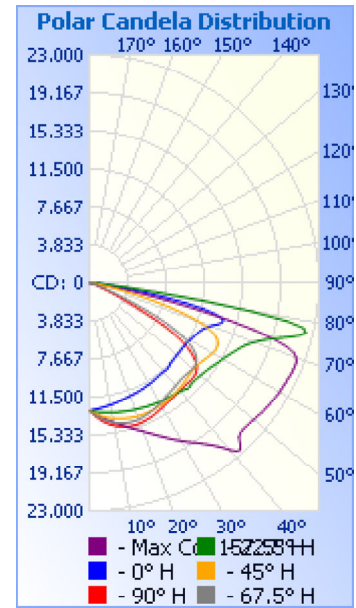


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SBN 400W - 277V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-SHOEBOX-4000-400 277V
Lamp Output: Total luminaire Lumens: 52569
Max Candela: 22,585.0 at Horizontal: 157.5°, Vertical: 42°
Input Wattage: 377
Luminous Opening: Point
Test Date: 2015-12-23
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 6 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	27.4	
Max Cd, 80 to <90 Deg:	16,482.3	
	Lumens	% Lamp
Downward Street Side:	23,359.3	44.4%
Downward House Side:	29,099.6	55.4%
Downward Total:	52,458.8	99.8%
Upward Street Side:	63.7	0.1%
Upward House Side:	49.7	0.1%
Upward Total:	113.4	0.2%
Total Lumens:	52,572.2	100%

Flood Summary

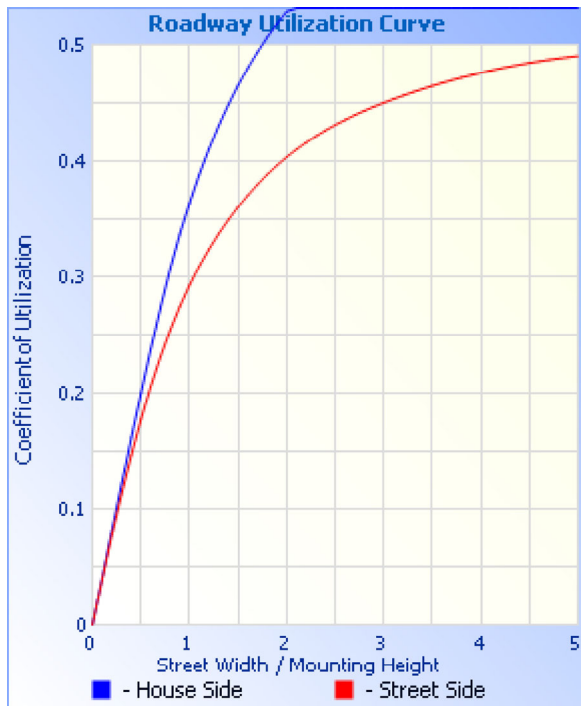
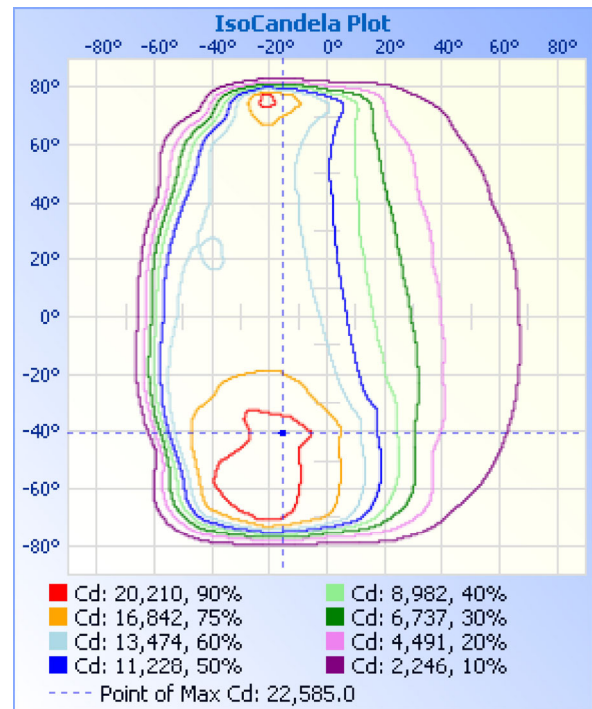
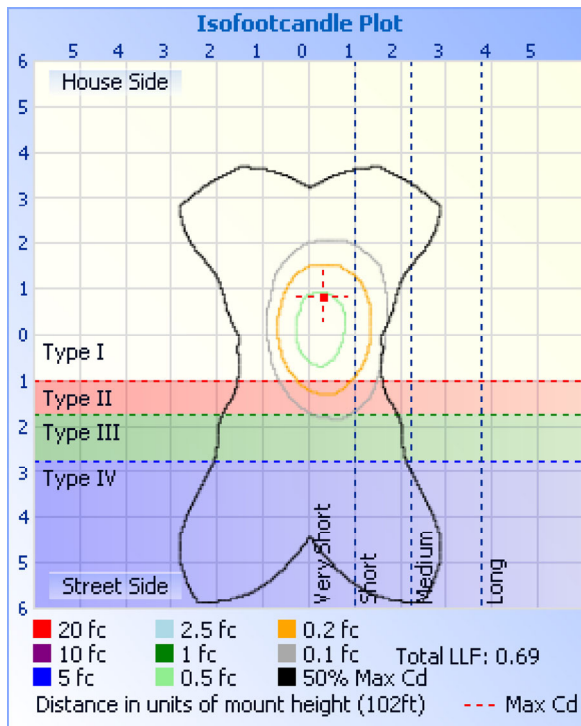
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.8%	51,423.8	124.6	162.7
Beam (50%):	71.7%	37,693.7	72.4	154.9
Total:	99.9%	52,533.6		

