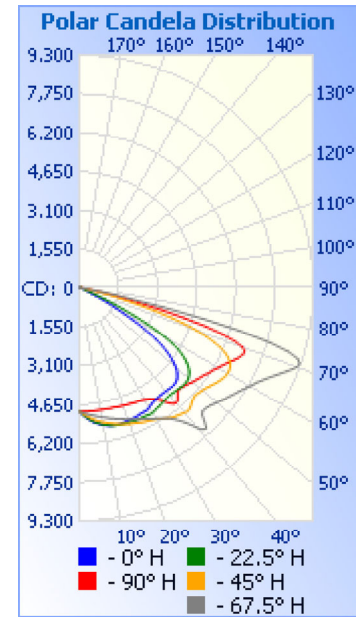


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SBN 150W - 277V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-SBN-4000-150 277V
Lamp Output: Total luminaire Lumens: 19128.4
Max Candela: 9,284.0 at Horizontal: 67.5°, Vertical: 71°
Input Wattage: 146.6
Luminous Opening: Point
Test Date: 2016-08-01
Test Lab: Standard-Tech Co.,Ltd.
Photometry : Type C
Nema Type: 7 X 7

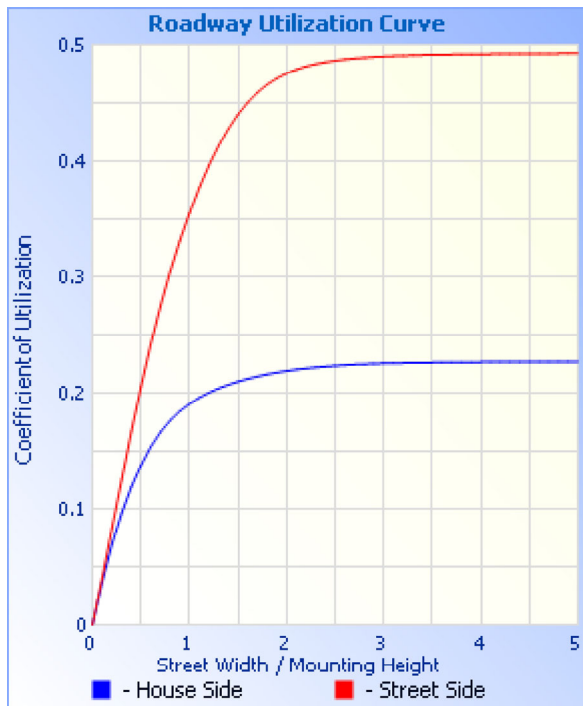
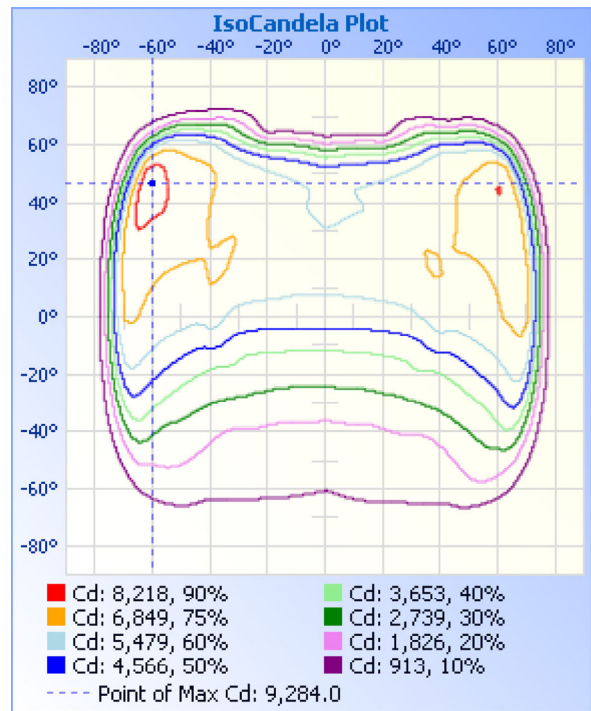
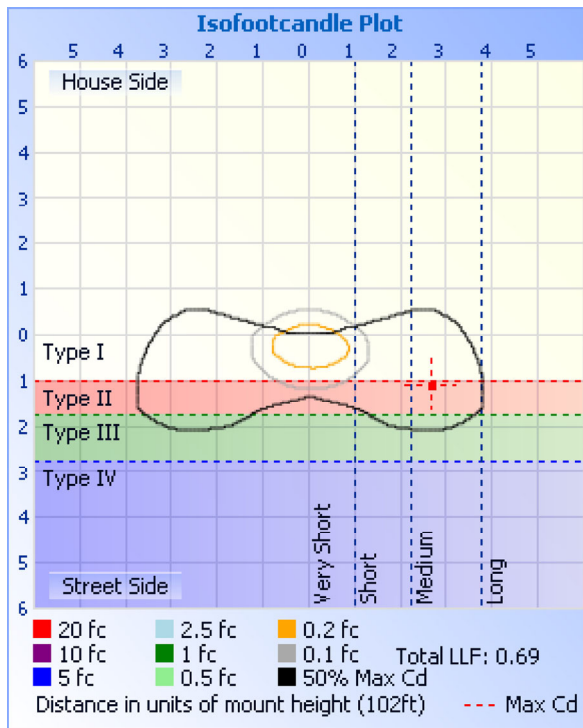


