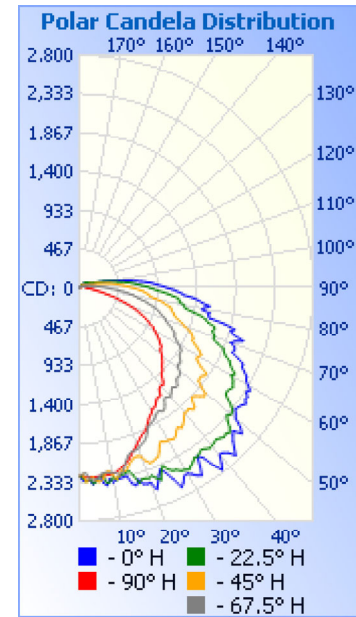


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Wall Pack SWP 55W - 120V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SWP-XXXX-55  
**Lamp:**  
**Lamp Output:** Total luminaire Lumens: 7588.5  
**Max Candela:** 2,782.5 at Horizontal: 0°, Vertical: 38°  
**Input Wattage:** 56.7  
**Luminous Opening:** Point  
**Test Date:** 2017-12-04  
**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:	1,050.3	
Max Cd, 80 to <90 Deg:	1,575.6	
	Lumens	% Lamp
Downward Street Side:	5,083.2	67%
Downward House Side:	2,018.4	26.6%
Downward Total:	7,101.7	93.6%
Upward Street Side:	445.3	5.9%
Upward House Side:	41.9	0.6%
Upward Total:	487.2	6.4%
<b>Total Lumens:</b>	<b>7,588.8</b>	<b>100%</b>

### Flood Summary

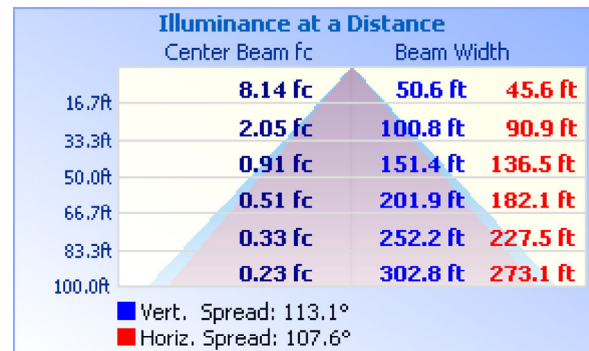
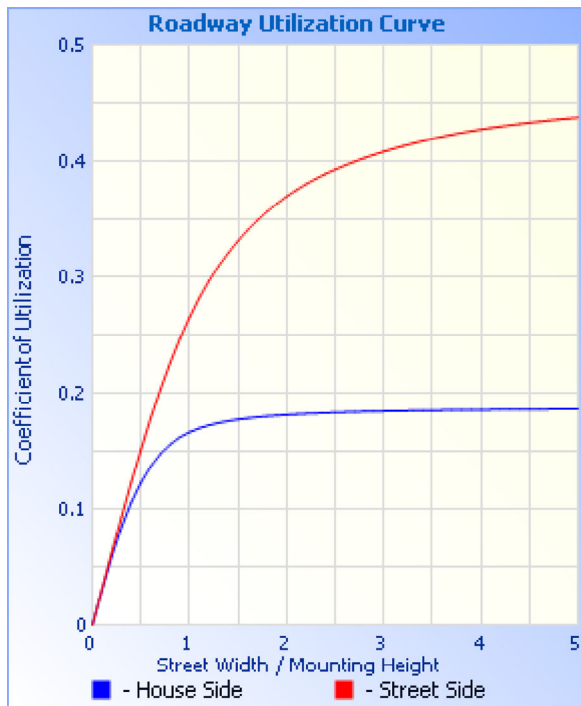
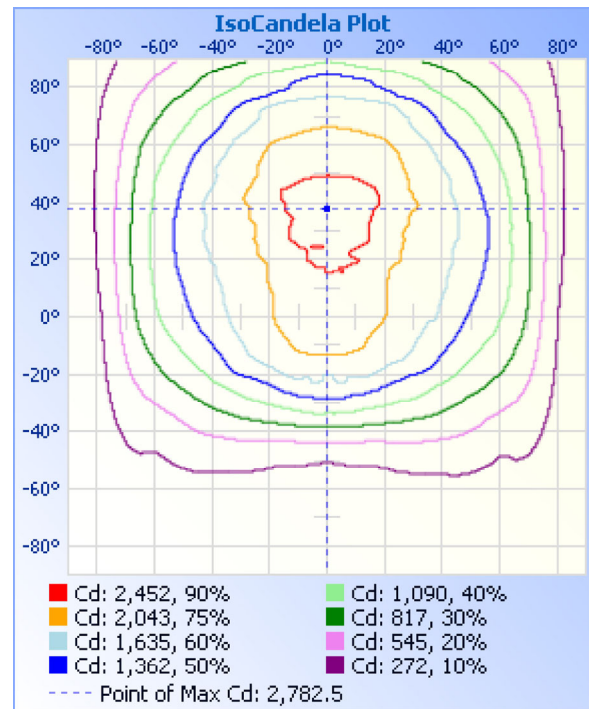
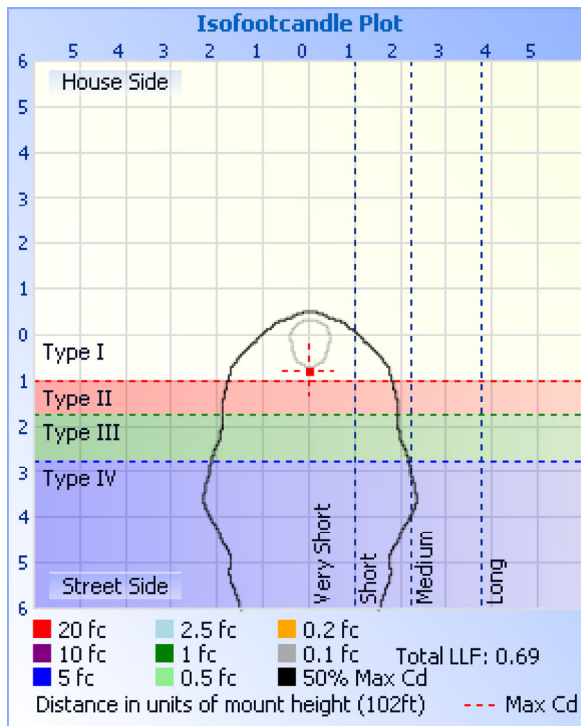
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.9%	7,197.8	163.3	155.6
Beam (50%):	66.5%	5,046.1	107.6	113.1
<b>Total:</b>	<b>100%</b>	<b>7,589.0</b>		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,713.7	22.6%
0-40	2,769.9	36.5%
0-60	4,946.8	65.2%
60-90	2,154.4	28.4%
70-100	1,480.1	19.5%
90-120	430.7	5.7%
0-90	7,101.2	93.6%
90-180	487.3	6.4%
0-180	7,588.5	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	215.3	2.8%	90-100	263.7	3.5%
10-20	606.6	8.0%	100-110	114.6	1.5%
20-30	891.9	11.8%	110-120	52.4	0.7%
30-40	1,056.2	13.9%	120-130	33.4	0.4%
40-50	1,113.0	14.7%	130-140	15.3	0.2%
50-60	1,063.9	14.0%	140-150	4.1	0.1%
60-70	938.0	12.4%	150-160	1.9	0%
70-80	734.0	9.7%	160-170	1.3	0%
80-90	482.4	6.4%	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	1.18	1.18	1.18	1.18	1.14	1.14	1.14	.94	1.08	1.08	1.08	1.02	1.02	1.02	.96	.96	.96	.94
1	1.05	.99	.94	.89	1.01	.96	.91	.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	.59
3	.86	.74	.65	.58	.83	.72	.64	.51	.68	.61	.55	.64	.59	.54	.61	.56	.52	.49

4	.78	.65	.56	.49	.75	.64	.55	.43	.60	.53	.47	.57	.51	.45	.54	.49	.44	.42
5	.72	.58	.49	.42	.69	.57	.48	.38	.54	.46	.40	.51	.44	.39	.49	.43	.38	.36
6	.66	.52	.43	.36	.64	.51	.42	.33	.49	.41	.35	.46	.39	.34	.44	.38	.33	.31
7	.61	.47	.38	.32	.59	.46	.38	.29	.44	.37	.31	.42	.35	.30	.40	.34	.30	.27
