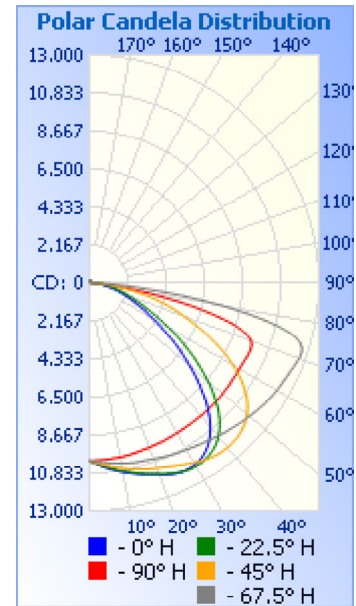


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 300W T3 - 277V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-300-T3-277V  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 39088.2  
**Max Candela:** 12,653.3 at Horizontal: 67.5°, Vertical: 71°  
**Input Wattage:** 288.82  
**Luminous Opening:** Point  
**Test Lab:** Belling Test Laboratory Co., LTD  
**Photometry :** Type C  
**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	123.6	
Max Cd, 80 to <90 Deg:	9,821.4	
	Lumens	% Lamp
Downward Street Side:	24,038.1	61.5%
Downward House Side:	14,781.0	37.8%
Downward Total:	38,819.0	99.3%
Upward Street Side:	129.7	0.3%
Upward House Side:	139.4	0.4%
Upward Total:	269.1	0.7%
<b>Total Lumens:</b>	<b>39,088.2</b>	<b>100%</b>

### Flood Summary

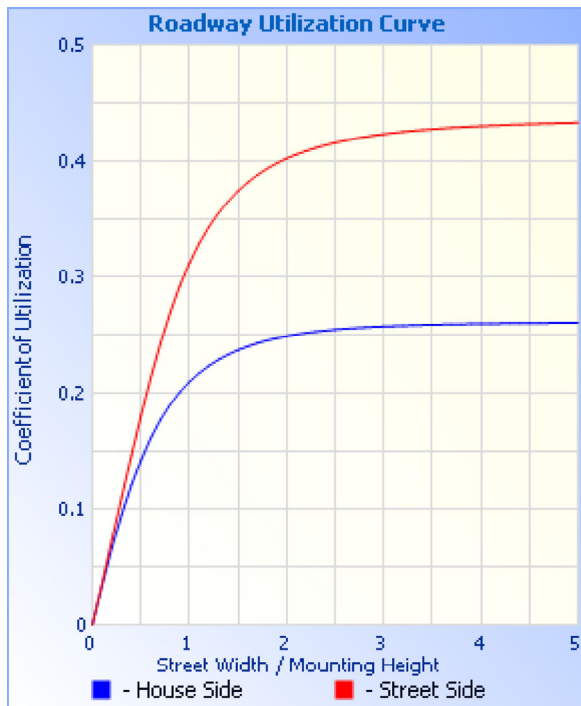
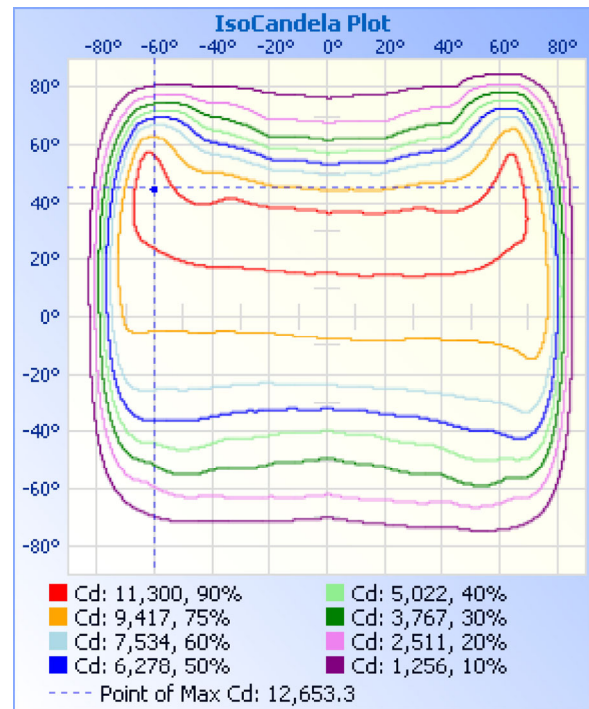
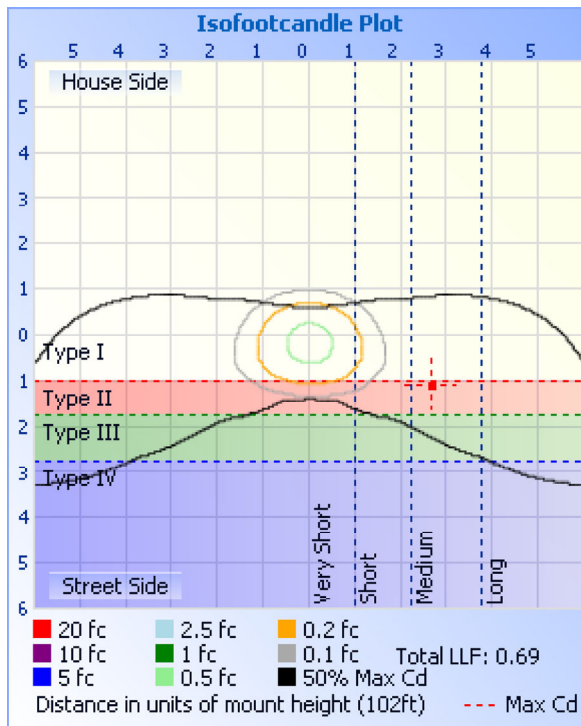
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	97.9%	38,282.9	165.9	150.6
Beam (50%):	79.4%	31,020.8	152.2	105.4
<b>Total:</b>	<b>100%</b>	<b>39,069.0</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	8,342.8	21.3%	21.3%
0-40	14,259.1	36.5%	36.5%
0-60	27,557.7	70.5%	70.5%
60-90	11,259.0	28.8%	28.8%
70-100	5,383.2	13.8%	13.8%
90-120	86.7	0.2%	0.2%
0-90	38,816.7	99.3%	99.3%
90-180	269.1	0.7%	0.7%
0-180	39,085.8	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	963.1	2.5%	90-100	32.4	0.1%
10-20	2,834.8	7.3%	100-110	25.6	0.1%
20-30	4,544.9	11.6%	110-120	28.7	0.1%
30-40	5,916.3	15.1%	120-130	34.4	0.1%
40-50	6,663.0	17.0%	130-140	40.5	0.1%
50-60	6,635.6	17.0%	140-150	40.8	0.1%
60-70	5,908.3	15.1%	150-160	35.1	0.1%
70-80	4,292.4	11.0%	160-170	23.3	0.1%
80-90	1,058.3	2.7%	170-180	8.3	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
16.7ft	36.2 fc	43.9 ft	135.1 ft
33.3ft	9.12 fc	87.5 ft	269.4 ft
50.0ft	4.04 fc	131.4 ft	404.5 ft
66.7ft	2.27 fc	175.2 ft	539.6 ft
83.3ft	1.46 fc	218.8 ft	673.9 ft
100.0ft	1.01 fc	262.7 ft	809.0 ft

Vert. Spread: 105.4°  
Horiz. Spread: 152.2°

**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	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	1.01	1.01	1.01	.99
1	1.07	1.02	.97	.92	1.04	.99	.95	.81	.95	.91	.88	.91	.88	.85	.87	.85	.82	.87	.85	.82	.80
2	.96	.87	.79	.73	.93	.85	.78	.66	.81	.75	.70	.78	.73	.68	.75	.70	.67	.75	.70	.67	.64
