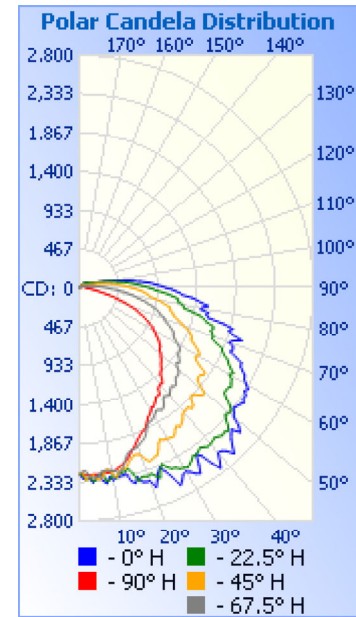


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Wall Pack SWP 55W - 277V  
**Manufacturer:** SARIN Energy Inc  
**Luminaire:** SES-SWP-XXXX-55-277V  
**Lamp:**  
**Lamp Output:** Total luminaire Lumens: 7506.7  
**Max Candela:** 2,753.5 at Horizontal: 0°, Vertical: 38°  
**Input Wattage:** 55.8  
**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:	1,039.2	
Max Cd, 80 to <90 Deg:	1,558.5	
	Lumens	% Lamp
Downward Street Side:	5,028.6	67%
Downward House Side:	1,997.0	26.6%
Downward Total:	7,025.6	93.6%
Upward Street Side:	440.4	5.9%
Upward House Side:	41.0	0.5%
Upward Total:	481.5	6.4%
Total Lumens:	7,507.0	100%

### Flood Summary

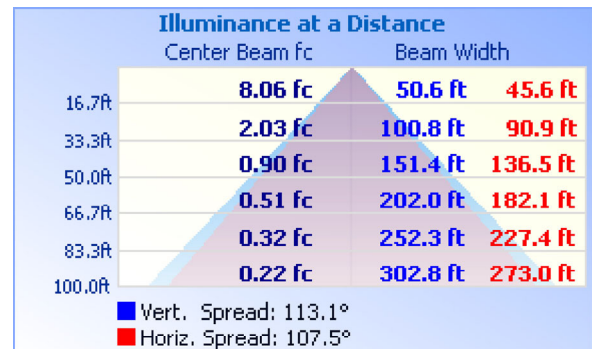
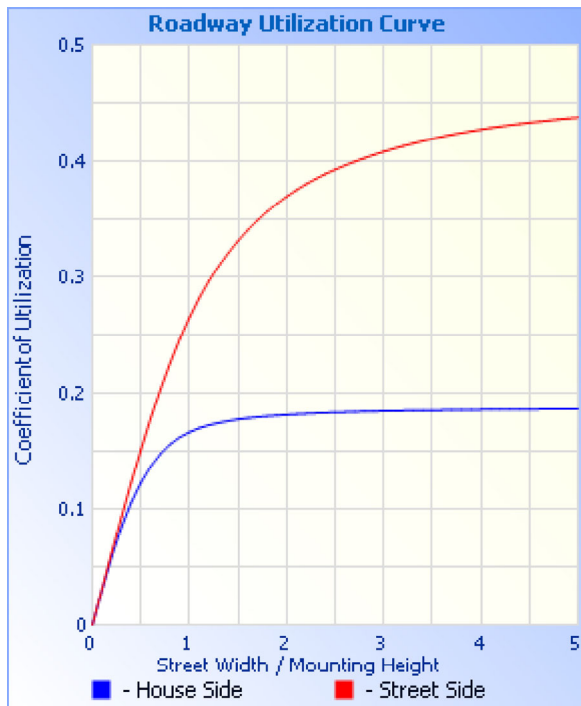
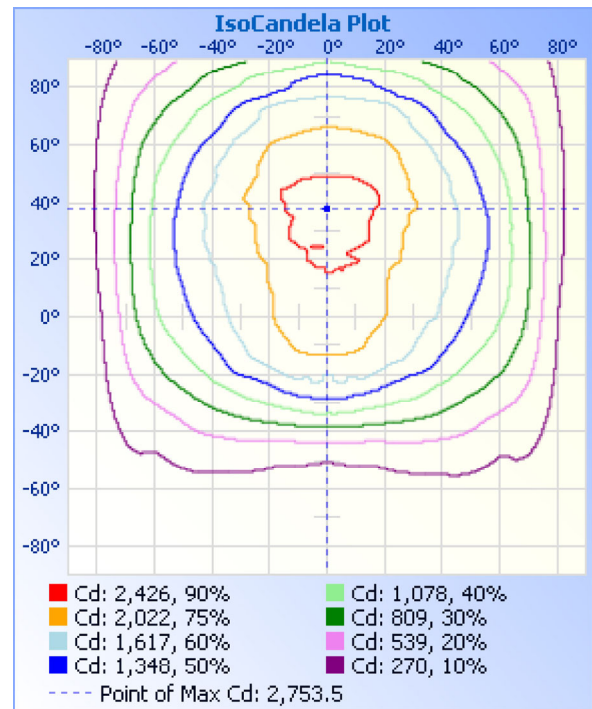
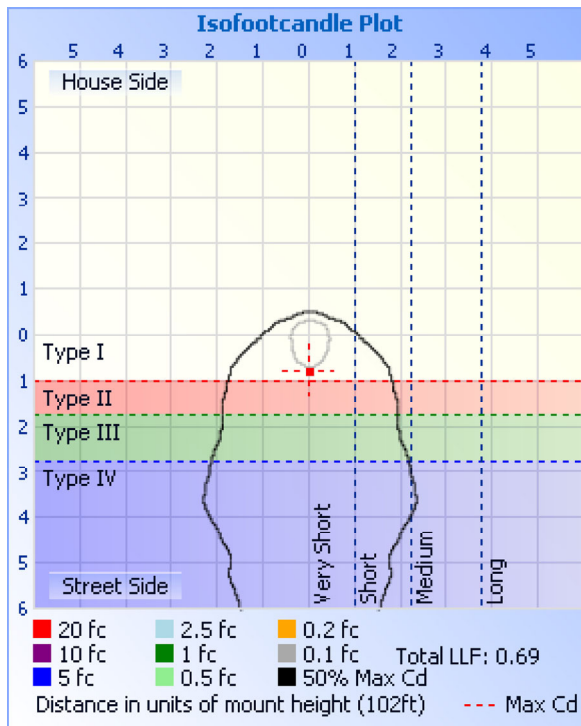
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.9%	7,120.7	163.2	155.6
Beam (50%):	66.5%	4,989.4	107.5	113.1
Total:	100%	7,507.1		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1,695.5	22.6%
0-40	2,740.5	36.5%
0-60	4,894.1	65.2%
60-90	2,131.1	28.4%
70-100	1,464.1	19.5%
90-120	425.9	5.7%
0-90	7,025.1	93.6%
90-180	481.6	6.4%
0-180	7,506.7	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	213.0	2.8%	90-100	260.9	3.5%
10-20	600.1	8.0%	100-110	113.2	1.5%
20-30	882.4	11.8%	110-120	51.8	0.7%
30-40	1,045.0	13.9%	120-130	33.0	0.4%
40-50	1,101.1	14.7%	130-140	15.1	0.2%
50-60	1,052.5	14.0%	140-150	4.0	0.1%
60-70	927.8	12.4%	150-160	1.8	0%
70-80	726.2	9.7%	160-170	1.3	0%
80-90	477.1	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	.27	.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	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247
1	2295	2266	2222	2215	2256	2280	2257	2220	2208	2207	2233	2264	2250	2219	2253	2287	2295
2	2302	2315	2319	2213	2259	2257	2185	2190	2199	2184	2173	2220	2249	2269	2331	2315	2302
3	2298	2274	2287	2270	2257	2196	2200	2221	2227	2213	2183	2173	2246	2317	2289	2287	2298
4	2353	2341	2259	2297	2256	2175	2219	2213	2199	2201	2210	2166	2245	2316	2293	2350	2353
