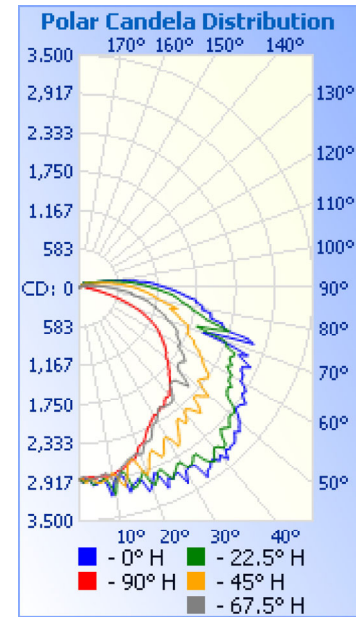


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Wall Pack SWP 80W - 277V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SWP-XXXX-80-277V  
**Lamp Output:** Total luminaire Lumens: 9526.5  
**Max Candela:** 3,432.7 at Horizontal: 0°, Vertical: 34°  
**Input Wattage:** 76.7  
**Luminous Opening:** Point  
**Test Date:** 2017-12-01  
**Test Lab:** Standard-Tech Co. Ltd  
**Photometry :** Type C  
**Nema Type:** 7 X 7

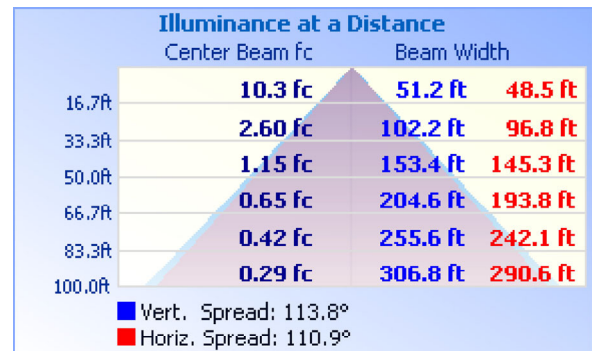
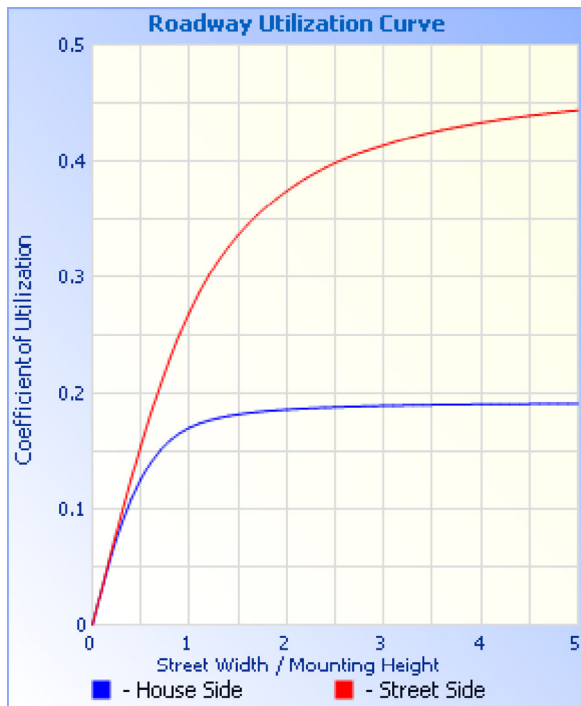
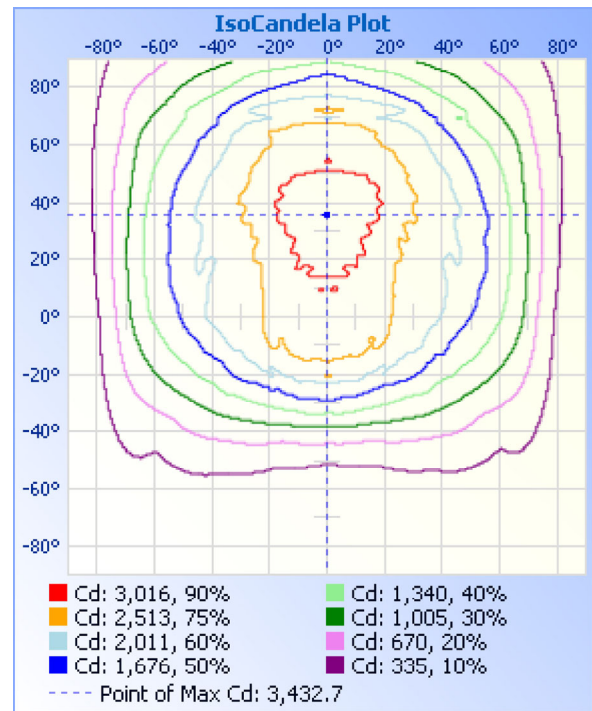
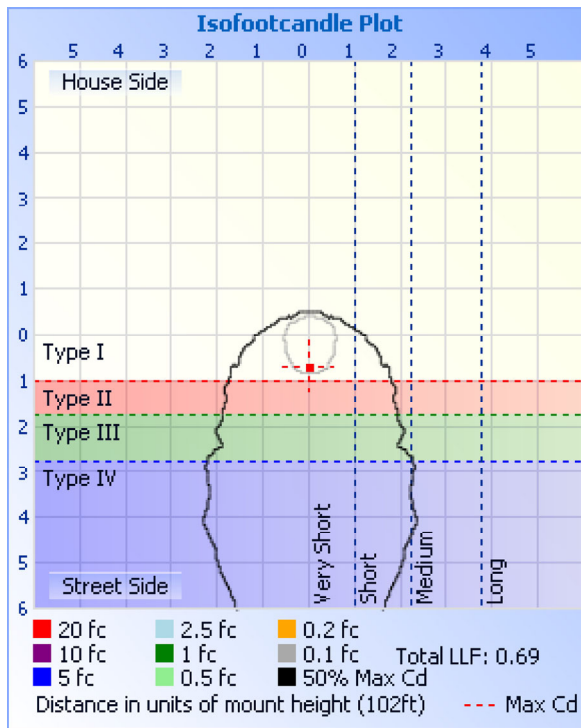


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	1,305.0	
Max Cd, 80 to <90 Deg:	1,873.2	
	Lumens	% Lamp
Downward Street Side:	6,366.6	66.8%
Downward House Side:	2,540.1	26.7%
Downward Total:	8,906.8	93.5%
Upward Street Side:	563.0	5.9%
Upward House Side:	57.2	0.6%
Upward Total:	620.2	6.5%
Total Lumens:	9,526.9	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	9,021.9	163	156
Beam (50%):	67.7%	6,449.1	110.9	113.8
Total:	100%	9,525.9		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2,170.5	22.8%
0-40	3,497.5	36.7%
0-60	6,224.9	65.3%
60-90	2,681.3	28.1%
70-100	1,837.8	19.3%
90-120	542.4	5.7%
0-90	8,906.2	93.5%
90-180	620.3	6.5%
0-180	9,526.5	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	273.2	2.9%	90-100	328.9	3.5%
10-20	771.2	8.1%	100-110	144.2	1.5%
20-30	1,126.1	11.8%	110-120	69.4	0.7%
30-40	1,327.0	13.9%	120-130	45.2	0.5%
40-50	1,396.9	14.7%	130-140	21.5	0.2%
50-60	1,330.5	14.0%	140-150	5.9	0.1%
60-70	1,172.4	12.3%	150-160	2.7	0%
70-80	910.7	9.6%	160-170	1.8	0%
80-90	598.3	6.3%	170-180	0.8	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	1.02	1.02	1.02	.96	.96	.96	.93
1	1.05	.99	.94	.89	1.01	.96	.92	.74	.91	.87	.83	.86	.82	.80	.81	.78	.76	.73
2	.95	.85	.78	.71	.91	.83	.76	.61	.78	.72	.67	.74	.69	.65	.70	.66	.62	.60
3	.86	.74	.65	.58	.83	.72	.64	.51	.68	.61	.56	.65	.59	.54	.61	.56	.52	.49

4	.78	.66	.56	.49	.75	.64	.55	.44	.60	.53	.47	.57	.51	.46	.54	.49	.44	.42
5	.72	.58	.49	.42	.69	.57	.48	.38	.54	.46	.40	.51	.45	.39	.49	.43	.38	.36
6	.66	.53	.43	.37	.64	.51	.42	.33	.49	.41	.35	.46	.40	.34	.44	.38	.34	.31