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	5.1	
Max Cd, 80 to <90 Deg:	860.0	
	Lumens	% Lamp
Downward Street Side:	12,872.1	67.3%
Downward House Side:	6,217.1	32.5%
Downward Total:	19,089.2	99.8%
Upward Street Side:	14.3	0.1%
Upward House Side:	26.2	0.1%
Upward Total:	40.5	0.2%
Total Lumens:	19,129.8	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.6%	18,677.0	147.1	131.9
Beam (50%):	69.7%	13,339.0	136.3	81.9
Total:	100%	19,121.5		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	3,909.4	20.4%
0-40	6,748.5	35.3%
0-60	13,850.3	72.4%
60-90	5,237.6	27.4%
70-100	1,758.3	9.2%
90-120	15.2	0.1%
0-90	19,087.9	99.8%
90-180	40.5	0.2%
0-180	19,128.4	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	465.3	2.4%	90-100	2.9	0%
10-20	1,333.5	7.0%	100-110	5.3	0%
20-30	2,110.6	11.0%	110-120	7.0	0%
30-40	2,839.1	14.8%	120-130	7.3	0%
40-50	3,389.5	17.7%	130-140	6.1	0%
50-60	3,712.3	19.4%	140-150	4.8	0%
60-70	3,482.3	18.2%	150-160	3.7	0%
70-80	1,688.3	8.8%	160-170	2.4	0%
80-90	67.0	0.4%	170-180	1.0	0%



Illuminance at a Distance

Center Beam fc	Beam Width	
17.7 fc	29.0 ft	83.2 ft
4.45 fc	57.8 ft	165.9 ft
1.98 fc	86.8 ft	249.2 ft
1.11 fc	115.8 ft	332.4 ft
0.71 fc	144.7 ft	415.1 ft
0.49 fc	173.7 ft	498.3 ft

Vert. Spread: 81.9°
Horiz. Spread: 136.3°

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	.99	.95	1.05	1.01	.97	.83	.96	.93	.90	.92	.90	.87	.89	.87	.84	.82
2	.97	.88	.81	.75	.94	.86	.79	.68	.83	.77	.72	.79	.74	.70	.76	.72	.69	.66
3	.88	.76	.67	.60	.85	.74	.66	.56	.71	.64	.58	.68	.62	.57	.66	.61	.56	.54

