

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: P23141

Luminaire Tested: **XTOR9ARL-CBP**

Test Date: 01/11/13

Test Information

Test Method: LM-79-08
Report Number: P23141
Test Lab: INNOVATION CENTER P2
Test Date: 01/11/13
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR9ARL-CBP
Description: LUMARK CROSSTOUR MAXX LED, EMERGENCY MODE
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 468.3 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.33' x H: 0.17')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U2 - G0

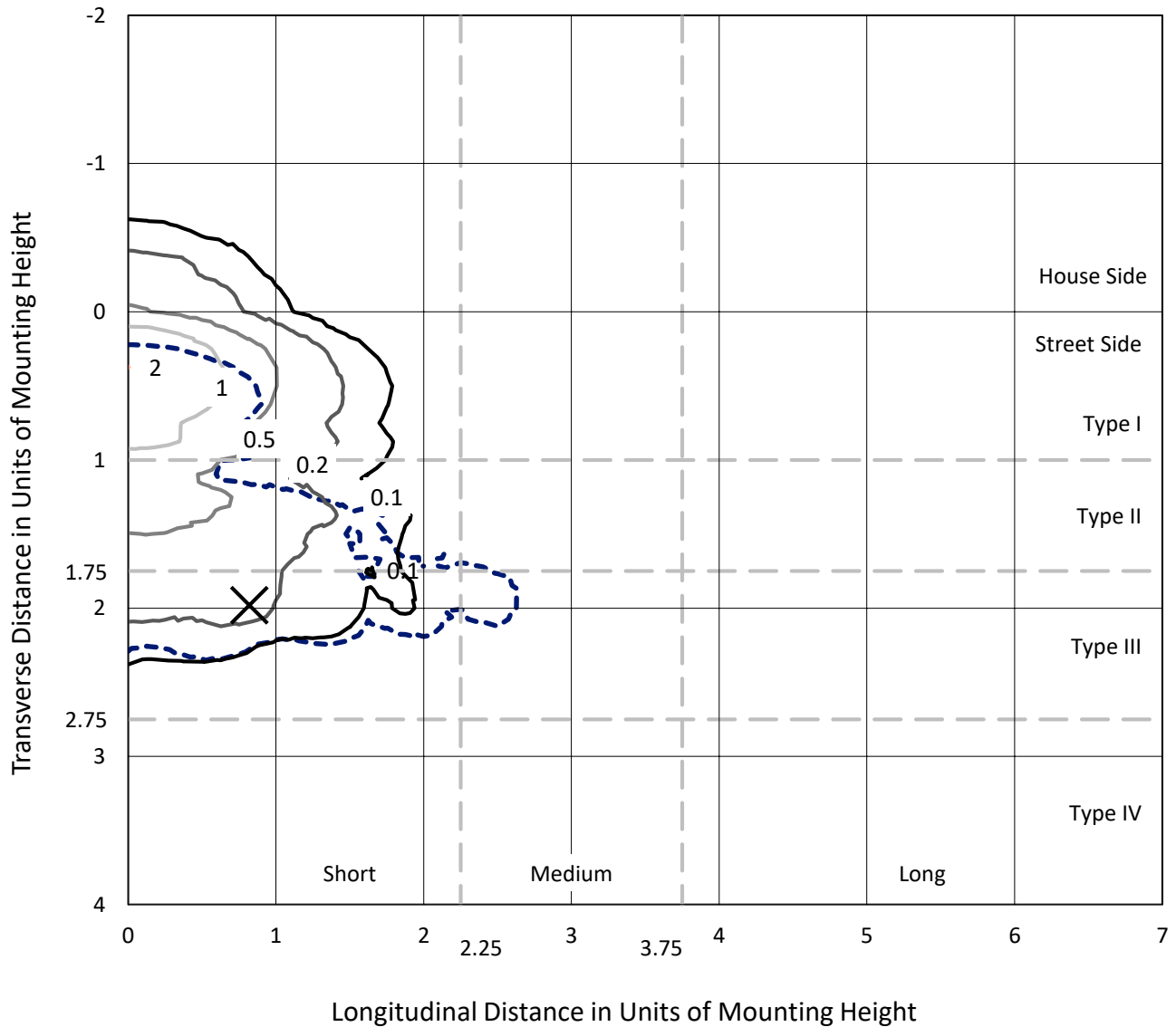
Input Watts (W): 8.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

