

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: P26559

Luminaire Tested: **LDWP-GL-3B-ED-7040**

Test Date: 08/12/15

Test Information

Test Method: LM-79-08
Report Number: P26559
Test Lab: INNOVATION CENTER-P2
Test Date: 08/12/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDWP-GL-3B-ED-7040
Description: LUMARK WALPAK GLASS 2LED 4000K
Light Source: (2) 4000K COB LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.3 lumens
Efficiency: N/A
Efficacy: 120.7 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 - G2

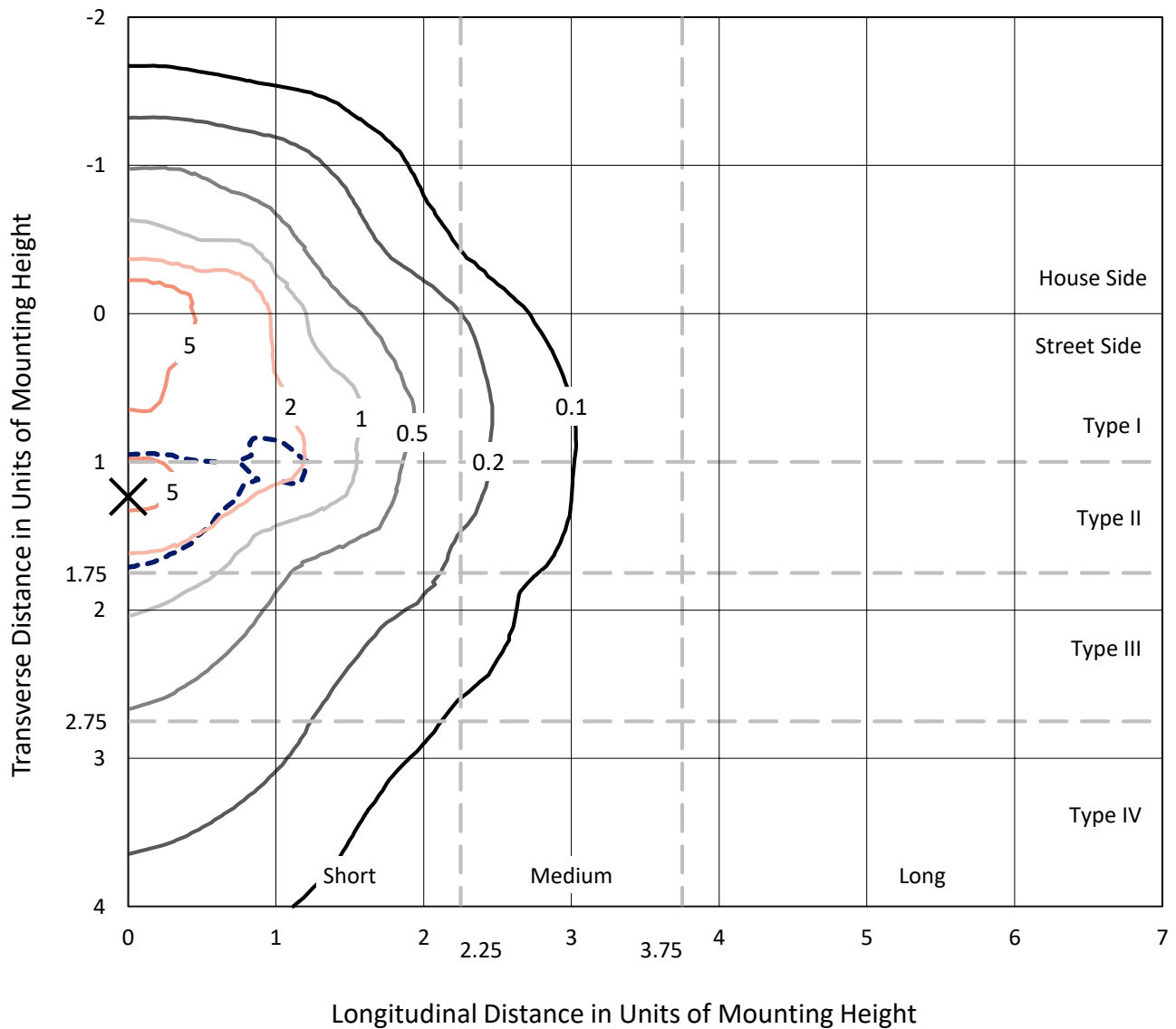
Input Watts (W): 27.1
Input Voltage (V): 120.12
Input Current (Ain): 0.22716
Voltage Rise (V): NR
Power Factor: 0.9956
Total Harmonic Distortion (THDi): 6.33%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): 25.2
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

