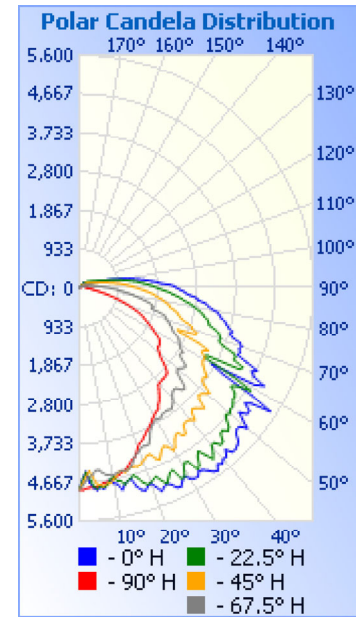


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Wall Pack SWP 120W - 120V  
**Manufacturer:** SARIN Energy Inc.  
**Luminaire:** SES-SWP-4000-120 120V  
**Lamp Output:** Total luminaire Lumens: 15525.1  
**Max Candela:** 5,519.2 at Horizontal: 0°, Vertical: 37°  
**Input Wattage:** 118.6  
**Luminous Opening:** Point  
**Test Date:** 2017-11-08  
**Test Lab:** EVERFINE  
**Photometry :** Type C  
**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	2,334.5	
Max Cd, 80 to <90 Deg:	3,363.7	
	Lumens	% Lamp
Downward Street Side:	10,427.4	67.2%
Downward House Side:	3,974.4	25.6%
Downward Total:	14,401.8	92.8%
Upward Street Side:	1,032.9	6.7%
Upward House Side:	91.2	0.6%
Upward Total:	1,124.0	7.2%
<b>Total Lumens:</b>	<b>15,525.8</b>	<b>100%</b>

### Flood Summary

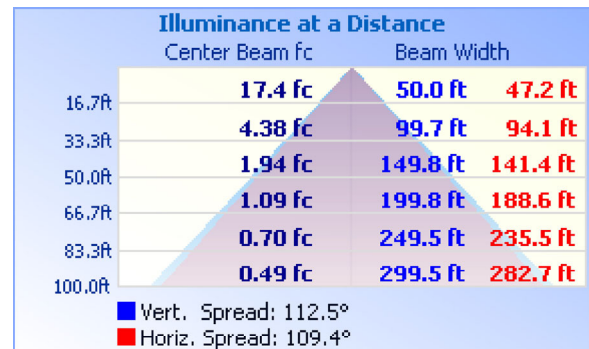
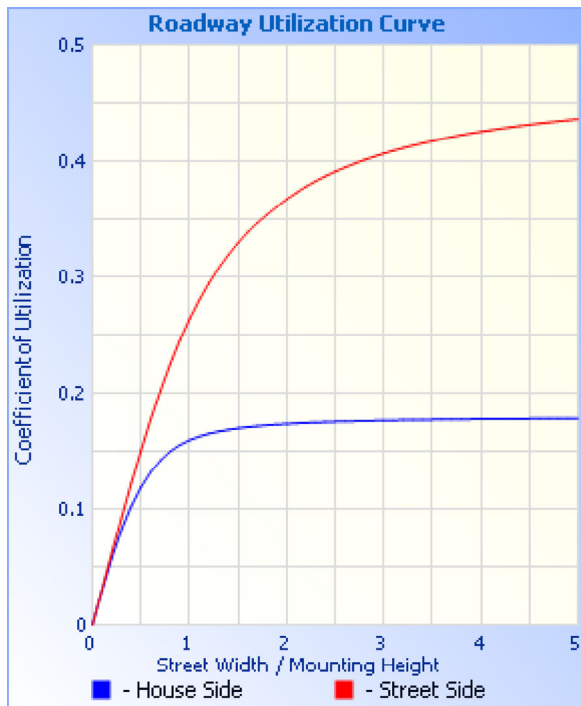
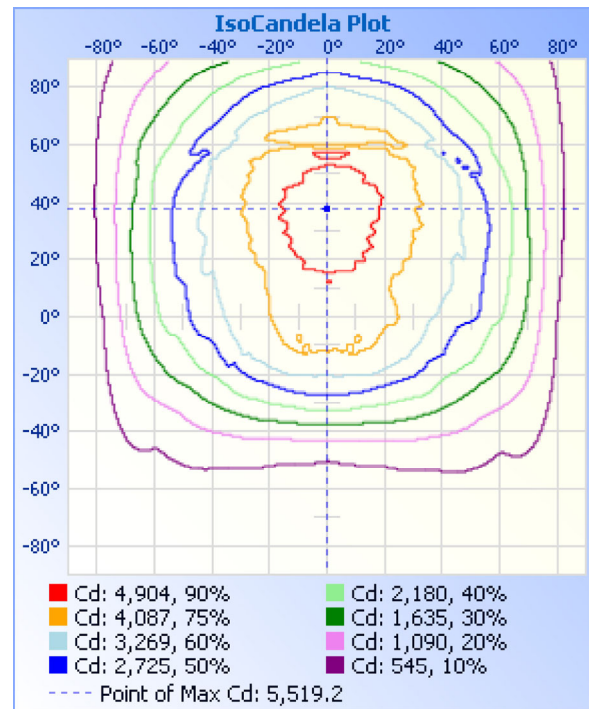
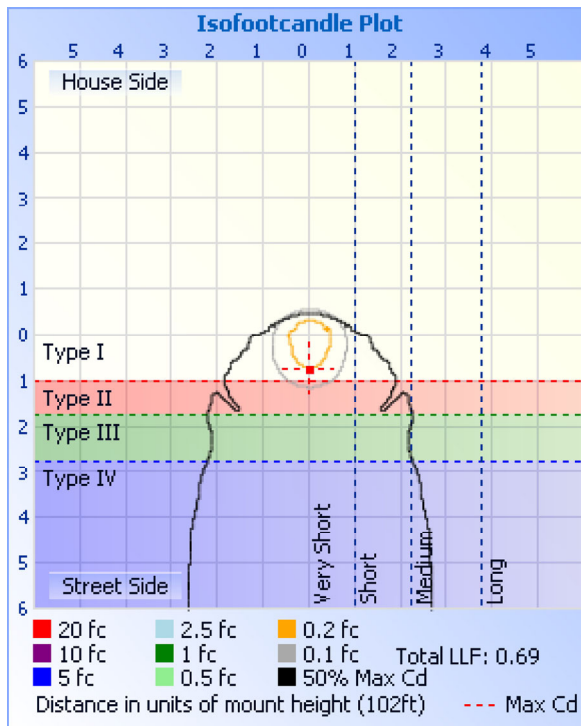
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	14,704.3	163	157.3
Beam (50%):	67.2%	10,430.7	109.4	112.5
<b>Total:</b>	<b>100%</b>	<b>15,526.3</b>		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,477.6	22.4%
0-40	5,614.6	36.2%
0-60	10,002.0	64.4%
60-90	4,398.9	28.3%
70-100	3,090.5	19.9%
90-120	990.1	6.4%
0-90	14,400.9	92.8%
90-180	1,124.3	7.2%
0-180	15,525.1	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	437.7	2.8%	90-100	583.9	3.8%
10-20	1,232.6	7.9%	100-110	275.6	1.8%
20-30	1,807.3	11.6%	110-120	130.6	0.8%
30-40	2,137.0	13.8%	120-130	77.7	0.5%
40-50	2,236.9	14.4%	130-140	37.0	0.2%
50-60	2,150.5	13.9%	140-150	10.4	0.1%
60-70	1,892.3	12.2%	150-160	4.6	0%
70-80	1,496.3	9.6%	160-170	3.1	0%
80-90	1,010.3	6.5%	170-180	1.3	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	1.17	1.17	1.17	1.17	1.14	1.14	1.14	.93	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.93
1	1.05	.99	.94	.89	1.01	.96	.91	.74	.90	.86	.83	.85	.82	.79	.80	.78	.75	.73
2	.94	.85	.77	.71	.91	.82	.75	.60	.78	.72	.67	.73	.68	.64	.69	.65	.61	.59
3	.86	.74	.65	.58	.82	.72	.64	.50	.68	.61	.55	.64	.58	.53	.60	.56	.51	.49

4	.78	.65	.56	.49	.75	.63	.55	.43	.60	.52	.46	.57	.50	.45	.54	.48	.44	.41
