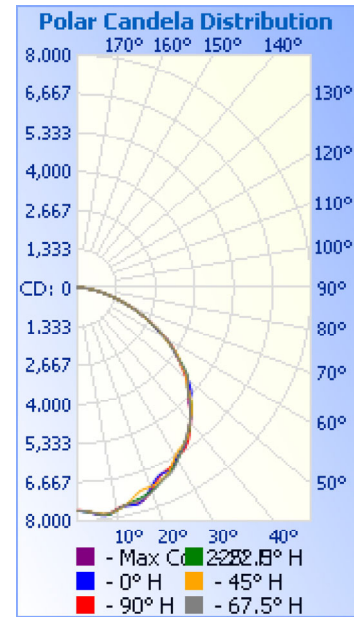


Photometrics Pro

Luminaire Photometric Report

Filename: Canopy 180W LCP - 277V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-LCP-5700-180 277V
Lamp Output: Total luminaire Lumens: 22770.8
Max Candela: 7,902.9 at Horizontal: 225°, Vertical: 6°
Input Wattage: 178.7
Luminous Opening: Point
Test Date: 2017-08-14
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 7 X 7

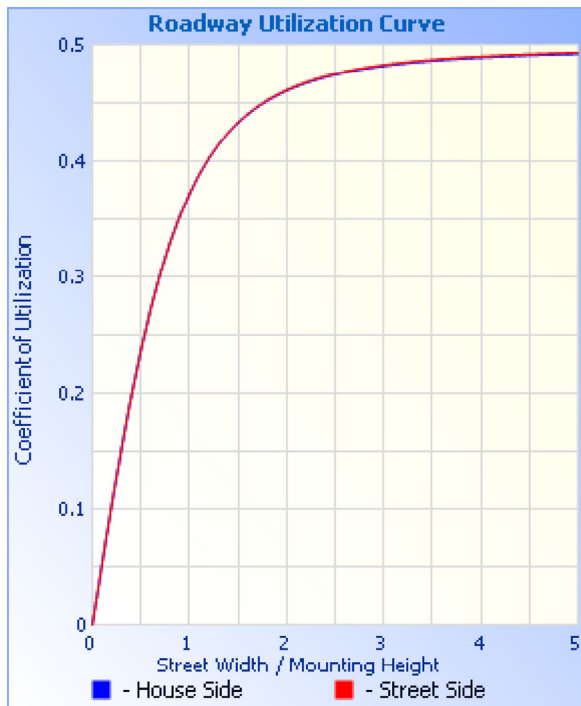
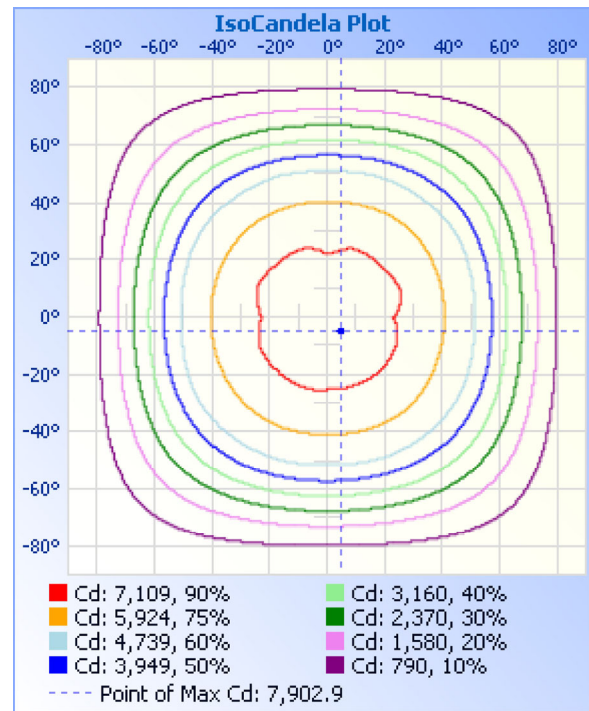
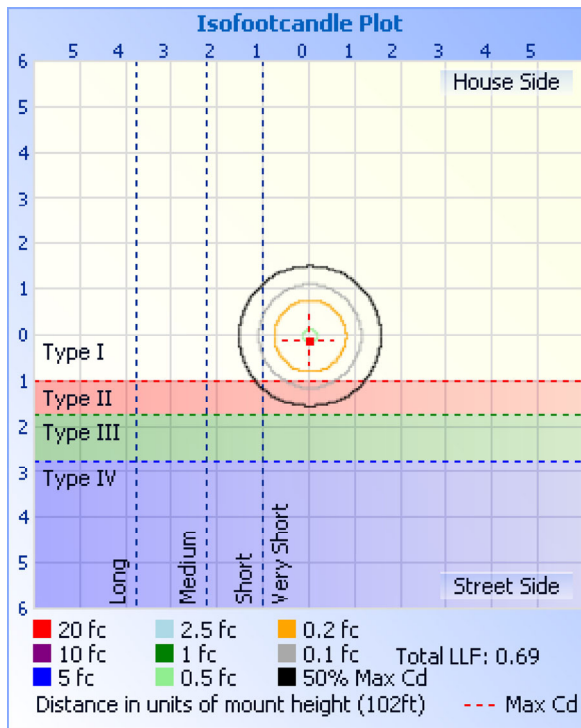