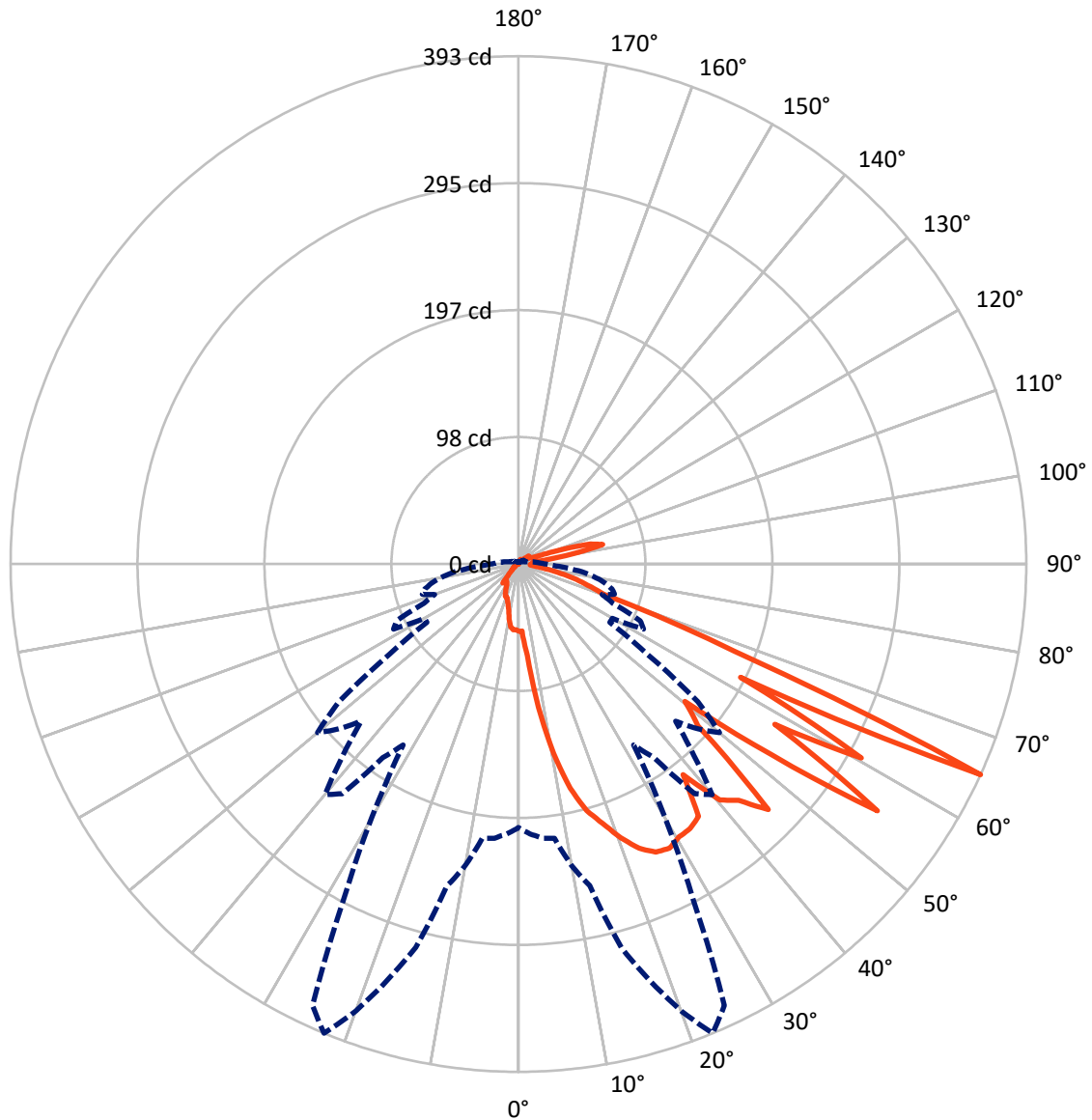
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 22.5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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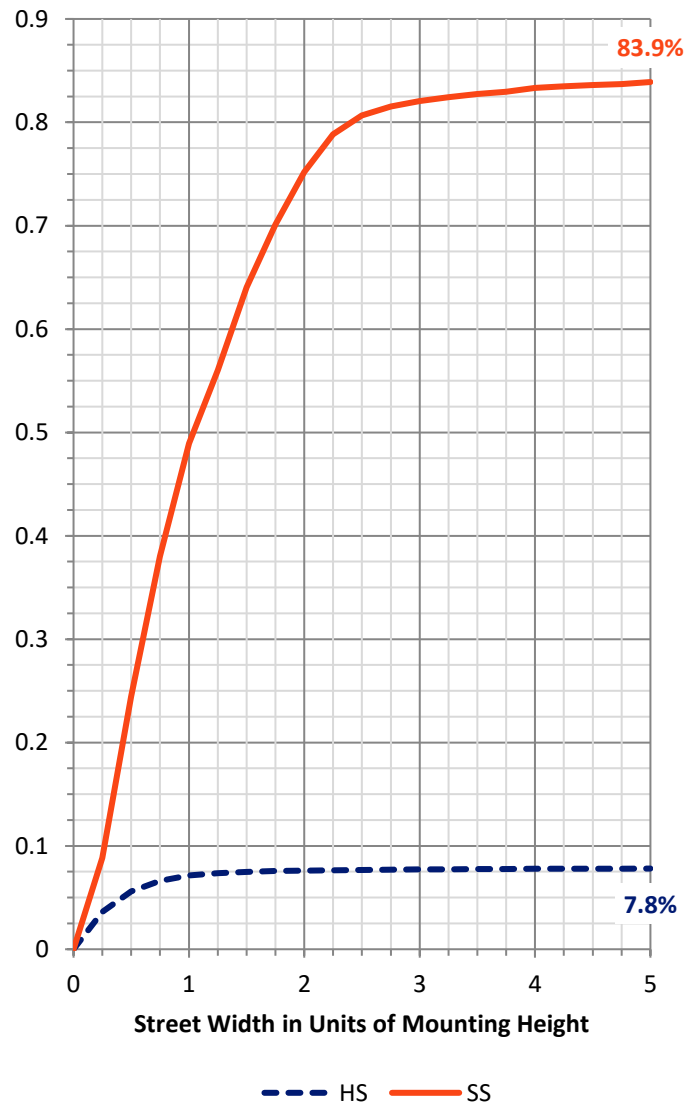
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.1	2.7	39.8
	% Fixture	7.9	0.6	8.5
Street Side	Lumens	396.1	32.3	428.4
	% Fixture	84.6	6.9	91.5
Total	Lumens	433.3	35.0	468.3
	% Fixture	92.5	7.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	1.3
10°-20°	26.3	5.6
20°-30°	50.1	10.7
30°-40°	67.6	14.4
40°-50°	77.6	16.6
50°-60°	87.2	18.6
60°-70°	82.1	17.5
70°-80°	30.2	6.4
80°-90°	6.0	1.3
90°-100°	9.0	1.9
100°-110°	14.1	3.0
110°-120°	5.3	1.1
120°-130°	3.1	0.7
130°-140°	1.7	0.4
140°-150°	1.1	0.2
150°-160°	0.6	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	433.3	92.5
0°-180°	468.3	100.0