5	.72	.58	.49	.42	.69	.57	.48	.37	.54	.46	.40	.51	.44	.39	.48	.42	.38	.35
6	.66	.52	.43	.36	.64	.51	.42	.33	.48	.41	.35	.46	.39	.34	.44	.38	.33	.31
7	.61	.47	.38	.32	.59	.46	.38	.29	.44	.36	.31	.42	.35	.30	.40	.34	.29	.27
8	.57	.43	.34	.28	.55	.42	.34	.26	.40	.33	.27	.38	.32	.27	.37	.31	.26	.24
9	.53	.40	.31	.26	.51	.39	.31	.23	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10	.50	.37	.28	.23	.48	.36	.28	.21	.34	.27	.22	.33	.26	.22	.31	.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	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862	4862
1	4605	4622	4687	4766	4872	4923	4814	4707	4662	4662	4728	4841	4831	4718	4648	4611	4605
2	4435	4444	4546	4648	4835	4768	4546	4513	4509	4487	4500	4690	4831	4626	4533	4453	4435
3	4705	4578	4416	4572	4820	4607	4496	4492	4516	4479	4464	4572	4829	4575	4444	4635	4705
4	4829	4789	4571	4514	4824	4504	4482	4535	4461	4519	4482	4480	4794	4490	4687	4802	4829
5	4895	4860	4744	4419	4812	4474	4549	4224	4183	4211	4543	4432	4727	4433	4790	4887	4895
6	4829	4802	4781	4409	4776	4446	4337	4316	4459	4312	4338	4398	4699	4507	4851	4822	4829
7	4880	4846	4812	4481	4741	4420	4168	4737	5168	4706	4111	4391	4693	4630	4823	4900	4880
8	4753	4802	4760	4546	4728	4446	4387	4982	4252	5003	4299	4420	4680	4664	4791	4800	4753
9	4692	4686	4771	4567	4707	4535	4809	3846	3457	3907	4710	4496	4640	4672	4803	4696	4692
10	4786	4626	4694	4587	4661	4428	5019	3476	4401	3462	5081	4481	4591	4650	4719	4686	4786
11	4821	4734	4625	4564	4631	4183	4107	4720	4747	4588	4295	4265	4589	4620	4617	4801	4821
12	4976	4752	4533	4539	4605	4066	3598	4584	3875	4638	3651	4076	4602	4602	4558	4811	4976
13	4857	4866	4523	4512	4556	4098	3712	3860	4050	3854	3626	4037	4583	4655	4614	4925	4857
14	4795	4789	4580	4530	4522	4273	4527	4018	3733	4015	4247	4121	4549	4665	4614	4828	4795
15	4755	4751	4523	4536	4456	4546	4499	3784	3948	3775	4561	4299	4503	4563	4560	4790	4755
16	4977	4694	4481	4482	4374	4741	4024	3893	3846	3847	4210	4520	4453	4431	4560	4750	4977
17	5090	4788	4492	4379	4317	4529	3760	3794	3862	3823	3772	4624	4441	4342	4605	4870	5090
18	5137	4926	4515	4275	4285	4037	3855	3816	3508	3800	3825	4403	4447	4275	4595	5021	5137
