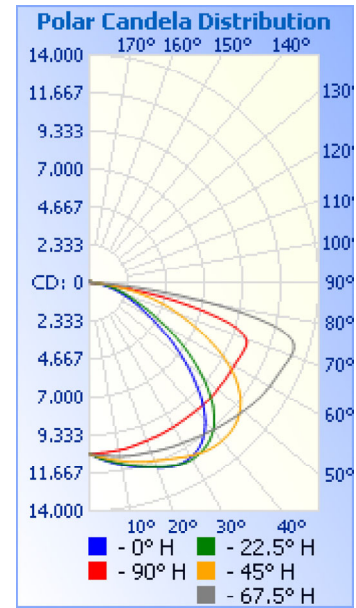


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Shoebox SB7 300W T3 - 120V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SB7-4000-300-T3  
**Lamp Output:** 1 lamp, rated Lumens/lamp: 40360.8  
**Max Candela:** 13,122.6 at Horizontal: 67.5°, Vertical: 71°  
**Input Wattage:** 303.99  
**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:	123.0	
Max Cd, 80 to <90 Deg:	10,034.9	
	Lumens	% Lamp
Downward Street Side:	24,835.2	61.5%
Downward House Side:	15,275.0	37.8%
Downward Total:	40,110.2	99.4%
Upward Street Side:	120.5	0.3%
Upward House Side:	130.1	0.3%
Upward Total:	250.6	0.6%
<b>Total Lumens:</b>	<b>40,360.8</b>	<b>100%</b>

### Flood Summary

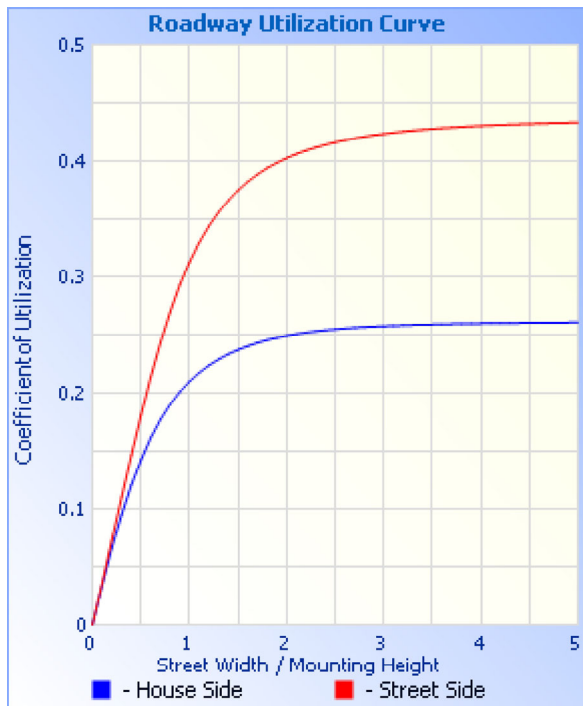
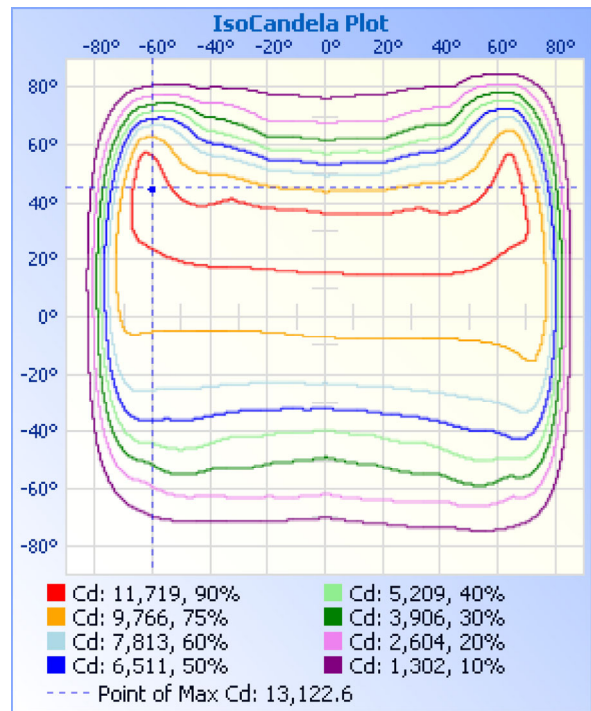
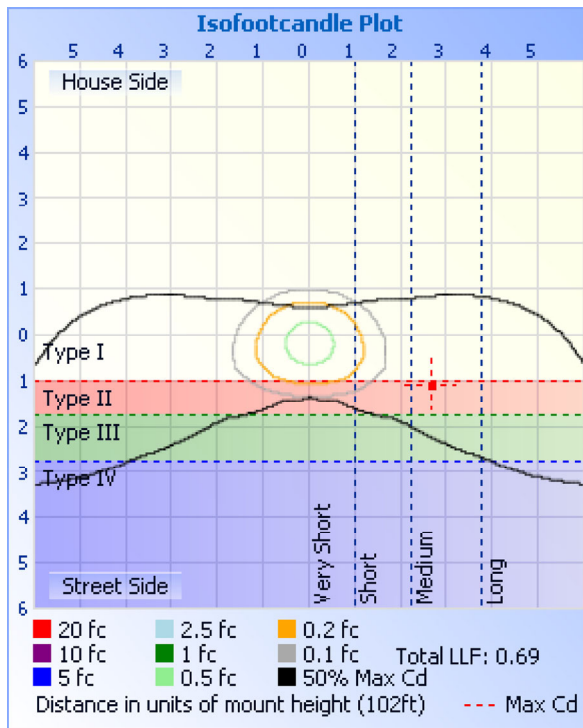
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98%	39,554.1	165.8	150.5
Beam (50%):	79.3%	32,020.4	152.1	105.3
<b>Total:</b>	<b>100%</b>	<b>40,340.6</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	8,623.9	21.4%	21.4%
0-40	14,740.3	36.5%	36.5%
0-60	28,481.4	70.6%	70.6%
60-90	11,626.4	28.8%	28.8%
70-100	5,546.9	13.7%	13.7%
90-120	76.5	0.2%	0.2%
0-90	40,107.8	99.4%	99.4%
90-180	250.5	0.6%	0.6%
0-180	40,358.3	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	995.2	2.5%	90-100	29.0	0.1%
10-20	2,929.7	7.3%	100-110	22.0	0.1%
20-30	4,699.0	11.6%	110-120	25.5	0.1%
30-40	6,116.4	15.2%	120-130	32.1	0.1%
40-50	6,884.7	17.1%	130-140	38.1	0.1%
50-60	6,856.4	17.0%	140-150	39.3	0.1%
60-70	6,108.5	15.1%	150-160	33.9	0.1%
70-80	4,437.1	11.0%	160-170	22.6	0.1%
80-90	1,080.8	2.7%	170-180	8.0	0%