5	2297	2321	2308	2292	2259	2182	2219	2201	2186	2187	2215	2173	2242	2290	2336	2314	2297
6	2262	2266	2324	2268	2259	2181	2200	2176	2174	2164	2188	2167	2237	2250	2325	2274	2262
7	2344	2252	2291	2228	2259	2191	2175	2168	2147	2158	2164	2176	2237	2241	2286	2283	2344
8	2381	2352	2228	2219	2256	2215	2152	2125	2091	2122	2138	2199	2236	2263	2230	2383	2381
9	2309	2343	2206	2231	2254	2209	2147	2085	2143	2071	2131	2195	2223	2272	2249	2339	2309
10	2355	2292	2264	2232	2248	2183	2139	2148	2121	2144	2140	2171	2210	2275	2335	2315	2355
11	2318	2332	2326	2247	2240	2169	2064	2119	2095	2118	2074	2157	2196	2279	2336	2346	2318
12	2322	2286	2278	2271	2219	2144	2085	2079	2112	2082	2043	2139	2177	2252	2259	2296	2322
13	2319	2281	2228	2259	2198	2105	2111	2089	1982	2083	2084	2103	2148	2189	2245	2299	2319
14	2308	2275	2250	2199	2174	2072	2099	1991	1968	1998	2061	2064	2139	2122	2250	2286	2308
15	2412	2258	2218	2128	2153	2045	2087	1957	1921	1958	2074	2047	2126	2095	2199	2286	2412
16	2449	2327	2166	2080	2125	2025	2017	1906	1875	1897	2032	2013	2095	2102	2164	2382	2449
17	2386	2438	2141	2051	2084	2004	1996	1888	1908	1884	1986	1976	2076	2113	2142	2456	2386
18	2462	2399	2114	2042	2047	1967	1944	1898	1820	1888	1929	1956	2058	2108	2137	2400	2462
19	2474	2401	2114	2040	2018	1936	1910	1805	1711	1822	1888	1928	2037	2091	2145	2431	2474
20	2476	2416	2130	2032	1985	1921	1860	1730	1584	1735	1862	1892	2018	2073	2217	2435	2476
21	2573	2397	2202	2011	1954	1948	1831	1610	1717	1625	1815	1877	1983	2052	2274	2436	2573
22	2501	2444	2248	1992	1924	1945	1829	1619	1599	1592	1797	1892	1952	2010	2270	2494	2501
23	2416	2487	2237	1975	1898	1912	1763	1646	1602	1654	1765	1886	1919	1951	2267	2487	2416
24	2367	2393	2220	1948	1879	1878	1687	1546	1459	1547	1693	1862	1885	1898	2247	2376	2367
25	2434	2336	2212	1901	1865	1836	1618	1547	1507	1535	1623	1812	1859	1870	2197	2372	2434
26	2534	2403	2161	1850	1828	1783	1557	1419	1394	1427	1566	1783	1816	1856	2142	2443	2534
27	2671	2441	2093	1822	1794	1760	1460	1473	1395	1406	1475	1728	1783	1840	2111	2450	2671
28	2627	2451	2061	1818	1756	1727	1475	1342	1368	1372	1427	1698	1754	1821	2133	2484	2627