19	5051	5015	4498	4211	4194	3676	3770	3595	3333	3673	3758	3986	4401	4238	4534	5068	5051
20	5012	4999	4432	4180	4083	3573	3736	3295	3261	3334	3738	3651	4339	4227	4467	5030	5012
21	5141	4946	4388	4118	4001	3583	3612	3266	3289	3253	3658	3488	4301	4241	4444	4993	5141
22	5291	4899	4337	4094	3977	3789	3555	3164	3174	3165	3544	3488	4290	4183	4438	4967	5291
23	5210	5042	4342	4114	3924	4024	3557	3078	3059	3088	3521	3647	4256	4086	4585	5192	5210
24	5163	5168	4482	4108	3862	4030	3405	2993	2947	3011	3475	3914	4144	3996	4674	5185	5163
25	5233	5057	4554	3995	3812	3899	3261	2907	2952	2933	3313	3989	4029	3927	4539	5097	5233
26	5355	4954	4449	3868	3775	3682	3117	2859	2843	2824	3181	3888	3976	3870	4457	5028	5355
27	5376	4924	4351	3782	3719	3484	2972	2830	2688	2809	3049	3662	3911	3844	4437	5068	5376
28	5265	5200	4309	3723	3673	3477	2912	2707	2599	2712	2918	3463	3790	3858	4462	5342	5265
29	5184	5212	4358	3685	3611	3413	2863	2567	2525	2579	2857	3365	3687	3862	4612	5199	5184
30	5307	5009	4509	3661	3567	3268	2781	2464	2427	2458	2794	3366	3607	3837	4574	5073	5307
31	5358	4896	4455	3677	3524	3281	2679	2383	2303	2382	2725	3261	3527	3809	4426	4948	5358
32	5365	4919	4314	3687	3502	3293	2564	2279	2215	2282	2633	3130	3468	3792	4342	5112	5365
33	5258	5213	4230	3630	3479	3135	2497	2163	2101	2183	2505	3140	3447	3758	4321	5306	5258
34	5290	5145	4203	3636	3383	2977	2444	2081	1995	2085	2446	3069	3389	3730	4456	5144	5290
35	5369	4942	4330	3621	3339	2820	2374	1975	1880	1989	2397	2997	3299	3762	4473	4974	5369
36	5471	4848	4337	3635	3262	2711	2290	1877	1749	1901	2306	2924	3286	3799	4320	4957	5471
37	5519	5018	4145	3661	3178	2735	2188	1773	1632	1802	2232	2779	3264	3774	4273	5243	5519
38	5379	5214	4116	3611	3093	2743	2109	1673	1508	1698	2148	2639	3232	3649	4264	5310	5379
39	5444	5094	4107	3563	3010	2710	2043	1566	1398	1591	2070	2586	3192	3544	4304	5120	5444
40	5361	4927	4150	3480	2979	2569	1963	1460	1294	1485	2011	2596	3127	3535	4311	5022	5361
41	5373	4928	4220	3387	2976	2381	1879	1365	1201	1393	1938	2607	3099	3593	4139	5112	5373
42	5233	5069	4026	3347	2965	2264	1795	1268	1123	1297	1838	2550	3023	3653	4128	5231	5233