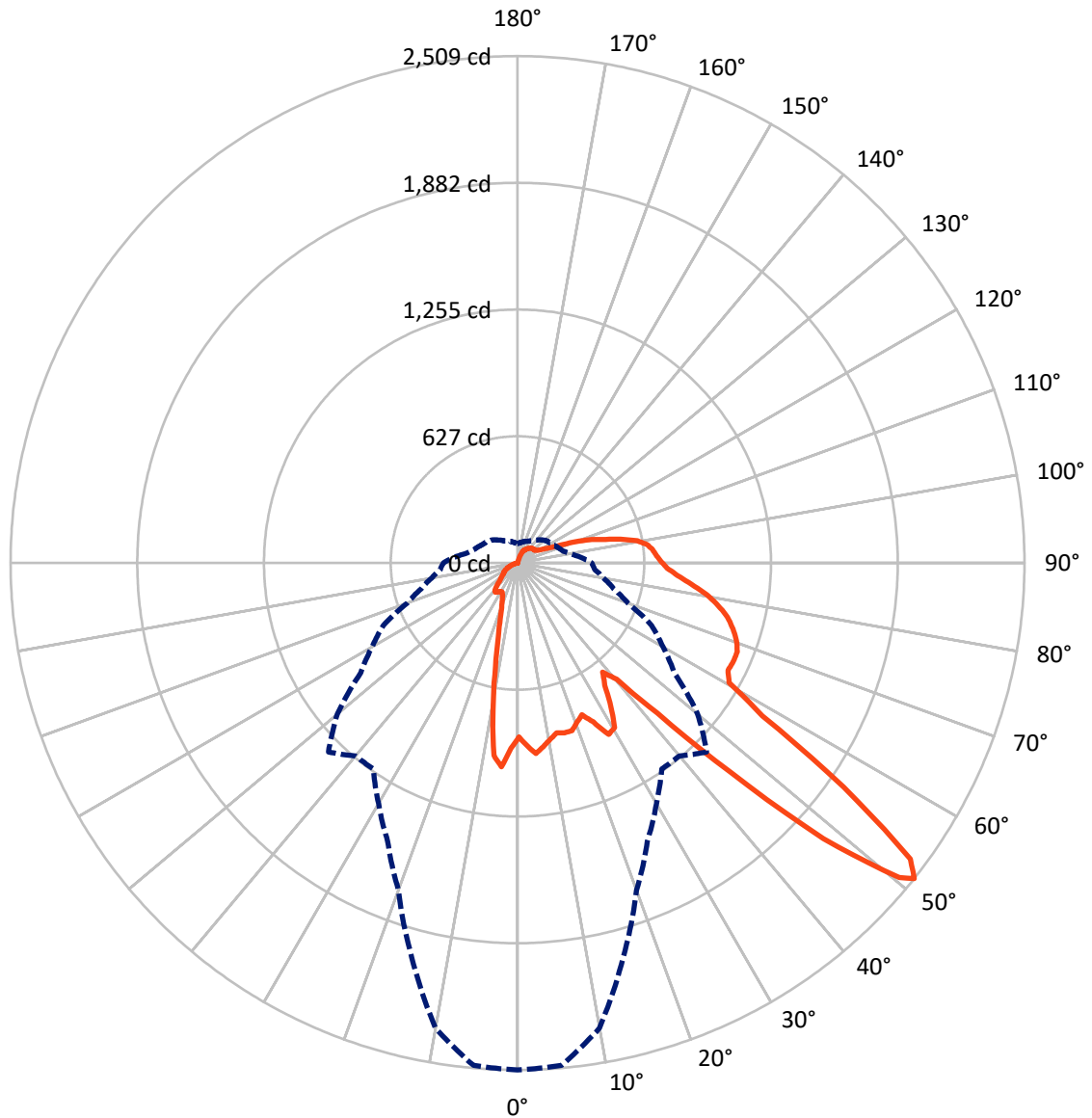
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 51-Deg Vertical