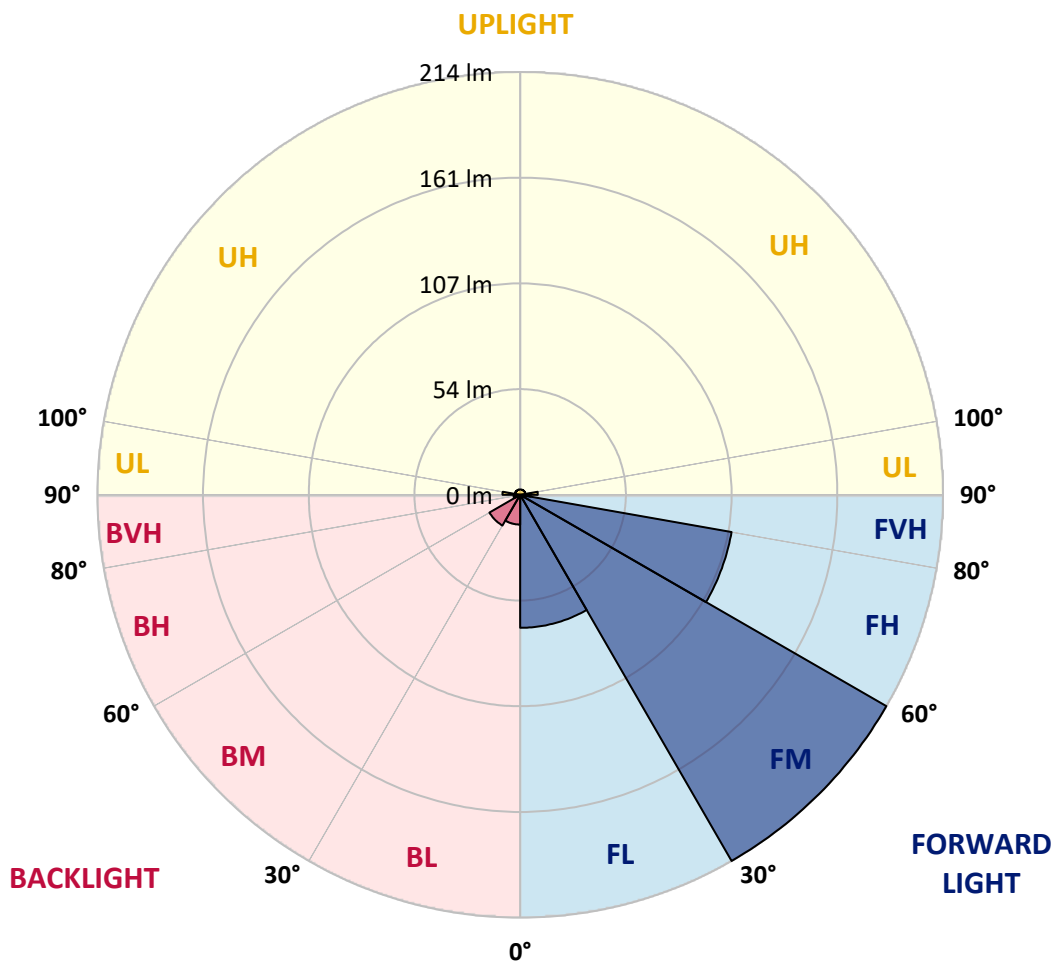


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	67.4	14.4			
FM (30°-60°)	214.5	45.8			
FH (60°-80°)	108.9	23.2			G0/660
FVH (80°-90°)	5.3	1.1			G0/10
BL (0°-30°)	15.1	3.2	B0/110		
BM (30°-60°)	18.0	3.8	B0/220		
BH (60°-80°)	3.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	0.1			G0/10
UL (90°-100°)	9.0	1.9		U1/10	
UH (100°-180°)	2.7	0.6		U1/10	

BUG Rating: B0-U2-G0
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	52	52	52	52	52	52	52	52	52	52	52
2.5°	52	52	52	52	52	52	52	52	52	52	52
5°	79	76	77	76	75	74	75	74	73	71	69
7.5°	121	121	121	120	119	118	118	117	115	112	110
10°	160	159	160	159	157	157	157	154	152	149	146
12.5°	194	192	193	191	189	187	187	184	183	178	176
15°	208	207	206	205	204	203	202	201	200	198	197
17.5°	226	225	225	224	222	220	219	217	215	211	208
20°	242	242	241	240	239	238	236	234	230	226	224
22.5°	251	251	250	251	250	248	247	245	243	239	237
25°	255	254	254	254	254	254	253	252	249	247	245
27.5°	252	252	252	252	253	252	251	251	250	249	248
30°	250	250	251	251	249	247	247	247	245	245	245
32.5°	246	246	246	246	245	245	245	244	244	244	243
35°	217	218	220	221	227	229	231	239	241	240	238
37.5°	251	249	245	243	233	228	222	218	214	207	211
40°	265	264	261	260	257	255	256	261	250	240	228
42.5°	282	282	281	280	277	274	271	266	258	250	242
45°	212	215	220	222	232	241	247	269	278	271	262
47.5°	190	187	183	180	168	157	145	150	168	187	209
50°	266	261	256	252	237	227	213	200	181	167	150
52.5°	376	378	377	370	351	331	302	291	267	245	220
55°	257	261	269	270	279	283	298	306	327	337	326
57.5°	319	320	319	314	306	297	282	263	240	234	241
60°	238	242	250	251	263	266	276	280	303	305	291
62.5°	390	384	366	360	316	288	228	202	190	193	213
65°	204	209	213	214	237	255	307	338	368	393	377
67.5°	168	149	159	159	173	181	189	187	182	180	184
70°	73	73	72	72	70	69	68	68	68	70	77
72.5°	56	54	55	54	54	54	56	56	56	56	56
75°	45	45	46	45	46	46	48	45	46	44	44
77.5°	33	32	33	33	32	32	33	32	32	31	29
80°	23	22	23	22	22	21	21	21	20	19	18
82.5°	15	15	15	15	14	14	14	13	13	12	12
85°	10	10	10	10	10	9	9	9	9	9	9
87.5°	9	9	9	9	9	9	9	9	9	9	9
90°	12	14	12	14	13	14	14	12	11	11	10
92.5°	12	12	12	12	12	12	12	11	11	11	11
95°	12	12	12	11	12	12	12	12	12	11	13
97.5°	11	12	11	12	12	12	12	13	13	15	16
100°	15	15	15	16	17	18	19	23	33	43	49
102.5°	46	45	46	46	46	46	47	51	61	67	70
105°	69	72	73	75	74	71	72	72	67	58	52
107.5°	67	63	62	59	55	50	48	45	42	38	35
110°	40	38	39	37	36	34	32	29	26	23	21



