

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** SP06-500W-120V

**Lamp Output:** 1 lamp, rated Lumens/lamp: 26628.5

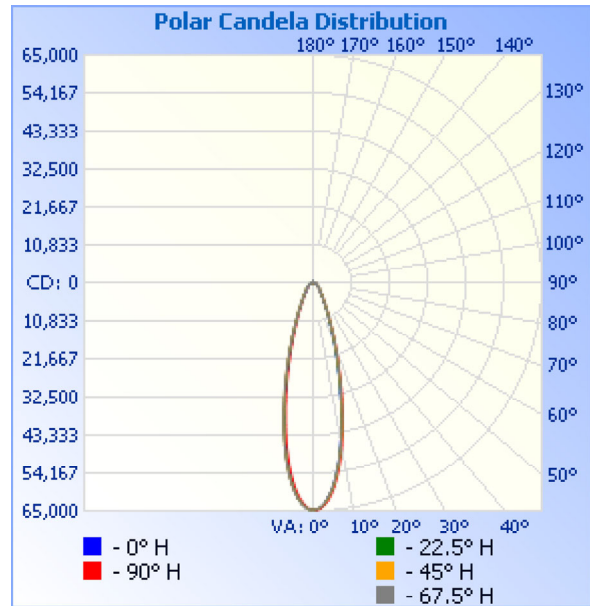
**Max Candela:** 64,735.4 at Horizontal: 90°, Vertical: 1°

**Input Wattage:** 517.2

**Luminous Opening:** Point

**Photometry :** Type C

**Nema Type:** 4 X 4



### Roadway Summary

Cutoff Classification:	SEMICUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	9.8	
Max Cd, 80 to <90 Deg:	290.6	
	Lumens	% Lamp
Downward Street Side:	12,899.8	48.4%
Downward House Side:	13,497.0	50.7%
Downward Total:	26,396.8	99.1%
Upward Street Side:	130.7	0.5%
Upward House Side:	101.0	0.4%
Upward Total:	231.7	0.9%
<b>Total Lumens:</b>	<b>26,628.5</b>	<b>100%</b>