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	10,419.9	19.8%
0-40	18,000.2	34.2%
0-60	36,870.7	70.1%
60-90	15,584.9	29.6%
70-100	6,461.0	12.3%
90-120	52.8	0.1%
0-90	52,455.7	99.8%
90-180	113.4	0.2%
0-180	52,569.0	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,220.2	2.3%	90-100	13.5	0%
10-20	3,543.5	6.7%	100-110	18.6	0%
20-30	5,656.2	10.8%	110-120	20.8	0%
30-40	7,580.4	14.4%	120-130	20.7	0%
40-50	9,001.0	17.1%	130-140	15.6	0%
50-60	9,869.5	18.8%	140-150	10.5	0%
60-70	9,137.4	17.4%	150-160	7.5	0%
70-80	5,808.6	11.0%	160-170	4.5	0%
80-90	638.9	1.2%	170-180	1.7	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	46.2 fc	149.9 ft	24.4 ft
33.3ft	11.6 fc	299.0 ft	48.7 ft
50.0ft	5.15 fc	448.9 ft	73.1 ft
66.7ft	2.89 fc	598.8 ft	97.6 ft
83.3ft	1.86 fc	747.9 ft	121.9 ft
100.0ft	1.29 fc	897.8 ft	146.3 ft

■ Vert. Spread: 154.9°
■ Horiz. Spread: 72.4°

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	1.07	1.02	.97	.93	1.05	1.00	.95	.82	.95	.92	.89	.91	.89	.86	.88	.85	.83	.81
2	.96	.87	.79	.73	.93	.85	.78	.66	.81	.75	.70	.78	.73	.69	.75	.71	.67	.65
3	.87	.75	.66	.59	.84	.73	.65	.54	.70	.63	.57	.67	.61	.56	.65	.59	.55	.52