Roadway Summary		
Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	119.5	
Max Cd, 80 to <90 Deg:	795.3	
	Lumens	% Lamp
Downward Street Side:	11,368.5	49.9%
Downward House Side:	11,336.2	49.8%
Downward Total:	22,704.7	99.7%
Upward Street Side:	36.1	0.2%
Upward House Side:	32.2	0.1%
Upward Total:	68.3	0.3%
Total Lumens:	22,773.0	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.8%	22,273.2	159	159.2
Beam (50%):	75.2%	17,124.5	113.9	113.4
Total:	100%	22,764.2		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	6,173.6	27.1%
0-40	10,201.5	44.8%
0-60	18,179.4	79.8%
60-90	4,523.1	19.9%
70-100	1,837.9	8.1%
90-120	34.0	0.1%
0-90	22,702.5	99.7%
90-180	68.3	0.3%
0-180	22,770.8	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	745.5	3.3%	90-100	21.1	0.1%
10-20	2,145.7	9.4%	100-110	5.4	0%
20-30	3,282.4	14.4%	110-120	7.5	0%
30-40	4,027.9	17.7%	120-130	9.0	0%
40-50	4,206.9	18.5%	130-140	8.3	0%
50-60	3,771.0	16.6%	140-150	6.9	0%
60-70	2,706.4	11.9%	150-160	5.3	0%
70-80	1,406.1	6.2%	160-170	3.4	0%
80-90	410.7	1.8%	170-180	1.4	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	27.5 fc	50.8 ft	51.3 ft
33.3ft	6.92 fc	101.3 ft	102.3 ft
50.0ft	3.07 fc	152.1 ft	153.6 ft
66.7ft	1.72 fc	203.0 ft	204.9 ft
83.3ft	1.11 fc	253.5 ft	255.9 ft
100.0ft	0.77 fc	304.3 ft	307.2 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	.75	.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	.45	.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	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672	7672
1	7688	7682	7680	7675	7672	7670	7665	7663	7672	7679	7688	7690	7692	7692	7692	7696	7688
2	7707	7703	7691	7693	7683	7684	7673	7677	7692	7703	7721	7731	7736	7726	7722	7713	7707
3	7742	7731	7722	7723	7719	7715	7701	7705	7730	7745	7769	7778	7792	7774	7763	7753	7742
4	7783	7761	7757	7761	7768	7768	7726	7747	7776	7810	7830	7833	7843	7819	7795	7789	7783
5	7830	7805	7791	7804	7824	7807	7762	7785	7823	7865	7877	7871	7883	7858	7823	7819	7830
6	7874	7848	7818	7839	7860	7840	7787	7811	7852	7898	7903	7892	7900	7885	7845	7853	7874
7	7894	7875	7837	7851	7872	7853	7796	7814	7858	7901	7901	7888	7885	7876	7848	7871	7894
8	7884	7877	7842	7838	7848	7844	7781	7794	7821	7869	7873	7860	7844	7837	7837	7858	7884
9	7840	7841	7823	7806	7795	7811	7751	7757	7759	7813	7831	7814	7787	7789	7808	7822	7840
10	7769	7786	7779	7755	7733	7772	7717	7713	7697	7753	7765	7768	7736	7732	7767	7786	7769
11	7710	7723	7729	7708	7684	7737	7671	7680	7675	7697	7693	7722	7721	7701	7713	7746	7710
12	7684	7671	7681	7670	7665	7707	7618	7656	7669	7655	7617	7700	7729	7675	7647	7722	7684
13	7690	7637	7615	7647	7672	7693	7566	7644	7685	7626	7544	7688	7740	7668	7572	7699	7690
14	7708	7610	7543	7638	7695	7683	7518	7637	7715	7598	7492	7673	7744	7655	7490	7669	7708
