

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: P188992

Luminaire Tested: **LCWP1050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188992
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LCWP1050
Description: C&I LED WALLPACK WITH LENS
Light Source: -
Ballast/Driver: -

Summary

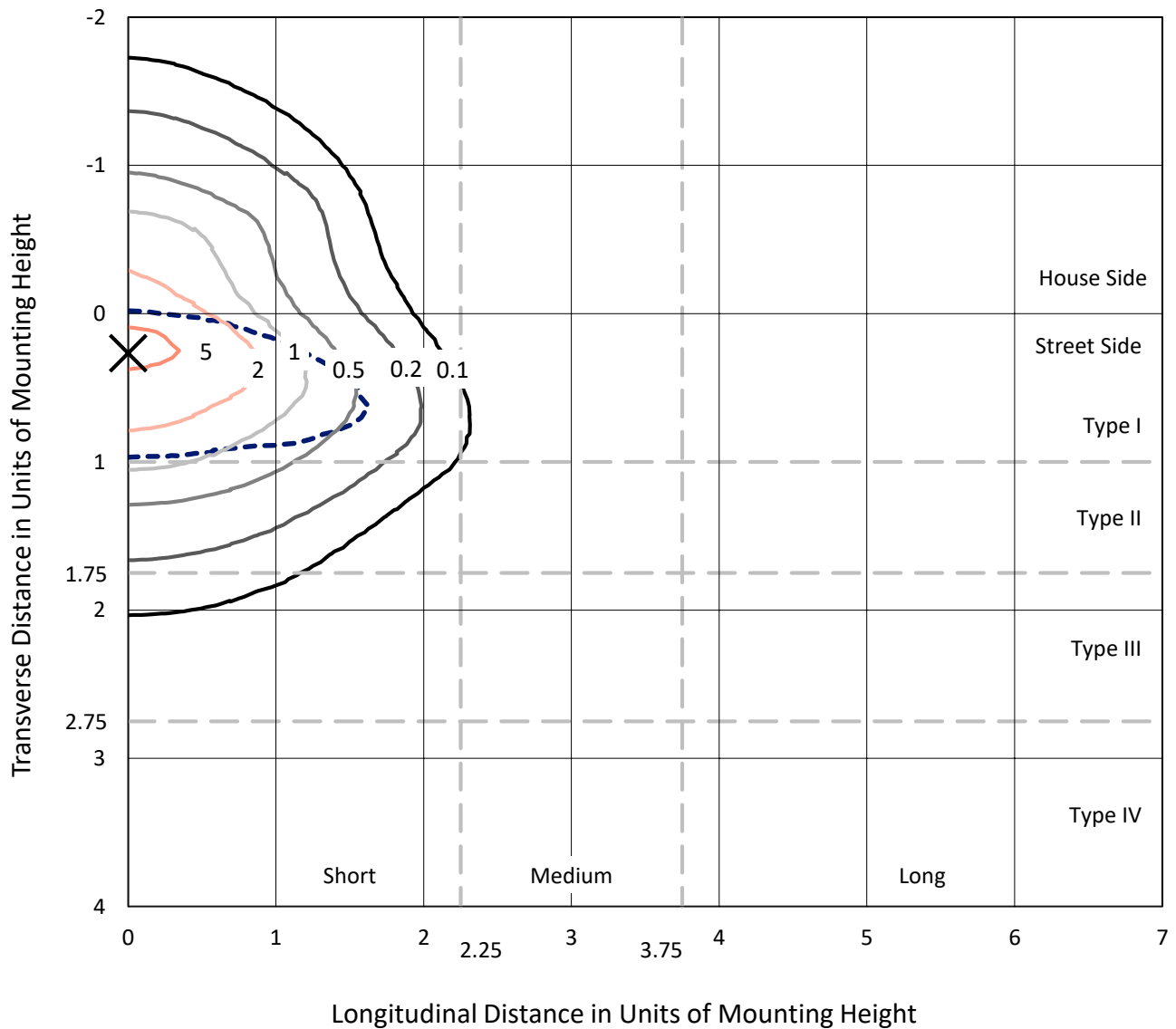
Lumens per Lamp: N/A
Luminaire Lumens: 1099.5 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.19' x H: 0.04')
IES Classification: Type I - Short - Cutoff
BUG Rating: B0 - U1 - G1

