

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: LUMARK

Report Number: P210678

Luminaire Tested: **WPSLED-30-GL-UNV**

Test Date: 10/26/16

**Test Information**

Test Method: LM-79-08  
Report Number: P210678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29004)  
Test Lab: INNOVATION CENTER-P2  
Test Date: 10/26/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: WPSLED-30-GL-UNV  
Description: LED WALL PACK  
Light Source: (1) CITIZEN 4000K LED  
CLU038-1208  
Ballast/Driver: (1) IPP ELECTRONIC DRIVER  
IPP LP1030-42-C0700

**Summary**

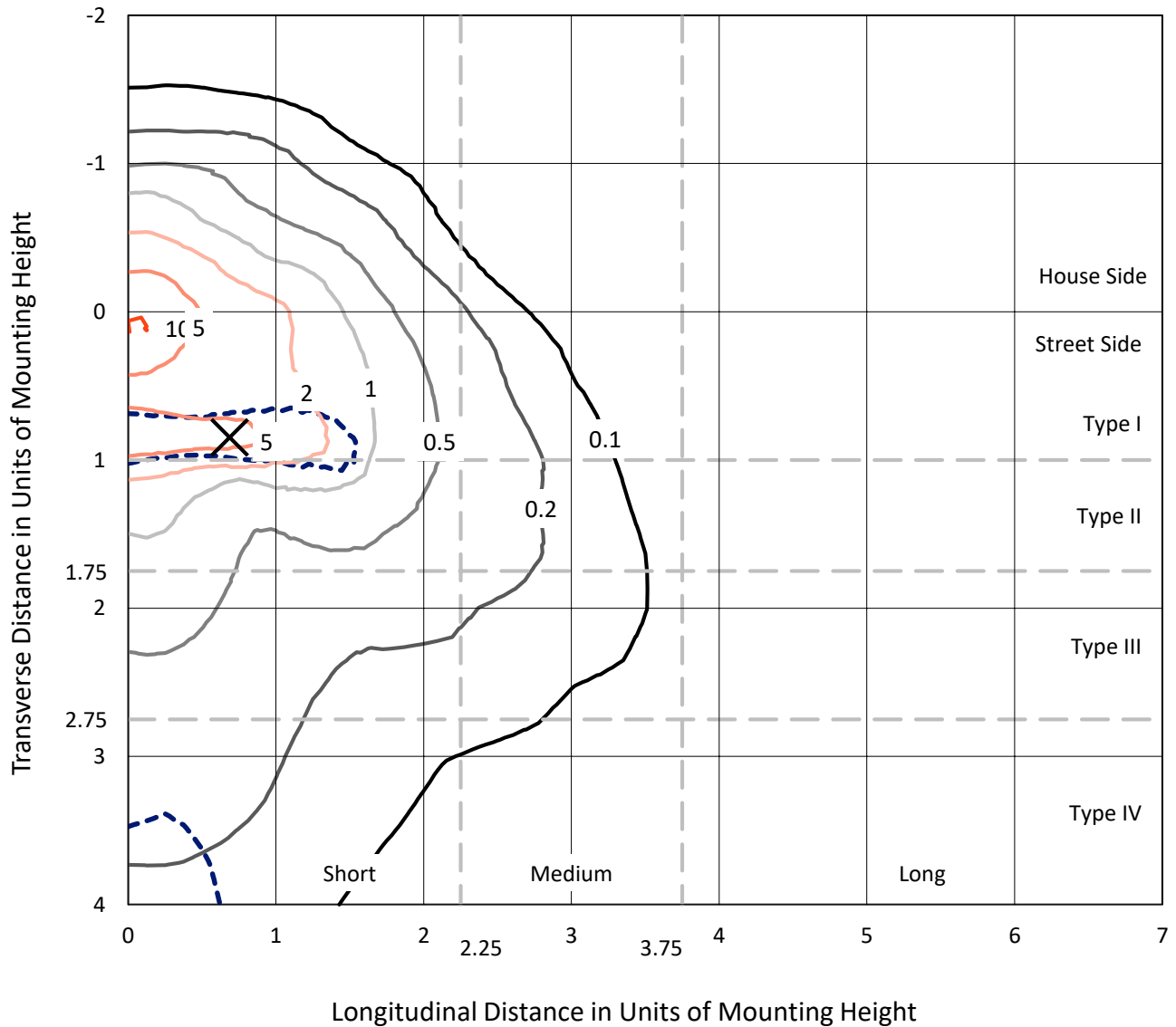
Lumens per Lamp: N/A  
Luminaire Lumens: 3382.1 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.58' x L: 0.42' x H: 0.42')  
IES Classification: Type I - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G3  
  