### Flood Summary

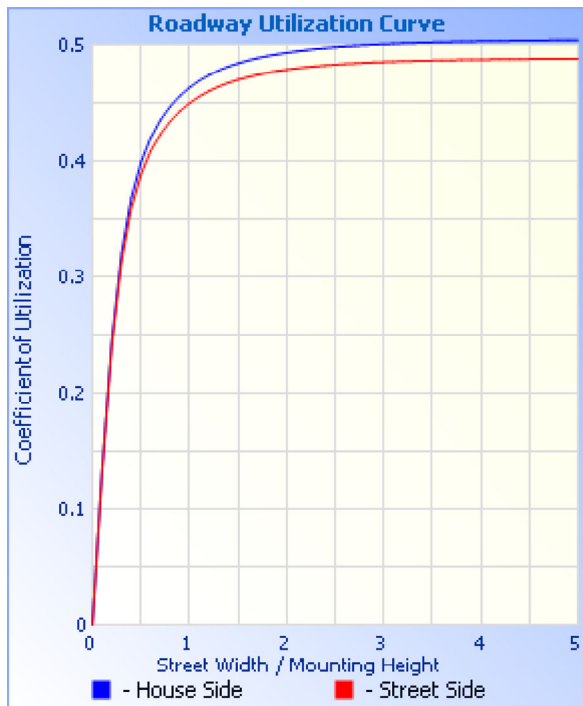
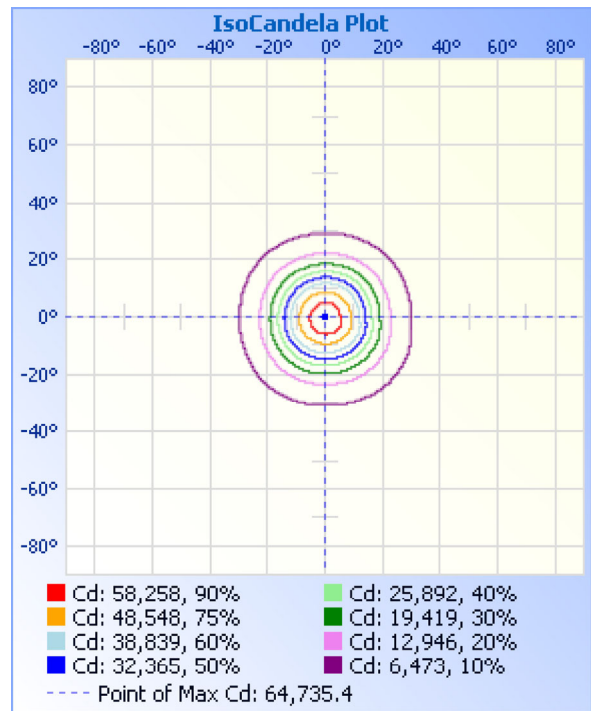
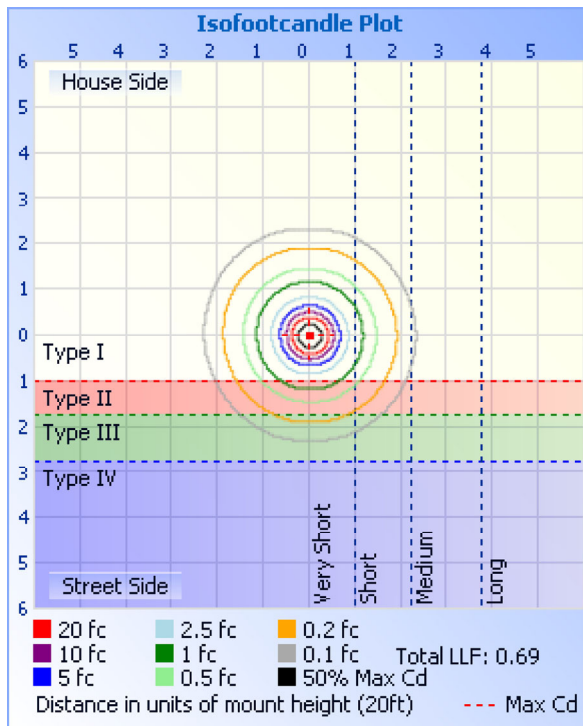
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	69.6%	18,536.3	59.5	60
Beam (50%):	34.2%	9,114.5	28.3	28.3
<b>Total:</b>	<b>99.9%</b>	<b>26,598.0</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	18,444.3	69.3%	69.3%
0-40	21,281.9	79.9%	80%
0-60	24,746.6	92.9%	93%
60-90	1,635.4	6.1%	6.1%
70-100	621.0	2.3%	2.3%
90-120	24.4	0.1%	0.1%
0-90	26,382.0	99.1%	99.1%
90-180	231.6	0.9%	0.9%
0-180	26,613.6	99.9%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	5,235.4	19.7%	90-100	4.6	0%
10-20	8,258.8	31.0%	100-110	7.8	0%
20-30	4,950.1	18.6%	110-120	12.0	0%
30-40	2,837.6	10.7%	120-130	19.5	0.1%
40-50	1,994.4	7.5%	130-140	33.5	0.1%
50-60	1,470.3	5.5%	140-150	50.5	0.2%
60-70	1,019.0	3.8%	150-160	54.1	0.2%
70-80	532.5	2.0%	160-170	37.2	0.1%
80-90	83.9	0.3%	170-180	12.3	0%



	Center Beam fc	Beam Width	
16.7ft	232 fc	8.4 ft	8.4 ft
33.3ft	58.4 fc	16.8 ft	16.8 ft
50.0ft	25.9 fc	25.2 ft	25.2 ft
66.7ft	14.5 fc	33.7 ft	33.6 ft
83.3ft	9.33 fc	42.0 ft	42.0 ft
100.0ft	6.47 fc	50.5 ft	50.4 ft

■ Vert. Spread: 28.3°  
■ Horiz. Spread: 28.3°

**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	0	50	30	20	0	50	30	20	0	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	.99	
1	1.13	1.10	1.07	1.04	1.10	1.07	1.05	.92	1.03	1.01	.99	.99	.98	.96	.96	.96	.94	.94	.93	.91	
2	1.07	1.01	.97	.93	1.04	.99	.96	.85	.96	.93	.90	.93	.90	.88	.88	.90	.88	.88	.86	.84	
3	1.01	.94	.89	.85	.99	.93	.88	.79	.90	.86	.83	.87	.84	.81	.81	.85	.82	.80	.80	.78	