3	.87	.75	.66	.59	.84	.74	.65	.55	.70	.63	.57	.67	.61	.56	.65	.60	.55	.65	.60	.55	.53

4	.79	.66	.56	.49	.76	.64	.56	.46	.62	.54	.48	.59	.53	.47	.57	.51	.46	.44
5	.72	.58	.49	.42	.70	.57	.48	.39	.55	.47	.41	.53	.46	.40	.51	.45	.40	.37
6	.66	.52	.43	.36	.64	.51	.42	.34	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7	.61	.47	.38	.31	.60	.46	.37	.30	.44	.37	.31	.43	.36	.30	.41	.35	.30	.28
8	.57	.43	.34	.28	.55	.42	.33	.27	.41	.33	.27	.39	.32	.27	.38	.32	.27	.25
9	.53	.39	.30	.25	.52	.38	.30	.24	.37	.30	.24	.36	.29	.24	.35	.29	.24	.22
10	.50	.36	.28	.22	.48	.35	.27	.21	.34	.27	.22	.33	.26	.22	.32	.26	.22	.20

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	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108	10108
1	10198	10193	10177	10137	10102	10069	10035	10024	10023	10027	10051	10081	10113	10157	10184	10195	10198
2	10283	10269	10237	10170	10092	10029	9960	9935	9927	9936	9993	10050	10117	10202	10250	10281	10283
3	10375	10349	10291	10193	10086	9986	9886	9848	9839	9857	9930	10020	10120	10245	10316	10373	10375
4	10464	10421	10353	10221	10084	9942	9814	9748	9743	9755	9865	9987	10125	10280	10376	10454	10464
5	10547	10495	10408	10253	10085	9897	9743	9654	9644	9660	9798	9953	10132	10317	10438	10532	10547
6	10629	10565	10461	10285	10078	9858	9667	9561	9542	9576	9727	9925	10144	10358	10507	10605	10629
7	10707	10645	10531	10318	10069	9820	9599	9464	9436	9494	9660	9897	10155	10398	10569	10681	10707
8	10787	10725	10586	10352	10061	9779	9524	9360	9319	9395	9594	9866	10155	10438	10632	10764	10787
9	10864	10799	10639	10389	10058	9740	9447	9262	9209	9298	9531	9839	10165	10481	10696	10832	10864
10	10930	10874	10692	10413	10054	9696	9371	9161	9100	9201	9457	9805	10171	10525	10765	10899	10930
11	10997	10940	10751	10443	10048	9648	9293	9057	8988	9104	9389	9772	10184	10565	10825	10974	10997
12	11064	11002	10808	10468	10040	9590	9207	8952	8866	9001	9321	9739	10186	10606	10891	11041	11064
13	11138	11079	10868	10495	10026	9540	9124	8824	8813	8894	9247	9704	10191	10650	10948	11117	11138
14	11207	11151	10922	10520	10008	9486	9032	8766	8665	8834	9180	9661	10191	10684	11004	11179	11207
15	11278	11225	10976	10538	9992	9433	8940	8654	8544	8722	9106	9625	10190	10721	11063	11245	11278
16	11343	11295	11021	10556	9983	9380	8834	8539	8433	8604	9020	9576	10187	10744	11118	11313	11343
