

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: P26561

Luminaire Tested: **LDWP-GL-3B-ED**

Test Date: 09/19/15

Test Information

Test Method: LM-79-08
Report Number: P26561
Test Lab: INNOVATION CENTER-P2
Test Date: 09/19/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDWP-GL-3B-ED
Description: LUMARK WALPAK GLASS
Light Source: (2) 5000K COB LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.4 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 0.38' x H: 0.42')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

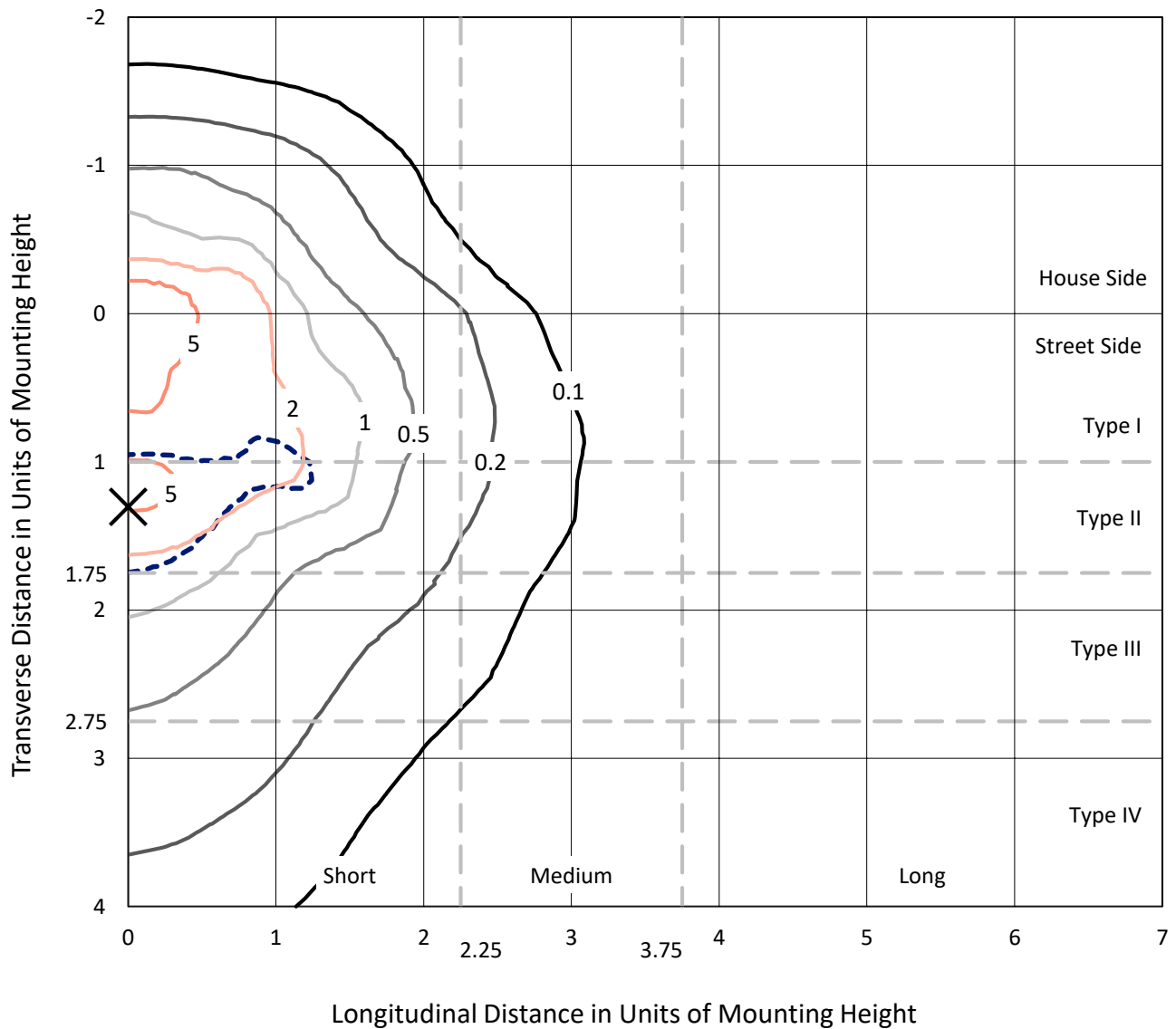
Input Watts (W): 27
Input Voltage (V): 120.12
Input Current (Ain): 0.22596
Voltage Rise (V): NR
Power Factor: 0.9957
Total Harmonic Distortion (THDi): 6.47%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

