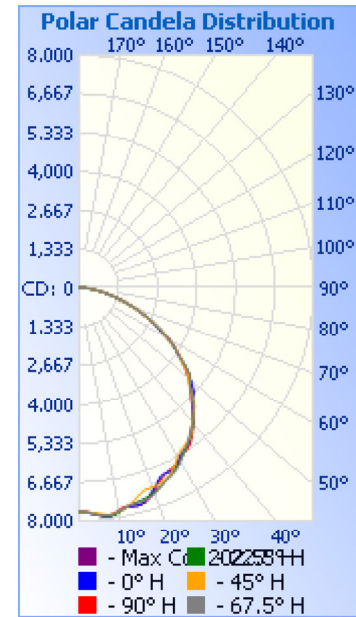


Photometrics Pro

Luminaire Photometric Report

Filename: Canopy 180W LCP - 120V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-LCP-5700-180 120V
Lamp Output: Total luminaire Lumens: 22880.8
Max Candela: 7,957.4 at Horizontal: 202.5°, Vertical: 7°
Input Wattage: 183.1
Luminous Opening: Point
Test Date: 2017-08-14
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	119.0	
Max Cd, 80 to <90 Deg:	791.2	
	Lumens	% Lamp
Downward Street Side:	11,420.5	49.9%
Downward House Side:	11,394.0	49.8%
Downward Total:	22,814.5	99.7%
Upward Street Side:	36.1	0.2%
Upward House Side:	32.4	0.1%
Upward Total:	68.6	0.3%
Total Lumens:	22,883.1	100%