7	.62	.48	.39	.32	.59	.46	.38	.29	.44	.37	.31	.42	.35	.30	.40	.34	.30	.28
8	.57	.43	.35	.29	.55	.42	.34	.26	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9	.54	.40	.31	.26	.52	.39	.31	.24	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10	.50	.37	.29	.23	.49	.36	.28	.22	.34	.27	.23	.33	.27	.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	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883	2883
1	2928	2923	2884	2844	2884	2940	2940	2897	2871	2873	2898	2908	2865	2846	2893	2917	2928
2	2882	2916	2944	2868	2864	2894	2814	2817	2826	2817	2789	2869	2882	2918	2944	2899	2882
3	2908	2892	2880	2898	2861	2848	2842	2877	2814	2848	2851	2794	2885	2936	2894	2906	2908
4	2983	2975	2892	2886	2856	2801	2868	2774	2806	2838	2850	2781	2898	2911	2912	3011	2983
5	2973	2951	2942	2869	2880	2792	2742	2761	2799	2828	2776	2798	2863	2864	2981	2970	2973
6	2931	2945	2955	2858	2861	2839	2764	2747	2788	2815	2770	2826	2871	2822	3008	2959	2931
7	2914	2903	2938	2847	2853	2849	2786	2732	2657	2703	2764	2820	2914	2836	2941	2934	2914
8	2985	2915	2915	2822	2859	2813	2807	2679	2790	2704	2758	2815	2923	2883	2892	2943	2985
9	3170	3025	2883	2858	2882	2788	2773	2807	2771	2839	2705	2809	2907	2913	2885	3060	3170
10	2992	3157	2838	2960	2859	2824	2627	2782	2779	2804	2643	2798	2864	2947	2877	3191	2992
11	2906	2943	2879	2984	2836	2826	2683	2755	2748	2748	2765	2754	2892	2967	2912	2945	2906
12	2863	2889	3003	2886	2813	2778	2780	2733	2612	2743	2774	2727	2918	2955	3018	2884	2863
13	2930	2835	3066	2780	2820	2714	2811	2656	2586	2621	2781	2695	2878	2868	3056	2855	2930
14	3167	2898	2940	2740	2790	2690	2793	2603	2403	2531	2639	2633	2844	2764	2887	2891	3167
15	3078	3128	2785	2711	2749	2657	2626	2432	2520	2397	2563	2577	2775	2702	2731	3138	3078
16	3056	3114	2701	2675	2723	2590	2583	2474	2495	2472	2625	2487	2738	2652	2687	3132	3056
17	3013	3065	2683	2662	2698	2506	2598	2533	2388	2463	2566	2470	2777	2615	2713	3062	3013
18	3066	2998	2759	2638	2692	2481	2548	2385	2138	2363	2460	2538	2719	2641	2789	2991	3066
19	3243	2932	2934	2632	2640	2527	2420	2259	1899	2218	2359	2635	2580	2678	2937	2912	3243
20	3187	3104	2994	2663	2564	2574	2365	1953	2630	1972	2422	2627	2538	2646	2962	3073	3187
21	3079	3178	2917	2652	2533	2583	2463	2086	1943	2248	2367	2533	2553	2572	2838	3180	3079