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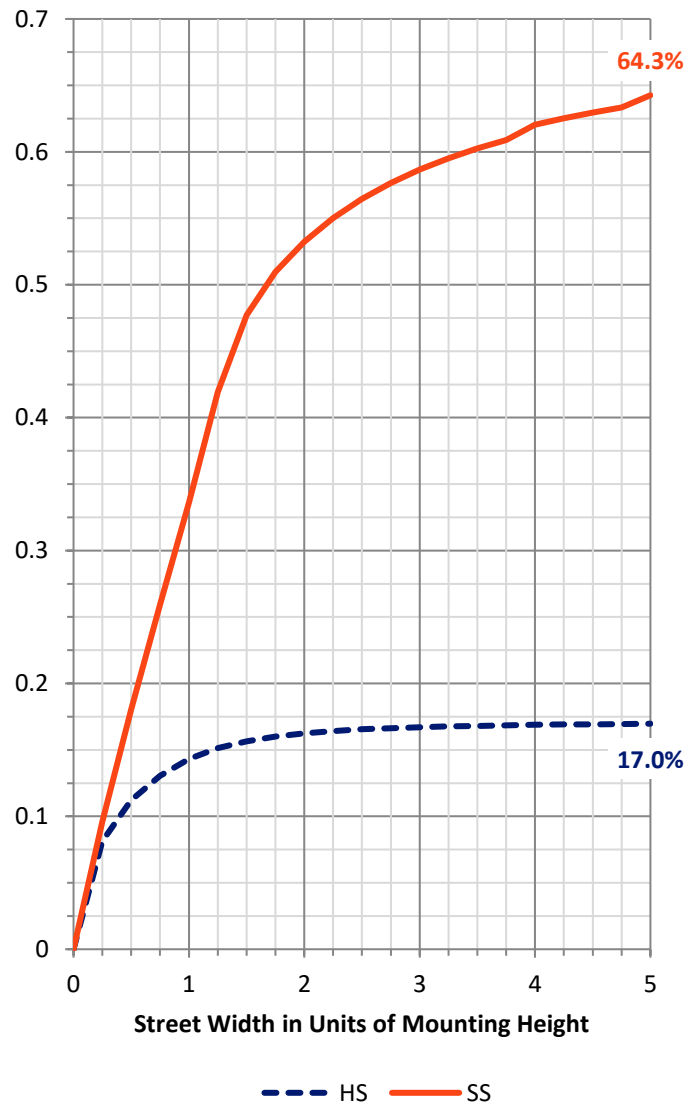
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.4	25.9	587.3
	% Fixture	17.2	0.8	18.0
Street Side	Lumens	2253.8	429.2	2683.0
	% Fixture	68.9	13.1	82.0
Total	Lumens	2815.3	455.0	3270.3
	% Fixture	86.1	13.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.7
10°-20°	203.1	6.2
20°-30°	251.2	7.7
30°-40°	320.1	9.8
40°-50°	445.9	13.6
50°-60°	565.4	17.3
60°-70°	400.0	12.2
70°-80°	306.6	9.4
80°-90°	234.0	7.2
90°-100°	179.6	5.5
100°-110°	115.1	3.5
110°-120°	62.4	1.9
120°-130°	42.3	1.3
130°-140°	29.9	0.9
140°-150°	17.4	0.5
150°-160°	7.1	0.2
160°-170°	1.1	0.0
170°-180°	0.2	0.0
0°-90°	2815.3	86.1
0°-180°	3270.3	100.0



