

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **GFLD-SA4D-730-U-MWR-VSR-XX**

Issue Date: 12/7/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2210-813-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 12/7/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GFLD-SA4D-730-U-MWR-VSR-XX  
Description: GALLEON FLOOD, FOUR LIGHT SQAURE, MEDIUM WIDE SYMMETRICAL ROUND N5 WITH VISOR  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26045.1 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')

NEMA Type: 4H x 5V  
Max Intensity: 36488.8 candela  
Max Intensity Angle: 0°H x -12.5°V

Beam Angle (50%): 46.4°H x 49.6°V  
Beam Lumens: 17444.9 lumens  
Beam Efficiency: 67.0%

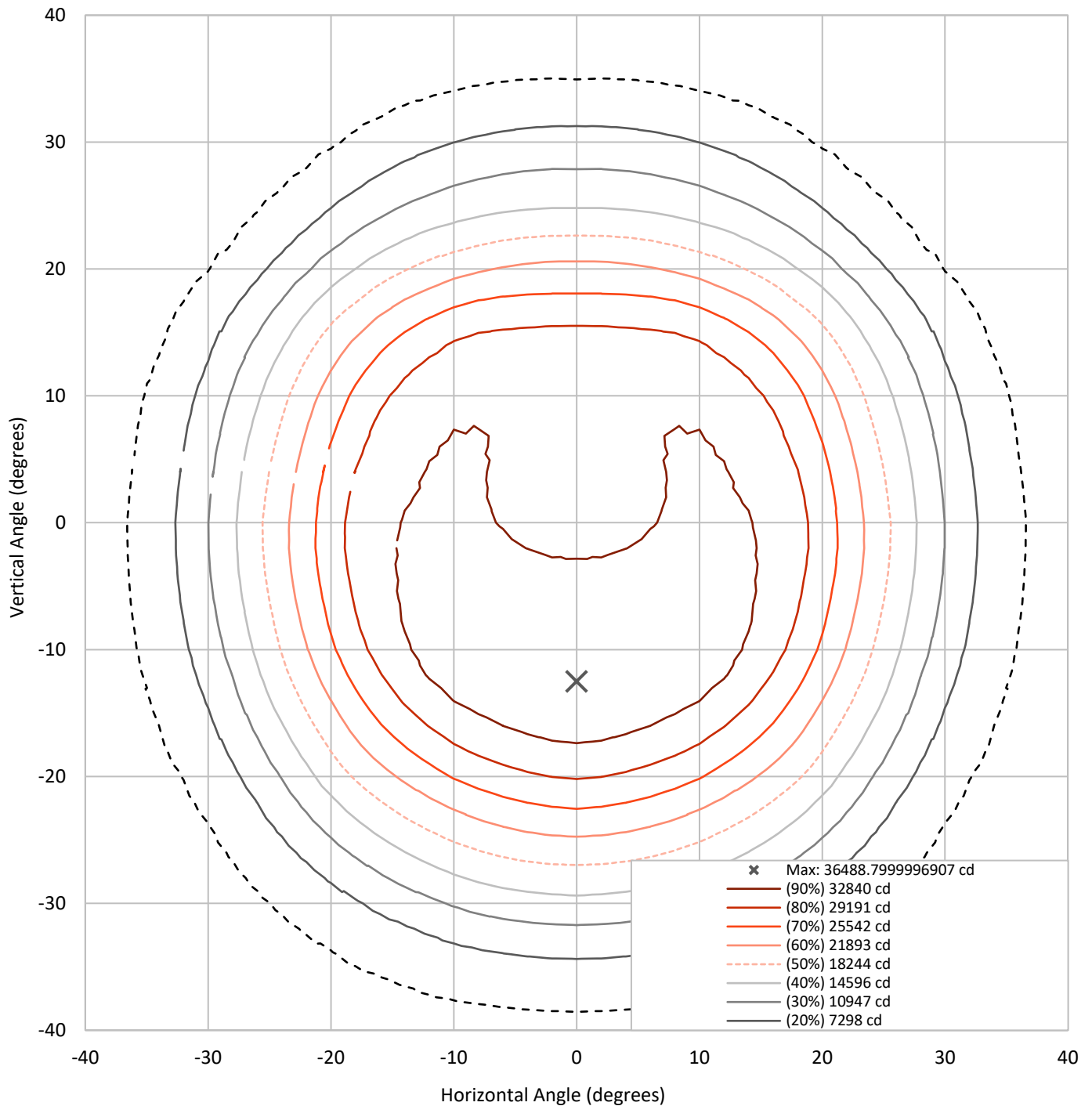
Field Angle (10%): 69.9°H x 73.3°V  
Field Lumens: 23488.1 lumens  
Field Efficiency: 90.2%