22	3007	3109	2789	2574	2522	2569	2335	2452	1916	2287	2224	2457	2537	2530	2710	3107	3007
23	3100	3016	2702	2521	2495	2523	2205	1896	2072	1864	2155	2411	2472	2554	2682	3062	3100
24	3296	2993	2670	2528	2438	2458	2179	1926	1882	1996	2084	2385	2416	2563	2696	3036	3296
25	3160	3104	2750	2521	2384	2376	2008	1993	1833	1935	1875	2287	2403	2491	2785	3086	3160
26	3202	3203	2821	2474	2343	2329	1841	1834	1822	1803	1949	2195	2405	2413	2844	3208	3202
27	3151	3139	2797	2400	2321	2293	1975	1786	1845	1745	2098	2196	2351	2394	2771	3145	3151
28	3151	3089	2693	2345	2280	2242	2093	1730	1619	1719	1787	2187	2321	2382	2652	3082	3151
29	3359	3024	2613	2326	2259	2192	1759	1742	1573	1684	1661	2068	2276	2339	2587	3043	3359
30	3193	3025	2586	2311	2221	2151	1675	1611	1641	1557	1718	1989	2244	2320	2596	3016	3193
31	3162	3147	2653	2274	2229	2052	1749	1505	1470	1484	1712	1983	2218	2320	2632	3143	3162
32	3159	3147	2803	2224	2220	1962	1709	1494	1408	1501	1622	1987	2155	2251	2747	3161	3159
33	3181	3120	2754	2174	2199	1927	1589	1469	1360	1417	1548	2000	2123	2184	2710	3153	3181
34	3433	3049	2665	2171	2172	1976	1542	1342	1298	1316	1490	1951	2167	2142	2580	3061	3433
35	3351	3046	2578	2192	2198	1948	1498	1286	1218	1263	1447	1867	2082	2130	2527	3029	3351
36	3344	3191	2484	2197	2170	1885	1459	1240	1135	1204	1403	1790	2034	2161	2506	3124	3344
37	3274	3270	2465	2211	2125	1846	1416	1164	1063	1136	1357	1717	2049	2184	2493	3186	3274
38	3254	3302	2585	2209	2094	1773	1362	1098	980	1061	1293	1636	2065	2202	2603	3229	3254
39	3337	3201	2560	2206	2105	1692	1285	1026	915	998	1238	1541	2014	2248	2621	3191	3337
40	3278	3141	2455	2181	2096	1564	1239	966	847	932	1211	1558	1971	2268	2461	3128	3278
41	3396	3157	2423	2132	2048	1505	1208	898	785	862	1176	1633	1938	2182	2406	3131	3396
42	3271	3238	2456	2057	2043	1521	1174	834	741	803	1113	1552	1891	2098	2422	3235	3271
43	3302	3210	2539	1994	1982	1575	1110	776	694	746	1049	1401	1868	2031	2525	3207	3302
44	3284	3065	2619	1980	1951	1470	1047	721	650	693	1018	1361	1846	2010	2621	3108	3284
45	3292	2997	2536	1978	1917	1370	1014	672	600	652	981	1344	1775	1984	2585	3032	3292
46	3245	3032	2379	1996	1862	1336	966	634	544	613	936	1326	1778	1979	2410	3058	3245