Input Watts (W): 12.3
Input Voltage (V): 120.05
Input Current (A_{in}): 0.10386
Voltage Rise (V): NR
Power Factor: 0.9957
Total Harmonic Distortion (THDi): 14.2%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): 25.1
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

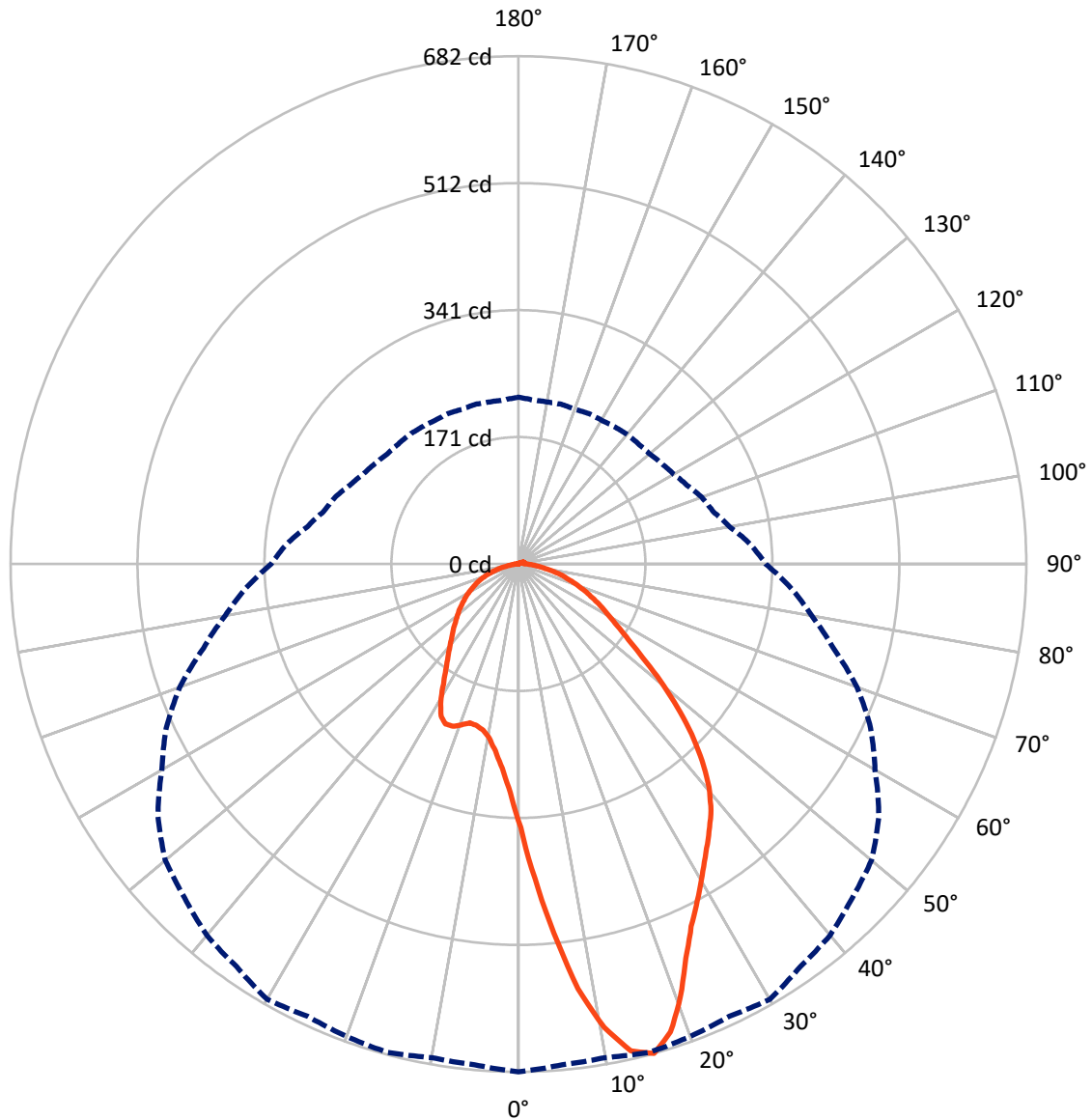
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type I - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 15-Deg Vertical

