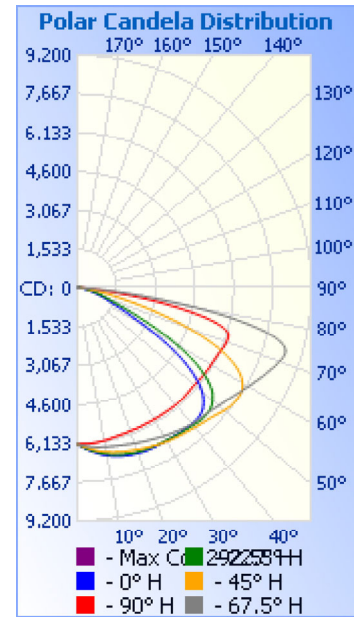


Photometrics Pro

Luminaire Photometric Report

Filename: Shoebox SB7 200W T3 - 277V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SB7-4000-200-T3-277V
Lamp Output: 1 lamp, rated Lumens/lamp: 25322.4
Max Candela: 9,132.2 at Horizontal: 292.5°, Vertical: 72°
Input Wattage: 202.25
Luminous Opening: Point
Photometry : Type C
Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	39.8	
Max Cd, 80 to <90 Deg:	6,217.3	
	Lumens	% Lamp
Downward Street Side:	16,062.1	63.4%
Downward House Side:	9,202.8	36.3%
Downward Total:	25,264.9	99.8%
Upward Street Side:	24.6	0.1%
Upward House Side:	32.9	0.1%
Upward Total:	57.5	0.2%
Total Lumens:	25,322.4	100%

