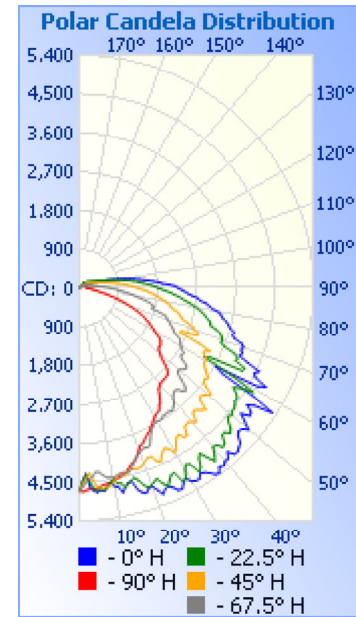


# Photometrics Pro

## Luminaire Photometric Report

**Filename:** Wall Pack SWP 120W - 277V  
**Manufacturer:** SARN Energy Inc  
**Luminaire:** SES-SWP-4000-120 277V  
**Lamp Output:** Total luminaire Lumens: 15158.3  
**Max Candela:** 5,381.2 at Horizontal: 0°, Vertical: 37°  
**Input Wattage:** 115.4  
**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:	2,277.2	
Max Cd, 80 to <90 Deg:	3,282.3	
	Lumens	% Lamp
Downward Street Side:	10,178.3	67.1%
Downward House Side:	3,886.3	25.6%
Downward Total:	14,064.5	92.8%
Upward Street Side:	1,005.6	6.6%
Upward House Side:	88.8	0.6%
Upward Total:	1,094.5	7.2%
<b>Total Lumens:</b>	<b>15,159.0</b>	<b>100%</b>

### Flood Summary

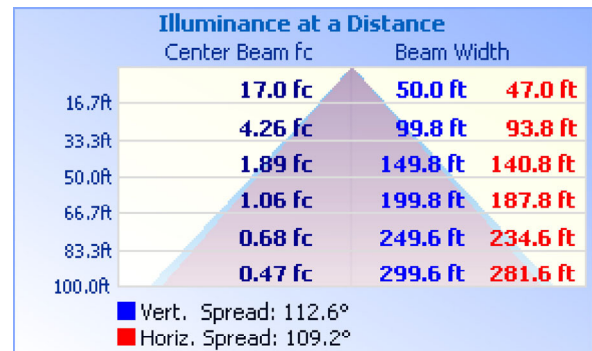
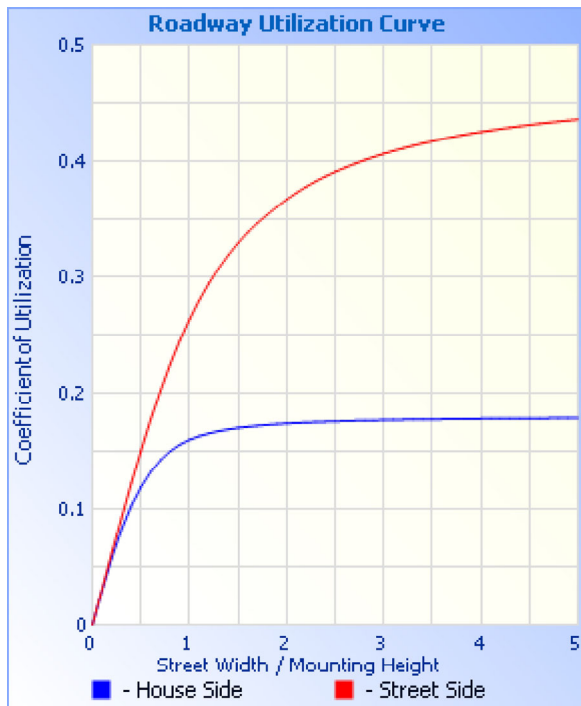
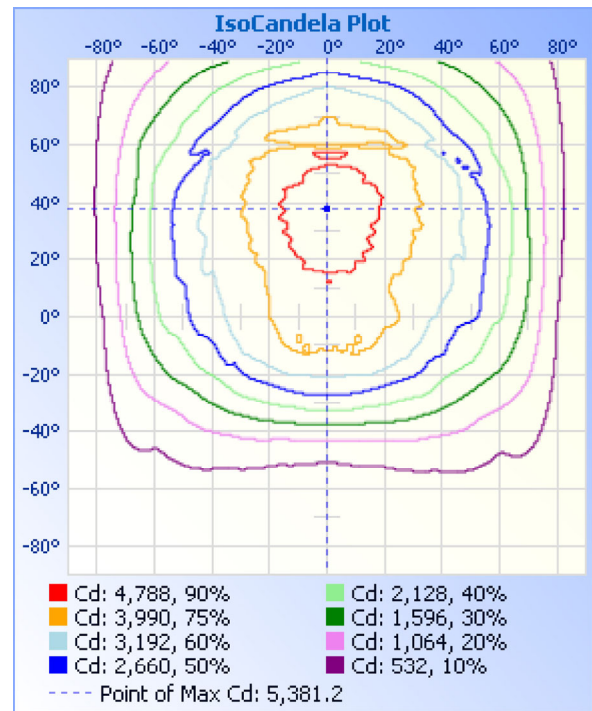
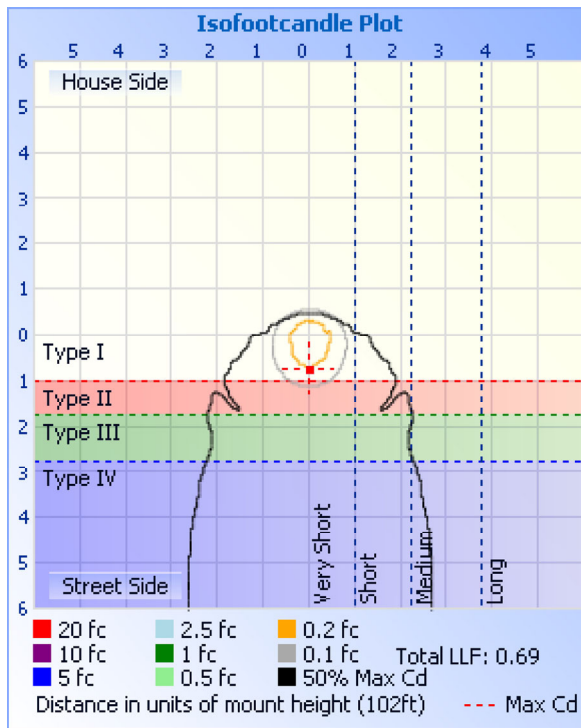
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	14,358.0	162.9	157.3
Beam (50%):	67.2%	10,185.9	109.2	112.6
<b>Total:</b>	<b>100%</b>	<b>15,159.3</b>		

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	3,397.6	22.4%
0-40	5,485.2	36.2%
0-60	9,770.3	64.5%
60-90	4,293.3	28.3%
70-100	3,014.2	19.9%
90-120	964.2	6.4%
0-90	14,063.7	92.8%
90-180	1,094.7	7.2%
0-180	15,158.3	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	427.2	2.8%	90-100	568.7	3.8%
10-20	1,204.5	7.9%	100-110	268.3	1.8%
20-30	1,765.8	11.6%	110-120	127.3	0.8%
30-40	2,087.6	13.8%	120-130	75.7	0.5%
40-50	2,185.4	14.4%	130-140	36.0	0.2%
50-60	2,099.8	13.9%	140-150	10.1	0.1%
60-70	1,847.8	12.2%	150-160	4.4	0%
70-80	1,460.0	9.6%	160-170	3.0	0%
80-90	985.5	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	.62	.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	.47	.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	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727	4727
1	4483	4501	4558	4631	4738	4808	4728	4617	4570	4577	4638	4729	4695	4588	4531	4493	4483
2	4326	4332	4424	4519	4701	4676	4464	4412	4403	4388	4406	4598	4694	4502	4419	4345	4326
3	4619	4497	4311	4448	4686	4513	4397	4386	4404	4370	4360	4475	4689	4456	4355	4558	4619
4	4722	4675	4481	4388	4687	4403	4373	4437	4376	4416	4366	4378	4654	4368	4606	4693	4722
