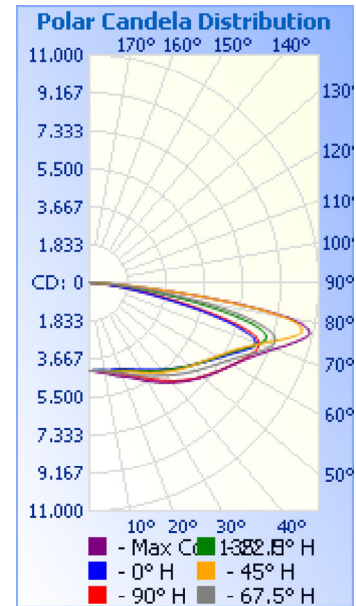


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 300W T5 - 200V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-300-T5-200V
Lamp Output: 1 lamp, rated Lumens/lamp: 37787.2
Max Candela: 10,844.9 at Horizontal: 135°, Vertical: 77°
Input Wattage: 299.97
Luminous Opening: Point
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	71.2
Max Cd, 80 to <90 Deg:	9,975.9
	Lumens % Lamp
Downward Street Side:	18,173.1 48.1%
Downward House Side:	19,478.5 51.5%
Downward Total:	37,651.6 99.6%
Upward Street Side:	66.6 0.2%
Upward House Side:	69.0 0.2%
Upward Total:	135.6 0.4%
Total Lumens:	37,787.2 100%

Flood Summary

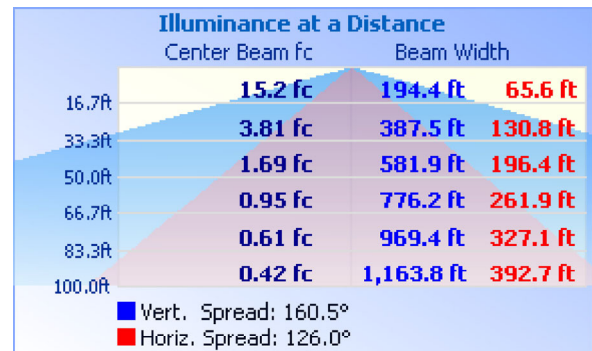
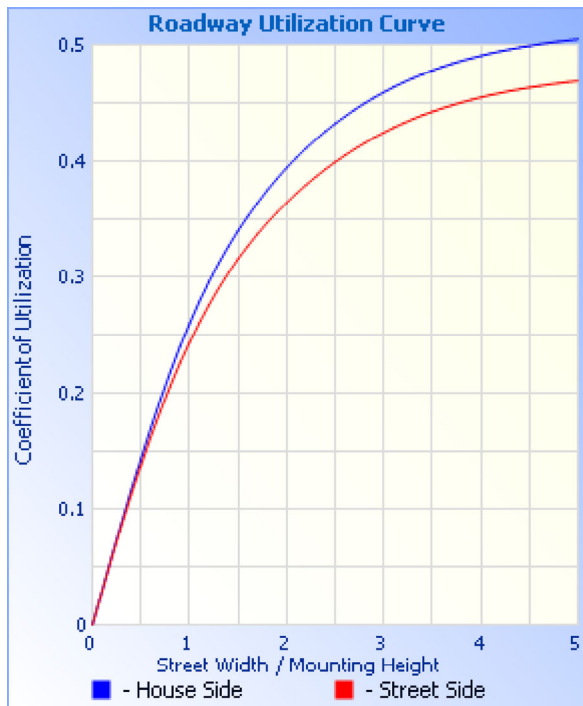
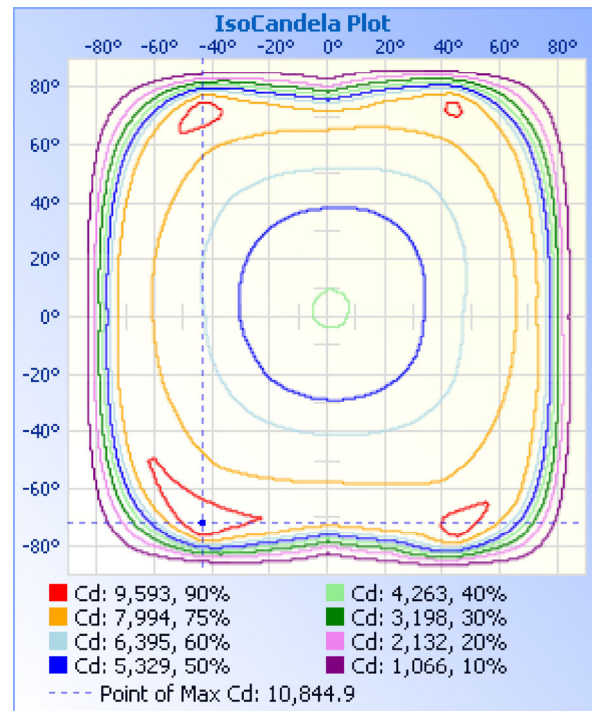
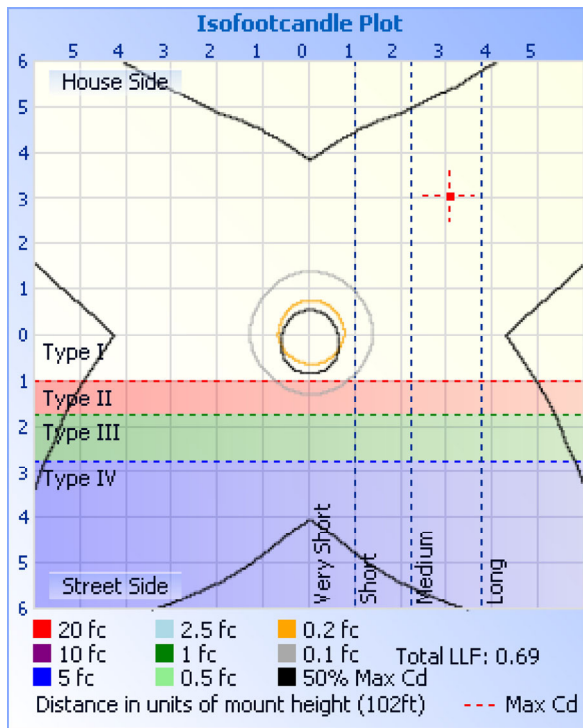
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.1%	37,441.1	154.2	170.3
Beam (50%):	81.4%	30,773.4	126	160.5
Total:	99.9%	37,749.0		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	3,936.5	10.4%	10.4%
0-40	7,395.8	19.6%	19.6%
0-60	18,587.6	49.2%	49.2%
60-90	19,065.1	50.5%	50.5%
70-100	11,025.0	29.2%	29.2%
90-120	102.9	0.3%	0.3%
0-90	37,652.7	99.6%	99.6%
90-180	135.6	0.4%	0.4%
0-180	37,788.3	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	408.8	1.1%	90-100	46.5	0.1%
10-20	1,270.5	3.4%	100-110	33.4	0.1%
20-30	2,257.2	6.0%	110-120	23.1	0.1%
30-40	3,459.3	9.2%	120-130	13.1	0%
40-50	4,845.4	12.8%	130-140	8.0	0%
50-60	6,346.4	16.8%	140-150	5.4	0%
60-70	8,086.6	21.4%	150-160	3.6	0%
70-80	8,582.4	22.7%	160-170	1.9	0%
80-90	2,396.1	6.3%	170-180	0.6	0%



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	.42	.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	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228	4228
1	4224	4234	4225	4228	4231	4234	4235	4240	4234	4241	4235	4226	4225	4221	4219	4213	4224
2	4216	4227	4223	4231	4236	4243	4242	4244	4243	4254	4239	4230	4230	4226	4221	4209	4216
3	4217	4221	4233	4238	4238	4248	4255	4256	4258	4260	4247	4240	4235	4222	4215	4210	4217