**Illuminance at a Distance**

	Center Beam fc	Beam Width	
16.7ft	37.5 fc	43.8 ft	134.4 ft
33.3ft	9.42 fc	87.3 ft	268.1 ft
50.0ft	4.18 fc	131.0 ft	402.5 ft
66.7ft	2.35 fc	174.8 ft	537.0 ft
83.3ft	1.51 fc	218.3 ft	670.6 ft
100.0ft	1.04 fc	262.1 ft	805.1 ft

■ Vert. Spread: 105.3°  
■ Horiz. Spread: 152.1°

**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	0	50	30	20	0	50	30	20	0	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	1.06	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	.85	.82	.82	.80				
2	.96	.87	.79	.73	.93	.85	.78	.66	.81	.75	.70	.78	.73	.68	.75	.70	.67	.64	.64	.64				
3	.87	.75	.66	.59	.84	.74	.65	.55	.70	.63	.57	.67	.61	.56	.65	.60	.55	.53	.53	.53				

4	.79	.66	.56	.49	.77	.65	.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	.45	.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	.22	.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	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447	10447
1	10539	10537	10510	10474	10433	10403	10373	10358	10352	10365	10376	10419	10455	10494	10521	10544	10539
2	10631	10617	10572	10505	10429	10359	10294	10266	10255	10277	10314	10386	10454	10535	10593	10634	10631
3	10724	10708	10632	10531	10424	10315	10222	10172	10163	10176	10254	10356	10459	10578	10662	10721	10724
4	10814	10782	10692	10563	10421	10268	10135	10084	10061	10082	10185	10320	10464	10619	10727	10809	10814
5	10902	10859	10753	10595	10419	10225	10063	9981	9964	9989	10116	10285	10474	10659	10794	10886	10902
6	10985	10932	10817	10633	10415	10177	9994	9876	9854	9900	10053	10251	10480	10700	10856	10972	10985
7	11064	11007	10879	10664	10405	10139	9915	9778	9733	9808	9977	10226	10492	10746	10932	11051	11064
8	11154	11081	10935	10703	10400	10099	9832	9673	9626	9706	9908	10192	10497	10785	10999	11123	11154
9	11230	11166	10993	10735	10397	10060	9748	9573	9506	9608	9841	10163	10506	10831	11068	11204	11230
10	11300	11247	11049	10768	10390	10008	9674	9461	9397	9510	9768	10129	10518	10873	11130	11275	11300
11	11373	11321	11109	10798	10384	9959	9592	9363	9284	9407	9694	10096	10523	10916	11191	11350	11373
12	11449	11381	11169	10819	10378	9901	9511	9249	9170	9304	9622	10062	10529	10960	11263	11427	11449
13	11518	11455	11230	10849	10361	9849	9422	9142	9039	9204	9548	10027	10531	11005	11333	11496	11518
14	11591	11538	11284	10869	10341	9795	9326	9027	8952	9079	9478	9982	10530	11044	11389	11568	11591
15	11663	11618	11340	10891	10323	9737	9243	8942	8831	8996	9400	9942	10529	11077	11451	11638	11663
16	11731	11690	11389	10909	10313	9678	9151	8832	8707	8898	9316	9893	10527	11105	11506	11705	11731
17	11805	11765	11437	10927	10293	9617	9061	8700	8584	8779	9235	9849	10518	11127	11565	11774	11805
18	11874	11835	11492	10949	10280	9566	8953	8582	8441	8669	9139	9804	10512	11146	11619	11838	11874