Input Watts (W): 27.2  
Input Voltage (V): 120.1  
Input Current (Ain): 0.228  
Voltage Rise (V): NR  
Power Factor: 0.9964  
Total Harmonic Distortion (THDi): 6.73%  
Frequency (hertz): 60  
Stabilization Time: 1 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): 24.9  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

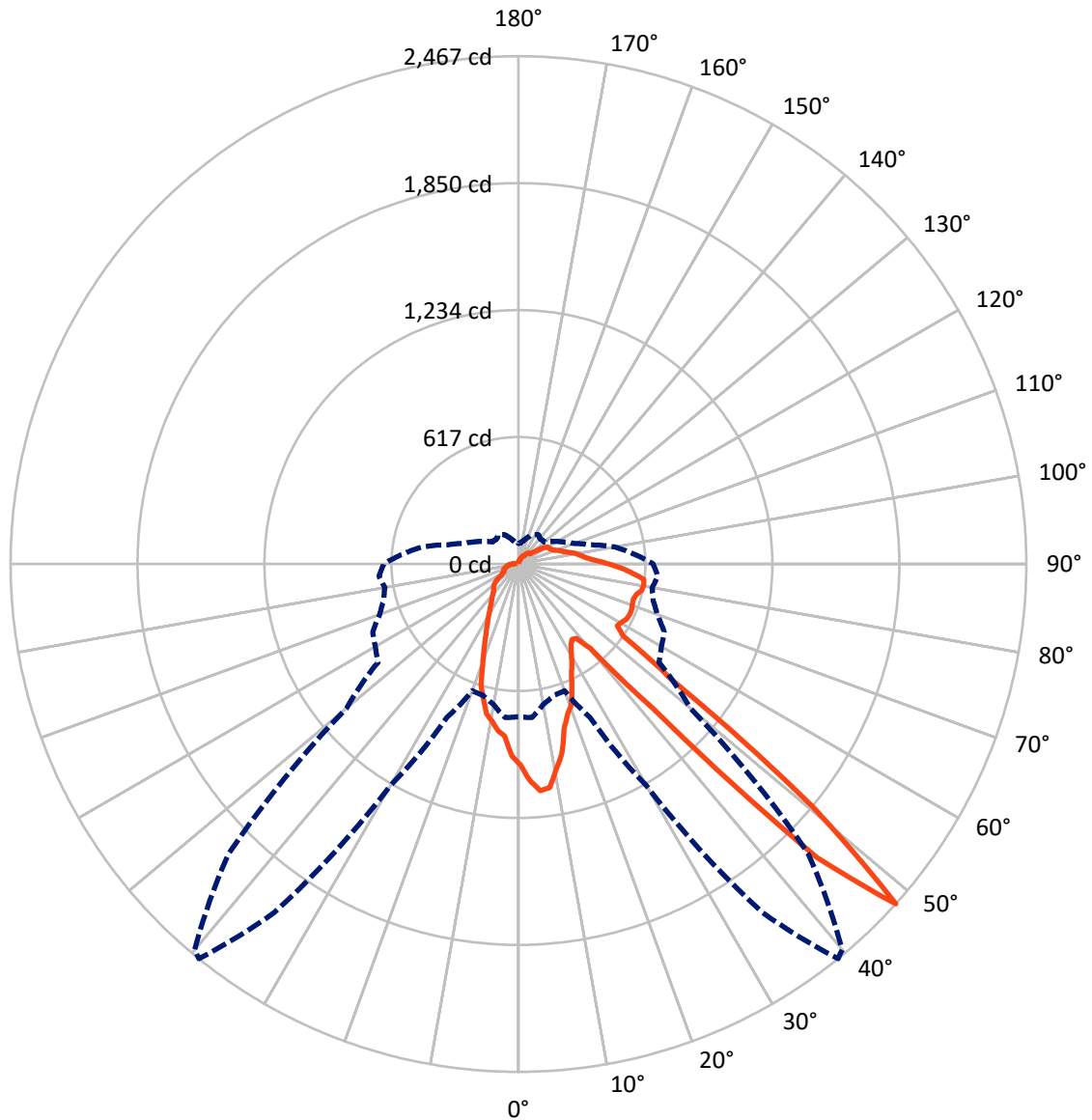
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type I - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 47.5-Deg Vertical