8	.57	.43	.34	.28	.55	.42	.34	.26	.40	.33	.28	.39	.32	.27	.37	.31	.26	.24
9	.53	.40	.31	.26	.52	.39	.31	.24	.37	.30	.25	.36	.29	.24	.34	.28	.24	.22
10	.50	.37	.29	.23	.48	.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	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271
1	2321	2292	2246	2240	2281	2303	2283	2245	2232	2231	2256	2289	2276	2242	2276	2312	2321
2	2327	2337	2343	2238	2285	2277	2208	2213	2221	2207	2197	2244	2276	2291	2354	2339	2327
3	2323	2298	2311	2295	2281	2219	2221	2244	2252	2237	2207	2196	2271	2341	2315	2313	2323
4	2377	2366	2283	2323	2280	2197	2244	2237	2223	2225	2234	2191	2271	2339	2319	2375	2377
5	2320	2343	2336	2316	2284	2204	2244	2225	2209	2210	2239	2197	2269	2313	2362	2339	2320
6	2286	2290	2349	2292	2284	2204	2224	2198	2196	2187	2211	2191	2262	2272	2351	2298	2286
7	2369	2278	2317	2251	2285	2212	2197	2191	2169	2180	2187	2201	2262	2265	2311	2309	2369
8	2406	2378	2251	2245	2281	2238	2173	2148	2110	2143	2160	2225	2262	2287	2255	2409	2406
9	2334	2367	2232	2255	2280	2230	2169	2108	2163	2093	2155	2220	2245	2294	2274	2364	2334
10	2380	2317	2286	2258	2273	2207	2162	2172	2143	2167	2164	2197	2233	2297	2360	2340	2380
11	2342	2358	2350	2273	2267	2190	2084	2141	2117	2140	2097	2182	2221	2301	2362	2373	2342
12	2345	2310	2304	2297	2244	2163	2105	2102	2135	2103	2063	2163	2204	2274	2283	2321	2345
13	2343	2305	2251	2286	2222	2127	2134	2112	2003	2103	2107	2125	2171	2211	2270	2325	2343
14	2331	2300	2276	2222	2198	2093	2121	2013	1989	2019	2083	2087	2164	2144	2275	2311	2331
15	2440	2282	2242	2153	2178	2066	2107	1978	1941	1977	2094	2069	2151	2118	2224	2311	2440
16	2479	2352	2191	2103	2148	2047	2038	1927	1896	1915	2053	2036	2120	2126	2187	2409	2479
17	2412	2464	2163	2073	2107	2023	2016	1910	1929	1904	2006	1996	2098	2135	2165	2483	2412
18	2487	2426	2138	2065	2069	1987	1964	1917	1837	1907	1949	1977	2080	2130	2160	2427	2487
19	2500	2426	2137	2062	2040	1957	1932	1824	1728	1839	1909	1949	2058	2114	2169	2456	2500
20	2503	2442	2154	2054	2009	1941	1877	1748	1602	1752	1880	1913	2040	2094	2242	2462	2503
21	2602	2423	2227	2034	1977	1970	1849	1628	1735	1643	1834	1898	2003	2074	2300	2461	2602
22	2524	2471	2270	2015	1946	1965	1848	1641	1616	1607	1816	1912	1973	2031	2294	2521	2524
