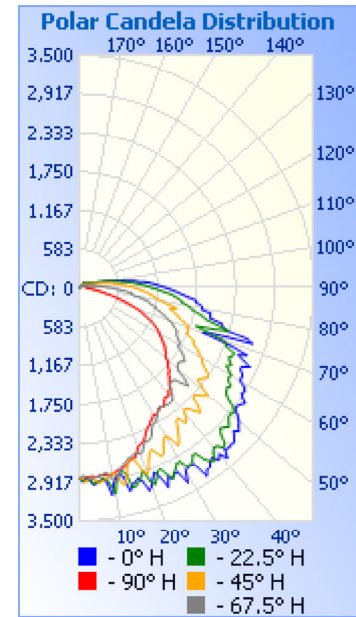


Photometrics Pro

Luminaire Photometric Report

Filename: Wall Pack SWP 80W - 120V
Manufacturer: SARIN Energy Inc
Luminaire: SES-SWP-XXXX-80
Lamp Output: Total luminaire Lumens: 9487.3
Max Candela: 3,416.3 at Horizontal: 0°, Vertical: 34°
Input Wattage: 77.1
Luminous Opening: Point
Test Date: 2017-12-01
Test Lab: Standard-Tech Co. Ltd
Photometry : Type C
Nema Type: 7 X 7

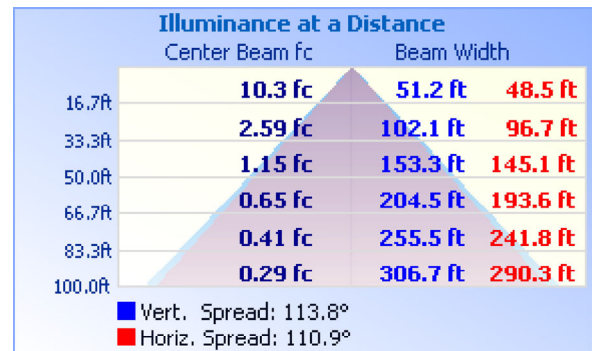
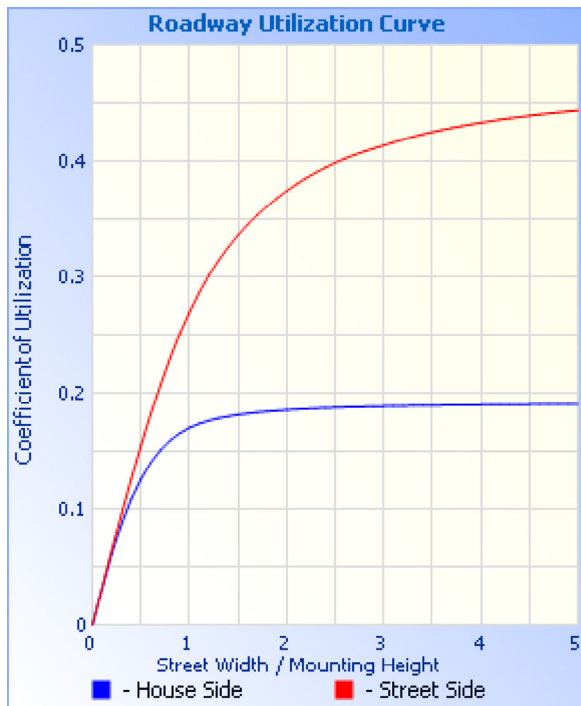
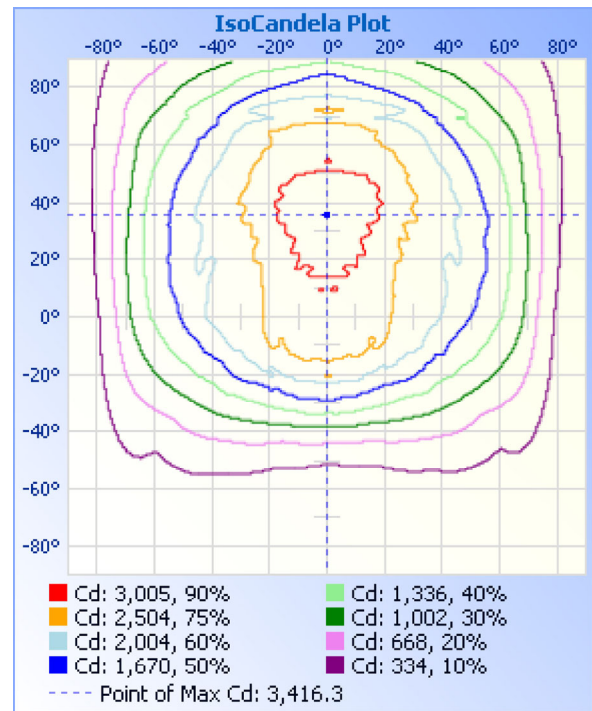
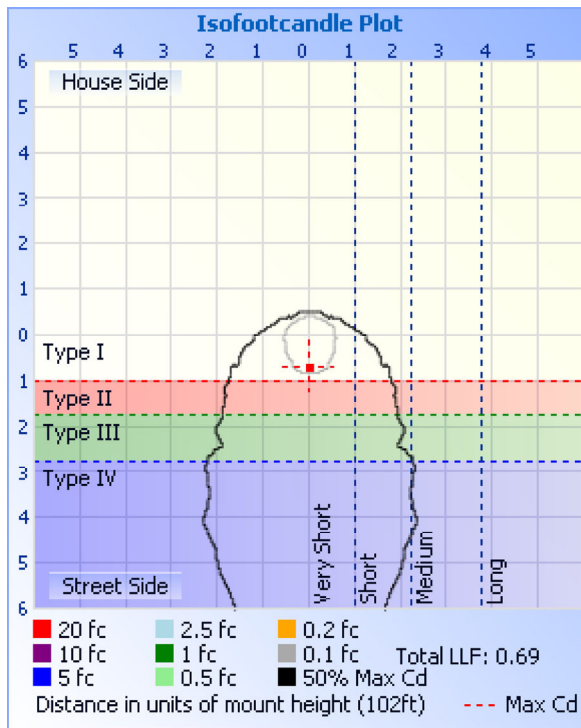


Roadway Summary		
Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	1,299.5	
Max Cd, 80 to <90 Deg:	1,867.4	
	Lumens	% Lamp
Downward Street Side:	6,341.8	66.8%
Downward House Side:	2,528.4	26.7%
Downward Total:	8,870.2	93.5%
Upward Street Side:	560.5	5.9%
Upward House Side:	57.0	0.6%
Upward Total:	617.5	6.5%
Total Lumens:	9,487.7	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	8,985.2	163	156
Beam (50%):	67.7%	6,425.1	110.9	113.8
Total:	100%	9,486.9		

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	2,161.2	22.8%
0-40	3,482.5	36.7%
0-60	6,198.6	65.3%
60-90	2,671.1	28.2%
70-100	1,830.6	19.3%
90-120	540.1	5.7%
0-90	8,869.7	93.5%
90-180	617.7	6.5%
0-180	9,487.3	100%

Lumens Per Zone					
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	271.8	2.9%	90-100	327.5	3.5%
10-20	767.9	8.1%	100-110	143.5	1.5%
20-30	1,121.4	11.8%	110-120	69.0	0.7%
30-40	1,321.3	13.9%	120-130	45.0	0.5%
40-50	1,391.2	14.7%	130-140	21.4	0.2%
50-60	1,325.0	14.0%	140-150	5.9	0.1%
60-70	1,168.0	12.3%	150-160	2.7	0%
70-80	907.1	9.6%	160-170	1.8	0%
80-90	596.0	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	.38	.32	.59	.46	.38	.29	.44	.37	.31	.42	.35	.30	.40	.34	.30	.28
8	.57	.43	.35	.29	.55	.42	.34	.26	.40	.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	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871	2871
1	2917	2910	2871	2832	2872	2926	2927	2880	2855	2857	2885	2897	2855	2835	2881	2905	2917
2	2870	2901	2930	2854	2851	2918	2804	2805	2814	2803	2778	2856	2869	2906	2931	2887	2870
3	2894	2879	2867	2886	2848	2847	2831	2866	2804	2832	2838	2782	2873	2924	2882	2893	2894
4	2974	2964	2880	2873	2844	2795	2855	2766	2797	2752	2838	2769	2884	2899	2898	2997	2974