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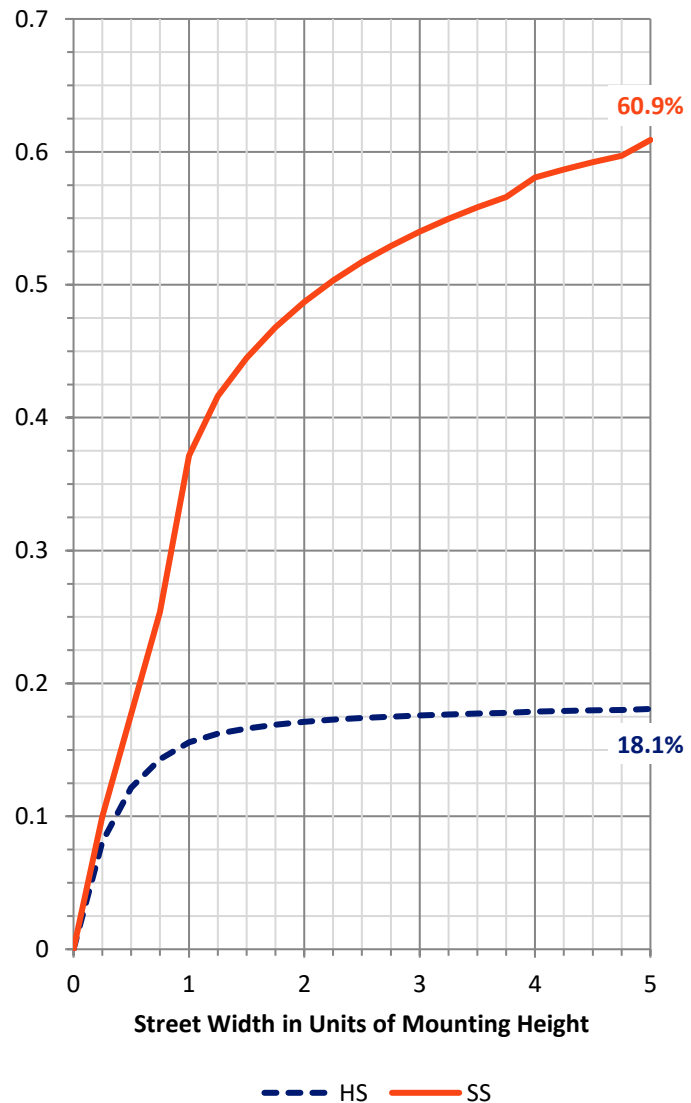
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	626.2	33.4	659.7
	% Fixture	18.5	1.0	19.5
<b>Street Side</b>	Lumens	2256.1	466.4	2722.5
	% Fixture	66.7	13.8	80.5
<b>Total</b>	Lumens	2882.3	499.8	3382.1
	% Fixture	85.2	14.8	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	2.7
10°-20°	217.5	6.4
20°-30°	251.1	7.4
30°-40°	311.8	9.2
40°-50°	508.1	15.0
50°-60°	439.1	13.0
60°-70°	382.5	11.3
70°-80°	381.0	11.3
80°-90°	299.6	8.9
90°-100°	194.6	5.8
100°-110°	124.4	3.7
110°-120°	78.9	2.3
120°-130°	52.0	1.5
130°-140°	26.4	0.8
140°-150°	14.7	0.4
150°-160°	6.9	0.2
160°-170°	1.8	0.1
170°-180°	0.0	0.0
0°-90°	2882.3	85.2
0°-180°	3382.1	100.0