47	3177	3075	2373	2106	1849	1316	923	594	490	573	886	1266	1751	2001	2376	3136	3177
48	3228	3024	2422	2203	1801	1285	877	556	431	528	831	1220	1710	2111	2395	3039	3228
49	3174	2973	2474	2109	1766	1224	832	508	390	491	787	1175	1721	2159	2434	2987	3174
50	3136	2967	2524	1946	1736	1178	786	473	356	448	741	1126	1651	2083	2529	2999	3136
51	3067	2991	2368	1901	1684	1140	741	436	323	412	696	1103	1653	1962	2449	3022	3067
52	2976	2942	2259	1878	1641	1096	701	401	296	383	656	1050	1621	1911	2283	2972	2976
53	2970	2824	2280	1872	1637	1057	650	374	273	356	619	1004	1590	1857	2256	2835	2970
54	2994	2737	2310	1892	1595	1012	609	346	253	328	573	956	1569	1843	2248	2764	2994
55	3042	2704	2356	1933	1573	975	566	321	231	305	534	918	1532	1885	2319	2742	3042
56	2967	2681	2338	1899	1541	919	529	298	210	285	501	872	1489	1915	2339	2733	2967
57	2910	2718	2268	1858	1492	878	494	279	190	267	464	839	1446	1869	2251	2712	2910
58	2937	2644	2198	1803	1469	832	460	259	173	248	436	775	1415	1818	2166	2654	2937
59	2886	2622	2155	1727	1425	780	430	241	158	230	402	726	1393	1719	2135	2628	2886
60	2790	2639	2130	1725	1395	740	398	224	144	213	373	677	1351	1719	2138	2650	2790
61	2793	2569	2060	1723	1369	693	370	208	131	199	351	630	1305	1751	2116	2545	2793
62	2781	2508	2032	1697	1334	632	350	194	119	186	334	586	1284	1727	2046	2488	2781
63	2718	2567	1957	1656	1292	587	333	183	108	175	320	546	1240	1650	1959	2515	2718
64	2716	2513	1908	1621	1252	536	318	172	97	164	303	501	1214	1596	1919	2449	2716
65	2827	2486	1896	1617	1195	496	303	161	88	154	289	458	1160	1581	1915	2439	2827
66	2706	2526	1814	1602	1139	453	289	152	84	147	275	422	1103	1575	1832	2477	2706
67	2597	2530	1749	1577	1095	419	275	144	81	140	262	392	1055	1558	1782	2464	2597
68	2720	2388	1767	1530	1041	385	261	137	77	134	251	365	996	1517	1774	2339	2720
69	2440	2363	1741	1473	984	355	249	131	73	128	238	340	931	1476	1740	2313	2440
70	1976	2297	1726	1416	918	332	237	125	69	122	227	320	867	1435	1714	2216	1976
71	2069	2012	1726	1375	856	313	225	119	65	115	215	304	794	1372	1689	1952	2069
72	2741	1852	1646	1347	787	299	213	112	62	108	203	291	714	1333	1630	1877	2741
73	2640	2127	1580	1295	717	287	200	106	58	101	189	278	651	1280	1589	2187	2640