4	.79	.65	.56	.48	.76	.64	.55	.45	.61	.53	.47	.59	.52	.46	.57	.51	.46	.43
5	.72	.58	.48	.41	.69	.56	.47	.39	.54	.46	.40	.52	.45	.39	.50	.44	.39	.36
6	.66	.51	.42	.35	.64	.50	.41	.33	.48	.40	.34	.47	.39	.34	.45	.38	.33	.31
7	.61	.46	.37	.30	.59	.45	.36	.29	.44	.36	.30	.42	.35	.29	.41	.34	.29	.27
8	.56	.42	.33	.26	.55	.41	.32	.26	.40	.32	.26	.38	.31	.26	.37	.31	.26	.24
9	.52	.38	.29	.23	.51	.37	.29	.23	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10	.49	.35	.27	.21	.48	.34	.26	.21	.33	.26	.21	.32	.26	.21	.31	.25	.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	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877	12877
1	12825	12918	13006	13070	13103	13109	13073	13013	12924	12837	12741	12680	12635	12639	12671	12743	12825
2	12779	12961	13127	13254	13322	13337	13266	13150	12971	12792	12604	12465	12385	12397	12464	12609	12779
3	12734	13000	13243	13426	13533	13552	13457	13287	13027	12744	12466	12252	12134	12154	12257	12474	12734
4	12690	13037	13355	13580	13731	13756	13646	13421	13083	12698	12316	12033	11880	11900	12058	12342	12690
5	12649	13074	13456	13727	13907	13948	13831	13559	13140	12652	12170	11814	11622	11640	11861	12211	12649
6	12607	13108	13550	13862	14070	14131	14009	13701	13206	12605	12026	11588	11357	11386	11650	12078	12607
7	12560	13145	13637	13986	14220	14304	14185	13837	13277	12562	11876	11354	11093	11131	11437	11945	12560
8	12517	13178	13718	14094	14362	14458	14356	13978	13345	12511	11724	11126	10832	10881	11222	11805	12517
9	12480	13208	13788	14198	14485	14604	14524	14126	13414	12462	11569	10897	10569	10626	10999	11662	12480
10	12440	13245	13848	14285	14594	14744	14680	14274	13486	12421	11418	10672	10313	10365	10785	11516	12440
11	12401	13281	13915	14355	14689	14880	14840	14425	13551	12375	11267	10449	10054	10105	10568	11383	12401
12	12358	13313	13968	14418	14767	14992	14990	14568	13616	12325	11119	10232	9799	9859	10344	11248	12358
13	12309	13342	14025	14472	14841	15109	15141	14722	13697	12285	10970	10018	9555	9616	10116	11107	12309
14	12271	13369	14070	14520	14911	15225	15288	14881	13784	12248	10822	9811	9333	9384	9898	10963	12271
15	12231	13401	14111	14558	14965	15316	15429	15042	13877	12203	10677	9618	9119	9163	9695	10826	12231
16	12188	13435	14151	14592	15000	15411	15576	15202	13970	12156	10535	9431	8916	8951	9496	10688	12188
17	12161	13461	14182	14614	15029	15493	15721	15380	14062	12110	10394	9250	8724	8755	9305	10557	12161
18	12128	13493	14211	14622	15033	15549	15863	15555	14167	12064	10262	9077	8542	8567	9125	10436	12128
19	12096	13524	14240	14616	15030	15597	16000	15730	14292	12021	10132	8913	8369	8384	8950	10306	12096
20	12062	13547	14261	14597	15014	15638	16130	15921	14426	11978	10007	8760	8198	8207	8778	10168	12062
21	12045	13574	14278	14564	14979	15668	16281	16130	14558	11941	9878	8611	8033	8037	8621	10044	12045
22	12022	13610	14287	14524	14936	15694	16431	16335	14697	11914	9756	8467	7872	7869	8467	9917	12022
23	11996	13642	14293	14472	14895	15713	16573	16571	14836	11889	9642	8328	7707	7708	8312	9796	11996
24	11974	13679	14294	14420	14868	15743	16720	16800	14973	11865	9526	8192	7544	7547	8170	9672	11974
25	11950	13708	14289	14379	14830	15770	16862	17037	15141	11848	9418	8049	7379	7381	8027	9537	11950
26	11924	13737	14294	14322	14765	15778	17014	17293	15333	11832	9305	7911	7209	7219	7893	9410	11924
27	11894	13768	14289	14254	14700	15773	17147	17553	15530	11833	9202	7761	7033	7050	7751	9290	11894
28	11866	13801	14269	14177	14647	15776	17298	17811	15752	11824	9095	7615	6848	6884	7616	9177	11866
29	11832	13822	14240	14117	14589	15791	17449	18076	15968	11827	9006	7460	6662	6710	7484	9063	11832
30	11813	13862	14225	14058	14533	15812	17608	18334	16179	11859	8927	7309	6469	6534	7350	8952	11813
31	11791	13903	14215	13989	14467	15842	17769	18600	16418	11904	8861	7165	6265	6357	7219	8843	11791
32	11768	13918	14209	13900	14392	15853	17930	18870	16649	11971	8835	7018	6058	6166	7093	8738	11768
33	11743	13937	14187	13809	14339	15870	18117	19148	16916	12088	8831	6858	5834	5973	6974	8636	11743
34	11711	13955	14172	13731	14307	15911	18321	19422	17216	12275	8790	6670	5601	5771	6852	8545	11711
35	11680	13975	14135	13670	14282	15926	18533	19719	17544	12477	8671	6449	5354	5569	6716	8478	11680
36	11649	14018	14081	13631	14255	15935	18790	20068	17918	12571	8540	6221	5115	5362	6579	8414	11649
37	11631	14064	14042	13587	14221	15943	19042	20441	18351	12579	8388	5976	4876	5146	6454	8316	11631
38	11614	14112	14006	13556	14188	15951	19303	20860	18784	12494	8181	5733	4650	4924	6310	8218	11614
39	11615	14150	13959	13512	14152	15947	19591	21350	19040	12301	7959	5488	4439	4713	6167	8124	11615
40	11620	14204	13912	13474	14118	15938	19880	21933	19097	12120	7746	5243	4246	4503	6024	8031	11620
41	11640	14281	13877	13424	14095	15936	20143	22419	18944	11997	7569	5017	4070	4301	5882	7935	11640
42	11649	14379	13846	13390	14078	15918	20320	22585	18662	11907	7395	4794	3910	4108	5726	7831	11649
43	11605	14497	13809	13361	14076	15912	20328	22159	18424	11850	7226	4593	3769	3937	5567	7725	11605
44	11524	14476	13756	13344	14087	15875	20243	21593	18356	11822	7038	4413	3642	3782	5398	7646	11524
45	11460	14383	13704	13348	14095	15824	20086	21366	18340	11792	6846	4250	3527	3640	5226	7555	11460
46	11420	14366	13674	13368	14101	15777	19894	21310	18360	11767	6640	4109	3429	3515	5049	7471	11420

