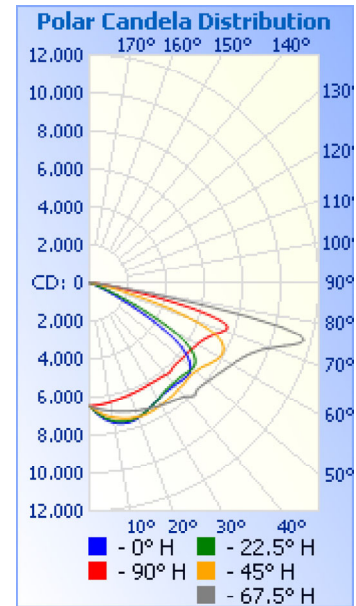


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SBN 185W - 120V
Manufacturer: SARIN Energy Inc.
Luminaire: SES-SBN-3000-185 120V
Lamp Output: Total luminaire Lumens: 25202.4
Max Candela: 11,608.4 at Horizontal: 67.5°, Vertical: 75°
Input Wattage: 183.1
Luminous Opening: Point
Test Date: 2016-10-09
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 7 X 7

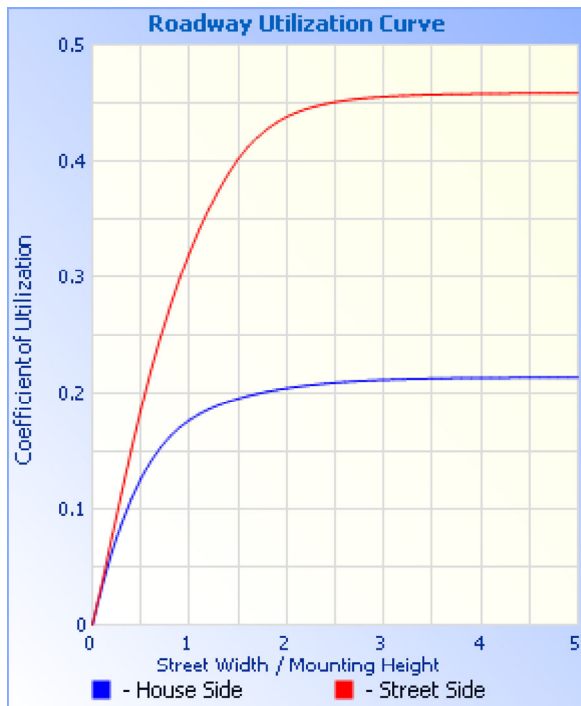
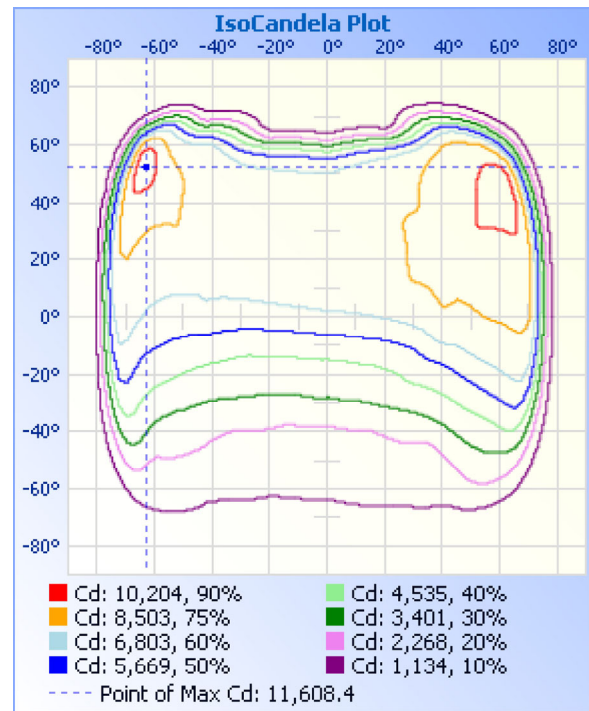
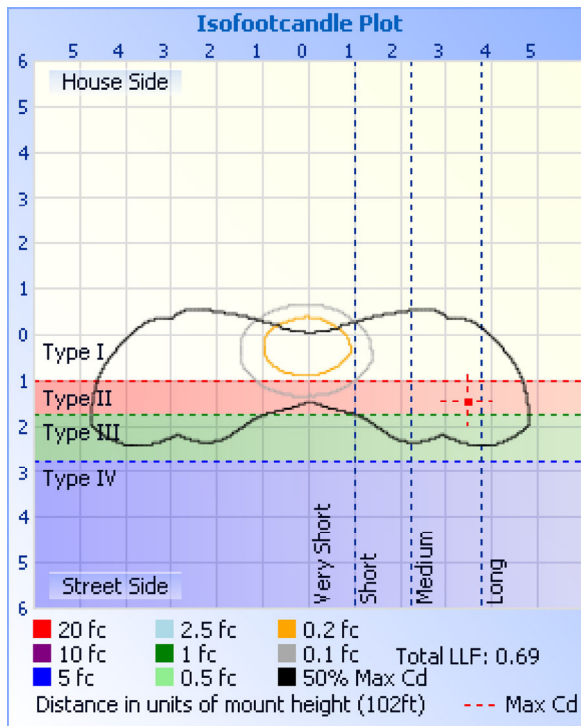


Roadway Summary		
Cutoff Classification:	SEMICUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	10.9	
Max Cd, 80 to <90 Deg:	3,442.4	
	Lumens	% Lamp
Downward Street Side:	17,043.0	67.6%
Downward House Side:	8,106.6	32.2%
Downward Total:	25,149.5	99.8%
Upward Street Side:	20.1	0.1%
Upward House Side:	34.4	0.1%
Upward Total:	54.5	0.2%
Total Lumens:	25,204.1	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.7%	24,620.5	147.5	137.4
Beam (50%):	71%	17,905.7	137.1	77.1
Total:	100%	25,193.8		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	5,165.8	20.5%
0-40	8,800.3	34.9%
0-60	17,917.8	71.1%
60-90	7,230.1	28.7%
70-100	2,787.6	11.1%
90-120	21.8	0.1%
0-90	25,147.9	99.8%
90-180	54.5	0.2%
0-180	25,202.4	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	613.4	2.4%	90-100	5.0	0%
10-20	1,770.6	7.0%	100-110	7.5	0%
20-30	2,781.8	11.0%	110-120	9.3	0%
30-40	3,634.5	14.4%	120-130	9.4	0%
40-50	4,332.0	17.2%	130-140	8.0	0%
50-60	4,785.5	19.0%	140-150	6.3	0%
60-70	4,447.5	17.6%	150-160	4.8	0%
70-80	2,623.6	10.4%	160-170	3.0	0%
80-90	159.0	0.6%	170-180	1.3	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	23.2 fc	26.6 ft	84.9 ft
33.3ft	5.85 fc	53.1 ft	169.3 ft
50.0ft	2.59 fc	79.7 ft	254.2 ft
66.7ft	1.46 fc	106.3 ft	339.1 ft
83.3ft	0.93 fc	132.7 ft	423.5 ft
100.0ft	0.65 fc	159.3 ft	508.4 ft

■ Vert. Spread: 77.1°
■ Horiz. Spread: 137.1°

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	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	1.00	1.00	1.00
1	1.08	1.03	.98	.94	1.05	1.00	.96	.83	.96	.92	.89	.92	.89	.86	.88	.86	.84	.82	.82	.82	.82