5	2959	2938	2930	2857	2868	2783	2732	2751	2789	2851	2760	2786	2850	2853	2969	2959	2959
6	2919	2934	2943	2847	2848	2788	2752	2736	2778	2813	2755	2813	2859	2811	2998	2946	2919
7	2901	2889	2927	2834	2842	2793	2772	2720	2646	2693	2751	2808	2902	2825	2931	2922	2901
8	2971	2902	2903	2809	2847	2797	2791	2668	2776	2692	2745	2802	2911	2871	2882	2929	2971
9	3156	3013	2871	2845	2869	2775	2761	2795	2757	2707	2692	2797	2892	2901	2873	3047	3156
10	2980	3142	2826	2946	2847	2814	2614	2771	2765	2721	2630	2786	2852	2936	2865	3176	2980
11	2895	2931	2868	2971	2824	2815	2672	2743	2733	2736	2753	2741	2879	2955	2899	2931	2895
12	2853	2877	2989	2876	2803	2767	2767	2720	2600	2730	2763	2714	2905	2945	3006	2875	2853
13	2921	2825	3051	2770	2809	2703	2799	2644	2574	2609	2767	2683	2864	2856	3044	2843	2921
14	3152	2886	2930	2729	2780	2679	2781	2591	2396	2519	2628	2621	2830	2755	2876	2880	3152
15	3066	3113	2775	2698	2738	2647	2614	2418	2517	2385	2550	2565	2762	2692	2721	3122	3066
16	3044	3101	2690	2663	2712	2579	2571	2462	2483	2460	2612	2476	2725	2641	2676	3119	3044
17	3001	3052	2672	2651	2686	2497	2586	2522	2374	2452	2555	2460	2767	2605	2702	3049	3001
18	3056	2986	2748	2628	2681	2472	2535	2373	2131	2351	2450	2526	2706	2632	2779	2979	3056
19	3229	2920	2920	2622	2630	2517	2410	2246	1901	2207	2349	2623	2570	2669	2925	2901	3229
20	3176	3093	2980	2652	2554	2565	2354	1939	2645	1958	2415	2616	2527	2636	2949	3061	3176
21	3069	3168	2905	2641	2522	2573	2452	2079	1932	2235	2355	2521	2542	2562	2827	3170	3069
22	2996	3097	2779	2564	2511	2559	2325	2437	1906	2277	2213	2445	2526	2521	2700	3096	2996
23	3089	3005	2692	2511	2484	2513	2195	1882	2060	1851	2146	2399	2461	2544	2673	3050	3089
24	3281	2982	2658	2518	2428	2447	2167	1917	1873	1986	2074	2374	2406	2552	2686	3024	3281
25	3149	3091	2738	2510	2374	2366	1995	1985	1821	1925	1868	2279	2393	2481	2775	3074	3149
26	3189	3195	2811	2466	2333	2321	1835	1823	1813	1795	1942	2184	2395	2403	2835	3199	3189
27	3138	3127	2785	2391	2312	2283	1962	1778	1835	1737	2085	2186	2340	2385	2760	3133	3138
28	3141	3076	2682	2336	2271	2232	2084	1723	1613	1710	1779	2176	2311	2372	2641	3070	3141
29	3352	3011	2602	2316	2249	2182	1756	1733	1566	1675	1654	2060	2266	2329	2577	3031	3352
30	3184	3013	2574	2302	2212	2141	1666	1605	1635	1550	1709	1981	2235	2312	2584	3005	3184
