75	1160.19	13.75	86.65	23.75	29.05	33.75	14.39
4.00	1020.24	14.00	83.58	24.00	28.45	34.00	14.18
4.25	904.15	14.25	80.68	24.25	27.86	34.25	13.97
4.50	806.78	14.50	77.92	24.50	27.30	34.50	13.77
4.75	724.32	14.75	75.30	24.75	26.75	34.75	13.57
5.00	653.87	15.00	72.81	25.00	26.22	35.00	13.38
5.25	593.22	15.25	70.45	25.25	25.70	35.25	13.19
5.50	540.62	15.50	68.19	25.50	25.20	35.50	13.00
5.75	494.72	15.75	66.05	25.75	24.71	35.75	12.82
6.00	454.42	16.00	64.00	26.00	24.24	36.00	12.64
6.25	418.85	16.25	62.05	26.25	23.78	36.25	12.47
6.50	387.30	16.50	60.18	26.50	23.33	36.50	12.30
6.75	359.18	16.75	58.40	26.75	22.90	36.75	12.13
7.00	334.02	17.00	56.69	27.00	22.48	37.00	11.97
7.25	311.40	17.25	55.06	27.25	22.07	37.25	11.81
7.50	291.01	17.50	53.50	27.50	21.67	37.50	11.65
7.75	272.56	17.75	52.00	27.75	21.28	37.75	11.50
8.00	255.81	18.00	50.57	28.00	20.90	38.00	11.35
8.25	240.55	18.25	49.19	28.25	20.53	38.25	11.20
8.50	226.62	18.50	47.87	28.50	20.17	38.50	11.06
8.75	213.87	18.75	46.61	28.75	19.82	38.75	10.91
9.00	202.16	19.00	45.39	29.00	19.48	39.00	10.77
9.25	191.39	19.25	44.22	29.25	19.15	39.25	10.64
9.50	181.46	19.50	43.09	29.50	18.83	39.50	10.50
9.75	172.28	19.75	42.01	29.75	18.51	39.75	10.37
10.00	163.77	20.00	40.96	30.00	18.21	40.00	10.24

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: 30% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 5.12 61.40 Inches
 BioInitiative ft. 405.00 4860.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	10.12	54.25	5.57	68.25	3.52	82.25	2.42
40.50	9.99	54.50	5.52	68.50	3.49	82.50	2.41
40.75	9.87	54.75	5.47	68.75	3.47	82.75	2.39
41.00	9.75	55.00	5.42	69.00	3.44	83.00	2.38
41.25	9.63	55.25	5.37	69.25	3.42	83.25	2.36
41.50	9.51	55.50	5.32	69.50	3.39	83.50	2.35
41.75	9.40	55.75	5.27	69.75	3.37	83.75	2.34
42.00	9.29	56.00	5.23	70.00	3.34	84.00	2.32
42.25	9.18	56.25	5.18	70.25	3.32	84.25	2.31
42.50	9.07	56.50	5.13	70.50	3.30	84.50	2.30
42.75	8.97	56.75	5.09	70.75	3.27	84.75	2.28
43.00	8.86	57.00	5.04	71.00	3.25	85.00	2.27
43.25	8.76	57.25	5.00	71.25	3.23	85.25	2.25
43.50	8.66	57.50	4.96	71.50	3.21	85.50	2.24
43.75	8.56	57.75	4.91	71.75	3.18	85.75	2.23
44.00	8.46	58.00	4.87	72.00	3.16	86.00	2.22
44.25	8.37	58.25	4.83	72.25	3.14	86.25	2.20
44.50	8.28	58.50	4.79	72.50	3.12	86.50	2.19
44.75	8.18	58.75	4.75	72.75	3.10	86.75	2.18
45.00	8.09	59.00	4.71	73.00	3.08	87.00	2.17
45.25	8.00	59.25	4.67	73.25	3.05	87.25	2.15
45.50	7.92	59.50	4.63	73.50	3.03	87.50	2.14
45.75	7.83	59.75	4.59	73.75	3.01	87.75	2.13
46.00	7.74	60.00	4.55	74.00	2.99	88.00	2.12
46.25	7.66	60.25	4.51	74.25	2.97	88.25	2.10
46.50	7.58	60.50	4.48	74.50	2.95	88.50	2.09
46.75	7.50	60.75	4.44	74.75	2.93	88.75	2.08
47.00	7.42	61.00	4.40	75.00	2.91	89.00	2.07
47.25	7.34	61.25	4.37	75.25	2.89	89.25	2.06
47.50	7.26	61.50	4.33	75.50	2.87	89.50	2.05
47.75	7.19	61.75	4.30	75.75	2.86	89.75	2.03
48.00	7.11	62.00	4.26	76.00	2.84	90.00	2.02
48.25	7.04	62.25	4.23	76.25	2.82	90.25	2.01
48.50	6.97	62.50	4.20	76.50	2.80	90.50	2.00
48.75	6.90	62.75	4.16	76.75	2.78	90.75	1.99
49.00	6.83	63.00	4.13	77.00	2.76	91.00	1.98
49.25	6.76	63.25	4.10	77.25	2.75	91.25	1.97
49.50	6.69	63.50	4.06	77.50	2.73	91.50	1.96
49.75	6.62	63.75	4.03	77.75	2.71	91.75	1.95
50.00	6.55	64.00	4.00	78.00	2.69	92.00	1.94
50.25	6.49	64.25	3.97	78.25	2.68	92.25	1.93
50.50	6.43	64.50	3.94	78.50	2.66	92.50	1.92
50.75	6.36	64.75	3.91	78.75	2.64	92.75	1.90
51.00	6.30	65.00	3.88	79.00	2.63	93.00	1.89
51.25	6.24	65.25	3.85	79.25	2.61	93.25	1.88
51.50	6.18	65.50	3.82	79.50	2.59	93.50	1.87
51.75	6.12	65.75	3.79	79.75	2.58	93.75	1.86
52.00	6.06	66.00	3.76	80.00	2.56	94.00	1.85
52.25	6.00	66.25	3.73	80.25	2.54	94.25	1.84
52.50	5.95	66.50	3.71	80.50	2.53	94.50	1.84
52.75	5.89	66.75	3.68	80.75	2.51	94.75	1.83
53.00	5.83	67.00	3.65	81.00	2.50	95.00	1.82
53.25	5.78	67.25	3.62	81.25	2.48	95.25	1.81
53.50	5.73	67.50	3.60	81.50	2.47	95.50	1.80
53.75	5.67	67.75	3.57	81.75	2.45	95.75	1.79
54.00	5.62	68.00	3.54	82.00	2.44	96.00	1.78

