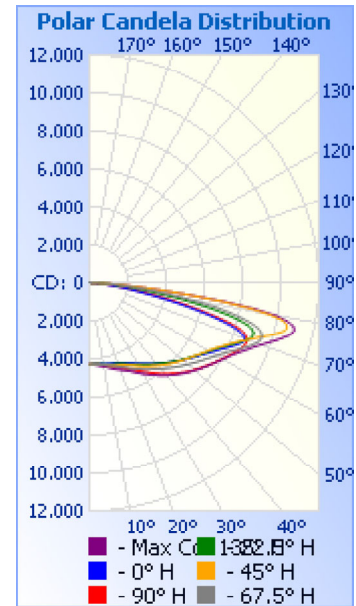


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 300W T5 - 277V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-300-T5-277V
Lamp Output: 1 lamp, rated Lumens/lamp: 38286.5
Max Candela: 11,001.8 at Horizontal: 135°, Vertical: 77°
Input Wattage: 303.5
Luminous Opening: Point
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	80.9
Max Cd, 80 to <90 Deg:	10,098.6
	Lumens % Lamp
Downward Street Side:	18,409.6 48.1%
Downward House Side:	19,727.3 51.5%
Downward Total:	38,136.9 99.6%
Upward Street Side:	72.8 0.2%
Upward House Side:	76.9 0.2%
Upward Total:	149.6 0.4%
Total Lumens:	38,286.5 100%

Flood Summary

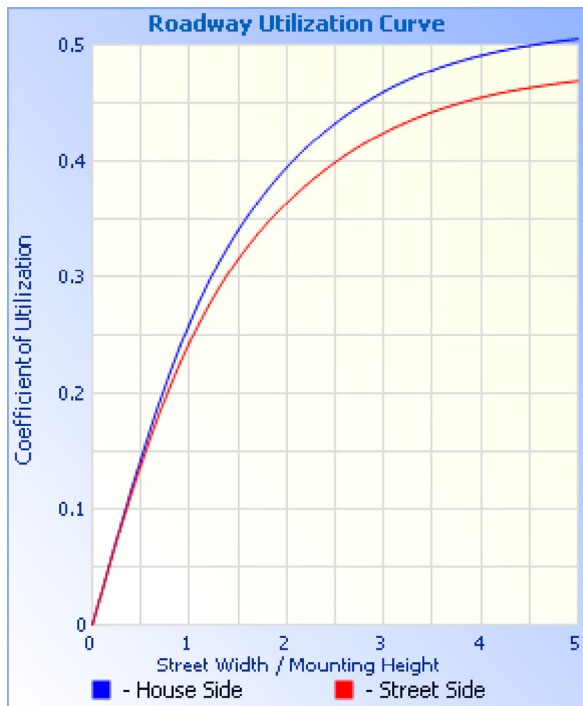
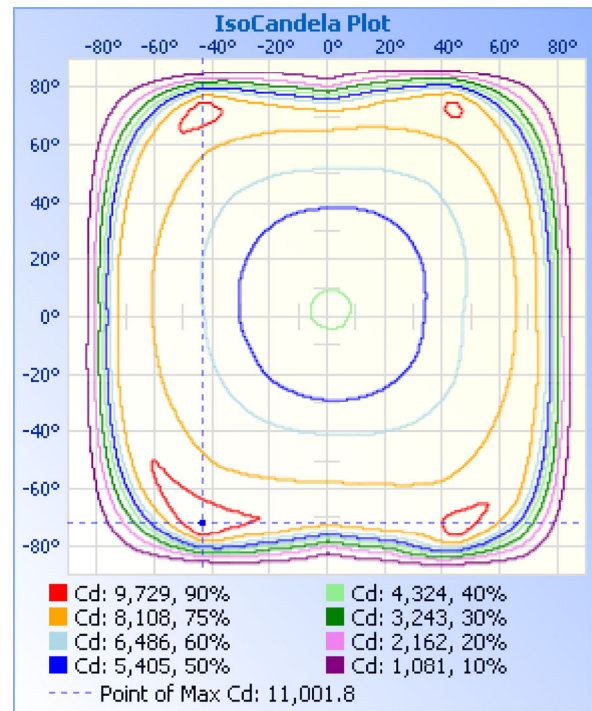
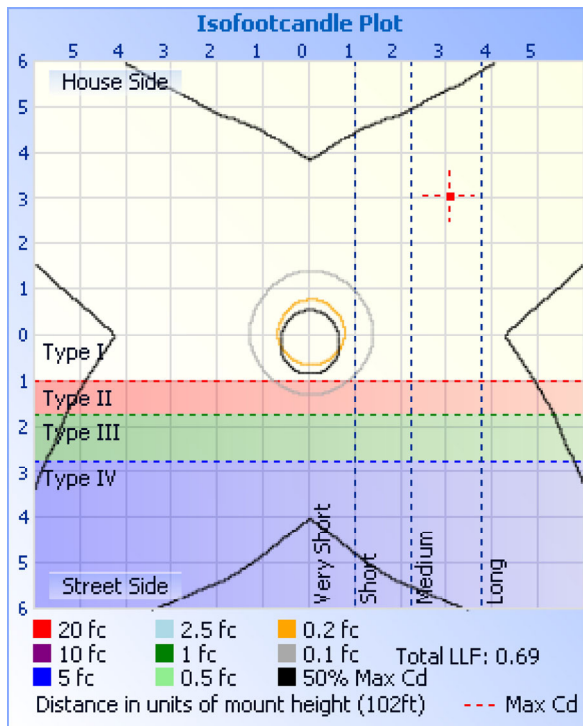
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.1%	37,925.0	154.2	170.3
Beam (50%):	81.3%	31,125.0	125.9	160.4
Total:	99.9%	38,248.3		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3,987.2	10.4%	10.4%
0-40	7,490.5	19.6%	19.6%
0-60	18,828.7	49.2%	49.2%
60-90	19,309.3	50.4%	50.4%
70-100	11,164.4	29.2%	29.2%
90-120	111.8	0.3%	0.3%
0-90	38,138.0	99.6%	99.6%
90-180	149.6	0.4%	0.4%
0-180	38,287.6	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	414.1	1.1%	90-100	49.5	0.1%
10-20	1,287.1	3.4%	100-110	36.1	0.1%
20-30	2,286.0	6.0%	110-120	26.3	0.1%
30-40	3,503.3	9.2%	120-130	15.0	0%
40-50	4,908.5	12.8%	130-140	9.7	0%
50-60	6,429.7	16.8%	140-150	6.3	0%
60-70	8,194.4	21.4%	150-160	4.0	0%
70-80	8,690.2	22.7%	160-170	2.2	0%
80-90	2,424.8	6.3%	170-180	0.6	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	15.4 fc	193.0 ft	65.4 ft
33.3ft	3.86 fc	384.8 ft	130.4 ft
50.0ft	1.71 fc	577.8 ft	195.8 ft
66.7ft	0.96 fc	770.8 ft	261.2 ft
83.3ft	0.62 fc	962.6 ft	326.2 ft
100.0ft	0.43 fc	1,155.6 ft	391.6 ft

■ Vert. Spread: 160.4°
■ Horiz. Spread: 125.9°

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	1.03	.96	.89	.83	1.00	.93	.87	.73	.89	.84	.79	.84	.80	.77	.81	.77	.74	.72
2	.90	.78	.68	.60	.87	.76	.67	.54	.72	.64	.58	.68	.62	.56	.65	.60	.55	.52
3	.79	.65	.54	.45	.76	.63	.53	.41	.60	.51	.44	.57	.49	.43	.54	.47	.42	.39

4	.71	.56	.44	.36	.68	.54	.43	.33	.51	.42	.35	.49	.40	.34	.46	.39	.33	.31