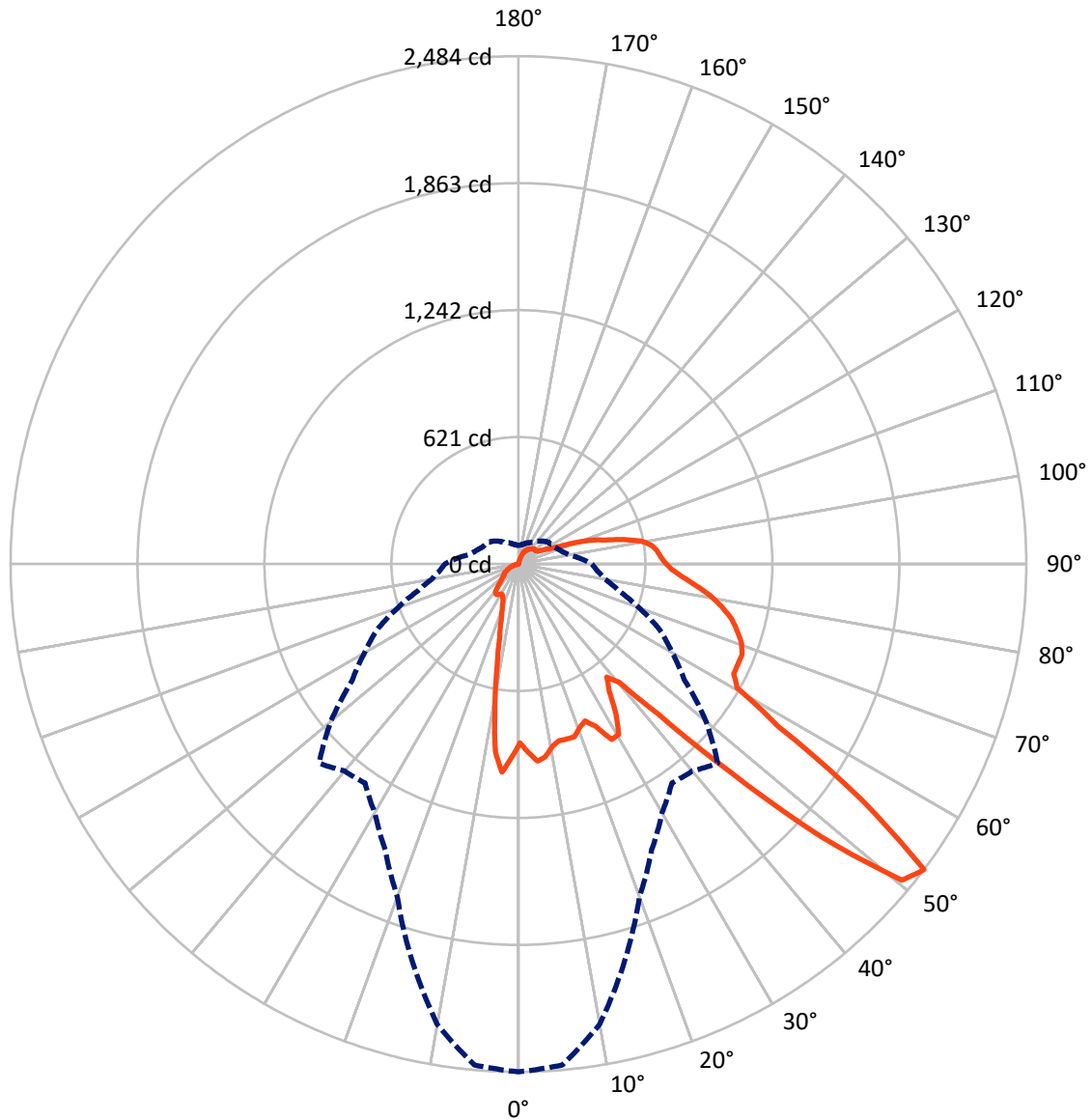
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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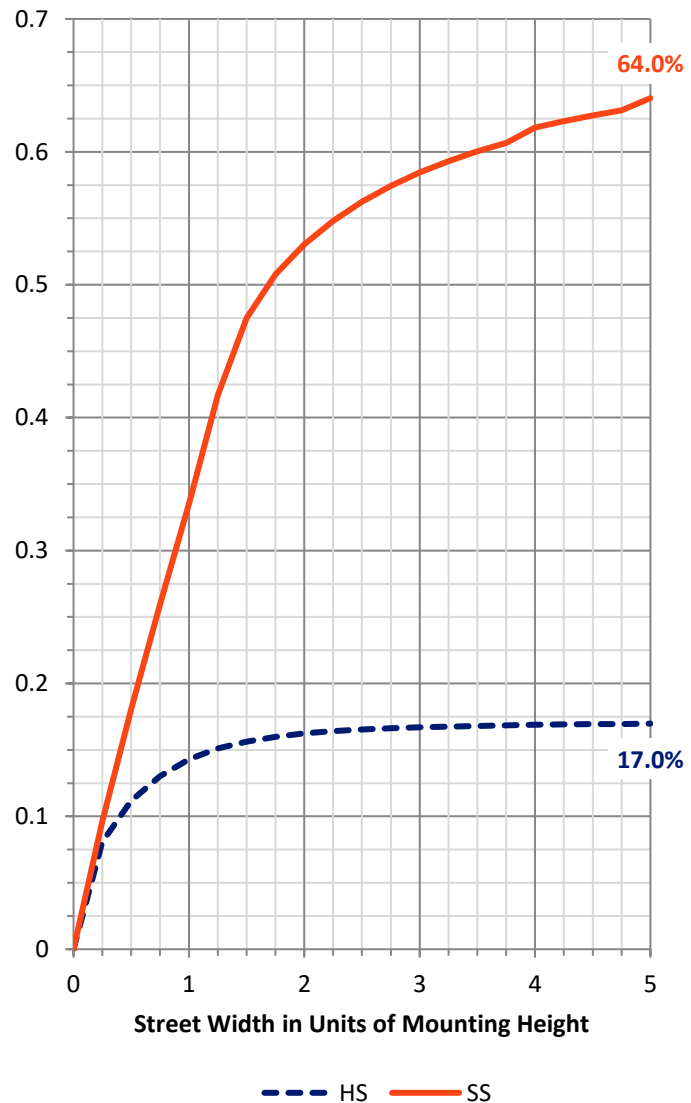
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.3	28.2	601.6
	% Fixture	17.2	0.8	18.0
Street Side	Lumens	2290.5	441.4	2731.9
	% Fixture	68.7	13.2	82.0
Total	Lumens	2863.8	469.6	3333.4
	% Fixture	85.9	14.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	2.7
10°-20°	205.5	6.2
20°-30°	255.4	7.7
30°-40°	328.2	9.8
40°-50°	447.5	13.4
50°-60°	573.6	17.2
60°-70°	408.6	12.3
70°-80°	313.5	9.4
80°-90°	240.6	7.2
90°-100°	185.3	5.6
100°-110°	119.0	3.6
110°-120°	64.6	1.9
120°-130°	43.2	1.3
130°-140°	30.7	0.9
140°-150°	18.0	0.5
150°-160°	7.5	0.2
160°-170°	1.3	0.0
170°-180°	0.3	0.0
0°-90°	2863.8	85.9
0°-180°	3333.4	100.0