Flood Summary

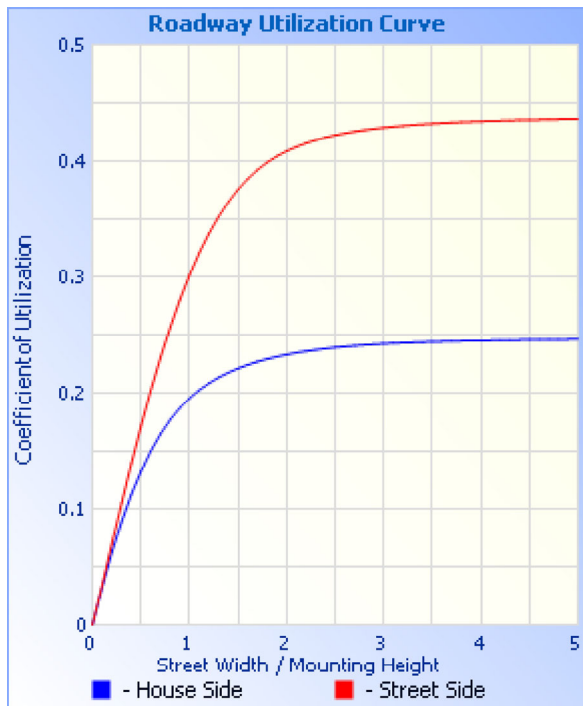
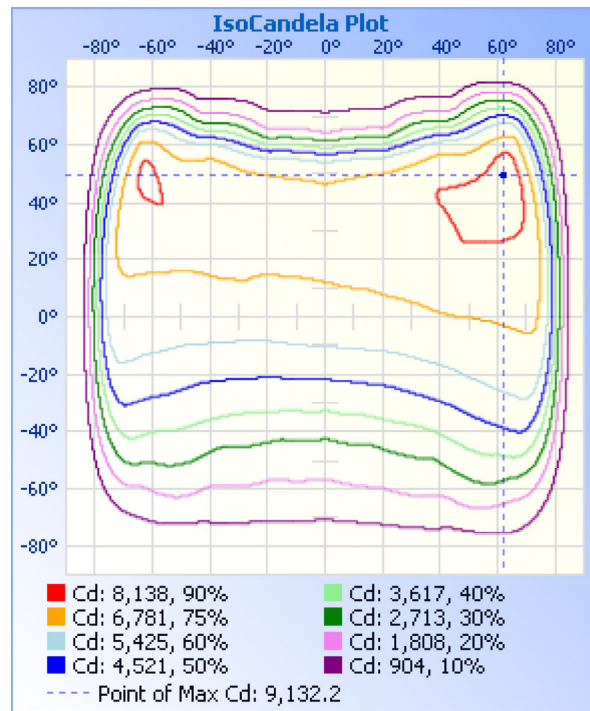
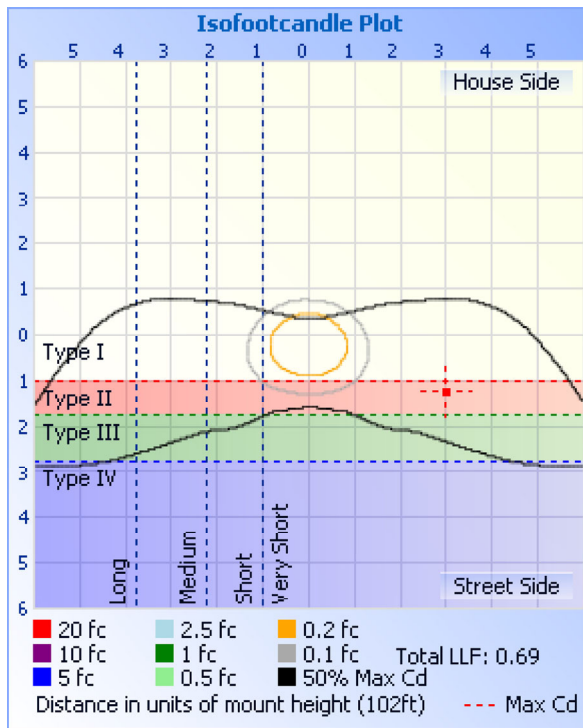
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.2%	24,863.9	164.1	157.1
Beam (50%):	75.8%	19,205.3	149.2	109.2
Total:	100%	25,310.1		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	5,029.7	19.9%	19.9%
0-40	8,641.3	34.1%	34.1%
0-60	17,547.5	69.3%	69.3%
60-90	7,716.0	30.5%	30.5%
70-100	3,581.1	14.1%	14.1%
90-120	35.8	0.1%	0.1%
0-90	25,263.5	99.8%	99.8%
90-180	57.5	0.2%	0.2%
0-180	25,321.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	587.3	2.3%	90-100	15.7	0.1%
10-20	1,713.6	6.8%	100-110	10.9	0%
20-30	2,728.7	10.8%	110-120	9.2	0%
30-40	3,611.7	14.3%	120-130	6.4	0%
40-50	4,298.4	17.0%	130-140	4.8	0%
50-60	4,607.8	18.2%	140-150	4.3	0%
60-70	4,150.6	16.4%	150-160	3.4	0%
70-80	2,931.3	11.6%	160-170	2.1	0%
80-90	634.1	2.5%	170-180	0.7	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	22.1 fc	47.0 ft	121.3 ft
33.3ft	5.56 fc	93.7 ft	241.9 ft
50.0ft	2.47 fc	140.7 ft	363.3 ft
66.7ft	1.39 fc	187.7 ft	484.6 ft
83.3ft	0.89 fc	234.4 ft	605.2 ft
100.0ft	0.62 fc	281.4 ft	726.5 ft

■ Vert. Spread: 109.2°
■ Horiz. Spread: 149.2°

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	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	1.07	1.01	.97	.92	1.04	.99	.95	.81	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80
2	.96	.86	.79	.72	.93	.84	.77	.65	.81	.75	.69	.77	.72	.68	.74	.70	.66	.64
3	.86	.74	.65	.58	.84	.73	.64	.54	.70	.62	.56	.67	.60	.55	.64	.59	.54	.52

