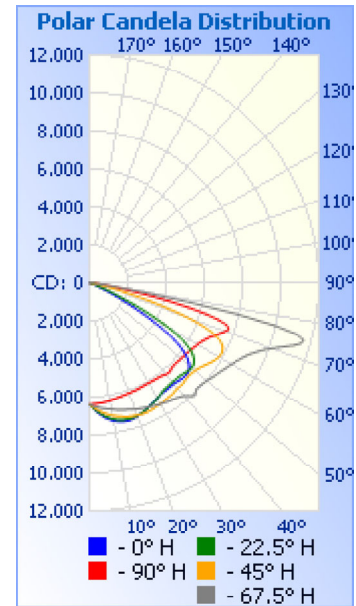


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SBN 185W - 277V  
**Manufacturer:** SARIN Energy Inc.  
**Luminaire:** SES-SBN-3000-185 277V  
**Lamp Output:** Total luminaire Lumens: 24922.7  
**Max Candela:** 11,585.0 at Horizontal: 67.5°, Vertical: 75°  
**Input Wattage:** 180  
**Luminous Opening:** Point  
**Test Date:** 2016-10-09  
**Test Lab:** Standard-Tech Co. Ltd  
**Photometry :** Type C  
**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	10.2	
Max Cd, 80 to <90 Deg:	2,940.9	
	Lumens	% Lamp
Downward Street Side:	16,848.4	67.6%
Downward House Side:	8,022.7	32.2%
Downward Total:	24,871.1	99.8%
Upward Street Side:	19.6	0.1%
Upward House Side:	33.7	0.1%
Upward Total:	53.3	0.2%
Total Lumens:	24,924.4	100%

### Flood Summary

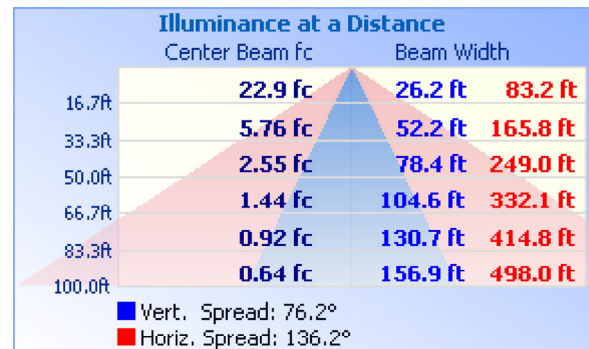
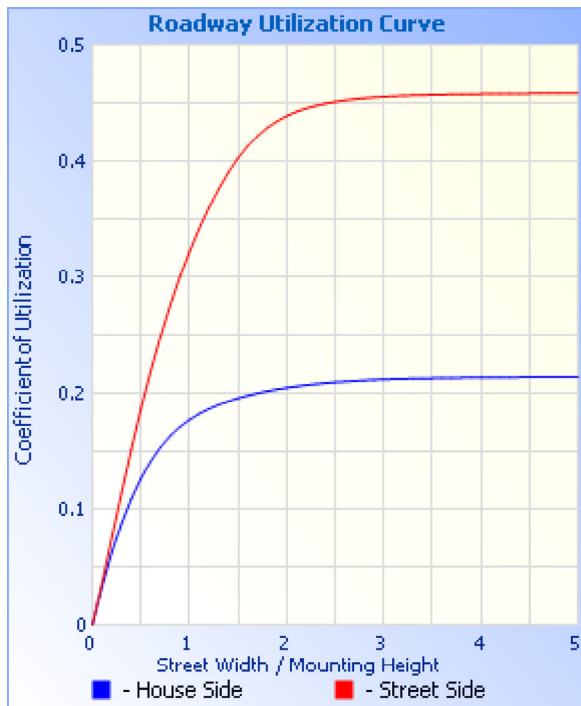
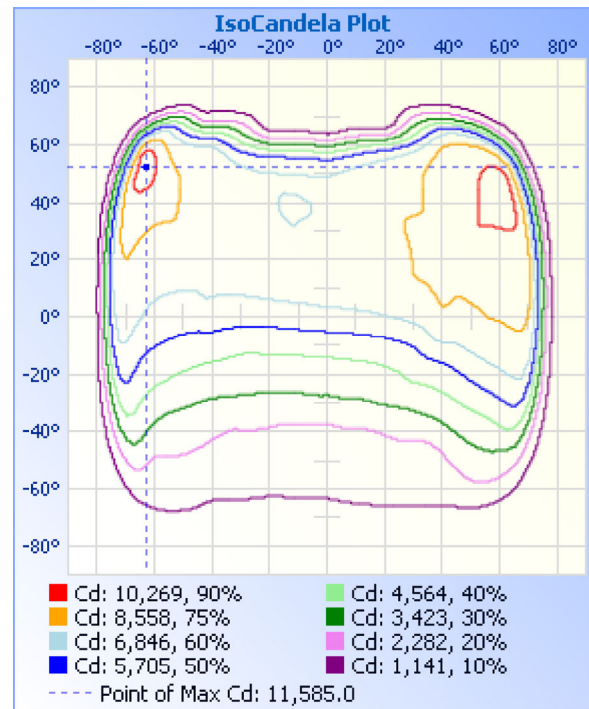
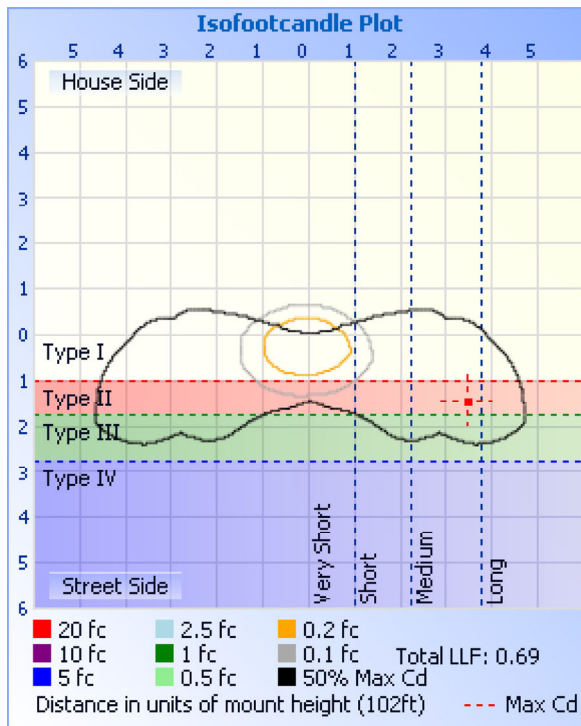
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.6%	24,330.4	146.4	136.2
Beam (50%):	70%	17,458.2	136.2	76.2
Total:	100%	24,914.0		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	5,096.8	20.5%
0-40	8,700.1	34.9%
0-60	17,762.2	71.3%
60-90	7,107.3	28.5%
70-100	2,689.5	10.8%
90-120	21.2	0.1%
0-90	24,869.4	99.8%
90-180	53.3	0.2%
0-180	24,922.7	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	604.2	2.4%	90-100	4.8	0%
10-20	1,745.7	7.0%	100-110	7.3	0%
20-30	2,746.9	11.0%	110-120	9.1	0%
30-40	3,603.3	14.5%	120-130	9.2	0%
40-50	4,306.1	17.3%	130-140	7.9	0%
50-60	4,756.0	19.1%	140-150	6.2	0%
60-70	4,422.5	17.7%	150-160	4.7	0%
70-80	2,536.6	10.2%	160-170	3.0	0%
80-90	148.1	0.6%	170-180	1.2	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	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.08	1.03	.98	.94	1.05	1.00	.96	.83	.96	.93	.89	.92	.89	.87	.88	.86	.84	.82
2	.97	.88	.80	.74	.94	.86	.79	.67	.82	.76	.71	.79	.74	.69	.76	.71	.68	.66
3	.87	.76	.67	.59	.85	.74	.66	.55	.71	.64	.58	.68	.62	.57	.65	.60	.56	.53

4	.79	.66	.56	.49	.77	.65	.56	.46	.62	.54	.48	.59	.53	.47	.57	.51	.46	.44