Input Watts (W): 221.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot





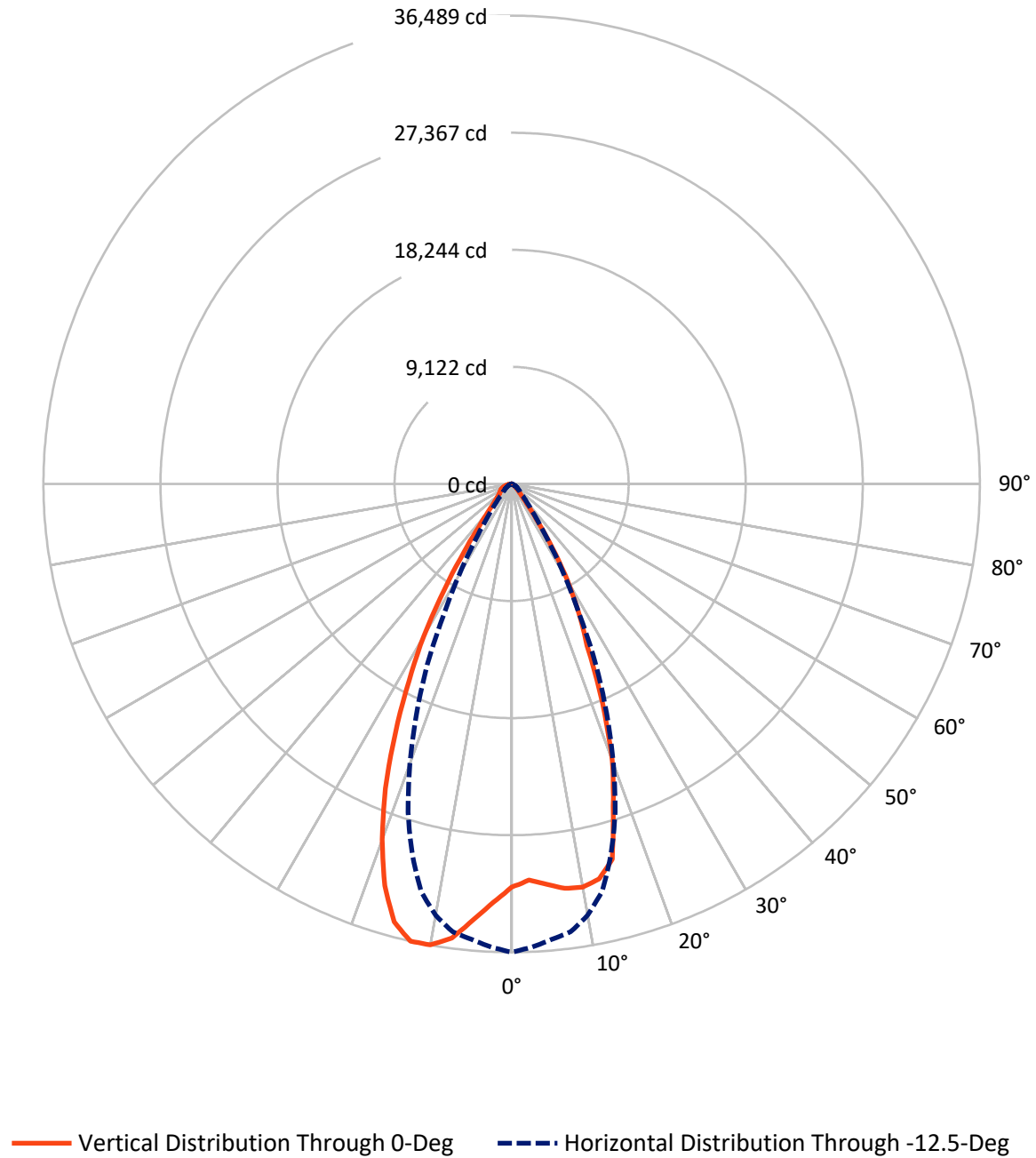
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### Lumen Table

90																								
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
70																								
60	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1									
50		0.1	0.2	0.8	2.1	3.6	5.0	5.8	5.8	5.0	3.6	2.1	0.8	0.2		0.1								
40	0.1	0.2	1.0	3.7	7.3	12.0	17.9	21.9	21.9	17.9	12.0	7.3	3.7	1.0	0.2	0.1								
30		0.5	2.9	7.5	15.6	33.8	76.9	117.4	117.4	76.9	33.8	15.6	7.5	2.9	0.5									
20	0.3	1.0	4.9	12.2	32.7	121.1	311.8	435.8	435.8	311.8	121.1	32.7	12.2	4.9	1.0	0.3								
10		1.7	6.8	18.8	77.8	336.2	701.4	868.4	868.4	701.4	336.2	77.8	18.8	6.8	1.7									
0	0.5	2.3	8.4	24.2	123.8	495.1	904.3	980.4	980.4	904.3	495.1	123.8	24.2	8.4	2.3	0.5								
-10		2.7	9.3	26.0	129.6	511.4	936.9	1040.6	1040.6	936.9	511.4	129.6	26.0	9.3	2.7									
-20	0.7	2.9	9.4	23.6	92.7	380.7	790.4	1009.2	1009.2	790.4	380.7	92.7	23.6	9.4	2.9	0.7								
-30		2.8	8.9	19.6	51.8	184.7	440.4	619.7	619.7	440.4	184.7	51.8	19.6	8.9	2.8									
-40	0.7	2.4	8.0	16.3	30.9	65.8	137.6	204.2	204.2	137.6	65.8	30.9	16.3	8.0	2.4	0.7								
-50		2.0	6.7	13.6	22.6	33.4	46.9	55.7	55.7	46.9	33.4	22.6	13.6	6.7	2.0									
-60	0.5	1.5	5.0	10.7	17.8	24.6	30.7	33.6	33.6	30.7	24.6	17.8	10.7	5.0	1.5	0.5								
-70		1.1	3.2	7.3	12.5	17.6	22.3	24.9	24.9	22.3	17.6	12.5	7.3	3.2	1.1									
-80	0.2	2.9	13.1	27.9	35.8	27.9	13.1	2.9	0.2															
-90																								
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90					