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	25	25	24	23	22	21	19	17	16	14	13
115°	19	16	17	19	20	18	16	14	11	11	10
117.5°	10	10	11	10	10	10	10	10	10	11	13
120°	9	8	9	9	9	8	9	9	9	9	9
122.5°	8	8	8	8	8	8	8	8	8	8	8
125°	7	7	7	7	8	8	8	8	8	9	9
127.5°	9	9	9	9	9	9	9	10	10	10	10
130°	11	11	11	11	10	10	10	9	9	8	8
132.5°	8	8	8	8	7	7	7	6	6	5	5
135°	5	5	5	5	5	5	5	4	4	4	4
137.5°	4	4	4	4	4	4	4	4	3	3	3
140°	3	3	3	3	3	3	3	3	3	3	3
142.5°	3	3	3	3	3	3	3	3	3	3	3
145°	3	3	3	3	3	3	3	3	3	3	3
147.5°	4	4	4	4	4	4	4	4	4	4	4
150°	5	5	4	4	4	5	4	4	4	4	4
152.5°	4	4	4	4	4	4	4	4	4	4	4
155°	4	4	4	4	3	3	3	3	3	3	3
157.5°	2	2	2	2	2	2	2	2	2	2	2
160°	2	2	2	2	2	2	2	2	2	2	2
162.5°	2	2	2	2	2	2	2	1	1	1	1
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	52	52	52	52	52	52	52	52	52	52	52
2.5°	52	52	52	52	52	52	52	52	52	52	52
5°	69	67	66	63	61	58	57	56	54	54	53
7.5°	108	104	101	98	96	91	87	84	78	76	71
10°	143	140	137	132	129	123	118	115	108	104	97
12.5°	174	170	165	162	159	153	147	141	134	128	120
15°	196	193	191	188	184	177	172	166	160	154	145
17.5°	207	204	201	198	196	194	190	186	179	173	163
20°	221	217	214	212	207	201	197	193	189	185	179
22.5°	234	230	226	222	218	214	208	203	196	191	184
25°	242	239	235	232	229	225	219	213	205	199	190
27.5°	247	245	243	238	236	232	227	221	215	207	199
30°	245	244	243	241	240	237	233	227	221	214	206
32.5°	241	238	237	237	237	236	233	230	224	218	211
35°	238	237	237	235	233	232	231	228	225	221	215
37.5°	223	235	235	233	232	232	227	224	222	218	216
40°	213	206	199	210	228	230	225	221	215	212	210
42.5°	242	239	222	204	192	188	208	220	215	209	202
45°	253	246	235	229	225	206	184	177	195	205	201
47.5°	241	261	261	253	234	219	214	192	167	167	183
50°	135	149	180	210	239	238	230	207	193	169	148
52.5°	197	173	147	127	145	173	206	211	194	185	167
55°	293	258	217	185	152	128	125	154	181	181	164
57.5°	271	298	310	287	232	189	147	115	114	137	163
60°	268	231	215	234	273	268	229	168	124	100	106
62.5°	251	264	278	251	205	188	213	231	202	151	107
65°	293	227	166	183	224	233	201	172	189	203	175
67.5°	209	250	301	323	253	186	160	200	191	164	176
70°	112	129	145	148	158	197	276	274	192	186	185
72.5°	59	61	64	66	76	89	125	130	159	226	221
75°	45	44	45	43	43	40	43	45	49	66	82
77.5°	29	27	27	25	26	25	24	23	24	26	27
80°	17	17	16	16	16	15	15	15	15	15	16
82.5°	12	11	11	11	11	11	11	10	10	10	11
85°	9	8	8	8	8	9	9	9	9	9	9
87.5°	9	8	8	8	8	9	9	10	11	10	9
90°	11	11	11	10	11	12	13	14	15	15	11
92.5°	11	12	12	11	13	16	20	26	29	27	16
95°	13	14	17	19	24	39	52	49	41	31	16
97.5°	20	27	41	55	58	61	56	45	30	22	15
100°	54	61	65	63	54	43	35	30	25	17	14
102.5°	70	60	48	40	33	30	26	19	15	13	13
105°	45	39	35	30	24	19	16	15	14	12	12
107.5°	30	25	21	18	16	14	13	11	10	10	10
110°	18	15	14	12	11	10	10	10	10	9	9