4	.79	.66	.57	.50	.77	.65	.56	.47	.62	.55	.48	.60	.53	.48	.58	.52	.47	.45
5	.72	.59	.49	.42	.70	.57	.48	.40	.55	.47	.41	.53	.46	.40	.51	.45	.40	.38
6	.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7	.61	.47	.37	.31	.59	.46	.37	.30	.44	.36	.31	.43	.36	.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	.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	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938	4938
1	5031	5025	5000	4974	4938	4904	4870	4849	4841	4846	4872	4898	4944	4975	5003	5021	5031
2	5118	5107	5061	5007	4939	4865	4798	4753	4733	4749	4800	4860	4949	5012	5067	5102	5118
3	5197	5185	5120	5036	4941	4828	4725	4657	4628	4654	4729	4825	4954	5049	5126	5178	5197
4	5271	5253	5178	5064	4941	4788	4649	4554	4518	4554	4655	4789	4958	5085	5184	5248	5271
5	5337	5313	5230	5094	4942	4748	4568	4445	4402	4449	4576	4751	4962	5118	5239	5307	5337
6	5392	5368	5281	5125	4946	4707	4487	4339	4283	4343	4495	4714	4964	5149	5293	5362	5392
7	5440	5421	5327	5157	4945	4664	4407	4227	4160	4233	4412	4678	4969	5184	5342	5412	5440
8	5489	5470	5370	5185	4944	4619	4323	4116	4042	4125	4328	4639	4973	5217	5387	5456	5489
9	5530	5512	5413	5216	4944	4576	4239	4004	3924	4011	4248	4599	4981	5250	5430	5499	5530
10	5565	5549	5451	5250	4945	4532	4151	3895	3808	3904	4166	4559	4991	5283	5468	5535	5565
11	5596	5584	5487	5282	4949	4486	4063	3789	3695	3795	4086	4518	4998	5316	5505	5569	5596
12	5621	5616	5523	5316	4948	4439	3975	3685	3587	3695	4003	4478	5004	5348	5539	5600	5621
13	5641	5642	5558	5349	4955	4393	3887	3584	3489	3602	3922	4440	5010	5384	5573	5626	5641
14	5657	5663	5593	5381	4964	4344	3805	3489	3396	3509	3841	4399	5018	5419	5602	5645	5657
15	5669	5681	5628	5415	4967	4293	3720	3402	3311	3425	3764	4354	5031	5452	5629	5662	5669
16	5678	5696	5661	5451	4966	4244	3641	3321	3234	3343	3686	4313	5045	5486	5657	5676	5678
17	5675	5705	5694	5485	4981	4197	3565	3247	3156	3270	3613	4269	5057	5516	5684	5685	5675
18	5664	5713	5728	5517	4990	4150	3493	3174	3079	3197	3546	4223	5071	5547	5711	5690	5664
19	5652	5722	5758	5552	5001	4107	3425	3101	3016	3124	3480	4181	5086	5578	5734	5689	5652
20	5642	5726	5786	5589	5011	4061	3360	3041	2954	3059	3413	4139	5103	5617	5754	5689	5642
21	5635	5731	5813	5626	5022	4011	3302	2984	2895	3001	3352	4099	5120	5656	5778	5693	5635
22	5637	5742	5836	5669	5032	3962	3248	2928	2839	2948	3296	4059	5138	5692	5804	5703	5637
23	5632	5757	5862	5712	5040	3917	3197	2870	2784	2894	3241	4023	5157	5729	5835	5708	5632
24	5619	5762	5895	5750	5053	3874	3145	2819	2727	2840	3186	3991	5172	5763	5864	5706	5619
25	5603	5762	5926	5792	5067	3836	3093	2767	2668	2788	3132	3954	5195	5811	5883	5703	5603
26	5589	5753	5955	5842	5080	3800	3043	2710	2607	2736	3089	3919	5221	5854	5894	5697	5589
27	5584	5754	5980	5890	5092	3762	2996	2653	2541	2683	3045	3887	5239	5898	5902	5699	5584
28	5584	5767	6003	5938	5111	3728	2953	2591	2474	2626	3005	3858	5263	5940	5915	5712	5584
29	5572	5784	6033	5985	5132	3700	2916	2533	2403	2571	2972	3833	5292	5984	5943	5717	5572
30	5536	5790	6069	6035	5162	3673	2884	2473	2328	2514	2945	3817	5332	6029	5988	5708	5536
31	5489	5769	6117	6087	5193	3655	2860	2409	2249	2451	2923	3808	5372	6076	6036	5682	5489
32	5449	5733	6174	6146	5237	3650	2840	2339	2166	2385	2906	3807	5419	6127	6082	5647	5449
33	5419	5709	6231	6212	5284	3670	2816	2262	2075	2313	2883	3826	5477	6192	6124	5615	5419
34	5401	5697	6284	6286	5348	3715	2770	2182	1983	2241	2835	3861	5541	6278	6153	5590	5401
35	5386	5670	6339	6381	5428	3749	2709	2098	1888	2166	2775	3878	5621	6376	6178	5569	5386
36	5375	5645	6383	6505	5539	3722	2651	2011	1793	2085	2722	3864	5734	6485	6200	5545	5375
37	5370	5628	6415	6655	5693	3696	2596	1921	1701	2000	2670	3849	5883	6613	6204	5524	5370
38	5369	5611	6441	6821	5849	3644	2534	1832	1614	1912	2616	3805	6037	6747	6200	5506	5369
39	5369	5598	6473	7040	5952	3571	2474	1743	1534	1823	2565	3747	6156	6888	6200	5491	5369
40	5375	5598	6511	7302	5989	3511	2412	1657	1461	1737	2512	3687	6197	7048	6207	5483	5375
41	5382	5603	6544	7505	5957	3469	2348	1582	1396	1657	2460	3641	6161	7200	6219	5485	5382
42	5391	5614	6537	7550	5845	3429	2281	1513	1339	1587	2404	3603	6028	7208	6207	5496	5391
43	5396	5621	6491	7309	5730	3400	2211	1454	1288	1524	2348	3580	5936	6998	6160	5510	5396
44	5400	5629	6425	7032	5675	3373	2137	1402	1243	1469	2290	3558	5917	6797	6101	5522	5400
45	5391	5645	6368	6947	5677	3344	2062	1356	1203	1421	2224	3540	5937	6752	6064	5538	5391
46	5360	5666	6319	6953	5697	3322	1984	1315	1167	1377	2151	3531	5977	6758	6044	5553	5360