5	.64	.48	.37	.29	.62	.47	.36	.27	.45	.35	.28	.42	.34	.28	.40	.33	.27	.25
6	.59	.43	.32	.24	.56	.41	.31	.22	.39	.30	.23	.37	.29	.23	.36	.28	.23	.20
7	.54	.38	.27	.20	.52	.37	.27	.19	.35	.26	.20	.34	.26	.20	.32	.25	.19	.17
8	.50	.34	.24	.17	.48	.33	.24	.17	.32	.23	.17	.30	.23	.17	.29	.22	.17	.14
9	.46	.31	.22	.15	.45	.30	.21	.15	.29	.21	.15	.28	.20	.15	.27	.20	.15	.13
10	.43	.28	.19	.13	.42	.28	.19	.13	.27	.19	.13	.26	.18	.13	.25	.18	.13	.11

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	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281	4281
1	4274	4278	4283	4283	4286	4288	4291	4289	4290	4293	4291	4283	4284	4277	4278	4277	4274
2	4273	4274	4280	4290	4290	4293	4298	4302	4298	4295	4294	4288	4284	4275	4273	4269	4273
3	4261	4274	4286	4290	4299	4302	4312	4319	4313	4311	4299	4291	4291	4276	4276	4268	4261
4	4265	4277	4289	4296	4305	4316	4323	4335	4327	4322	4312	4295	4294	4278	4274	4273	4265
5	4268	4279	4295	4301	4316	4329	4333	4351	4347	4339	4329	4307	4306	4283	4277	4273	4268
6	4278	4290	4300	4320	4329	4346	4358	4374	4363	4351	4345	4319	4317	4296	4285	4273	4278
7	4288	4298	4314	4330	4339	4362	4387	4394	4382	4372	4365	4336	4328	4304	4291	4289	4288
8	4298	4312	4328	4345	4358	4386	4401	4420	4411	4401	4381	4350	4338	4310	4304	4293	4298
9	4309	4322	4350	4366	4380	4409	4429	4454	4443	4429	4408	4370	4359	4327	4310	4306	4309
10	4329	4340	4366	4381	4402	4436	4458	4486	4473	4461	4435	4391	4377	4341	4330	4322	4329
11	4342	4360	4384	4401	4419	4467	4490	4516	4504	4492	4457	4412	4394	4355	4350	4339	4342
12	4358	4384	4409	4429	4451	4496	4531	4556	4533	4516	4495	4447	4411	4374	4366	4360	4358
13	4367	4397	4435	4452	4474	4526	4565	4588	4566	4553	4531	4463	4428	4392	4389	4373	4367
14	4381	4417	4461	4473	4501	4558	4604	4621	4594	4580	4565	4492	4450	4407	4414	4390	4381
15	4387	4427	4491	4500	4532	4596	4656	4650	4620	4617	4597	4517	4480	4428	4433	4409	4387
16	4399	4439	4514	4526	4562	4624	4690	4687	4656	4646	4632	4545	4504	4452	4459	4418	4399
17	4410	4458	4545	4561	4599	4666	4737	4717	4689	4674	4668	4579	4536	4475	4478	4431	4410
18	4426	4471	4562	4601	4641	4709	4775	4763	4731	4708	4701	4616	4570	4507	4499	4446	4426