4	.96	.88	.82	.78	.94	.87	.82	.74	.85	.80	.76	.82	.79	.75	.81	.77	.74	.73
5	.91	.83	.77	.72	.90	.82	.76	.70	.80	.75	.71	.78	.74	.71	.77	.73	.70	.68
6	.87	.78	.72	.68	.86	.77	.72	.66	.76	.71	.67	.74	.70	.67	.73	.69	.66	.65
7	.83	.74	.68	.64	.82	.73	.68	.62	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8	.80	.71	.65	.61	.79	.70	.64	.59	.69	.64	.60	.68	.63	.60	.67	.63	.60	.58
9	.77	.67	.62	.58	.76	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.56
10	.74	.64	.59	.55	.73	.64	.59	.54	.63	.58	.55	.62	.58	.55	.62	.57	.54	.53

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	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731	64731
1	64489	64470	64492	64473	64735	64638	64612	64526	64536	64556	64534	64503	64308	64365	64375	64463	64489
2	63868	63884	63903	63831	64272	64135	64079	64051	63958	63908	63913	63911	63522	63606	63657	63769	63868
3	62792	62867	62848	62753	63360	63224	63074	63014	62875	62919	62910	63004	62215	62345	62488	62669	62792
4	61266	61370	61386	61249	62001	61884	61770	61606	61483	61483	61510	61595	60626	60662	60857	61083	61266
5	59440	59550	59597	59467	60312	60163	60016	59891	59715	59666	59766	59803	58551	58721	58963	59168	59440
6	57221	57371	57456	57193	58162	58000	57807	57704	57621	57575	57717	57745	56194	56330	56690	57005	57221
7	54507	54684	54914	54662	55771	55551	55389	55255	55019	55128	55287	55331	53516	53703	54083	54266	54507
8	51737	51934	52086	51967	53053	52741	52788	52525	52259	52407	52541	52669	50545	50742	51202	51476	51737
9	48589	48780	49069	48957	50075	49935	49849	49653	49364	49437	49641	49814	47557	47758	48121	48498	48589
10	45448	45692	45990	45986	47036	46738	46684	46485	46287	46270	46602	46718	44295	44449	45027	45248	45448
11	41981	42225	42799	42700	43768	43645	43610	43396	42995	42998	43369	43625	41065	41233	41711	42050	41981
12	38633	38876	39526	39492	40483	40399	40483	40276	39843	39873	40282	40432	37801	37996	38646	38769	38633
13	35376	35458	36211	36366	37272	37229	37328	36936	36444	36645	36984	37151	34496	34648	35377	35407	35376
14	32076	32328	33020	33208	34046	34087	34225	33825	33296	33321	33999	34032	31444	31604	32205	32350	32076
15	29094	29315	30057	30340	31016	31124	31300	30850	30345	30324	30871	31215	28407	28543	29290	29234	29094
16	26198	26347	27142	27500	28005	28172	28382	27913	27417	27534	28092	28252	25634	25784	26485	26435	26198
17	23437	23678	24459	24690	25218	25441	25689	25220	24735	24848	25394	25507	23000	23138	23894	23780	23437
18	21082	21309	22084	22264	22652	22904	23176	22738	22296	22378	22882	22976	20611	20868	21436	21325	21082
19	18917	19037	19785	20048	20313	20571	20910	20462	20053	20169	20616	20677	18511	18645	19191	19172	18917
20	16895	17109	17808	17935	18149	18378	18751	18364	18078	18123	18495	18539	16547	16732	17290	17127	16895
21	15171	15380	16015	16102	16267	16511	16795	16537	16215	16338	16681	16687	14872	15002	15444	15386	15171
22	13596	13789	14361	14446	14538	14786	15152	14827	14637	14700	15005	14990	13338	13460	13922	13795	13596
23	12194	12373	12891	12947	12967	13254	13543	13320	13096	13235	13461	13468	11976	12073	12488	12365	12194
24	10990	11130	11595	11686	11642	11913	12191	12003	11809	11950	12165	12162	10828	10858	11210	11150	10990
25	9890	10083	10496	10588	10505	10710	11025	10872	10712	10800	11050	11009	9815	9845	10153	10098	9890
26	8958	9096	9508	9540	9505	9653	9944	9816	9673	9771	10021	9951	8862	8890	9164	9107	8958
27	8117	8249	8623	8638	8592	8744	9015	8898	8754	8904	9115	9051	8051	8090	8318	8271	8117
28	7383	7523	7832	7858	7794	7967	8197	8116	8003	8126	8305	8247	7362	7406	7614	7562	7383
29	6752	6858	7143	7146	7105	7251	7472	7391	7293	7414	7593	7522	6726	6768	6946	6904	6752
30	6184	6299	6564	6545	6482	6604	6827	6795	6681	6801	6994	6903	6173	6209	6384	6325	6184
31	5701	5799	6044	6013	5951	6063	6279	6267	6181	6284	6427	6364	5710	5716	5884	5855	5701
32	5250	5343	5556	5525	5464	5574	5770	5789	5706	5809	5932	5873	5278	5270	5424	5404	5250
33	4840	4935	5116	5083	5041	5134	5317	5339	5281	5400	5494	5427	4910	4883	5004	4979	4840
34	4484	4575	4736	4695	4669	4739	4905	4979	4899	5018	5094	5031	4564	4533	4634	4627	4484
35	4162	4245	4385	4346	4337	4380	4549	4634	4552	4681	4750	4677	4278	4218	4288	4316	4162
36	3875	3972	4086	4048	4048	4072	4219	4326	4231	4368	4432	4349	4014	3946	3997	4029	3875
37	3609	3723	3810	3777	3796	3810	3921	4061	3933	4080	4146	4071	3798	3698	3736	3776	3609
38	3394	3502	3619	3554	3591	3566	3662	3817	3677	3844	3897	3840	3605	3483	3489	3554	3394
39	3192	3312	3388	3339	3391	3381	3456	3588	3465	3600	3683	3647	3421	3297	3293	3369	3192
40	3016	3137	3216	3173	3232	3177	3248	3412	3263	3440	3502	3429	3271	3128	3120	3195	3016
41	2870	2992	3067	3023	3066	3012	3086	3234	3097	3270	3335	3251	3091	2980	2968	3043	2870
42	2746	2859	2927	2885	2914	2875	2937	3072	2941	3110	3181	3098	2937	2854	2840	2894	2746
43	2636	2728	2788	2760	2762	2755	2809	2922	2811	2967	3037	2958	2798	2736	2721	2754	2636
44	2538	2613	2664	2650	2632	2643	2698	2778	2694	2834	2900	2830	2653	2627	2605	2631	2538
45	2441	2492	2537	2537	2500	2530	2586	2648	2587	2699	2761	2710	2525	2516	2491	2510	2441
46	2348	2386	2418	2424	2387	2425	2468	2525	2482	2585	2626	2592	2402	2411	2387	2397	2348