43	5386	5051	3981	3321	2972	2208	1695	1181	1041	1205	1763	2371	2930	3718	4212	5114	5386
44	5390	4875	4023	3348	2954	2171	1615	1097	948	1125	1677	2227	2871	3642	4274	4957	5390
45	5358	4849	4097	3458	2953	2106	1532	1022	870	1050	1601	2142	2829	3454	4250	5008	5358
46	5299	4955	4166	3501	2921	2035	1457	940	782	974	1513	2103	2804	3339	4057	5133	5299

47	5137	4905	3930	3434	2841	1978	1371	876	704	897	1436	2047	2790	3298	3972	5026	5137
48	5082	4751	3853	3257	2733	1894	1295	810	646	830	1349	2003	2796	3275	3993	4845	5082
49	5085	4651	3873	3104	2615	1817	1213	746	587	774	1281	1918	2776	3289	4126	4821	5085
50	5252	4711	3959	3054	2510	1751	1137	699	534	713	1205	1841	2765	3415	4144	4870	5252
51	5047	4652	4012	3069	2462	1666	1070	642	493	660	1127	1779	2766	3438	3919	4869	5047
52	4863	4659	3811	3137	2386	1589	1000	595	453	612	1061	1708	2753	3319	3846	4830	4863
53	5043	4611	3691	3173	2359	1526	936	551	416	568	984	1637	2643	3171	3843	4763	5043
54	5040	4557	3672	3137	2367	1462	874	511	382	520	919	1551	2528	3066	3895	4666	5040
55	4848	4553	3729	3002	2349	1389	821	476	348	485	856	1483	2408	3069	3814	4714	4848
56	4985	4492	3644	2895	2317	1321	761	444	318	453	802	1406	2323	3146	3704	4581	4985
57	5457	4342	3560	2903	2294	1247	713	413	290	422	756	1354	2290	3044	3700	4510	5457
58	4892	4457	3498	2929	2218	1168	668	382	267	391	705	1285	2215	2964	3690	4777	4892
59	3989	4796	3444	2827	2140	1098	621	353	245	362	656	1215	2193	2921	3636	4865	3989
60	3650	4245	3447	2784	2056	1033	580	330	224	337	615	1137	2196	2910	3661	4120	3650
61	4803	3415	3446	2733	2005	966	550	308	205	315	574	1073	2138	2914	3570	3285	4803
62	5016	3467	3325	2703	1925	893	524	289	186	294	543	1004	2110	2780	3513	3951	5016
63	4697	4311	3323	2672	1855	838	498	270	169	274	517	926	2026	2706	3577	4539	4697
64	4595	4364	3443	2571	1784	772	473	252	155	255	493	864	1935	2662	3475	4438	4595
65	4707	4085	3162	2483	1720	717	449	237	148	239	468	796	1855	2643	2952	4214	4707
66	4383	4100	2639	2432	1660	667	427	226	140	226	444	731	1792	2599	2566	4247	4383
67	4120	4009	2563	2401	1574	623	406	215	133	217	423	676	1723	2565	3040	4037	4120
68	4158	3693	3001	2335	1481	582	385	205	125	206	401	627	1642	2500	3212	3774	4158