17	11408	11367	11065	10568	9965	9321	8813	8426	8311	8498	8932	9531	10180	10762	11171	11378	11408
18	11474	11432	11117	10585	9949	9269	8706	8311	8187	8391	8843	9488	10170	10780	11221	11441	11474
19	11543	11503	11167	10620	9944	9218	8611	8197	8047	8278	8808	9450	10178	10813	11269	11505	11543
20	11612	11571	11210	10647	9939	9172	8529	8066	7921	8154	8697	9403	10178	10845	11311	11582	11612
21	11698	11643	11250	10676	9929	9123	8440	7950	7793	8035	8621	9358	10181	10868	11358	11646	11698
22	11769	11710	11301	10705	9917	9070	8349	7836	7668	7922	8527	9315	10184	10898	11403	11708	11769
23	11832	11777	11357	10737	9916	9018	8248	7718	7541	7808	8441	9269	10178	10941	11457	11775	11832
24	11891	11847	11416	10768	9915	8968	8161	7601	7408	7686	8349	9228	10181	10977	11508	11834	11891
25	11935	11896	11477	10802	9912	8915	8070	7482	7263	7573	8256	9177	10173	11008	11560	11891	11935
26	11971	11953	11538	10829	9902	8853	7979	7347	7127	7443	8152	9120	10171	11049	11617	11936	11971
27	11982	11998	11604	10859	9889	8831	7877	7221	6989	7318	8060	9070	10163	11073	11681	11975	11982
28	11975	12038	11665	10888	9881	8799	7781	7096	6843	7193	7970	9018	10150	11109	11735	11992	11975
29	11958	12052	11730	10912	9875	8734	7684	6955	6689	7065	7882	8963	10137	11143	11789	11991	11958
30	11927	12055	11808	10943	9871	8687	7589	6827	6518	6928	7790	8916	10136	11172	11846	11985	11927
31	11884	12044	11868	10973	9862	8642	7490	6669	6365	6778	7697	8859	10123	11216	11894	11954	11884
32	11831	12020	11934	11010	9856	8591	7388	6529	6208	6643	7597	8828	10115	11250	11947	11913	11831
33	11759	11983	11997	11046	9852	8542	7290	6384	6037	6494	7498	8804	10101	11286	11992	11869	11759
34	11663	11940	12046	11085	9846	8498	7188	6235	5871	6348	7400	8750	10093	11317	12019	11807	11663
35	11551	11883	12088	11124	9843	8450	7087	6078	5704	6198	7292	8693	10085	11353	12033	11730	11551
36	11421	11816	12128	11168	9836	8402	6983	5913	5520	6038	7196	8644	10088	11393	12047	11647	11421
37	11254	11734	12162	11211	9837	8350	6863	5764	5355	5887	7083	8588	10086	11434	12052	11530	11254
38	11074	11635	12177	11249	9842	8292	6756	5609	5196	5741	6976	8537	10091	11470	12043	11407	11074
39	10879	11516	12183	11297	9845	8239	6642	5453	5033	5590	6866	8489	10086	11523	12024	11267	10879
40	10655	11368	12185	11345	9850	8186	6524	5306	4874	5440	6757	8434	10088	11570	11997	11102	10655