Flood Summary

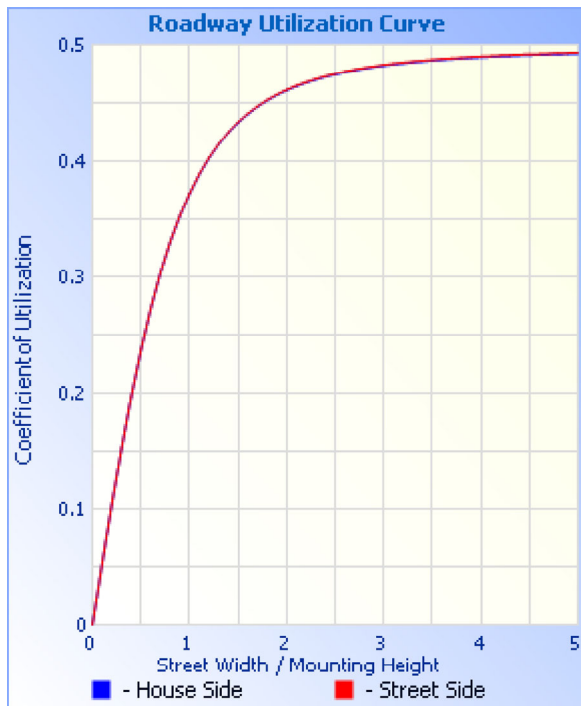
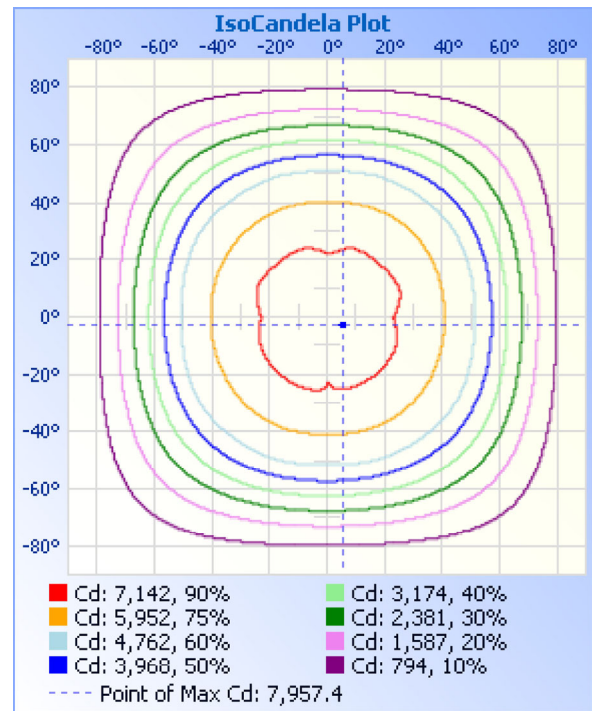
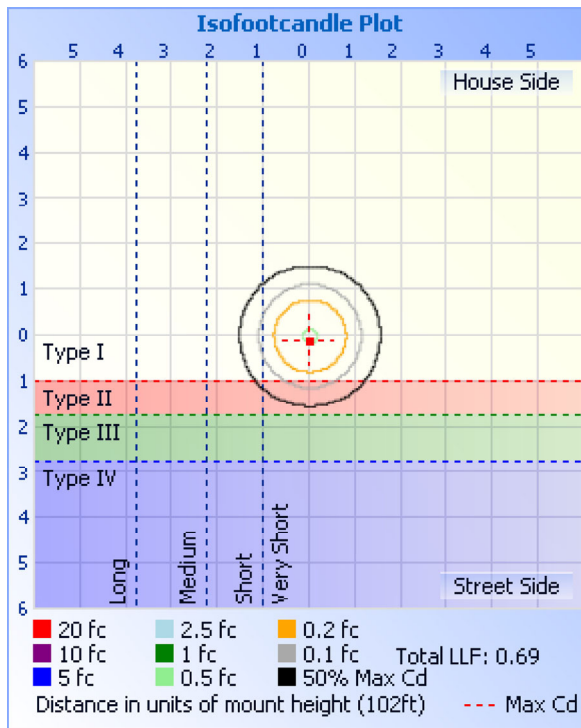
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.8%	22,378.2	158.9	159.1
Beam (50%):	75.2%	17,204.9	113.9	113.4
Total:	100%	22,874.0		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	6,206.9	27.1%
0-40	10,254.6	44.8%
0-60	18,273.9	79.9%
60-90	4,538.4	19.8%
70-100	1,840.0	8%
90-120	34.0	0.1%
0-90	22,812.3	99.7%
90-180	68.5	0.3%
0-180	22,880.8	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	749.6	3.3%	90-100	21.0	0.1%
10-20	2,157.8	9.4%	100-110	5.4	0%
20-30	3,299.6	14.4%	110-120	7.6	0%
30-40	4,047.6	17.7%	120-130	9.0	0%
40-50	4,226.8	18.5%	130-140	8.4	0%
50-60	3,792.5	16.6%	140-150	7.0	0%
60-70	2,719.4	11.9%	150-160	5.4	0%
70-80	1,408.4	6.2%	160-170	3.4	0%
80-90	410.6	1.8%	170-180	1.4	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	27.7 fc	50.9 ft	51.4 ft
33.3ft	6.96 fc	101.4 ft	102.4 ft
50.0ft	3.09 fc	152.2 ft	153.8 ft
66.7ft	1.74 fc	203.1 ft	205.1 ft
83.3ft	1.11 fc	253.6 ft	256.2 ft
100.0ft	0.77 fc	304.5 ft	307.5 ft

Vert. Spread: 113.4°
Horiz. Spread: 113.9°

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	1.09	1.04	1.00	.96	1.06	1.02	.98	.85	.97	.94	.91	.94	.91	.89	.90	.88	.86	.84
2	.99	.91	.84	.78	.96	.89	.83	.71	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3	.90	.80	.72	.65	.88	.78	.71	.61	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59

4	.83	.71	.62	.55	.80	.69	.61	.52	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5	.76	.63	.54	.47	.74	.62	.53	.45	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6	.70	.57	.48	.41	.68	.56	.47	.40	.54	.46	.41	.52	.45	.40	.51	.45	.40	.38
7	.65	.51	.43	.36	.63	.51	.42	.35	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8	.60	.47	.38	.32	.59	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9	.56	.43	.35	.29	.55	.42	.34	.28	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27
10	.53	.40	.32	.26	.52	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24