19	11946	11904	11536	10972	10279	9515	8915	8462	8308	8553	9032	9769	10519	11178	11671	11917	11946
20	12023	11974	11580	11008	10271	9461	8807	8341	8180	8422	9010	9715	10519	11211	11719	11990	12023
21	12106	12056	11624	11043	10259	9414	8709	8218	8044	8303	8901	9670	10522	11239	11763	12060	12106
22	12180	12124	11684	11072	10247	9360	8616	8104	7916	8184	8811	9623	10516	11277	11813	12125	12180
23	12246	12195	11745	11100	10247	9310	8524	7967	7783	8063	8724	9577	10520	11313	11866	12196	12246
24	12305	12265	11806	11134	10248	9258	8429	7848	7635	7939	8621	9533	10520	11349	11918	12255	12305
25	12351	12322	11868	11167	10243	9208	8334	7724	7496	7806	8525	9485	10517	11390	11978	12317	12351
26	12384	12380	11935	11203	10234	9156	8232	7585	7359	7684	8426	9428	10514	11428	12043	12362	12384
27	12394	12428	11997	11238	10221	9100	8132	7456	7217	7556	8331	9378	10507	11460	12097	12395	12394
28	12384	12464	12071	11265	10216	9046	8034	7323	7065	7431	8227	9321	10494	11499	12154	12420	12384
29	12358	12485	12147	11293	10210	8990	7937	7183	6901	7292	8132	9268	10480	11527	12214	12418	12358
30	12328	12482	12213	11326	10202	8939	7842	7043	6730	7141	8037	9219	10476	11570	12271	12398	12328
31	12284	12467	12279	11352	10196	8886	7733	6899	6569	6999	7943	9161	10461	11611	12328	12368	12284
32	12226	12440	12345	11393	10192	8886	7632	6740	6407	6860	7848	9103	10454	11651	12379	12330	12226
33	12150	12399	12411	11433	10182	8838	7528	6588	6231	6709	7750	9049	10447	11689	12420	12275	12150
34	12047	12351	12464	11471	10178	8783	7427	6432	6061	6561	7637	9016	10434	11724	12445	12210	12047
35	11931	12291	12505	11515	10179	8731	7323	6275	5868	6402	7529	9016	10430	11763	12467	12129	11931
36	11791	12223	12542	11559	10170	8680	7204	6118	5694	6236	7422	8942	10431	11809	12482	12034	11791
37	11616	12132	12565	11603	10173	8618	7091	5948	5526	6083	7315	8883	10435	11846	12482	11922	11616
38	11427	12024	12588	11640	10182	8562	6980	5788	5361	5930	7196	8825	10433	11893	12473	11792	11427
39	11215	11897	12600	11691	10183	8508	6859	5626	5175	5770	7085	8776	10435	11941	12450	11628	11215
40	10987	11754	12594	11746	10188	8457	6740	5473	5014	5618	6973	8721	10448	11995	12416	11470	10987
41	10727	11584	12586	11797	10193	8395	6611	5320	4855	5446	6850	8664	10456	12051	12376	11274	10727
42	10432	11373	12574	11854	10191	8337	6470	5168	4709	5301	6731	8596	10464	12098	12333	11058	10432
43	10136	11152	12552	11894	10187	8275	6344	5013	4565	5156	6600	8539	10462	12154	12275	10827	10136
44	9837	10916	12519	11941	10196	8220	6215	4876	4420	5005	6477	8474	10464	12207	12210	10544	9837
45	9506	10661	12473	11989	10200	8160	6065	4738	4294	4868	6347	8417	10464	12269	12131	10266	9506
46	9131	10361	12409	12040	10193	8088	5934	4595	4172	4734	6214	8355	10460	12318	12023	9977	9131