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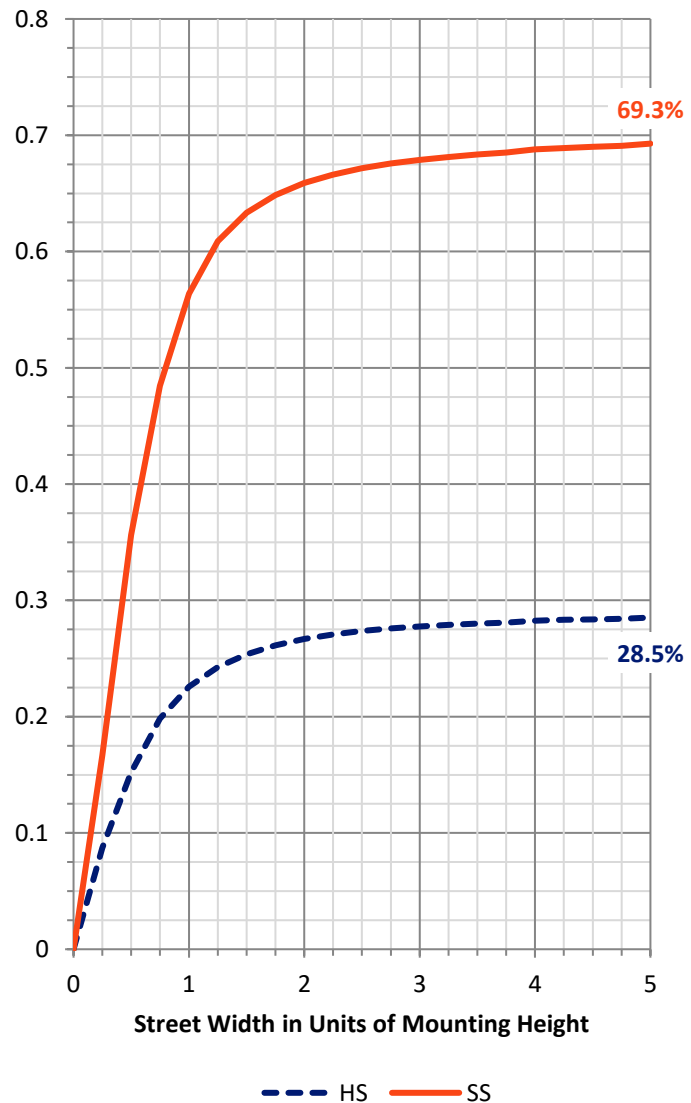
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	317.6	5.1	322.7
	% Fixture	28.9	0.5	29.3
Street Side	Lumens	766.1	10.7	776.8
	% Fixture	69.7	1.0	70.7
Total	Lumens	1083.8	15.7	1099.5
	% Fixture	98.6	1.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	3.3
10°-20°	115.6	10.5
20°-30°	178.1	16.2
30°-40°	208.3	18.9
40°-50°	204.7	18.6
50°-60°	165.8	15.1
60°-70°	104.8	9.5
70°-80°	50.7	4.6
80°-90°	19.6	1.8
90°-100°	6.6	0.6
100°-110°	3.9	0.4
110°-120°	2.6	0.2
120°-130°	1.4	0.1
130°-140°	0.7	0.1
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1083.8	98.6
0°-180°	1099.5	100.0