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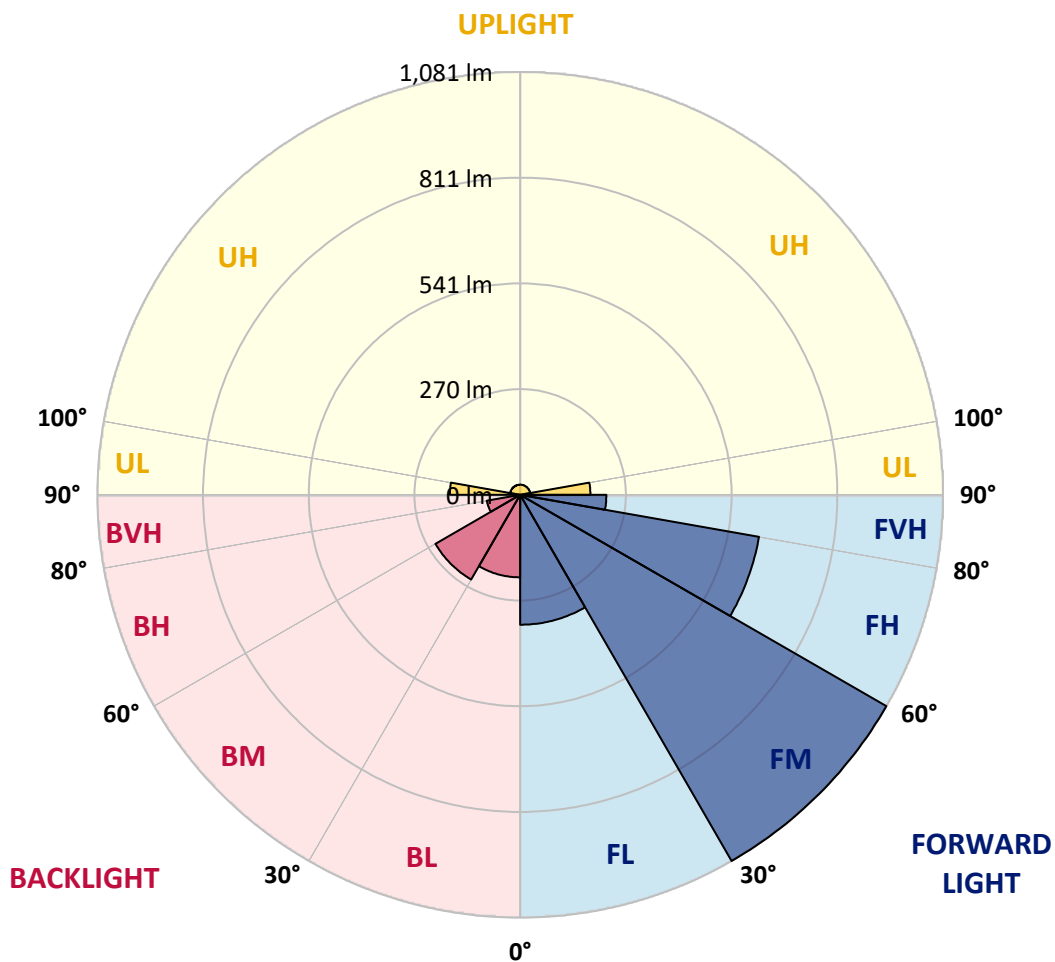
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.2	10.2			
FM (30°-60°)	1081.2	33.1			
FH (60°-80°)	620.1	19.0			G0/660
FVH (80°-90°)	220.3	6.7			G2/225
BL (0°-30°)	211.0	6.5	B1/500		
BM (30°-60°)	250.2	7.7	B1/1000		
BH (60°-80°)	86.6	2.6	B0/110		G0/110
BVH (80°-90°)	13.7	0.4			G1/100
UL (90°-100°)	179.6	5.5		U3/500	
UH (100°-180°)	25.9	0.8		U2/50	