31	3151	3133	2641	2265	2221	2044	1741	1496	1461	1476	1704	1975	2207	2310	2622	3129	3151
32	3147	3135	2792	2216	2210	1954	1701	1487	1401	1493	1616	1978	2146	2241	2735	3148	3147
33	3161	3110	2744	2166	2190	1919	1581	1461	1354	1410	1542	1993	2112	2175	2702	3143	3161
34	3416	3036	2652	2163	2163	1968	1534	1336	1291	1310	1484	1942	2157	2133	2569	3049	3416
35	3339	3034	2568	2182	2187	1940	1491	1280	1212	1257	1440	1859	2073	2122	2516	3017	3339
36	3330	3178	2473	2188	2161	1877	1452	1234	1130	1197	1396	1783	2026	2152	2496	3112	3330
37	3261	3257	2455	2200	2117	1838	1410	1158	1058	1131	1350	1709	2041	2175	2484	3173	3261
38	3234	3290	2574	2200	2084	1765	1355	1091	974	1055	1286	1629	2055	2193	2590	3217	3234
39	3322	3189	2548	2197	2096	1685	1279	1022	911	994	1232	1534	2005	2239	2608	3178	3322
40	3264	3129	2447	2173	2087	1558	1233	961	842	927	1205	1553	1962	2259	2453	3115	3264
41	3381	3146	2412	2124	2038	1498	1203	893	781	857	1171	1629	1929	2174	2397	3119	3381
42	3259	3224	2445	2050	2035	1514	1169	830	738	799	1108	1545	1882	2090	2413	3223	3259
43	3286	3200	2530	1986	1974	1570	1104	772	690	741	1045	1394	1861	2023	2513	3196	3286
44	3270	3054	2607	1972	1943	1463	1042	718	647	690	1013	1355	1836	2002	2610	3095	3270
45	3280	2986	2525	1971	1909	1364	1009	669	597	648	976	1338	1768	1976	2574	3020	3280
46	3230	3019	2370	1989	1854	1330	962	631	541	610	932	1320	1770	1972	2401	3047	3230

47	3160	3065	2363	2096	1842	1310	919	592	487	570	882	1260	1743	1995	2364	3124	3160
48	3220	3013	2412	2197	1794	1279	873	553	428	524	827	1214	1702	2103	2386	3028	3220
49	3161	2963	2464	2100	1758	1218	828	505	388	488	783	1170	1714	2150	2424	2975	3161
50	3123	2954	2514	1937	1729	1173	782	471	354	446	737	1121	1643	2077	2519	2988	3123
51	3055	2980	2358	1893	1676	1135	736	434	322	410	693	1099	1646	1954	2437	3009	3055
52	2965	2929	2250	1871	1634	1091	698	399	295	381	653	1045	1615	1905	2276	2963	2965
53	2957	2812	2270	1864	1630	1053	647	372	272	355	616	1000	1582	1851	2247	2825	2957
54	2984	2727	2300	1883	1589	1008	606	345	251	327	571	952	1562	1836	2239	2754	2984
55	3030	2693	2345	1925	1566	971	564	319	230	304	532	914	1525	1877	2309	2732	3030
56	2956	2671	2328	1891	1535	916	526	297	209	284	498	867	1482	1907	2328	2722	2956