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.	5.91	70.9 Inches	
BioInitiative ft.	468.00	5616.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	174801.90	10.25	207.85	20.25	53.28	30.25	23.88
0.50	69920.76	10.50	198.08	20.50	51.99	30.50	23.49
0.75	34960.38	10.75	188.98	20.75	50.74	30.75	23.11
1.00	20564.93	11.00	180.49	21.00	49.54	31.00	22.74
1.25	13446.30	11.25	172.56	21.25	48.38	31.25	22.37
1.50	9448.75	11.50	165.14	21.50	47.26	31.50	22.02
1.75	6992.08	11.75	158.19	21.75	46.18	31.75	21.67
2.00	5378.52	12.00	151.67	22.00	45.14	32.00	21.34
2.25	4263.46	12.25	145.55	22.25	44.13	32.25	21.01
2.50	3461.42	12.50	139.79	22.50	43.16	32.50	20.69
2.75	2865.60	12.75	134.36	22.75	42.21	32.75	20.37
3.00	2411.06	13.00	129.24	23.00	41.30	33.00	20.06
3.25	2056.49	13.25	124.41	23.25	40.42	33.25	19.76
3.50	1774.64	13.50	119.85	23.50	39.56	33.50	19.47
3.75	1546.92	13.75	115.53	23.75	38.73	33.75	19.18
4.00	1360.33	14.00	111.45	24.00	37.93	34.00	18.90
4.25	1205.53	14.25	107.57	24.25	37.15	34.25	18.63
4.50	1075.70	14.50	103.89	24.50	36.40	34.50	18.36
4.75	965.76	14.75	100.40	24.75	35.67	34.75	18.09
5.00	871.83	15.00	97.09	25.00	34.96	35.00	17.84
5.25	790.96	15.25	93.93	25.25	34.27	35.25	17.58
5.50	720.83	15.50	90.92	25.50	33.60	35.50	17.34
5.75	659.63	15.75	88.06	25.75	32.95	35.75	17.10
6.00	605.90	16.00	85.33	26.00	32.32	36.00	16.86
6.25	558.47	16.25	82.73	26.25	31.71	36.25	16.63
6.50	516.40	16.50	80.24	26.50	31.11	36.50	16.40
6.75	478.91	16.75	77.86	26.75	30.53	36.75	16.18
7.00	445.36	17.00	75.59	27.00	29.97	37.00	15.96
7.25	415.21	17.25	73.42	27.25	29.42	37.25	15.75
7.50	388.02	17.50	71.33	27.50	28.89	37.50	15.54
7.75	363.41	17.75	69.34	27.75	28.37	37.75	15.33
8.00	341.08	18.00	67.43	28.00	27.87	38.00	15.13
8.25	320.74	18.25	65.59	28.25	27.38	38.25	14.93
8.50	302.16	18.50	63.83	28.50	26.90	38.50	14.74
8.75	285.16	18.75	62.14	28.75	26.43	38.75	14.55
9.00	269.55	19.00	60.52	29.00	25.98	39.00	14.37
9.25	255.19	19.25	58.96	29.25	25.54	39.25	14.18
9.50	241.94	19.50	57.45	29.50	25.11	39.50	14.00
9.75	229.70	19.75	56.01	29.75	24.69	39.75	13.83
10.00	218.37	20.00	54.62	30.00	24.28	40.00	13.66

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 – 1000% reflections)

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

Distance where limits are exceeded
 FCC ft. 5.91 70.91 Inches
 BioInitiative ft. 468.00 5616.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	13.49	54.25	7.42	68.25	4.69	82.25	3.23
40.50	13.32	54.50	7.36	68.50	4.66	82.50	3.21
40.75	13.16	54.75	7.29	68.75	4.62	82.75	3.19
41.00	13.00	55.00	7.22	69.00	4.59	83.00	3.17
41.25	12.84	55.25	7.16	69.25	4.56	83.25	3.15
41.50	12.69	55.50	7.09	69.50	4.52	83.50	3.13
41.75	12.54	55.75	7.03	69.75	4.49	83.75	3.12
42.00	12.39	56.00	6.97	70.00	4.46	84.00	3.10
42.25	12.24	56.25	6.91	70.25	4.43	84.25	3.08
42.50	12.10	56.50	6.84	70.50	4.40	84.50	3.06
42.75	11.96	56.75	6.78	70.75	4.37	84.75	3.04
43.00	11.82	57.00	6.73	71.00	4.33	85.00	3.02
43.25	11.68	57.25	6.67	71.25	4.30	85.25	3.01
43.50	11.55	57.50	6.61	71.50	4.27	85.50	2.99
43.75	11.42	57.75	6.55	71.75	4.24	85.75	2.97
44.00	11.29	58.00	6.50	72.00	4.21	86.00	2.95
44.25	11.16	58.25	6.44	72.25	4.19	86.25	2.94
44.50	11.03	58.50	6.38	72.50	4.16	86.50	2.92
44.75	10.91	58.75	6.33	72.75	4.13	86.75	2.90
45.00	10.79	59.00	6.28	73.00	4.10	87.00	2.89
45.25	10.67	59.25	6.22	73.25	4.07	87.25	2.87
45.50	10.55	59.50	6.17	73.50	4.04	87.50	2.85
45.75	10.44	59.75	6.12	73.75	4.02	87.75	2.84
46.00	10.33	60.00	6.07	74.00	3.99	88.00	2.82
46.25	10.21	60.25	6.02	74.25	3.96	88.25	2.81
46.50	10.11	60.50	5.97	74.50	3.94	88.50	2.79
46.75	10.00	60.75	5.92	74.75	3.91	88.75	2.77
47.00	9.89	61.00	5.87	75.00	3.88	89.00	2.76
47.25	9.79	61.25	5.82	75.25	3.86	89.25	2.74
47.50	9.68	61.50	5.78	75.50	3.83	89.50	2.73
47.75	9.58	61.75	5.73	75.75	3.81	89.75	2.71
48.00	9.48	62.00	5.68	76.00	3.78	90.00	2.70
48.25	9.39	62.25	5.64	76.25	3.76	90.25	2.68
48.50	9.29	62.50	5.59	76.50	3.73	90.50	2.67
48.75	9.19	62.75	5.55	76.75	3.71	90.75	2.65
49.00	9.10	63.00	5.51	77.00	3.69	91.00	2.64
49.25	9.01	63.25	5.46	77.25	3.66	91.25	2.62
49.50	8.92	63.50	5.42	77.50	3.64	91.50	2.61
49.75	8.83	63.75	5.38	77.75	3.61	91.75	2.60
50.00	8.74	64.00	5.33	78.00	3.59	92.00	2.58
50.25	8.65	64.25	5.29	78.25	3.57	92.25	2.57
50.50	8.57	64.50	5.25	78.50	3.55	92.50	2.55
50.75	8.48	64.75	5.21	78.75	3.52	92.75	2.54
51.00	8.40	65.00	5.17	79.00	3.50	93.00	2.53
51.25	8.32	65.25	5.13	79.25	3.48	93.25	2.51
51.50	8.24	65.50	5.09	79.50	3.46	93.50	2.50
51.75	8.16	65.75	5.05	79.75	3.44	93.75	2.49
52.00	8.08	66.00	5.02	80.00	3.41	94.00	2.47
52.25	8.00	66.25	4.98	80.25	3.39	94.25	2.46
52.50	7.93	66.50	4.94	80.50	3.37	94.50	2.45
52.75	7.85	66.75	4.90	80.75	3.35	94.75	2.43
53.00	7.78	67.00	4.87	81.00	3.33	95.00	2.42
53.25	7.71	67.25	4.83	81.25	3.31	95.25	2.41
53.50	7.63	67.50	4.80	81.50	3.29	95.50	2.40
53.75	7.56	67.75	4.76	81.75	3.27	95.75	2.38
54.00	7.49	68.00	4.73	82.00	3.25	96.00	2.37