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	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719	7719
1	7721	7734	7719	7726	7715	7706	7707	7723	7716	7726	7715	7738	7740	7740	7744	7735	7721
2	7742	7746	7732	7744	7726	7718	7726	7727	7734	7750	7734	7771	7779	7759	7765	7755	7742
3	7778	7765	7754	7782	7756	7745	7744	7754	7767	7788	7792	7832	7831	7805	7792	7798	7778
4	7820	7802	7770	7809	7803	7793	7780	7793	7812	7850	7851	7880	7876	7857	7829	7827	7820
5	7855	7846	7814	7851	7860	7821	7804	7821	7861	7912	7888	7924	7912	7895	7868	7861	7855
6	7910	7887	7840	7885	7900	7866	7829	7853	7895	7950	7923	7954	7933	7928	7894	7904	7910
7	7937	7913	7875	7902	7917	7886	7834	7866	7917	7957	7930	7944	7932	7916	7890	7910	7937
8	7927	7922	7882	7891	7875	7881	7830	7847	7885	7931	7908	7916	7888	7872	7881	7904	7927
9	7885	7900	7850	7854	7836	7850	7801	7812	7814	7872	7855	7875	7827	7834	7846	7872	7885
10	7813	7852	7820	7808	7776	7813	7784	7771	7757	7817	7798	7828	7779	7775	7807	7839	7813
11	7755	7781	7769	7765	7719	7768	7725	7735	7707	7758	7728	7780	7756	7736	7754	7796	7755
12	7723	7721	7721	7713	7694	7734	7674	7712	7701	7715	7654	7759	7742	7718	7690	7766	7723
13	7720	7684	7659	7687	7706	7712	7631	7699	7721	7677	7588	7742	7759	7702	7619	7751	7720
14	7742	7661	7582	7685	7727	7703	7568	7681	7735	7657	7523	7721	7776	7695	7546	7718	7742
15	7760	7642	7505	7670	7752	7709	7508	7668	7747	7632	7469	7700	7765	7689	7468	7685	7760
16	7753	7622	7421	7662	7734	7706	7453	7643	7718	7596	7436	7683	7731	7664	7400	7639	7753
17	7697	7604	7354	7645	7715	7691	7415	7599	7664	7553	7427	7653	7659	7636	7362	7590	7697
18	7612	7567	7300	7621	7652	7662	7391	7546	7574	7514	7423	7608	7573	7605	7338	7542	7612
19	7505	7527	7305	7582	7572	7616	7378	7482	7462	7484	7411	7549	7470	7556	7328	7493	7505
20	7390	7493	7301	7539	7470	7546	7358	7436	7332	7447	7402	7480	7371	7506	7319	7430	7390
21	7293	7452	7296	7471	7353	7458	7333	7392	7233	7407	7370	7401	7260	7444	7294	7380	7293
22	7176	7394	7285	7399	7247	7369	7289	7357	7159	7365	7332	7336	7176	7386	7281	7320	7176
23	7090	7324	7258	7332	7155	7271	7248	7320	7121	7326	7305	7273	7114	7322	7273	7272	7090
24	7040	7266	7230	7277	7082	7205	7224	7265	7111	7240	7262	7217	7081	7288	7237	7228	7040
25	7026	7197	7181	7227	7036	7154	7181	7200	7122	7161	7189	7182	7060	7230	7197	7187	7026
26	7045	7133	7126	7194	6996	7118	7113	7136	7118	7098	7087	7126	7041	7191	7124	7152	7045
27	7050	7075	7037	7142	6966	7083	7021	7060	7088	7040	6985	7076	7016	7138	7029	7100	7050
28	7016	7020	6933	7085	6925	7020	6907	6986	7020	6983	6870	7006	6960	7062	6910	7051	7016
29	6935	6955	6825	6996	6874	6965	6794	6913	6932	6920	6775	6927	6891	6971	6792	6987	6935
30	6822	6881	6711	6897	6815	6886	6702	6836	6837	6853	6708	6845	6834	6876	6698	6911	6822
31	6720	6802	6636	6789	6750	6806	6640	6763	6763	6771	6671	6779	6793	6792	6626	6829	6720
32	6654	6721	6571	6710	6703	6731	6615	6698	6709	6690	6633	6710	6762	6711	6577	6750	6654
33	6616	6628	6528	6630	6667	6655	6584	6622	6648	6612	6597	6644	6719	6627	6539	6667	6616
34	6560	6535	6485	6558	6636	6579	6573	6552	6566	6542	6565	6557	6660	6536	6516	6579	6560
35	6507	6466	6453	6474	6569	6490	6524	6479	6472	6466	6501	6463	6576	6419	6477	6503	6507
36	6425	6398	6408	6378	6487	6388	6454	6392	6379	6387	6414	6368	6465	6331	6406	6428	6425
37	6315	6329	6334	6288	6395	6298	6334	6317	6292	6314	6299	6287	6349	6255	6316	6358	6315
38	6217	6260	6228	6205	6292	6207	6213	6227	6197	6220	6186	6223	6230	6194	6220	6268	6217
39	6120	6161	6108	6132	6176	6126	6104	6134	6098	6125	6089	6136	6112	6109	6111	6172	6120
40	6019	6050	6011	6046	6051	6028	6012	6027	6007	6016	6013	6021	6014	6021	6037	6045	6019
41	5935	5933	5927	5942	5940	5907	5925	5926	5910	5921	5927	5906	5899	5913	5959	5929	5935
42	5834	5836	5838	5827	5813	5769	5860	5853	5791	5833	5844	5785	5769	5805	5873	5823	5834
43	5705	5755	5742	5718	5681	5653	5739	5770	5654	5745	5741	5686	5632	5682	5768	5744	5705
44	5559	5669	5632	5605	5545	5545	5638	5664	5541	5629	5614	5575	5509	5575	5633	5666	5559
45	5450	5546	5515	5487	5419	5453	5508	5497	5462	5479	5482	5452	5424	5447	5496	5543	5450
46	5388	5377	5385	5351	5322	5338	5367	5342	5396	5330	5339	5330	5349	5315	5349	5383	5388