5	4775	4751	4628	4299	4673	4365	4446	4142	4075	4125	4433	4325	4594	4329	4681	4772	4775
6	4722	4686	4676	4305	4638	4339	4273	4197	4345	4193	4265	4291	4568	4412	4750	4711	4722
7	4756	4739	4695	4381	4606	4307	4063	4576	5047	4558	4005	4280	4563	4531	4713	4790	4756
8	4637	4687	4649	4440	4595	4326	4258	4925	4209	4943	4165	4305	4550	4561	4685	4684	4637
9	4585	4573	4657	4460	4580	4410	4638	3825	3412	3878	4551	4367	4514	4563	4693	4583	4585
10	4679	4526	4579	4475	4539	4342	4939	3407	4178	3402	4965	4378	4466	4544	4609	4585	4679
11	4712	4628	4510	4453	4516	4106	4075	4568	4669	4417	4266	4186	4465	4512	4509	4693	4712
12	4865	4647	4420	4430	4498	3968	3538	4525	3816	4566	3589	3992	4479	4497	4458	4710	4865
13	4737	4760	4419	4404	4455	3982	3587	3774	3965	3784	3516	3931	4460	4549	4518	4813	4737
14	4679	4675	4474	4424	4427	4135	4363	3939	3652	3919	4086	3993	4427	4552	4508	4713	4679
15	4648	4639	4411	4426	4363	4399	4423	3698	3850	3695	4462	4160	4385	4441	4460	4675	4648
16	4874	4586	4377	4366	4284	4616	3969	3804	3763	3749	4139	4378	4337	4319	4465	4647	4874
17	4970	4682	4391	4264	4228	4459	3671	3719	3768	3746	3709	4506	4330	4234	4505	4766	4970
18	5018	4824	4409	4163	4197	3996	3775	3736	3443	3715	3728	4335	4341	4166	4491	4910	5018
19	4926	4901	4386	4101	4110	3608	3687	3535	3258	3613	3675	3940	4304	4132	4427	4952	4926
20	4896	4882	4323	4072	4002	3489	3658	3230	3202	3276	3644	3587	4252	4127	4365	4912	4896
21	5030	4830	4280	4015	3918	3482	3537	3195	3207	3182	3577	3406	4217	4139	4346	4875	5030
22	5170	4784	4232	3996	3897	3664	3475	3098	3098	3102	3463	3389	4207	4077	4345	4859	5170
23	5082	4938	4246	4014	3841	3908	3483	3016	2988	3027	3434	3527	4174	3977	4497	5084	5082
24	5042	5046	4389	4001	3780	3937	3325	2935	2881	2952	3399	3792	4066	3890	4571	5057	5042
25	5115	4934	4445	3886	3730	3817	3168	2854	2886	2876	3242	3882	3949	3830	4432	4978	5115
26	5230	4836	4332	3766	3692	3616	3010	2795	2785	2761	3085	3803	3897	3777	4360	4909	5230
27	5247	4814	4245	3686	3634	3406	2911	2774	2635	2748	2929	3593	3833	3754	4338	4971	5247
28	5128	5094	4203	3631	3585	3388	2849	2655	2542	2659	2854	3393	3715	3769	4372	5217	5128
29	5062	5082	4264	3595	3519	3338	2802	2516	2471	2527	2791	3282	3610	3774	4517	5071	5062