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.	79.3 Inches
BioInitiative ft.	6276.0 Inches
6.61	
523.00	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	218502.37	10.25	259.81	20.25	66.60	30.25	29.85
0.50	87400.95	10.50	247.59	20.50	64.98	30.50	29.36
0.75	43700.47	10.75	236.22	20.75	63.43	30.75	28.88
1.00	25706.16	11.00	225.61	21.00	61.93	31.00	28.42
1.25	16807.87	11.25	215.70	21.25	60.48	31.25	27.97
1.50	11810.94	11.50	206.43	21.50	59.08	31.50	27.52
1.75	8740.09	11.75	197.74	21.75	57.73	31.75	27.09
2.00	6723.15	12.00	189.59	22.00	56.42	32.00	26.67
2.25	5329.33	12.25	181.93	22.25	55.16	32.25	26.26
2.50	4326.78	12.50	174.73	22.50	53.94	32.50	25.86
2.75	3582.01	12.75	167.95	22.75	52.77	32.75	25.46
3.00	3013.83	13.00	161.55	23.00	51.62	33.00	25.08
3.25	2570.62	13.25	155.52	23.25	50.52	33.25	24.70
3.50	2218.30	13.50	149.81	23.50	49.45	33.50	24.34
3.75	1933.65	13.75	144.42	23.75	48.42	33.75	23.98
4.00	1700.41	14.00	139.31	24.00	47.41	34.00	23.63
4.25	1506.91	14.25	134.46	24.25	46.44	34.25	23.28
4.50	1344.63	14.50	129.87	24.50	45.50	34.50	22.95
4.75	1207.20	14.75	125.50	24.75	44.58	34.75	22.62
5.00	1089.79	15.00	121.36	25.00	43.70	35.00	22.30
5.25	988.70	15.25	117.41	25.25	42.84	35.25	21.98
5.50	901.04	15.50	113.66	25.50	42.00	35.50	21.67
5.75	824.54	15.75	110.08	25.75	41.19	35.75	21.37
6.00	757.37	16.00	106.66	26.00	40.40	36.00	21.07
6.25	698.09	16.25	103.41	26.25	39.63	36.25	20.78
6.50	645.50	16.50	100.30	26.50	38.89	36.50	20.50
6.75	598.64	16.75	97.33	26.75	38.17	36.75	20.22
7.00	556.69	17.00	94.49	27.00	37.46	37.00	19.95
7.25	519.01	17.25	91.77	27.25	36.78	37.25	19.68
7.50	485.02	17.50	89.17	27.50	36.11	37.50	19.42
7.75	454.27	17.75	86.67	27.75	35.47	37.75	19.17
8.00	426.35	18.00	84.28	28.00	34.83	38.00	18.91
8.25	400.92	18.25	81.99	28.25	34.22	38.25	18.67
8.50	377.71	18.50	79.79	28.50	33.62	38.50	18.43
8.75	356.45	18.75	77.68	28.75	33.04	38.75	18.19
9.00	336.94	19.00	75.65	29.00	32.47	39.00	17.96
9.25	318.98	19.25	73.69	29.25	31.92	39.25	17.73
9.50	302.43	19.50	71.82	29.50	31.38	39.50	17.50
9.75	287.13	19.75	70.01	29.75	30.86	39.75	17.29
10.00	272.96	20.00	68.27	30.00	30.35	40.00	17.07

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: 50% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 6.61 79.30 Inches
 BioInitiative ft. 523.00 6276.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	16.86	54.25	9.28	68.25	5.86	82.25	4.04
40.50	16.65	54.50	9.20	68.50	5.82	82.50	4.01
40.75	16.45	54.75	9.11	68.75	5.78	82.75	3.99
41.00	16.25	55.00	9.03	69.00	5.74	83.00	3.96
41.25	16.05	55.25	8.95	69.25	5.70	83.25	3.94
41.50	15.86	55.50	8.87	69.50	5.65	83.50	3.92
41.75	15.67	55.75	8.79	69.75	5.61	83.75	3.89
42.00	15.48	56.00	8.71	70.00	5.57	84.00	3.87
42.25	15.30	56.25	8.63	70.25	5.53	84.25	3.85
42.50	15.12	56.50	8.56	70.50	5.50	84.50	3.83
42.75	14.94	56.75	8.48	70.75	5.46	84.75	3.80
43.00	14.77	57.00	8.41	71.00	5.42	85.00	3.78
43.25	14.60	57.25	8.33	71.25	5.38	85.25	3.76
43.50	14.43	57.50	8.26	71.50	5.34	85.50	3.74
43.75	14.27	57.75	8.19	71.75	5.31	85.75	3.71
44.00	14.11	58.00	8.12	72.00	5.27	86.00	3.69
44.25	13.95	58.25	8.05	72.25	5.23	86.25	3.67
44.50	13.79	58.50	7.98	72.50	5.20	86.50	3.65
44.75	13.64	58.75	7.91	72.75	5.16	86.75	3.63
45.00	13.49	59.00	7.85	73.00	5.13	87.00	3.61
45.25	13.34	59.25	7.78	73.25	5.09	87.25	3.59
45.50	13.19	59.50	7.71	73.50	5.06	87.50	3.57
45.75	13.05	59.75	7.65	73.75	5.02	87.75	3.55
46.00	12.91	60.00	7.59	74.00	4.99	88.00	3.53
46.25	12.77	60.25	7.52	74.25	4.95	88.25	3.51
46.50	12.63	60.50	7.46	74.50	4.92	88.50	3.49
46.75	12.50	60.75	7.40	74.75	4.89	88.75	3.47
47.00	12.36	61.00	7.34	75.00	4.86	89.00	3.45
47.25	12.23	61.25	7.28	75.25	4.82	89.25	3.43
47.50	12.11	61.50	7.22	75.50	4.79	89.50	3.41
47.75	11.98	61.75	7.16	75.75	4.76	89.75	3.39
48.00	11.85	62.00	7.11	76.00	4.73	90.00	3.37
48.25	11.73	62.25	7.05	76.25	4.70	90.25	3.35
48.50	11.61	62.50	6.99	76.50	4.67	90.50	3.33
48.75	11.49	62.75	6.94	76.75	4.64	90.75	3.32
49.00	11.38	63.00	6.88	77.00	4.61	91.00	3.30
49.25	11.26	63.25	6.83	77.25	4.58	91.25	3.28
49.50	11.15	63.50	6.77	77.50	4.55	91.50	3.26
49.75	11.03	63.75	6.72	77.75	4.52	91.75	3.24
50.00	10.92	64.00	6.67	78.00	4.49	92.00	3.23
50.25	10.82	64.25	6.62	78.25	4.46	92.25	3.21
50.50	10.71	64.50	6.57	78.50	4.43	92.50	3.19
50.75	10.60	64.75	6.51	78.75	4.40	92.75	3.17
51.00	10.50	65.00	6.46	79.00	4.38	93.00	3.16
51.25	10.40	65.25	6.42	79.25	4.35	93.25	3.14
51.50	10.30	65.50	6.37	79.50	4.32	93.50	3.12
51.75	10.20	65.75	6.32	79.75	4.29	93.75	3.11
52.00	10.10	66.00	6.27	80.00	4.27	94.00	3.09
52.25	10.00	66.25	6.22	80.25	4.24	94.25	3.07
52.50	9.91	66.50	6.18	80.50	4.21	94.50	3.06
52.75	9.82	66.75	6.13	80.75	4.19	94.75	3.04
53.00	9.72	67.00	6.08	81.00	4.16	95.00	3.03
53.25	9.63	67.25	6.04	81.25	4.14	95.25	3.01
53.50	9.54	67.50	5.99	81.50	4.11	95.50	2.99
53.75	9.45	67.75	5.95	81.75	4.09	95.75	2.98
54.00	9.37	68.00	5.91	82.00	4.06	96.00	2.96