15	7730	7590	7465	7634	7710	7683	7461	7623	7716	7574	7453	7660	7725	7650	7418	7637	7730
16	7717	7566	7381	7623	7702	7672	7412	7589	7687	7539	7432	7635	7677	7633	7362	7591	7717
17	7658	7546	7328	7601	7665	7663	7377	7542	7619	7500	7415	7605	7605	7604	7327	7542	7658
18	7563	7512	7299	7574	7600	7638	7363	7484	7516	7457	7409	7555	7514	7571	7310	7493	7563
19	7453	7476	7290	7530	7506	7590	7343	7439	7402	7422	7395	7489	7409	7517	7300	7438	7453
20	7336	7440	7289	7480	7406	7521	7316	7394	7285	7394	7371	7419	7306	7461	7287	7380	7336
21	7227	7394	7279	7418	7299	7429	7284	7354	7183	7366	7341	7343	7217	7407	7272	7324	7227
22	7128	7333	7262	7347	7205	7338	7252	7316	7123	7318	7326	7280	7143	7364	7258	7269	7128
23	7054	7274	7244	7280	7121	7251	7226	7270	7100	7256	7287	7222	7094	7312	7239	7223	7054
24	7017	7214	7207	7228	7055	7187	7183	7206	7104	7185	7229	7177	7062	7262	7210	7177	7017
25	7018	7156	7156	7194	7006	7143	7133	7153	7108	7109	7150	7140	7047	7218	7155	7145	7018
26	7033	7104	7088	7160	6977	7107	7058	7080	7095	7046	7055	7097	7026	7163	7069	7114	7033
27	7029	7044	7001	7107	6948	7066	6955	7014	7055	6988	6947	7035	6980	7103	6973	7068	7029
28	6976	6980	6892	7043	6898	7004	6853	6931	6978	6941	6848	6957	6915	7019	6852	7023	6976
29	6883	6914	6779	6945	6835	6936	6757	6864	6891	6880	6763	6883	6852	6927	6747	6952	6883
30	6782	6834	6683	6846	6771	6862	6673	6794	6816	6808	6711	6801	6810	6840	6671	6869	6782
31	6693	6755	6612	6746	6718	6784	6635	6729	6752	6727	6673	6737	6778	6754	6613	6791	6693
32	6638	6666	6561	6661	6686	6706	6606	6655	6693	6657	6645	6668	6746	6679	6571	6705	6638
33	6596	6576	6522	6593	6656	6630	6584	6588	6616	6587	6611	6598	6700	6595	6538	6619	6596
34	6542	6499	6490	6518	6614	6544	6552	6513	6526	6512	6560	6516	6625	6493	6499	6541	6542
35	6468	6429	6453	6436	6539	6458	6487	6433	6431	6436	6483	6418	6530	6395	6446	6468	6468
36	6380	6362	6388	6340	6461	6363	6390	6345	6345	6360	6379	6333	6420	6309	6364	6395	6380
37	6284	6293	6297	6251	6355	6288	6274	6264	6259	6271	6264	6255	6303	6232	6271	6318	6284
38	6183	6212	6190	6174	6245	6210	6160	6171	6174	6182	6163	6180	6190	6166	6170	6224	6183
39	6088	6117	6090	6095	6135	6122	6062	6088	6083	6084	6077	6076	6084	6084	6089	6114	6088
40	6005	6001	5994	6001	6019	6000	5984	5999	5985	5984	6006	5962	5979	5987	6019	6000	6005
41	5919	5893	5913	5893	5906	5866	5915	5902	5879	5892	5934	5843	5864	5878	5947	5890	5919
42	5802	5800	5836	5781	5779	5736	5826	5821	5747	5806	5836	5739	5730	5763	5854	5801	5802
43	5660	5731	5734	5675	5641	5636	5717	5730	5620	5709	5714	5647	5599	5654	5734	5732	5660
44	5527	5634	5616	5561	5514	5540	5591	5597	5525	5575	5576	5535	5500	5540	5609	5634	5527
45	5435	5490	5495	5437	5402	5438	5456	5437	5457	5426	5447	5410	5423	5415	5459	5497	5435
46	5381	5321	5370	5303	5322	5321	5323	5293	5386	5298	5316	5288	5344	5292	5324	5330	5381