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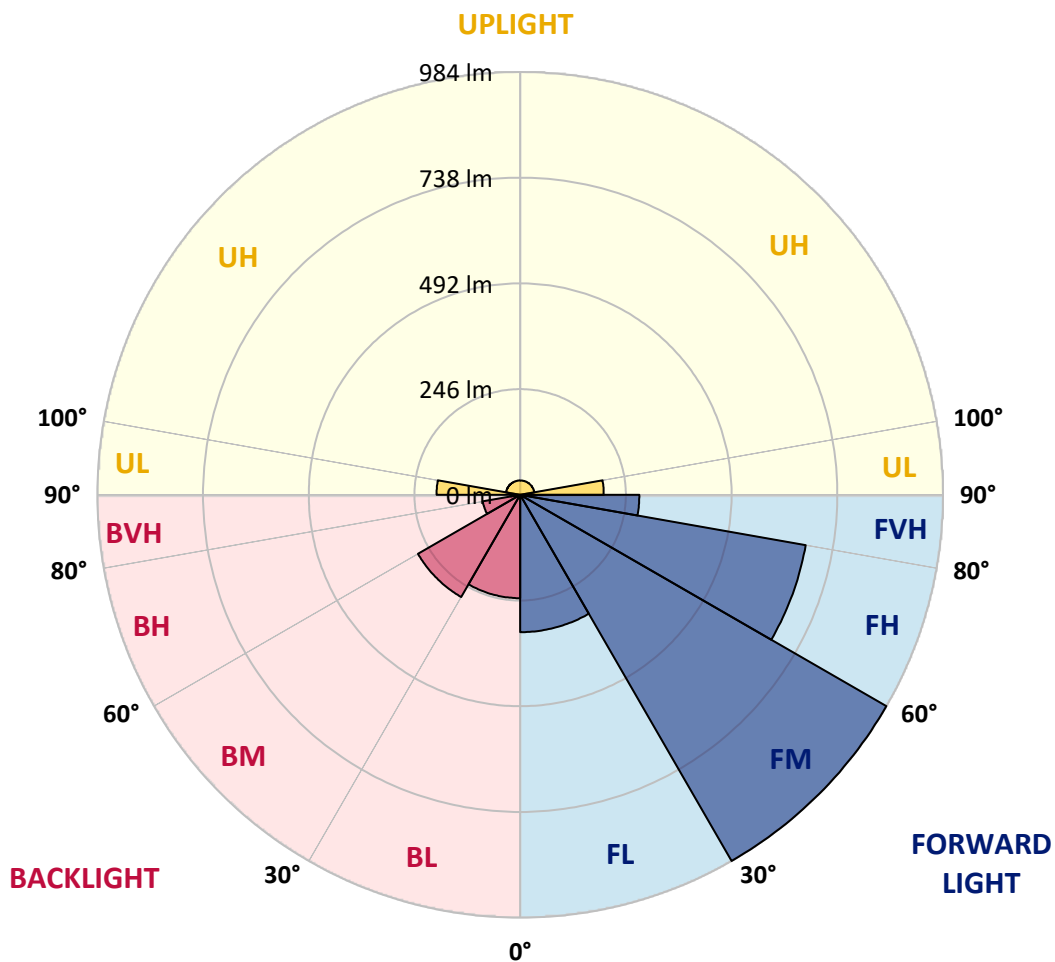
CATALOG NUMBER: WPSLED-30-GL-UNV

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.7	9.5			
FM (30°-60°)	984.3	29.1			
FH (60°-80°)	674.8	20.0			G1/1800
FVH (80°-90°)	277.3	8.2			G3/500
BL (0°-30°)	240.6	7.1	B1/500		
BM (30°-60°)	274.7	8.1	B1/1000		
BH (60°-80°)	88.6	2.6	B0/110		G0/110
BVH (80°-90°)	22.3	0.7			G1/100
UL (90°-100°)	194.6	5.8		U3/500	
UH (100°-180°)	33.4	1.0		U2/50	