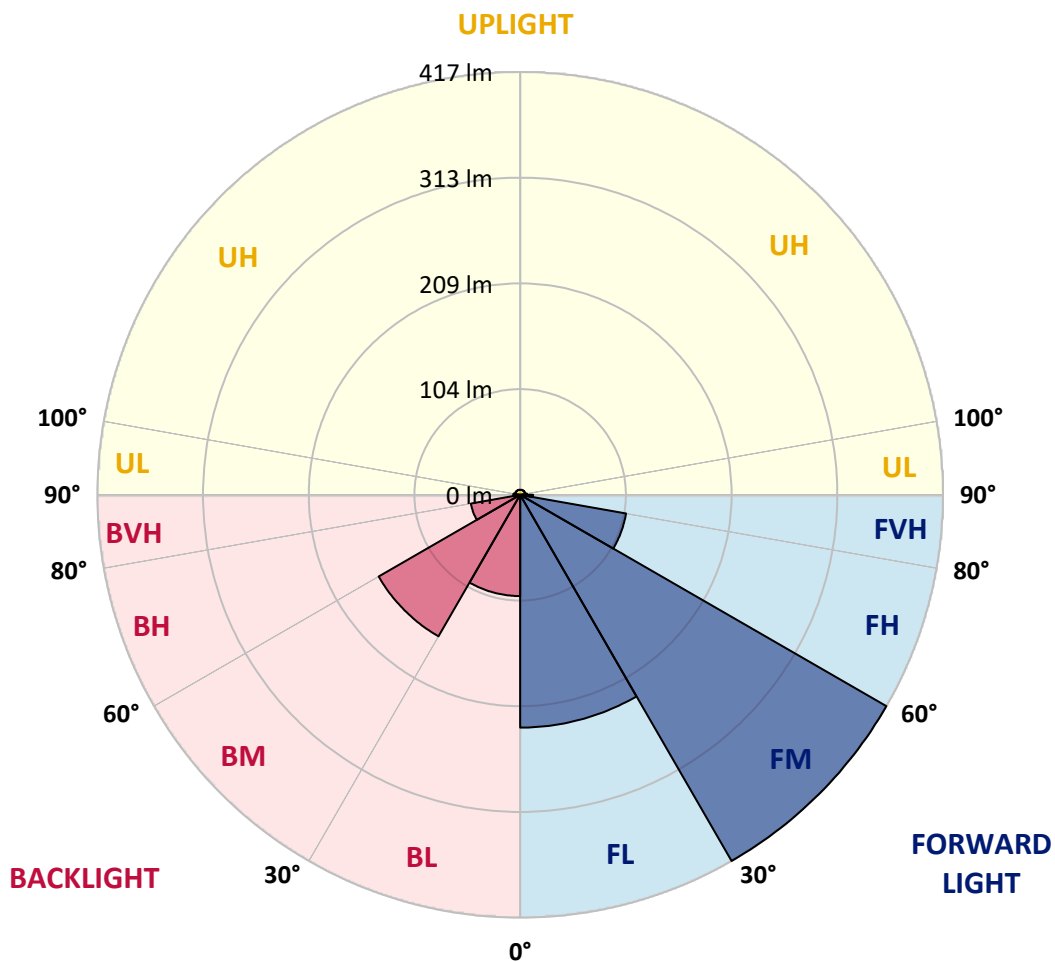
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.8	20.9			
FM	(30°-60°)	417.5	38.0			
FH	(60°-80°)	106.2	9.7			G0/660
FVH	(80°-90°)	12.7	1.2			G1/100
BL	(0°-30°)	100.0	9.1	B0/110		
BM	(30°-60°)	161.3	14.7	B0/220		
BH	(60°-80°)	49.4	4.5	B0/110		G0/110
BVH	(80°-90°)	6.9	0.6			G0/10
UL	(90°-100°)	6.6	0.6		U1/10	
UH	(100°-180°)	5.1	0.5		U1/10	