57	2899	2706	2258	1851	1488	874	492	277	189	265	462	835	1439	1862	2243	2702	2899
58	2925	2634	2188	1795	1463	828	458	258	172	247	434	772	1408	1811	2159	2645	2925
59	2876	2612	2146	1721	1419	777	428	240	157	229	400	723	1387	1710	2127	2617	2876
60	2778	2628	2123	1717	1389	737	397	222	143	212	371	673	1344	1712	2128	2640	2778
61	2781	2561	2052	1717	1364	691	368	207	131	198	350	628	1299	1743	2108	2537	2781
62	2770	2498	2024	1689	1328	629	348	194	119	185	333	584	1279	1719	2039	2479	2770
63	2708	2555	1948	1649	1285	584	331	182	107	174	318	544	1235	1646	1952	2505	2708
64	2706	2503	1900	1615	1246	534	316	171	97	163	302	499	1209	1591	1912	2439	2706
65	2819	2476	1888	1611	1191	493	302	161	88	153	288	456	1155	1575	1908	2429	2819
66	2697	2516	1806	1596	1135	451	287	151	84	146	274	420	1098	1568	1825	2468	2697
67	2589	2519	1741	1570	1091	417	274	143	80	139	261	391	1050	1553	1775	2456	2589
68	2709	2380	1760	1523	1037	384	260	136	77	133	249	364	991	1512	1767	2329	2709
69	2432	2354	1734	1491	980	354	247	130	73	127	237	339	927	1471	1733	2305	2432
70	1972	2288	1718	1441	914	331	236	125	69	121	225	319	863	1430	1707	2213	1972
71	2046	2004	1719	1391	852	311	224	118	65	115	214	302	789	1367	1682	1945	2046
72	2727	1840	1641	1342	782	298	212	112	61	108	202	290	710	1327	1622	1876	2727
73	2631	2114	1574	1290	714	286	199	106	58	101	188	277	648	1275	1582	2175	2631
74	2270	2322	1544	1239	648	274	186	98	54	93	177	265	588	1232	1508	2253	2270
75	2226	2134	1492	1182	580	264	174	91	50	86	165	253	516	1183	1417	2047	2226
76	2194	1956	1441	1173	520	252	163	83	46	79	154	241	450	1159	1325	1917	2194
77	2020	1901	1389	1101	459	239	152	76	43	71	144	229	395	1112	1421	1858	2020
78	2005	1813	1491	1075	401	227	143	69	39	65	134	217	349	1057	1436	1763	2005
79	2002	1723	1403	1036	353	214	134	62	36	58	126	205	310	995	1337	1687	2002
80	1867	1684	1297	968	313	203	126	55	33	52	117	191	273	939	1261	1649	1867
81	1867	1624	1248	917	278	190	117	49	30	46	105	179	243	862	1210	1587	1867
82	1832	1550	1179	827	250	178	108	43	27	40	98	168	219	792	1156	1523	1832
83	1759	1530	1137	781	224	168	99	38	24	35	90	157	196	770	1112	1476	1759
84	1751	1478	1104	788	200	157	90	32	21	30	81	148	178	736	1067	1429	1751
85	1643	1426	1056	739	181	148	82	27	18	25	73	138	162	678	1023	1383	1643
86	1568	1373	1012	673	164	139	73	22	16	20	65	130	150	612	991	1320	1568
