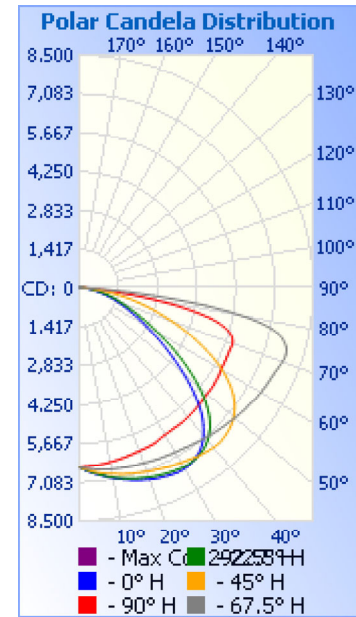


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 200W T3 - 200V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-200-T3-200V  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 25901.3  
**Max Candela:** 8,477.2 at Horizontal: 292.5°, Vertical: 71°  
**Input Wattage:** 201.84  
**Luminous Opening:** Point  
**Test Lab:** Shenzhen Belling Test Laboratory  
**Photometry :** Type C  
**Nema Type:** 7 X 7

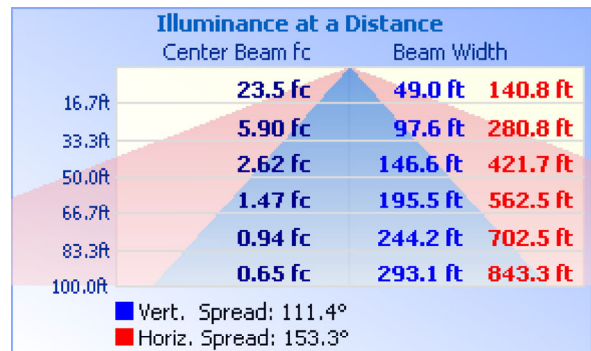
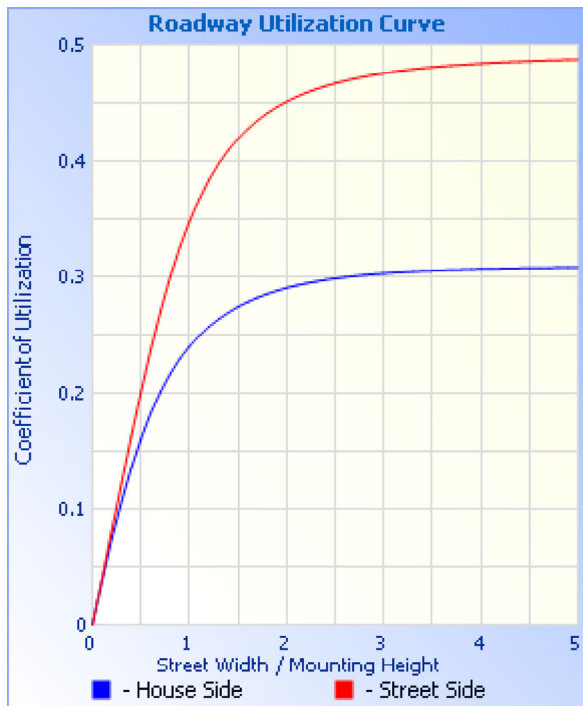
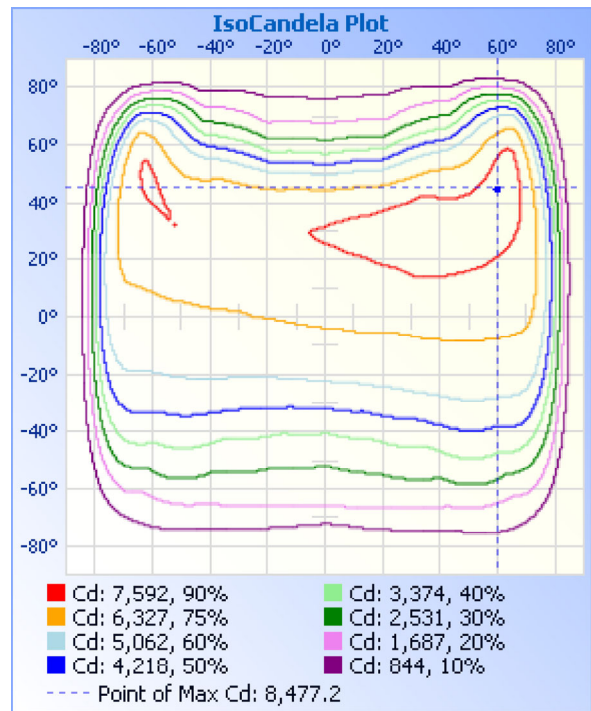
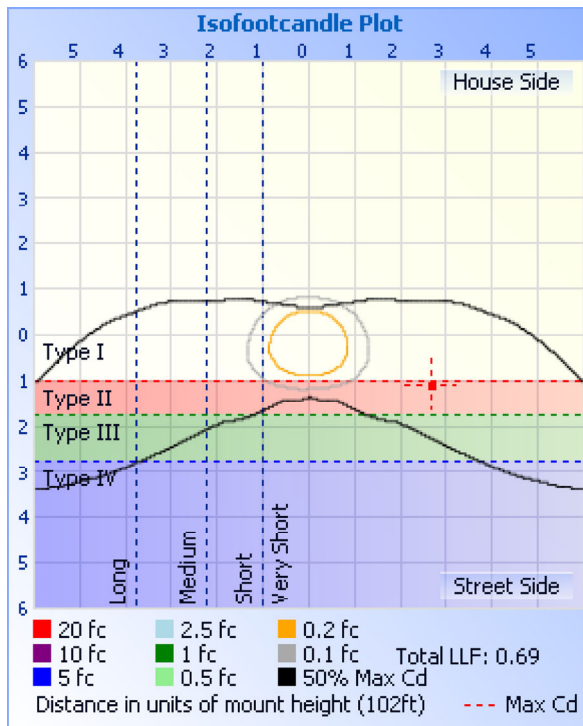


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	52.5	
Max Cd, 80 to <90 Deg:	6,652.9	
	Lumens	% Lamp
Downward Street Side:	15,800.5	61%
Downward House Side:	9,946.4	38.4%
Downward Total:	25,747.0	99.4%
Upward Street Side:	73.6	0.3%
Upward House Side:	80.7	0.3%
Upward Total:	154.3	0.6%
Total Lumens:	25,901.3	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.1%	25,411.0	166.7	158.1
Beam (50%):	78.1%	20,233.0	153.3	111.4
Total:	99.9%	25,887.9		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	5,396.8	20.8%	20.8%
0-40	9,257.9	35.7%	35.7%
0-60	18,102.6	69.9%	69.9%
60-90	7,642.9	29.5%	29.5%
70-100	3,714.0	14.3%	14.3%
90-120	83.3	0.3%	0.3%
0-90	25,745.5	99.4%	99.4%
90-180	154.3	0.6%	0.6%
0-180	25,899.8	100%	100%

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	623.8	2.4%	90-100	33.9	0.1%	
10-20	1,834.1	7.1%	100-110	26.0	0.1%	
20-30	2,938.9	11.3%	110-120	23.4	0.1%	
30-40	3,861.1	14.9%	120-130	19.2	0.1%	
40-50	4,414.0	17.0%	130-140	16.9	0.1%	
50-60	4,430.7	17.1%	140-150	14.7	0.1%	
60-70	3,962.8	15.3%	150-160	11.1	0%	
70-80	2,910.9	11.2%	160-170	6.8	0%	
80-90	769.2	3.0%	170-180	2.2	0%	



**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	1.01	1.01	1.01	.99
1	1.07	1.01	.96	.92	1.04	.99	.95	.81	.95	.91	.87	.87	.91	.87	.85	.85	.87	.84	.82	.82	.87	.84	.82	.80
2	.96	.87	.79	.72	.93	.85	.78	.66	.81	.75	.70	.70	.77	.72	.68	.68	.74	.70	.66	.66	.74	.70	.66	.64
3	.87	.75	.66	.59	.84	.73	.65	.54	.70	.63	.57	.57	.67	.61	.56	.56	.64	.59	.55	.55	.64	.59	.55	.52