23	2442	2516	2262	1997	1919	1934	1783	1665	1618	1671	1783	1906	1940	1970	2290	2516	2442
24	2392	2418	2245	1969	1901	1898	1704	1562	1470	1562	1710	1883	1905	1918	2272	2401	2392
25	2460	2362	2236	1921	1886	1855	1635	1564	1523	1550	1639	1832	1880	1891	2220	2399	2460
26	2560	2429	2184	1869	1850	1801	1571	1435	1407	1442	1581	1802	1835	1875	2165	2470	2560
27	2699	2467	2116	1842	1813	1777	1475	1498	1411	1426	1488	1747	1802	1861	2132	2477	2699
28	2655	2478	2085	1839	1775	1746	1490	1356	1381	1385	1442	1717	1774	1839	2157	2510	2655
29	2592	2515	2113	1826	1754	1701	1461	1350	1305	1325	1459	1714	1768	1839	2160	2534	2592
30	2583	2528	2117	1807	1734	1646	1391	1308	1243	1310	1413	1658	1747	1829	2177	2568	2583
31	2615	2553	2127	1786	1698	1600	1355	1255	1221	1249	1345	1629	1701	1839	2192	2561	2615
32	2668	2524	2138	1760	1700	1543	1299	1177	1147	1179	1300	1594	1689	1863	2168	2549	2668
33	2694	2496	2121	1768	1677	1518	1254	1152	1109	1126	1250	1530	1695	1828	2116	2501	2694
34	2590	2461	2075	1792	1647	1489	1249	1076	1024	1090	1220	1471	1688	1773	2093	2494	2590
35	2466	2472	2051	1779	1620	1488	1169	1049	991	1036	1210	1452	1655	1749	2134	2503	2466
36	2521	2450	2083	1744	1618	1467	1146	977	926	989	1136	1447	1625	1747	2122	2478	2521
37	2666	2430	2061	1690	1616	1431	1118	925	869	922	1120	1421	1629	1740	2087	2486	2666
38	2782	2452	2033	1670	1552	1378	1072	884	806	877	1088	1406	1648	1734	2040	2512	2782
39	2705	2479	1993	1687	1534	1311	1040	822	744	830	1044	1360	1587	1713	2030	2512	2705
40	2613	2473	1965	1701	1525	1250	984	771	687	773	1020	1342	1572	1705	2021	2502	2613
41	2624	2462	1967	1674	1533	1196	954	718	638	725	964	1290	1568	1729	2005	2493	2624
42	2664	2449	1958	1649	1499	1176	914	668	590	672	932	1216	1553	1736	2050	2512	2664
43	2750	2470	2004	1632	1445	1166	884	616	543	627	891	1159	1535	1704	2032	2551	2750
44	2673	2494	1989	1660	1419	1129	831	570	495	578	866	1133	1482	1677	1976	2521	2673
45	2605	2480	1912	1661	1409	1101	798	525	449	537	814	1128	1446	1671	1955	2533	2605
46	2558	2504	1883	1620	1380	1047	756	482	411	490	783	1086	1427	1692	1970	2531	2558

47	2523	2466	1901	1594	1354	1023	719	446	367	458	742	1050	1389	1688	2025	2468	2523
48	2619	2391	1946	1599	1337	982	683	414	332	422	711	1023	1363	1628	2070	2416	2619