41	10416	11205	12184	11393	9850	8125	6400	5155	4703	5278	6637	8382	10103	11618	11959	10919	10416
42	10131	11024	12169	11443	9847	8067	6275	4999	4563	5134	6523	8323	10110	11661	11913	10716	10131
43	9848	10818	12148	11481	9847	8006	6138	4856	4422	4995	6395	8260	10102	11717	11864	10490	9848
44	9554	10589	12123	11529	9852	7953	6013	4724	4283	4861	6280	8200	10108	11771	11791	10246	9554
45	9235	10344	12074	11579	9856	7898	5884	4578	4162	4711	6153	8148	10109	11821	11724	9977	9235
46	8863	10054	12016	11623	9845	7834	5750	4452	4043	4586	6013	8086	10098	11870	11635	9679	8863

47	8554	9768	11945	11680	9847	7766	5599	4332	3927	4463	5880	8025	10092	11917	11524	9381	8554
48	8205	9470	11867	11722	9840	7695	5467	4215	3820	4346	5751	7961	10092	11960	11395	9070	8205
49	7857	9152	11759	11773	9835	7631	5333	4105	3709	4234	5622	7894	10104	12002	11271	8780	7857
50	7507	8832	11652	11815	9825	7551	5203	3992	3613	4117	5487	7824	10113	12046	11111	8431	7507
51	7133	8455	11517	11867	9812	7485	5070	3894	3519	4016	5340	7763	10103	12089	10939	8051	7133
52	6796	8108	11369	11913	9814	7397	4918	3795	3421	3915	5203	7694	10115	12125	10751	7719	6796
53	6467	7757	11199	11967	9813	7310	4787	3704	3330	3819	5066	7618	10121	12164	10553	7377	6467
54	6134	7402	11011	12007	9813	7218	4658	3608	3242	3721	4925	7537	10108	12200	10303	7042	6134
55	5802	7053	10776	12054	9802	7127	4533	3512	3149	3620	4781	7450	10120	12223	10051	6704	5802
56	5450	6676	10549	12091	9793	7010	4400	3417	3061	3528	4655	7366	10140	12238	9791	6336	5450
57	5136	6336	10312	12133	9798	6898	4279	3326	2973	3435	4528	7277	10149	12243	9515	6014	5136
58	4837	5992	10041	12167	9804	6777	4154	3229	2881	3336	4403	7176	10155	12243	9187	5685	4837
59	4551	5654	9728	12206	9810	6648	4037	3122	2780	3231	4279	7069	10177	12243	8860	5367	4551
60	4282	5321	9424	12235	9800	6511	3913	3013	2671	3128	4152	6950	10217	12232	8568	5055	4282
61	4008	4965	9111	12267	9803	6368	3774	2908	2570	3024	4020	6831	10237	12215	8238	4719	4008
62	3770	4644	8810	12297	9817	6216	3644	2792	2456	2915	3896	6695	10268	12195	7894	4424	3770
63	3552	4341	8436	12329	9829	6059	3512	2655	2331	2792	3758	6549	10302	12170	7515	4149	3552
64	3345	4055	8043	12362	9847	5890	3364	2519	2211	2670	3636	6423	10342	12155	7167	3892	3345
65	3120	3765	7691	12398	9868	5692	3201	2383	2096	2535	3486	6263	10376	12129	6821	3630	3120
66	2925	3516	7330	12435	9881	5495	3039	2235	1973	2392	3333	6097	10412	12098	6476	3405	2925