4	4209	4231	4237	4244	4246	4264	4267	4274	4275	4274	4259	4242	4240	4228	4219	4212	4209
5	4216	4240	4244	4255	4262	4275	4282	4288	4286	4294	4276	4255	4248	4228	4224	4211	4216
6	4217	4234	4252	4267	4273	4292	4300	4310	4306	4308	4284	4265	4255	4236	4228	4222	4217
7	4233	4251	4260	4271	4283	4312	4325	4331	4323	4328	4305	4277	4266	4252	4237	4229	4233
8	4243	4261	4271	4290	4301	4334	4348	4354	4352	4344	4331	4293	4285	4267	4249	4240	4243
9	4248	4271	4292	4308	4322	4357	4374	4382	4378	4379	4350	4316	4302	4271	4259	4247	4248
10	4260	4294	4310	4327	4341	4383	4402	4419	4410	4408	4378	4336	4317	4286	4276	4267	4260
11	4285	4311	4332	4344	4367	4408	4435	4458	4445	4449	4403	4358	4333	4305	4295	4283	4285
12	4298	4330	4360	4372	4392	4438	4466	4494	4479	4467	4431	4380	4355	4320	4311	4293	4298
13	4311	4350	4380	4388	4415	4469	4506	4523	4505	4508	4466	4406	4377	4339	4332	4310	4311
14	4318	4366	4409	4419	4441	4499	4550	4554	4533	4531	4502	4421	4397	4356	4357	4329	4318
15	4329	4384	4434	4446	4465	4530	4592	4588	4565	4566	4545	4451	4416	4380	4372	4344	4329
16	4334	4389	4457	4476	4499	4573	4639	4623	4591	4598	4572	4483	4445	4398	4399	4354	4334
17	4352	4402	4479	4496	4542	4607	4677	4654	4633	4630	4604	4519	4477	4422	4425	4365	4352
18	4363	4427	4507	4532	4575	4645	4710	4688	4672	4661	4640	4550	4507	4456	4444	4384	4363
19	4379	4442	4521	4579	4619	4696	4752	4733	4712	4690	4678	4585	4545	4483	4461	4401	4379
20	4403	4465	4552	4620	4662	4754	4790	4780	4762	4736	4706	4631	4577	4514	4474	4423	4403
21	4433	4486	4572	4666	4712	4807	4836	4836	4817	4791	4749	4680	4617	4549	4501	4439	4433
22	4471	4528	4602	4717	4760	4862	4883	4899	4868	4845	4777	4729	4660	4588	4520	4469	4471
23	4502	4571	4632	4767	4811	4925	4931	4969	4928	4908	4815	4783	4701	4636	4550	4504	4502
24	4544	4608	4670	4824	4871	4987	4988	5028	4991	4967	4859	4834	4751	4683	4575	4538	4544
25	4585	4648	4711	4875	4930	5059	5054	5105	5058	5037	4920	4886	4798	4726	4608	4574	4585
26	4632	4690	4753	4930	4989	5129	5121	5179	5140	5098	4979	4935	4852	4779	4639	4616	4632
27	4677	4740	4799	4991	5056	5200	5192	5244	5217	5164	5046	4983	4911	4827	4680	4656	4677