4	.79	.66	.56	.49	.76	.64	.55	.46	.61	.54	.47	.59	.52	.47	.57	.51	.46	.44
5	.72	.58	.48	.41	.70	.57	.48	.39	.54	.46	.40	.52	.45	.40	.50	.44	.39	.37
6	.66	.52	.42	.35	.64	.51	.42	.34	.49	.41	.35	.47	.40	.34	.45	.39	.34	.32
7	.61	.47	.37	.31	.59	.46	.37	.30	.44	.36	.30	.43	.35	.30	.41	.35	.30	.28
8	.57	.42	.33	.27	.55	.42	.33	.26	.40	.32	.27	.39	.32	.27	.38	.31	.26	.24
9	.53	.39	.30	.24	.51	.38	.30	.23	.37	.29	.24	.36	.29	.24	.35	.28	.24	.22
10	.49	.36	.27	.22	.48	.35	.27	.21	.34	.27	.22	.33	.26	.21	.32	.26	.21	.19

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545	6545
1	6612	6598	6587	6559	6531	6513	6499	6483	6487	6488	6507	6535	6553	6569	6594	6606	6612
2	6671	6650	6628	6577	6520	6483	6457	6428	6427	6433	6460	6518	6561	6602	6645	6657	6671
3	6725	6704	6669	6596	6510	6456	6411	6366	6367	6380	6421	6507	6564	6634	6694	6715	6725
4	6775	6759	6716	6619	6505	6425	6361	6302	6307	6319	6378	6492	6569	6669	6740	6779	6775
5	6825	6805	6752	6641	6503	6396	6311	6238	6246	6260	6340	6468	6577	6701	6788	6842	6825
6	6869	6858	6785	6663	6504	6365	6251	6172	6186	6204	6303	6445	6584	6726	6840	6884	6869
7	6921	6898	6811	6674	6495	6332	6209	6107	6123	6149	6265	6423	6595	6758	6876	6932	6921
8	6965	6950	6838	6689	6489	6299	6148	6048	6062	6087	6221	6405	6601	6792	6931	6976	6965
9	7012	6991	6869	6707	6471	6269	6100	5985	5989	6027	6190	6390	6612	6823	6976	7019	7012
10	7057	7033	6900	6714	6459	6234	6051	5923	5922	5969	6149	6380	6622	6852	7020	7063	7057
11	7098	7073	6917	6721	6446	6200	5991	5862	5841	5911	6107	6367	6628	6881	7061	7116	7098
12	7138	7109	6949	6733	6434	6167	5943	5795	5773	5842	6062	6348	6627	6904	7100	7167	7138
13	7184	7147	6977	6741	6417	6135	5899	5718	5703	5782	6011	6326	6629	6938	7140	7204	7184
14	7225	7179	7003	6752	6410	6104	5841	5657	5634	5725	5961	6303	6623	6961	7184	7247	7225
15	7268	7213	7024	6762	6399	6064	5788	5593	5564	5659	5916	6279	6617	6985	7223	7285	7268
16	7311	7245	7049	6774	6388	6027	5727	5526	5498	5593	5874	6251	6620	7012	7261	7327	7311
17	7348	7275	7064	6782	6371	5995	5674	5460	5423	5532	5836	6224	6623	7028	7299	7369	7348
18	7381	7303	7094	6791	6362	5962	5621	5397	5346	5468	5785	6193	6628	7055	7329	7404	7381