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. 7.24	86.9 Inches
BioInitiative ft. 573.00	6876.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	262202.85	10.25	311.78	20.25	79.92	30.25	35.82
0.50	104881.14	10.50	297.11	20.50	77.98	30.50	35.23
0.75	52440.57	10.75	283.46	20.75	76.11	30.75	34.66
1.00	30847.39	11.00	270.73	21.00	74.31	31.00	34.10
1.25	20169.45	11.25	258.84	21.25	72.57	31.25	33.56
1.50	14173.13	11.50	247.71	21.50	70.89	31.50	33.03
1.75	10488.11	11.75	237.29	21.75	69.27	31.75	32.51
2.00	8067.78	12.00	227.51	22.00	67.71	32.00	32.01
2.25	6395.19	12.25	218.32	22.25	66.20	32.25	31.51
2.50	5192.14	12.50	209.68	22.50	64.73	32.50	31.03
2.75	4298.41	12.75	201.54	22.75	63.32	32.75	30.56
3.00	3616.59	13.00	193.87	23.00	61.95	33.00	30.10
3.25	3084.74	13.25	186.62	23.25	60.62	33.25	29.64
3.50	2661.96	13.50	179.78	23.50	59.34	33.50	29.20
3.75	2320.38	13.75	173.30	23.75	58.10	33.75	28.77
4.00	2040.49	14.00	167.17	24.00	56.90	34.00	28.35
4.25	1808.30	14.25	161.36	24.25	55.73	34.25	27.94
4.50	1613.56	14.50	155.84	24.50	54.60	34.50	27.54
4.75	1448.63	14.75	150.60	24.75	53.50	34.75	27.14
5.00	1307.74	15.00	145.63	25.00	52.44	35.00	26.75
5.25	1186.44	15.25	140.89	25.25	51.40	35.25	26.38
5.50	1081.25	15.50	136.39	25.50	50.40	35.50	26.01
5.75	989.44	15.75	132.09	25.75	49.43	35.75	25.64
6.00	908.85	16.00	128.00	26.00	48.48	36.00	25.29
6.25	837.71	16.25	124.09	26.25	47.56	36.25	24.94
6.50	774.60	16.50	120.36	26.50	46.67	36.50	24.60
6.75	718.36	16.75	116.79	26.75	45.80	36.75	24.27
7.00	668.03	17.00	113.39	27.00	44.96	37.00	23.94
7.25	622.81	17.25	110.12	27.25	44.13	37.25	23.62
7.50	582.03	17.50	107.00	27.50	43.34	37.50	23.31
7.75	545.12	17.75	104.01	27.75	42.56	37.75	23.00
8.00	511.62	18.00	101.14	28.00	41.80	38.00	22.70
8.25	481.11	18.25	98.39	28.25	41.07	38.25	22.40
8.50	453.25	18.50	95.75	28.50	40.35	38.50	22.11
8.75	427.74	18.75	93.21	28.75	39.65	38.75	21.83
9.00	404.32	19.00	90.77	29.00	38.97	39.00	21.55
9.25	382.78	19.25	88.43	29.25	38.31	39.25	21.27
9.50	362.91	19.50	86.18	29.50	37.66	39.50	21.01
9.75	344.55	19.75	84.01	29.75	37.03	39.75	20.74
10.00	327.55	20.00	81.93	30.00	36.41	40.00	20.48

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: 60% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 7.24 86.88 Inches
 BioInitiative ft. 573.00 6876.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	20.23	54.25	11.14	68.25	7.04	82.25	4.84
40.50	19.98	54.50	11.03	68.50	6.98	82.50	4.82
40.75	19.74	54.75	10.93	68.75	6.93	82.75	4.79
41.00	19.50	55.00	10.83	69.00	6.88	83.00	4.76
41.25	19.26	55.25	10.74	69.25	6.83	83.25	4.73
41.50	19.03	55.50	10.64	69.50	6.79	83.50	4.70
41.75	18.80	55.75	10.55	69.75	6.74	83.75	4.67
42.00	18.58	56.00	10.45	70.00	6.69	84.00	4.64
42.25	18.36	56.25	10.36	70.25	6.64	84.25	4.62
42.50	18.14	56.50	10.27	70.50	6.59	84.50	4.59
42.75	17.93	56.75	10.18	70.75	6.55	84.75	4.56
43.00	17.73	57.00	10.09	71.00	6.50	85.00	4.54
43.25	17.52	57.25	10.00	71.25	6.46	85.25	4.51
43.50	17.32	57.50	9.91	71.50	6.41	85.50	4.48
43.75	17.12	57.75	9.83	71.75	6.37	85.75	4.46
44.00	16.93	58.00	9.74	72.00	6.32	86.00	4.43
44.25	16.74	58.25	9.66	72.25	6.28	86.25	4.41
44.50	16.55	58.50	9.58	72.50	6.24	86.50	4.38
44.75	16.37	58.75	9.50	72.75	6.19	86.75	4.36
45.00	16.18	59.00	9.42	73.00	6.15	87.00	4.33
45.25	16.01	59.25	9.34	73.25	6.11	87.25	4.31
45.50	15.83	59.50	9.26	73.50	6.07	87.50	4.28
45.75	15.66	59.75	9.18	73.75	6.03	87.75	4.26
46.00	15.49	60.00	9.10	74.00	5.99	88.00	4.23
46.25	15.32	60.25	9.03	74.25	5.94	88.25	4.21
46.50	15.16	60.50	8.95	74.50	5.91	88.50	4.18
46.75	15.00	60.75	8.88	74.75	5.87	88.75	4.16
47.00	14.84	61.00	8.81	75.00	5.83	89.00	4.14
47.25	14.68	61.25	8.74	75.25	5.79	89.25	4.11
47.50	14.53	61.50	8.67	75.50	5.75	89.50	4.09
47.75	14.37	61.75	8.60	75.75	5.71	89.75	4.07
48.00	14.23	62.00	8.53	76.00	5.67	90.00	4.05
48.25	14.08	62.25	8.46	76.25	5.64	90.25	4.02
48.50	13.93	62.50	8.39	76.50	5.60	90.50	4.00
48.75	13.79	62.75	8.32	76.75	5.56	90.75	3.98
49.00	13.65	63.00	8.26	77.00	5.53	91.00	3.96
49.25	13.51	63.25	8.19	77.25	5.49	91.25	3.94
49.50	13.38	63.50	8.13	77.50	5.46	91.50	3.91
49.75	13.24	63.75	8.06	77.75	5.42	91.75	3.89
50.00	13.11	64.00	8.00	78.00	5.39	92.00	3.87
50.25	12.98	64.25	7.94	78.25	5.35	92.25	3.85
50.50	12.85	64.50	7.88	78.50	5.32	92.50	3.83
50.75	12.73	64.75	7.82	78.75	5.28	92.75	3.81
51.00	12.60	65.00	7.76	79.00	5.25	93.00	3.79
51.25	12.48	65.25	7.70	79.25	5.22	93.25	3.77
51.50	12.36	65.50	7.64	79.50	5.19	93.50	3.75
51.75	12.24	65.75	7.58	79.75	5.15	93.75	3.73
52.00	12.12	66.00	7.52	80.00	5.12	94.00	3.71
52.25	12.01	66.25	7.47	80.25	5.09	94.25	3.69
52.50	11.89	66.50	7.41	80.50	5.06	94.50	3.67
52.75	11.78	66.75	7.36	80.75	5.03	94.75	3.65
53.00	11.67	67.00	7.30	81.00	5.00	95.00	3.63
53.25	11.56	67.25	7.25	81.25	4.96	95.25	3.61
53.50	11.45	67.50	7.19	81.50	4.93	95.50	3.59
53.75	11.34	67.75	7.14	81.75	4.90	95.75	3.57
54.00	11.24	68.00	7.09	82.00	4.87	96.00	3.56