**BUG Rating: B1-U3-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
0°	974	974	974	974	974	974	974	974	974	974	974
2.5°	1081	1072	1051	1067	1053	1063	1057	1057	1051	1060	1065
5°	1108	1104	1086	1106	1093	1108	1105	1107	1106	1114	1121
7.5°	1041	1039	1029	1050	1039	1063	1068	1084	1096	1103	1121
10°	920	927	924	950	948	977	985	997	1012	1018	1051
12.5°	809	810	803	831	833	863	884	915	942	948	980
15°	774	777	770	790	783	795	792	804	830	836	888
17.5°	711	717	714	738	742	768	774	773	769	770	787
20°	694	695	687	705	696	708	718	729	732	732	724
22.5°	631	639	639	661	655	665	660	655	665	668	675
25°	583	591	595	621	622	633	624	602	598	597	613
27.5°	579	583	577	593	585	585	570	557	552	549	555
30°	634	631	601	601	569	543	526	512	507	504	505
32.5°	763	757	704	673	589	529	502	478	468	463	462
35°	1107	1078	929	833	693	587	516	476	449	440	429
37.5°	1614	1581	1443	1377	1064	760	608	518	459	443	412
40°	1953	1967	1928	1991	1835	1533	1003	673	538	502	438
42.5°	1697	1688	1697	1911	2036	2098	1857	1409	957	839	643
45°	1196	1163	1093	1205	1355	1793	1960	2137	2033	1852	1114
47.5°	742	749	693	661	655	821	1242	2067	2467	2447	1991
50°	611	624	585	534	505	522	601	1121	1852	1971	2447
52.5°	556	568	541	487	457	448	451	553	925	1037	1912
55°	566	580	561	505	459	416	379	428	617	661	1031
57.5°	602	624	602	542	477	410	367	400	566	589	765
60°	647	661	628	569	498	424	386	418	575	599	736
62.5°	685	707	666	606	532	455	414	439	589	621	758
65°	748	777	739	664	569	482	444	460	594	629	755
67.5°	809	829	789	709	601	517	480	484	593	623	742
70°	917	948	877	792	661	561	516	503	587	609	709
72.5°	1050	1071	1010	882	722	614	563	537	584	597	687
75°	1155	1167	1084	974	802	688	620	567	592	606	673
77.5°	1164	1190	1097	984	822	727	679	615	612	615	641
80°	1042	1094	1011	916	777	717	690	638	618	613	626
82.5°	938	996	937	847	707	654	635	617	614	604	601
85°	795	852	815	741	625	591	583	561	553	542	573
87.5°	775	823	769	690	563	516	506	503	494	482	515
90°	694	734	699	635	522	482	459	442	426	419	452
92.5°	667	706	657	592	480	439	418	391	366	357	390
95°	648	676	632	574	460	413	384	354	327	319	325
97.5°	589	616	583	532	428	384	359	333	303	294	292
100°	522	549	526	483	392	350	330	310	282	270	256
102.5°	472	496	471	437	357	318	300	280	251	240	226
105°	424	445	425	398	324	286	271	255	226	215	201
107.5°	364	384	374	355	296	263	244	229	211	202	176
110°	305	316	309	300	258	235	227	215	190	182	162



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	39°	40°	45°
112.5°	276	285	279	269	235	214	204	198	178	171	151
115°	240	246	237	230	208	191	190	190	170	162	143
117.5°	229	233	227	219	203	185	177	180	167	160	137
120°	212	220	217	207	194	185	173	171	162	154	130
122.5°	191	201	204	196	184	177	166	158	146	140	119
125°	166	173	178	176	166	157	142	134	119	114	102
127.5°	128	133	135	137	127	120	108	103	95	92	87
130°	90	92	93	90	88	85	81	82	79	77	78
132.5°	72	74	74	73	71	72	71	73	73	73	76
135°	67	68	68	67	66	68	67	71	72	72	75
137.5°	62	63	63	64	64	67	66	71	71	70	74
140°	58	59	60	61	62	63	63	67	67	66	67
142.5°	55	56	57	57	57	58	58	61	59	58	57
145°	56	56	55	53	51	51	51	52	50	50	48
147.5°	58	57	53	50	46	46	45	46	44	43	44
150°	52	53	51	48	46	45	42	43	43	42	42
152.5°	47	49	50	50	49	48	44	43	41	40	38
155°	46	47	47	47	46	46	41	38	34	33	29
157.5°	44	45	44	43	40	38	35	33	29	28	23
160°	37	38	38	38	37	36	32	28	23	22	17
162.5°	28	28	28	28	26	24	22	20	17	16	13
165°	22	22	21	20	19	17	15	14	11	11	8
167.5°	14	14	14	13	11	11	9	7	4	3	1
170°	5	5	5	4	1	1	1	1	1	1	1
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0