BUG Rating: B0-U1-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	354	354	354	354	354	354	354	354	354	354	354
2.5°	423	414	412	413	409	404	408	401	398	395	392
5°	498	491	488	487	481	473	474	463	455	447	438
7.5°	576	565	562	561	552	542	541	526	514	500	487
10°	633	625	621	622	612	600	599	580	566	549	533
12.5°	671	663	660	663	654	646	646	625	614	597	578
15°	682	675	673	679	675	670	675	660	651	634	619
17.5°	661	656	655	664	666	667	679	669	667	656	644
20°	621	617	616	628	634	641	660	659	665	661	657
22.5°	575	571	571	583	592	602	625	631	645	652	657
25°	539	535	536	548	553	566	589	597	620	635	650
27.5°	512	506	507	519	526	534	555	565	589	610	634
30°	486	481	481	491	497	505	524	533	555	579	609
32.5°	462	458	458	466	472	477	494	502	523	545	579
35°	441	436	437	445	450	453	468	474	494	517	550
37.5°	420	415	417	424	428	431	444	449	467	489	522
40°	394	389	393	400	405	408	419	423	439	460	493
42.5°	362	361	364	373	378	382	394	398	413	432	466
45°	326	325	330	339	348	353	367	373	387	405	436
47.5°	287	288	293	302	312	320	337	346	362	381	411
50°	247	247	253	261	274	284	304	318	336	355	383
52.5°	209	209	214	226	234	246	267	285	307	329	356
55°	179	179	183	189	196	206	226	246	271	299	327
57.5°	156	156	158	162	167	173	186	198	218	248	284
60°	138	138	139	142	145	149	159	167	179	195	223
62.5°	124	125	126	128	129	131	138	143	150	164	184
65°	109	108	111	112	114	116	121	123	127	133	145
67.5°	96	96	97	99	100	101	105	107	110	111	117
70°	83	84	84	85	86	88	91	92	93	95	98
72.5°	70	71	73	73	74	75	78	78	79	80	82
75°	60	61	62	62	63	64	66	66	66	67	68
77.5°	48	49	50	51	53	54	56	56	55	56	57
80°	36	37	38	39	40	42	45	46	46	46	46
82.5°	29	29	30	31	32	33	35	35	36	37	38
85°	21	22	23	23	25	26	27	27	28	28	29
87.5°	15	15	16	17	18	19	20	21	21	22	22
90°	10	11	11	12	13	14	15	15	16	17	17
92.5°	7	7	8	9	10	10	10	11	12	12	13
95°	7	7	7	7	7	7	8	8	8	9	10
97.5°	7	6	7	7	7	6	6	6	7	7	7
100°	7	7	7	7	7	6	6	6	6	6	6
102.5°	7	7	7	7	7	7	6	6	6	6	6
105°	8	8	8	7	8	7	7	6	6	6	6
107.5°	7	7	6	6	7	7	7	7	6	6	6
110°	7	7	6	6	6	5	6	6	6	6	6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	6	6	6	6	6	5	5	5	5	5	5
115°	4	4	4	4	4	4	4	4	4	4	5
117.5°	4	4	4	4	3	3	3	4	4	4	4
120°	4	3	3	3	3	3	3	3	3	3	4
122.5°	3	3	3	3	3	2	2	2	2	3	3
125°	3	3	3	3	3	2	2	2	2	2	2
127.5°	2	3	3	3	2	2	2	2	2	2	2
130°	2	2	2	2	2	2	2	2	2	2	2
132.5°	2	2	2	2	2	1	1	1	1	1	1
135°	2	2	2	2	1	1	1	1	1	1	1
137.5°	1	1	1	1	1	1	1	1	1	1	1
140°	1	1	1	1	1	0	0	0	0	1	1
142.5°	1	1	1	0	0	0	0	0	0	0	1
145°	0	0	0	0	0	0	0	0	0	0	1
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	354	354	354	354	354	354	354	354	354	354	354
2.5°	387	379	378	374	365	361	357	349	349	341	336
5°	427	414	406	397	382	373	364	350	346	334	325
7.5°	470	450	436	421	399	383	368	349	340	324	312
10°	511	485	465	441	413	389	369	345	331	312	297
12.5°	553	520	494	464	426	395	369	338	321	300	284
15°	591	553	522	484	438	400	367	332	312	288	271
17.5°	618	578	543	499	447	401	362	323	299	275	258