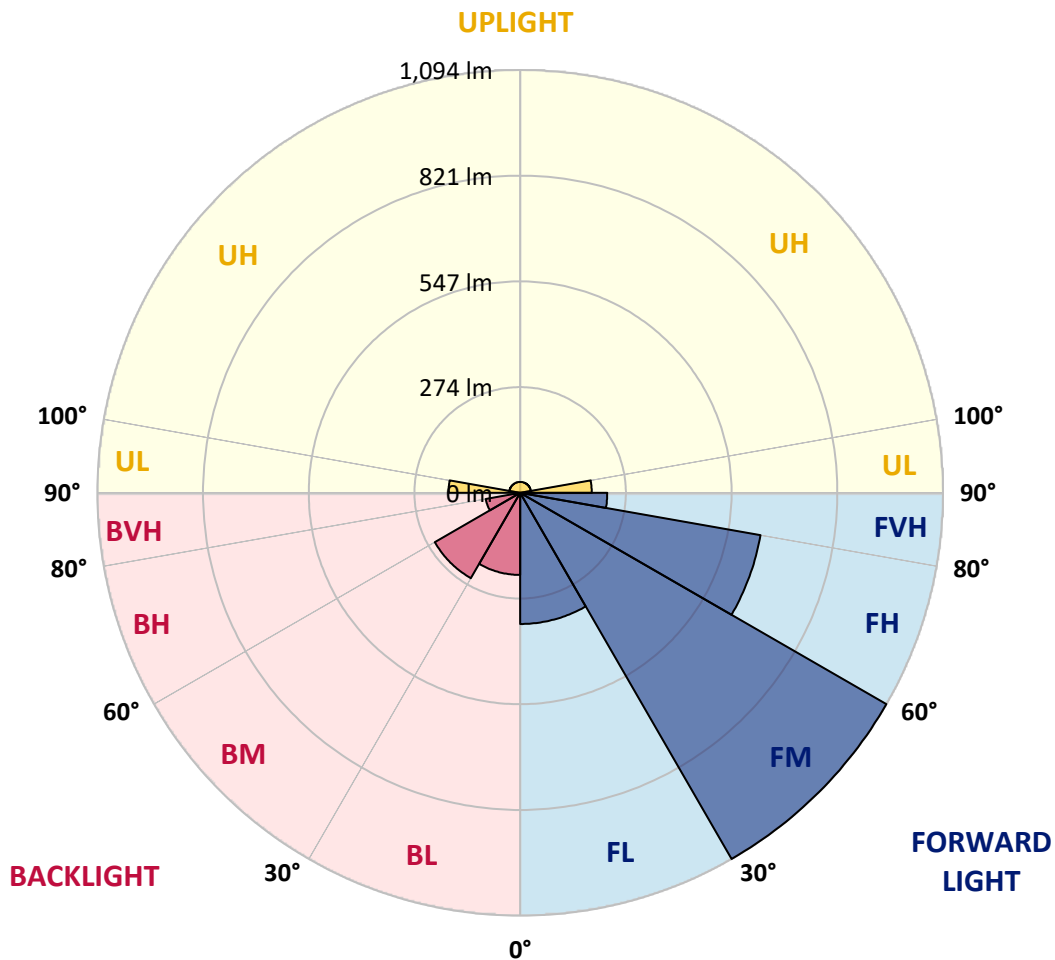


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.5	10.2			
FM (30°-60°)	1094.1	32.8			
FH (60°-80°)	631.5	18.9			G0/660
FVH (80°-90°)	225.4	6.8			G3/500
BL (0°-30°)	212.4	6.4	B1/500		
BM (30°-60°)	255.2	7.7	B1/1000		
BH (60°-80°)	90.6	2.7	B0/110		G0/110
BVH (80°-90°)	15.1	0.5			G1/100
UL (90°-100°)	185.3	5.6		U3/500	
UH (100°-180°)	28.2	0.8		U2/50	