47	11409	14388	13635	13395	14094	15756	19739	21341	18406	11751	6424	3976	3338	3401	4872	7395	11409
48	11397	14422	13610	13421	14083	15767	19668	21352	18448	11733	6196	3855	3254	3298	4692	7313	11397
49	11379	14466	13582	13452	14045	15785	19639	21384	18476	11697	5964	3749	3175	3202	4514	7223	11379
50	11377	14510	13576	13482	13958	15834	19652	21445	18536	11672	5732	3644	3106	3115	4338	7139	11377
51	11370	14547	13581	13491	13829	15890	19683	21509	18556	11625	5493	3554	3043	3031	4166	7056	11370
52	11369	14606	13605	13463	13637	15925	19719	21560	18573	11572	5257	3469	2989	2956	3999	6977	11369
53	11376	14678	13641	13389	13375	15957	19777	21651	18589	11505	5041	3388	2951	2884	3846	6893	11376
54	11379	14758	13698	13261	13029	15968	19845	21701	18575	11442	4836	3314	2927	2811	3705	6809	11379
55	11391	14834	13769	13064	12586	15934	19921	21751	18568	11342	4660	3248	2907	2742	3576	6724	11391
56	11410	14942	13846	12801	12076	15836	19990	21803	18560	11242	4498	3187	2885	2675	3455	6628	11410
57	11431	15032	13939	12458	11430	15674	20079	21831	18535	11112	4353	3126	2849	2613	3346	6527	11431
58	11479	15145	14038	12028	10651	15430	20162	21888	18498	10970	4216	3065	2791	2555	3246	6436	11479
59	11521	15259	14129	11471	9692	15092	20251	21937	18437	10788	4091	3013	2725	2504	3152	6328	11521
60	11572	15382	14220	10798	8522	14611	20322	21976	18371	10615	3971	2965	2660	2459	3068	6212	11572
61	11636	15507	14289	9946	7136	13986	20376	22002	18311	10410	3851	2921	2599	2409	2988	6067	11636
62	11717	15647	14322	8973	5766	13172	20423	22026	18238	10186	3740	2876	2543	2364	2913	5913	11717
63	11796	15809	14334	7749	4478	12113	20420	22072	18141	9946	3625	2830	2487	2325	2840	5746	11796
64	11867	15969	14287	6429	3628	10843	20375	22097	18072	9705	3511	2787	2426	2286	2772	5562	11867
65	11970	16155	14186	5083	2779	9199	20288	22158	17963	9419	3409	2733	2361	2254	2704	5371	11970
66	12051	16365	14005	3835	1934	7380	20142	22203	17802	9116	3309	2661	2287	2217	2631	5171	12051
67	12166	16575	13739	2793	1428	5518	19916	22224	17597	8777	3209	2572	2192	2176	2561	4977	12166
68	12326	16815	13310	2032	1080	4167	19604	22227	17337	8375	3109	2464	2079	2128	2495	4803	12326
69	12529	17120	12725	1654	916	2816	19197	22214	16930	7935	3009	2332	1952	2071	2440	4631	12529
70	12784	17491	11939	1284	833	1465	18659	22042	16220	7448	2892	2170	1709	1995	2396	4455	12784
71	13106	17942	10955	915	771	1061	17990	21695	15006	6932	2753	1983	1310	1892	2362	4258	13106
72	13478	18487	9772	801	712	893	17159	20816	13302	6387	2585	1776	910	1767	2333	4078	13478
73	13815	19183	8421	716	653	786	16095	19330	11306	5820	2382	1555	735	1563	2298	3903	13815
74	13942	19993	6946	646	600	713	14814	17158	9112	5273	2148	1305	600	1358	2250	3747	13942
75	13732	20905	5466	581	553	649	13229	14393	6932	4700	1886	978	499	1153	2181	3604	13732
76	13035	21757	4079	524	515	593	11448	11287	4993	4089	1611	676	443	786	2076	3487	13035
77	11782	22264	2902	473	473	541	9502	8181	3832	3422	1316	460	408	494	1927	3377	11782
78	9938	21945	1993	430	432	491	7471	6014	2670	2755	887	349	384	357	1711	3256	9938
79	7758	20191	1595	402	395	451	5508	3848	1517	2090	448	297	364	301	1256	3053	7758
80	5781	16482	1209	383	358	421	4040	1682	936	1548	301	259	344	263	796	2807	5781
81	4072	11598	822	353	317	384	2573	889	582	1117	259	230	322	230	335	2478	4072
82	2648	6990	679	311	280	335	1131	574	388	807	223	205	283	203	256	2113	2648
83	1609	3676	569	263	247	285	659	444	275	517	188	180	225	180	211	1770	1609
84	1066	1799	475	223	214	245	466	369	203	211	154	159	183	158	175	1237	1066
85	536	1342	391	192	180	210	360	309	156	137	121	133	138	130	142	698	536
86	290	899	316	163	143	172	281	254	120	107	89	105	103	100	108	160	290
87	162	455	245	126	99	122	206	198	87	80	57	66	66	65	74	99	162
88	94	319	162	76	56	68	111	128	54	51	27	26	27	31	43	68	94
89	39	147	60	22	13	15	31	37	25	24	7	2	2	3	15	32	39
90	18	27	11	3	2	6	15	19	20	23	7	1	1	2	12	18	18
91	17	20	8	2	2	5	13	17	20	24	8	1	1	2	13	19	17
92	17	18	7	2	2	5	12	16	21	26	9	1	1	2	16	21	17
93	18	17	7	2	2	4	11	15	22	27	10	1	1	1	17	23	18
94	19	16	7	2	2	4	10	15	23	28	12	2	1	2	20	25	19
95	20	16	6	2	2	3	9	14	23	29	13	2	1	2	22	28	20