2	.97	.88	.80	.74	.94	.86	.79	.67	.82	.76	.71	.79	.74	.69	.75	.71	.68	.65	.65	.65	.65
3	.87	.75	.67	.59	.84	.74	.66	.55	.71	.64	.58	.68	.62	.57	.65	.60	.56	.53	.53	.53	.53

4	.79	.66	.56	.49	.77	.64	.55	.46	.62	.54	.48	.59	.53	.47	.57	.51	.46	.44
5	.72	.58	.48	.41	.70	.57	.48	.39	.55	.47	.40	.53	.45	.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	.37	.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	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484	6484
1	6613	6600	6569	6528	6473	6430	6384	6358	6352	6367	6397	6443	6495	6539	6584	6607	6613
2	6738	6710	6653	6571	6463	6372	6280	6224	6211	6242	6307	6401	6505	6598	6681	6723	6738
3	6856	6815	6735	6613	6454	6313	6177	6094	6073	6118	6216	6357	6513	6659	6773	6833	6856
4	6967	6918	6811	6650	6441	6254	6069	5956	5928	5985	6123	6310	6523	6719	6863	6938	6967
5	7070	7012	6884	6682	6428	6191	5961	5818	5784	5854	6028	6260	6535	6775	6950	7037	7070
6	7165	7097	6951	6713	6415	6127	5852	5681	5640	5720	5930	6212	6548	6834	7037	7129	7165
7	7250	7176	7014	6744	6402	6061	5740	5543	5496	5589	5830	6166	6562	6895	7119	7215	7250
8	7326	7245	7072	6774	6389	5993	5631	5411	5357	5458	5734	6120	6579	6958	7198	7297	7326
9	7391	7307	7123	6803	6373	5923	5522	5283	5219	5331	5638	6077	6595	7020	7277	7369	7391
10	7451	7364	7171	6834	6356	5852	5411	5149	5084	5211	5544	6036	6610	7077	7352	7438	7451
11	7501	7409	7215	6869	6337	5779	5299	5022	4954	5090	5452	5993	6628	7136	7420	7500	7501
12	7539	7448	7257	6904	6320	5704	5188	4896	4825	4974	5362	5952	6648	7194	7483	7554	7539
13	7569	7479	7297	6936	6304	5632	5077	4775	4702	4855	5273	5912	6667	7258	7545	7600	7569
14	7594	7501	7337	6962	6289	5564	4975	4658	4585	4743	5183	5872	6687	7323	7605	7642	7594
15	7609	7516	7374	6990	6275	5495	4876	4548	4477	4641	5095	5827	6716	7387	7659	7678	7609
16	7610	7526	7402	7021	6262	5425	4775	4441	4374	4543	5015	5781	6746	7452	7711	7707	7610
17	7600	7532	7423	7052	6250	5359	4677	4344	4275	4450	4932	5737	6771	7516	7759	7730	7600
18	7584	7530	7442	7083	6241	5296	4583	4252	4183	4366	4851	5695	6796	7585	7805	7739	7584