49	2561	2343	1986	1591	1314	957	644	383	304	391	669	986	1365	1580	2046	2412	2561
50	2444	2370	1971	1573	1289	918	604	354	276	363	642	942	1313	1583	1939	2433	2444
51	2412	2367	1876	1524	1270	889	573	330	251	336	601	925	1301	1606	1865	2402	2412
52	2371	2311	1813	1492	1236	839	534	309	231	313	564	877	1281	1615	1880	2327	2371
53	2388	2231	1804	1512	1218	819	501	285	211	295	526	843	1247	1581	1901	2241	2388
54	2404	2170	1805	1499	1217	777	470	266	193	274	493	825	1249	1523	1927	2210	2404
55	2435	2165	1838	1469	1190	735	439	249	175	252	463	776	1224	1526	1910	2222	2435
56	2397	2173	1835	1445	1160	706	414	232	159	235	431	753	1191	1528	1801	2237	2397
57	2404	2195	1737	1437	1140	667	383	216	145	219	403	715	1180	1487	1750	2247	2404
58	2360	2169	1671	1441	1103	633	361	200	131	204	374	683	1155	1475	1721	2214	2360
59	2388	2153	1639	1416	1083	593	336	184	120	189	351	645	1143	1457	1712	2203	2388
60	2334	2101	1650	1382	1051	558	310	171	108	174	328	607	1092	1434	1729	2181	2334
61	2284	2133	1668	1338	1020	525	292	159	98	161	304	581	1077	1416	1691	2150	2284
62	2273	2074	1634	1305	1006	476	277	149	89	151	285	540	1059	1391	1662	2101	2273
63	2221	2029	1587	1277	952	448	263	140	81	141	270	499	1033	1344	1613	2100	2221
64	2172	2001	1538	1270	920	410	249	131	74	132	257	463	1006	1316	1583	2052	2172
65	2167	1935	1489	1259	884	380	237	123	71	125	244	422	960	1285	1564	1995	2167
66	2083	1895	1495	1218	851	351	225	118	69	118	231	387	921	1255	1513	1970	2083
67	1988	1880	1470	1194	800	331	213	112	65	112	220	357	892	1244	1485	1927	1988
68	2009	1785	1445	1151	769	305	203	107	61	108	209	332	855	1204	1468	1832	2009
69	1996	1722	1407	1113	723	285	192	102	58	103	198	306	808	1190	1416	1801	1996
70	1934	1725	1342	1101	676	267	182	96	55	98	187	282	764	1175	1381	1803	1934
71	1974	1704	1301	1077	622	253	171	90	51	92	177	264	718	1131	1346	1765	1974
72	2068	1674	1260	1032	572	242	160	85	48	87	164	250	659	1081	1298	1767	2068
73	1937	1695	1210	1009	519	231	150	78	46	81	154	238	608	1050	1270	1804	1937
74	1885	1684	1183	983	469	220	141	72	43	75	144	227	557	1022	1251	1728	1885
75	1930	1597	1169	942	424	209	132	66	39	69	134	217	502	988	1217	1654	1930
76	1802	1558	1139	907	372	198	123	60	36	63	125	207	446	964	1195	1629	1802
77	1604	1505	1132	852	327	187	115	55	32	57	116	197	391	922	1193	1549	1604