20°	636	597	560	512	454	402	358	315	289	263	246
22.5°	644	609	574	524	461	403	353	306	278	252	235
25°	647	619	590	537	469	404	349	299	269	242	226
27.5°	643	626	601	549	476	404	344	291	260	233	218
30°	629	623	605	555	479	401	336	280	248	223	208
32.5°	608	613	603	556	479	395	326	269	238	212	199
35°	583	598	597	555	476	387	315	257	226	202	190
37.5°	558	581	587	550	470	378	303	245	213	191	180
40°	529	557	571	539	460	365	289	231	201	180	170
42.5°	502	531	551	525	446	351	275	217	188	168	161
45°	473	504	527	506	431	337	262	205	175	158	152
47.5°	443	472	502	486	414	321	246	190	162	147	142
50°	412	441	471	462	393	302	229	175	150	135	131
52.5°	382	409	443	436	372	281	210	160	136	123	120
55°	354	378	409	408	348	259	191	144	123	111	108
57.5°	319	347	378	376	319	238	174	130	110	98	95
60°	261	301	339	342	290	215	157	117	98	86	83
62.5°	207	241	289	302	256	188	135	102	86	76	72
65°	165	192	230	250	216	157	114	86	72	64	61
67.5°	126	148	181	193	169	128	92	69	59	53	51
70°	101	111	135	143	116	89	67	52	46	43	41
72.5°	84	89	100	102	79	53	43	36	34	33	33
75°	69	73	77	72	47	36	29	26	26	25	25
77.5°	57	58	59	48	30	25	22	21	20	20	21
80°	47	46	44	30	23	19	17	17	17	17	17
82.5°	37	35	29	21	17	15	14	13	14	14	14
85°	30	27	20	16	13	12	11	11	11	11	11
87.5°	23	19	15	12	10	10	9	9	9	9	9
90°	17	14	11	9	8	8	8	7	8	7	7
92.5°	13	11	8	7	6	6	6	6	6	6	5
95°	10	8	7	6	5	5	5	5	5	4	4
97.5°	7	7	5	5	4	4	4	4	4	3	3
100°	6	5	5	4	4	4	3	3	3	3	3
102.5°	5	5	4	4	4	3	3	3	3	2	2
105°	5	5	4	4	3	3	3	2	2	2	2
107.5°	5	5	4	3	3	3	2	2	2	2	2
110°	5	4	4	3	3	3	2	2	2	2	2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	5	4	4	3	3	3	2	2	2	2	2
115°	4	4	3	3	3	2	2	2	2	1	1
117.5°	4	4	3	3	2	2	2	2	1	1	1
120°	3	3	3	3	2	2	2	1	1	1	1
122.5°	3	3	3	2	2	2	2	1	1	1	1
125°	2	3	3	2	2	2	1	1	1	1	1
127.5°	2	2	2	1	1	1	1	1	1	1	1
130°	1	1	1	1	1	1	1	1	1	1	1
132.5°	1	1	1	1	1	1	1	1	1	1	1
135°	1	1	1	1	1	1	1	1	1	1	1
137.5°	1	1	1	1	1	1	1	1	1	1	1
140°	1	1	1	1	1	1	1	1	1	1	1
142.5°	1	1	1	1	0	0	0	0	0	1	1
145°	1	1	1	1	0	1	1	1	1	1	1
147.5°	0	0	0	1	0	1	1	1	1	1	1
150°	0	0	1	1	1	1	1	1	1	1	1
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	1	0	0	0	1	0	0	1	1	0	1
157.5°	1	0	0	0	0	0	0	1	1	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	354	354	354	354	354	354	354	354	354	354	354
2.5°	337	331	325	323	318	317	316	313	312	309	307
5°	322	312	304	300	294	290	289	285	282	279	276
7.5°	306	294	285	279	273	269	267	263	263	258	254
10°	290	277	267	261	255	251	249	245	242	241	238
12.5°	274	262	252	247	241	238	236	233	230	229	227
15°	262	250	241	235	230	228	227	225	223	223	221
17.5°	249	237	229	225	221	219	220	218	217	219	219
20°	238	228	220	217	214	213	215	216	216	220	221
22.5°	227	218	211	210	208	210	214	216	218	223	225
25°	219	211	206	206	207	209	214	218	220	226	227
27.5°	212	205	202	204	205	209	215	218	220	223	223
30°	204	199	197	200	202	206	212	213	213	214	211
32.5°	196	192	191	195	197	201	204	204	201	200	194
35°	187	184	184	188	191	193	194	192	187	183	176