28	4728	4788	4858	5040	5126	5273	5266	5322	5297	5234	5112	5038	4967	4883	4717	4698	4728
29	4777	4833	4906	5105	5204	5357	5349	5399	5377	5311	5181	5090	5021	4927	4767	4742	4777
30	4824	4889	4970	5150	5283	5426	5428	5471	5456	5382	5249	5161	5090	4990	4825	4782	4824
31	4876	4940	5025	5213	5358	5499	5505	5544	5532	5464	5317	5211	5162	5036	4872	4833	4876
32	4929	4997	5085	5270	5433	5569	5584	5643	5619	5540	5388	5272	5231	5092	4926	4877	4929
33	4993	5051	5147	5334	5512	5642	5657	5725	5719	5615	5464	5330	5305	5142	4972	4925	4993
34	5046	5102	5210	5391	5610	5720	5746	5805	5809	5700	5534	5397	5389	5202	5032	4988	5046
35	5116	5162	5268	5468	5697	5802	5824	5893	5897	5773	5604	5452	5460	5261	5086	5044	5116
36	5174	5215	5334	5519	5787	5879	5915	5979	5982	5863	5674	5527	5539	5312	5138	5108	5174
37	5245	5291	5384	5586	5873	5959	5997	6061	6068	5948	5754	5584	5624	5373	5195	5172	5245
38	5312	5352	5454	5659	5958	6041	6076	6160	6173	6026	5831	5667	5695	5428	5246	5229	5312
39	5382	5416	5533	5733	6048	6123	6163	6251	6270	6107	5905	5737	5781	5483	5312	5284	5382
40	5446	5485	5585	5805	6148	6217	6238	6335	6364	6191	5994	5807	5855	5547	5364	5348	5446
41	5522	5542	5650	5875	6235	6303	6314	6422	6454	6282	6059	5884	5944	5608	5430	5425	5522
42	5598	5613	5720	5954	6323	6380	6398	6525	6552	6373	6137	5949	6027	5670	5484	5485	5598
43	5674	5684	5795	6028	6418	6468	6482	6620	6653	6460	6205	6019	6111	5743	5541	5551	5674
44	5741	5766	5860	6101	6501	6551	6570	6702	6735	6547	6279	6100	6178	5802	5599	5620	5741
45	5806	5833	5919	6185	6585	6636	6653	6784	6825	6627	6345	6173	6263	5878	5665	5693	5806
46	5898	5903	5989	6263	6675	6723	6729	6882	6931	6705	6420	6231	6346	5952	5721	5763	5898

47	5983	5975	6049	6352	6767	6807	6802	6983	7027	6793	6487	6323	6427	6027	5784	5833	5983
48	6059	6057	6120	6422	6867	6897	6887	7058	7135	6882	6560	6408	6507	6097	5842	5905	6059
49	6139	6143	6189	6510	6949	6981	6972	7155	7227	6982	6651	6496	6575	6160	5910	5992	6139
50	6223	6226	6251	6595	7022	7062	7053	7239	7332	7084	6711	6572	6648	6237	5975	6061	6223