4	.78	.65	.55	.48	.76	.64	.54	.45	.61	.53	.47	.58	.52	.46	.56	.50	.45	.43
5	.71	.57	.47	.40	.69	.56	.47	.38	.54	.46	.39	.52	.45	.39	.50	.44	.38	.36
6	.66	.51	.41	.34	.64	.50	.41	.33	.48	.40	.34	.46	.39	.33	.45	.38	.33	.31
7	.61	.46	.37	.30	.59	.45	.36	.29	.43	.35	.29	.42	.35	.29	.40	.34	.29	.27
8	.56	.42	.33	.26	.54	.41	.32	.25	.40	.32	.26	.38	.31	.26	.37	.30	.26	.24
9	.52	.38	.29	.23	.51	.37	.29	.23	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10	.49	.35	.27	.21	.48	.34	.26	.20	.33	.26	.21	.32	.25	.21	.31	.25	.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	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171	6171
1	6241	6225	6220	6199	6166	6143	6118	6106	6106	6109	6125	6153	6177	6205	6214	6241	6241
2	6301	6285	6261	6221	6168	6108	6068	6044	6038	6048	6080	6135	6183	6235	6263	6301	6301
3	6362	6343	6308	6249	6167	6079	6008	5972	5965	5986	6035	6116	6189	6268	6314	6360	6362
4	6419	6393	6353	6273	6167	6051	5958	5905	5892	5921	5988	6095	6195	6300	6364	6423	6419
5	6472	6443	6392	6293	6159	6022	5903	5831	5816	5850	5940	6079	6204	6336	6416	6474	6472
6	6522	6487	6437	6312	6156	5983	5852	5757	5735	5784	5899	6058	6209	6376	6464	6525	6522
7	6572	6530	6475	6334	6148	5952	5793	5685	5658	5718	5852	6039	6214	6405	6505	6582	6572
8	6623	6578	6512	6348	6140	5915	5736	5617	5579	5652	5804	6019	6218	6435	6552	6630	6623
9	6668	6617	6545	6359	6127	5886	5685	5545	5504	5581	5759	5998	6216	6468	6594	6672	6668
10	6710	6650	6573	6371	6117	5847	5625	5459	5414	5506	5708	5973	6220	6494	6637	6713	6710
11	6746	6687	6599	6384	6107	5815	5561	5389	5332	5433	5661	5943	6225	6519	6681	6753	6746
12	6777	6719	6630	6395	6096	5772	5497	5309	5252	5364	5602	5916	6225	6544	6719	6782	6777
13	6811	6749	6653	6412	6082	5732	5423	5244	5175	5297	5543	5886	6225	6565	6748	6822	6811
14	6831	6779	6672	6423	6068	5694	5370	5166	5092	5228	5494	5854	6228	6592	6785	6854	6831
15	6859	6800	6695	6438	6060	5649	5304	5096	5016	5158	5436	5827	6228	6617	6810	6891	6859
16	6882	6821	6720	6456	6050	5607	5243	5014	4938	5083	5383	5795	6232	6645	6846	6922	6882
17	6901	6842	6737	6471	6048	5570	5183	4940	4842	5010	5323	5765	6239	6669	6878	6952	6901
18	6919	6861	6759	6489	6039	5528	5117	4861	4762	4934	5261	5735	6246	6701	6907	6979	6919
19	6930	6883	6775	6514	6032	5493	5047	4786	4682	4859	5204	5709	6258	6736	6942	7002	6930