19	7559	7517	7461	7115	6228	5232	4494	4164	4098	4287	4769	5654	6821	7657	7851	7741	7559
20	7525	7500	7482	7148	6220	5164	4411	4081	4015	4207	4697	5614	6847	7722	7895	7735	7525
21	7486	7472	7496	7178	6216	5105	4333	3998	3936	4129	4629	5576	6881	7786	7936	7719	7486
22	7444	7436	7503	7202	6210	5045	4258	3920	3860	4056	4563	5544	6917	7850	7972	7699	7444
23	7404	7399	7507	7227	6202	4985	4185	3840	3787	3985	4499	5509	6954	7918	8002	7685	7404
24	7369	7370	7505	7259	6198	4921	4114	3766	3711	3915	4437	5474	6988	7982	8026	7668	7369
25	7324	7332	7502	7285	6189	4856	4051	3695	3633	3846	4376	5446	7022	8060	8050	7641	7324
26	7276	7282	7498	7315	6182	4794	3985	3616	3552	3776	4324	5413	7055	8139	8080	7613	7276
27	7230	7233	7487	7345	6177	4742	3916	3535	3468	3704	4270	5381	7096	8216	8105	7583	7230
28	7186	7192	7467	7377	6171	4687	3854	3455	3376	3626	4216	5353	7148	8289	8125	7556	7186
29	7147	7153	7443	7406	6163	4631	3795	3371	3266	3549	4167	5332	7194	8360	8144	7529	7147
30	7109	7109	7429	7432	6160	4580	3741	3273	3157	3472	4116	5309	7237	8438	8165	7510	7109
31	7064	7065	7416	7458	6166	4531	3682	3174	3048	3393	4082	5291	7292	8516	8185	7488	7064
32	7024	7015	7396	7485	6173	4485	3623	3075	2928	3308	4057	5288	7352	8592	8211	7463	7024
33	6994	6970	7373	7526	6176	4446	3568	2973	2805	3198	4038	5315	7408	8672	8244	7441	6994
34	6978	6930	7356	7552	6183	4413	3508	2863	2683	3088	3990	5367	7471	8761	8276	7420	6978
35	6974	6899	7346	7573	6191	4391	3441	2749	2554	2978	3920	5401	7565	8846	8309	7408	6974
36	6975	6882	7336	7600	6197	4357	3373	2633	2427	2865	3851	5405	7682	8923	8348	7407	6975
37	6975	6868	7318	7643	6201	4312	3306	2518	2311	2748	3783	5387	7847	9023	8388	7391	6975
38	6968	6854	7292	7679	6220	4276	3231	2403	2201	2631	3712	5334	8024	9146	8425	7379	6968
39	6962	6846	7268	7723	6244	4233	3155	2291	2094	2514	3631	5267	8155	9350	8480	7370	6962
40	6964	6844	7246	7782	6273	4191	3080	2184	1996	2402	3559	5216	8227	9676	8572	7361	6964
41	6977	6845	7245	7879	6290	4148	3000	2082	1912	2296	3480	5185	8225	9957	8689	7366	6977
42	6997	6847	7246	8006	6292	4107	2917	1990	1836	2195	3395	5164	8133	10076	8750	7372	6997