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. 7.82	93.9 Inches
BioInitiative ft. 618.00	7416.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	305903.32	10.25	363.74	20.25	93.23	30.25	41.78
0.50	122361.33	10.50	346.63	20.50	90.97	30.50	41.10
0.75	61180.66	10.75	330.71	20.75	88.80	30.75	40.44
1.00	35988.63	11.00	315.85	21.00	86.70	31.00	39.79
1.25	23531.02	11.25	301.98	21.25	84.67	31.25	39.15
1.50	16535.31	11.50	289.00	21.50	82.71	31.50	38.53
1.75	12236.13	11.75	276.84	21.75	80.82	31.75	37.93
2.00	9412.41	12.00	265.43	22.00	78.99	32.00	37.34
2.25	7461.06	12.25	254.71	22.25	77.23	32.25	36.76
2.50	6057.49	12.50	244.62	22.50	75.52	32.50	36.20
2.75	5014.81	12.75	235.13	22.75	73.87	32.75	35.65
3.00	4219.36	13.00	226.18	23.00	72.27	33.00	35.11
3.25	3598.86	13.25	217.72	23.25	70.73	33.25	34.58
3.50	3105.62	13.50	209.74	23.50	69.23	33.50	34.07
3.75	2707.11	13.75	202.18	23.75	67.78	33.75	33.57
4.00	2380.57	14.00	195.03	24.00	66.38	34.00	33.08
4.25	2109.68	14.25	188.25	24.25	65.02	34.25	32.59
4.50	1882.48	14.50	181.81	24.50	63.70	34.50	32.12
4.75	1690.07	14.75	175.71	24.75	62.42	34.75	31.66
5.00	1525.70	15.00	169.90	25.00	61.17	35.00	31.21
5.25	1384.18	15.25	164.38	25.25	59.97	35.25	30.77
5.50	1261.46	15.50	159.12	25.50	58.80	35.50	30.34
5.75	1154.35	15.75	154.11	25.75	57.66	35.75	29.92
6.00	1060.32	16.00	149.33	26.00	56.56	36.00	29.50
6.25	977.33	16.25	144.77	26.25	55.49	36.25	29.10
6.50	903.70	16.50	140.42	26.50	54.45	36.50	28.70
6.75	838.09	16.75	136.26	26.75	53.43	36.75	28.31
7.00	779.37	17.00	132.28	27.00	52.45	37.00	27.93
7.25	726.61	17.25	128.48	27.25	51.49	37.25	27.56
7.50	679.03	17.50	124.83	27.50	50.56	37.50	27.19
7.75	635.97	17.75	121.34	27.75	49.65	37.75	26.83
8.00	596.88	18.00	118.00	28.00	48.77	38.00	26.48
8.25	561.29	18.25	114.79	28.25	47.91	38.25	26.13
8.50	528.79	18.50	111.70	28.50	47.07	38.50	25.80
8.75	499.03	18.75	108.75	28.75	46.26	38.75	25.46
9.00	471.71	19.00	105.90	29.00	45.46	39.00	25.14
9.25	446.57	19.25	103.17	29.25	44.69	39.25	24.82
9.50	423.40	19.50	100.54	29.50	43.94	39.50	24.51
9.75	401.98	19.75	98.01	29.75	43.20	39.75	24.20
10.00	382.14	20.00	95.58	30.00	42.48	40.00	23.90

Notes:

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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - 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. 7.82 93.85 Inches
 BioInitiative ft. 618.00 7416.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	23.60	54.25	12.99	68.25	8.21	82.25	5.65
40.50	23.31	54.50	12.87	68.50	8.15	82.50	5.62
40.75	23.03	54.75	12.76	68.75	8.09	82.75	5.58
41.00	22.75	55.00	12.64	69.00	8.03	83.00	5.55
41.25	22.47	55.25	12.53	69.25	7.97	83.25	5.52
41.50	22.20	55.50	12.41	69.50	7.92	83.50	5.48
41.75	21.94	55.75	12.30	69.75	7.86	83.75	5.45
42.00	21.68	56.00	12.19	70.00	7.80	84.00	5.42
42.25	21.42	56.25	12.08	70.25	7.75	84.25	5.39
42.50	21.17	56.50	11.98	70.50	7.69	84.50	5.36
42.75	20.92	56.75	11.87	70.75	7.64	84.75	5.32
43.00	20.68	57.00	11.77	71.00	7.59	85.00	5.29
43.25	20.44	57.25	11.67	71.25	7.53	85.25	5.26
43.50	20.21	57.50	11.57	71.50	7.48	85.50	5.23
43.75	19.98	57.75	11.47	71.75	7.43	85.75	5.20
44.00	19.75	58.00	11.37	72.00	7.38	86.00	5.17
44.25	19.53	58.25	11.27	72.25	7.33	86.25	5.14
44.50	19.31	58.50	11.17	72.50	7.27	86.50	5.11
44.75	19.09	58.75	11.08	72.75	7.22	86.75	5.08
45.00	18.88	59.00	10.98	73.00	7.18	87.00	5.05
45.25	18.67	59.25	10.89	73.25	7.13	87.25	5.02
45.50	18.47	59.50	10.80	73.50	7.08	87.50	4.99
45.75	18.27	59.75	10.71	73.75	7.03	87.75	4.97
46.00	18.07	60.00	10.62	74.00	6.98	88.00	4.94
46.25	17.88	60.25	10.53	74.25	6.94	88.25	4.91
46.50	17.68	60.50	10.45	74.50	6.89	88.50	4.88
46.75	17.50	60.75	10.36	74.75	6.84	88.75	4.85
47.00	17.31	61.00	10.28	75.00	6.80	89.00	4.83
47.25	17.13	61.25	10.19	75.25	6.75	89.25	4.80
47.50	16.95	61.50	10.11	75.50	6.71	89.50	4.77
47.75	16.77	61.75	10.03	75.75	6.66	89.75	4.75
48.00	16.60	62.00	9.95	76.00	6.62	90.00	4.72
48.25	16.42	62.25	9.87	76.25	6.58	90.25	4.69
48.50	16.26	62.50	9.79	76.50	6.53	90.50	4.67
48.75	16.09	62.75	9.71	76.75	6.49	90.75	4.64
49.00	15.93	63.00	9.63	77.00	6.45	91.00	4.62
49.25	15.76	63.25	9.56	77.25	6.41	91.25	4.59
49.50	15.61	63.50	9.48	77.50	6.37	91.50	4.57
49.75	15.45	63.75	9.41	77.75	6.33	91.75	4.54
50.00	15.29	64.00	9.34	78.00	6.28	92.00	4.52
50.25	15.14	64.25	9.26	78.25	6.24	92.25	4.49
50.50	14.99	64.50	9.19	78.50	6.21	92.50	4.47
50.75	14.85	64.75	9.12	78.75	6.17	92.75	4.44
51.00	14.70	65.00	9.05	79.00	6.13	93.00	4.42
51.25	14.56	65.25	8.98	79.25	6.09	93.25	4.40
51.50	14.42	65.50	8.91	79.50	6.05	93.50	4.37
51.75	14.28	65.75	8.84	79.75	6.01	93.75	4.35
52.00	14.14	66.00	8.78	80.00	5.97	94.00	4.33
52.25	14.01	66.25	8.71	80.25	5.94	94.25	4.30
52.50	13.87	66.50	8.65	80.50	5.90	94.50	4.28
52.75	13.74	66.75	8.58	80.75	5.86	94.75	4.26
53.00	13.61	67.00	8.52	81.00	5.83	95.00	4.24
53.25	13.48	67.25	8.45	81.25	5.79	95.25	4.21
53.50	13.36	67.50	8.39	81.50	5.76	95.50	4.19
53.75	13.24	67.75	8.33	81.75	5.72	95.75	4.17
54.00	13.11	68.00	8.27	82.00	5.69	96.00	4.15