67	2734	3282	6971	12483	9882	5291	2875	2092	1828	2254	3187	5937	10465	12071	6134	3191	2734
68	2556	3054	6571	12532	9875	5057	2705	1912	1669	2096	3029	5761	10529	12045	5758	2982	2556
69	2387	2830	6228	12580	9842	4781	2511	1734	1463	1934	2853	5554	10591	12015	5430	2769	2387
70	2219	2639	5878	12622	9758	4500	2332	1581	1204	1750	2679	5340	10661	12006	5099	2585	2219
71	2066	2455	5543	12653	9574	4205	2156	1442	1018	1592	2507	5115	10701	11983	4781	2410	2066
72	1925	2280	5206	12650	9288	3853	1974	1299	874	1448	2328	4841	10707	11959	4429	2245	1925
73	1789	2124	4845	12581	8911	3506	1778	1121	783	1314	2136	4516	10642	11927	4114	2093	1789
74	1640	1966	4516	12423	8418	3105	1572	961	699	1166	1951	4160	10470	11868	3800	1942	1640
75	1488	1812	4186	12147	7726	2782	1419	828	629	1002	1752	3785	10130	11770	3501	1787	1488
76	1355	1665	3808	11665	6943	2476	1259	717	562	860	1557	3406	9646	11583	3185	1659	1355
77	1222	1544	3460	10998	6101	2194	1112	613	504	741	1393	3070	8990	11340	2898	1526	1222
78	1100	1409	3089	10122	5196	1921	973	526	443	631	1203	2714	8182	10991	2627	1396	1100
79	970	1283	2718	9097	4215	1660	832	451	397	534	1049	2413	7225	10495	2362	1265	970
80	860	1165	2340	7934	3361	1435	714	388	342	448	912	2115	6135	9821	2102	1148	860
81	753	1042	1932	6585	2562	1181	577	319	295	381	734	1824	4906	8825	1840	1034	753
82	645	919	1593	5385	1826	880	424	262	254	311	550	1567	3792	7717	1570	917	645
83	549	796	1279	4163	1231	664	320	212	205	253	398	1287	2865	6715	1321	803	549
84	465	684	976	2962	750	431	204	152	154	194	276	983	1890	5419	1096	701	465
85	384	568	737	2025	454	262	126	99	105	125	188	682	1192	4287	874	593	384
86	303	432	519	1198	267	149	75	50	71	78	113	340	689	3160	667	485	303
87	223	305	325	616	132	50	34	34	39	45	59	178	390	1983	493	368	223
88	138	175	160	258	58	38	25	19	20	22	39	89	216	1158	310	244	138
89	68	63	64	86	44	36	24	19	23	18	23	41	118	532	172	125	68
90	34	32	26	67	37	25	25	20	22	15	20	32	74	124	64	44	34
91	26	27	34	67	35	32	22	20	19	21	20	34	64	74	46	36	26
92	26	27	31	57	37	27	19	15	20	15	18	36	57	69	41	22	26
93	26	24	35	46	28	30	21	21	19	19	19	28	55	64	45	28	26
94	22	21	26	46	33	30	17	14	19	17	16	34	54	55	41	21	22
95	26	26	24	44	36	28	23	19	18	12	17	32	49	56	36	26	26

96	27	24	23	41	35	30	24	16	22	18	16	25	45	46	32	26	27
97	17	22	19	41	21	28	25	17	17	17	15	29	44	40	29	26	17