43	7018	6844	7243	8078	6270	4067	2824	1905	1768	2108	3295	5144	8073	9871	8725	7388	7018
44	7035	6852	7212	8012	6235	4026	2730	1829	1708	2029	3195	5134	8063	9655	8677	7401	7035
45	7051	6876	7197	7940	6218	3991	2637	1762	1656	1961	3094	5119	8077	9591	8623	7411	7051
46	7063	6901	7185	7939	6222	3955	2541	1702	1606	1895	2992	5106	8104	9593	8558	7437	7063

47	7058	6934	7172	7954	6218	3916	2441	1650	1562	1836	2879	5090	8149	9627	8527	7464	7058
48	7032	6963	7185	7977	6228	3878	2346	1601	1522	1784	2767	5072	8201	9657	8532	7493	7032
49	6982	6990	7209	8014	6242	3843	2254	1555	1488	1733	2653	5066	8249	9704	8549	7524	6982
50	6896	7007	7232	8052	6256	3807	2163	1515	1461	1685	2541	5048	8308	9755	8577	7549	6896
51	6779	7008	7267	8089	6270	3776	2078	1477	1441	1639	2435	5027	8350	9803	8622	7565	6779
52	6616	6987	7311	8138	6279	3735	1999	1440	1435	1598	2329	5016	8387	9853	8666	7556	6616
53	6411	6922	7356	8181	6295	3694	1924	1402	1431	1563	2237	4990	8429	9905	8714	7524	6411
54	6164	6830	7430	8221	6318	3653	1854	1369	1422	1528	2151	4956	8473	9956	8762	7458	6164
55	5856	6693	7504	8277	6337	3611	1790	1338	1402	1498	2076	4917	8516	10000	8820	7357	5856
56	5491	6506	7580	8332	6356	3561	1731	1310	1372	1472	2002	4871	8558	10064	8900	7214	5491
57	5048	6257	7652	8393	6387	3516	1682	1284	1339	1450	1938	4810	8593	10129	8971	7023	5048
58	4522	5957	7728	8454	6419	3461	1633	1263	1308	1428	1878	4750	8624	10201	9047	6780	4522
59	3938	5580	7797	8525	6465	3392	1589	1242	1275	1410	1821	4682	8657	10267	9114	6476	3938
60	3317	5113	7850	8594	6504	3326	1551	1222	1245	1392	1770	4604	8695	10321	9174	6095	3317
61	2705	4566	7880	8665	6539	3232	1509	1200	1214	1373	1723	4510	8740	10387	9239	5615	2705
62	2156	3966	7889	8737	6591	3139	1473	1180	1180	1350	1677	4417	8797	10464	9280	5039	2156
63	1668	3323	7860	8843	6648	3044	1434	1153	1144	1325	1632	4328	8857	10539	9297	4376	1668
64	1297	2650	7807	8938	6724	2938	1399	1127	1105	1295	1589	4234	8910	10603	9280	3631	1297
65	929	2013	7701	9053	6803	2835	1363	1099	1059	1255	1546	4117	8970	10693	9229	2831	929
66	657	1566	7541	9184	6894	2737	1326	1063	1004	1205	1507	4000	9020	10805	9122	2051	657