47	5339	5222	5246	5217	5239	5215	5233	5196	5326	5219	5188	5212	5272	5201	5217	5221	5339
48	5260	5096	5082	5109	5145	5110	5092	5105	5220	5132	5066	5123	5162	5115	5089	5094	5260
49	5124	5018	4961	5026	5031	5018	4971	5032	5073	5051	4958	5044	5025	5030	4987	5019	5124
50	4987	4951	4886	4958	4901	4936	4878	4950	4931	4953	4871	4962	4894	4937	4898	4958	4987
51	4846	4873	4803	4886	4766	4865	4796	4856	4792	4839	4768	4860	4759	4836	4788	4880	4846
52	4701	4758	4667	4773	4640	4746	4662	4725	4634	4689	4608	4714	4615	4715	4662	4758	4701
53	4542	4609	4497	4611	4498	4597	4504	4578	4495	4532	4447	4540	4476	4575	4509	4605	4542
54	4376	4446	4345	4430	4362	4422	4349	4406	4392	4366	4320	4366	4349	4401	4358	4439	4376
55	4225	4262	4231	4253	4211	4244	4251	4243	4260	4224	4231	4202	4208	4225	4248	4256	4225
56	4083	4115	4144	4098	4078	4091	4137	4107	4082	4078	4095	4094	4085	4081	4136	4106	4083
57	3948	3964	4001	3962	3953	3968	3974	3963	3935	3942	3919	3999	3972	3965	3968	3962	3948
58	3802	3802	3803	3828	3854	3848	3784	3804	3790	3785	3755	3845	3846	3830	3787	3817	3802
59	3645	3646	3612	3694	3709	3684	3634	3677	3648	3651	3625	3679	3683	3683	3611	3673	3645
60	3496	3506	3464	3520	3558	3521	3493	3522	3513	3504	3495	3541	3521	3509	3474	3538	3496
61	3339	3338	3348	3368	3384	3372	3382	3368	3325	3337	3351	3381	3329	3359	3365	3359	3339
62	3147	3201	3213	3247	3231	3242	3239	3201	3181	3174	3192	3221	3163	3233	3234	3225	3147
63	3003	3087	3067	3134	3078	3082	3072	3034	3037	3011	3032	3061	3054	3102	3081	3092	3003
64	2884	2894	2913	2943	2925	2923	2904	2868	2892	2848	2873	2902	2915	2913	2927	2898	2884
65	2769	2738	2750	2757	2794	2763	2737	2734	2744	2715	2716	2749	2778	2748	2761	2749	2769
66	2600	2592	2599	2638	2627	2639	2594	2595	2546	2582	2557	2627	2574	2610	2592	2596	2600
67	2410	2463	2419	2502	2455	2495	2430	2444	2406	2429	2404	2472	2429	2485	2418	2456	2410
68	2282	2275	2288	2320	2312	2313	2293	2265	2286	2254	2280	2283	2297	2289	2286	2277	2282
69	2151	2132	2163	2157	2173	2144	2150	2127	2121	2111	2113	2137	2137	2122	2152	2142	2151
70	1974	1989	1987	2023	2017	2010	1981	1973	1966	1963	1968	1981	1977	1991	1972	1978	1974
71	1823	1845	1832	1871	1865	1870	1843	1838	1823	1835	1817	1844	1842	1842	1828	1828	1823
72	1709	1723	1725	1737	1749	1737	1721	1705	1690	1689	1699	1719	1704	1721	1716	1718	1709
73	1575	1591	1594	1599	1590	1593	1589	1558	1553	1548	1561	1573	1569	1585	1585	1587	1575
74	1440	1458	1461	1469	1472	1452	1441	1431	1432	1410	1416	1434	1434	1449	1453	1455	1440
75	1305	1325	1329	1339	1329	1327	1323	1308	1287	1282	1298	1305	1298	1312	1321	1323	1305
76	1192	1198	1215	1219	1205	1207	1208	1188	1166	1171	1181	1192	1170	1186	1204	1197	1192
77	1077	1079	1099	1091	1076	1084	1096	1065	1051	1049	1073	1060	1046	1064	1091	1078	1077
78	969	973	991	985	965	974	986	960	946	940	963	951	935	948	979	975	969
79	854	870	890	873	856	865	892	860	841	846	863	844	827	846	881	871	854
80	757	776	791	777	751	766	789	768	743	756	766	745	722	743	778	768	757
81	657	683	698	678	651	668	692	676	656	664	675	650	628	652	685	677	657
82	569	595	609	585	564	581	605	591	566	580	587	563	540	562	592	583	569
83	485	512	522	505	484	501	519	510	485	500	502	482	459	484	505	501	485
84	411	432	442	428	408	425	441	432	408	422	425	408	386	407	424	423	411
85	338	362	368	358	339	356	366	358	337	351	353	337	316	339	351	350	338
86	272	294	299	290	271	289	297	290	273	285	287	274	253	274	284	284	272
87	218	235	236	232	219	230	236	231	218	228	224	218	201	218	224	227	218
88	175	188	188	185	174	183	184	181	173	180	177	171	160	172	177	180	175
89	136	148	150	148	137	144	146	140	134	140	140	135	125	135	140	141	136
90	104	113	119	115	104	108	105	90	92	98	102	100	92	99	104	101	104
91	45	55	77	84	79	77	60	26	28	35	58	70	68	69	61	42	45
92	6	8	36	55	57	49	27	4	4	4	24	42	46	43	27	5	6
93	4	4	15	31	35	26	10	3	3	3	8	19	23	20	9	4	4
94	4	4	5	13	14	10	4	4	3	3	4	7	9	8	4	4	4
95	4	6	5	5	6	4	5	18	6	9	6	3	4	4	4	12	4