98	27	20	15	36	30	29	23	13	18	17	14	28	41	41	34	26	27
99	25	22	20	34	30	26	28	21	17	18	21	30	40	40	31	21	25
100	21	19	11	32	30	31	24	15	19	18	18	25	35	38	23	18	21
101	22	20	6	35	30	31	22	15	17	16	14	19	37	39	26	22	22
102	21	15	18	30	29	29	26	17	20	14	14	29	36	35	25	20	21
103	20	22	14	32	28	36	24	20	17	16	16	29	38	35	31	21	20
104	17	20	14	29	30	29	20	17	21	13	20	27	36	31	31	21	17
105	24	19	15	28	27	35	29	15	21	21	18	29	34	32	27	22	24
106	25	24	16	31	26	30	28	20	22	18	15	25	31	27	27	23	25
107	22	18	14	28	30	32	29	21	20	20	14	30	31	31	28	15	22
108	25	15	15	28	22	33	32	22	24	20	18	29	31	25	24	20	25
109	27	18	16	29	31	35	30	21	27	16	20	32	34	24	25	18	27
110	24	22	16	28	30	32	31	20	23	20	20	35	36	27	26	20	24
111	27	24	19	31	29	40	32	22	31	22	23	32	30	24	16	20	27
112	29	22	19	27	29	36	32	27	29	20	23	30	32	24	25	17	29
113	29	19	18	31	34	38	29	26	31	16	22	31	33	26	27	22	29
114	31	21	20	32	33	41	30	29	31	21	25	38	30	24	26	17	31
115	30	21	10	32	33	24	34	29	36	21	24	32	37	28	23	25	30
116	37	22	21	29	35	42	36	30	37	26	25	32	30	28	24	23	37
117	37	22	18	32	36	41	38	30	36	30	26	36	39	30	25	21	37
118	34	27	11	35	40	35	40	30	30	26	28	37	35	32	30	20	34
119	38	26	22	32	31	42	44	30	29	30	30	44	41	34	30	27	38
120	35	27	24	37	41	46	34	34	38	32	25	39	37	36	27	25	35
121	31	28	24	35	37	45	45	30	43	21	32	41	42	36	30	24	31
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123	37	28	23	40	41	45	40	20	37	35	34	26	49	38	35	25	37
124	38	27	31	35	39	51	47	40	38	39	31	40	43	43	33	29	38
125	34	30	25	36	43	44	49	42	41	44	40	47	50	40	31	32	34
126	30	34	29	41	46	48	45	29	47	43	36	39	48	43	36	24	30
127	39	35	26	46	40	54	54	46	48	44	37	43	50	35	32	24	39
128	34	28	21	47	41	47	50	49	50	47	45	51	42	46	39	34	34
129	42	29	35	48	49	53	56	49	52	51	44	45	41	43	41	37	42
130	41	32	36	49	41	55	57	50	51	48	44	41	41	41	44	38	41
131	42	45	33	39	51	58	55	50	56	53	39	57	55	41	42	37	42
132	36	42	37	50	54	56	58	52	58	49	53	51	57	49	45	31	36
133	42	43	40	46	45	55	59	56	63	49	56	54	60	49	44	40	42
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135	49	43	42	47	56	58	62	61	62	48	52	51	64	44	51	46	49
136	48	42	41	45	51	60	57	63	64	58	57	59	64	53	54	48	48
137	51	50	49	45	50	65	63	61	62	60	55	56	67	56	51	46	51
138	51	52	46	57	53	64	59	64	68	60	54	58	69	49	52	50	51
139	53	46	51	58	56	70	64	67	62	58	60	60	60	58	56	49	53