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CATALOG NUMBER: WPSLED-30-GL-UNV

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	974	974	974	974	974	974	974	974	974	974	974
2.5°	1039	1033	1020	1013	1016	1008	993	1005	987	975	974
5°	1097	1094	1079	1070	1071	1055	1030	1034	1010	995	989
7.5°	1108	1109	1097	1092	1094	1078	1045	1041	1012	995	983
10°	1056	1077	1080	1085	1087	1072	1037	1023	990	966	942
12.5°	978	1001	1017	1039	1049	1037	1003	990	954	928	903
15°	900	913	923	958	983	978	949	934	896	864	832
17.5°	798	821	832	866	910	919	892	877	838	799	753
20°	707	728	740	768	827	864	848	835	797	749	703
22.5°	646	655	671	694	747	801	800	792	751	696	669
25°	609	606	611	630	665	726	743	748	710	655	630
27.5°	559	556	560	573	598	657	686	705	664	621	583
30°	508	512	509	522	535	588	625	657	619	587	540
32.5°	461	476	471	481	493	540	579	620	592	557	513
35°	426	446	450	475	491	526	557	599	583	530	489
37.5°	413	454	490	528	548	559	577	620	602	530	482
40°	473	548	607	634	627	630	632	649	620	539	467
42.5°	589	654	706	709	680	679	662	666	643	538	454
45°	759	713	748	744	699	681	649	677	658	560	461
47.5°	1090	833	802	781	717	677	659	680	654	561	475
50°	1863	1033	923	850	752	708	687	682	627	574	462
52.5°	2261	1471	1039	920	816	761	705	650	604	532	460
55°	1825	1647	1141	937	870	804	702	621	569	475	399
57.5°	1132	1536	1252	945	851	800	674	618	489	410	383
60°	963	1230	1158	945	824	745	655	559	472	376	297
62.5°	888	1047	980	888	778	693	618	499	370	307	234
65°	821	909	853	856	738	658	540	415	361	259	183
67.5°	754	827	812	794	710	598	483	389	283	193	145
70°	714	781	798	723	677	503	358	330	234	145	120
72.5°	687	777	791	661	598	459	348	268	163	117	100
75°	660	758	753	644	492	365	284	191	118	93	86
77.5°	683	742	697	602	432	344	238	130	97	79	72
80°	686	702	631	496	377	280	166	102	75	69	62
82.5°	688	671	554	430	352	222	119	83	68	59	53
85°	621	626	491	370	290	159	94	70	60	53	43
87.5°	582	563	428	335	214	124	78	63	52	41	37
90°	500	506	394	295	162	101	71	56	46	34	33
92.5°	423	408	352	228	136	93	66	52	37	32	31
95°	373	365	292	186	119	85	60	49	34	30	31
97.5°	317	334	229	164	117	79	60	42	34	30	30
100°	270	268	198	144	108	73	54	40	34	30	28
102.5°	231	216	172	135	93	71	51	40	34	29	28
105°	182	180	151	123	84	66	50	40	34	30	28
107.5°	160	159	139	109	80	64	51	42	35	30	27
110°	144	139	120	96	77	63	51	43	35	29	26