47	5311	5677	6302	6982	5732	3301	1908	1278	1135	1335	2074	3521	6019	6786	6045	5554	5311
48	5244	5679	6319	7018	5765	3277	1830	1244	1110	1299	1993	3510	6062	6828	6062	5543	5244
49	5154	5672	6344	7066	5804	3254	1753	1212	1092	1263	1912	3508	6097	6862	6089	5508	5154
50	5039	5647	6374	7127	5856	3234	1683	1183	1082	1229	1832	3500	6144	6897	6128	5458	5039
51	4892	5607	6411	7195	5894	3213	1617	1155	1076	1199	1754	3494	6186	6933	6173	5385	4892
52	4717	5552	6460	7267	5933	3190	1560	1130	1069	1171	1679	3486	6243	6971	6215	5290	4717
53	4511	5467	6512	7321	5979	3166	1509	1104	1056	1146	1610	3468	6300	7010	6262	5168	4511
54	4279	5360	6566	7375	6016	3143	1463	1081	1038	1123	1545	3459	6349	7048	6301	5021	4279
55	4009	5225	6622	7447	6071	3113	1419	1062	1018	1103	1488	3446	6393	7093	6331	4844	4009
56	3695	5061	6680	7517	6136	3083	1382	1045	996	1084	1436	3416	6449	7140	6361	4637	3695
57	3333	4867	6729	7589	6185	3053	1349	1029	974	1068	1389	3390	6510	7187	6385	4393	3333
58	2920	4622	6770	7659	6237	3014	1317	1017	953	1056	1348	3358	6580	7235	6394	4099	2920
59	2474	4324	6800	7753	6304	2966	1286	1005	935	1045	1310	3313	6658	7296	6387	3753	2474
60	2039	3955	6818	7842	6380	2912	1258	992	917	1036	1276	3269	6731	7364	6362	3350	2039
61	1639	3520	6817	7931	6449	2856	1230	979	899	1025	1241	3236	6805	7426	6321	2882	1639
62	1320	3023	6791	8016	6522	2788	1203	964	879	1015	1208	3201	6892	7516	6247	2388	1320
63	1001	2480	6748	8145	6617	2715	1175	948	857	1007	1176	3165	6992	7602	6137	1888	1001
64	741	1937	6657	8272	6707	2641	1150	928	826	993	1144	3129	7099	7706	5974	1505	741
65	536	1528	6523	8416	6811	2564	1121	898	787	965	1117	3075	7205	7819	5751	1123	536
66	402	1119	6342	8563	6906	2486	1093	856	738	923	1096	3026	7322	7941	5463	742	402
67	344	710	6100	8730	6981	2397	1062	804	682	868	1083	2968	7427	8076	5106	514	344
68	313	480	5791	8895	7044	2300	1029	741	620	798	1069	2882	7460	8189	4675	370	313
69	288	355	5416	9069	7054	2196	988	672	549	718	1048	2770	7344	8294	4185	301	288
70	265	298	4964	9226	6902	2094	938	596	423	630	1010	2639	6946	8336	3629	270	265
71	245	267	4446	9284	6553	1983	874	514	307	538	948	2481	6292	8270	3007	245	245
72	226	243	3854	9143	6004	1875	799	433	257	442	866	2288	5372	8055	2351	221	226
73	205	218	3210	8683	5260	1765	714	347	225	346	768	2059	4252	7521	1720	201	205
74	186	196	2536	7875	4311	1634	622	242	202	248	656	1788	3109	6668	1233	183	186
75	172	178	1886	6587	3362	1456	524	165	185	186	536	1493	2123	5413	749	166	172
76	156	160	1448	5056	2416	1247	425	129	168	149	415	1229	1586	4032	464	149	156
77	138	142	1015	3429	1718	1062	315	111	155	124	304	968	1061	2669	341	134	138
78	119	126	582	2014	1135	863	218	96	140	103	176	728	537	1533	271	120	119
79	102	111	393	1430	706	676	137	84	119	88	115	520	317	953	209	107	102
80	86	97	277	860	424	494	95	75	96	76	95	359	190	381	169	93	86
81	71	83	200	290	266	349	79	65	80	65	80	250	127	230	136	78	71
82	57	67	146	189	169	241	66	55	66	54	65	173	93	171	106	61	57
83	48	54	109	148	116	151	52	47	54	45	50	118	74	137	79	49	48
84	38	44	79	115	81	67	38	37	42	36	36	60	58	103	56	40	38
85	21	33	54	84	57	41	28	28	34	28	26	40	46	77	41	28	21
86	5	12	40	57	41	30	19	21	22	19	17	28	34	51	26	8	5
87	1	1	17	35	28	20	12	8	5	7	11	17	21	30	6	1	1
88	0	0	4	17	10	7	4	2	2	2	4	6	6	9	3	0	0
89	0	0	3	6	4	3	1	1	1	1	2	5	4	5	2	0	0
90	0	0	2	5	4	4	0	0	0	0	2	5	4	4	2	0	0
91	0	0	2	5	4	4	1	0	0	0	2	6	4	4	2	0	0
92	0	0	1	4	4	4	1	0	0	0	2	6	5	4	1	0	0
93	0	0	1	4	5	5	1	0	0	0	3	7	5	3	1	0	0
94	0	0	1	4	5	6	1	0	0	0	3	7	6	3	1	0	0
95	0	0	1	4	5	7	2	0	0	0	4	8	7	3	1	0	0