20	6943	6894	6796	6534	6030	5450	4985	4708	4601	4784	5146	5679	6268	6777	6976	7026	6943
21	6951	6903	6820	6548	6025	5415	4923	4635	4518	4713	5090	5656	6286	6809	7009	7048	6951
22	6967	6915	6841	6574	6021	5382	4863	4542	4441	4636	5030	5632	6291	6845	7044	7065	6967
23	6974	6924	6862	6593	6023	5345	4800	4468	4359	4564	4971	5610	6317	6892	7077	7085	6974
24	6975	6926	6884	6617	6018	5306	4740	4395	4284	4494	4918	5588	6332	6939	7105	7103	6975
25	6979	6938	6901	6639	6019	5269	4677	4325	4214	4423	4864	5565	6347	6987	7143	7113	6979
26	6980	6939	6925	6662	6011	5240	4613	4244	4126	4349	4811	5540	6355	7029	7184	7124	6980
27	6976	6947	6950	6685	6009	5203	4556	4172	4060	4277	4753	5515	6369	7079	7220	7130	6976
28	6973	6953	6973	6712	6008	5162	4504	4101	3982	4201	4703	5492	6392	7126	7263	7142	6973
29	6975	6958	6985	6735	6008	5136	4437	4029	3903	4135	4653	5477	6414	7172	7298	7152	6975
30	6973	6962	7008	6770	6010	5099	4379	3956	3826	4065	4604	5459	6438	7231	7331	7170	6973
31	6977	6972	7027	6795	6009	5065	4329	3878	3744	3981	4559	5435	6462	7275	7367	7179	6977
32	6987	6985	7039	6815	6019	5033	4269	3791	3645	3910	4505	5419	6491	7328	7402	7185	6987
33	6985	6993	7061	6846	6014	5002	4217	3709	3562	3835	4454	5406	6509	7376	7433	7191	6985
34	6995	7002	7083	6868	6014	4961	4156	3627	3466	3759	4406	5390	6537	7420	7465	7205	6995
35	6998	7013	7099	6896	6015	4930	4091	3546	3368	3684	4352	5367	6566	7469	7496	7218	6998
36	6999	7037	7115	6922	6014	4892	4037	3462	3286	3591	4300	5344	6595	7514	7522	7220	6999
37	6997	7039	7127	6944	6018	4860	3980	3366	3184	3516	4242	5312	6617	7547	7550	7216	6997
38	7010	7058	7148	6975	6022	4826	3916	3279	3087	3437	4183	5285	6647	7589	7581	7218	7010
39	7013	7071	7170	7000	6027	4790	3859	3190	2997	3350	4132	5261	6670	7621	7615	7229	7013
40	7016	7085	7197	7015	6030	4749	3792	3100	2908	3263	4076	5236	6689	7655	7648	7236	7016
41	7021	7103	7222	7034	6033	4722	3726	3005	2811	3181	4017	5202	6703	7684	7677	7240	7021
42	7018	7127	7246	7051	6030	4689	3661	2909	2712	3086	3948	5169	6718	7721	7702	7254	7018
43	7002	7138	7266	7065	6031	4658	3596	2826	2628	3008	3889	5147	6730	7747	7729	7259	7002
44	6973	7143	7298	7084	6025	4624	3522	2745	2551	2916	3833	5123	6745	7774	7758	7262	6973
45	6930	7142	7325	7098	6014	4590	3452	2660	2468	2835	3765	5100	6753	7808	7793	7253	6930
46	6871	7137	7361	7116	6008	4558	3381	2565	2384	2745	3690	5072	6755	7842	7825	7240	6871