87	1495	1282	969	612	149	130	66	17	12	15	57	122	140	558	941	1237	1495
88	1430	1220	917	554	137	122	58	12	9	9	48	115	132	514	893	1185	1430
89	1365	1158	887	508	128	114	49	7	5	4	40	108	128	465	856	1120	1365
90	1300	1095	835	462	124	106	42	4	5	4	37	101	125	424	801	1065	1300
91	1232	1039	788	422	119	100	38	4	5	4	35	94	121	391	753	1009	1232
92	1162	984	742	388	116	93	36	4	5	4	32	87	117	353	708	957	1162
93	1118	926	692	349	113	88	33	4	5	4	30	83	112	326	664	896	1118
94	1055	866	647	319	109	84	31	4	5	4	29	79	107	296	618	846	1055
95	990	819	607	287	105	80	29	4	5	4	27	75	101	270	580	794	990

96	881	769	561	261	100	76	27	5	5	5	25	72	96	245	534	745	881
97	834	716	519	240	96	73	25	5	5	4	23	69	92	227	497	688	834
98	752	648	488	220	92	70	23	5	5	5	22	66	88	211	462	632	752
99	685	616	446	205	89	66	22	5	5	5	21	63	84	196	424	591	685
100	621	560	400	191	86	63	20	5	6	5	20	60	82	183	384	537	621
101	563	514	370	178	83	60	19	5	6	5	18	57	79	171	352	496	563
102	502	473	339	167	80	57	18	5	6	5	17	54	77	161	321	454	502
103	448	431	307	157	78	54	17	5	6	5	16	51	75	150	291	414	448
104	396	391	278	146	75	51	15	5	6	5	15	48	73	140	264	375	396
105	348	357	253	138	72	48	14	5	6	5	14	45	71	132	242	344	348
106	304	324	230	128	68	46	13	5	6	5	13	42	69	124	221	314	304
107	257	294	211	120	65	43	12	5	6	6	12	40	67	116	204	286	257
108	216	268	196	113	62	40	11	6	6	6	11	38	64	110	190	262	216
109	186	245	182	106	60	38	10	6	6	6	10	36	62	104	178	241	186
110	167	225	170	100	59	36	9	6	6	6	9	33	59	98	167	224	167
111	155	210	160	94	57	33	9	6	7	6	9	31	57	92	158	209	155
112	144	196	151	89	54	31	8	6	7	6	8	30	56	86	150	197	144
113	133	188	144	84	53	29	8	6	7	6	7	28	54	81	143	189	133
114	132	181	138	79	51	27	7	6	7	6	7	26	52	76	138	184	132
115	132	177	133	75	50	26	7	6	7	6	6	24	50	72	134	179	132
116	134	172	130	71	48	24	6	6	7	6	6	23	49	69	131	175	134
117	137	168	127	67	46	22	6	6	7	6	6	21	47	65	129	171	137
118	138	165	124	63	44	21	6	6	7	6	5	20	45	62	125	168	138
119	137	161	122	60	43	19	5	6	7	6	5	18	44	59	122	164	137
120	136	159	118	56	41	18	5	6	7	6	5	17	42	56	119	161	136
121	134	156	114	53	39	16	5	6	7	6	5	16	40	53	114	159	134
122	132	153	110	50	37	15	5	6	7	6	5	15	38	49	110	156	132
123	130	150	106	46	35	15	5	6	7	6	5	14	36	46	106	153	130
124	127	146	101	44	33	14	5	6	7	6	5	13	34	43	100	150	127