5	.72	.58	.48	.41	.70	.57	.48	.39	.55	.47	.40	.53	.46	.40	.51	.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	.41	.33	.26	.40	.32	.27	.39	.32	.26	.38	.31	.26	.24
9	.53	.38	.30	.24	.51	.38	.30	.23	.37	.29	.24	.36	.29	.24	.34	.28	.23	.21
10	.49	.35	.27	.21	.48	.35	.27	.21	.34	.26	.21	.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	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386	6386
1	6514	6501	6472	6428	6375	6332	6287	6259	6252	6267	6301	6343	6395	6441	6484	6508	6514
2	6637	6613	6555	6472	6365	6274	6182	6128	6114	6145	6211	6300	6406	6498	6580	6625	6637
3	6756	6718	6637	6513	6356	6216	6081	5998	5976	6023	6120	6255	6414	6558	6673	6735	6756
4	6866	6821	6714	6551	6345	6157	5973	5860	5834	5892	6027	6208	6424	6617	6763	6838	6866
5	6968	6914	6787	6585	6332	6091	5865	5724	5690	5761	5933	6159	6434	6675	6849	6937	6968
6	7064	7001	6854	6615	6319	6027	5757	5589	5548	5628	5836	6111	6446	6736	6935	7030	7064
7	7149	7078	6916	6645	6306	5962	5647	5455	5406	5498	5737	6064	6460	6793	7019	7116	7149
8	7225	7148	6976	6674	6294	5896	5540	5322	5268	5370	5643	6020	6476	6856	7098	7198	7225
9	7291	7210	7028	6704	6280	5830	5432	5194	5131	5246	5549	5978	6494	6918	7177	7273	7291
10	7350	7267	7076	6737	6263	5759	5324	5066	5001	5125	5456	5935	6509	6975	7252	7344	7350
11	7400	7313	7119	6772	6245	5688	5214	4942	4871	5009	5365	5893	6528	7036	7321	7402	7400
12	7440	7355	7160	6808	6230	5616	5106	4817	4746	4894	5276	5852	6547	7093	7383	7456	7440
13	7470	7384	7202	6838	6215	5547	4997	4701	4629	4779	5189	5812	6565	7156	7445	7503	7470
14	7494	7406	7242	6863	6200	5478	4896	4586	4515	4671	5100	5773	6586	7221	7504	7543	7494
15	7510	7421	7279	6893	6186	5411	4800	4477	4409	4570	5016	5729	6615	7286	7558	7578	7510
16	7510	7432	7310	6923	6174	5341	4702	4377	4309	4476	4935	5684	6644	7351	7610	7606	7510
17	7501	7439	7333	6957	6163	5277	4607	4282	4213	4388	4856	5640	6670	7413	7660	7627	7501
18	7484	7437	7353	6986	6155	5214	4516	4192	4125	4307	4777	5602	6696	7483	7709	7640	7484
19	7461	7426	7373	7020	6143	5154	4429	4108	4042	4231	4699	5561	6720	7556	7756	7641	7461
20	7428	7410	7395	7056	6136	5087	4351	4025	3962	4153	4627	5521	6746	7622	7799	7635	7428