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	12	11	10	10	9	9	9	9	9	9	9
115°	10	9	9	9	9	9	9	9	9	9	9
117.5°	12	11	9	9	9	9	9	9	9	9	9
120°	9	9	10	11	10	10	9	10	10	10	9
122.5°	9	9	9	10	10	11	11	10	10	8	7
125°	10	10	10	11	10	10	9	8	7	6	6
127.5°	10	9	9	8	8	7	6	5	5	5	5
130°	7	6	6	5	5	5	4	4	4	4	4
132.5°	5	5	4	4	4	4	4	4	4	3	3
135°	4	4	4	3	3	3	3	3	3	3	3
137.5°	3	3	3	3	3	3	3	3	3	3	3
140°	3	3	3	3	3	3	3	3	3	3	3
142.5°	3	3	3	3	3	3	3	3	3	3	3
145°	3	4	3	4	4	4	4	4	4	3	3
147.5°	4	4	4	4	4	4	4	4	3	3	3
150°	4	4	4	4	4	4	3	3	3	3	2
152.5°	4	4	3	3	3	3	2	2	2	2	2
155°	3	2	2	2	2	2	2	2	2	2	2
157.5°	2	2	2	2	2	2	2	2	2	2	2
160°	2	2	2	2	2	2	1	1	1	1	1
162.5°	1	1	1	1	1	1	1	1	1	1	1
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	52	52	52	52	52	52	52	52	52	52	52
2.5°	52	52	52	52	52	52	52	52	52	52	52
5°	53	53	53	53	53	52	52	52	52	52	52
7.5°	66	62	58	55	54	53	53	53	52	52	52
10°	90	84	78	72	65	59	55	53	53	52	52
12.5°	114	107	98	91	83	74	66	58	54	52	52
15°	137	128	119	110	101	90	80	71	61	54	52
17.5°	156	147	136	127	116	106	94	83	71	60	53
20°	171	162	152	142	130	118	106	94	81	68	57
22.5°	180	174	164	154	142	131	117	104	90	76	62
25°	184	178	172	164	153	141	128	113	99	84	68
27.5°	192	183	175	169	161	150	136	122	107	91	74
30°	198	188	180	171	164	156	143	129	115	98	80
32.5°	203	194	183	174	164	156	149	136	120	102	84
35°	208	200	189	178	167	158	151	141	127	108	89
37.5°	210	201	192	180	170	161	153	144	132	114	93
40°	204	199	191	183	173	164	154	145	134	116	95
42.5°	198	194	189	183	176	166	156	144	135	118	95
45°	192	184	183	180	176	167	156	144	132	116	95
47.5°	186	181	176	174	171	164	156	142	128	111	94
50°	156	170	171	166	164	159	151	139	122	108	93
52.5°	140	138	158	158	156	152	145	132	114	103	91
55°	155	139	129	146	146	142	136	123	110	99	88
57.5°	160	146	126	112	132	131	123	116	107	94	84
60°	139	156	139	116	99	110	107	104	100	90	74
62.5°	94	109	133	125	101	82	91	90	89	79	65
65°	122	84	84	109	104	79	69	78	75	69	61
67.5°	176	132	85	75	85	85	65	59	63	59	53
70°	159	164	141	84	60	66	73	53	46	49	43
72.5°	187	155	123	116	81	51	50	55	36	33	33
75°	114	145	134	118	93	72	40	34	35	23	21
77.5°	30	35	40	64	72	60	43	21	16	14	9
80°	17	19	21	22	23	22	18	14	8	5	4
82.5°	12	13	14	15	14	13	10	7	5	4	4
85°	9	10	11	11	11	9	7	5	4	4	3
87.5°	8	8	9	9	9	8	6	5	4	3	3
90°	9	8	8	8	8	7	6	4	3	3	3
92.5°	11	9	9	9	9	7	6	5	4	3	3
95°	10	10	11	12	11	9	7	6	4	4	4
97.5°	13	13	14	15	14	12	9	7	5	4	4
100°	14	15	17	17	17	14	11	9	6	5	5
102.5°	14	15	17	18	17	15	12	9	7	5	4
105°	12	14	16	16	16	14	11	8	6	5	4
107.5°	11	12	12	13	12	11	9	7	5	4	3
110°	9	10	10	10	9	8	7	6	4	4	3



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°	
112.5°	9	8	8	8	7	7	6	5	4	3	3	0°
115°	8	7	7	7	6	5	5	4	3	3	2	2.5°
117.5°	8	7	6	6	5	5	4	4	3	2	2	5°
120°	8	7	6	5	5	4	4	3	3	2	2	7.5°
122.5°	6	6	5	5	4	4	3	3	2	2	2	10°
125°	5	5	5	4	4	3	3	2	2	2	2	12.5°
127.5°	4	4	4	3	3	2	2	2	2	1	1	15°
130°	4	4	3	3	3	2	2	2	2	2	1	17.5°
132.5°	3	3	3	3	2	2	2	2	1	1	1	20°
135°	3	3	3	2	2	2	2	2	1	1	1	22.5°
137.5°	3	3	3	2	2	2	2	2	1	1	1	25°
140°	3	3	3	3	3	2	2	2	2	1	1	27.5°
142.5°	3	3	3	2	2	2	2	2	1	1	1	30°
145°	3	3	3	2	2	2	2	1	1	1	1	32.5°
147.5°	3	2	2	2	2	2	1	1	1	1	1	35°
150°	2	2	2	2	2	1	1	1	1	1	1	37.5°
152.5°	2	2	1	1	1	1	1	1	1	1	1	40°
155°	2	1	1	1	1	1	1	1	1	1	1	42.5°
157.5°	1	1	1	1	1	1	1	1	1	1	1	45°
160°	1	1	1	1	1	1	1	1	1	1	1	47.5°
162.5°	1	1	1	1	1	1	1	1	1	1	1	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°