19	7412	7334	7120	6803	6349	5926	5561	5320	5276	5402	5737	6164	6635	7084	7358	7437	7412
20	7456	7364	7145	6809	6344	5892	5511	5249	5198	5332	5688	6139	6641	7113	7386	7470	7456
21	7483	7390	7167	6825	6332	5862	5461	5180	5127	5267	5637	6119	6645	7151	7423	7510	7483
22	7512	7417	7186	6834	6323	5820	5404	5102	5055	5198	5579	6091	6646	7178	7454	7544	7512
23	7533	7436	7199	6847	6318	5786	5341	5035	4973	5126	5527	6076	6659	7206	7490	7574	7533
24	7553	7456	7228	6859	6312	5749	5285	4957	4895	5063	5480	6044	6662	7242	7534	7600	7553
25	7575	7476	7255	6879	6304	5712	5229	4879	4813	4989	5433	6024	6658	7272	7568	7626	7575
26	7596	7493	7277	6880	6289	5683	5167	4804	4719	4922	5382	6010	6660	7307	7607	7650	7596
27	7617	7511	7305	6895	6265	5653	5107	4735	4634	4849	5336	5996	6663	7343	7642	7678	7617
28	7631	7528	7321	6908	6239	5623	5053	4656	4542	4768	5283	5971	6669	7384	7691	7703	7631
29	7632	7544	7350	6928	6220	5587	4996	4576	4449	4696	5229	5952	6681	7424	7728	7722	7632
30	7634	7559	7374	6931	6206	5563	4945	4483	4351	4621	5180	5933	6689	7467	7763	7739	7634
31	7621	7569	7395	6949	6196	5538	4886	4401	4257	4532	5130	5913	6704	7501	7802	7749	7621
32	7598	7559	7418	6962	6181	5502	4821	4313	4154	4445	5073	5898	6708	7538	7840	7748	7598
33	7562	7556	7445	6978	6177	5476	4763	4225	4060	4360	5025	5883	6721	7580	7882	7741	7562
34	7519	7544	7479	7004	6174	5449	4701	4129	3957	4273	4962	5863	6738	7616	7919	7722	7519
35	7466	7516	7513	7023	6176	5417	4641	4037	3852	4185	4900	5847	6746	7656	7961	7703	7466
36	7412	7489	7523	7042	6165	5378	4581	3942	3760	4090	4848	5816	6747	7691	7992	7678	7412
37	7339	7444	7544	7068	6171	5348	4508	3855	3655	4002	4782	5786	6752	7730	8025	7637	7339
38	7252	7396	7563	7087	6161	5311	4441	3762	3553	3919	4725	5752	6753	7766	8046	7585	7252
39	7153	7336	7580	7108	6156	5284	4376	3670	3464	3827	4651	5726	6755	7801	8066	7521	7153
40	7020	7263	7595	7141	6151	5248	4300	3568	3371	3737	4585	5693	6756	7840	8086	7455	7020
41	6886	7180	7610	7171	6140	5210	4223	3482	3282	3648	4510	5667	6762	7869	8095	7367	6886
42	6741	7071	7611	7189	6127	5172	4147	3397	3177	3557	4437	5629	6761	7902	8105	7272	6741