37.5°	178	176	177	181	183	183	182	177	170	166	160
40°	170	169	170	173	172	170	167	160	154	151	146
42.5°	162	163	164	166	163	158	152	145	140	138	134
45°	154	156	158	160	157	148	140	133	128	126	123
47.5°	146	149	153	158	150	138	129	122	118	116	114
50°	135	140	147	151	140	125	117	112	108	107	105
52.5°	124	129	135	137	122	111	106	102	99	98	97
55°	111	116	122	116	106	98	96	92	90	90	89
57.5°	97	102	104	98	92	89	86	84	82	82	81
60°	84	86	86	84	82	80	78	76	75	74	74
62.5°	72	73	73	74	73	72	71	69	68	68	67
65°	62	63	64	65	66	65	64	62	61	61	61
67.5°	53	55	56	58	59	58	57	56	54	54	54
70°	44	47	50	52	52	51	50	49	47	47	47
72.5°	36	39	43	45	45	45	44	43	41	40	39
75°	28	32	36	39	39	39	38	37	35	34	32
77.5°	22	25	29	32	33	33	32	31	29	27	25
80°	18	19	22	26	28	28	27	25	23	20	19
82.5°	14	15	17	21	23	23	22	20	17	15	13
85°	11	12	13	16	18	18	17	15	12	10	8
87.5°	10	9	10	12	14	14	13	10	8	6	5
90°	8	7	7	8	10	10	9	7	5	5	4
92.5°	5	5	5	6	7	7	6	5	4	4	4
95°	4	4	4	4	5	5	4	4	3	3	3
97.5°	3	3	3	3	3	3	3	3	3	3	3
100°	3	2	2	2	3	3	3	3	3	3	3
102.5°	2	2	2	2	2	2	2	3	3	3	3
105°	2	2	2	2	2	2	2	2	2	2	2
107.5°	2	2	2	2	2	2	2	2	2	2	2
110°	2	2	2	1	2	2	2	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°	
112.5°	1	1	1	1	1	2	2	2	3	2	1	0°
115°	1	1	1	1	1	1	2	2	3	2	1	2.5°
117.5°	1	1	1	1	1	1	2	2	2	2	2	5°
120°	1	1	1	1	1	1	2	2	2	2	1	7.5°
122.5°	1	1	1	1	1	1	2	2	2	1	1	10°
125°	1	1	1	1	1	1	2	1	1	1	1	12.5°
127.5°	1	1	1	1	1	1	1	1	1	1	1	15°
130°	1	1	1	1	1	1	1	1	0	1	0	17.5°
132.5°	1	1	1	1	1	1	1	1	0	0	0	20°
135°	1	1	1	1	1	1	1	0	0	0	0	22.5°
137.5°	1	1	0	1	0	0	0	0	0	0	0	25°
140°	1	1	1	0	0	0	0	0	0	0	0	27.5°
142.5°	1	1	0	0	1	0	0	0	0	0	0	30°
145°	1	1	1	1	1	0	0	0	0	1	1	32.5°
147.5°	1	1	1	1	1	1	0	1	0	0	1	35°
150°	1	1	1	1	1	1	1	1	0	1	1	37.5°
152.5°	1	1	0	1	0	0	0	0	0	0	0	40°
155°	1	1	0	1	1	1	0	0	0	1	1	42.5°
157.5°	1	1	1	0	1	0	1	0	1	0	1	45°
160°	1	0	0	0	0	0	0	0	0	0	1	47.5°
162.5°	1	1	0	0	0	0	0	0	0	0	0	50°
165°	0	0	0	0	0	0	0	0	0	0	0	52.5°
167.5°	0	0	0	0	0	0	0	0	0	0	0	55°
170°	0	0	0	0	0	0	0	0	0	0	0	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°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

165°	170°	175°	180°
354	354	354	354
306	305	304	307
275	273	273	275
253	251	251	253
237	235	235	237
227	226	225	228
222	221	221	224
221	221	221	223
224	225	226	229
229	230	232	235
231	232	230	236
226	226	227	229
212	210	210	212
193	190	189	190
175	171	171	172
159	156	156	157
145	143	144	145
133	132	133	134
124	123	124	125
115	114	115	116
106	106	107	108
98	99	100	101
90	91	93	93
83	84	85	86
75	77	78	79
69	70	70	71
61	62	63	64
54	55	56	57
47	47	48	49
39	40	40	41
32	32	32	33
24	24	24	25
18	17	17	17
12	11	11	11
7	7	6	6
5	5	5	5
5	5	5	5
4	4	4	2
4	4	3	1
3	3	2	1
2	2	2	1
2	2	2	1
2	2	1	1
1	1	1	1
1	1	1	1

CANDELA DISTRIBUTION:

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



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TION (continued):

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

(END OF REPORT)