BUG Rating: B1-U3-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	875	875	875	875	875	875	875	875	875	875	875
2.5°	922	920	913	916	915	918	916	915	917	912	912
5°	969	973	975	983	988	995	1001	1002	1007	997	994
7.5°	951	955	966	980	995	1008	1020	1025	1025	1025	1015
10°	908	915	932	954	970	983	994	998	999	989	968
12.5°	886	892	912	934	948	959	972	971	953	931	904
15°	888	896	916	931	936	942	942	923	897	876	850
17.5°	888	898	914	921	921	911	884	854	830	817	807
20°	854	868	888	892	890	858	814	784	764	761	763
22.5°	834	847	862	863	844	792	749	720	703	705	712
25°	880	893	899	880	830	767	718	683	673	663	667
27.5°	972	979	987	948	865	775	700	657	636	634	653
30°	967	988	1014	983	906	804	711	650	617	615	628
32.5°	875	903	943	921	866	796	731	671	631	612	595
35°	765	795	832	820	767	743	712	681	652	614	594
37.5°	702	715	740	726	687	672	669	675	660	633	640
40°	762	768	786	751	707	679	681	689	690	674	707
42.5°	1004	1005	1002	948	847	797	776	751	741	768	812
45°	1446	1437	1391	1252	1088	982	926	877	874	893	924
47.5°	1997	1977	1852	1625	1372	1220	1108	1034	1070	1040	1026
50°	2431	2416	2245	1953	1654	1464	1311	1205	1220	1231	1104
52.5°	2484	2460	2286	2009	1731	1542	1405	1308	1322	1378	1197
55°	2041	2029	1898	1720	1536	1377	1301	1272	1304	1428	1258
57.5°	1498	1469	1409	1336	1213	1090	1039	1103	1184	1351	1277
60°	1229	1198	1149	1096	997	865	787	860	974	1154	1213
62.5°	1182	1136	1050	972	879	764	669	672	760	908	1055
65°	1180	1124	1013	919	811	708	616	575	614	695	821
67.5°	1180	1120	999	902	785	674	586	529	539	573	614
70°	1158	1102	987	889	769	651	567	513	504	508	499
72.5°	1119	1072	963	864	744	626	550	500	484	479	446
75°	1078	1029	923	830	713	595	531	492	475	464	418
77.5°	1019	973	873	781	674	561	504	481	466	451	403
80°	956	916	815	733	633	530	478	468	455	446	391
82.5°	877	837	751	682	593	500	450	446	440	435	381
85°	804	769	696	641	564	479	432	424	426	421	369
87.5°	750	716	653	607	536	461	418	408	412	404	349
90°	717	684	623	580	511	444	405	394	393	383	327
92.5°	696	662	601	558	493	428	392	381	376	358	304
95°	681	644	585	538	475	410	372	359	350	323	280
97.5°	658	622	561	510	445	380	345	332	316	290	259
100°	612	577	519	464	400	343	313	293	279	260	237
102.5°	530	500	451	398	346	304	275	252	240	230	214
105°	438	412	373	334	300	264	235	214	207	203	192
107.5°	378	356	320	286	254	218	192	182	177	177	172
110°	299	285	254	227	201	178	160	156	155	156	154



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CATALOG NUMBER: LDWP-GL-3B-ED

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	221	212	195	180	165	150	139	137	137	140	138
115°	178	172	161	153	143	133	124	122	122	125	127
117.5°	151	148	141	136	128	121	114	112	112	117	123
120°	131	130	124	120	115	111	106	105	108	113	120
122.5°	118	116	113	110	107	104	103	103	107	112	113
125°	110	109	106	106	103	102	102	104	108	109	109
127.5°	107	106	105	105	103	104	104	105	108	108	105
130°	108	107	106	106	104	104	104	105	106	104	100
132.5°	106	106	105	104	103	103	102	101	101	98	93
135°	105	104	103	102	101	99	97	96	95	92	86
137.5°	101	101	100	99	96	95	94	92	89	85	78
140°	97	97	96	94	93	90	88	85	82	77	71
142.5°	93	92	92	90	87	85	82	80	75	69	63
145°	88	87	86	84	81	79	76	72	67	62	56
147.5°	82	82	80	78	75	72	68	64	60	54	46
150°	76	76	74	72	69	66	61	57	52	44	33
152.5°	71	71	69	67	64	61	56	50	41	32	23
155°	64	64	64	62	59	54	47	39	30	21	13
157.5°	53	54	52	51	46	40	33	26	18	11	7
160°	36	35	33	32	28	24	18	12	8	6	4
162.5°	17	17	15	15	12	8	6	5	4	3	3
165°	4	4	4	4	4	4	3	3	2	2	2
167.5°	1	2	2	2	2	2	2	2	2	2	2
170°	1	1	1	1	2	2	2	2	2	2	2
172.5°	1	1	1	1	2	2	2	2	2	2	2
175°	1	1	1	1	2	2	2	2	2	2	2
177.5°	0	1	1	1	2	2	2	2	2	2	2
180°	3	3	3	3	3	3	3	3	3	3	3