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.	8.36 100.3 Inches
BioInitiative ft.	660.00 7920.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	349603.80	10.25	415.70	20.25	106.55	30.25	47.75
0.50	139841.52	10.50	396.15	20.50	103.97	30.50	46.97
0.75	69920.76	10.75	377.95	20.75	101.48	30.75	46.21
1.00	41129.86	11.00	360.97	21.00	99.08	31.00	45.47
1.25	26892.60	11.25	345.12	21.25	96.76	31.25	44.75
1.50	18897.50	11.50	330.28	21.50	94.53	31.50	44.04
1.75	13984.15	11.75	316.38	21.75	92.37	31.75	43.35
2.00	10757.04	12.00	303.34	22.00	90.28	32.00	42.67
2.25	8526.92	12.25	291.09	22.25	88.26	32.25	42.01
2.50	6922.85	12.50	279.57	22.50	86.31	32.50	41.37
2.75	5731.21	12.75	268.72	22.75	84.42	32.75	40.74
3.00	4822.12	13.00	258.49	23.00	82.60	33.00	40.13
3.25	4112.99	13.25	248.83	23.25	80.83	33.25	39.53
3.50	3549.28	13.50	239.70	23.50	79.12	33.50	38.94
3.75	3093.84	13.75	231.07	23.75	77.47	33.75	38.36
4.00	2720.65	14.00	222.89	24.00	75.86	34.00	37.80
4.25	2411.06	14.25	215.14	24.25	74.30	34.25	37.25
4.50	2151.41	14.50	207.79	24.50	72.80	34.50	36.71
4.75	1931.51	14.75	200.81	24.75	71.33	34.75	36.19
5.00	1743.66	15.00	194.17	25.00	69.91	35.00	35.67
5.25	1581.92	15.25	187.86	25.25	68.54	35.25	35.17
5.50	1441.67	15.50	181.85	25.50	67.20	35.50	34.67
5.75	1319.26	15.75	176.12	25.75	65.90	35.75	34.19
6.00	1211.80	16.00	170.66	26.00	64.64	36.00	33.72
6.25	1116.95	16.25	165.45	26.25	63.41	36.25	33.25
6.50	1032.80	16.50	160.48	26.50	62.22	36.50	32.80
6.75	957.82	16.75	155.73	26.75	61.07	36.75	32.36
7.00	890.71	17.00	151.18	27.00	59.94	37.00	31.92
7.25	830.41	17.25	146.83	27.25	58.85	37.25	31.49
7.50	776.04	17.50	142.67	27.50	57.78	37.50	31.07
7.75	726.83	17.75	138.68	27.75	56.74	37.75	30.66
8.00	682.15	18.00	134.85	28.00	55.74	38.00	30.26
8.25	641.47	18.25	131.18	28.25	54.75	38.25	29.87
8.50	604.33	18.50	127.66	28.50	53.80	38.50	29.48
8.75	570.32	18.75	124.28	28.75	52.87	38.75	29.10
9.00	539.10	19.00	121.03	29.00	51.96	39.00	28.73
9.25	510.37	19.25	117.91	29.25	51.07	39.25	28.37
9.50	483.88	19.50	114.91	29.50	50.21	39.50	28.01
9.75	459.40	19.75	112.02	29.75	49.37	39.75	27.66
10.00	436.73	20.00	109.23	30.00	48.55	40.00	27.31

Notes:

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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - 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. 8.36 100.33 Inches
 BioInitiative ft. 660.00 7920.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	26.97	54.25	14.85	68.25	9.38	82.25	6.46
40.50	26.64	54.50	14.71	68.50	9.31	82.50	6.42
40.75	26.32	54.75	14.58	68.75	9.25	82.75	6.38
41.00	26.00	55.00	14.45	69.00	9.18	83.00	6.34
41.25	25.68	55.25	14.32	69.25	9.11	83.25	6.31
41.50	25.37	55.50	14.19	69.50	9.05	83.50	6.27
41.75	25.07	55.75	14.06	69.75	8.98	83.75	6.23
42.00	24.77	56.00	13.93	70.00	8.92	84.00	6.19
42.25	24.48	56.25	13.81	70.25	8.85	84.25	6.16
42.50	24.19	56.50	13.69	70.50	8.79	84.50	6.12
42.75	23.91	56.75	13.57	70.75	8.73	84.75	6.08
43.00	23.63	57.00	13.45	71.00	8.67	85.00	6.05
43.25	23.36	57.25	13.33	71.25	8.61	85.25	6.01
43.50	23.09	57.50	13.22	71.50	8.55	85.50	5.98
43.75	22.83	57.75	13.10	71.75	8.49	85.75	5.94
44.00	22.57	58.00	12.99	72.00	8.43	86.00	5.91
44.25	22.32	58.25	12.88	72.25	8.37	86.25	5.87
44.50	22.07	58.50	12.77	72.50	8.31	86.50	5.84
44.75	21.82	58.75	12.66	72.75	8.26	86.75	5.81
45.00	21.58	59.00	12.55	73.00	8.20	87.00	5.77
45.25	21.34	59.25	12.45	73.25	8.14	87.25	5.74
45.50	21.11	59.50	12.34	73.50	8.09	87.50	5.71
45.75	20.88	59.75	12.24	73.75	8.03	87.75	5.68
46.00	20.65	60.00	12.14	74.00	7.98	88.00	5.64
46.25	20.43	60.25	12.04	74.25	7.93	88.25	5.61
46.50	20.21	60.50	11.94	74.50	7.87	88.50	5.58
46.75	19.99	60.75	11.84	74.75	7.82	88.75	5.55
47.00	19.78	61.00	11.74	75.00	7.77	89.00	5.52
47.25	19.57	61.25	11.65	75.25	7.72	89.25	5.49
47.50	19.37	61.50	11.55	75.50	7.67	89.50	5.46
47.75	19.17	61.75	11.46	75.75	7.62	89.75	5.43
48.00	18.97	62.00	11.37	76.00	7.57	90.00	5.40
48.25	18.77	62.25	11.28	76.25	7.52	90.25	5.37
48.50	18.58	62.50	11.19	76.50	7.47	90.50	5.34
48.75	18.39	62.75	11.10	76.75	7.42	90.75	5.31
49.00	18.20	63.00	11.01	77.00	7.37	91.00	5.28
49.25	18.02	63.25	10.92	77.25	7.32	91.25	5.25
49.50	17.83	63.50	10.84	77.50	7.28	91.50	5.22
49.75	17.66	63.75	10.75	77.75	7.23	91.75	5.19
50.00	17.48	64.00	10.67	78.00	7.18	92.00	5.16
50.25	17.31	64.25	10.59	78.25	7.14	92.25	5.14
50.50	17.14	64.50	10.50	78.50	7.09	92.50	5.11
50.75	16.97	64.75	10.42	78.75	7.05	92.75	5.08
51.00	16.80	65.00	10.34	79.00	7.00	93.00	5.05
51.25	16.64	65.25	10.26	79.25	6.96	93.25	5.03
51.50	16.48	65.50	10.19	79.50	6.91	93.50	5.00
51.75	16.32	65.75	10.11	79.75	6.87	93.75	4.97
52.00	16.16	66.00	10.03	80.00	6.83	94.00	4.95
52.25	16.01	66.25	9.96	80.25	6.79	94.25	4.92
52.50	15.85	66.50	9.88	80.50	6.74	94.50	4.89
52.75	15.70	66.75	9.81	80.75	6.70	94.75	4.87
53.00	15.56	67.00	9.73	81.00	6.66	95.00	4.84
53.25	15.41	67.25	9.66	81.25	6.62	95.25	4.82
53.50	15.27	67.50	9.59	81.50	6.58	95.50	4.79
53.75	15.13	67.75	9.52	81.75	6.54	95.75	4.77
54.00	14.99	68.00	9.45	82.00	6.50	96.00	4.74