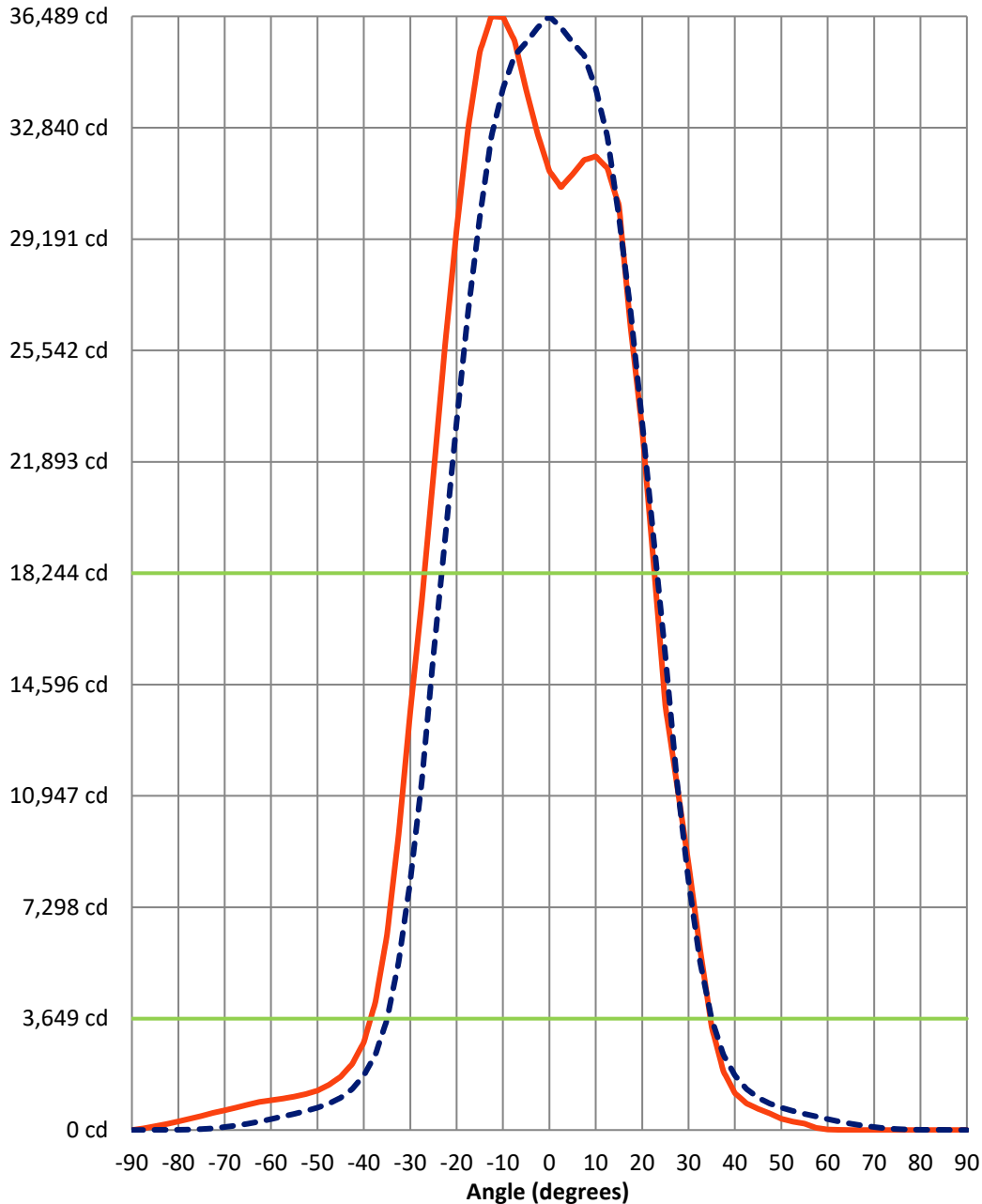
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### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 46.4°  
 V Angle: 49.6°  
 Lumens: 17444.9  
 Efficiency: 67.0%

**Field:**  
 H Angle: 69.9°  
 V Angle: 73.3°  
 Lumens: 23488.1  
 Efficiency: 90.2%

**Spill:**  
 Lumens: 2557  
 Efficiency: 9.8%

— Vertical Distribution through 0-Deg  
 - - Horizontal Distribution through -12.5-Deg

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FIELD  
BEAM

**CANDELA DISTRIBUTION:**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	1	1	0	0	0	0	0
70°	0	0	0	0	1	1	1	0	0	0	0
67.5°	0	0	0	1	2	2	1	0	0	1	1
65°	0	0	0	1	2	2	1	0	1	2	2
62.5°	0	0	0	2	3	2	1	1	3	3	4
60°	0	0	0	3	4	2	1	3	4	4	5
57.5°	0	0	0	3	4	3	2	4	5	5	6
55°	0	0	1	4	4	3	3	6	6	6	6
52.5°	0	0	1	4	4	3	4	6	6	6	6
50°	0	0	2	5	4	4	5	6	6	6	7
47.5°	0	0	2	6	5	4	6	7	6	6	8
45°	0	0	2	6	5	5	7	7	6	7	10
42.5°	0	0	3	6	5	5	7	8	7	9	12
40°	0	0	3	6	5	6	8	8	8	11	14
37.5°	0	0	4	6	5	6	9	8	10	14	16
35°	0	0	4	6	6	6	9	9	12	17	22
32.5°	0	0	4	6	6	7	10	9	14	21	36
30°	0	0	4	6	6	8	10	10	17	26	48
27.5°	0	0	5	6	6	8	11	12	20	32	59
25°	0	0	5	6	6	9	11	14	24	40	69
22.5°	0	0	5	6	6	10	11	16	29	49	82
20°	0	0	5	6	6	10	12	18	34	57	95
17.5°	0	0	5	6	6	11	12	20	39	65	108
15°	0	0	6	6	6	11	13	22	44	71	121
12.5°	0	0	6	6	6	11	14	26	49	77	134
10°	0	0	6	6	6	12	14	31	54	86	146
7.5°	0	0	6	6	6	12	15	35	58	96	155
5°	0	0	6	6	6	12	16	40	61	107	163
2.5°	0	0	6	6	6	12	17	44	63	116	169
0°	0	0	6	6	6	12	18	48	66	126	173
-2.5°	0	0	6	6	7	13	21	50	74	131	183
-5°	0	0	6	6	7	13	24	51	82	136	191
-7.5°	0	0	6	6	8	14	27	52	89	140	198
-10°	0	1	6	6	8	14	29	53	95	144	203
-12.5°	0	1	6	6	8	15	31	54	99	147	207
-15°	0	1	6	6	9	15	33	54	100	148	209
-17.5°	0	1	6	6	9	15	34	56	100	149	208
-20°	0	1	6	6	9	15	34	58	99	148	206