51	6298	6303	6323	6686	7099	7146	7135	7331	7431	7175	6788	6648	6726	6309	6044	6140	6298
52	6381	6374	6401	6760	7191	7230	7223	7435	7533	7259	6868	6713	6798	6384	6107	6222	6381
53	6474	6453	6478	6844	7270	7314	7296	7530	7615	7357	6935	6795	6887	6461	6172	6307	6474
54	6574	6542	6537	6938	7354	7412	7384	7597	7707	7447	7016	6884	6970	6548	6240	6380	6574
55	6669	6642	6611	7044	7445	7498	7466	7700	7799	7537	7085	6961	7055	6627	6304	6457	6669
56	6766	6727	6697	7126	7537	7582	7552	7792	7903	7638	7146	7044	7134	6713	6378	6540	6766
57	6849	6832	6786	7231	7618	7693	7636	7891	8002	7727	7234	7136	7214	6809	6453	6625	6849
58	6974	6921	6873	7330	7709	7805	7719	7980	8117	7826	7314	7239	7299	6907	6532	6720	6974
59	7096	7014	6980	7451	7802	7920	7819	8078	8220	7923	7403	7338	7393	7002	6618	6806	7096
60	7193	7119	7074	7559	7899	8026	7912	8178	8325	8023	7485	7442	7490	7099	6694	6900	7193
61	7329	7231	7180	7676	8004	8145	8016	8288	8446	8116	7574	7547	7580	7210	6792	6994	7329
62	7439	7336	7304	7810	8087	8288	8129	8399	8538	8214	7655	7680	7676	7319	6886	7105	7439
63	7572	7474	7399	7953	8186	8413	8248	8516	8659	8330	7765	7799	7776	7443	6997	7216	7572
64	7721	7621	7533	8105	8285	8550	8368	8630	8766	8440	7864	7926	7866	7561	7122	7353	7721
65	7879	7753	7662	8257	8389	8689	8512	8761	8879	8567	7980	8063	7970	7708	7246	7485	7879
66	8056	7910	7833	8445	8475	8847	8659	8899	8955	8690	8099	8189	8071	7856	7373	7636	8056
67	8200	8100	8007	8640	8565	9020	8824	9023	9042	8801	8226	8342	8175	7999	7535	7796	8200
68	8380	8287	8177	8825	8629	9177	9005	9155	9124	8942	8390	8541	8259	8169	7695	7964	8380
69	8467	8460	8424	9016	8668	9337	9186	9310	9136	9058	8542	8711	8317	8342	7882	8149	8467
70	8494	8640	8649	9164	8646	9485	9388	9438	8997	9165	8723	8887	8322	8524	8097	8342	8494
71	8364	8768	8897	9295	8551	9624	9607	9546	8731	9247	8910	9053	8251	8654	8328	8560	8364
72	8089	8882	9178	9336	8379	9665	9860	9586	8266	9275	9112	9208	8141	8736	8578	8714	8089
73	7680	8870	9471	9306	8089	9638	10084	9565	7625	9174	9328	9293	7924	8749	8840	8815	7680
74	7106	8739	9801	9218	7530	9509	10315	9362	6776	8909	9568	9356	7561	8723	9114	8859	7106