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 CATALOG NUMBER: LDWP-GL-3B-ED

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	875	875	875	875	875	875	875	875	875	875	875
2.5°	911	909	906	912	906	906	905	902	905	906	908
5°	982	965	950	940	929	922	919	918	922	931	942
7.5°	1007	995	975	947	922	899	889	890	896	918	944
10°	952	943	921	897	874	853	833	836	846	877	917
12.5°	886	869	852	829	809	792	773	773	783	822	866
15°	830	816	802	787	768	754	735	738	758	798	832
17.5°	803	792	778	753	736	721	704	708	735	779	796
20°	766	763	744	725	710	692	679	683	712	746	737
22.5°	717	728	731	716	706	685	673	673	700	717	681
25°	685	701	714	712	686	664	655	663	684	682	628
27.5°	658	672	681	690	680	668	670	679	699	675	593
30°	623	630	670	711	723	714	714	728	752	709	601
32.5°	601	635	694	765	794	787	786	805	815	754	623
35°	607	668	728	813	849	826	818	825	818	741	610
37.5°	657	696	735	803	829	796	782	774	752	662	549
40°	724	720	722	744	743	715	689	667	634	540	449
42.5°	782	751	705	670	650	613	584	565	521	433	368
45°	854	786	698	622	580	533	499	485	443	366	314
47.5°	927	810	692	577	522	474	441	428	381	318	278
50°	965	831	713	586	502	443	403	388	338	280	250
52.5°	992	869	764	628	509	431	387	359	305	252	226
55°	1031	920	826	691	541	438	385	340	282	234	206
57.5°	1074	943	882	730	576	451	389	331	266	218	190
60°	1048	901	870	720	570	455	393	333	269	207	176
62.5°	906	767	774	662	524	464	398	331	262	198	163
65°	721	635	625	561	478	429	377	330	242	181	155
67.5°	563	536	523	471	439	379	330	295	210	163	142
70°	472	475	465	417	406	342	294	255	180	149	129
72.5°	418	427	427	391	378	316	254	203	152	125	116
75°	385	384	408	362	359	304	218	165	129	108	105
77.5°	361	350	389	346	359	293	191	135	103	94	95
80°	344	336	364	325	311	263	169	115	83	82	87
82.5°	329	333	345	296	263	213	138	89	69	72	75
85°	311	327	322	272	224	176	104	63	54	59	59
87.5°	299	310	300	236	183	158	79	54	45	48	47
90°	284	293	283	208	161	122	64	42	39	40	40
92.5°	269	281	261	182	154	94	57	38	36	37	37
95°	257	265	230	159	129	80	47	35	33	35	34
97.5°	239	243	204	155	103	71	42	35	32	32	32
100°	220	218	176	134	100	63	42	35	31	31	30
102.5°	210	196	164	116	88	59	43	36	31	30	29
105°	188	170	147	111	79	58	43	35	30	28	27
107.5°	169	159	129	100	74	58	42	34	29	27	26
110°	147	149	120	91	72	58	40	33	28	25	24