47	2253	2285	2316	2324	2282	2309	2359	2411	2382	2467	2510	2482	2291	2300	2278	2291	2253
48	2163	2189	2211	2221	2177	2205	2252	2305	2290	2359	2393	2371	2191	2191	2178	2197	2163
49	2073	2093	2112	2121	2080	2112	2152	2197	2195	2253	2286	2271	2093	2101	2086	2095	2073
50	1985	2012	2025	2028	1991	2022	2060	2103	2109	2155	2184	2173	2005	2001	1991	2009	1985
51	1892	1926	1935	1935	1900	1936	1968	2013	2014	2061	2087	2073	1912	1908	1901	1919	1892
52	1804	1832	1838	1830	1812	1846	1880	1924	1924	1977	1992	1980	1821	1818	1816	1830	1804
53	1736	1788	1773	1767	1723	1760	1797	1837	1834	1894	1905	1885	1739	1727	1719	1748	1736
54	1653	1687	1689	1684	1650	1683	1721	1748	1775	1812	1806	1817	1648	1665	1657	1671	1653
55	1580	1610	1607	1602	1584	1611	1640	1690	1690	1748	1748	1717	1598	1574	1576	1591	1580
56	1507	1539	1535	1527	1509	1530	1567	1613	1617	1672	1669	1634	1525	1500	1503	1522	1507
57	1439	1468	1465	1456	1443	1461	1491	1546	1546	1596	1589	1554	1455	1428	1432	1456	1439
58	1370	1401	1398	1389	1380	1389	1427	1478	1483	1527	1517	1476	1384	1359	1363	1391	1370
59	1309	1340	1341	1321	1316	1322	1363	1420	1414	1458	1455	1409	1321	1292	1299	1326	1309
60	1246	1276	1278	1258	1259	1259	1308	1360	1353	1401	1388	1339	1261	1231	1237	1271	1246
61	1187	1219	1224	1206	1205	1199	1245	1304	1290	1342	1331	1273	1205	1171	1180	1213	1187
62	1131	1167	1169	1143	1152	1141	1190	1254	1236	1280	1273	1211	1152	1118	1128	1162	1131
63	1070	1111	1117	1088	1098	1092	1143	1201	1180	1229	1216	1161	1102	1069	1076	1109	1070
64	1017	1061	1065	1038	1057	1039	1088	1160	1127	1175	1166	1103	1057	1016	1026	1059	1017
65	963	1007	1017	985	1009	988	1036	1102	1070	1125	1117	1048	1007	967	974	1008	963
66	912	960	968	935	959	937	988	1051	1017	1076	1065	998	959	918	927	957	912
67	866	911	918	895	911	888	936	998	963	1027	1015	945	911	867	872	909	866
68	814	867	873	835	864	835	887	952	914	975	960	900	861	823	827	866	814
69	771	818	818	782	816	795	839	902	870	923	908	845	816	767	775	813	771
70	722	768	766	729	768	740	782	851	822	884	861	790	766	714	725	764	722
71	673	719	711	674	709	686	730	798	771	822	801	737	711	663	671	714	673
72	612	660	659	622	657	638	678	745	719	766	744	679	655	614	621	663	612
73	551	593	604	572	602	587	623	692	656	709	689	629	598	561	574	600	551
74	495	529	550	521	541	536	569	629	585	638	629	572	539	512	524	535	495
75	446	470	495	469	489	482	519	562	532	571	575	524	486	461	474	473	446
76	395	419	438	419	439	431	467	492	483	507	515	469	434	410	424	417	395
77	344	360	373	368	386	385	417	436	427	451	460	419	384	362	370	362	344
78	293	303	318	318	339	336	365	381	373	396	395	368	336	313	311	313	293
79	249	261	269	271	289	288	308	328	327	342	341	318	286	267	261	263	249
80	205	214	216	223	245	243	258	280	278	291	289	271	239	225	216	210	205
81	166	170	172	183	200	204	213	229	232	241	239	226	198	181	173	164	166
82	132	128	132	138	159	162	171	181	188	195	189	183	155	146	133	123	132
83	95	91	99	105	120	128	130	137	151	150	149	143	116	111	102	87	95
84	61	59	67	73	86	95	95	99	110	111	112	105	80	79	64	55	61
85	34	32	40	38	55	58	64	63	66	71	75	68	50	46	40	31	34
86	12	15	15	15	23	30	28	31	32	32	40	33	23	19	14	12	12
87	7	5	2	3	5	7	7	7	10	2	12	10	5	5	0	2	7
88	7	7	5	5	2	5	2	2	7	5	2	3	5	5	0	2	7
89	10	5	5	0	0	5	2	5	7	5	2	3	2	5	2	2	10
90	10	5	2	0	0	2	5	2	5	0	0	0	2	5	2	2	10
91	10	2	5	3	0	2	2	2	7	5	2	0	5	2	5	2	10
92	10	5	5	3	0	2	0	0	7	2	2	3	2	5	2	2	10
93	10	7	5	5	0	7	2	0	7	0	2	0	0	0	5	2	10
94	10	5	5	3	2	5	2	2	5	5	2	3	5	5	5	2	10
95	10	5	5	5	2	2	0	2	10	7	2	3	5	5	5	5	10