21	7389	7383	7411	7086	6131	5029	4273	3946	3884	4078	4562	5483	6781	7684	7839	7620	7389
22	7347	7347	7418	7110	6125	4970	4199	3868	3811	4005	4498	5454	6815	7751	7876	7602	7347
23	7312	7311	7421	7136	6120	4912	4129	3793	3738	3935	4436	5421	6852	7819	7906	7589	7312
24	7279	7284	7419	7167	6115	4851	4062	3719	3665	3868	4376	5387	6885	7885	7932	7574	7279
25	7238	7250	7416	7195	6106	4787	4000	3649	3587	3801	4317	5358	6920	7963	7958	7550	7238
26	7191	7200	7414	7225	6102	4728	3937	3571	3506	3732	4266	5328	6957	8043	7989	7521	7191
27	7146	7152	7405	7255	6098	4677	3871	3491	3421	3660	4214	5299	6999	8121	8014	7492	7146
28	7104	7112	7386	7287	6093	4623	3810	3411	3329	3581	4163	5272	7051	8195	8034	7469	7104
29	7069	7076	7366	7319	6085	4570	3752	3328	3220	3507	4118	5253	7099	8268	8056	7446	7069
30	7032	7036	7353	7346	6085	4522	3699	3230	3111	3429	4070	5234	7147	8349	8080	7433	7032
31	6986	6993	7342	7374	6092	4476	3641	3133	3001	3352	4042	5220	7201	8427	8103	7415	6986
32	6946	6942	7325	7401	6103	4430	3584	3035	2883	3252	4024	5224	7268	8507	8131	7395	6946
33	6915	6896	7306	7441	6107	4396	3530	2931	2762	3152	4012	5266	7331	8588	8169	7377	6915
34	6899	6855	7292	7469	6117	4369	3472	2822	2639	3051	3964	5337	7406	8680	8207	7359	6899
35	6895	6823	7283	7493	6126	4356	3406	2710	2514	2936	3889	5379	7520	8775	8249	7353	6895
36	6897	6807	7277	7525	6137	4325	3339	2594	2389	2823	3817	5382	7673	8864	8300	7356	6897
37	6895	6794	7261	7570	6148	4279	3271	2480	2276	2708	3745	5358	7872	8985	8351	7341	6895
38	6889	6782	7234	7612	6176	4246	3196	2368	2169	2594	3670	5295	8067	9143	8399	7325	6889
39	6884	6775	7209	7660	6214	4200	3120	2258	2067	2477	3587	5221	8202	9421	8476	7314	6884
40	6887	6773	7190	7730	6253	4156	3044	2154	1972	2369	3516	5167	8261	9785	8599	7306	6887
41	6903	6777	7191	7847	6275	4112	2964	2055	1891	2266	3438	5134	8229	10076	8721	7312	6903
42	6927	6781	7197	8000	6274	4072	2881	1965	1818	2171	3351	5112	8112	10161	8778	7319	6927
43	6947	6781	7195	8073	6241	4033	2789	1884	1753	2087	3252	5092	8040	9896	8739	7336	6947
44	6969	6790	7159	7984	6199	3994	2696	1812	1695	2011	3152	5082	8027	9647	8671	7348	6969