43	6588	6971	7598	7214	6124	5143	4071	3303	3104	3477	4352	5589	6768	7938	8101	7161	6588
44	6402	6837	7576	7237	6113	5101	3985	3219	3024	3385	4277	5559	6762	7958	8083	7039	6402
45	6209	6700	7558	7263	6098	5064	3909	3139	2952	3301	4193	5522	6760	7988	8051	6900	6209
46	5985	6534	7525	7283	6088	5024	3831	3065	2877	3222	4113	5491	6759	8012	8033	6728	5985

47	5761	6351	7492	7304	6079	4984	3741	2986	2803	3147	4028	5451	6753	8041	7990	6564	5761
48	5526	6162	7449	7328	6059	4947	3662	2919	2736	3070	3934	5413	6752	8076	7949	6369	5526
49	5291	5965	7401	7359	6052	4903	3575	2846	2676	2999	3853	5375	6749	8104	7902	6145	5291
50	5036	5737	7334	7382	6045	4857	3492	2780	2621	2936	3764	5330	6737	8130	7842	5933	5036
51	4793	5513	7261	7411	6045	4811	3408	2721	2563	2869	3678	5284	6733	8154	7766	5710	4793
52	4540	5269	7177	7437	6045	4767	3324	2655	2500	2804	3586	5234	6728	8183	7691	5481	4540
53	4296	5020	7079	7462	6047	4710	3240	2600	2438	2737	3488	5180	6728	8209	7587	5216	4296
54	4062	4773	6960	7485	6038	4655	3164	2534	2389	2680	3409	5129	6721	8232	7483	4970	4062
55	3853	4532	6844	7502	6019	4586	3094	2473	2336	2617	3324	5064	6724	8250	7354	4735	3853
56	3626	4273	6703	7529	6015	4526	3002	2420	2274	2557	3248	4991	6727	8274	7228	4471	3626
57	3425	4044	6554	7553	6006	4458	2928	2363	2214	2494	3158	4913	6725	8287	7065	4226	3425
58	3203	3784	6383	7590	5999	4385	2852	2306	2163	2436	3066	4838	6721	8311	6907	3982	3203
59	3018	3552	6201	7609	5970	4310	2779	2247	2108	2378	2980	4759	6708	8333	6732	3749	3018
60	2832	3341	6006	7634	5961	4215	2710	2183	2047	2298	2897	4676	6698	8353	6540	3534	2832
61	2668	3150	5815	7651	5949	4131	2630	2131	1982	2239	2817	4570	6692	8373	6329	3314	2668
62	2513	2935	5582	7669	5942	4038	2554	2065	1918	2159	2730	4466	6683	8378	6125	3115	2513
63	2369	2757	5359	7687	5939	3932	2479	1994	1846	2090	2647	4358	6669	8393	5874	2923	2369
64	2204	2567	5099	7700	5938	3823	2396	1924	1778	2014	2559	4237	6651	8412	5631	2732	2204
65	2070	2394	4858	7722	5929	3715	2319	1843	1699	1930	2465	4104	6638	8422	5389	2553	2070
66	1946	2237	4607	7741	5930	3605	2222	1762	1613	1841	2372	3961	6629	8433	5144	2368	1946