96	10	5	5	3	2	5	2	2	10	5	2	3	5	5	5	5	10
97	12	7	5	0	2	5	2	0	7	5	2	3	2	5	5	5	12
98	12	7	7	5	2	5	5	2	7	5	2	5	5	5	7	5	12
99	10	7	7	3	5	5	2	5	10	5	5	3	5	7	2	5	10
100	12	7	5	5	5	5	2	2	10	2	2	0	7	9	7	5	12
101	12	10	5	8	0	5	5	2	10	5	2	0	7	7	7	7	12
102	12	10	7	5	5	7	5	2	5	5	5	0	5	7	5	7	12
103	15	7	7	5	5	5	5	5	12	7	5	5	5	7	7	7	15
104	12	7	7	8	5	5	5	2	12	7	5	3	7	7	7	10	12
105	15	10	7	8	5	7	7	5	7	7	5	5	7	9	7	7	15
106	15	10	7	8	2	7	7	5	12	5	7	5	2	9	9	10	15
107	17	12	7	8	7	7	5	5	12	7	7	5	9	9	7	10	17
108	17	12	10	10	7	7	7	7	12	10	5	5	7	9	9	7	17
109	17	15	10	10	5	9	7	7	12	7	5	5	9	9	12	10	17
110	17	12	12	8	7	9	7	5	12	7	7	8	9	12	9	12	17
111	17	15	12	10	5	7	9	7	15	5	7	8	9	12	12	10	17
112	20	12	10	10	7	9	7	5	12	10	10	8	11	14	12	7	20
113	17	15	12	13	9	9	9	7	15	10	5	8	11	14	12	12	17
114	17	15	15	10	7	9	9	7	15	10	7	8	11	12	12	14	17
115	17	15	12	13	9	12	9	7	15	7	10	10	14	14	14	12	17
116	20	17	15	13	9	12	9	10	15	10	10	8	14	14	14	14	20
117	20	17	17	15	5	12	12	10	17	12	12	10	11	16	12	14	20
118	22	20	15	15	9	12	12	12	17	15	10	13	16	16	14	14	22
119	24	17	15	15	11	14	12	10	15	10	12	10	16	16	17	17	24
120	22	20	17	18	11	14	9	10	17	15	12	10	16	19	17	17	22
121	24	20	20	18	11	12	14	14	17	15	12	13	16	21	19	19	24
122	24	22	20	18	11	16	14	12	20	15	17	13	18	21	21	19	24
123	27	22	22	20	16	14	17	12	20	20	15	13	20	21	21	22	27
124	27	25	22	23	14	16	17	17	22	17	17	18	20	23	21	24	27
125	29	27	25	23	18	19	17	14	22	22	17	15	23	26	24	27	29
126	32	27	27	25	16	19	17	17	22	20	17	18	25	28	26	29	32
127	32	30	30	25	18	19	21	22	27	22	20	18	27	28	28	29	32
128	34	32	30	30	20	21	21	22	27	22	22	20	27	30	28	31	34
129	37	34	35	30	23	23	24	22	24	25	25	23	27	32	33	34	37
130	41	37	37	35	23	26	26	22	29	25	22	25	32	32	36	36	41
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132	46	39	42	43	27	30	28	29	34	32	27	28	39	39	40	41	46
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135	56	52	50	50	34	35	33	34	41	37	35	33	48	53	50	51	56
136	59	57	52	53	34	37	36	39	44	39	37	35	50	53	52	53	59
137	63	59	60	58	39	42	40	39	46	44	40	38	57	58	55	58	63
138	68	64	62	63	41	42	43	43	49	47	42	40	59	60	62	63	68
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141	83	79	77	75	50	53	52	51	61	54	50	53	73	77	73	75	83
142	88	84	77	80	55	58	55	53	66	59	55	53	77	81	76	82	88
143	95	86	85	83	59	58	59	60	71	62	60	60	82	86	83	84	95
144	100	91	92	90	61	63	62	63	73	64	62	60	86	88	88	89	100