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CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0	1	5	6	9	15	34	60	97	146	201
-25°	0	1	5	6	9	16	34	61	95	143	193
-27.5°	0	1	5	6	9	17	34	60	93	139	189
-30°	0	1	5	6	9	18	33	60	91	135	183
-32.5°	0	1	5	6	9	19	32	58	90	131	176
-35°	0	1	5	6	10	19	32	57	88	127	167
-37.5°	0	1	5	6	10	20	33	55	84	123	164
-40°	0	1	5	6	10	20	33	53	79	117	161
-42.5°	0	1	5	6	10	20	33	50	75	112	156
-45°	0	2	5	6	11	20	32	48	72	105	149
-47.5°	0	1	5	7	11	19	31	47	68	97	140
-50°	0	1	5	7	11	19	30	45	65	93	129
-52.5°	0	1	5	7	11	18	29	43	62	88	118
-55°	0	1	5	7	11	18	28	40	59	82	111
-57.5°	0	1	5	7	11	17	27	38	55	77	103
-60°	0	1	5	7	10	16	25	36	51	71	94
-62.5°	0	1	5	7	10	15	23	34	48	65	87
-65°	0	1	5	7	10	14	22	31	43	59	78
-67.5°	0	1	4	7	10	13	20	28	39	52	69
-70°	0	1	4	7	10	13	17	25	34	45	60
-72.5°	0	1	3	7	9	12	16	21	29	39	50
-75°	0	1	3	6	9	11	15	19	24	32	41
-77.5°	0	1	3	5	8	11	13	17	21	25	32
-80°	0	1	2	4	6	9	12	15	18	22	26
-82.5°	0	0	2	3	5	7	9	12	15	18	21
-85°	0	0	1	2	3	5	6	8	10	13	15
-87.5°	0	0	1	1	2	2	3	4	5	6	8
-90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	1	1	0	0	0	0	0	0	0
67.5°	0	2	2	1	0	0	0	0	0	0	0
65°	3	4	3	2	0	1	2	2	0	0	0
62.5°	6	5	3	2	3	5	4	2	1	1	2
60°	6	5	4	5	6	5	4	4	5	6	14
57.5°	6	6	5	6	7	6	7	9	21	36	40
55°	6	6	7	8	9	10	16	33	50	62	67
52.5°	7	7	9	11	14	23	41	61	77	89	105
50°	8	10	12	17	26	47	70	91	112	131	154
47.5°	10	13	18	26	48	75	102	130	154	181	214
45°	13	19	26	46	74	107	141	172	197	229	258
42.5°	15	29	44	66	105	145	183	209	237	271	309
40°	25	41	63	96	138	186	220	247	277	325	372
37.5°	37	58	83	127	178	224	257	290	333	388	444
35°	50	73	111	160	216	259	296	337	397	459	526
32.5°	64	88	138	194	247	292	334	395	458	527	618
30°	77	111	165	226	275	323	381	450	512	597	704
27.5°	91	134	193	252	302	352	429	495	566	663	792
25°	107	159	218	276	328	391	475	546	619	742	915
22.5°	125	182	243	298	352	432	522	610	706	828	1042
20°	145	203	266	324	377	471	572	680	809	980	1260
17.5°	163	223	288	351	417	513	626	753	915	1127	1539
15°	180	241	309	378	454	556	680	836	1032	1297	1808
12.5°	195	257	330	404	488	595	728	898	1128	1509	2153
10°	209	271	349	429	517	629	769	949	1207	1662	2410
7.5°	220	286	367	452	543	659	805	991	1277	1782	2610
5°	230	304	383	470	562	684	834	1024	1335	1870	2765
2.5°	238	320	396	485	576	703	857	1055	1392	1942	2896
0°	245	335	407	497	586	718	873	1077	1436	1992	2997
-2.5°	254	343	421	506	603	728	881	1093	1450	1999	2977
-5°	261	348	433	513	616	734	883	1099	1448	1984	2915
-7.5°	266	351	441	519	623	738	884	1096	1433	1951	2816
-10°	271	355	444	525	625	737	880	1082	1399	1886	2666
-12.5°	277	359	445	529	625	733	868	1058	1345	1790	2473
-15°	280	361	444	528	622	725	850	1024	1274	1661	2234
-17.5°	282	361	442	523	617	713	825	984	1208	1548	2063
-20°	282	360	440	515	609	701	808	952	1153	1440	1855