67	1814	2092	4372	7768	5930	3485	2132	1670	1524	1759	2266	3821	6612	8443	4879	2210	1814
68	1701	1944	4107	7806	5932	3345	2038	1586	1408	1656	2166	3682	6598	8443	4635	2069	1701
69	1578	1794	3868	7838	5937	3220	1945	1480	1307	1555	2062	3541	6558	8456	4351	1925	1578
70	1475	1674	3620	7876	5937	3093	1836	1353	1162	1433	1940	3377	6493	8473	4086	1785	1475
71	1374	1558	3357	7905	5907	2947	1731	1220	961	1298	1826	3209	6392	8477	3836	1660	1374
72	1280	1455	3127	7901	5849	2796	1622	1124	799	1185	1715	3044	6260	8474	3599	1542	1280
73	1170	1341	2913	7888	5746	2609	1502	1026	670	1083	1596	2864	6066	8435	3340	1435	1170
74	1071	1244	2672	7834	5618	2412	1376	923	599	982	1467	2656	5794	8365	3106	1332	1071
75	975	1136	2446	7739	5435	2210	1224	789	535	866	1323	2433	5455	8224	2861	1216	975
76	879	1045	2226	7615	5192	2010	1092	674	482	747	1179	2217	5072	8029	2624	1119	879
77	790	943	2020	7436	4887	1803	971	577	436	632	1059	1999	4674	7768	2374	1022	790
78	695	872	1812	7161	4437	1620	846	498	392	542	936	1795	4218	7474	2146	925	695
79	637	786	1585	6736	3962	1452	726	428	358	466	818	1598	3672	7132	1928	847	637
80	560	700	1371	6212	3427	1274	631	369	317	400	705	1427	3160	6653	1680	765	560
81	479	624	1117	5508	2787	1094	543	323	282	357	607	1259	2589	6062	1418	674	479
82	416	546	902	4669	2208	919	451	268	240	294	519	1091	2010	5332	1167	597	416
83	351	478	710	3684	1638	735	338	230	209	253	429	904	1420	4452	940	517	351
84	291	402	556	2722	1117	539	242	186	171	210	306	711	949	3462	743	448	291
85	224	305	409	1827	708	361	167	141	145	162	233	514	600	2448	560	350	224
86	167	211	288	1000	406	216	115	102	107	127	158	344	352	1521	383	258	167
87	101	136	152	429	226	123	62	69	85	89	101	199	179	857	234	162	101
88	68	72	65	116	110	61	47	54	59	67	45	114	83	359	112	89	68
89	47	46	39	50	23	33	27	34	38	52	46	69	39	98	54	51	47
90	51	41	33	52	33	30	26	38	32	31	39	46	31	48	24	48	51
91	44	37	40	39	29	12	23	38	28	40	41	46	33	41	39	41	44
92	45	44	32	38	25	24	27	35	35	38	35	42	23	35	40	43	45
93	44	36	30	37	25	22	22	32	35	41	32	43	22	35	31	46	44
94	48	38	25	32	21	23	26	28	32	34	35	43	25	20	33	38	48