78	1575	1395	1116	825	290	177	108	49	29	51	108	186	346	869	1148	1429	1575
79	1597	1295	1059	770	257	168	100	45	27	46	100	176	305	815	1112	1362	1597
80	1494	1279	1021	716	229	156	92	39	24	41	92	165	267	774	1062	1365	1494
81	1517	1258	981	684	206	147	85	35	22	36	85	154	236	746	1001	1313	1517
82	1576	1208	908	649	184	137	78	30	19	31	78	144	211	714	952	1278	1576
83	1487	1207	857	603	165	128	71	26	17	27	72	135	186	671	927	1285	1487
84	1436	1189	842	575	149	119	64	22	15	22	65	125	166	638	892	1236	1436
85	1368	1125	819	529	134	110	57	18	13	18	58	117	149	602	850	1168	1368
86	1248	1070	785	486	123	103	50	15	11	13	52	108	134	544	828	1119	1248
87	1221	1006	764	444	114	95	43	11	8	9	45	101	120	493	797	1036	1221
88	1167	933	720	394	106	88	36	9	4	4	38	93	109	457	761	978	1167
89	1122	897	681	358	101	83	29	8	3	3	33	86	102	421	726	934	1122
90	1050	849	640	330	98	78	27	7	3	3	30	80	97	390	685	886	1050
91	1007	808	600	305	95	73	25	5	3	3	28	75	94	358	646	835	1007
92	946	755	570	283	92	69	23	4	3	3	26	71	91	326	602	788	946
93	903	716	528	258	88	65	21	3	4	3	24	66	88	297	565	742	903
94	859	671	492	232	84	61	19	1	4	3	22	63	85	267	534	697	859
95	798	638	460	210	80	58	18	0	4	3	21	60	81	243	500	659	798

96	740	598	433	192	76	56	17	3	4	3	19	58	77	222	464	619	740
97	670	555	397	176	73	53	16	3	4	3	18	55	74	202	435	575	670
98	628	514	368	162	69	50	15	3	4	3	17	52	70	185	405	529	628
99	572	470	337	150	66	47	13	4	4	3	16	49	67	171	372	486	572
100	512	438	309	140	63	45	12	4	4	3	15	47	63	159	339	453	512
101	463	403	281	130	61	43	12	4	4	4	14	44	61	146	310	414	463
102	414	366	256	121	58	40	11	4	4	4	13	42	58	136	283	378	414
103	371	335	233	114	56	38	10	4	4	4	12	40	56	127	257	347	371
104	328	305	210	106	54	36	9	4	5	4	11	37	54	117	232	320	328
105	290	280	191	99	52	34	9	4	5	4	10	35	53	109	211	289	290
106	255	253	174	92	50	32	8	4	5	4	10	33	51	102	191	263	255
107	215	232	159	86	49	30	7	4	5	4	9	31	49	95	173	238	215
108	177	211	147	80	47	28	7	4	5	4	8	29	47	89	160	217	177
109	151	193	137	75	46	26	6	4	5	4	7	28	46	84	148	197	151
110	133	176	128	71	44	24	5	4	5	4	7	26	44	79	137	182	133
111	121	164	120	67	42	23	5	4	5	4	6	24	43	74	129	168	121
112	112	152	113	63	41	22	5	4	5	4	6	22	41	69	121	157	112
113	103	143	107	59	39	20	4	4	5	4	5	21	39	65	114	149	103