125	124	142	96	41	32	13	5	6	7	6	5	12	32	41	95	147	124
126	120	139	91	38	29	12	5	6	7	6	5	11	30	40	90	143	120
127	116	135	86	36	28	11	5	6	7	6	5	10	28	37	85	139	116
128	111	131	80	34	26	10	5	6	7	6	5	10	26	35	80	135	111
129	106	125	74	32	24	9	5	6	7	6	5	9	24	33	74	130	106
130	102	119	68	30	22	9	5	6	7	6	5	9	23	31	68	124	102
131	97	112	62	28	20	8	5	6	7	6	5	8	21	29	61	117	97
132	92	105	57	26	19	8	5	6	7	6	5	8	20	27	55	110	92
133	87	98	50	24	18	7	5	6	7	6	5	7	18	25	49	103	87
134	82	90	44	22	16	7	5	6	7	6	5	7	17	24	43	95	82
135	76	82	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	70	66
138	60	59	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	54	55
140	49	45	12	14	10	5	5	6	6	6	6	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	30	10	12	9	5	5	6	7	6	6	5	9	12	10	32	37
143	31	24	9	11	8	5	6	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	14	7	9	6	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	6	6	6	7	8	6	5	12
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154	4	5	5	6	6	6	6	6	6	6	6	6	6	6	5	5	4
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158	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5
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174	7	7	8	8	8	8	9	9	8	8	8	9	8	9	9	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	8	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	8	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
[ISSUE DATE] 2017-12-01
[MANUFAC] SARIN Energy Inc
[LUMINAIRE] SES-SWP-XXXX-80
[_LAMPPOSITION] 0,0
[_TOTALLUMINAIRELUMENS] 9487.3
[OTHER] EVERFINE GO-R5000_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 271.82
271.82 2.87 2.8710- 20 767.97 1039.79 10.96 10.9620- 30 1121.42 2161.21 22.78
22.7830- 40 1321.50 3482.71 36.71 36.7140- 50 1391.40 4874.10 51.38 51.3850- 60
1325.21 6199.31 65.35 65.3560- 70 1167.79 7367.10 77.66 77.6670- 80 906.56 8273.66
87.22 87.2280- 90 595.38 8869.05 93.49 93.4990-100 327.12 9196.17 96.94 96.94100-
110 143.39 9339.56 98.46 98.46110-120 69.00 9408.56 99.18 99.18120-130 44.95
9453.51 99.66 99.66130-140 21.40 9474.91 99.88 99.88140-150 5.94 9480.85 99.94
99.94150-160 2.68 9483.54 99.97 99.97160-170 1.82 9485.35 99.99 99.99170-180 0.77
9486.12 100.00 100.00

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.