NUMBER: P23141
 NUMBER: XTOR9ARL-CBP

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°		82.5°
52	52	52	52	52	52	52	52	52	52	52	112.5°	2
52	52	52	52	52	52	52	52	52	52	52	115°	2
52	52	52	52	52	52	52	52	52	52	52	117.5°	2
52	52	52	52	52	51	51	51	51	51	51	120°	2
52	52	51	51	51	51	51	51	51	51	51	122.5°	1
52	51	51	51	51	51	51	50	50	50	50	125°	1
52	51	51	51	51	50	50	50	50	50	50	127.5°	1
52	51	50	50	50	50	50	50	49	49	49	130°	1
52	50	50	49	49	49	49	48	48	48	47	132.5°	1
53	50	49	48	48	48	47	47	47	46	44	135°	1
55	50	48	47	47	47	46	46	45	44	42	137.5°	1
58	50	47	46	46	45	45	44	43	41	39	140°	1
61	50	46	45	44	44	44	43	41	38	35	142.5°	1
65	51	45	44	43	42	42	40	38	35	32	145°	1
68	51	44	42	42	41	40	38	35	32	29	147.5°	1
71	52	43	41	40	40	38	36	33	29	27	150°	1
72	52	42	40	39	38	36	33	30	27	27	152.5°	1
72	52	41	38	37	36	34	31	28	27	26	155°	1
72	53	40	36	35	34	31	28	27	26	25	157.5°	1
74	54	39	34	33	32	29	27	26	24	22	160°	1
74	54	38	33	31	29	27	26	23	21	20	162.5°	1
75	53	37	31	29	27	25	22	19	18	17	165°	0
72	50	34	28	27	24	21	18	17	15	14	167.5°	0
66	46	33	26	24	21	18	16	14	13	11	170°	0
59	45	32	25	22	19	16	14	12	10	10	172.5°	0
56	44	29	23	20	17	14	12	10	9	8	175°	0
52	39	27	21	17	14	12	10	8	7	6	177.5°	0
44	35	25	18	14	11	9	8	7	6	5	180°	0
37	29	20	15	11	9	7	6	5	4	3		
28	21	15	11	8	6	5	4	3	3	2		
18	14	10	7	5	4	4	3	2	2	2		
8	7	6	4	3	3	2	2	2	2	2		
4	4	3	3	2	2	2	2	2	2	1		
3	3	3	3	2	2	2	2	2	2	2		
3	3	3	2	2	2	2	2	2	2	1		
3	3	3	2	2	2	2	2	2	1	1		
3	3	3	3	2	2	2	2	1	1	1		
4	3	3	3	2	2	2	2	1	1	1		
4	4	3	3	2	2	2	1	1	1	1		
4	4	3	3	2	2	1	1	1	1	1		
4	3	3	2	2	2	1	1	1	1	1		
3	3	2	2	2	1	1	1	1	1	1		
3	2	2	2	2	1	1	1	1	1	1		
3	2	2	2	2	1	1	1	1	1	1		

'23141
 XTOR9ARL-CBP

REPORT NUMBER: P23141
 CATALOG NUMBER: XTOR9ARL

TION (continued):

CANDELA DISTRIBUTION (con

85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°		110°	112.5°
2	2	2	1	1	1	1	1	1	1	0°	52	52
2	2	1	1	1	1	1	1	1	1	2.5°	52	52
2	1	1	1	1	1	1	1	1	1	5°	51	52
1	1	1	1	1	1	1	1	1	1	7.5°	51	51
1	1	1	1	1	1	1	1	1	1	10°	51	51
1	1	1	1	1	1	1	1	1	1	12.5°	50	50
1	1	1	1	1	1	1	1	1	1	15°	50	49
1	1	1	1	1	1	1	1	1	1	17.5°	48	47
1	1	1	1	1	1	1	1	1	1	20°	46	44
1	1	1	1	1	1	1	1	1	1	22.5°	43	41
1	1	1	1	1	1	1	1	1	1	25°	39	37
1	1	1	1	1	1	1	1	1	1	27.5°	36	33
1	1	1	1	1	1	1	1	1	1	30°	32	30
1	1	1	1	1	1	1	1	1	1	32.5°	29	28
1	1	1	1	1	1	1	1	1	1	35°	27	28
1	1	1	1	1	1	1	1	1	1	37.5°	28	27
1	1	1	1	1	1	1	1	1	1	40°	27	28
1	1	1	1	1	1	1	1	1	1	42.5°	27	24
1	1	1	1	1	1	1	1	1	1	45°	23	23
1	1	1	1	1	1	1	1	1	1	47.5°	22	20
1	1	1	1	1	1	1	1	1	1	50°	18	16
0	0	0	0	0	0	0	0	0	0	52.5°	15	14
0	0	0	0	0	0	0	0	0	0	55°	13	13
0	0	0	0	0	0	0	0	0	0	57.5°	11	10
0	0	0	0	0	0	0	0	0	0	60°	9	8
0	0	0	0	0	0	0	0	0	0	62.5°	7	6
0	0	0	0	0	0	0	0	0	0	65°	6	5
0	0	0	0	0	0	0	0	0	0	67.5°	4	4
										70°	3	3
										72.5°	2	2
										75°	2	2
										77.5°	2	1
										80°	1	1
										82.5°	1	1
										85°	1	1
										87.5°	1	1
										90°	1	1
										92.5°	1	1
										95°	1	1
										97.5°	1	1
										100°	1	1
										102.5°	1	1
										105°	1	1
										107.5°	1	1
										110°	1	1