74	2273	2334	1550	1244	650	275	187	99	55	93	178	267	590	1236	1516	2259	2273
75	2233	2138	1500	1187	581	265	175	91	51	86	166	254	519	1188	1424	2053	2233
76	2203	1962	1449	1178	522	253	163	84	47	79	155	242	452	1164	1332	1924	2203
77	2029	1908	1399	1106	460	240	153	76	43	72	145	230	396	1116	1426	1865	2029
78	2013	1821	1499	1080	402	227	146	69	39	65	135	218	350	1061	1442	1769	2013
79	2009	1731	1409	1040	354	215	135	62	36	59	126	206	311	999	1342	1693	2009
80	1872	1690	1302	972	314	204	127	56	33	53	117	192	275	943	1265	1656	1872
81	1873	1631	1253	921	279	191	117	49	30	46	108	180	244	865	1215	1592	1873
82	1837	1557	1184	830	251	179	109	43	27	40	99	168	220	796	1159	1539	1837
83	1764	1515	1142	784	225	168	99	38	24	35	90	158	197	774	1116	1487	1764
84	1757	1474	1109	790	201	158	90	32	21	30	82	149	179	738	1071	1435	1757
85	1648	1433	1061	742	181	148	82	27	18	25	73	139	163	681	1027	1388	1648
86	1574	1379	1016	676	165	139	74	22	15	20	65	131	151	614	996	1325	1574
87	1506	1288	973	614	150	131	66	17	13	15	57	123	140	561	944	1242	1506
88	1439	1225	921	556	138	122	59	12	9	10	49	116	133	515	897	1189	1439
89	1371	1163	891	510	129	114	49	7	5	4	41	109	128	467	859	1125	1371
90	1305	1099	838	464	124	107	42	4	4	4	37	102	125	426	805	1070	1305
91	1238	1043	791	424	120	100	38	4	5	4	35	94	122	393	756	1013	1238
92	1168	988	745	389	117	93	36	4	5	4	33	88	118	354	711	961	1168
93	1123	930	695	350	113	89	33	4	5	4	31	83	113	328	666	900	1123
94	1059	870	650	320	110	84	31	4	5	4	29	79	107	298	621	849	1059
95	994	822	610	289	105	80	29	4	5	4	27	76	102	270	581	798	994

96	884	773	563	262	100	77	27	5	5	4	25	72	97	246	536	748	884
97	836	720	522	241	96	73	25	5	5	5	24	69	92	228	499	691	836
98	755	651	490	221	93	70	23	5	5	5	22	66	88	212	463	634	755
99	688	620	448	206	89	67	22	5	5	5	21	63	85	197	426	594	688
100	623	562	401	191	87	64	21	5	6	5	20	60	82	184	386	540	623
101	566	517	371	179	83	60	19	5	6	5	19	57	80	172	354	498	566
102	504	474	340	168	81	57	18	5	6	5	17	55	78	162	323	456	504
103	450	433	308	158	78	54	16	5	6	5	16	52	76	151	292	416	450
104	398	393	279	147	75	51	15	5	6	5	15	49	74	141	266	377	398
105	349	358	254	138	72	49	14	5	6	5	14	46	71	132	243	346	349
106	305	325	231	129	69	46	13	5	6	5	13	43	70	124	223	315	305