45	6985	6815	7143	7894	6178	3959	2604	1748	1645	1946	3053	5067	8040	9574	8599	7354	6985
46	6996	6845	7131	7887	6181	3924	2509	1691	1597	1882	2947	5055	8069	9571	8518	7376	6996

47	6988	6881	7117	7901	6180	3885	2411	1640	1555	1826	2836	5042	8117	9602	8479	7405	6988
48	6959	6909	7133	7924	6190	3849	2319	1594	1516	1774	2726	5026	8173	9633	8482	7436	6959
49	6902	6936	7158	7961	6207	3815	2228	1549	1484	1725	2616	5020	8227	9685	8501	7462	6902
50	6810	6950	7184	8002	6224	3781	2140	1510	1457	1679	2506	5001	8291	9736	8529	7485	6810
51	6684	6947	7222	8039	6238	3749	2058	1474	1440	1634	2402	4982	8338	9790	8579	7500	6684
52	6513	6919	7269	8090	6251	3708	1982	1437	1435	1595	2303	4971	8379	9844	8628	7484	6513
53	6302	6846	7319	8138	6269	3668	1909	1401	1432	1562	2214	4946	8423	9900	8678	7444	6302
54	6043	6746	7393	8182	6297	3627	1842	1369	1423	1528	2130	4912	8471	9953	8730	7369	6043
55	5728	6599	7471	8238	6321	3584	1780	1339	1402	1500	2059	4875	8519	10001	8792	7257	5728
56	5353	6400	7546	8295	6345	3537	1725	1313	1372	1475	1989	4830	8565	10068	8874	7105	5353
57	4902	6144	7620	8358	6381	3491	1676	1289	1341	1455	1928	4772	8604	10139	8947	6907	4902
58	4372	5833	7696	8422	6417	3436	1630	1268	1311	1434	1870	4713	8638	10218	9024	6658	4372
59	3798	5445	7761	8495	6467	3368	1587	1247	1277	1417	1815	4645	8676	10286	9094	6348	3798
60	3186	4971	7810	8567	6512	3301	1551	1227	1247	1399	1767	4567	8719	10344	9155	5945	3186
61	2602	4416	7836	8644	6551	3206	1510	1205	1216	1379	1722	4473	8768	10413	9220	5449	2602
62	2080	3820	7841	8721	6607	3112	1476	1184	1180	1355	1677	4382	8828	10493	9257	4863	2080
63	1592	3182	7812	8832	6673	3017	1437	1157	1143	1328	1633	4295	8890	10570	9270	4189	1592
64	1233	2516	7755	8934	6758	2915	1403	1130	1100	1294	1591	4200	8941	10636	9248	3428	1233
65	875	1900	7644	9057	6850	2812	1368	1100	1052	1251	1550	4084	8996	10731	9186	2652	875
66	621	1475	7470	9196	6954	2719	1329	1062	993	1197	1512	3966	9034	10845	9061	1897	621
67	485	1054	7224	9387	7085	2628	1290	1020	924	1131	1473	3846	9035	10977	8876	1441	485
68	424	634	6877	9575	7221	2536	1251	968	849	1054	1430	3697	8992	11104	8621	991	424