67	495	1124	7309	9357	7016	2645	1285	1024	938	1143	1470	3882	9035	10936	8953	1558	495
68	427	682	6983	9536	7143	2552	1247	976	865	1071	1430	3734	9019	11074	8724	1068	427
69	389	484	6547	9746	7291	2452	1209	920	785	983	1381	3576	8899	11215	8415	578	389
70	359	395	5975	10021	7427	2357	1172	852	628	882	1319	3363	8552	11307	7995	435	359
71	332	349	5276	10351	7553	2260	1133	775	444	768	1240	3151	7913	11255	7449	379	332
72	307	314	4491	10713	7594	2167	1085	688	351	652	1144	2938	7020	10945	6759	339	307
73	280	284	3634	11117	7472	2079	1027	597	300	540	1026	2682	5838	10228	5908	308	280
74	257	259	2787	11461	7121	1986	959	494	262	425	893	2397	4560	9008	4923	282	257
75	240	235	2048	11608	6481	1889	874	355	243	312	748	2076	3295	7372	3874	258	240
76	224	214	1612	11336	5566	1787	773	244	230	230	604	1744	2214	5503	2882	235	224
77	204	195	1182	10338	4481	1663	661	180	219	178	468	1385	1641	3638	2021	212	204
78	181	178	753	8442	3395	1502	515	149	208	151	298	1055	1082	2090	1514	193	181
79	161	166	541	5936	2312	1306	284	132	195	133	175	767	523	1487	1010	178	161
80	141	151	397	3442	1467	1088	149	118	174	120	140	534	311	893	506	160	141
81	121	133	306	1576	866	862	126	106	141	107	122	374	203	299	327	139	121
82	103	111	239	967	504	665	108	96	117	97	106	264	145	223	230	114	103
83	85	90	194	381	323	488	93	87	102	88	91	180	112	187	181	93	85
84	69	74	154	252	209	224	79	80	92	80	77	94	89	157	142	76	69
85	55	62	121	199	130	79	66	72	81	73	63	68	70	127	108	64	55
86	40	51	90	157	83	59	53	63	67	64	50	53	54	99	79	51	40
87	23	33	68	116	53	44	42	50	47	47	38	41	37	74	57	30	23
88	7	16	37	65	27	24	23	29	28	28	21	23	18	37	24	12	7
89	0	1	7	18	9	6	3	3	3	4	4	10	9	10	6	1	0
90	0	0	4	11	7	6	3	0	0	0	3	10	9	8	5	1	0
91	0	0	3	9	7	7	3	0	0	0	3	11	9	7	4	1	0
92	0	0	3	9	7	7	4	0	0	0	4	11	9	6	4	1	0
93	0	0	2	8	7	8	4	0	0	0	4	12	10	6	3	0	0
94	0	0	2	7	8	9	5	0	0	0	5	13	10	5	3	0	0
95	0	0	2	7	8	10	6	0	0	0	5	14	11	5	3	0	0

96	0	0	2	7	9	11	7	0	0	0	6	14	11	5	2	0	0
97	0	0	2	7	9	12	8	0	0	1	7	15	12	5	2	0	0
98	0	0	2	7	10	13	9	1	0	1	7	15	12	5	2	0	0
99	0	1	2	7	11	13	9	1	0	1	7	15	12	5	2	0	0