47	5325	5183	5219	5177	5230	5197	5187	5181	5296	5196	5181	5187	5252	5192	5192	5184	5325
48	5228	5082	5070	5070	5131	5098	5057	5103	5183	5114	5062	5105	5132	5105	5074	5084	5228
49	5102	5012	4962	5002	5011	5023	4950	5021	5052	5036	4958	5034	5008	5023	4976	5020	5102
50	4967	4945	4891	4944	4875	4948	4858	4935	4913	4938	4864	4955	4875	4934	4877	4944	4967
51	4831	4861	4793	4864	4749	4855	4760	4826	4758	4808	4735	4837	4731	4829	4764	4853	4831
52	4667	4730	4641	4734	4610	4723	4614	4681	4600	4650	4576	4675	4581	4701	4619	4725	4667
53	4501	4576	4473	4562	4466	4556	4460	4518	4482	4486	4426	4493	4449	4541	4470	4571	4501
54	4350	4400	4338	4377	4332	4380	4339	4354	4386	4324	4329	4321	4321	4367	4351	4391	4350
55	4217	4228	4246	4214	4189	4209	4242	4215	4230	4192	4230	4170	4199	4196	4241	4222	4217
56	4061	4092	4145	4065	4069	4077	4094	4075	4055	4056	4066	4085	4085	4071	4102	4082	4061
57	3923	3940	3972	3936	3962	3970	3923	3927	3920	3907	3899	3972	3974	3952	3933	3945	3923
58	3787	3777	3780	3808	3848	3825	3753	3782	3768	3764	3750	3809	3827	3812	3752	3791	3787
59	3633	3628	3605	3665	3686	3660	3610	3653	3641	3628	3620	3664	3660	3658	3595	3657	3633
60	3490	3491	3469	3495	3527	3500	3474	3496	3495	3465	3483	3506	3490	3492	3459	3511	3490
61	3307	3309	3340	3339	3349	3351	3354	3333	3288	3316	3339	3362	3299	3344	3351	3338	3307
62	3132	3199	3211	3246	3206	3240	3196	3173	3151	3157	3181	3201	3164	3238	3214	3224	3132
63	3010	3064	3064	3120	3064	3074	3039	3013	3014	2998	3023	3041	3048	3073	3074	3063	3010
64	2879	2869	2907	2913	2921	2908	2881	2854	2877	2839	2866	2881	2909	2904	2906	2879	2879
65	2759	2731	2748	2746	2776	2743	2721	2720	2728	2700	2721	2729	2749	2736	2745	2743	2759
66	2571	2578	2593	2629	2596	2626	2569	2581	2530	2571	2545	2606	2552	2619	2579	2583	2571
67	2405	2457	2409	2487	2439	2482	2412	2431	2413	2405	2401	2449	2416	2466	2413	2442	2405
68	2291	2263	2300	2311	2304	2293	2288	2263	2289	2251	2280	2271	2287	2275	2289	2267	2291
69	2146	2135	2156	2154	2165	2143	2133	2121	2102	2105	2108	2128	2117	2124	2138	2137	2146
70	1967	1989	2001	2019	2002	2005	1980	1971	1962	1953	1957	1967	1966	1995	1980	1970	1967
71	1830	1833	1826	1870	1861	1860	1834	1839	1821	1832	1818	1835	1848	1843	1824	1820	1830
72	1702	1719	1725	1732	1737	1726	1710	1698	1683	1685	1691	1708	1698	1718	1710	1715	1702
73	1570	1588	1593	1600	1574	1585	1579	1562	1550	1538	1556	1562	1567	1583	1581	1584	1570
74	1438	1456	1460	1470	1472	1451	1436	1425	1418	1409	1416	1429	1436	1449	1451	1454	1438
75	1307	1325	1328	1341	1320	1328	1317	1303	1288	1277	1299	1298	1304	1314	1321	1323	1307
76	1193	1196	1216	1217	1202	1202	1202	1184	1165	1167	1181	1182	1173	1188	1204	1194	1193
77	1082	1080	1103	1091	1075	1079	1095	1066	1051	1048	1070	1053	1050	1066	1090	1077	1082
78	970	976	994	983	963	970	984	955	942	937	962	948	937	951	980	976	970
79	854	872	895	873	857	864	889	861	842	847	864	839	831	850	881	870	854
80	760	776	795	776	749	765	787	766	744	755	765	742	726	748	779	769	760
81	660	685	702	678	651	667	693	674	655	662	674	648	629	653	683	679	660
82	572	596	612	586	561	578	605	590	566	578	586	561	542	564	593	584	572
83	488	514	525	504	483	500	517	509	483	497	502	480	462	486	506	504	488
84	413	434	443	429	407	425	440	430	409	420	425	406	388	408	425	425	413
85	340	362	370	359	336	353	366	357	336	349	351	336	318	339	353	353	340
86	273	295	300	290	269	286	296	288	271	284	285	271	255	275	285	284	273
87	219	235	239	233	217	229	234	229	217	226	223	217	203	218	226	227	219
88	176	189	189	186	173	182	184	181	172	179	176	171	161	173	178	181	176
89	138	149	152	149	137	144	146	139	133	140	139	135	126	136	141	143	138
90	105	114	120	115	105	108	104	90	91	97	102	100	93	100	104	104	105
91	48	57	78	84	79	77	60	26	28	35	57	70	69	70	63	43	48
92	6	9	37	56	57	49	27	4	4	4	23	43	48	44	28	6	6
93	4	4	16	31	35	26	10	4	3	3	7	19	24	21	10	4	4
94	3	4	5	13	14	10	4	4	3	4	4	7	9	8	4	4	3
95	4	5	5	5	6	4	5	19	6	10	5	3	4	4	4	11	4