19	4441	4493	4585	4637	4677	4756	4811	4802	4778	4748	4731	4656	4605	4533	4522	4462	4441
20	4463	4514	4610	4686	4722	4812	4852	4851	4823	4788	4765	4699	4643	4566	4537	4483	4463
21	4497	4545	4633	4727	4772	4866	4897	4908	4879	4846	4798	4742	4683	4605	4558	4509	4497
22	4527	4574	4668	4771	4823	4923	4947	4969	4937	4902	4840	4788	4724	4651	4578	4535	4527
23	4567	4616	4693	4828	4883	4991	4999	5029	4995	4957	4882	4843	4762	4689	4606	4571	4567
24	4601	4660	4728	4886	4938	5057	5054	5105	5067	5014	4921	4898	4814	4735	4633	4604	4601
25	4650	4701	4770	4938	4993	5116	5114	5176	5135	5085	4981	4944	4864	4789	4671	4638	4650
26	4693	4749	4823	4991	5053	5192	5185	5239	5207	5150	5030	4996	4915	4837	4703	4679	4693
27	4741	4797	4862	5050	5121	5266	5262	5313	5281	5222	5101	5054	4961	4888	4743	4717	4741
28	4788	4844	4912	5106	5192	5345	5339	5392	5360	5291	5179	5112	5025	4939	4791	4764	4788
29	4841	4891	4966	5157	5269	5421	5415	5475	5443	5361	5248	5162	5088	4993	4834	4803	4841
30	4893	4942	5030	5216	5349	5493	5495	5558	5527	5437	5313	5219	5158	5043	4886	4852	4893
31	4944	4986	5094	5276	5421	5566	5574	5631	5611	5521	5380	5277	5230	5097	4937	4899	4944
32	5001	5044	5148	5332	5503	5641	5655	5712	5700	5594	5451	5337	5305	5149	4988	4946	5001
33	5059	5104	5210	5398	5585	5720	5740	5803	5789	5671	5531	5401	5382	5199	5039	5003	5059
34	5119	5163	5269	5460	5679	5799	5822	5893	5879	5755	5606	5466	5453	5264	5092	5061	5119
35	5182	5218	5334	5521	5765	5876	5902	5980	5981	5833	5681	5523	5530	5322	5152	5115	5182
36	5251	5283	5397	5591	5860	5955	5985	6070	6077	5920	5751	5590	5608	5372	5205	5177	5251
37	5317	5341	5455	5655	5949	6037	6079	6152	6162	6000	5822	5663	5686	5430	5268	5242	5317
38	5390	5403	5523	5727	6045	6120	6167	6245	6258	6088	5904	5739	5769	5490	5321	5296	5390
39	5455	5468	5593	5801	6128	6203	6251	6333	6355	6169	5987	5805	5858	5550	5379	5362	5455
40	5527	5534	5654	5875	6225	6286	6331	6430	6460	6256	6058	5886	5932	5614	5449	5434	5527
41	5600	5608	5722	5944	6313	6375	6405	6522	6562	6343	6135	5961	6019	5674	5501	5494	5600
42	5670	5674	5792	6024	6398	6464	6499	6609	6649	6431	6205	6028	6108	5740	5563	5561	5670
43	5755	5754	5854	6105	6494	6547	6574	6717	6743	6522	6289	6109	6192	5812	5618	5633	5755