47	6782	7114	7399	7150	6005	4532	3307	2486	2312	2665	3618	5053	6761	7882	7873	7209	6782
48	6685	7075	7439	7179	6000	4495	3227	2407	2246	2594	3552	5027	6758	7918	7912	7170	6685
49	6565	7023	7497	7217	5988	4465	3140	2334	2182	2517	3473	5002	6759	7959	7950	7116	6565
50	6429	6945	7539	7254	5986	4434	3064	2277	2128	2448	3397	4979	6764	8012	7991	7045	6429
51	6255	6861	7583	7291	6002	4400	2980	2209	2068	2385	3321	4955	6783	8062	8028	6954	6255
52	6040	6757	7619	7325	6007	4361	2894	2142	2013	2313	3227	4936	6807	8110	8070	6839	6040
53	5787	6622	7648	7370	6013	4333	2813	2090	1963	2247	3145	4906	6826	8154	8100	6686	5787
54	5512	6426	7667	7423	6037	4296	2720	2037	1911	2193	3065	4876	6830	8211	8114	6500	5512
55	5193	6227	7677	7478	6045	4255	2640	1983	1861	2130	2969	4847	6835	8266	8117	6293	5193
56	4856	5954	7677	7528	6050	4214	2567	1929	1817	2075	2887	4816	6837	8322	8102	6021	4856
57	4476	5688	7672	7591	6058	4162	2489	1873	1769	2025	2806	4773	6856	8380	8081	5725	4476
58	4078	5356	7648	7657	6068	4118	2413	1829	1723	1971	2731	4735	6867	8432	8049	5426	4078
59	3686	4972	7594	7713	6075	4062	2335	1778	1670	1926	2643	4691	6885	8499	7983	5055	3686
60	3283	4574	7510	7777	6077	3994	2268	1732	1625	1873	2552	4639	6900	8561	7900	4674	3283
61	2924	4192	7411	7846	6078	3924	2197	1677	1575	1818	2482	4582	6916	8611	7779	4255	2924
62	2549	3740	7273	7914	6094	3856	2123	1631	1524	1761	2406	4526	6940	8671	7654	3846	2549
63	2278	3358	7092	7985	6107	3773	2059	1580	1480	1710	2325	4454	6960	8749	7467	3423	2278
64	2005	2933	6883	8069	6123	3678	1991	1529	1424	1655	2245	4378	6967	8808	7234	3013	2005
65	1765	2549	6618	8136	6148	3587	1919	1460	1361	1590	2158	4288	6990	8855	6968	2633	1765
66	1568	2234	6316	8197	6165	3469	1842	1408	1303	1533	2086	4191	7014	8911	6683	2302	1568
67	1408	1938	5979	8272	6197	3364	1766	1345	1235	1465	2002	4088	7034	8959	6328	2029	1408
68	1290	1681	5576	8355	6224	3252	1700	1275	1161	1393	1913	3969	7053	9009	5917	1772	1290
69	1169	1483	5160	8412	6240	3134	1626	1199	1074	1322	1826	3845	7066	9047	5492	1583	1169
70	1070	1333	4702	8486	6250	2990	1537	1117	964	1239	1741	3714	7078	9078	5073	1405	1070
71	971	1200	4217	8548	6255	2850	1452	1016	815	1142	1654	3565	7091	9108	4582	1266	971
72	892	1087	3725	8588	6260	2705	1374	925	666	1037	1565	3409	7057	9132	4093	1144	892
73	796	976	3251	8582	6223	2557	1289	835	550	936	1464	3223	6961	9107	3559	1044	796
74	707	895	2762	8504	6109	2365	1189	740	481	858	1368	3040	6768	9018	3086	937	707
75	642	806	2356	8318	5894	2153	1065	636	429	762	1264	2808	6418	8815	2636	847	642
76	569	728	1956	7998	5592	1943	938	534	389	670	1151	2556	5999	8458	2223	762	569
77	509	664	1638	7528	5161	1732	825	443	351	574	1017	2299	5471	8008	1868	691	509
78	443	592	1351	6902	4625	1547	734	374	310	478	888	2048	4880	7491	1562	622	443
79	394	534	1140	6166	3962	1348	626	319	282	413	766	1827	4181	6936	1317	553	394
80	349	473	901	5349	3335	1179	523	285	247	353	663	1635	3504	6217	1069	494	349
81	297	413	705	4372	2688	1024	443	233	215	295	560	1429	2761	5484	864	430	297
82	255	360	555	3394	2074	845	364	204	191	260	456	1259	2063	4609	665	374	255
83	206	312	423	2546	1459	641	286	168	155	214	363	1074	1451	3700	522	322	206
84	176	253	321	1857	954	468	206	134	121	171	256	874	985	2792	406	274	176
85	137	200	232	1135	592	314	142	105	93	140	203	669	573	1969	314	218	137
86	107	148	158	616	343	188	88	61	68	101	136	450	315	1272	224	179	107
87	87	96	91	246	177	87	50	43	51	67	86	256	165	686	150	130	87
88	58	59	35	71	72	37	21	18	31	37	51	152	73	295	84	84	58
89	33	25	20	28	27	19	0	11	16	22	38	73	27	96	49	38	33
90	28	24	17	25	19	12	8	3	14	23	22	40	17	24	16	26	28
91	26	22	14	26	12	11	6	10	15	15	17	35	11	19	19	22	26
92	20	17	18	18	8	12	1	12	11	12	24	21	13	18	12	19	20
93	23	20	6	14	12	3	5	9	14	17	16	27	12	22	14	15	23
94	25	18	16	19	10	19	6	12	14	19	15	26	7	11	20	18	25
95	25	24	8	16	8	14	1	3	6	16	21	25	6	17	12	19	25