69	387	463	6406	9800	7377	2439	1213	908	766	962	1377	3534	8830	11221	8284	540	387
70	358	386	5803	10094	7517	2348	1175	837	605	857	1308	3314	8418	11266	7824	427	358
71	331	344	5083	10435	7635	2255	1132	756	434	742	1222	3095	7717	11149	7223	374	331
72	306	311	4282	10811	7646	2164	1081	668	350	625	1118	2875	6754	10736	6481	336	306
73	279	281	3416	11210	7472	2075	1018	576	302	516	994	2613	5558	9884	5576	305	279
74	257	256	2592	11524	7042	1981	944	475	265	407	856	2320	4262	8571	4565	279	257
75	240	233	1877	11585	6330	1886	853	342	246	300	711	1993	3014	6864	3528	255	240
76	224	213	1478	11167	5347	1777	747	238	233	224	572	1657	2003	4957	2579	233	224
77	204	194	1085	9943	4265	1648	632	177	221	177	441	1303	1488	3174	1790	211	204
78	181	177	692	7900	3183	1474	489	149	211	152	282	981	975	1788	1342	192	181
79	161	165	503	5350	2100	1266	266	132	197	134	172	704	463	1277	901	176	161
80	141	150	373	2941	1291	1036	148	119	173	121	139	490	281	779	461	159	141
81	121	132	293	1331	752	808	126	107	141	108	122	344	188	282	304	138	121
82	103	111	230	820	449	612	108	97	118	97	106	245	138	216	218	113	103
83	85	90	189	339	290	440	93	88	103	89	91	169	108	180	172	93	85
84	69	74	149	243	189	200	79	81	94	82	77	92	87	153	136	75	69
85	55	62	118	193	119	78	66	73	83	74	63	67	69	123	104	63	55
86	41	51	88	154	78	58	53	64	68	65	50	53	53	96	77	51	41
87	23	33	66	113	51	43	41	51	48	48	37	40	37	71	55	30	23
88	7	16	37	62	26	23	22	30	29	28	20	23	18	36	24	11	7
89	1	1	7	18	8	6	3	2	3	4	4	9	8	10	6	1	1
90	0	0	3	10	7	6	3	0	0	0	3	10	8	7	5	1	0
91	0	0	3	9	7	6	3	0	0	0	3	10	8	6	4	1	0
92	0	0	3	8	7	7	3	0	0	0	4	11	8	6	3	1	0
93	0	0	2	7	7	8	4	0	0	0	4	12	9	5	3	1	0
94	0	0	2	7	7	8	5	0	0	0	5	12	10	5	3	0	0
95	0	0	2	7	8	9	5	0	0	0	5	13	10	5	2	0	0

96	0	0	2	6	8	10	6	0	0	0	6	14	11	4	2	1	0
97	0	0	2	6	9	11	7	0	0	1	6	14	11	4	2	0	0
98	0	0	2	6	10	12	8	1	0	1	7	14	12	4	2	0	0
99	0	1	2	6	10	13	9	1	0	1	7	14	12	4	2	0	0
100	0	1	2	6	11	14	9	1	0	1	8	14	12	5	2	1	0
101	0	1	2	6	11	14	10	2	0	1	8	14	13	5	2	1	0
102	1	1	2	7	12	15	10	2	1	2	9	14	13	5	2	1	1
103	1	1	2	7	13	15	10	3	1	2	9	14	14	5	2	1	1
104	1	1	2	7	13	16	11	4	1	3	10	15	14	6	2	1	1
105	1	1	2	8	14	16	11	4	2	3	10	15	15	6	2	1	1