44	5826	5822	5925	6176	6580	6635	6658	6807	6839	6623	6350	6181	6259	5879	5673	5698	5826
45	5899	5894	5993	6258	6676	6717	6741	6891	6932	6707	6417	6255	6340	5943	5736	5771	5899
46	5986	5967	6055	6337	6757	6801	6820	6979	7029	6796	6492	6324	6430	6018	5796	5840	5986

47	6065	6049	6131	6418	6849	6889	6900	7077	7136	6877	6570	6406	6515	6103	5863	5920	6065
48	6156	6130	6191	6502	6953	6978	6989	7173	7231	6975	6646	6488	6596	6169	5930	5993	6156
49	6231	6214	6261	6586	7036	7061	7068	7259	7336	7074	6724	6570	6664	6235	5989	6073	6231
50	6317	6294	6331	6669	7112	7146	7150	7349	7435	7158	6802	6645	6731	6311	6060	6148	6317
51	6403	6372	6400	6760	7191	7232	7232	7436	7543	7254	6868	6722	6808	6384	6116	6222	6403
52	6483	6450	6475	6843	7278	7323	7326	7536	7635	7334	6949	6807	6900	6463	6184	6305	6483
53	6576	6534	6550	6935	7368	7416	7404	7619	7727	7430	7017	6883	6981	6548	6259	6387	6576
54	6671	6626	6616	7031	7453	7503	7488	7711	7826	7529	7094	6965	7062	6624	6323	6473	6671
55	6764	6714	6692	7118	7545	7589	7570	7810	7928	7623	7172	7045	7154	6715	6397	6545	6764
56	6863	6806	6778	7219	7641	7699	7647	7906	8018	7727	7239	7136	7233	6805	6468	6642	6863
57	6957	6900	6867	7310	7732	7805	7750	7999	8117	7812	7330	7229	7313	6899	6546	6723	6957
58	7069	6996	6955	7417	7809	7907	7833	8101	8245	7912	7406	7329	7397	6994	6624	6808	7069
59	7179	7100	7053	7536	7900	8024	7939	8207	8341	8014	7488	7427	7496	7091	6701	6902	7179
60	7294	7199	7144	7652	7999	8133	8026	8307	8453	8111	7575	7533	7599	7192	6797	7003	7294
61	7429	7314	7259	7774	8107	8264	8136	8407	8565	8203	7665	7651	7689	7293	6890	7101	7429
62	7555	7419	7368	7900	8196	8392	8247	8523	8676	8318	7752	7763	7785	7404	6993	7213	7555
63	7687	7558	7490	8043	8290	8530	8359	8648	8792	8425	7850	7886	7881	7529	7103	7326	7687
64	7839	7696	7636	8202	8390	8662	8490	8759	8893	8532	7966	8004	7970	7664	7216	7459	7839
65	8009	7850	7783	8378	8496	8810	8635	8886	9016	8649	8078	8150	8083	7798	7345	7604	8009
66	8166	8012	7932	8556	8603	8977	8797	9011	9102	8774	8203	8307	8187	7951	7489	7761	8166
67	8339	8191	8108	8731	8679	9138	8957	9168	9206	8895	8338	8458	8281	8114	7642	7908	8339