30	5188	4886	4407	3572	3473	3195	2726	2412	2376	2406	2733	3286	3531	3751	4465	4952	5188
31	5231	4779	4342	3589	3427	3189	2627	2335	2255	2335	2665	3190	3455	3721	4318	4832	5231
32	5237	4823	4203	3595	3408	3210	2511	2234	2172	2238	2579	3055	3394	3699	4244	5021	5237
33	5130	5098	4126	3543	3389	3062	2444	2120	2057	2141	2449	3055	3370	3667	4226	5177	5130
34	5173	5018	4105	3548	3296	2914	2394	2040	1956	2043	2388	2992	3313	3640	4366	5018	5173
35	5243	4820	4236	3534	3259	2767	2326	1937	1842	1950	2343	2929	3224	3676	4366	4853	5243
36	5355	4735	4229	3543	3164	2646	2244	1840	1714	1862	2255	2865	3211	3712	4221	4850	5355
37	5381	4921	4044	3572	3069	2662	2143	1739	1600	1767	2183	2722	3188	3680	4177	5141	5381
38	5259	5091	4019	3522	2976	2671	2066	1642	1481	1664	2102	2578	3158	3554	4164	5178	5259
39	5311	4969	4007	3473	2933	2647	2002	1538	1373	1560	2023	2517	3123	3455	4212	4993	5311
40	5235	4810	4058	3390	2896	2520	1924	1433	1269	1457	1967	2527	3059	3450	4209	4906	5235
41	5243	4821	4118	3301	2893	2338	1843	1340	1179	1366	1896	2539	3033	3508	4037	5003	5243
42	5116	4958	3924	3265	2879	2214	1760	1245	1100	1273	1799	2495	2963	3577	4041	5115	5116
43	5264	4929	3889	3242	2883	2154	1661	1158	1022	1183	1726	2324	2873	3631	4122	4988	5264
44	5272	4756	3931	3273	2872	2118	1583	1076	930	1103	1641	2182	2812	3539	4184	4844	5272
45	5221	4740	4005	3382	2872	2057	1503	1003	856	1031	1567	2091	2766	3354	4145	4900	5221
46	5174	4849	4064	3416	2846	1988	1428	923	768	956	1479	2052	2739	3252	3957	5018	5174

47	5010	4784	3823	3340	2773	1934	1344	860	692	880	1405	1998	2722	3215	3885	4899	5010
48	4958	4633	3761	3167	2678	1852	1271	794	634	814	1322	1955	2726	3195	3909	4726	4958
49	4980	4546	3784	3022	2560	1776	1190	732	577	759	1255	1875	2709	3217	4039	4716	4980
50	5115	4602	3873	2976	2453	1715	1115	686	525	698	1179	1798	2696	3340	4035	4753	5115
51	4918	4546	3914	2996	2403	1630	1049	630	484	647	1102	1740	2698	3352	3821	4757	4918
52	4744	4552	3706	3065	2326	1555	981	584	444	600	1039	1669	2688	3223	3759	4713	4744
53	4933	4504	3599	3097	2299	1493	918	542	408	556	963	1600	2585	3088	3756	4647	4933
54	4907	4450	3585	3054	2306	1430	857	502	375	510	899	1516	2475	2990	3809	4558	4907