47	8795	10064	12336	12093	10193	8025	5792	4470	4052	4607	6079	8292	10461	12362	11913	9664	8795
48	8436	9749	12244	12144	10188	7952	5652	4352	3945	4489	5948	8223	10452	12417	11790	9314	8436
49	8075	9421	12133	12199	10184	7885	5510	4238	3826	4362	5796	8152	10464	12452	11652	8950	8075
50	7719	9055	12015	12244	10178	7806	5361	4135	3729	4252	5660	8085	10466	12500	11488	8648	7719
51	7331	8695	11870	12305	10166	7729	5225	4020	3630	4147	5517	8017	10467	12547	11295	8299	7331
52	6987	8339	11714	12352	10165	7647	5085	3924	3530	4044	5379	7949	10483	12582	11098	7946	6987
53	6641	7973	11541	12410	10176	7557	4950	3827	3431	3946	5227	7872	10493	12616	10877	7598	6641
54	6303	7610	11316	12462	10180	7468	4817	3729	3335	3845	5082	7793	10485	12652	10641	7218	6303
55	5964	7250	11091	12493	10173	7362	4677	3626	3249	3738	4947	7704	10500	12674	10353	6872	5964
56	5629	6890	10854	12545	10170	7257	4545	3532	3161	3643	4803	7617	10526	12691	10077	6527	5629
57	5275	6507	10603	12584	10176	7141	4422	3434	3062	3549	4673	7520	10532	12692	9789	6193	5275
58	4963	6148	10297	12621	10182	7015	4294	3334	2977	3448	4543	7419	10544	12694	9483	5823	4963
59	4672	5803	9998	12646	10194	6878	4158	3232	2872	3340	4420	7294	10564	12696	9164	5495	4672
60	4400	5456	9684	12693	10189	6747	4044	3127	2762	3232	4288	7179	10605	12678	8815	5169	4400
61	4118	5087	9352	12722	10194	6586	3905	3004	2651	3124	4153	7056	10634	12670	8457	4860	4118
62	3874	4759	9006	12743	10207	6433	3771	2881	2523	3012	4024	6925	10668	12641	8103	4555	3874
63	3648	4446	8611	12770	10229	6271	3615	2751	2410	2879	3894	6767	10706	12623	7744	4276	3648
64	3431	4154	8249	12798	10256	6098	3465	2612	2282	2751	3756	6618	10751	12596	7354	3985	3431
65	3223	3882	7876	12841	10272	5898	3309	2454	2164	2616	3615	6465	10785	12577	6999	3743	3223
66	3003	3606	7510	12887	10296	5693	3138	2304	2038	2469	3456	6302	10829	12546	6639	3514	3003
67	2810	3368	7130	12932	10307	5480	2972	2156	1871	2323	3288	6132	10897	12519	6278	3289	2810
68	2626	3135	6743	12990	10313	5242	2776	1982	1718	2158	3125	5934	10967	12489	5924	3056	2626
69	2454	2905	6373	13042	10289	4952	2598	1784	1506	1988	2943	5735	11034	12465	5576	2859	2454
70	2281	2708	5990	13095	10198	4663	2409	1627	1241	1799	2778	5513	11105	12449	5217	2667	2281
71	2121	2519	5635	<b>13123</b>	10015	4352	2227	1485	1037	1634	2586	5278	11177	12437	4897	2487	2121
72	1979	2346	5314	13118	9720	3988	2032	1334	906	1483	2395	4992	11199	12415	4553	2301	1979
73	1836	2175	4953	13049	9328	3589	1813	1157	806	1348	2216	4657	11144	12380	4207	2140	1836
74	1679	2014	4590	12882	8808	3204	1618	993	721	1195	2012	4284	10957	12330	3906	1991	1679
75	1535	1867	4225	12568	8041	2866	1460	857	645	1027	1798	3897	10591	12204	3569	1847	1535
76	1377	1717	3879	12120	7191	2546	1301	735	581	892	1606	3500	10063	12014	3263	1702	1377
77	1244	1576	3515	11439	6300	2253	1152	638	518	761	1434	3120	9365	11741	2961	1562	1244
78	1126	1452	3141	10490	5343	1945	989	538	457	648	1257	2781	8496	11346	2682	1434	1126
79	997	1317	2734	9364	4412	1700	858	464	403	550	1087	2478	7471	10800	2422	1310	997
80	883	1191	2368	8121	3427	1469	734	399	353	460	946	2167	6331	10035	2139	1185	883
81	769	1066	1945	6823	2603	1187	582	326	304	393	780	1868	5038	9017	1881	1066	769
82	659	931	1590	5471	1851	909	432	269	256	314	591	1606	3887	7963	1611	940	659
83	561	825	1295	4150	1243	661	314	213	208	255	423	1320	2856	6702	1351	826	561
84	472	704	1010	3117	748	443	214	157	154	193	298	1017	1942	5583	1107	719	472
85	389	573	763	2135	453	260	128	100	104	121	203	696	1225	4329	887	609	389
86	304	435	540	1241	262	134	65	60	67	76	131	354	677	3236	679	494	304
87	225	308	341	608	132	60	31	31	37	48	69	182	387	2100	489	374	225
88	137	181	183	270	48	28	20	18	16	17	43	90	222	1174	310	246	137
89	71	62	67	94	37	26	22	17	17	15	25	37	112	543	172	135	71
90	31	30	49	72	27	25	11	16	16	17	33	36	56	123	65	41	31
91	23	21	47	66	30	21	20	18	18	15	32	36	59	66	41	32	23
92	24	25	41	56	26	20	15	13	11	13	28	33	55	58	42	32	24
93	22	17	39	50	22	19	18	17	14	14	29	29	43	59	41	33	22
94	17	18	33	48	23	17	21	16	15	16	27	21	46	55	33	27	17
95	18	17	32	39	19	22	16	11	15	13	23	29	29	50	33	27	18