BUG Rating: B1-U3-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	861	861	861	861	861	861	861	861	861	861	861
2.5°	905	901	907	901	904	902	900	897	895	892	885
5°	947	947	953	958	962	963	969	972	974	975	968
7.5°	918	924	932	946	959	973	984	990	989	990	987
10°	887	887	906	925	938	949	960	964	962	960	949
12.5°	863	868	889	905	919	930	941	942	929	909	888
15°	872	875	896	905	913	919	918	900	874	855	839
17.5°	872	875	894	898	899	893	864	834	814	803	796
20°	841	845	866	870	870	839	794	762	750	740	750
22.5°	816	824	840	844	828	777	731	702	688	685	691
25°	871	869	883	871	817	751	703	669	658	648	649
27.5°	961	958	972	940	849	761	686	647	623	622	633
30°	946	966	992	966	886	784	701	640	602	598	613
32.5°	850	872	923	901	848	774	715	659	614	593	580
35°	743	760	812	806	761	727	691	666	639	599	572
37.5°	685	686	720	703	671	664	658	652	642	621	617
40°	757	760	785	739	684	663	669	678	661	657	695
42.5°	1016	1024	1037	960	844	782	765	741	722	740	794
45°	1474	1488	1434	1276	1087	980	923	851	851	884	891
47.5°	2038	2014	1907	1656	1395	1230	1114	1025	1023	1062	986
50°	2448	2440	2286	1966	1669	1472	1317	1192	1190	1264	1109
51°	2509	2496	2337	2021	1723	1520	1375	1244	1246	1323	1164
52.5°	2434	2422	2280	1985	1718	1538	1401	1285	1279	1403	1235
55°	1959	1944	1859	1666	1500	1363	1298	1243	1237	1413	1303
57.5°	1428	1427	1375	1288	1183	1051	1015	1053	1152	1308	1286
60°	1203	1168	1121	1064	986	849	769	791	948	1113	1172
62.5°	1169	1111	1034	947	874	756	658	628	746	864	1009
65°	1174	1107	1006	904	809	698	611	550	597	676	782
67.5°	1173	1103	997	889	782	664	579	519	515	564	620
70°	1150	1083	983	875	765	638	555	507	480	505	501
72.5°	1115	1056	956	851	741	612	532	495	461	470	450
75°	1074	1012	916	817	712	585	509	486	451	453	422
77.5°	1016	963	865	773	674	552	484	468	446	441	407
80°	950	901	810	722	633	523	458	450	437	435	396
82.5°	867	827	745	671	592	494	430	423	421	431	381
85°	794	760	689	628	561	472	412	402	409	421	365
87.5°	741	708	648	593	534	452	399	390	398	408	346
90°	711	673	618	566	510	437	386	379	384	385	321
92.5°	689	650	595	545	493	421	371	360	372	354	297
95°	673	632	578	529	474	402	355	343	346	321	277
97.5°	649	608	554	503	443	373	327	317	307	288	253
100°	603	566	508	456	400	336	297	279	266	257	233
102.5°	523	487	438	388	344	295	263	240	231	227	211
105°	433	405	364	326	297	258	224	200	199	199	189
107.5°	373	349	307	280	252	212	182	170	170	174	169