96	22	17	5	4	3	3	5	19	27	19	6	3	4	4	5	16	22
97	16	11	4	4	3	3	4	12	18	12	4	3	4	4	4	10	16
98	10	7	4	4	4	3	3	7	11	7	3	3	4	4	4	6	10
99	6	5	4	4	4	3	3	4	7	4	3	4	4	4	4	4	6
100	5	4	4	4	4	3	4	4	5	4	4	4	4	4	4	4	5
101	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
102	4	4	5	5	4	4	4	4	4	4	4	4	5	5	5	4	4
103	4	4	5	5	5	4	4	4	4	4	4	4	5	5	5	5	4
104	5	5	5	5	5	5	4	4	4	4	4	5	5	5	5	5	5
105	5	5	6	6	5	5	5	5	4	4	5	5	6	6	6	5	5
106	5	6	6	6	5	5	5	5	5	4	5	5	6	6	6	6	5
107	6	6	6	6	6	5	5	5	5	5	5	6	7	6	6	6	6
108	6	6	7	7	6	5	5	5	5	5	5	6	7	7	7	7	6
109	7	7	7	7	6	6	6	6	6	5	5	6	7	7	7	7	7
110	7	7	7	8	7	6	6	6	6	5	6	7	8	8	7	7	7
111	7	7	8	8	7	6	6	6	6	5	6	7	8	8	7	7	7
112	7	7	8	8	7	6	6	6	6	5	6	7	8	8	8	7	7
113	8	7	8	9	7	7	6	6	6	5	6	8	9	9	8	7	8
114	8	7	8	9	8	7	7	6	7	5	6	8	9	9	8	8	8
115	8	7	9	9	8	7	7	6	7	5	6	8	9	9	8	8	8
116	8	7	9	10	8	8	7	6	7	5	7	8	10	10	9	7	8
117	8	7	9	10	8	8	7	6	7	5	7	8	10	10	9	6	8
118	8	7	9	10	8	8	8	6	7	5	7	8	10	10	9	6	8
119	8	8	10	10	9	8	8	7	7	6	7	9	10	10	9	8	8
120	9	9	10	11	9	8	9	8	7	7	7	9	11	10	10	9	9
121	9	10	10	11	9	8	9	9	8	8	7	9	11	11	10	10	9
122	11	11	10	11	9	9	9	9	9	8	7	9	11	11	10	11	11
123	12	11	10	11	9	9	9	10	10	8	7	9	11	11	10	11	12
124	12	11	10	11	9	9	9	10	10	8	8	9	12	11	10	11	12
125	13	12	10	12	9	9	9	10	10	8	8	9	12	12	10	11	13
126	13	12	10	12	10	9	8	10	10	9	8	10	12	12	10	11	13
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Luminaire Report Summary