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	139	135	111	86	72	57	39	32	27	24	22
115°	136	122	103	83	72	55	39	31	25	23	20
117.5°	127	113	96	80	68	51	35	28	23	21	19
120°	116	107	92	77	60	44	32	26	21	19	17
122.5°	110	102	88	72	55	38	29	23	20	17	16
125°	105	97	82	66	49	34	25	21	18	16	14
127.5°	99	89	75	60	43	30	22	19	16	14	13
130°	91	81	68	52	37	26	19	17	15	13	12
132.5°	84	74	61	45	30	22	17	15	13	12	11
135°	77	67	54	37	25	18	15	14	12	10	9
137.5°	70	60	46	31	21	16	14	12	10	9	8
140°	65	54	40	26	18	14	12	11	9	8	8
142.5°	58	47	33	22	15	12	10	9	8	7	7
145°	48	38	25	16	12	10	9	8	7	6	6
147.5°	36	27	17	11	9	8	7	7	6	5	5
150°	25	16	10	8	7	7	6	6	5	5	4
152.5°	15	9	7	6	6	6	6	5	5	4	4
155°	8	5	4	4	4	4	4	4	4	4	4
157.5°	4	3	3	3	4	4	4	4	4	4	4
160°	3	3	3	3	4	4	4	4	4	4	4
162.5°	2	3	3	3	4	4	4	4	4	4	4
165°	2	3	3	3	4	4	4	4	4	4	4
167.5°	2	3	3	3	4	4	4	4	4	4	4
170°	2	3	3	3	4	4	4	4	4	4	4
172.5°	2	3	3	3	4	4	4	4	4	4	4
175°	2	3	3	3	4	4	4	4	4	4	4
177.5°	2	3	3	3	3	4	4	4	4	4	4
180°	3	3	3	3	3	3	3	3	3	3	3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	875	875	875	875	875	875	875	875	875	875	875
2.5°	912	918	924	926	925	933	936	940	946	947	947
5°	954	972	990	1004	1012	1025	1030	1031	1037	1035	1030
7.5°	979	1009	1030	1042	1047	1053	1042	1024	1007	985	968
10°	958	983	999	1001	990	962	923	880	838	794	761
12.5°	900	906	895	866	826	779	723	672	631	600	560
15°	841	809	763	709	657	591	544	499	468	438	417
17.5°	770	713	643	570	505	445	410	384	357	337	325
20°	685	610	531	459	400	351	320	303	288	273	264
22.5°	609	517	435	370	327	292	267	251	241	231	223
25°	537	439	367	314	276	251	234	220	210	204	198
27.5°	488	385	319	274	243	224	211	200	189	183	181
30°	473	359	290	251	224	208	194	186	177	171	170
32.5°	473	349	276	237	212	194	183	175	169	165	165
35°	464	346	276	234	204	186	175	168	164	163	166
37.5°	429	344	280	236	204	183	169	164	163	166	171
40°	381	325	279	240	211	183	167	162	166	171	174
42.5°	324	294	263	237	212	184	166	163	167	170	171
45°	286	263	240	223	203	180	165	161	161	162	157
47.5°	255	235	220	207	192	175	161	154	150	144	136
50°	230	214	202	193	181	168	154	143	133	126	120
52.5°	209	195	188	182	172	159	145	131	121	115	108
55°	192	180	175	172	161	149	135	121	112	103	95
57.5°	176	168	164	160	151	139	125	113	100	91	86
60°	163	156	153	148	138	127	117	103	91	85	81
62.5°	151	147	144	136	126	118	106	94	84	78	72
65°	140	139	135	125	115	106	95	85	75	67	61
67.5°	132	132	127	114	102	93	83	74	64	56	51
70°	123	124	117	102	90	80	72	62	54	46	42
72.5°	113	113	105	89	77	68	59	50	43	36	32
75°	104	102	93	77	64	55	47	39	33	26	22
77.5°	94	90	80	64	52	42	35	29	22	15	10
80°	83	77	68	53	40	31	24	17	10	5	3
82.5°	69	64	56	41	29	21	17	12	7	4	3
85°	55	51	47	34	23	18	14	10	6	4	3
87.5°	45	43	39	28	20	16	12	8	5	3	3
90°	38	37	34	24	17	14	10	7	5	3	3
92.5°	35	33	29	21	16	12	9	6	4	3	3
95°	32	30	25	18	14	11	8	6	4	3	3
97.5°	30	27	21	17	13	10	8	5	4	3	3
100°	29	25	19	15	12	10	7	5	4	3	3
102.5°	28	23	18	14	12	9	6	4	4	3	3
105°	25	21	16	13	11	8	6	4	3	3	3
107.5°	23	19	15	12	10	7	5	4	3	3	2
110°	21	17	14	11	9	7	4	3	3	3	2