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	292	272	242	219	197	171	152	146	148	153	151
112.5°	215	203	186	174	161	145	133	129	130	137	137
115°	173	166	156	148	139	129	120	116	116	122	125
117.5°	147	143	138	132	124	117	110	106	108	113	120
120°	128	126	121	117	112	107	102	101	104	110	117
122.5°	115	113	110	107	103	101	100	100	104	109	112
125°	108	107	104	103	100	101	100	102	105	107	108
127.5°	105	104	103	103	102	102	103	104	105	106	104
130°	106	105	105	104	102	102	103	103	103	103	97
132.5°	103	103	103	102	101	101	100	99	99	96	90
135°	102	101	101	101	99	97	96	95	93	90	84
137.5°	99	98	98	97	95	93	91	89	86	82	77
140°	95	94	94	93	91	88	86	82	79	75	69
142.5°	91	91	90	87	85	82	80	77	72	67	61
145°	86	86	83	81	79	76	73	69	64	59	54
147.5°	81	80	78	75	72	69	66	62	57	52	44
150°	75	74	72	69	66	63	59	55	50	42	32
152.5°	69	69	67	65	62	59	54	47	38	30	22
155°	63	63	62	60	56	52	45	36	27	20	12
157.5°	52	52	51	48	43	37	30	22	16	10	6
160°	33	33	32	28	25	21	15	10	6	5	3
162.5°	15	15	14	12	9	6	5	4	3	3	2
165°	3	3	3	3	3	3	2	2	2	2	2
167.5°	1	1	1	2	2	1	1	1	2	2	2
170°	0	1	1	1	1	2	2	1	2	2	2
172.5°	0	0	1	1	1	1	1	1	2	2	2
175°	0	0	1	1	1	1	1	1	2	2	2
177.5°	0	0	1	1	1	1	1	1	2	2	2
180°	2	2	2	2	2	2	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	861	861	861	861	861	861	861	861	861	861	861
2.5°	882	882	881	881	877	877	875	873	870	870	868
5°	960	951	940	927	917	909	903	898	896	897	903
7.5°	981	970	954	935	909	891	877	869	871	877	898
10°	935	916	900	884	864	840	822	814	826	841	881
12.5°	870	853	834	815	802	779	761	753	768	791	840
15°	818	805	792	777	763	742	722	714	731	764	808
17.5°	791	780	768	747	729	710	688	681	703	745	775
20°	754	752	732	721	703	683	665	663	685	721	732
22.5°	700	713	714	705	697	676	657	654	681	706	689
25°	666	684	708	701	683	656	636	640	666	681	639
27.5°	641	654	673	680	673	658	644	651	680	672	603
30°	610	611	655	697	707	697	689	697	720	699	608
32.5°	580	608	676	747	772	766	757	771	781	742	620
35°	589	634	703	790	820	802	793	803	799	737	598
37.5°	638	662	709	788	805	781	766	762	752	666	539
40°	710	689	700	741	735	710	679	666	644	552	446
42.5°	781	720	692	678	654	602	571	567	528	438	361
45°	853	765	684	631	586	529	491	485	437	362	303
47.5°	905	806	682	580	523	475	433	429	373	310	273
50°	933	825	710	572	496	441	397	383	330	273	242
51°	947	831	733	581	493	433	384	367	316	262	232
52.5°	983	854	769	611	498	429	373	347	295	244	220
55°	1044	897	826	673	530	434	368	328	266	223	200
57.5°	1103	924	860	742	569	450	371	322	252	206	183
60°	1075	871	823	750	564	442	384	332	252	195	166
62.5°	942	748	716	683	526	430	384	330	255	183	155
65°	730	629	590	570	477	410	372	312	232	164	148
67.5°	548	535	511	467	432	377	335	286	196	149	135
70°	446	476	459	406	389	342	295	237	159	142	122
72.5°	392	426	414	378	356	315	262	182	139	118	110
75°	361	386	384	365	334	305	241	147	122	102	100
77.5°	338	353	370	342	318	303	197	130	95	87	91
80°	321	329	354	324	291	253	169	116	80	76	83
82.5°	303	320	332	295	272	199	133	84	63	68	72
85°	283	319	314	262	225	159	102	61	50	55	58
87.5°	268	303	296	238	187	131	83	45	41	43	46
90°	253	284	271	205	157	118	58	35	35	37	38
92.5°	240	274	254	178	136	106	50	31	32	34	35
95°	231	258	235	156	121	75	42	30	31	32	32
97.5°	218	236	205	133	116	66	38	30	30	30	30
100°	202	219	174	128	91	59	38	32	29	28	29
102.5°	189	201	149	129	80	55	39	33	28	27	27
105°	175	174	138	107	75	55	40	32	28	27	26
107.5°	161	149	138	93	71	55	39	31	27	25	25