55	4737	4454	3639	2920	2288	1359	806	468	341	476	839	1450	2356	3001	3719	4603	4737
56	4883	4382	3550	2818	2260	1292	746	436	312	444	785	1375	2271	3072	3616	4468	4883
57	5325	4245	3473	2834	2241	1220	699	405	285	414	739	1323	2235	2963	3616	4411	5325
58	4742	4372	3412	2855	2171	1143	656	375	262	383	690	1257	2159	2890	3605	4695	4742
59	3844	4688	3359	2752	2093	1074	610	347	241	355	642	1188	2138	2849	3553	4733	3844
60	3633	4119	3363	2712	2009	1011	569	324	220	331	603	1111	2140	2841	3578	3990	3633
61	4714	3306	3360	2663	1961	945	539	303	201	309	561	1050	2085	2837	3484	3199	4714
62	4883	3439	3242	2634	1881	874	513	284	183	288	531	980	2059	2707	3435	3902	4883
63	4569	4227	3246	2601	1813	819	489	265	166	269	506	907	1979	2637	3504	4439	4569
64	4495	4261	3363	2503	1742	756	464	247	152	250	482	845	1891	2596	3382	4318	4495
65	4589	3984	3061	2420	1679	702	440	233	145	234	458	780	1811	2577	2862	4119	4589
66	4260	4008	2552	2370	1622	652	419	222	137	222	434	714	1749	2533	2510	4150	4260
67	4021	3903	2560	2338	1537	610	398	211	131	212	414	660	1681	2499	2982	3931	4021
68	4064	3601	2937	2275	1447	570	377	201	123	202	393	612	1602	2439	3139	3680	4064
69	4008	3504	2943	2245	1348	534	358	192	115	194	373	570	1523	2371	3000	3640	4008
70	4041	3523	2796	2178	1263	505	339	182	108	185	353	530	1444	2334	2923	3635	4041
71	3968	3475	2784	2138	1168	482	321	171	102	175	333	497	1354	2315	2807	3595	3968
72	3756	3433	2646	2098	1079	462	301	160	96	165	314	473	1255	2178	2650	3538	3756
73	3695	3310	2497	1963	982	439	282	149	90	155	292	449	1145	1948	2561	3399	3695
74	3728	3158	2445	1751	881	417	265	137	84	143	273	430	1041	1901	2509	3298	3728
75	3608	3137	2396	1753	785	396	247	126	77	132	254	411	937	1964	2462	3282	3608
76	3555	3093	2352	1781	692	375	231	115	71	120	236	393	834	1946	2403	3206	3555
77	3494	3001	2255	1731	607	353	218	105	65	110	221	371	743	1836	2319	3118	3494
78	3397	2955	2164	1658	538	333	204	95	59	99	206	349	650	1735	2260	3052	3397
79	3341	2868	2136	1561	478	313	190	85	54	89	190	328	573	1637	2215	2964	3341
80	3282	2775	2075	1464	427	291	176	76	50	80	179	308	504	1561	2132	2862	3282
81	3125	2687	2002	1367	383	272	162	68	45	71	166	286	445	1486	2077	2774	3125