96	22	16	6	2	2	3	9	13	24	30	15	2	1	3	24	30	22
97	24	15	6	2	2	3	8	13	25	31	17	2	1	4	26	32	24
98	25	15	6	2	2	3	8	13	25	31	18	3	1	5	28	34	25
99	27	15	6	2	2	3	7	13	26	31	19	4	2	7	30	35	27
100	28	15	6	3	2	3	7	13	26	31	21	4	2	8	31	37	28
101	29	15	6	3	2	3	6	13	27	31	22	5	3	10	33	38	29
102	30	16	6	3	2	3	6	13	27	31	23	6	4	12	34	38	30
103	30	16	6	3	3	3	6	13	27	31	24	8	5	14	35	38	30
104	31	16	6	3	3	3	6	14	27	31	25	9	5	15	35	39	31
105	32	17	6	4	3	3	6	14	27	32	26	10	7	17	36	40	32
106	33	18	6	4	3	3	6	15	28	33	26	11	8	19	37	41	33
107	35	19	7	4	3	3	6	15	29	34	26	13	9	20	37	42	35
108	36	20	7	4	4	3	6	16	29	35	26	14	10	21	38	43	36
109	37	20	7	4	4	3	6	16	30	35	26	15	12	23	38	43	37
110	37	21	8	5	4	4	6	16	31	35	26	16	13	24	38	44	37
111	38	21	8	5	4	4	6	16	30	35	26	17	14	24	39	44	38
112	38	22	8	5	4	4	6	16	29	35	26	18	15	25	39	44	38
113	38	22	9	5	4	4	6	15	29	35	26	18	16	26	39	44	38
114	39	22	10	5	4	4	6	15	29	35	26	18	17	26	40	44	39
115	39	22	10	6	4	4	7	14	29	32	26	18	18	26	40	43	39
116	40	20	10	6	4	4	7	12	29	28	26	19	19	26	41	40	40
117	40	19	11	6	4	4	7	12	27	26	27	19	20	27	41	38	40
118	40	19	11	6	5	4	8	12	25	27	27	20	20	27	42	39	40
119	39	21	12	6	5	5	8	13	25	29	27	20	21	27	42	42	39
120	40	23	12	6	5	5	8	14	25	31	27	20	22	28	43	46	40
121	42	24	12	7	5	5	8	15	27	32	26	21	23	28	43	48	42
122	45	25	13	7	5	5	8	15	28	32	26	21	23	29	42	48	45
123	47	26	12	7	6	5	8	15	29	33	25	22	24	29	41	48	47
124	47	26	13	8	6	5	8	15	29	33	24	22	24	30	40	48	47
125	46	26	13	8	6	5	8	15	29	33	23	22	24	31	39	47	46
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Luminaire Report Summary