68	8494	8368	8300	8921	8750	9300	9125	9295	9262	9024	8497	8621	8381	8275	7805	8071	8494
69	8615	8554	8500	9122	8782	9468	9310	9434	9263	9149	8657	8799	8432	8464	7989	8267	8615
70	8632	8755	8745	9274	8762	9620	9533	9572	9145	9254	8827	8997	8436	8629	8209	8458	8632
71	8513	8903	9006	9401	8672	9751	9757	9681	8823	9346	9016	9165	8362	8770	8445	8679	8513
72	8240	8986	9280	9456	8497	9790	9993	9721	8352	9357	9218	9323	8235	8842	8699	8840	8240
73	7817	8979	9575	9419	8192	9754	10253	9682	7699	9246	9460	9426	8011	8861	8974	8958	7817
74	7161	8837	9908	9323	7628	9634	10494	9478	6908	8992	9686	9493	7611	8836	9257	8982	7161
75	6415	8558	10221	9106	6892	9397	10728	9091	6003	8552	9942	9500	7021	8733	9578	8900	6415
76	5513	8066	10490	8697	6065	9035	10922	8535	4987	7937	10162	9436	6197	8504	9835	8664	5513
77	4677	7395	10595	8166	5203	8517	11002	7790	4057	7068	10325	9271	5337	8116	10018	8256	4677
78	3822	6580	10536	7502	4364	7847	10899	6832	3243	6110	10379	8949	4526	7566	10085	7667	3822
79	3103	5667	10280	6779	3536	6977	10523	5758	2609	5159	10330	8443	3765	6803	10055	6910	3103
80	2438	4764	9589	5808	2853	6065	9914	4813	1993	4200	10099	7835	3064	6024	9803	6034	2438
81	1933	3832	8493	4884	2271	5021	8771	3881	1521	3361	9449	7048	2359	5139	9054	4992	1933
82	1455	3069	6957	3922	1756	4186	7208	3090	1183	2667	8518	6090	1839	4181	7746	4125	1455
83	1105	2438	5219	3097	1299	3295	5319	2410	866	2092	7047	4987	1344	3357	6273	3316	1105
84	806	1942	3817	2358	950	2558	3748	1765	630	1561	5239	3956	1008	2641	4639	2595	806
85	582	1453	2482	1673	681	1963	2480	1280	423	1092	3692	3049	693	1999	3391	1991	582
86	375	1052	1502	1123	465	1298	1448	840	269	735	2205	2190	467	1448	2129	1457	375
87	230	620	681	586	278	794	654	441	167	444	1189	1358	271	932	1178	914	230
88	108	220	178	146	141	354	217	240	104	235	537	773	132	475	484	444	108
89	57	57	69	61	63	78	76	62	42	97	200	344	57	145	124	81	57
90	44	53	62	51	50	66	59	65	42	56	81	81	34	62	66	57	44
91	44	49	49	54	40	59	62	51	44	57	62	65	33	49	51	59	44
92	37	49	59	49	36	55	57	60	40	51	66	37	44	50	51	54	37
93	35	53	55	43	32	43	59	50	41	49	62	43	36	42	49	52	35
94	42	46	47	40	36	51	57	52	31	39	59	64	33	48	49	44	42
95	35	34	44	41	42	47	55	53	44	44	61	51	31	45	42	37	35