82	3037	2586	1937	1282	343	254	147	59	40	61	153	269	389	1424	2015	2663	3037
83	2962	2474	1856	1202	309	238	134	51	36	52	139	251	345	1316	1937	2554	2962
84	2798	2389	1793	1115	280	223	122	44	32	44	126	234	311	1230	1862	2473	2798
85	2754	2299	1740	1030	256	208	108	37	28	36	115	219	280	1165	1790	2367	2754
86	2610	2190	1654	958	237	195	96	30	23	29	103	206	253	1083	1721	2273	2610
87	2504	2118	1580	886	222	181	85	23	18	20	91	192	228	1007	1644	2162	2504
88	2440	2001	1506	817	210	169	71	16	12	12	78	179	209	933	1567	2044	2440
89	2356	1904	1414	746	201	158	58	8	8	7	66	168	196	865	1491	1968	2356
90	2277	1821	1348	685	193	149	52	7	8	7	62	157	188	787	1424	1871	2277
91	2214	1747	1266	624	187	140	49	7	8	7	57	148	181	720	1360	1797	2214
92	2088	1669	1200	567	181	132	46	8	9	7	53	139	175	660	1289	1722	2088
93	1907	1584	1128	516	173	125	43	8	9	7	50	130	169	602	1211	1650	1907
94	1841	1499	1066	470	165	120	40	8	9	8	47	124	163	550	1138	1557	1841
95	1710	1414	1007	432	158	114	37	8	9	8	44	120	155	502	1071	1464	1710

96	1604	1358	940	394	151	109	34	8	9	8	41	115	149	459	1001	1398	1604
97	1499	1261	857	366	145	105	32	8	9	8	39	110	143	423	929	1287	1499
98	1393	1178	808	341	139	100	31	8	10	8	37	105	137	391	867	1200	1393
99	1287	1092	743	321	134	95	29	9	10	8	35	100	132	365	805	1114	1287
100	1192	1018	687	301	130	90	27	9	10	8	33	96	127	339	742	1035	1192
101	1077	946	635	279	125	85	25	9	10	9	31	91	123	316	684	965	1077
102	983	879	586	264	121	81	23	9	10	9	29	87	120	295	634	892	983
103	885	807	538	247	116	77	21	9	10	9	27	83	117	276	584	825	885
104	799	747	497	231	111	73	20	9	10	9	26	79	114	259	536	760	799
105	718	688	454	217	107	69	19	10	11	9	24	74	111	243	492	699	718
106	646	633	417	204	102	65	18	10	11	9	22	70	108	228	453	643	646
107	565	582	387	191	99	61	16	10	11	9	21	66	104	215	418	594	565
108	482	537	360	179	97	57	15	10	11	9	20	62	100	202	390	548	482
109	415	495	335	169	94	54	14	10	11	9	18	59	96	190	364	506	415
110	370	461	314	158	91	50	13	10	11	9	17	55	93	179	341	470	370
111	336	430	294	148	88	47	12	10	11	9	15	52	90	169	319	440	336
112	306	404	277	139	85	45	11	10	11	10	14	49	87	159	299	416	306
113	279	384	264	131	82	42	11	10	11	10	14	46	84	148	283	393	279
114	265	366	251	123	79	39	10	10	11	10	13	43	81	140	270	376	265