REPORT NUMBER: P23141
 CATALOG NUMBER: XTOR9ARL-CBP

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<u>tinued):</u>									<u>CANDELA DISTRIBUTION (continued):</u>			
115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°	112.5°	110°	112.5°	115°
52	52	52	52	52	52	52	52	52	112.5°	1	1	1
52	51	52	51	51	51	51	52	52	115°	1	1	1
52	52	51	52	51	52	51	51	51	117.5°	1	1	1
51	51	51	51	51	51	51	51	51	120°	1	1	1
51	51	51	51	50	50	49	49	48	122.5°	1	1	1
50	49	49	48	47	46	45	45	44	125°	1	1	1
48	47	46	45	44	42	41	40	39	127.5°	1	1	1
46	44	42	41	39	37	36	35	34	130°	1	1	1
42	40	38	36	34	33	32	31	31	132.5°	1	1	1
38	36	34	32	31	30	29	29	28	135°	1	1	1
34	32	31	30	29	28	27	27	28	137.5°	1	1	1
31	30	28	27	28	30	29	30	29	140°	1	1	1
29	28	28	30	30	30	28	27	25	142.5°	1	1	1
27	29	29	31	29	28	25	23	22	145°	1	1	1
28	30	29	28	27	25	22	20	19	147.5°	1	1	1
30	27	26	25	24	22	19	18	17	150°	1	1	1
26	24	24	22	20	19	17	16	15	152.5°	1	1	1
24	23	20	19	18	17	15	14	14	155°	1	1	1
21	19	18	17	16	15	14	13	12	157.5°	1	1	1
18	16	16	15	14	13	12	12	12	160°	1	1	1
15	15	13	12	12	11	11	11	12	162.5°	1	1	1
14	13	11	11	10	10	10	11	10	165°	0	0	0
11	10	10	9	9	9	10	9	7	167.5°	0	0	0
9	9	8	8	8	8	8	6	5	170°	0	0	0
7	7	7	7	6	8	6	5	4	172.5°	0	0	0
6	5	5	5	6	5	4	4	3	175°	0	0	0
4	4	4	4	5	4	4	3	3	177.5°	0	0	0
3	3	3	4	4	3	3	2	2	180°	0	0	0
2	2	2	3	3	2	2	2	2				
2	2	2	2	2	2	2	2	2				
2	2	2	2	2	2	2	2	2				
2	2	2	2	2	2	2	2	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	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	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				
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	1	1	1	1	1				
1	1	1	1	1	1	1	1	1				



REPORT NUMBER: P23141
 CATALOG NUMBER: XTOR9ARL-CBP

CANDELA DISTRIBUTION (continued):

117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°		137.5°	140°	142.5°	145°
1	1	1	1	1	1	1	1	0°	52	52	52	52
1	1	1	1	1	1	1	1	2.5°	52	51	51	51
1	1	1	1	1	1	1	1	5°	51	52	51	51
1	1	1	1	1	1	1	1	7.5°	51	51	50	50
1	1	1	1	1	1	1	1	10°	48	47	47	46
1	1	1	1	1	1	1	1	12.5°	43	42	41	40
1	1	1	1	1	1	1	1	15°	37	36	36	35
1	1	1	1	1	1	1	1	17.5°	33	32	32	31
1	1	1	1	1	1	1	1	20°	30	29	29	28
1	1	1	1	1	1	1	1	22.5°	27	27	27	28
1	1	1	1	1	1	1	1	25°	28	29	28	27
1	1	1	1	1	1	1	1	27.5°	27	26	25	24
1	1	1	1	1	1	1	1	30°	24	23	22	21
1	1	1	1	1	1	1	1	32.5°	21	20	19	18
1	1	1	1	1	1	1	1	35°	18	18	17	17
1	1	1	1	1	1	1	1	37.5°	16	16	15	15
1	1	1	1	1	1	0	1	40°	15	14	14	14
1	1	1	1	1	1	1	1	42.5°	13	13	14	15
1	1	1	1	1	1	1	1	45°	13	13	15	14
1	1	1	1	1	1	1	1	47.5°	13	14	12	10
1	1	1	1	1	1	1	0	50°	11	10	8	8
0	0	0	0	0	0	0	0	52.5°	8	7	7	6
0	0	0	0	0	0	0	0	55°	6	6	5	5
0	0	0	0	0	0	0	0	57.5°	5	4	4	4
0	0	0	0	0	0	0	0	60°	4	4	3	3
0	0	0	0	0	0	0	0	62.5°	3	3	3	3
0	0	0	0	0	0	0	0	65°	3	2	2	2
0	0	0	0	0	0	0	0	67.5°	2	2	2	2
								70°	2	2	2	2
								72.5°	2	2	2	2
								75°	2	2	2	2
								77.5°	1	1	1	1
								80°	1	1	1	1
								82.5°	1	1	1	1
								85°	1	1	1	1
								87.5°	1	1	1	1
								90°	1	1	1	1
								92.5°	1	1	1	1
								95°	1	1	1	1
								97.5°	1	1	1	1
								100°	1	1	1	1
								102.5°	1	1	1	1
								105°	1	1	1	1
								107.5°	1	1	1	1
								110°	1	1	1	1



REPORT NUMBER: P23141
 CATALOG NUMBER: XTOR9ARL-CBP

CANDELA DISTRIBUTION (continued):

147.5°	150°	152.5°	155°	157.5°	160°	162.5°		137.5°	140°	142.5°	145°	147.5°
52	52	52	52	52	52	52	112.5°	1	1	1	1	1
51	51	51	51	51	51	51	115°	1	1	1	1	1
51	51	51	51	51	51	51	117.5°	1	1	1	1	1
50	50	49	49	49	49	48	120°	1	1	1	1	1
45	45	44	44	43	43	42	122.5°	1	1	1	1	1
39	38	37	37	36	36	36	125°	1	1	1	1	1
34	34	33	33	32	32	31	127.5°	1	1	1	1	1
30	30	30	29	29	29	28	130°	1	1	1	1	1
28	27	27	27	27	27	27	132.5°	1	1	1	1	1
27	27	28	27	27	27	26	135°	1	1	1	1	1
26	25	25	25	24	24	24	137.5°	1	1	1	1	1
23	23	22	21	21	20	20	140°	1	1	1	1	1
20	20	19	19	18	18	18	142.5°	1	1	1	0	1
18	17	17	17	17	16	16	145°	1	1	1	1	1
16	16	16	16	16	16	16	147.5°	1	1	1	1	0
15	15	15	16	17	18	19	150°	1	1	1	1	1
15	16	18	18	19	16	14	152.5°	1	0	0	0	0
17	16	14	12	12	11	10	155°	1	1	1	0	0
12	11	10	10	9	9	8	157.5°	1	1	0	0	0
9	8	8	7	7	7	7	160°	1	1	1	0	0
7	7	6	6	6	6	6	162.5°	0	0	0	0	0
6	5	5	5	5	5	5	165°	0	0	0	0	0
4	4	4	4	4	4	4	167.5°	0	0	0	0	0
4	4	4	3	3	3	3	170°	0	0	0	0	0
3	3	3	3	3	3	3	172.5°	0	0	0	0	0
3	3	3	3	2	2	2	175°	0	0	0	0	0
2	2	2	2	2	2	2	177.5°	0	0	0	0	0
2	2	2	2	2	2	2	180°	0	0	0	0	0
2	2	2	2	2	2	2						
2	2	2	2	2	2	2						
2	2	2	2	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	1	1						
1	1	1	1	1	1	1						
1	1	1	1	1	0	1						
1	1	1	1	1	1	0						
1	1	1	1	1	1	1						
1	1	1	1	1	1	1						
1	1	1	1	1	1	0						
1	1	1	1	1	1	1						
1	1	1	1	1	1	0						
1	1	1	1	1	1	1						