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.	8.87 106.4 Inches
BioInitiative ft.	700.00 8400.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	393304.27	10.25	467.66	20.25	119.87	30.25	53.72
0.50	157321.71	10.50	445.67	20.50	116.97	30.50	52.85
0.75	78660.85	10.75	425.19	20.75	114.17	30.75	51.99
1.00	46271.09	11.00	406.10	21.00	111.47	31.00	51.15
1.25	30254.17	11.25	388.26	21.25	108.86	31.25	50.34
1.50	21259.69	11.50	371.57	21.50	106.34	31.50	49.54
1.75	15732.17	11.75	355.93	21.75	103.91	31.75	48.77
2.00	12101.67	12.00	341.26	22.00	101.56	32.00	48.01
2.25	9592.79	12.25	327.48	22.25	99.29	32.25	47.27
2.50	7788.20	12.50	314.52	22.50	97.10	32.50	46.54
2.75	6447.61	12.75	302.31	22.75	94.98	32.75	45.83
3.00	5424.89	13.00	290.80	23.00	92.92	33.00	45.14
3.25	4627.11	13.25	279.93	23.25	90.94	33.25	44.47
3.50	3992.94	13.50	269.66	23.50	89.01	33.50	43.81
3.75	3480.57	13.75	259.95	23.75	87.15	33.75	43.16
4.00	3060.73	14.00	250.75	24.00	85.34	34.00	42.53
4.25	2712.44	14.25	242.03	24.25	83.59	34.25	41.91
4.50	2420.33	14.50	233.76	24.50	81.90	34.50	41.30
4.75	2172.95	14.75	225.91	24.75	80.25	34.75	40.71
5.00	1961.62	15.00	218.44	25.00	78.65	35.00	40.13
5.25	1779.66	15.25	211.34	25.25	77.10	35.25	39.56
5.50	1621.87	15.50	204.58	25.50	75.60	35.50	39.01
5.75	1484.17	15.75	198.14	25.75	74.14	35.75	38.46
6.00	1363.27	16.00	192.00	26.00	72.72	36.00	37.93
6.25	1256.56	16.25	186.14	26.25	71.34	36.25	37.41
6.50	1161.90	16.50	180.54	26.50	70.00	36.50	36.90
6.75	1077.55	16.75	175.19	26.75	68.70	36.75	36.40
7.00	1002.05	17.00	170.08	27.00	67.43	37.00	35.91
7.25	934.21	17.25	165.18	27.25	66.20	37.25	35.43
7.50	873.04	17.50	160.50	27.50	65.00	37.50	34.96
7.75	817.68	17.75	156.01	27.75	63.84	37.75	34.50
8.00	767.42	18.00	151.71	28.00	62.70	38.00	34.04
8.25	721.66	18.25	147.58	28.25	61.60	38.25	33.60
8.50	679.87	18.50	143.62	28.50	60.52	38.50	33.17
8.75	641.61	18.75	139.82	28.75	59.47	38.75	32.74
9.00	606.48	19.00	136.16	29.00	58.45	39.00	32.32
9.25	574.17	19.25	132.65	29.25	57.46	39.25	31.91
9.50	544.37	19.50	129.27	29.50	56.49	39.50	31.51
9.75	516.83	19.75	126.02	29.75	55.54	39.75	31.11
10.00	491.32	20.00	122.89	30.00	54.62	40.00	30.73

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. 8.87 106.43 Inches
 BioInitiative ft. 700.00 8400.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	30.35	54.25	16.70	68.25	10.55	82.25	7.27
40.50	29.97	54.50	16.55	68.50	10.48	82.50	7.22
40.75	29.61	54.75	16.40	68.75	10.40	82.75	7.18
41.00	29.25	55.00	16.25	69.00	10.33	83.00	7.14
41.25	28.89	55.25	16.11	69.25	10.25	83.25	7.09
41.50	28.54	55.50	15.96	69.50	10.18	83.50	7.05
41.75	28.20	55.75	15.82	69.75	10.11	83.75	7.01
42.00	27.87	56.00	15.68	70.00	10.03	84.00	6.97
42.25	27.54	56.25	15.54	70.25	9.96	84.25	6.93
42.50	27.22	56.50	15.40	70.50	9.89	84.50	6.89
42.75	26.90	56.75	15.27	70.75	9.82	84.75	6.84
43.00	26.59	57.00	15.13	71.00	9.75	85.00	6.80
43.25	26.28	57.25	15.00	71.25	9.68	85.25	6.76
43.50	25.98	57.50	14.87	71.50	9.62	85.50	6.73
43.75	25.68	57.75	14.74	71.75	9.55	85.75	6.69
44.00	25.39	58.00	14.61	72.00	9.48	86.00	6.65
44.25	25.11	58.25	14.49	72.25	9.42	86.25	6.61
44.50	24.83	58.50	14.37	72.50	9.35	86.50	6.57
44.75	24.55	58.75	14.24	72.75	9.29	86.75	6.53
45.00	24.28	59.00	14.12	73.00	9.23	87.00	6.50
45.25	24.01	59.25	14.00	73.25	9.16	87.25	6.46
45.50	23.75	59.50	13.89	73.50	9.10	87.50	6.42
45.75	23.49	59.75	13.77	73.75	9.04	87.75	6.38
46.00	23.23	60.00	13.66	74.00	8.98	88.00	6.35
46.25	22.98	60.25	13.54	74.25	8.92	88.25	6.31
46.50	22.74	60.50	13.43	74.50	8.86	88.50	6.28
46.75	22.49	60.75	13.32	74.75	8.80	88.75	6.24
47.00	22.26	61.00	13.21	75.00	8.74	89.00	6.21
47.25	22.02	61.25	13.10	75.25	8.68	89.25	6.17
47.50	21.79	61.50	13.00	75.50	8.62	89.50	6.14
47.75	21.56	61.75	12.89	75.75	8.57	89.75	6.10
48.00	21.34	62.00	12.79	76.00	8.51	90.00	6.07
48.25	21.12	62.25	12.69	76.25	8.46	90.25	6.04
48.50	20.90	62.50	12.59	76.50	8.40	90.50	6.00
48.75	20.69	62.75	12.49	76.75	8.35	90.75	5.97
49.00	20.48	63.00	12.39	77.00	8.29	91.00	5.94
49.25	20.27	63.25	12.29	77.25	8.24	91.25	5.90
49.50	20.06	63.50	12.19	77.50	8.19	91.50	5.87
49.75	19.86	63.75	12.10	77.75	8.13	91.75	5.84
50.00	19.66	64.00	12.00	78.00	8.08	92.00	5.81
50.25	19.47	64.25	11.91	78.25	8.03	92.25	5.78
50.50	19.28	64.50	11.82	78.50	7.98	92.50	5.75
50.75	19.09	64.75	11.73	78.75	7.93	92.75	5.71
51.00	18.90	65.00	11.64	79.00	7.88	93.00	5.68
51.25	18.72	65.25	11.55	79.25	7.83	93.25	5.65
51.50	18.54	65.50	11.46	79.50	7.78	93.50	5.62
51.75	18.36	65.75	11.37	79.75	7.73	93.75	5.59
52.00	18.18	66.00	11.29	80.00	7.68	94.00	5.56
52.25	18.01	66.25	11.20	80.25	7.63	94.25	5.53
52.50	17.84	66.50	11.12	80.50	7.59	94.50	5.51
52.75	17.67	66.75	11.03	80.75	7.54	94.75	5.48
53.00	17.50	67.00	10.95	81.00	7.49	95.00	5.45
53.25	17.34	67.25	10.87	81.25	7.45	95.25	5.42
53.50	17.18	67.50	10.79	81.50	7.40	95.50	5.39
53.75	17.02	67.75	10.71	81.75	7.36	95.75	5.36
54.00	16.86	68.00	10.63	82.00	7.31	96.00	5.33