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	130	122	103	87	74	63	53	45	35	29	26
115°	120	107	91	82	71	64	55	45	35	29	26
117.5°	112	97	84	78	70	65	57	45	35	29	25
120°	104	89	79	75	69	66	56	44	35	29	25
122.5°	94	84	76	73	70	65	53	42	35	29	24
125°	85	79	75	75	69	60	49	40	33	27	23
127.5°	78	79	77	74	65	56	45	37	30	25	21
130°	77	80	77	71	61	51	41	32	27	23	20
132.5°	78	79	73	66	56	48	37	29	24	20	18
135°	77	76	68	61	51	43	33	26	22	19	17
137.5°	72	70	61	55	46	39	29	23	19	16	15
140°	63	60	55	48	41	34	24	20	16	14	13
142.5°	53	52	47	42	37	30	21	17	14	12	11
145°	47	46	42	39	33	24	17	14	12	10	9
147.5°	42	43	39	34	26	18	14	11	10	8	7
150°	40	39	33	26	19	13	10	9	7	6	5
152.5°	34	30	24	18	13	9	8	7	6	5	4
155°	25	21	16	12	7	6	5	4	4	3	3
157.5°	18	14	10	6	3	3	3	3	3	2	2
160°	13	11	6	2	2	3	2	2	2	2	2
162.5°	10	6	2	2	2	2	2	2	2	2	2
165°	4	2	2	2	2	2	2	2	2	2	2
167.5°	2	2	2	2	2	2	2	2	2	2	2
170°	2	2	2	2	2	2	2	2	2	2	2
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	974	974	974	974	974	974	974	974	974	974	974
2.5°	959	975	963	953	958	946	952	931	936	930	906
5°	969	978	955	928	920	891	875	840	835	821	797
7.5°	954	948	908	864	851	829	831	815	817	811	788
10°	898	881	842	822	828	816	811	776	766	756	740
12.5°	845	825	806	795	788	763	757	745	742	718	686
15°	776	782	764	737	727	722	713	679	669	658	630
17.5°	719	715	683	672	669	646	643	626	595	557	516
20°	667	639	622	604	593	589	563	524	503	473	438
22.5°	620	595	573	541	533	500	480	449	431	409	384
25°	565	555	523	497	466	433	411	383	374	368	352
27.5°	530	504	471	442	422	385	354	334	331	329	321
30°	486	457	413	395	376	340	316	296	293	291	290
32.5°	446	409	372	356	335	304	286	263	259	257	257
35°	427	372	341	322	301	274	255	236	229	242	231
37.5°	400	341	314	293	274	244	225	214	215	211	213
40°	375	321	289	272	252	219	203	197	194	204	206
42.5°	365	303	273	256	229	198	186	179	187	188	190
45°	365	293	259	237	208	182	171	170	176	183	176
47.5°	359	291	250	219	191	167	163	162	172	166	156
50°	377	290	239	202	172	156	154	155	154	145	123
52.5°	352	286	225	180	159	143	149	143	134	116	96
55°	343	268	204	163	143	133	133	125	109	94	76
57.5°	295	240	184	149	129	120	116	104	91	78	71
60°	237	203	165	134	117	104	99	91	80	74	68
62.5°	189	169	145	121	102	91	88	82	77	71	65
65°	151	138	128	107	91	83	82	77	75	69	63
67.5°	124	117	110	95	83	78	77	77	74	68	59
70°	108	100	94	84	78	75	77	76	71	63	53
72.5°	92	85	81	77	76	75	76	73	65	57	48
75°	77	73	71	73	74	74	72	67	59	51	47
77.5°	66	64	65	69	72	71	67	61	54	49	48
80°	55	58	61	66	70	66	61	56	51	48	45
82.5°	49	53	58	63	65	60	58	52	48	45	37
85°	43	48	54	59	59	55	51	46	43	36	27
87.5°	38	44	50	53	54	50	45	41	35	27	19
90°	35	40	44	47	49	44	38	33	26	18	10
92.5°	33	36	39	42	45	39	33	27	21	13	7
95°	32	33	36	39	41	34	29	23	17	10	5
97.5°	29	31	33	35	36	30	24	19	13	8	4
100°	27	29	31	32	32	26	20	16	11	6	3
102.5°	27	27	28	28	28	22	18	14	9	5	2
105°	25	26	25	24	24	19	16	12	8	4	1
107.5°	25	25	23	21	20	17	14	10	6	3	1
110°	24	23	21	19	18	15	12	9	5	2	1