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**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	279	357	436	507	598	688	788	914	1083	1318	1654
-25°	273	353	431	503	585	673	762	873	1020	1228	1507
-27.5°	264	346	422	495	570	656	740	840	969	1129	1353
-30°	251	336	410	484	558	638	718	804	916	1056	1235
-32.5°	238	325	398	470	543	620	695	774	871	987	1127
-35°	229	310	384	452	525	599	672	745	825	928	1048
-37.5°	223	295	371	435	504	576	646	716	789	870	979
-40°	216	280	355	420	482	552	619	686	753	835	918
-42.5°	207	270	338	404	463	527	592	655	723	798	877
-45°	198	257	322	383	443	503	565	625	691	762	835
-47.5°	187	242	304	359	417	477	538	597	655	721	792
-50°	173	226	282	335	387	447	506	566	624	680	741
-52.5°	160	206	260	311	359	409	471	532	589	645	698
-55°	144	188	236	287	335	379	432	493	550	604	660
-57.5°	132	169	213	261	309	354	403	455	511	564	618
-60°	122	152	189	234	281	326	373	422	472	523	571
-62.5°	110	136	167	204	248	293	337	383	431	474	518
-65°	100	121	147	177	212	253	296	339	383	421	458
-67.5°	88	107	127	151	181	215	250	289	329	367	402
-70°	76	92	110	130	152	180	212	243	275	309	343
-72.5°	63	78	93	109	129	152	177	203	230	260	289
-75°	52	63	76	90	107	126	146	168	190	213	237
-77.5°	41	51	61	72	84	99	116	133	151	169	188
-80°	31	38	47	56	65	76	87	99	113	127	143
-82.5°	25	30	35	41	47	54	62	70	81	91	102
-85°	18	21	24	27	31	35	40	45	51	58	65
-87.5°	9	10	12	14	15	17	19	21	24	27	31
-90°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	2	2	2	2	1	1	3	4	4	4	5
60°	16	11	15	20	19	14	21	24	22	18	19
57.5°	42	45	52	61	67	71	76	83	87	90	92
55°	77	92	108	116	129	148	165	167	170	174	184
52.5°	123	141	149	164	189	205	213	227	242	256	269
50°	179	194	212	235	259	275	280	305	335	359	373
47.5°	235	255	288	328	349	367	392	423	456	492	519
45°	287	323	365	401	429	459	493	532	584	633	670
42.5°	346	387	429	471	502	553	612	658	732	798	839
40°	415	456	516	568	631	695	797	890	984	1093	1173
37.5°	498	561	646	729	822	918	1099	1284	1435	1646	1764
35°	598	696	816	939	1088	1320	1584	1940	2311	2620	2918
32.5°	714	838	1004	1224	1475	1847	2243	2900	3540	4180	4808
30°	827	1008	1262	1564	1977	2565	3312	4327	5427	6390	7262
27.5°	978	1234	1564	2016	2719	3581	4959	6369	7770	9021	9919
25°	1161	1504	1971	2719	3734	5163	7010	8739	10383	11609	12642
22.5°	1425	1940	2603	3555	5396	7383	9594	11769	13616	15161	16179
20°	1751	2448	3558	5283	7448	9934	12779	15067	17341	19080	20633
17.5°	2214	3323	4889	7081	9668	12983	15913	18465	21352	23129	24713
15°	2630	4056	6288	9085	12116	15630	19085	22210	24997	26950	28721
12.5°	3155	4834	7401	10690	14006	17917	21509	24855	27585	29595	30834
10°	3627	5633	8512	11952	15664	19751	23473	26956	29600	31153	32065
7.5°	4007	6296	9413	13033	16951	21064	24996	28453	30983	32283	32905
5°	4302	6788	10117	13918	17988	22197	26209	29593	31724	32799	33146
2.5°	4523	7130	10592	14501	18688	23033	27130	30465	32283	33058	33173
0°	4672	7371	10901	14867	19288	23333	27628	31015	32744	33366	33426
-2.5°	4637	7284	10887	14734	19219	23468	27708	31050	32900	33736	33872
-5°	4543	7079	10526	14358	18673	22927	26971	30500	32771	34033	34593
-7.5°	4361	6725	9909	13637	17787	22046	26170	29831	32444	34220	35315
-10°	4051	6207	9119	12725	16816	20873	24951	28750	31564	33703	35227
-12.5°	3627	5505	8156	11434	15546	19334	23195	26835	29907	32544	34119
-15°	3191	4774	7155	10155	13734	17465	21032	24604	27636	30102	32066
-17.5°	2879	4134	5996	8621	11764	15304	18784	22065	24801	27119	29180
-20°	2485	3417	4892	7099	9866	12961	16294	19214	21657	23831	25799