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
110°	145	140	121	86	70	55	38	31	27	24	23
112.5°	131	138	106	83	69	55	37	30	25	23	22
115°	129	126	98	81	69	53	36	30	24	22	20
117.5°	127	113	94	79	66	46	34	27	23	20	18
120°	118	105	91	75	60	40	30	25	21	19	17
122.5°	110	101	87	71	53	36	27	22	19	17	15
125°	105	96	81	65	47	32	24	20	18	16	14
127.5°	98	87	74	59	40	29	22	18	16	14	13
130°	90	79	67	52	34	24	19	16	14	12	11
132.5°	82	72	59	43	29	20	16	14	13	11	10
135°	75	65	53	36	24	18	15	13	11	10	9
137.5°	69	59	45	29	20	16	13	11	10	9	8
140°	64	54	37	24	17	14	12	10	9	8	7
142.5°	56	46	32	20	14	11	10	9	8	7	6
145°	46	36	24	15	11	9	8	8	7	6	6
147.5°	34	25	15	10	8	7	7	7	6	5	5
150°	23	14	9	7	7	6	6	6	5	5	4
152.5°	14	8	6	5	5	5	5	5	4	4	4
155°	7	5	4	4	4	4	4	4	4	4	4
157.5°	4	3	3	3	3	3	4	4	4	4	4
160°	2	2	2	3	3	3	3	4	4	4	4
162.5°	2	2	3	3	3	3	4	4	4	4	4
165°	2	2	3	3	3	3	4	4	4	4	4
167.5°	2	2	3	3	3	3	4	4	4	4	4
170°	2	3	3	3	3	3	4	4	4	4	4
172.5°	2	2	2	3	3	3	3	4	4	3	4
175°	2	2	2	3	3	3	3	4	4	4	4
177.5°	2	2	3	3	3	3	3	4	3	4	4
180°	2	2	2	2	2	2	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	861	861	861	861	861	861	861	861	861	861	861
2.5°	871	872	875	877	884	888	895	896	901	907	911
5°	913	929	943	953	968	980	986	990	993	999	1002
7.5°	925	955	981	997	1010	1022	1023	1017	1009	993	980
10°	917	947	970	978	973	958	931	904	875	831	801
12.5°	870	889	894	874	832	796	738	697	658	616	587
15°	820	808	779	723	664	602	548	514	485	454	432
17.5°	766	720	658	578	510	459	411	384	364	345	332
20°	689	617	537	458	399	353	318	300	288	276	270
22.5°	621	525	438	371	322	290	266	249	241	229	225
25°	555	449	367	310	275	248	231	219	209	200	197
27.5°	491	384	318	273	243	223	207	197	189	180	176
30°	467	351	284	245	222	205	191	180	175	168	165
32.5°	459	339	267	230	208	191	178	170	165	161	160
35°	446	337	265	226	199	181	171	162	159	158	162
37.5°	419	332	272	227	196	178	165	158	157	160	167
40°	375	317	272	231	202	177	161	156	159	165	170
42.5°	324	291	259	231	208	178	159	157	161	165	169
45°	282	260	238	218	200	176	160	156	157	160	158
47.5°	248	234	217	203	189	172	158	151	148	143	137
50°	225	211	199	190	179	165	152	142	133	124	119
51°	217	203	192	185	175	162	148	137	126	119	114
52.5°	206	192	184	178	170	158	144	129	118	113	107
55°	186	177	173	167	161	149	133	119	109	100	93
57.5°	168	164	161	155	149	138	124	110	98	88	83
60°	157	152	150	143	137	127	115	100	88	82	78
62.5°	145	141	140	133	124	116	105	91	81	75	70
65°	135	132	132	123	112	104	94	82	72	64	59
67.5°	126	126	123	112	100	91	83	71	62	53	49
70°	117	119	112	99	87	78	70	60	50	43	40
72.5°	109	110	101	86	74	65	58	48	40	34	30
75°	101	100	90	74	61	52	45	37	31	24	20
77.5°	91	89	78	61	49	40	34	27	20	13	10
80°	80	76	66	49	37	29	22	16	9	3	1
82.5°	67	63	55	39	26	18	14	9	4	1	0
85°	53	50	46	31	20	15	11	6	3	1	0
87.5°	42	41	39	25	17	13	9	5	2	1	0
90°	36	34	32	21	15	11	7	4	2	1	0
92.5°	32	31	27	18	13	10	6	3	1	1	1
95°	30	29	22	16	12	9	6	3	1	1	1
97.5°	29	26	19	15	11	9	6	3	2	1	1
100°	28	24	18	14	11	8	5	3	2	2	1
102.5°	26	22	16	13	10	8	5	3	2	2	2
105°	25	20	15	12	10	7	5	2	2	2	2
107.5°	22	18	14	11	9	7	4	2	2	2	2