96	0	0	1	4	6	7	2	0	0	0	4	9	8	3	1	0	0
97	0	0	1	4	6	8	3	0	0	0	5	10	8	3	1	0	0
98	0	0	1	4	7	9	4	0	0	0	5	11	9	3	1	0	0
99	0	0	1	4	8	10	4	0	0	0	6	11	10	3	1	0	0
100	0	0	1	4	8	10	5	0	0	0	6	12	10	3	1	0	0
101	0	0	1	4	9	10	5	0	0	1	7	12	11	3	1	0	0
102	0	0	1	5	9	11	6	1	0	1	7	12	11	4	1	0	0
103	0	0	1	5	10	11	6	1	0	1	8	12	12	4	1	0	0
104	0	0	1	5	10	11	6	1	0	2	8	13	12	4	1	0	0
105	0	0	1	5	11	11	7	1	0	2	9	13	13	5	1	0	0
106	0	1	1	6	11	11	7	2	1	3	9	13	13	5	1	0	0
107	0	1	1	6	12	11	7	2	1	3	9	13	13	5	1	0	0
108	0	1	2	6	12	12	7	3	1	4	9	14	14	6	1	0	0
109	0	1	2	6	12	12	8	3	2	4	9	14	14	6	1	1	0
110	0	1	2	7	12	13	8	4	2	4	10	15	14	6	1	1	0
111	1	1	2	7	12	13	8	4	2	5	10	15	15	6	2	1	1
112	1	1	2	7	12	14	8	4	3	5	10	16	15	7	2	1	1
113	1	1	2	8	12	14	8	4	3	5	10	16	15	7	2	1	1
114	1	1	2	8	13	15	8	4	3	5	10	16	15	7	2	1	1
115	1	1	3	8	13	15	9	4	4	6	11	15	15	7	2	1	1
116	1	1	3	8	13	15	9	4	4	6	11	15	15	7	2	1	1
117	1	1	3	8	13	15	9	4	4	6	11	15	15	7	2	1	1
118	1	1	3	8	13	15	10	4	4	6	11	15	16	7	3	1	1
119	1	1	3	8	13	15	10	5	5	7	12	15	16	7	3	1	1
120	1	2	3	8	13	15	11	6	5	8	12	14	16	7	3	1	1
121	1	2	4	8	13	15	10	7	6	8	12	14	16	7	3	1	1
122	1	2	4	9	13	15	10	8	7	8	11	14	16	8	3	2	1
123	2	2	4	9	12	14	10	8	7	8	11	13	16	8	3	2	2
124	2	2	4	9	12	14	10	8	8	9	11	13	15	8	3	2	2
125	2	2	4	9	12	14	10	8	8	9	11	13	15	8	3	2	2
126	2	2	4	9	12	14	10	8	8	9	11	13	15	8	3	2	2
127	2	2	4	9	12	14	10	9	8	10	11	13	15	8	3	2	2
128	2	2	4	9	12	13	10	9	9	10	11	13	15	8	3	2	2
129	2	3	4	9	12	13	10	9	9	10	11	12	15	8	3	2	2
130	2	3	4	9	12	12	10	10	9	10	11	12	14	8	3	2	2
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Luminaire Report Summary