96	21	17	5	4	3	3	5	18	26	18	5	3	4	4	5	16	21
97	16	11	4	4	3	3	4	12	18	11	4	3	4	4	4	10	16
98	10	7	4	4	3	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	5	6
100	5	4	4	4	4	3	4	4	4	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	5	4	5	5	4	4	4	4	4	4	4	4	5	5	5	5	5
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	6	6	6	6	6
108	6	6	7	7	6	5	5	6	5	5	5	6	7	7	6	6	6
109	6	7	7	7	6	6	6	6	5	5	5	6	7	7	7	7	6
110	7	7	7	8	6	6	6	6	6	5	6	7	7	8	7	7	7
111	7	7	7	8	7	6	6	6	6	5	6	7	8	8	8	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	8	9	8	7	8
114	8	7	8	9	7	7	6	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	9	8	8
116	8	7	9	10	8	7	7	6	7	5	6	8	9	9	9	7	8
117	8	7	9	10	8	8	7	6	7	5	7	8	10	10	9	7	8
118	9	7	9	10	8	8	8	6	7	5	7	8	10	10	9	6	9
119	8	7	9	10	9	8	8	7	7	6	7	9	10	10	9	8	8
120	8	9	10	10	9	8	8	8	7	7	7	9	11	10	10	9	8
121	9	10	10	11	9	8	8	9	8	7	7	9	11	10	10	10	9
122	11	11	10	11	9	9	8	9	9	8	7	9	11	11	10	10	11
123	12	11	10	11	9	9	8	10	10	8	7	9	11	11	10	11	12
124	12	11	10	11	9	9	8	10	10	8	8	9	11	11	10	11	12
125	13	11	10	12	9	9	8	10	10	8	8	9	12	12	10	11	13
126	13	12	10	12	9	9	8	10	10	8	8	9	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 277V

[_LAMPPOSITION] 0,0

[_TOTALLUMINAIRELUMENS] 22770.8

[OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 745.49

745.49 3.27 3.2710- 20 2145.73 2891.21 12.70 12.7020- 30 3282.43 6173.64 27.11

27.1130- 40 4028.55 10202.19 44.80 44.8040- 50 4207.76 14409.95 63.28 63.2850- 60

3771.85 18181.80 79.84 79.8460- 70 2706.40 20888.20 91.72 91.7270- 80 1405.88

22294.07 97.90 97.9080- 90 410.62 22704.69 99.70 99.7090-100 21.12 22725.81 99.79

99.79100-110 5.40 22731.20 99.82 99.82110-120 7.51 22738.71 99.85 99.85120-130

8.98 22747.69 99.89 99.89130-140 8.31 22756.01 99.93 99.93140-150 6.91 22762.92

99.96 99.96150-160 5.34 22768.25 99.98 99.98160-170 3.38 22771.63 99.99 99.99170-

180 1.40 22773.03 100.00 100.00

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.