75	6318	8469	10079	8979	6795	9279	10549	8983	5877	8458	9811	9375	6959	8614	9398	8758	6318
76	5519	8010	10330	8600	5978	8925	10759	8454	4976	7859	10032	9318	6169	8412	9680	8558	5519
77	4562	7335	10454	8086	5126	8416	10845	7735	4059	7000	10202	9155	5351	8022	9865	8169	4562
78	3751	6519	10394	7432	4303	7759	10741	6795	3244	6056	10262	8819	4510	7471	9938	7538	3751
79	3015	5616	10144	6624	3476	6896	10413	5741	2551	5103	10215	8358	3727	6828	9896	6795	3015
80	2417	4721	9510	5755	2807	6003	9732	4804	1992	4234	9976	7682	3026	5986	9651	5938	2417
81	1916	3806	8447	4732	2213	5064	8582	3782	1527	3331	9378	6911	2356	5110	8894	5006	1916
82	1467	3056	6892	3803	1713	4143	7067	3087	1186	2643	8348	5955	1830	4146	7595	4051	1467
83	1092	2440	5282	3002	1296	3328	5359	2334	847	2070	7015	4970	1344	3343	6150	3246	1092
84	815	1875	3732	2275	914	2593	3780	1755	614	1548	5245	3953	972	2624	4637	2542	815
85	565	1436	2449	1679	660	1931	2400	1276	429	1115	3552	2951	670	2031	3247	1945	565
86	387	1002	1465	1072	447	1323	1401	840	286	727	2233	2114	443	1438	2142	1411	387
87	228	623	703	599	273	799	677	436	161	438	1219	1377	265	925	1114	880	228
88	118	192	187	167	135	362	229	221	102	230	538	791	108	507	459	422	118
89	57	59	67	53	53	70	62	63	58	122	180	312	50	141	108	68	57
90	55	44	53	56	31	44	66	46	35	52	68	71	36	55	70	55	55
91	47	45	57	59	30	57	62	46	47	56	73	66	22	40	47	47	47
92	48	38	41	48	30	51	65	41	48	51	63	62	28	43	57	44	48
93	50	40	44	47	23	49	52	43	51	44	51	57	25	45	52	45	50
94	48	42	41	36	22	45	54	37	41	46	55	48	20	52	47	37	48
95	42	36	44	44	20	19	57	51	47	36	61	59	22	45	36	34	42

96	40	37	46	42	20	39	48	50	44	38	57	54	20	45	43	31	40
97	36	32	34	38	20	36	45	48	45	46	50	51	16	35	48	26	36
98	39	45	43	35	19	38	51	44	45	42	50	47	23	43	51	31	39
99	39	37	35	42	16	39	35	46	39	44	56	49	11	34	44	30	39
100	27	36	32	38	23	34	42	41	37	46	46	49	20	39	44	28	27
101	38	31	41	33	16	31	46	50	38	38	43	43	16	35	39	22	38
102	42	36	31	33	19	39	43	44	38	41	46	42	19	32	29	25	42
103	38	36	30	36	21	32	42	39	41	40	42	40	15	33	41	23	38
104	41	31	29	27	20	36	40	37	37	46	41	42	19	33	31	33	41