107	258	295	212	121	65	43	12	5	6	6	12	40	67	117	206	288	258
108	217	269	198	114	63	40	11	5	6	6	11	38	65	110	191	263	217
109	187	246	183	107	61	38	10	5	6	6	10	36	62	104	179	242	187
110	168	226	171	100	59	36	9	5	6	6	9	34	60	99	168	225	168
111	156	211	161	95	57	33	9	6	7	6	9	32	57	92	159	209	156
112	145	197	152	89	55	31	8	6	7	6	8	30	56	87	151	198	145
113	134	189	145	84	53	29	8	6	7	6	7	28	54	81	144	191	134
114	132	183	139	79	52	27	7	6	7	6	7	26	52	77	139	185	132
115	133	178	134	75	50	26	7	6	7	6	6	24	51	72	135	180	133
116	135	173	131	71	48	24	6	6	7	6	6	23	49	69	132	176	135
117	137	169	128	67	46	23	6	6	7	6	6	21	47	66	130	172	137
118	138	166	125	64	45	21	6	6	7	6	5	20	46	62	126	169	138
119	138	163	123	60	43	20	5	6	7	6	5	18	44	60	123	166	138
120	136	160	119	57	41	18	5	6	7	6	5	17	42	56	119	162	136
121	135	157	115	53	39	17	5	6	7	6	5	16	40	53	115	160	135
122	132	154	111	50	38	16	5	6	7	6	5	15	38	49	111	157	132
123	130	150	106	46	36	15	5	6	7	6	5	14	36	46	106	154	130
124	128	147	102	44	34	14	5	6	7	6	5	13	34	44	101	151	128
125	125	143	96	41	32	13	4	6	7	6	5	12	32	42	96	148	125
126	121	140	92	38	30	12	4	6	7	6	5	11	30	40	91	144	121
127	116	136	86	36	28	11	4	6	7	6	5	11	28	38	86	140	116
128	112	131	81	34	26	10	4	6	7	6	5	10	26	36	80	135	112
129	107	126	75	32	24	9	4	6	7	6	5	9	24	33	74	130	107
130	102	119	69	30	22	9	5	6	7	6	5	9	23	31	68	124	102
131	97	113	63	28	21	8	5	6	7	6	5	8	21	29	62	118	97
132	92	106	57	26	19	8	5	6	6	6	5	8	20	27	55	111	92
133	87	98	50	24	18	7	5	6	6	6	5	7	19	26	49	103	87
134	82	91	44	23	16	7	5	6	6	6	5	7	17	24	43	96	82
135	76	83	38	21	15	6	5	6	6	6	5	6	16	22	37	87	76
136	71	75	32	20	14	6	5	6	6	6	5	6	15	21	31	79	71
137	66	67	26	19	13	6	5	6	6	6	5	5	14	19	25	71	66
138	60	60	21	17	12	5	5	6	6	6	5	5	13	18	20	63	60
139	55	52	16	15	11	5	5	6	6	6	5	5	12	16	15	55	55
140	49	45	12	14	10	5	5	6	6	6	5	5	11	15	12	47	49
141	43	37	11	13	9	5	5	6	7	6	6	5	10	13	11	39	43
142	37	31	10	12	9	5	5	6	7	6	6	5	9	12	10	32	37
143	31	24	9	11	8	5	5	6	7	6	6	5	8	11	9	25	31
144	26	18	8	10	7	5	6	6	7	6	6	5	8	10	8	19	26

145	21	13	7	9	7	5	6	6	7	6	6	5	7	9	7	14	21
146	16	9	7	8	6	5	6	6	7	6	6	5	7	8	7	9	16
147	12	5	6	8	6	5	6	6	7	7	6	6	7	8	6	5	12
148	8	4	6	7	6	5	6	7	7	7	6	6	6	7	6	4	8
149	5	4	6	7	6	6	6	7	7	7	7	6	6	7	6	4	5