96	34	38	49	34	38	38	45	33	40	48	53	44	34	42	35	43	34
97	32	48	45	23	37	46	52	60	34	43	59	51	30	41	45	46	32
98	38	37	44	36	37	42	53	58	38	49	56	38	31	43	45	39	38
99	35	36	40	32	37	42	35	53	33	40	54	50	28	42	40	37	35
100	36	40	41	31	39	36	44	46	37	28	55	49	26	41	35	45	36
101	30	40	45	33	32	36	41	53	38	40	54	39	31	39	31	42	30
102	28	37	41	34	24	39	37	41	33	43	36	45	23	39	25	37	28
103	32	34	39	33	36	41	42	57	32	38	43	48	28	26	32	35	32
104	29	31	36	31	40	33	37	46	29	41	54	44	30	34	26	28	29
105	24	35	39	26	28	34	19	46	28	33	50	45	24	32	26	40	24
106	34	26	30	32	26	40	34	43	36	28	45	44	28	35	35	36	34
107	34	26	33	27	21	34	36	27	40	31	40	42	18	26	32	34	34
108	32	28	36	17	22	30	37	43	31	32	34	37	20	29	31	36	32
109	31	28	28	21	20	29	29	37	32	30	37	30	10	39	31	32	31
110	36	29	25	23	25	28	27	40	31	31	35	33	19	31	28	35	36
111	49	27	26	22	19	26	31	39	38	29	33	39	24	24	22	26	49
112	50	20	20	15	23	24	29	32	53	22	34	32	25	23	28	22	50
113	45	25	22	20	20	27	20	34	65	20	35	28	18	22	17	28	45
114	53	27	29	8	18	22	25	30	61	21	31	30	21	28	20	25	53
115	45	23	23	21	26	23	22	34	70	27	30	31	15	26	20	26	45
116	42	19	18	16	15	18	32	26	62	24	29	24	13	17	26	30	42
117	40	24	24	16	20	19	19	27	61	24	27	34	15	24	23	21	40
118	42	19	22	13	15	14	16	27	55	21	23	20	6	22	16	35	42
119	26	23	16	12	14	19	16	22	38	21	19	26	21	24	23	25	26
120	23	16	19	14	9	19	15	27	39	22	21	19	13	25	20	25	23
121	29	20	12	14	14	17	18	26	29	19	18	23	12	22	19	21	29
122	29	24	19	16	10	9	12	20	32	19	24	14	7	20	14	22	29
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124	30	18	14	6	9	16	13	20	30	12	21	18	11	15	19	21	30
125	23	18	15	11	1	15	20	25	24	17	16	18	7	22	14	22	23
126	31	25	20	12	12	9	12	22	26	15	13	15	13	14	19	17	31
127	20	18	14	5	0	8	6	24	16	14	12	15	0	19	17	19	20
128	26	19	13	10	3	11	7	15	29	17	8	12	14	11	18	20	26
129	21	22	12	14	6	6	7	25	20	13	16	14	7	18	13	24	21
130	24	24	17	10	4	13	4	21	16	12	14	18	5	11	12	17	24
131	25	22	17	1	2	5	6	19	19	17	20	15	3	21	17	25	25
132	21	18	16	18	0	9	7	17	19	14	10	12	14	14	17	20	21
133	12	20	10	9	4	12	12	20	13	13	16	10	5	14	17	18	12
134	19	15	17	2	0	0	7	20	19	11	12	10	4	17	15	20	19
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136	23	19	10	11	0	7	8	20	22	11	4	15	7	12	10	19	23