IESNA:LM-63-2002
 [TEST]
 [TESTDATE] 2017-08-14
 [TESTLAB] Standard-Tech Co. Ltd
 [ISSUEDATE] 2017-08-14
 [MANUFAC] SARIN Energy Inc.
 [LUMINAIRE] SES-LCP-5700-180 120V
 [_LAMPPOSITION] 0,0
 [_TOTALLUMINAIRELUMENS] 22880.8
 [OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 749.59
 749.59 3.28 3.2810- 20 2157.79 2907.38 12.71 12.7120- 30 3299.60 6206.98 27.12
 27.1230- 40 4048.33 10255.31 44.82 44.8240- 50 4227.65 14482.97 63.29 63.2950- 60
 3793.36 18276.33 79.87 79.8760- 70 2719.42 20995.75 91.75 91.7570- 80 1408.22
 22403.96 97.91 97.9180- 90 410.51 22814.47 99.70 99.7090-100 21.00 22835.47 99.79
 99.79100-110 5.44 22840.91 99.82 99.82110-120 7.56 22848.47 99.85 99.85120-130
 9.04 22857.51 99.89 99.89130-140 8.37 22865.88 99.93 99.93140-150 6.96 22872.84
 99.96 99.96150-160 5.37 22878.21 99.98 99.98160-170 3.41 22881.61 99.99 99.99170-
 180 1.41 22883.03 100.00 100.00

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.