95	41	32	25	35	21	25	23	30	30	32	32	34	19	25	29	34	41

96	48	34	18	27	20	26	28	28	25	35	35	41	22	26	30	37	48
97	45	34	25	18	21	23	27	32	33	35	33	36	20	20	21	41	45
98	45	34	24	27	16	18	26	26	32	30	36	31	16	18	26	34	45
99	41	33	24	26	20	23	20	28	29	30	34	37	14	21	24	39	41
100	44	35	15	21	15	19	22	28	24	31	25	34	18	21	21	41	44
101	32	34	22	21	12	24	21	32	24	35	35	33	15	18	25	25	32
102	35	29	16	24	16	23	22	27	23	32	25	37	19	13	24	35	35
103	32	27	23	30	16	22	31	30	30	27	25	39	13	17	27	35	32
104	42	32	21	22	13	18	28	28	27	34	32	36	14	18	18	38	42
105	33	33	16	24	15	20	18	27	29	27	27	35	11	11	25	36	33
106	34	31	24	23	14	17	26	26	31	24	25	38	12	13	18	39	34
107	41	29	15	28	12	20	27	25	32	31	18	27	11	0	20	35	41
108	31	25	18	20	14	25	28	28	27	32	29	27	0	12	17	30	31
109	39	23	15	26	0	21	23	29	31	30	32	34	0	14	22	21	39
110	37	27	13	20	14	24	23	28	34	29	29	32	12	11	15	31	37
111	41	25	17	27	13	20	26	31	36	24	28	32	0	0	20	33	41
112	43	26	22	20	11	20	21	19	37	28	31	31	11	0	18	34	43
113	40	26	19	21	11	28	20	34	34	26	34	25	12	12	13	33	40
114	44	29	18	21	14	28	27	31	35	31	31	37	0	0	20	28	44
115	35	28	20	23	16	20	29	29	36	15	23	32	14	15	18	23	35
116	39	26	13	23	0	14	18	34	32	34	28	30	0	13	21	32	39
117	34	24	18	23	0	14	25	27	37	32	31	30	12	13	21	30	34
118	42	22	21	21	0	23	24	26	38	33	29	27	14	14	17	33	42
119	35	29	17	21	14	24	21	31	37	32	30	31	11	0	23	30	35
120	38	28	20	27	0	17	19	30	35	31	27	29	0	14	25	26	38
121	37	24	15	18	0	23	26	30	34	28	26	31	13	0	21	31	37
122	43	22	19	17	0	20	24	32	22	34	26	24	0	11	19	31	43
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**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Shenzhen Belling Test Laboratory  
[ISSUE DATE] 2018-5-24 13:53  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SB7-4000-200-T3-200V  
[\_TOTALLUMINAIRELUMENS] 25899.8  
[VOLTAGE] 200.0 V  
[CURRENT] 1.015 A  
[POWERFACTOR] 0.994  
[TESTINST] GPM-3000  
[TESTDIST] 17.398 M  
[TESTTEMPERATURE] 29.3 'C  
[TESTHUMIDITY]  
[TESTOPERATOR]  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17  
FILE: COORDINATE SYSTEM: TYPE C  
FILE: UNIT OF MEASURE: METRIC  
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.