96	18	18	33	34	21	17	15	14	14	13	24	30	32	44	23	22	18
97	20	16	32	32	16	21	16	12	13	15	25	30	28	30	27	26	20
98	16	15	31	33	15	25	18	16	13	12	25	26	32	33	30	17	16
99	15	16	29	29	18	15	20	14	13	9	25	27	22	35	22	21	15
100	13	19	29	35	17	19	15	18	14	12	26	29	29	30	24	16	13
101	18	12	27	30	20	22	18	17	14	14	24	25	25	31	23	20	18
102	17	15	26	28	19	13	13	14	11	11	25	28	27	27	23	19	17
103	16	17	25	23	20	21	23	16	14	11	25	23	25	28	24	21	16
104	13	13	23	28	17	22	17	16	15	11	23	28	19	25	23	19	13
105	11	10	27	25	14	22	23	14	17	11	25	29	21	23	24	20	11
106	22	18	30	30	11	19	24	17	21	12	26	25	19	23	24	20	22
107	17	11	24	28	12	23	23	22	20	13	27	23	21	20	17	19	17
108	20	14	23	33	17	24	20	21	22	12	19	28	20	20	18	21	20
109	18	17	27	26	22	24	24	16	22	13	28	28	23	22	19	21	18
110	22	16	29	25	20	30	24	20	22	15	27	27	22	22	19	20	22
111	22	16	28	29	19	24	27	22	25	17	29	24	19	20	14	19	22
112	26	16	27	31	19	28	29	26	26	15	32	32	22	21	16	23	26
113	27	18	27	30	16	20	30	25	25	12	27	32	23	24	19	15	27
114	24	19	30	30	21	25	27	25	30	20	29	36	24	18	21	19	24
115	25	20	26	33	24	30	32	23	27	16	33	29	21	20	20	21	25
116	30	19	27	33	22	33	32	31	37	21	31	36	27	22	21	22	30
117	27	20	29	34	22	30	33	29	34	23	36	34	32	24	22	21	27
118	33	19	31	32	26	34	35	27	34	23	37	32	23	25	20	16	33
119	26	20	26	33	20	33	29	31	38	24	39	34	29	22	22	23	26
120	23	21	28	35	22	37	39	36	34	26	40	41	30	22	25	20	23
121	33	22	35	33	28	34	38	38	36	30	39	41	31	29	29	23	33
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123	26	26	32	36	27	36	40	39	35	33	37	40	37	32	22	26	26
124	29	29	40	39	24	40	42	40	38	35	49	41	40	31	29	23	29
125	34	30	16	42	33	37	40	38	39	38	46	46	38	34	34	30	34
126	34	31	41	33	31	36	50	47	43	35	49	49	41	35	28	28	34
127	32	27	32	36	36	40	49	42	49	36	50	43	34	34	32	28	32
128	30	31	42	42	34	34	41	48	47	36	53	51	40	29	35	32	30
129	34	32	45	41	29	39	48	44	44	39	49	52	42	41	37	34	34
130	36	37	34	43	31	39	53	45	50	43	57	50	42	37	37	37	36
131	38	29	35	41	36	43	56	52	54	39	54	54	48	42	41	33	38
132	40	29	46	48	35	45	58	53	54	51	60	56	50	38	36	41	40
133	42	28	48	49	42	51	56	57	56	45	58	48	52	39	32	40	42
134	40	38	52	50	38	43	58	58	60	51	61	53	50	45	47	38	40
135	44	39	49	50	44	53	51	58	59	56	65	58	53	48	38	36	44
136	38	37	52	41	34	50	62	61	63	51	62	59	52	46	44	43	38
137	43	38	52	49	50	53	56	62	64	58	68	59	57	48	39	43	43
138	50	41	45	52	46	53	61	65	56	59	63	60	57	53	45	48	50
139	49	45	48	56	50	55	66	68	69	54	73	63	55	54	33	44	49
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141	50	44	55	55	53	60	69	65	63	63	76	57	63	60	51	52	50
142	48	48	46	60	55	63	65	73	75	64	73	67	54	57	54	56	48
143	54	39	53	59	52	60	68	71	70	65	76	64	58	59	58	55	54
144	51	55	64	60	52	63	68	71	73	65	73	68	56	56	57	53	51