96	21	15	11	19	10	4	6	8	5	21	17	24	3	10	7	24	21
97	28	11	7	13	7	16	7	10	9	16	13	28	6	10	12	19	28
98	14	20	6	15	5	16	6	12	4	15	17	27	2	9	12	18	14
99	24	11	11	19	7	13	9	7	8	16	15	29	7	11	9	17	24
100	19	11	7	17	5	13	11	12	8	9	17	19	0	7	9	17	19
101	22	17	7	11	4	4	7	10	7	15	17	24	4	5	7	18	22
102	18	16	6	11	9	13	13	2	3	14	19	23	5	4	5	16	18
103	15	13	0	6	8	17	11	10	5	7	14	22	5	7	8	11	15
104	12	16	2	8	1	13	15	8	5	9	19	26	0	6	10	5	12
105	19	7	10	6	6	12	12	1	8	12	13	25	4	0	7	1	19
106	21	10	11	9	0	10	11	10	9	16	15	17	1	6	7	13	21
107	19	12	4	12	5	16	14	13	11	4	17	21	2	6	0	11	19
108	19	8	5	11	3	14	10	10	10	14	21	24	0	7	3	5	19
109	19	9	8	6	10	7	11	9	16	13	20	24	1	9	0	8	19
110	16	13	5	6	5	16	14	12	13	5	15	21	3	0	5	6	16
111	23	10	4	11	4	12	10	6	10	12	12	22	0	3	5	4	23
112	20	11	9	15	3	12	10	12	18	11	17	25	0	4	4	6	20
113	18	11	1	7	5	18	7	5	24	16	9	18	0	0	1	4	18
114	21	9	6	9	3	11	12	13	16	9	17	19	1	1	4	9	21
115	21	4	0	10	2	7	14	10	14	3	10	20	0	1	0	9	21
116	23	8	2	6	3	16	14	12	15	16	16	12	0	0	1	2	23
117	15	8	8	4	2	10	8	15	22	12	9	28	0	6	5	9	15
118	19	11	0	10	0	13	12	10	14	12	13	20	3	2	5	10	19
119	8	4	7	6	0	7	10	9	11	8	14	16	4	0	7	12	8
120	19	1	0	6	2	9	10	8	14	10	14	17	0	0	0	8	19
121	18	6	3	5	0	11	13	9	11	9	11	19	0	2	4	3	18
122	9	4	2	7	2	13	16	11	10	8	9	17	0	0	4	6	9
123	12	6	6	4	0	7	12	10	15	7	17	19	0	0	2	4	12
124	13	14	0	5	0	16	15	7	14	11	13	13	0	0	5	11	13
125	13	0	4	6	4	8	9	12	9	10	11	14	0	0	1	4	13
126	9	0	0	11	0	10	5	8	5	8	11	17	0	0	2	8	9
127	16	9	0	2	4	9	0	13	8	13	7	18	0	0	0	8	16
128	14	7	1	7	0	8	13	9	15	13	12	11	0	1	1	8	14
129	11	0	2	2	0	2	14	10	19	13	12	14	0	0	0	12	11
130	14	9	9	6	0	5	9	4	15	6	11	19	0	0	0	1	14
131	13	6	0	2	0	9	10	11	13	6	7	12	1	0	0	10	13
132	14	5	1	0	0	4	0	11	16	13	9	8	2	0	0	0	14
133	18	5	4	5	0	4	7	11	18	13	7	8	0	7	0	8	18
134	15	9	0	8	0	1	7	16	13	14	11	10	0	1	0	7	15
135	9	8	5	11	0	1	11	10	9	9	6	8	0	1	0	10	9
136	11	8	4	6	0	0	4	6	19	11	9	0	0	0	3	6	11
137	13	10	0	4	0	3	4	15	19	8	0	12	1	3	0	1	13
138	11	5	2	0	0	1	11	15	15	10	3	13	1	0	1	7	11
139	16	0	0	7	0	6	9	14	13	15	6	8	0	3	2	5	16
140	10	10	9	4	0	1	6	12	17	9	7	9	0	0	1	12	10
141	16	7	5	11	0	5	10	11	21	10	9	15	0	0	1	0	16
142	11	14	6	8	0	2	2	12	17	12	6	6	0	4	0	2	11
143	18	6	3	5	0	0	10	14	12	11	2	4	2	0	3	5	18
144	15	10	2	7	0	2	12	17	15	11	8	10	0	1	4	7	15