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2172	2926	3992	5498	7983	10712	13439	16128	18425	20360	22040
-25°	1887	2417	3249	4474	6091	8447	10745	13015	15136	16935	18448
-27.5°	1664	2085	2640	3512	4739	6114	8127	10025	11848	13493	14920
-30°	1460	1776	2210	2756	3590	4612	5822	7241	8695	9994	11290
-32.5°	1315	1539	1838	2242	2710	3441	4173	5128	6048	6995	7925
-35°	1183	1364	1567	1838	2158	2585	3067	3651	4143	4763	5334
-37.5°	1093	1221	1376	1547	1776	2014	2341	2695	3000	3345	3636
-40°	1019	1119	1224	1339	1497	1657	1868	2067	2261	2471	2628
-42.5°	956	1037	1112	1201	1295	1424	1565	1689	1807	1931	2033
-45°	907	967	1028	1097	1168	1261	1362	1454	1531	1600	1656
-47.5°	854	908	962	1015	1076	1144	1209	1269	1333	1386	1425
-50°	802	856	904	951	1003	1056	1108	1156	1201	1241	1265
-52.5°	752	807	855	897	942	985	1028	1071	1110	1146	1162
-55°	714	764	813	851	888	925	964	1004	1041	1075	1085
-57.5°	671	723	769	805	839	872	908	945	980	1013	1023
-60°	623	677	718	751	786	822	856	889	922	950	961
-62.5°	565	613	651	684	715	745	781	817	851	879	896
-65°	496	538	574	607	638	667	701	733	765	789	807
-67.5°	436	468	499	528	558	587	619	649	679	700	715
-70°	376	406	435	462	488	514	540	566	591	610	624
-72.5°	318	344	368	393	417	440	462	484	505	522	536
-75°	262	285	306	327	347	365	382	399	416	430	442
-77.5°	207	225	243	261	278	293	306	319	332	343	355
-80°	158	172	185	198	211	222	232	242	252	261	270
-82.5°	114	122	131	140	149	156	164	171	178	185	191
-85°	72	77	82	87	92	96	101	105	110	114	118
-87.5°	34	37	39	41	43	46	48	50	52	54	56
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	0
62.5°	5	6	6	6	6	6	5	5	4	4	4
60°	18	18	18	18	18	18	18	19	18	22	24
57.5°	90	84	78	72	78	84	90	92	90	87	83
55°	195	206	211	209	211	206	195	184	174	170	167
52.5°	278	283	282	275	282	283	278	269	256	242	227
50°	380	380	377	371	377	380	380	373	359	335	305
47.5°	533	541	545	544	545	541	533	519	492	456	423
45°	684	692	695	694	695	692	684	670	633	584	532
42.5°	860	874	878	874	878	874	860	839	798	732	658
40°	1219	1234	1227	1209	1227	1234	1219	1173	1093	984	890
37.5°	1847	1907	1932	1932	1932	1907	1847	1764	1646	1435	1284
35°	3185	3399	3497	3374	3497	3399	3185	2918	2620	2311	1940
32.5°	5320	5698	5911	5911	5911	5698	5320	4808	4180	3540	2900
30°	7921	8395	8660	8717	8660	8395	7921	7262	6390	5427	4327
27.5°	10619	11108	11362	11325	11362	11108	10619	9919	9021	7770	6369
25°	13326	13696	13910	13916	13910	13696	13326	12642	11609	10383	8739
22.5°	17325	18104	18425	18511	18425	18104	17325	16179	15161	13616	11769
20°	21684	22439	22927	22956	22927	22439	21684	20633	19080	17341	15067
17.5°	25837	26212	26281	26312	26281	26212	25837	24713	23129	21352	18465
15°	29752	29883	30229	30273	30229	29883	29752	28721	26950	24997	22210
12.5°	31611	31732	31672	31511	31672	31732	31611	30834	29595	27585	24855
10°	32625	32455	32203	31900	32203	32455	32625	32065	31153	29600	26956
7.5°	32854	32666	32221	31780	32221	32666	32854	32905	32283	30983	28453
5°	32963	32411	31849	31314	31849	32411	32963	33146	32799	31724	29593
2.5°	32899	32242	31471	30895	31471	32242	32899	33173	33058	32283	30465
0°	33109	32444	31637	31421	31637	32444	33109	33426	33366	32744	31015
-2.5°	33693	33155	32733	32618	32733	33155	33693	33872	33736	32900	31050
-5°	34744	34626	33909	34078	33909	34626	34744	34593	34033	32771	30500
-7.5°	35760	35592	35289	35681	35289	35592	35760	35315	34220	32444	29831
-10°	36030	35975	36117	36465	36117	35975	36030	35227	33703	31564	28750
-12.5°	35202	35636	36123	36489	36123	35636	35202	34119	32544	29907	26835
-15°	33357	34244	34971	35316	34971	34244	33357	32066	30102	27636	24604
-17.5°	30638	31726	32588	32833	32588	31726	30638	29180	27119	24801	22065
-20°	27291	28398	29182	29495	29182	28398	27291	25799	23831	21657	19214

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	23524	24605	25316	25690	25316	24605	23524	22040	20360	18425	16128
-25°	19702	20651	21282	21448	21282	20651	19702	18448	16935	15136	13015
-27.5°	16046	16810	17275	17326	17275	16810	16046	14920	13493	11848	10025
-30°	12369	13078	13481	13694	13481	13078	12369	11290	9994	8695	7241
-32.5°	8687	9249	9590	9680	9590	9249	8687	7925	6995	6048	5128
-35°	5792	6142	6358	6402	6358	6142	5792	5334	4763	4143	3651
-37.5°	3872	4043	4148	4200	4148	4043	3872	3636	3345	3000	2695
-40°	2744	2824	2868	2878	2868	2824	2744	2628	2471	2261	2067
-42.5°	2098	2139	2160	2166	2160	2139	2098	2033	1931	1807	1689
-45°	1696	1724	1741	1747	1741	1724	1696	1656	1600	1531	1454
-47.5°	1451	1469	1480	1484	1480	1469	1451	1425	1386	1333	1269
-50°	1280	1290	1294	1292	1294	1290	1280	1265	1241	1201	1156
-52.5°	1172	1179	1181	1179	1181	1179	1172	1162	1146	1110	1071
-55°	1092	1097	1098	1095	1098	1097	1092	1085	1075	1041	1004
-57.5°	1031	1037	1035	1029	1035	1037	1031	1023	1013	980	945
-60°	970	978	978	975	978	978	970	961	950	922	889
-62.5°	910	922	924	921	924	922	910	896	879	851	817
-65°	823	838	837	832	837	838	823	807	789	765	733
-67.5°	727	738	738	736	738	738	727	715	700	679	649
-70°	637	648	649	646	649	648	637	624	610	591	566
-72.5°	548	559	562	562	562	559	548	536	522	505	484
-75°	454	464	463	461	463	464	454	442	430	416	399
-77.5°	365	375	374	371	374	375	365	355	343	332	319
-80°	278	286	284	281	284	286	278	270	261	252	242
-82.5°	197	202	200	197	200	202	197	191	185	178	171
-85°	121	125	125	126	125	125	121	118	114	110	105
-87.5°	58	60	57	54	57	60	58	56	54	52	50
-90°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0	0	0
67.5°	0	0	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0	0	2
62.5°	3	1	1	2	2	2	2	2	1	1	2
60°	21	14	19	20	15	11	16	14	6	5	4
57.5°	76	71	67	61	52	45	42	40	36	21	9
55°	165	148	129	116	108	92	77	67	62	50	33
52.5°	213	205	189	164	149	141	123	105	89	77	61
50°	280	275	259	235	212	194	179	154	131	112	91
47.5°	392	367	349	328	288	255	235	214	181	154	130
45°	493	459	429	401	365	323	287	258	229	197	172
42.5°	612	553	502	471	429	387	346	309	271	237	209
40°	797	695	631	568	516	456	415	372	325	277	247
37.5°	1099	918	822	729	646	561	498	444	388	333	290
35°	1584	1320	1088	939	816	696	598	526	459	397	337
32.5°	2243	1847	1475	1224	1004	838	714	618	527	458	395
30°	3312	2565	1977	1564	1262	1008	827	704	597	512	450
27.5°	4959	3581	2719	2016	1564	1234	978	792	663	566	495
25°	7010	5163	3734	2719	1971	1504	1161	915	742	619	546
22.5°	9594	7383	5396	3555	2603	1940	1425	1042	828	706	610
20°	12779	9934	7448	5283	3558	2448	1751	1260	980	809	680
17.5°	15913	12983	9668	7081	4889	3323	2214	1539	1127	915	753
15°	19085	15630	12116	9085	6288	4056	2630	1808	1297	1032	836
12.5°	21509	17917	14006	10690	7401	4834	3155	2153	1509	1128	898
10°	23473	19751	15664	11952	8512	5633	3627	2410	1662	1207	949
7.5°	24996	21064	16951	13033	9413	6296	4007	2610	1782	1277	991
5°	26209	22197	17988	13918	10117	6788	4302	2765	1870	1335	1024
2.5°	27130	23033	18688	14501	10592	7130	4523	2896	1942	1392	1055
0°	27628	23333	19288	14867	10901	7371	4672	2997	1992	1436	1077
-2.5°	27708	23468	19219	14734	10887	7284	4637	2977	1999	1450	1093
-5°	26971	22927	18673	14358	10526	7079	4543	2915	1984	1448	1099
-7.5°	26170	22046	17787	13637	9909	6725	4361	2816	1951	1433	1096
-10°	24951	20873	16816	12725	9119	6207	4051	2666	1886	1399	1082
-12.5°	23195	19334	15546	11434	8156	5505	3627	2473	1790	1345	1058
-15°	21032	17465	13734	10155	7155	4774	3191	2234	1661	1274	1024
-17.5°	18784	15304	11764	8621	5996	4134	2879	2063	1548	1208	984
-20°	16294	12961	9866	7099	4892	3417	2485	1855	1440	1153	952