145	55	48	64	65	56	62	73	75	74	67	69	63	66	58	57	51	55
146	55	49	55	66	57	63	73	77	75	71	78	67	62	52	55	57	55
147	50	46	66	62	58	69	73	76	72	70	76	70	67	61	60	61	50
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153	63	64	74	74	56	70	80	86	86	81	77	74	67	66	69	70	63
154	67	69	77	76	61	72	76	82	83	76	83	68	63	71	67	68	67
155	66	65	74	75	61	64	80	83	86	82	85	77	73	73	72	70	66
156	69	64	75	67	65	71	79	84	85	80	87	79	73	71	71	68	69
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158	74	69	79	75	67	74	82	87	83	82	82	81	77	75	77	68	74
159	71	70	79	75	59	72	76	89	85	80	88	78	77	76	77	72	71
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164	81	76	76	75	67	76	84	91	88	79	89	80	82	75	76	81	81
165	76	76	82	79	67	75	84	88	85	80	88	84	82	77	76	80	76
166	78	82	88	80	74	75	83	88	84	85	93	77	77	81	83	82	78
167	76	80	88	78	63	78	82	90	87	84	89	86	81	74	85	86	76
168	79	77	83	82	71	76	77	90	87	85	91	79	74	80	84	82	79
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170	81	79	87	83	74	76	82	91	81	79	92	86	81	76	82	75	81
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172	81	80	90	87	76	80	86	91	89	87	92	83	83	80	82	82	81
173	81	84	88	85	74	84	84	95	89	87	92	79	82	77	85	82	81
174	83	83	90	83	77	83	87	99	90	83	92	83	84	81	80	84	83
175	85	84	90	88	78	83	85	94	91	88	94	87	84	82	91	87	85
176	85	84	88	81	76	76	90	92	87	88	92	87	85	81	88	89	85
177	81	80	83	87	73	81	87	87	85	87	92	85	82	82	89	87	81
178	85	79	89	81	81	82	90	90	88	81	91	83	84	82	87	87	85
179	86	83	89	83	79	78	83	91	85	82	88	85	87	78	81	89	86
180	88	84	92	83	80	84	90	90	83	83	96	86	80	80	87	83	88

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Belling Test Laboratory Co., LTD  
[ISSUE DATE] 2018-8-16 17:37  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SB7-4000-300-T3  
[\_TOTALLUMINAIRELUMENS] 40358.3  
[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.