IESNA:LM-63-2002

[TEST]

[TESTDATE] 2015-12-23

[TESTLAB] Standard-Tech Co. Ltd

[ISSUEDATE] 2015-12-23 22:29:00

[MANUFAC] SARIN Energy Inc.

[LUMINAIRE] SES-SHOEBOX-4000-400 277V

[_TOTALLUMINAIRELUMENS] 52569

[_LAMPPOSITION] 0,0

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

1220.21 1220.21 2.32 2.3210- 20 3543.44 4763.64 9.06 9.0620- 30 5656.07 10419.72

19.82 19.8230- 40 7581.22 18000.94 34.24 34.2440- 50 9002.28 27003.22 51.37

51.3750- 60 9870.84 36874.06 70.14 70.1460- 70 9136.50 46010.56 87.52 87.5270- 80

5807.27 51817.83 98.57 98.5780- 90 638.86 52456.69 99.78 99.7890-100 13.47

52470.16 99.81 99.81100-110 18.57 52488.73 99.85 99.85110-120 20.78 52509.51 99.88

99.88120-130 20.67 52530.17 99.92 99.92130-140 15.58 52545.75 99.95 99.95140-150

10.53 52556.28 99.97 99.97150-160 7.53 52563.81 99.99 99.99160-170 4.54 52568.35

100.00 100.00170-180 1.73 52570.08 100.00 100.00

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.