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 CATALOG NUMBER: LDWP-GL-3B-ED

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	19	16	13	11	9	6	4	3	3	3	3	0°
115°	18	15	13	11	8	6	4	3	3	3	3	2.5°
117.5°	16	14	12	10	8	6	4	3	4	3	3	5°
120°	15	13	11	9	7	5	4	3	3	3	3	7.5°
122.5°	14	12	10	8	6	5	3	3	3	3	3	10°
125°	13	11	9	7	6	4	3	3	3	3	3	12.5°
127.5°	12	10	8	7	5	4	3	3	3	3	3	15°
130°	10	9	7	6	5	4	3	3	3	3	3	17.5°
132.5°	9	8	6	6	4	4	3	3	3	3	3	20°
135°	8	7	6	5	4	4	3	3	3	3	3	22.5°
137.5°	7	6	5	4	4	4	3	3	3	3	3	25°
140°	6	5	5	4	4	4	3	3	3	3	3	27.5°
142.5°	6	5	4	4	4	4	3	3	3	3	3	30°
145°	5	4	4	4	4	4	3	3	3	3	3	32.5°
147.5°	4	4	4	4	4	4	3	3	3	3	2	35°
150°	4	4	4	4	4	4	3	3	3	3	2	37.5°
152.5°	4	4	4	4	4	4	3	3	3	3	2	40°
155°	4	4	4	4	4	4	3	3	3	3	2	42.5°
157.5°	4	4	4	4	4	4	3	3	3	3	2	45°
160°	4	4	4	4	4	4	3	3	3	3	3	47.5°
162.5°	4	4	4	4	4	4	3	3	3	3	3	50°
165°	4	4	4	4	4	4	3	3	3	3	2	52.5°
167.5°	4	4	4	4	4	4	3	3	3	3	3	55°
170°	4	4	4	4	4	4	3	3	3	3	2	57.5°
172.5°	4	4	4	4	4	4	3	3	3	3	2	60°
175°	4	4	4	4	4	4	3	3	3	3	2	62.5°
177.5°	4	4	4	4	4	4	3	3	3	3	2	65°
180°	3	3	3	3	3	3	3	3	3	3	3	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°

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DISTRIBUTION (continued):

165°	170°	175°	180°
875	875	875	875
949	944	949	946
1027	1023	1023	1022
947	943	929	925
729	717	699	694
531	515	501	494
395	381	369	365
309	299	288	286
254	246	237	236
217	213	205	204
193	192	186	183
177	177	173	171
168	170	168	168
168	172	172	175
171	177	178	182
176	180	181	184
174	176	174	176
166	160	154	152
148	139	131	130
128	122	117	114
115	110	104	102
101	96	93	91
90	87	85	85
84	83	82	81
78	75	73	71
67	64	62	61
58	55	54	53
49	47	47	46
40	38	37	37
30	28	27	26
20	18	17	17
8	8	7	7
3	3	2	2
3	2	2	2
3	2	2	2
3	3	2	2
3	2	2	2
3	3	2	2
3	3	2	2
3	3	2	2
3	3	2	2
3	3	2	2
2	2	2	2
2	2	2	2
2	2	2	2

CANDELA DISTRIBUTION:

	165°
112.5°	3
115°	3
117.5°	3
120°	3
122.5°	3
125°	3
127.5°	3
130°	3
132.5°	3
135°	3
137.5°	3
140°	3
142.5°	2
145°	2
147.5°	2
150°	2
152.5°	2
155°	2
157.5°	2
160°	3
162.5°	2
165°	2
167.5°	2
170°	2
172.5°	2
175°	2
177.5°	2
180°	3