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
112.5°	23	22	20	18	16	13	11	7	4	2	1	0°
115°	23	21	19	16	14	12	9	6	4	2	1	2.5°
117.5°	22	20	18	16	13	11	8	6	3	2	1	5°
120°	21	19	17	14	12	10	7	5	3	2	1	7.5°
122.5°	20	18	15	13	11	8	6	4	2	1	1	10°
125°	19	17	14	12	10	7	5	3	2	1	1	12.5°
127.5°	18	16	13	11	8	6	4	3	2	1	1	15°
130°	17	15	12	9	7	5	4	3	2	1	1	17.5°
132.5°	15	13	11	8	6	4	3	2	2	1	1	20°
135°	14	12	10	7	5	4	3	2	2	1	1	22.5°
137.5°	12	10	8	6	5	3	3	2	2	1	1	25°
140°	10	9	7	5	4	3	2	2	2	1	1	27.5°
142.5°	9	7	5	4	3	3	2	2	2	1	1	30°
145°	7	6	4	3	3	2	2	2	2	1	1	32.5°
147.5°	5	4	4	3	3	2	2	2	2	1	1	35°
150°	4	3	3	3	3	2	2	2	2	1	1	37.5°
152.5°	3	3	3	2	2	2	2	2	2	1	1	40°
155°	2	3	2	2	2	2	2	2	2	1	1	42.5°
157.5°	2	2	2	2	2	2	2	2	2	1	1	45°
160°	2	2	2	2	2	2	2	2	2	1	1	47.5°
162.5°	2	2	2	2	2	2	2	2	2	1	1	50°
165°	2	2	2	2	2	2	2	2	2	1	1	52.5°
167.5°	2	2	2	2	2	2	2	2	1	1	1	55°
170°	2	2	2	2	2	2	2	2	1	1	1	57.5°
172.5°	0	0	0	0	0	0	0	0	0	0	0	60°
175°	0	0	0	0	0	0	0	0	0	0	0	62.5°
177.5°	0	0	0	0	0	0	0	0	0	0	0	65°
180°	0	0	0	0	0	0	0	0	0	0	0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°

NUMBER: P210678  
 NUMBER: WPSLED-30-GL-UNV

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

160°	165°	170°	175°	180°
974	974	974	974	974
913	904	902	901	900
798	793	791	789	783
786	778	773	768	763
742	733	728	721	718
675	663	660	652	648
606	576	565	551	545
497	475	464	450	446
420	401	393	381	376
375	365	359	350	344
347	341	336	327	321
317	313	311	302	297
284	280	282	276	269
268	256	250	244	240
232	234	238	238	234
222	224	227	222	216
210	213	219	209	201
197	195	191	178	170
175	165	150	138	130
139	123	111	102	100
105	92	85	80	76
81	74	72	69	67
71	69	67	64	63
68	65	62	58	57
65	61	57	54	52
61	56	53	51	51
57	51	50	52	53
52	47	48	51	53
48	45	48	51	49
46	46	50	50	48
48	45	46	48	47
45	40	40	42	41
38	33	39	35	34
30	30	31	29	28
22	20	20	20	20
14	11	12	11	12
4	2	2	2	2
2	1	1	1	1
2	1	1	1	1
1	1	1	1	1
1	1	1	1	1
1	1	1	1	1
1	1	1	1	1
1	1	1	1	0
1	0	0	0	0

**CANDELA DISTRIBUTION:**

	160°
112.5°	1
115°	1
117.5°	1
120°	1
122.5°	1
125°	1
127.5°	1
130°	1
132.5°	1
135°	1
137.5°	1
140°	1
142.5°	1
145°	1
147.5°	1
150°	1
152.5°	1
155°	1
157.5°	1
160°	1
162.5°	1
165°	1
167.5°	1
170°	1
172.5°	0
175°	0
177.5°	0
180°	0



'210678  
WPSLED-30-GL-UNV

**TION (continued):**

165°	170°	175°	180°
1	0	1	0
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
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1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

(END OF REPORT)