29	2565	2488	2090	1808	1737	1683	1446	1336	1292	1311	1444	1696	1749	1820	2137	2507	2565
30	2555	2500	2093	1787	1713	1631	1377	1293	1231	1298	1398	1640	1729	1809	2154	2540	2555
31	2586	2523	2103	1765	1679	1583	1340	1242	1209	1236	1332	1611	1683	1820	2168	2533	2586
32	2640	2497	2114	1739	1682	1527	1286	1165	1136	1168	1287	1577	1671	1844	2146	2521	2640
33	2665	2471	2097	1748	1658	1501	1241	1140	1098	1115	1237	1514	1675	1809	2093	2476	2665
34	2565	2435	2051	1772	1630	1474	1235	1065	1014	1079	1207	1455	1668	1755	2071	2467	2565
35	2440	2446	2029	1759	1601	1472	1156	1038	981	1026	1198	1436	1637	1730	2110	2476	2440
36	2494	2424	2059	1727	1601	1451	1134	967	917	979	1124	1432	1606	1729	2098	2452	2494
37	2638	2404	2038	1672	1598	1417	1107	915	861	913	1109	1406	1611	1723	2064	2459	2638
38	2753	2425	2011	1651	1535	1365	1061	875	798	869	1077	1390	1630	1717	2017	2486	2753
39	2677	2451	1970	1668	1516	1296	1028	813	737	822	1033	1346	1569	1694	2008	2486	2677
40	2585	2448	1943	1684	1508	1236	973	763	680	765	1009	1329	1554	1687	1998	2475	2585
41	2596	2435	1946	1655	1517	1184	942	710	631	717	953	1276	1550	1711	1983	2466	2596
42	2636	2422	1936	1632	1482	1164	905	661	584	665	923	1201	1536	1715	2027	2485	2636
43	2722	2443	1981	1613	1429	1153	875	609	538	621	882	1146	1518	1687	2010	2524	2722
44	2645	2466	1965	1642	1405	1117	822	564	491	572	858	1122	1467	1659	1954	2494	2645
45	2577	2453	1893	1642	1393	1090	789	520	445	530	806	1115	1431	1653	1933	2507	2577
46	2531	2477	1863	1603	1365	1037	748	477	406	485	775	1075	1412	1674	1947	2504	2531

47	2495	2439	1879	1575	1338	1012	711	441	363	453	735	1039	1373	1670	2002	2442	2495
48	2593	2367	1924	1580	1322	971	676	410	328	417	703	1012	1348	1611	2047	2389	2593
49	2535	2318	1965	1575	1300	948	638	379	300	387	662	975	1350	1564	2021	2386	2535
50	2416	2346	1952	1555	1275	908	598	351	272	360	635	932	1297	1566	1918	2407	2416
51	2385	2342	1856	1508	1256	879	567	327	249	333	595	916	1285	1590	1845	2376	2385
52	2345	2287	1795	1475	1223	831	527	305	228	310	559	867	1267	1597	1858	2304	2345
53	2364	2208	1783	1495	1204	810	496	283	209	292	520	834	1233	1564	1880	2220	2364