145	8	14	3	4	0	8	4	10	13	11	6	6	0	1	9	1	8
146	11	13	1	5	0	11	10	9	18	3	3	9	0	1	6	4	11
147	13	10	0	11	0	6	10	11	15	15	4	13	2	4	4	10	13
148	1	11	5	7	0	8	7	16	12	14	9	8	1	1	4	4	1
149	11	9	3	4	0	6	5	14	19	16	1	5	1	8	3	5	11
150	15	8	1	5	0	3	7	13	13	17	5	5	0	1	9	3	15
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152	11	13	5	14	0	8	8	14	18	15	8	7	0	4	10	5	11
153	9	13	4	9	0	2	5	16	16	19	1	12	2	1	4	8	9
154	15	10	4	9	0	4	10	14	15	7	4	5	0	8	0	4	15
155	8	8	5	6	0	2	8	9	17	18	4	4	2	3	3	7	8
156	13	9	1	11	0	1	8	13	19	10	3	3	0	4	0	10	13
157	11	13	1	14	0	8	9	13	7	6	3	8	2	3	5	10	11
158	11	15	2	9	0	4	8	14	19	8	2	9	0	2	5	7	11
159	10	9	2	12	0	6	11	14	21	17	3	7	0	9	6	9	10
160	9	12	6	12	0	1	0	13	20	12	4	4	0	5	7	7	9
161	10	10	8	6	0	0	7	8	16	15	8	10	4	5	0	11	10
162	11	11	9	4	0	4	9	10	14	16	4	11	1	0	3	12	11
163	6	7	5	10	0	4	3	8	14	11	6	11	3	3	4	0	6
164	13	0	9	10	0	6	14	5	16	15	5	0	4	8	0	10	13
165	15	11	4	13	0	0	7	14	11	23	10	3	0	4	5	3	15
166	10	12	6	10	0	1	7	13	15	12	7	5	2	2	7	8	10
167	12	11	2	13	0	0	10	19	15	14	2	8	0	3	11	8	12
168	10	13	4	16	0	6	0	15	17	15	4	10	3	8	8	3	10
169	11	16	8	11	0	0	4	8	12	12	0	7	2	6	8	8	11
170	12	12	5	11	0	4	5	11	12	18	8	9	0	10	2	6	12
171	12	15	4	5	0	1	10	14	16	18	4	10	1	6	8	8	12
172	6	10	3	14	0	5	4	10	12	14	5	10	0	3	1	11	6
173	14	12	7	7	0	2	4	16	13	12	4	6	0	6	7	8	14
174	11	13	0	11	0	4	8	14	18	13	11	8	1	4	8	5	11
175	14	10	4	10	0	2	9	9	15	12	9	8	0	0	7	5	14
176	12	11	6	12	0	2	6	4	11	14	8	9	0	8	8	8	12
177	12	14	4	11	0	0	4	13	11	13	6	8	3	0	0	5	12
178	14	9	7	5	0	3	10	7	12	14	9	7	0	3	7	3	14
179	8	4	7	8	0	0	6	8	14	10	5	8	1	4	6	4	8
180	12	3	3	12	0	4	6	13	9	7	8	8	1	3	11	7	12

Luminaire Report Summary

IESNA:LM-63-2002
[TEST]
[TESTLAB]
[ISSUEDATE] 2018-1-30 02:03
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SB7-4000-200-T3-277V
[_TOTALLUMINAIRELUMENS] 25321
[VOLTAGE] 276.3 V
[CURRENT] 0.751 A
[POWERFACTOR] 0.941
[TESTINST] GPM-3000
[TESTDIST] 17.398 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.