REPORT NUMBER: P23141

CATALOG NUMBER: XTOR9ARL-CBP

CANDELA DISTRIBUTION (continued):

150°	152.5°	155°	157.5°	160°	162.5°		165°	167.5°	170°	172.5°	175°	177.5°
1	1	1	1	1	1	0°	52	52	52	52	52	52
1	1	1	1	1	1	2.5°	51	51	52	52	52	52
1	1	1	1	1	1	5°	51	51	51	51	51	51
1	1	1	1	1	1	7.5°	48	48	48	48	48	47
1	1	1	1	0	1	10°	42	42	42	41	41	41
1	1	1	1	1	1	12.5°	35	35	35	34	35	34
1	1	0	1	0	1	15°	32	31	31	31	31	31
1	1	1	1	1	0	17.5°	28	28	28	28	28	27
1	1	1	1	1	1	20°	28	28	27	27	27	28
1	0	1	1	1	1	22.5°	26	26	25	25	25	25
1	1	1	1	1	1	25°	23	23	22	22	22	22
1	1	1	1	1	1	27.5°	20	20	20	19	19	19
1	1	0	0	0	0	30°	18	18	18	17	17	17
1	0	1	0	1	0	32.5°	16	16	16	16	16	16
1	1	1	0	0	1	35°	16	17	17	18	18	19
1	1	1	1	1	1	37.5°	21	19	20	20	18	18
0	0	0	0	0	0	40°	14	13	12	12	12	12
0	0	0	0	0	0	42.5°	10	10	10	9	9	9
0	0	0	0	1	0	45°	8	8	8	7	7	7
0	0	0	0	0	0	47.5°	7	6	6	6	6	6
0	0	0	0	0	0	50°	5	5	5	5	5	5
0	0	0	0	0	0	52.5°	4	4	4	4	4	4
0	0	0	0	0	0	55°	4	3	4	3	3	3
0	0	0	0	0	0	57.5°	3	3	3	3	3	3
0	0	0	0	0	0	60°	3	3	3	3	3	3
0	0	0	0	0	0	62.5°	2	2	2	2	2	2
0	0	0	0	0	0	65°	2	2	2	2	2	2
0	0	0	0	0	0	67.5°	2	2	2	2	2	2
						70°	2	2	2	2	2	2
						72.5°	2	2	2	2	2	2
						75°	1	2	1	1	1	1
						77.5°	1	1	1	1	1	1
						80°	1	1	1	1	1	1
						82.5°	1	1	1	1	1	1
						85°	1	1	1	1	1	1
						87.5°	1	1	1	1	1	1
						90°	1	0	0	0	0	0
						92.5°	0	0	0	0	0	0
						95°	1	1	0	1	1	0
						97.5°	1	1	0	0	0	1
						100°	1	0	1	0	0	0
						102.5°	1	1	0	0	0	0
						105°	1	1	0	0	0	0
						107.5°	0	0	0	0	0	0
						110°	1	1	1	1	1	1



REPORT NUMBER: P23141
 CATALOG NUMBER: XTOR9ARL-CBP

CANDELA DISTRIBUTION (continued):

180°		165°	167.5°	170°	172.5°	175°	177.5°	180°
52	112.5°	1	1	1	1	0	1	0
52	115°	1	1	1	0	1	0	1
52	117.5°	1	0	1	0	0	0	1
47	120°	1	1	1	1	1	1	1
41	122.5°	1	0	1	0	0	0	0
34	125°	1	1	1	1	1	1	1
31	127.5°	0	0	0	0	0	0	0
27	130°	1	1	0	0	0	0	0
28	132.5°	1	1	1	1	1	1	1
25	135°	0	1	1	1	0	0	1
22	137.5°	1	0	1	1	1	1	1
19	140°	1	1	1	1	1	1	1
18	142.5°	0	1	1	0	0	0	0
16	145°	1	0	1	0	1	1	0
18	147.5°	1	1	1	1	1	1	1
18	150°	1	1	1	1	1	1	1
12	152.5°	0	0	0	0	0	0	0
9	155°	0	0	0	1	0	0	1
7	157.5°	0	0	1	0	0	0	0
6	160°	0	0	0	0	0	0	1
5	162.5°	0	0	0	0	0	0	0
4	165°	0	0	0	0	0	0	0
3	167.5°	0	0	0	0	0	0	0
3	170°	0	0	0	0	0	0	0
3	172.5°	0	0	0	0	0	0	0
2	175°	0	0	0	0	0	0	0
2	177.5°	0	0	0	0	0	0	0
2	180°	0	0	0	0	0	0	0
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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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