140	52	51	51	53	60	66	65	61	70	59	49	57	72	58	57	37	52
141	55	55	50	59	62	61	72	64	74	69	63	66	69	59	57	50	55
142	57	49	49	56	66	68	72	74	72	70	64	68	69	64	60	51	57
143	49	43	48	59	55	69	72	72	75	69	57	66	72	64	57	56	49
144	58	60	53	52	65	69	70	70	77	71	71	64	74	59	60	54	58

145	56	56	55	64	62	69	74	72	80	74	67	66	72	63	60	54	56
146	64	61	54	62	65	78	70	77	80	72	68	72	72	65	60	56	64
147	62	54	50	65	65	76	74	77	81	68	70	74	72	69	67	54	62
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152	69	65	57	70	68	76	79	84	84	80	75	71	82	68	70	62	69
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154	68	68	60	75	74	81	83	84	84	86	69	76	84	70	72	67	68
155	70	74	67	74	69	82	82	85	92	77	68	78	81	78	75	71	70
156	73	72	68	74	73	77	82	85	91	85	77	79	84	81	71	70	73
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158	73	73	72	69	79	83	79	81	93	83	75	80	89	77	78	74	73
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161	70	69	64	80	77	83	87	87	91	88	80	80	88	85	84	82	70
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163	80	82	74	76	81	84	88	84	87	89	80	79	85	85	81	78	80
164	77	81	75	81	79	87	90	92	90	90	80	82	85	83	84	82	77
165	82	79	73	86	84	83	91	87	90	84	80	80	83	81	84	80	82
166	83	80	74	80	77	83	86	90	88	85	80	79	87	84	85	76	83
167	82	84	74	84	82	85	88	87	91	83	78	81	88	86	83	82	82
168	85	84	75	84	77	85	88	87	91	83	78	80	91	86	84	85	85
169	79	80	74	82	83	89	92	88	86	88	82	82	88	81	85	84	79
170	83	85	80	80	81	84	90	90	91	91	78	84	89	87	85	83	83
171	84	81	75	87	83	90	88	89	89	90	83	85	87	90	90	83	84
172	83	83	78	84	88	89	93	87	92	83	86	86	85	87	88	84	83
173	87	85	81	82	85	90	93	93	92	90	84	87	87	86	85	86	87
174	88	86	78	86	87	91	95	86	93	88	78	84	89	88	81	88	88
175	86	83	80	82	83	90	91	90	90	92	83	85	95	87	87	86	86
176	81	82	79	83	88	91	94	91	92	90	81	86	85	88	87	91	81
177	86	85	83	85	90	89	92	93	92	91	84	83	90	90	90	88	86
178	87	88	81	87	90	91	90	92	90	89	83	84	91	90	88	87	87
179	86	88	83	85	91	88	87	90	89	90	80	85	87	91	89	88	86
180	86	89	79	82	94	91	92	83	414	92	85	87	89	88	92	86	86

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Belling Test Laboratory Co., LTD  
[ISSUE DATE] 2018-8-16 18:01  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SB7-4000-300-T3-277V  
[\_TOTALLUMINAIRELUMENS] 39085.8  
[TESTINST] GPM-3000  
[TESTDIST] 14.130 M  
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.