69	4106	3586	3018	2301	1379	546	365	195	118	198	381	584	1561	2433	3076	3724	4106
70	4136	3609	2866	2234	1291	516	346	186	110	188	360	542	1480	2391	2991	3724	4136
71	4072	3558	2855	2195	1195	493	327	175	104	178	340	509	1387	2373	2878	3679	4072
72	3860	3516	2716	2153	1103	472	307	163	98	168	321	484	1286	2238	2716	3626	3860
73	3775	3396	2561	2019	1004	449	288	152	92	158	299	460	1174	2004	2618	3484	3775
74	3825	3237	2506	1798	901	427	270	139	86	145	279	441	1067	1945	2570	3376	3825
75	3703	3209	2455	1796	802	406	252	128	79	134	260	421	961	2017	2520	3359	3703
76	3642	3166	2411	1829	709	383	236	117	72	122	242	402	856	1998	2463	3288	3642
77	3583	3075	2312	1776	624	362	223	107	66	111	226	380	762	1885	2373	3192	3583
78	3480	3029	2222	1701	551	340	208	96	60	101	211	357	668	1783	2312	3127	3480
79	3423	2938	2190	1602	489	320	194	87	55	91	197	336	588	1683	2269	3040	3423
80	3364	2845	2129	1503	437	298	180	78	51	81	183	315	517	1609	2187	2933	3364
81	3207	2754	2054	1404	392	278	165	69	46	72	170	293	456	1536	2128	2843	3207
82	3115	2653	1989	1316	352	260	150	60	41	62	156	275	399	1462	2065	2732	3115
83	3040	2535	1903	1234	316	243	137	52	37	53	142	256	354	1352	1985	2616	3040
84	2866	2448	1839	1145	287	228	124	45	32	45	129	240	319	1264	1906	2536	2866
85	2828	2357	1786	1058	262	213	111	37	28	37	117	225	287	1195	1835	2427	2828
86	2680	2244	1698	985	243	199	98	30	24	29	105	211	260	1114	1763	2330	2680
87	2564	2172	1615	909	227	185	86	24	18	20	93	197	234	1034	1671	2219	2564
88	2503	2053	1533	840	215	173	72	16	12	12	80	183	214	957	1598	2097	2503
89	2414	1951	1451	766	205	162	59	8	8	7	68	172	202	889	1526	2016	2414
90	2335	1868	1386	704	198	152	54	8	8	7	63	161	193	809	1460	1921	2335
91	2273	1789	1299	641	192	143	50	8	9	7	59	151	186	740	1394	1843	2273
92	2156	1711	1232	583	185	135	47	8	9	7	55	142	179	678	1322	1767	2156
93	1956	1624	1158	531	177	128	44	8	9	8	51	133	173	618	1241	1689	1956
94	1889	1536	1096	483	169	122	41	8	9	8	48	127	167	565	1166	1605	1889
95	1758	1449	1035	444	161	117	38	8	9	8	45	123	159	516	1098	1520	1758

96	1649	1392	966	405	154	112	35	9	10	8	42	118	153	473	1027	1435	1649
97	1540	1298	881	376	148	107	33	9	10	8	40	113	146	434	954	1322	1540