145	105	96	95	95	64	65	64	68	76	69	67	65	93	95	92	94	105
146	110	103	99	100	70	70	71	70	83	74	70	70	95	100	97	99	110
147	112	106	104	108	75	74	73	75	85	74	72	75	102	102	102	104	112
148	117	111	107	105	75	79	78	77	88	79	77	75	107	107	107	109	117
149	122	116	112	113	80	83	78	80	90	86	82	80	111	109	111	113	122
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154	141	138	129	133	95	100	100	99	107	98	97	98	132	130	130	133	141
155	144	138	137	135	100	102	102	101	110	103	102	100	134	137	133	133	144
156	144	140	137	138	100	104	102	106	112	108	104	103	134	137	137	135	144
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163	151	145	144	145	116	121	116	121	127	121	117	120	141	146	142	145	151
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167	146	143	142	143	118	118	119	123	124	123	119	118	139	141	142	140	146
168	144	143	139	140	118	123	121	118	127	123	122	120	139	141	140	137	144
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175	137	131	132	130	123	123	123	123	129	126	122	123	132	132	128	130	137
176	137	133	129	130	125	125	123	123	129	126	124	120	130	130	128	130	137
177	134	131	127	128	125	125	126	125	132	126	124	123	130	128	126	128	134
178	134	131	127	128	127	125	123	125	132	126	124	125	127	128	126	128	134
179	137	128	127	128	127	128	123	128	137	128	127	128	127	125	126	125	137
180	132	126	129	128	130	128	128	125	134	131	129	694	125	125	126	125	132

**Luminaire Report Summary**

IESNA:LM-63-2002  
[TEST]  
[ISSUEDATE] 2022/8/2 20:06 j  
[MANUFAC]  
[LUMCAT]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[\_VOLTAGE] 277.6 V  
[\_CURRENT] 1.994 A  
[\_POWERFACTOR] 0.934  
[TESTLAB]  
[\_TESTINST] GPM-1800B  
[\_TESTDIST] 8.190 m  
[\_TESTTEMPERATURE]  
[\_TESTHUMIDITY]  
[\_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]  
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.