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	13439	10712	7983	5498	3992	2926	2172	1654	1318	1083	914
-25°	10745	8447	6091	4474	3249	2417	1887	1507	1228	1020	873
-27.5°	8127	6114	4739	3512	2640	2085	1664	1353	1129	969	840
-30°	5822	4612	3590	2756	2210	1776	1460	1235	1056	916	804
-32.5°	4173	3441	2710	2242	1838	1539	1315	1127	987	871	774
-35°	3067	2585	2158	1838	1567	1364	1183	1048	928	825	745
-37.5°	2341	2014	1776	1547	1376	1221	1093	979	870	789	716
-40°	1868	1657	1497	1339	1224	1119	1019	918	835	753	686
-42.5°	1565	1424	1295	1201	1112	1037	956	877	798	723	655
-45°	1362	1261	1168	1097	1028	967	907	835	762	691	625
-47.5°	1209	1144	1076	1015	962	908	854	792	721	655	597
-50°	1108	1056	1003	951	904	856	802	741	680	624	566
-52.5°	1028	985	942	897	855	807	752	698	645	589	532
-55°	964	925	888	851	813	764	714	660	604	550	493
-57.5°	908	872	839	805	769	723	671	618	564	511	455
-60°	856	822	786	751	718	677	623	571	523	472	422
-62.5°	781	745	715	684	651	613	565	518	474	431	383
-65°	701	667	638	607	574	538	496	458	421	383	339
-67.5°	619	587	558	528	499	468	436	402	367	329	289
-70°	540	514	488	462	435	406	376	343	309	275	243
-72.5°	462	440	417	393	368	344	318	289	260	230	203
-75°	382	365	347	327	306	285	262	237	213	190	168
-77.5°	306	293	278	261	243	225	207	188	169	151	133
-80°	232	222	211	198	185	172	158	143	127	113	99
-82.5°	164	156	149	140	131	122	114	102	91	81	70
-85°	101	96	92	87	82	77	72	65	58	51	45
-87.5°	48	46	43	41	39	37	34	31	27	24	21
-90°	0	0	0	0	0	0	0	0	0	0	0



Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0	0	0
72.5°	0	0	0	0	0	0	0	0	0	0	0
70°	0	0	0	1	1	0	0	0	0	0	0
67.5°	0	0	0	1	2	2	0	1	1	0	0
65°	2	1	0	2	3	4	3	2	2	1	0
62.5°	4	5	3	2	3	5	6	4	3	3	1
60°	4	5	6	5	4	5	6	5	4	4	3
57.5°	7	6	7	6	5	6	6	6	5	5	4
55°	16	10	9	8	7	6	6	6	6	6	6
52.5°	41	23	14	11	9	7	7	6	6	6	6
50°	70	47	26	17	12	10	8	7	6	6	6
47.5°	102	75	48	26	18	13	10	8	6	6	7
45°	141	107	74	46	26	19	13	10	7	6	7
42.5°	183	145	105	66	44	29	15	12	9	7	8
40°	220	186	138	96	63	41	25	14	11	8	8
37.5°	257	224	178	127	83	58	37	16	14	10	8
35°	296	259	216	160	111	73	50	22	17	12	9
32.5°	334	292	247	194	138	88	64	36	21	14	9
30°	381	323	275	226	165	111	77	48	26	17	10
27.5°	429	352	302	252	193	134	91	59	32	20	12
25°	475	391	328	276	218	159	107	69	40	24	14
22.5°	522	432	352	298	243	182	125	82	49	29	16
20°	572	471	377	324	266	203	145	95	57	34	18
17.5°	626	513	417	351	288	223	163	108	65	39	20
15°	680	556	454	378	309	241	180	121	71	44	22
12.5°	728	595	488	404	330	257	195	134	77	49	26
10°	769	629	517	429	349	271	209	146	86	54	31
7.5°	805	659	543	452	367	286	220	155	96	58	35
5°	834	684	562	470	383	304	230	163	107	61	40
2.5°	857	703	576	485	396	320	238	169	116	63	44
0°	873	718	586	497	407	335	245	173	126	66	48
-2.5°	881	728	603	506	421	343	254	183	131	74	50
-5°	883	734	616	513	433	348	261	191	136	82	51
-7.5°	884	738	623	519	441	351	266	198	140	89	52
-10°	880	737	625	525	444	355	271	203	144	95	53
-12.5°	868	733	625	529	445	359	277	207	147	99	54
-15°	850	725	622	528	444	361	280	209	148	100	54
-17.5°	825	713	617	523	442	361	282	208	149	100	56
-20°	808	701	609	515	440	360	282	206	148	99	58