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138	15	16	13	1	0	1	8	17	18	5	14	12	10	13	13	22	15
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142	18	16	0	4	8	0	4	18	18	12	12	8	14	12	9	19	18
143	20	19	10	8	0	3	12	19	16	4	4	7	9	11	7	12	20
144	10	17	10	9	1	0	6	17	14	6	14	4	4	13	10	22	10

145	21	17	15	10	0	0	10	13	13	10	7	14	14	14	14	14	21
146	25	12	6	7	0	1	5	13	19	7	6	11	4	11	11	14	25
147	19	7	7	10	0	4	4	23	14	10	6	11	11	9	12	11	19
148	16	12	7	7	0	0	7	16	10	4	7	6	5	12	2	17	16
149	19	19	16	5	2	1	7	12	15	6	7	8	11	13	10	22	19
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154	7	13	16	5	0	6	1	15	9	12	9	10	6	4	13	14	7
155	8	10	11	2	0	2	5	9	10	17	3	6	3	9	11	22	8
156	13	12	5	9	0	10	4	7	4	5	13	7	9	13	6	11	13
157	9	12	7	2	0	4	4	11	6	6	12	7	0	9	11	17	9
158	15	14	11	1	0	5	7	7	5	0	4	12	9	4	12	22	15
159	4	11	12	1	0	0	14	17	5	1	10	10	9	6	9	19	4
160	12	11	10	13	0	1	2	14	4	4	8	5	9	8	10	18	12
161	7	10	4	13	0	8	6	12	1	8	12	10	11	7	8	14	7
162	10	14	11	6	0	3	4	19	3	5	14	4	4	4	12	11	10
163	10	13	13	8	0	10	1	17	6	0	12	9	6	3	13	19	10
164	15	9	7	9	2	6	9	14	6	5	8	3	0	10	11	12	15
165	10	13	11	4	2	2	0	14	8	0	14	14	11	12	7	14	10
166	10	12	16	4	0	2	3	10	2	6	13	0	8	9	8	16	10
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168	8	11	9	15	0	3	1	16	10	0	7	4	4	7	6	13	8
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170	11	8	8	8	0	5	4	15	0	5	10	9	7	9	4	11	11
171	9	10	0	10	0	7	13	15	8	4	16	0	4	8	7	12	9
172	0	9	14	5	0	9	6	10	3	4	9	11	1	6	5	20	0
173	2	6	11	6	0	4	9	11	9	5	7	9	1	8	8	12	2
174	8	10	6	8	0	8	0	15	6	5	6	10	2	4	0	8	8
175	0	8	7	10	0	5	1	7	3	1	4	8	8	5	8	8	0
176	8	11	1	2	0	0	1	7	5	4	4	8	1	6	5	16	8
177	11	1	7	11	0	1	1	11	3	8	12	0	1	3	3	13	11
178	3	7	11	10	0	7	4	14	2	4	6	3	0	4	8	9	3
179	4	10	6	9	0	7	1	8	2	3	8	11	5	4	4	9	4
180	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB]
[ISSUEDATE] 2018-2-7 11:47
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-300-T5-277V
[_TOTALLUMINAIRELUMENS] 38287.6
[VOLTAGE] 276.4 V
[CURRENT] 1.098 A
[POWERFACTOR] 0.948
[TESTINST] GPM-3000
[TESTDIST] 17.398 M
[TESTTEMPERATURE] 13.0 'C
[TESTHUMIDITY]
[TESTOPERATOR]
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.