IESNA:LM-63-2002
 [TEST]
 [TESTDATE] 2016-08-01
 [TESTLAB] Standard-Tech Co.,Ltd.
 [ISSUEDATE] 2016-08-01 19:43:25
 [MANUFAC] SARIN Energy Inc.
 [LUMINAIRE] SES-SBN-4000-150 277V
 [_LAMPPOSITION] 0,0
 [_TOTALLUMINAIRELUMENS] 19128.4
 [OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 465.28
 465.28 2.43 2.4310- 20 1333.52 1798.80 9.40 9.4020- 30 2110.58 3909.38 20.44
 20.4430- 40 2839.52 6748.90 35.28 35.2840- 50 3390.10 10139.01 53.00 53.0050- 60
 3713.11 13852.11 72.41 72.4160- 70 3482.41 17334.52 90.61 90.6170- 80 1688.04
 19022.56 99.44 99.4480- 90 67.00 19089.56 99.79 99.7990-100 2.93 19092.49 99.80
 99.80100-110 5.31 19097.80 99.83 99.83110-120 6.98 19104.78 99.87 99.87120-130
 7.28 19112.06 99.91 99.91130-140 6.09 19118.15 99.94 99.94140-150 4.83 19122.98
 99.96 99.96150-160 3.71 19126.69 99.98 99.98160-170 2.39 19129.08 99.99 99.99170-
 180 1.00 19130.08 100.00 100.00

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.