106	1	1	3	8	14	16	12	4	2	4	11	15	15	7	2	1	1
107	1	1	3	8	15	16	12	5	2	5	11	15	15	7	2	1	1
108	1	1	3	9	15	16	12	6	3	5	11	16	16	7	2	1	1
109	1	2	3	9	16	16	12	6	3	6	11	17	16	7	2	1	1
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111	1	2	3	10	16	17	12	7	4	7	11	19	16	8	2	1	1
112	1	2	3	10	16	18	12	7	4	7	11	19	17	8	3	1	1
113	2	2	4	10	16	19	13	7	5	7	11	19	16	8	3	1	2
114	2	2	4	11	16	20	13	7	5	7	11	19	16	8	3	2	2
115	2	2	4	11	16	20	13	7	6	7	12	18	16	8	3	2	2
116	2	2	4	11	16	20	14	7	6	7	12	18	17	8	3	2	2
117	2	2	5	11	17	20	14	7	6	7	12	18	17	9	4	2	2
118	2	2	5	11	16	20	15	7	6	7	13	18	17	9	4	2	2
119	2	2	5	11	16	20	16	8	6	7	13	17	17	9	4	2	2
120	2	2	5	12	16	20	16	8	6	8	13	17	17	9	4	2	2
121	2	3	5	12	16	20	16	9	7	8	13	16	17	9	4	3	2
122	3	3	5	12	16	20	15	9	7	9	13	15	17	9	4	3	3
123	3	3	5	12	16	19	15	10	8	9	12	15	16	9	5	3	3
124	4	4	6	12	16	19	14	11	9	10	12	15	16	9	5	3	4
125	4	4	6	12	16	18	14	12	9	11	12	15	16	9	5	4	4
126	4	4	6	12	16	18	14	12	10	11	12	14	16	9	5	4	4
127	4	4	6	13	16	17	13	13	11	12	12	14	15	9	5	4	4
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### Luminaire Report Summary

IESNA:LM-63-2002  
 [TEST]  
 [TESTDATE] 2016-10-09  
 [TESTLAB] Standard-Tech Co. Ltd  
 [ISSUEDATE] 2016-10-09 16:18:13  
 [MANUFAC] SARIN Energy Inc.  
 [LUMINAIRE] SES-SBN-3000-185 277V  
 [\_LAMPPOSITION] 0,0  
 [\_TOTALLUMINAIRELUMENS] 24922.7  
 [OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 604.18  
 604.18 2.42 2.4210- 20 1745.72 2349.91 9.43 9.4320- 30 2746.85 5096.76 20.45  
 20.4530- 40 3603.73 8700.50 34.91 34.9140- 50 4306.64 13007.14 52.19 52.1950- 60  
 4756.55 17763.68 71.28 71.2860- 70 4421.78 22185.46 89.02 89.0270- 80 2535.66  
 24721.12 99.19 99.1980- 90 148.05 24869.17 99.79 99.7990-100 4.78 24873.95 99.81  
 99.81100-110 7.29 24881.24 99.83 99.83110-120 9.09 24890.33 99.87 99.87120-130  
 9.22 24899.55 99.91 99.91130-140 7.90 24907.45 99.94 99.94140-150 6.16 24913.60  
 99.96 99.96150-160 4.67 24918.27 99.98 99.98160-170 2.98 24921.26 100.00  
 100.00170-180 1.23 24922.49 100.00 100.00

FILE: CREATED USING ABSOLUTE PHOTOMETRY  
 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.