114	101	138	102	55	38	19	4	4	5	4	5	20	38	61	109	143	101
115	102	134	98	52	37	17	4	4	5	4	5	19	37	58	105	139	102
116	103	130	95	49	36	16	4	4	5	4	4	17	36	55	101	135	103
117	105	127	92	47	34	15	3	4	5	4	4	16	34	52	98	133	105
118	106	124	90	45	33	14	3	4	5	4	4	15	33	49	95	130	106
119	105	122	87	42	31	13	3	4	5	4	3	14	32	45	92	127	105
120	105	119	84	40	30	12	3	4	5	4	3	13	31	42	90	125	105
121	103	117	81	38	28	11	3	4	5	4	3	12	29	40	87	123	103
122	102	115	78	36	27	10	3	4	5	4	3	11	28	38	84	120	102
123	100	112	75	34	25	10	3	4	5	4	3	10	26	35	80	118	100
124	98	109	71	31	24	9	3	4	5	4	3	9	25	33	77	115	98
125	96	106	67	30	22	8	3	4	5	4	3	9	23	30	73	112	96
126	93	103	63	28	20	8	3	4	5	4	3	8	22	28	69	109	93
127	89	100	59	26	19	7	3	4	5	4	3	7	20	27	65	106	89
128	85	96	55	25	18	6	3	4	5	4	3	7	19	25	61	102	85
129	81	92	50	23	16	6	3	4	5	4	3	6	18	23	56	98	81
130	77	88	46	21	15	6	3	4	5	4	3	6	16	22	52	93	77
131	73	82	42	20	14	5	3	4	4	4	3	5	15	20	47	87	73
132	69	76	37	18	13	5	3	4	4	4	4	5	14	19	43	82	69
133	64	71	32	17	12	4	3	4	4	4	4	5	13	18	37	76	64
134	60	66	28	16	11	4	4	4	4	4	4	4	12	17	32	70	60
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179	5	6	6	6	6	6	6	6	6	5	6	6	6	7	7	6	5
180	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

### Luminaire Report Summary

IESNA:LM-63-2002  
 [TEST]  
 [TESTDATE] 2017-12-04  
 [TESTLAB] Standard-Tech Co. Ltd  
 [ISSUE DATE] 2017-12-04  
 [MANUFAC] SARIN Energy Inc  
 [LUMINAIRE] SES-SWP-XXXX-55  
 [LAMP]  
 [\_LAMPPOSITION] 0,0  
 [\_TOTALLUMINAIRELUMENS] 7588.5  
 [OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 215.27  
 215.27 2.84 2.8410- 20 606.58 821.85 10.83 10.8320- 30 891.86 1713.71 22.59  
 22.5930- 40 1056.31 2770.02 36.51 36.5140- 50 1113.20 3883.22 51.18 51.1850- 60  
 1064.03 4947.25 65.20 65.2060- 70 937.79 5885.05 77.56 77.5670- 80 733.62 6618.67  
 87.23 87.2380- 90 481.97 7100.64 93.58 93.5890-100 263.45 7364.09 97.06 97.06100-  
 110 114.45 7478.54 98.56 98.56110-120 52.39 7530.93 99.25 99.25120-130 33.35  
 7564.28 99.69 99.69130-140 15.33 7579.60 99.90 99.90140-150 4.09 7583.69 99.95  
 99.95150-160 1.90 7585.60 99.98 99.98160-170 1.31 7586.91 99.99 99.99170-180 0.58  
 7587.48 100.00 100.00

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.