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.	9.35	112.2 Inches	
BioInitiative ft.	740.00	8880.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	437004.74	10.25	519.63	20.25	133.19	30.25	59.69
0.50	174801.90	10.50	495.19	20.50	129.96	30.50	58.72
0.75	87400.95	10.75	472.44	20.75	126.85	30.75	57.77
1.00	51412.32	11.00	451.22	21.00	123.85	31.00	56.84
1.25	33615.75	11.25	431.40	21.25	120.95	31.25	55.93
1.50	23621.88	11.50	412.85	21.50	118.16	31.50	55.05
1.75	17480.19	11.75	395.48	21.75	115.46	31.75	54.19
2.00	13446.30	12.00	379.18	22.00	112.85	32.00	53.34
2.25	10658.65	12.25	363.87	22.25	110.33	32.25	52.52
2.50	8653.56	12.50	349.46	22.50	107.89	32.50	51.71
2.75	7164.01	12.75	335.90	22.75	105.53	32.75	50.93
3.00	6027.65	13.00	323.11	23.00	103.25	33.00	50.16
3.25	5141.23	13.25	311.04	23.25	101.04	33.25	49.41
3.50	4436.60	13.50	299.63	23.50	98.90	33.50	48.67
3.75	3867.30	13.75	288.83	23.75	96.83	33.75	47.95
4.00	3400.82	14.00	278.61	24.00	94.83	34.00	47.25
4.25	3013.83	14.25	268.93	24.25	92.88	34.25	46.56
4.50	2689.26	14.50	259.74	24.50	91.00	34.50	45.89
4.75	2414.39	14.75	251.01	24.75	89.17	34.75	45.23
5.00	2179.57	15.00	242.71	25.00	87.39	35.00	44.59
5.25	1977.40	15.25	234.82	25.25	85.67	35.25	43.96
5.50	1802.08	15.50	227.31	25.50	84.00	35.50	43.34
5.75	1649.07	15.75	220.15	25.75	82.38	35.75	42.74
6.00	1514.75	16.00	213.33	26.00	80.80	36.00	42.15
6.25	1396.18	16.25	206.82	26.25	79.27	36.25	41.57
6.50	1291.00	16.50	200.60	26.50	77.78	36.50	41.00
6.75	1197.27	16.75	194.66	26.75	76.33	36.75	40.44
7.00	1113.39	17.00	188.98	27.00	74.93	37.00	39.90
7.25	1038.02	17.25	183.54	27.25	73.56	37.25	39.37
7.50	970.04	17.50	178.33	27.50	72.23	37.50	38.84
7.75	908.53	17.75	173.35	27.75	70.93	37.75	38.33
8.00	852.69	18.00	168.56	28.00	69.67	38.00	37.83
8.25	801.84	18.25	163.98	28.25	68.44	38.25	37.33
8.50	755.41	18.50	159.58	28.50	67.25	38.50	36.85
8.75	712.90	18.75	155.35	28.75	66.08	38.75	36.38
9.00	673.87	19.00	151.29	29.00	64.95	39.00	35.91
9.25	637.96	19.25	147.39	29.25	63.84	39.25	35.46
9.50	604.85	19.50	143.63	29.50	62.77	39.50	35.01
9.75	574.25	19.75	140.02	29.75	61.72	39.75	34.57
10.00	545.91	20.00	136.54	30.00	60.69	40.00	34.14

Notes:

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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi(\text{R})^2)$$
 - 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: 100% % Reflection 1000%

Distance where limits are exceeded
 FCC ft. 9.35 112.19 Inches
 BioInitiative ft. 740.00 8880.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	33.72	54.25	18.56	68.25	11.73	82.25	8.07
40.50	33.30	54.50	18.39	68.50	11.64	82.50	8.03
40.75	32.89	54.75	18.22	68.75	11.56	82.75	7.98
41.00	32.49	55.00	18.06	69.00	11.47	83.00	7.93
41.25	32.10	55.25	17.89	69.25	11.39	83.25	7.88
41.50	31.72	55.50	17.73	69.50	11.31	83.50	7.83
41.75	31.34	55.75	17.58	69.75	11.23	83.75	7.79
42.00	30.97	56.00	17.42	70.00	11.15	84.00	7.74
42.25	30.60	56.25	17.26	70.25	11.07	84.25	7.70
42.50	30.24	56.50	17.11	70.50	10.99	84.50	7.65
42.75	29.89	56.75	16.96	70.75	10.91	84.75	7.61
43.00	29.54	57.00	16.81	71.00	10.84	85.00	7.56
43.25	29.20	57.25	16.67	71.25	10.76	85.25	7.52
43.50	28.87	57.50	16.52	71.50	10.69	85.50	7.47
43.75	28.54	57.75	16.38	71.75	10.61	85.75	7.43
44.00	28.21	58.00	16.24	72.00	10.54	86.00	7.39
44.25	27.90	58.25	16.10	72.25	10.46	86.25	7.34
44.50	27.58	58.50	15.96	72.50	10.39	86.50	7.30
44.75	27.28	58.75	15.83	72.75	10.32	86.75	7.26
45.00	26.97	59.00	15.69	73.00	10.25	87.00	7.22
45.25	26.68	59.25	15.56	73.25	10.18	87.25	7.18
45.50	26.39	59.50	15.43	73.50	10.11	87.50	7.13
45.75	26.10	59.75	15.30	73.75	10.04	87.75	7.09
46.00	25.81	60.00	15.17	74.00	9.98	88.00	7.05
46.25	25.54	60.25	15.05	74.25	9.91	88.25	7.01
46.50	25.26	60.50	14.92	74.50	9.84	88.50	6.97
46.75	24.99	60.75	14.80	74.75	9.78	88.75	6.94
47.00	24.73	61.00	14.68	75.00	9.71	89.00	6.90
47.25	24.47	61.25	14.56	75.25	9.65	89.25	6.86
47.50	24.21	61.50	14.44	75.50	9.58	89.50	6.82
47.75	23.96	61.75	14.33	75.75	9.52	89.75	6.78
48.00	23.71	62.00	14.21	76.00	9.46	90.00	6.74
48.25	23.46	62.25	14.10	76.25	9.40	90.25	6.71
48.50	23.22	62.50	13.98	76.50	9.33	90.50	6.67
48.75	22.98	62.75	13.87	76.75	9.27	90.75	6.63
49.00	22.75	63.00	13.76	77.00	9.21	91.00	6.60
49.25	22.52	63.25	13.65	77.25	9.15	91.25	6.56
49.50	22.29	63.50	13.55	77.50	9.09	91.50	6.52
49.75	22.07	63.75	13.44	77.75	9.04	91.75	6.49
50.00	21.85	64.00	13.34	78.00	8.98	92.00	6.45
50.25	21.63	64.25	13.23	78.25	8.92	92.25	6.42
50.50	21.42	64.50	13.13	78.50	8.86	92.50	6.38
50.75	21.21	64.75	13.03	78.75	8.81	92.75	6.35
51.00	21.00	65.00	12.93	79.00	8.75	93.00	6.32
51.25	20.80	65.25	12.83	79.25	8.70	93.25	6.28
51.50	20.60	65.50	12.73	79.50	8.64	93.50	6.25
51.75	20.40	65.75	12.64	79.75	8.59	93.75	6.22
52.00	20.20	66.00	12.54	80.00	8.54	94.00	6.18
52.25	20.01	66.25	12.45	80.25	8.48	94.25	6.15
52.50	19.82	66.50	12.35	80.50	8.43	94.50	6.12
52.75	19.63	66.75	12.26	80.75	8.38	94.75	6.08
53.00	19.45	67.00	12.17	81.00	8.33	95.00	6.05
53.25	19.26	67.25	12.08	81.25	8.27	95.25	6.02
53.50	19.08	67.50	11.99	81.50	8.22	95.50	5.99
53.75	18.91	67.75	11.90	81.75	8.17	95.75	5.96
54.00	18.73	68.00	11.81	82.00	8.12	96.00	5.93