98	1431	1210	830	351	142	102	31	9	10	8	38	108	141	402	890	1234	1431
99	1324	1123	765	330	137	97	29	9	10	8	36	103	135	375	827	1145	1324
100	1228	1047	707	309	133	93	27	9	10	9	34	98	130	348	762	1064	1228
101	1107	972	653	286	128	88	26	9	11	9	32	94	126	325	702	991	1107
102	1011	905	603	271	124	83	24	9	11	9	30	89	123	303	650	918	1011
103	912	828	553	253	119	79	22	10	11	9	28	85	120	284	599	848	912
104	823	767	511	237	114	74	21	10	11	9	26	81	117	266	550	780	823
105	740	706	467	223	109	71	19	10	11	10	25	76	114	250	506	719	740
106	666	651	429	209	105	66	18	10	11	10	23	72	110	234	465	661	666
107	581	599	398	196	101	63	17	10	11	10	21	68	106	221	429	610	581
108	494	551	370	184	99	59	16	10	11	10	20	64	102	208	399	563	494
109	426	509	345	173	96	55	15	10	11	10	19	60	98	195	374	520	426
110	379	473	323	163	93	52	13	10	11	10	17	57	95	184	349	483	379
111	344	442	302	152	90	49	13	10	11	10	16	53	92	174	328	452	344
112	313	415	285	143	87	46	12	10	11	10	15	50	89	163	307	427	313
113	286	393	271	135	84	43	11	10	12	10	14	47	86	153	290	404	286
114	272	375	258	127	81	40	10	10	12	10	13	44	83	144	277	385	272
115	265	359	247	120	78	38	10	10	12	10	12	42	81	136	265	368	265
116	259	341	238	113	75	35	10	10	12	10	11	39	78	129	255	352	259
117	255	326	230	107	72	33	9	10	12	10	11	37	75	122	246	337	255
118	252	311	222	100	70	30	9	10	12	10	10	34	73	114	237	322	252
119	250	298	213	94	67	28	9	10	12	10	9	32	70	107	227	308	250
120	245	285	204	88	64	26	8	10	12	10	9	30	68	99	219	297	245
121	240	277	194	84	61	25	8	10	12	10	9	27	66	93	209	288	240
122	234	271	185	78	58	23	8	10	12	10	8	26	62	87	200	283	234
123	229	263	176	73	54	22	8	10	12	10	8	24	59	80	191	277	229
124	223	255	167	69	51	20	8	10	12	10	8	23	56	75	182	267	223
125	217	247	158	66	47	19	8	10	12	10	8	22	53	69	173	259	217
126	211	240	148	62	44	17	8	10	11	10	8	20	50	65	164	252	211
127	203	232	139	58	41	16	8	10	11	10	8	19	47	61	154	245	203
128	195	224	129	54	39	15	8	10	11	10	8	18	44	57	145	236	195
129	187	214	120	51	36	14	8	10	11	10	8	16	41	54	135	227	187
130	179	204	110	48	34	13	8	10	11	10	8	16	39	51	125	216	179
131	171	193	99	44	31	12	9	10	11	10	9	15	36	47	115	205	171