105	42	31	34	32	23	30	38	29	33	30	39	37	9	32	30	20	42
106	42	29	29	27	10	30	33	27	35	36	33	34	9	33	35	29	42
107	40	38	26	31	5	18	42	22	39	31	38	39	12	26	37	30	40
108	33	30	26	26	7	26	31	32	33	28	36	40	10	27	35	29	33
109	44	27	30	24	10	24	32	26	34	33	31	33	7	33	31	22	44
110	50	23	18	27	7	27	33	25	42	27	32	37	5	27	31	25	50
111	55	26	19	26	5	25	33	33	42	30	26	36	9	23	30	25	55
112	55	26	14	28	0	24	33	25	59	25	25	30	7	28	30	15	55
113	50	24	15	28	0	22	25	22	66	25	25	24	3	23	22	17	50
114	66	18	26	18	5	15	34	20	75	28	28	25	5	25	24	22	66
115	50	18	20	21	0	17	24	20	73	24	22	26	0	19	25	17	50
116	36	15	14	23	3	10	23	22	53	27	23	23	4	18	24	18	36
117	36	23	14	15	2	13	20	14	65	22	18	25	2	20	22	14	36
118	43	23	12	20	0	7	22	9	48	26	14	23	0	24	26	12	43
119	40	20	17	20	0	11	21	11	47	27	20	25	4	16	24	9	40
120	38	20	13	16	0	7	16	15	35	23	14	16	0	8	27	17	38
121	27	22	13	15	0	7	20	8	39	18	17	24	0	24	23	13	27
122	36	21	16	18	0	14	21	15	27	13	20	16	0	20	22	16	36
123	37	22	9	16	0	6	11	17	35	17	18	16	0	11	24	13	37
124	32	17	16	17	0	1	17	19	27	23	14	13	0	18	18	8	32
125	30	11	14	14	0	8	14	18	26	17	9	15	0	10	21	8	30
126	35	15	8	11	0	7	15	16	29	17	12	18	0	18	22	10	35
127	28	12	7	8	0	4	9	18	25	14	18	11	0	16	15	3	28
128	33	19	9	17	0	5	19	12	32	13	11	9	0	15	15	10	33
129	33	20	8	12	0	0	9	11	22	19	7	11	0	18	19	14	33
130	35	17	14	16	0	0	20	8	16	9	10	12	0	10	20	14	35
131	26	16	11	10	0	0	10	11	22	11	6	9	0	10	17	11	26
132	30	15	13	16	0	6	9	13	24	12	14	16	0	12	14	1	30
133	30	18	9	13	0	0	4	11	18	9	10	19	0	8	21	10	30
134	26	17	7	15	0	0	10	6	20	15	6	9	0	18	15	10	26
135	32	13	7	11	0	0	13	7	22	7	10	13	0	8	18	6	32
136	24	13	9	5	0	9	11	12	16	7	5	9	0	12	21	5	24
137	23	11	8	7	0	1	14	8	15	8	8	9	0	13	13	5	23
138	26	17	7	5	0	3	4	3	21	13	4	10	0	8	18	6	26
139	27	21	9	3	0	0	12	4	18	8	12	11	0	8	14	11	27
140	23	15	8	9	0	0	0	11	16	10	4	4	0	11	13	10	23
141	16	13	5	9	0	0	6	7	18	13	8	3	0	9	15	5	16
142	21	14	12	8	0	4	12	8	17	10	11	13	0	4	18	8	21
143	17	11	3	14	0	0	11	7	17	7	6	1	0	14	22	6	17
144	23	13	7	7	0	2	10	4	19	11	9	4	0	16	17	12	23

145	19	16	8	9	0	3	9	9	16	13	2	6	0	10	16	10	19