100	0	1	2	7	11	14	10	2	0	1	8	15	12	5	2	0	0
101	0	1	2	7	12	15	10	2	0	2	9	15	13	5	2	1	0
102	1	1	2	7	12	15	10	3	1	2	9	15	13	5	2	1	1
103	1	1	2	7	13	16	11	3	1	3	10	15	14	6	2	1	1
104	1	1	2	7	14	16	11	4	1	3	10	15	14	6	2	1	1
105	1	1	2	8	14	16	12	4	2	4	11	15	15	6	2	1	1
106	1	1	2	8	15	16	12	5	2	4	11	15	15	7	2	1	1
107	1	1	3	8	15	16	13	5	3	5	11	16	16	7	2	1	1
108	1	2	3	9	16	16	13	6	3	5	11	17	16	7	2	1	1
109	1	2	3	9	16	17	13	7	3	6	11	18	16	8	2	1	1
110	1	2	3	10	16	17	13	7	4	6	11	18	16	8	3	1	1
111	1	2	3	10	17	18	13	8	4	7	11	19	17	8	3	1	1
112	1	2	4	10	17	19	13	7	5	7	11	19	17	8	3	1	1
113	2	2	4	11	17	19	13	7	5	7	12	19	17	8	3	1	2
114	2	2	4	11	17	20	13	8	5	7	12	19	17	9	3	1	2
115	2	2	4	11	17	20	14	7	6	7	12	19	17	9	3	2	2
116	2	2	4	11	17	20	14	7	6	7	12	18	17	9	3	1	2
117	2	2	5	12	17	20	14	7	6	7	13	18	17	9	4	1	2
118	2	2	5	12	17	20	15	7	6	7	13	18	17	9	4	2	2
119	2	2	5	12	17	20	16	8	7	7	13	17	17	9	4	2	2
120	2	2	5	12	16	20	16	8	7	8	13	17	17	9	4	2	2
121	2	3	5	12	16	20	16	9	7	9	13	16	17	9	4	3	2
122	3	3	6	12	16	20	16	9	8	9	13	15	17	9	4	3	3
123	3	4	6	12	16	19	15	10	8	10	12	15	17	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	13	16	18	14	12	9	11	12	15	16	9	5	4	4
126	4	4	6	13	16	18	14	13	10	11	12	15	16	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 15:58:16
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-SBN-3000-185 120V
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 25202.4
[OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 613.39
613.39 2.43 2.4310- 20 1770.62 2384.02 9.46 9.4620- 30 2781.72 5165.74 20.50
20.5030- 40 3634.93 8800.67 34.92 34.9240- 50 4332.67 13133.34 52.11 52.1150- 60
4786.19 17919.53 71.10 71.1060- 70 4446.87 22366.40 88.75 88.7570- 80 2621.99
24988.39 99.15 99.1580- 90 158.87 25147.25 99.78 99.7890-100 5.03 25152.29 99.80
99.80100-110 7.48 25159.77 99.83 99.83110-120 9.27 25169.04 99.87 99.87120-130
9.35 25178.40 99.91 99.91130-140 8.03 25186.42 99.94 99.94140-150 6.28 25192.70
99.96 99.96150-160 4.77 25197.47 99.98 99.98160-170 3.05 25200.52 99.99 99.99170-
180 1.26 25201.78 100.00 100.00

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.