132	163	180	89	41	29	12	9	10	11	10	9	14	34	44	105	193	163
133	153	168	79	38	27	11	9	10	11	10	9	13	32	42	94	181	153
134	144	156	69	36	25	10	9	10	11	10	9	12	29	39	84	167	144
135	136	143	59	34	23	10	9	10	11	10	9	12	27	37	73	154	136
136	127	130	49	31	21	9	9	10	10	10	9	11	25	34	63	140	127
137	118	116	40	29	20	9	9	10	10	10	9	10	24	32	52	126	118
138	108	103	32	27	18	9	9	10	10	10	9	10	22	29	42	112	108
139	98	90	25	24	17	8	9	10	10	10	9	9	20	26	33	98	98
140	87	77	20	23	16	8	9	10	10	11	9	9	19	24	26	85	87
141	77	65	18	20	15	8	10	10	11	11	10	9	18	22	19	72	77
142	67	53	16	18	14	8	10	10	11	11	10	8	16	20	16	60	67
143	57	42	15	17	13	8	10	10	11	11	10	8	15	19	15	49	57
144	48	32	13	16	11	9	10	10	11	11	10	9	14	17	14	38	48

145	39	23	12	14	9	9	10	10	11	11	10	9	13	16	13	29	39
146	31	16	11	13	10	9	10	10	11	12	11	9	12	14	12	21	31
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178	13	14	14	14	14	14	15	15	14	13	14	14	14	15	15	14	13
179	13	14	14	14	14	14	15	15	14	12	13	14	14	15	15	14	13
180	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13



<b>Luminaire Report Summary</b>
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IESNA:LM-63-2002
[TEST]
[TESTDATE] 2017-11-08
[TESTLAB] EVERFINE
[ISSUEDATE] 2018-02-25 17:17:40
[MANUFAC] SARIN Energy Inc.
[LUMINAIRE] SES-SWP-4000-120 120V
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 15525.1
[OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 437.75
437.75 2.82 2.8210- 20 1232.72 1670.47 10.76 10.7620- 30 1807.35 3477.81 22.40
22.4030- 40 2137.26 5615.07 36.17 36.1740- 50 2237.29 7852.36 50.58 50.5850- 60
2150.80 10003.16 64.44 64.4460- 70 1892.00 11895.16 76.63 76.6370- 80 1495.43
13390.59 86.26 86.2680- 90 1009.46 14400.05 92.76 92.7690-100 583.32 14983.38
96.52 96.52100-110 275.40 15258.78 98.30 98.30110-120 130.50 15389.27 99.14
99.14120-130 77.63 15466.90 99.64 99.64130-140 37.04 15503.94 99.87 99.87140-150
10.44 15514.38 99.94 99.94150-160 4.58 15518.96 99.97 99.97160-170 3.10 15522.06
99.99 99.99170-180 1.31 15523.37 100.00 100.00

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FILE: CREATED USING ABSOLUTE PHOTOMETRY
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.