146	22	7	8	9	0	2	8	10	22	9	1	4	0	9	11	4	22
147	17	12	2	10	0	0	7	7	16	9	5	11	0	4	8	6	17
148	21	15	8	12	0	0	12	12	18	1	4	3	0	13	13	12	21
149	18	10	3	9	0	11	8	6	20	12	0	11	0	8	17	2	18
150	26	18	7	1	0	0	5	5	12	12	9	14	0	11	12	3	26
151	15	7	6	14	0	1	10	9	7	18	7	7	0	9	11	9	15
152	20	9	7	12	0	1	8	6	15	15	0	11	0	9	6	4	20
153	18	10	7	13	0	0	14	9	19	14	0	10	0	2	12	5	18
154	17	14	10	13	0	4	11	8	19	16	4	6	0	11	8	0	17
155	16	16	9	11	0	2	5	4	12	10	5	6	0	4	15	6	16
156	14	7	11	8	0	1	5	1	15	11	4	4	0	8	8	6	14
157	17	9	8	12	0	0	6	5	16	12	11	7	0	9	13	5	17
158	18	15	7	15	0	0	3	8	15	12	7	6	0	8	13	10	18
159	17	15	4	12	0	0	10	7	13	9	2	1	0	9	13	8	17
160	18	8	14	1	0	1	10	9	0	11	7	6	0	5	11	4	18
161	13	12	13	9	0	2	7	8	11	12	0	3	0	1	12	5	13
162	18	12	0	9	0	0	2	6	16	5	7	11	0	3	11	1	18
163	11	12	7	7	0	3	6	6	14	7	9	12	0	10	6	6	11
164	18	9	6	10	0	8	8	4	11	6	7	8	0	3	14	8	18
165	12	12	7	7	0	0	5	6	12	5	2	8	0	10	6	4	12
166	13	10	6	4	0	3	12	6	12	9	0	0	0	13	10	4	13
167	11	12	8	12	0	0	10	7	4	9	2	9	0	14	17	8	11
168	14	9	10	7	0	0	11	0	13	12	0	0	0	10	6	14	14
169	7	13	8	7	0	4	9	9	18	7	9	8	0	10	9	6	7
170	13	4	4	11	0	1	10	8	11	10	0	6	0	8	6	6	13
171	14	6	11	15	0	4	3	9	17	10	4	0	0	8	12	5	14
172	12	3	7	6	0	2	10	2	10	9	3	10	0	7	4	2	12
173	11	1	7	10	0	0	6	6	11	5	7	6	0	13	13	2	11
174	13	6	7	6	0	0	9	6	11	11	8	6	0	12	7	1	13
175	10	6	7	9	0	2	10	4	8	8	6	10	0	9	7	7	10
176	15	12	6	5	0	0	4	3	12	6	1	9	0	7	9	2	15
177	12	9	0	3	0	1	6	0	13	5	0	4	0	10	8	1	12
178	13	8	9	9	0	0	4	4	2	2	4	6	0	8	3	5	13
179	13	2	9	9	0	0	4	0	4	0	7	4	0	14	8	0	13
180	8	0	0	5	0	0	8	10	11	4	1	10	0	9	6	0	8

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB]
[ISSUEDATE] 2018-2-7 13:35
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-300-T5-200V
[_TOTALLUMINAIRELUMENS] 37788.3
[VOLTAGE] 199.5 V
[CURRENT] 1.471 A
[POWERFACTOR] 0.988
[TESTINST] GPM-3000
[TESTDIST] 17.398 M
[TESTTEMPERATURE] 13.4 '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

Photometrics Pro 1.3.29 copyright 2003-2019 by jSolutions, Inc.
Reported data calculated from manufacturer's data file, based on IES recommended methods.