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	788	688	598	507	436	357	279	201	146	97	60
-25°	762	673	585	503	431	353	273	193	143	95	61
-27.5°	740	656	570	495	422	346	264	189	139	93	60
-30°	718	638	558	484	410	336	251	183	135	91	60
-32.5°	695	620	543	470	398	325	238	176	131	90	58
-35°	672	599	525	452	384	310	229	167	127	88	57
-37.5°	646	576	504	435	371	295	223	164	123	84	55
-40°	619	552	482	420	355	280	216	161	117	79	53
-42.5°	592	527	463	404	338	270	207	156	112	75	50
-45°	565	503	443	383	322	257	198	149	105	72	48
-47.5°	538	477	417	359	304	242	187	140	97	68	47
-50°	506	447	387	335	282	226	173	129	93	65	45
-52.5°	471	409	359	311	260	206	160	118	88	62	43
-55°	432	379	335	287	236	188	144	111	82	59	40
-57.5°	403	354	309	261	213	169	132	103	77	55	38
-60°	373	326	281	234	189	152	122	94	71	51	36
-62.5°	337	293	248	204	167	136	110	87	65	48	34
-65°	296	253	212	177	147	121	100	78	59	43	31
-67.5°	250	215	181	151	127	107	88	69	52	39	28
-70°	212	180	152	130	110	92	76	60	45	34	25
-72.5°	177	152	129	109	93	78	63	50	39	29	21
-75°	146	126	107	90	76	63	52	41	32	24	19
-77.5°	116	99	84	72	61	51	41	32	25	21	17
-80°	87	76	65	56	47	38	31	26	22	18	15
-82.5°	62	54	47	41	35	30	25	21	18	15	12
-85°	40	35	31	27	24	21	18	15	13	10	8
-87.5°	19	17	15	14	12	10	9	8	6	5	4
-90°	0	0	0	0	0	0	0	0	0	0	0

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0
72.5°	0	1	1	0	0	0	0
70°	1	1	1	0	0	0	0
67.5°	1	2	2	1	0	0	0
65°	1	2	2	1	0	0	0
62.5°	1	2	3	2	0	0	0
60°	1	2	4	3	0	0	0
57.5°	2	3	4	3	0	0	0
55°	3	3	4	4	1	0	0
52.5°	4	3	4	4	1	0	0
50°	5	4	4	5	2	0	0
47.5°	6	4	5	6	2	0	0
45°	7	5	5	6	2	0	0
42.5°	7	5	5	6	3	0	0
40°	8	6	5	6	3	0	0
37.5°	9	6	5	6	4	0	0
35°	9	6	6	6	4	0	0
32.5°	10	7	6	6	4	0	0
30°	10	8	6	6	4	0	0
27.5°	11	8	6	6	5	0	0
25°	11	9	6	6	5	0	0
22.5°	11	10	6	6	5	0	0
20°	12	10	6	6	5	0	0
17.5°	12	11	6	6	5	0	0
15°	13	11	6	6	6	0	0
12.5°	14	11	6	6	6	0	0
10°	14	12	6	6	6	0	0
7.5°	15	12	6	6	6	0	0
5°	16	12	6	6	6	0	0
2.5°	17	12	6	6	6	0	0
0°	18	12	6	6	6	0	0
-2.5°	21	13	7	6	6	0	0
-5°	24	13	7	6	6	0	0
-7.5°	27	14	8	6	6	0	0
-10°	29	14	8	6	6	1	0
-12.5°	31	15	8	6	6	1	0
-15°	33	15	9	6	6	1	0
-17.5°	34	15	9	6	6	1	0
-20°	34	15	9	6	6	1	0

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P627446 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: GFLD-SA4D-730-U-MWR-VSR-XX

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	34	15	9	6	5	1	0
-25°	34	16	9	6	5	1	0
-27.5°	34	17	9	6	5	1	0
-30°	33	18	9	6	5	1	0
-32.5°	32	19	9	6	5	1	0
-35°	32	19	10	6	5	1	0
-37.5°	33	20	10	6	5	1	0
-40°	33	20	10	6	5	1	0
-42.5°	33	20	10	6	5	1	0
-45°	32	20	11	6	5	2	0
-47.5°	31	19	11	7	5	1	0
-50°	30	19	11	7	5	1	0
-52.5°	29	18	11	7	5	1	0
-55°	28	18	11	7	5	1	0
-57.5°	27	17	11	7	5	1	0
-60°	25	16	10	7	5	1	0
-62.5°	23	15	10	7	5	1	0
-65°	22	14	10	7	5	1	0
-67.5°	20	13	10	7	4	1	0
-70°	17	13	10	7	4	1	0
-72.5°	16	12	9	7	3	1	0
-75°	15	11	9	6	3	1	0
-77.5°	13	11	8	5	3	1	0
-80°	12	9	6	4	2	1	0
-82.5°	9	7	5	3	2	0	0
-85°	6	5	3	2	1	0	0
-87.5°	3	2	2	1	1	0	0
-90°	0	0	0	0	0	0	0

(END OF REPORT)