54	2379	2145	1786	1483	1202	768	465	263	191	271	488	815	1236	1508	1908	2188	2379
55	2409	2142	1818	1454	1176	729	434	246	173	250	458	768	1212	1510	1890	2200	2409
56	2373	2149	1815	1429	1148	700	410	229	157	233	427	746	1179	1512	1782	2212	2373
57	2379	2171	1719	1421	1127	661	379	214	143	217	399	707	1166	1471	1730	2222	2379
58	2334	2146	1653	1425	1090	627	357	198	130	202	370	676	1141	1459	1702	2191	2334
59	2365	2130	1622	1400	1070	587	332	183	118	187	348	638	1130	1443	1695	2180	2365
60	2309	2077	1633	1367	1039	551	306	170	107	172	325	601	1080	1419	1710	2157	2309
61	2261	2111	1650	1323	1009	520	288	157	97	160	301	574	1065	1403	1673	2127	2261
62	2248	2052	1616	1290	995	470	274	147	88	149	282	534	1047	1376	1643	2078	2248
63	2197	2007	1570	1263	942	443	260	138	80	140	267	493	1021	1331	1596	2078	2197
64	2149	1980	1522	1256	910	405	247	129	73	131	255	458	995	1303	1565	2030	2149
65	2144	1915	1474	1243	873	376	234	122	71	123	241	418	948	1271	1547	1973	2144
66	2062	1874	1478	1205	842	347	223	117	68	117	229	382	912	1242	1497	1948	2062
67	1966	1861	1453	1180	790	327	211	111	64	111	218	353	883	1232	1470	1906	1966
68	1987	1767	1430	1137	760	302	201	106	61	107	207	328	846	1192	1452	1814	1987
69	1974	1703	1392	1101	715	282	190	101	57	102	196	303	800	1177	1401	1781	1974
70	1912	1706	1329	1088	667	264	180	95	54	96	185	279	755	1163	1366	1783	1912
71	1953	1685	1287	1066	614	250	169	90	51	91	175	261	711	1120	1331	1746	1953
72	2047	1656	1247	1021	565	239	159	84	48	86	163	247	652	1070	1284	1749	2047
73	1915	1677	1196	998	513	228	149	77	45	80	153	236	602	1039	1257	1786	1915
74	1865	1667	1170	971	463	218	140	71	42	74	142	225	551	1011	1238	1709	1865
75	1906	1581	1157	932	419	207	130	65	38	68	132	215	496	977	1204	1637	1906
76	1784	1542	1126	897	367	196	122	59	35	62	124	205	441	954	1181	1612	1784
77	1586	1490	1119	842	323	185	114	54	32	56	115	194	387	913	1180	1532	1586
78	1557	1380	1104	815	285	175	107	49	29	51	106	184	342	859	1136	1414	1557
79	1579	1281	1049	762	253	166	99	44	26	46	99	174	301	807	1101	1347	1579
80	1477	1267	1011	708	226	155	91	39	24	40	91	163	264	765	1051	1351	1477