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
110°	20	16	13	11	8	6	4	2	2	2	2	0°
112.5°	18	15	12	10	8	6	4	2	2	2	2	2.5°
115°	17	14	12	10	8	6	4	2	3	3	3	5°
117.5°	16	13	11	9	7	5	3	3	3	3	3	7.5°
120°	15	12	11	9	7	5	3	3	3	3	3	10°
122.5°	14	12	10	8	6	4	3	3	3	3	3	12.5°
125°	13	11	9	7	6	4	3	3	3	3	3	15°
127.5°	12	10	8	6	5	4	3	3	3	3	3	17.5°
130°	10	9	7	6	4	4	3	3	3	3	3	20°
132.5°	9	8	6	5	4	3	3	3	3	3	3	22.5°
135°	8	7	6	5	4	4	3	3	3	3	3	25°
137.5°	7	6	5	4	4	4	3	3	3	3	2	27.5°
140°	6	5	4	4	4	4	3	3	3	3	3	30°
142.5°	6	5	4	4	4	4	3	3	3	3	3	32.5°
145°	5	4	4	4	4	3	3	3	3	3	2	35°
147.5°	4	4	4	4	4	4	3	3	3	3	2	37.5°
150°	4	4	4	4	4	4	3	3	3	3	2	40°
152.5°	4	4	4	4	4	4	3	3	3	3	2	42.5°
155°	4	4	4	4	4	4	3	3	3	3	2	45°
157.5°	4	4	4	4	4	4	3	3	3	3	2	47.5°
160°	4	4	4	4	4	3	3	3	3	2	2	50°
162.5°	4	4	4	4	4	4	3	3	3	3	2	51°
165°	4	4	4	4	4	3	3	3	3	3	2	52.5°
167.5°	4	4	4	4	4	3	3	3	3	3	2	55°
170°	4	4	4	4	4	3	3	3	3	3	2	57.5°
172.5°	3	3	4	4	3	3	3	2	2	2	2	60°
175°	4	3	4	4	3	3	3	2	2	2	2	62.5°
177.5°	4	3	4	4	3	3	3	2	2	2	2	65°
180°	2	2	2	2	2	2	2	2	2	2	2	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°

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DISTRIBUTION (continued):

165°	170°	175°	180°
861	861	861	861
917	913	920	917
1007	1008	1013	1011
962	960	951	960
763	749	728	733
552	538	520	521
406	395	379	377
315	304	293	291
257	247	238	235
217	211	204	200
192	187	181	178
176	173	168	165
165	165	162	162
164	166	166	166
168	171	175	175
172	175	180	182
172	172	175	175
167	160	156	154
149	139	132	129
128	122	116	114
114	110	104	102
109	104	99	97
100	96	91	90
88	86	84	83
81	81	80	79
75	74	71	70
65	64	60	59
55	54	52	52
46	46	45	44
37	37	35	35
28	27	25	25
18	17	15	16
7	6	5	6
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
1	1	0	0
1	1	1	1
1	1	1	1
1	1	1	1
1	1	1	1
2	2	1	1
2	2	1	1

CANDELA DISTRIBUTION:

	165°
110°	2
112.5°	2
115°	2
117.5°	3
120°	2
122.5°	3
125°	3
127.5°	3
130°	2
132.5°	2
135°	2
137.5°	2
140°	2
142.5°	2
145°	2
147.5°	2
150°	2
152.5°	2
155°	2
157.5°	2
160°	2
162.5°	2
165°	2
167.5°	2
170°	2
172.5°	2
175°	2
177.5°	2
180°	2