115	258	350	241	116	76	36	10	10	11	10	12	41	79	133	259	359	258
116	252	333	232	110	73	34	9	10	11	10	11	38	76	125	249	343	252
117	249	318	224	104	71	32	9	10	11	10	10	36	73	118	240	328	249
118	247	304	216	98	68	30	9	10	11	10	10	33	71	111	231	314	247
119	244	290	208	91	65	27	8	10	11	10	9	31	69	104	222	301	244
120	239	278	199	86	62	26	8	10	11	10	9	29	66	97	213	289	239
121	234	270	189	81	59	24	8	10	11	10	8	27	64	90	204	282	234
122	229	265	181	76	56	23	8	10	11	10	8	25	61	84	195	275	229
123	223	257	172	71	53	21	8	10	11	10	8	24	58	78	187	268	223
124	217	249	163	67	50	19	8	10	11	10	8	22	55	73	178	261	217
125	212	241	154	64	46	18	8	9	11	10	8	21	52	67	169	253	212
126	205	234	144	60	43	17	8	9	11	10	8	20	49	63	160	246	205
127	198	226	135	56	40	16	8	9	11	10	8	18	46	59	150	239	198
128	191	218	126	53	38	15	8	9	11	10	8	17	43	56	141	230	191
129	182	209	116	50	35	14	8	9	11	10	8	16	40	52	132	221	182
130	175	199	107	46	33	13	8	9	11	10	8	15	37	49	122	211	175
131	167	188	96	43	31	12	8	9	11	10	8	14	35	46	112	200	167
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133	150	164	76	37	26	11	8	9	10	10	8	13	30	40	92	176	150
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180	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[TESTDATE] 2017-11-08  
[TESTLAB] EVERFINE  
[ISSUE DATE] 2018-02-25 17:19:34  
[MANUFAC] SARN Energy Inc  
[LUMINAIRE] SES-SWP-4000-120 277V  
[\_LAMPPOSITION] 0,0  
[\_TOTALLUMINAIRELUMENS] 15158.3  
[OTHER] EVERFINE GO-R5000\_V2 SYSTEMGamma(deg) Fz(lm) Ft(lm) %Lum %Lamp0- 10 427.32  
427.32 2.82 2.8210- 20 1204.63 1631.94 10.77 10.7720- 30 1765.79 3397.73 22.42  
22.4230- 40 2087.85 5485.58 36.19 36.1940- 50 2185.73 7671.32 50.62 50.6250- 60  
2100.07 9771.39 64.47 64.4760- 70 1847.42 11618.80 76.66 76.6670- 80 1459.12  
13077.92 86.29 86.2980- 90 984.54 14062.46 92.78 92.7890-100 568.02 14630.48 96.53  
96.53100-110 268.00 14898.48 98.30 98.30110-120 127.16 15025.64 99.14 99.14120-130  
75.62 15101.26 99.64 99.64130-140 35.99 15137.24 99.88 99.88140-150 10.09 15147.33  
99.94 99.94150-160 4.44 15151.77 99.97 99.97160-170 3.00 15154.77 99.99 99.99170-  
180 1.27 15156.05 100.00 100.00

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.