81	1500	1244	970	677	204	145	84	34	22	35	84	152	234	738	990	1299	1500
82	1558	1196	898	642	182	135	77	30	19	31	77	142	208	706	941	1265	1558
83	1471	1194	847	597	163	126	70	26	17	26	71	133	184	663	917	1271	1471
84	1420	1177	832	568	147	118	64	22	15	22	64	123	164	631	883	1222	1420
85	1355	1112	809	523	133	109	56	18	13	17	58	115	148	595	841	1156	1355
86	1235	1059	777	481	122	102	50	14	10	13	51	107	133	539	819	1106	1235
87	1207	995	757	438	112	94	43	11	8	9	44	100	118	487	789	1025	1207
88	1154	922	711	390	105	88	36	7	4	4	37	92	108	451	754	968	1154
89	1111	888	674	354	100	82	29	3	3	3	32	85	101	416	718	923	1111
90	1039	840	634	327	97	77	26	3	3	3	30	80	96	385	678	876	1039
91	996	800	593	301	93	72	24	3	3	3	28	74	93	354	640	826	996
92	936	747	564	280	91	68	22	3	3	3	26	70	90	323	596	779	936
93	894	709	523	255	87	64	21	3	3	3	24	66	87	294	559	735	894
94	850	665	487	230	83	61	19	3	3	3	22	62	84	264	529	689	850
95	789	631	456	208	79	58	18	3	4	3	20	60	80	240	494	652	789

96	732	591	428	190	75	55	17	3	4	3	19	57	77	220	459	612	732
97	662	549	393	174	72	52	16	3	4	3	18	54	73	199	431	570	662
98	622	509	364	161	68	50	14	3	4	3	17	51	69	183	401	523	622
99	565	465	334	149	65	47	13	3	4	3	16	49	66	169	368	481	565
100	507	433	305	139	62	45	12	4	4	3	15	46	63	157	335	449	507
101	458	399	278	129	60	42	11	4	4	3	14	44	60	145	307	409	458
102	410	362	253	120	57	40	11	4	4	4	13	41	58	135	280	374	410
103	367	331	231	112	55	38	10	4	4	3	12	39	56	126	254	343	367
104	324	302	208	104	53	36	9	4	4	4	11	37	54	116	229	316	324
105	286	277	188	97	51	34	8	4	4	4	10	35	52	108	209	286	286
106	252	250	172	91	50	32	7	4	4	4	9	33	50	101	188	260	252
107	213	230	158	85	48	30	7	4	4	4	8	31	49	94	171	235	213
108	175	209	146	79	46	28	6	4	4	4	8	29	47	88	158	214	175
109	150	191	136	75	45	26	6	4	4	4	7	27	45	83	147	196	150
110	132	175	127	70	43	24	5	4	4	4	7	25	43	78	136	180	132
111	120	162	119	66	42	23	5	4	5	4	6	24	42	73	128	166	120
112	111	150	112	62	40	21	4	4	5	4	6	22	40	68	120	155	111
113	102	141	106	58	39	20	4	4	5	4	5	21	39	64	113	147	102
114	100	136	101	55	38	19	4	4	5	4	5	19	37	60	108	142	100
115	101	132	97	52	37	17	4	4	5	4	4	18	36	57	104	137	101