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152	4	5	5	6	6	6	6	6	7	7	6	6	6	6	5	5	4
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154	4	5	5	6	6	6	6	6	7	6	6	6	6	6	5	5	4
155	4	5	5	6	6	6	6	6	6	6	6	6	6	6	5	5	4
156	4	5	6	6	6	6	6	6	6	6	6	6	6	6	5	5	4
157	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4
158	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
159	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
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161	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
162	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
163	5	6	6	6	6	6	6	6	6	6	6	6	7	6	6	6	5
164	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
165	6	6	6	6	6	6	6	6	6	6	6	6	7	7	6	7	6
166	6	6	7	7	6	6	6	6	6	6	6	6	7	7	7	7	6
167	6	7	7	7	7	7	7	7	6	6	6	7	7	7	7	7	6
168	6	7	7	7	7	7	7	7	7	7	7	8	7	7	7	7	6
169	6	7	7	8	8	8	8	8	7	7	8	8	8	7	7	7	6
170	6	7	7	8	8	8	8	8	8	7	8	8	8	8	8	7	6
171	6	7	8	8	8	8	8	9	8	8	8	9	8	8	8	7	6
172	7	7	8	8	8	8	9	9	8	8	8	9	8	8	8	8	7
173	7	7	8	8	8	8	9	9	8	8	8	9	8	8	8	8	7
174	7	8	8	8	8	8	9	9	8	8	8	9	8	8	8	8	7
175	7	8	8	9	8	8	9	9	8	8	8	9	8	9	9	8	7
176	7	8	9	9	8	8	9	9	8	8	8	9	9	9	9	8	7
177	7	8	9	9	8	8	9	9	8	8	8	9	8	9	9	8	7
178	7	8	9	9	8	8	9	9	8	7	8	9	9	9	9	8	7
179	7	8	9	9	8	8	9	9	8	7	8	9	8	9	9	8	7
180	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2017-12-01  
[TESTLAB] Standard-Tech Co. Ltd  
[ISSUEDATE] 2017-12-01  
[MANUFAC] SARIN Energy Inc  
[LUMINAIRE] SES-SWP-XXXX-80-277V  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 9526.5  
[OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 273.22  
273.22 2.87 2.8710- 20 771.23 1044.46 10.96 10.9620- 30 1126.12 2170.58 22.79  
22.7930- 40 1327.18 3497.76 36.72 36.7240- 50 1397.16 4894.91 51.39 51.3950- 60  
1330.67 6225.58 65.36 65.3660- 70 1172.17 7397.75 77.66 77.6670- 80 910.17 8307.92  
87.22 87.2280- 90 597.77 8905.69 93.49 93.4990-100 328.54 9234.23 96.94 96.94100-  
110 144.05 9378.28 98.45 98.45110-120 69.36 9447.64 99.18 99.18120-130 45.16  
9492.80 99.66 99.66130-140 21.47 9514.27 99.88 99.88140-150 5.94 9520.21 99.94  
99.94150-160 2.66 9522.88 99.97 99.97160-170 1.81 9524.69 99.99 99.99170-180 0.77  
9525.45 100.00 100.00

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.