116	102	129	94	49	35	16	3	4	5	4	4	17	35	54	101	134	102
117	104	126	91	46	34	15	3	4	5	4	4	16	34	51	97	131	104
118	105	123	89	44	32	14	3	4	5	4	4	14	32	48	94	128	105
119	104	121	86	42	31	13	3	4	5	4	3	14	31	45	91	126	104
120	104	118	83	40	30	12	3	4	5	4	3	12	30	42	89	124	104
121	102	116	80	38	28	11	3	4	5	4	3	12	29	39	86	122	102
122	101	113	77	35	26	10	3	4	5	4	3	10	27	37	83	119	101
123	99	111	74	33	25	9	3	4	5	4	3	10	26	35	80	116	99
124	97	107	70	31	23	9	3	4	5	4	3	9	25	32	76	114	97
125	95	105	67	30	21	8	3	4	5	4	3	8	23	30	72	111	95
126	92	102	63	28	20	7	3	4	4	4	3	8	22	28	68	108	92
127	88	99	59	26	19	7	3	4	4	4	3	7	20	26	64	105	88
128	84	95	54	24	17	6	3	4	4	4	3	7	19	24	60	101	84
129	80	91	50	23	16	6	3	4	4	4	3	6	17	23	56	97	80
130	76	87	46	21	15	5	3	4	4	4	3	6	16	21	52	92	76
131	72	81	41	20	14	5	3	4	4	4	3	5	15	20	47	87	72
132	68	76	36	18	13	5	3	4	4	4	3	5	14	18	42	81	68
133	64	71	32	17	12	4	3	4	4	4	4	4	13	17	37	75	64
134	59	65	27	16	11	4	3	4	4	4	3	4	12	16	32	70	59
135	55	60	23	15	10	4	3	4	4	4	4	4	11	15	27	63	55
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179	5	6	6	6	6	6	6	6	6	5	6	6	6	6	6	6	5
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<b>Luminaire Report Summary</b>
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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-55-277V  
 [LAMP]  
 [\_LAMPPOSITION] 0,0  
 [\_TOTALLUMINAIRELUMENS] 7506.7  
 [OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 212.99  
 212.99 2.84 2.8410- 20 600.16 813.15 10.83 10.8320- 30 882.41 1695.56 22.59  
 22.5930- 40 1045.10 2740.66 36.51 36.5140- 50 1101.24 3841.90 51.18 51.1850- 60  
 1052.71 4894.61 65.21 65.2160- 70 927.74 5822.35 77.57 77.5770- 80 725.85 6548.20  
 87.24 87.2480- 90 476.79 7024.99 93.59 93.5990-100 260.68 7285.67 97.06 97.06100-  
 110 113.17 7398.84 98.57 98.57110-120 51.77 7450.61 99.26 99.26120-130 32.94  
 7483.55 99.70 99.70130-140 15.09 7498.64 99.90 99.90140-150 3.97 7502.61 99.95  
 99.95150-160 1.83 7504.43 99.98 99.98160-170 1.26 7505.69 99.99 99.99170-180 0.56  
 7506.25 100.00 100.00

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.