

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: P23140

Luminaire Tested: **XTOR9A-CBP**

Test Date: 01/11/13

**Test Information**

Test Method: LM-79-08  
Report Number: P23140  
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: XTOR9A-CBP  
Description: LUMARK CROSSTOUR MAXX LED, EMERGENCY MODE  
Light Source: -  
Ballast/Driver: -

**Summary**

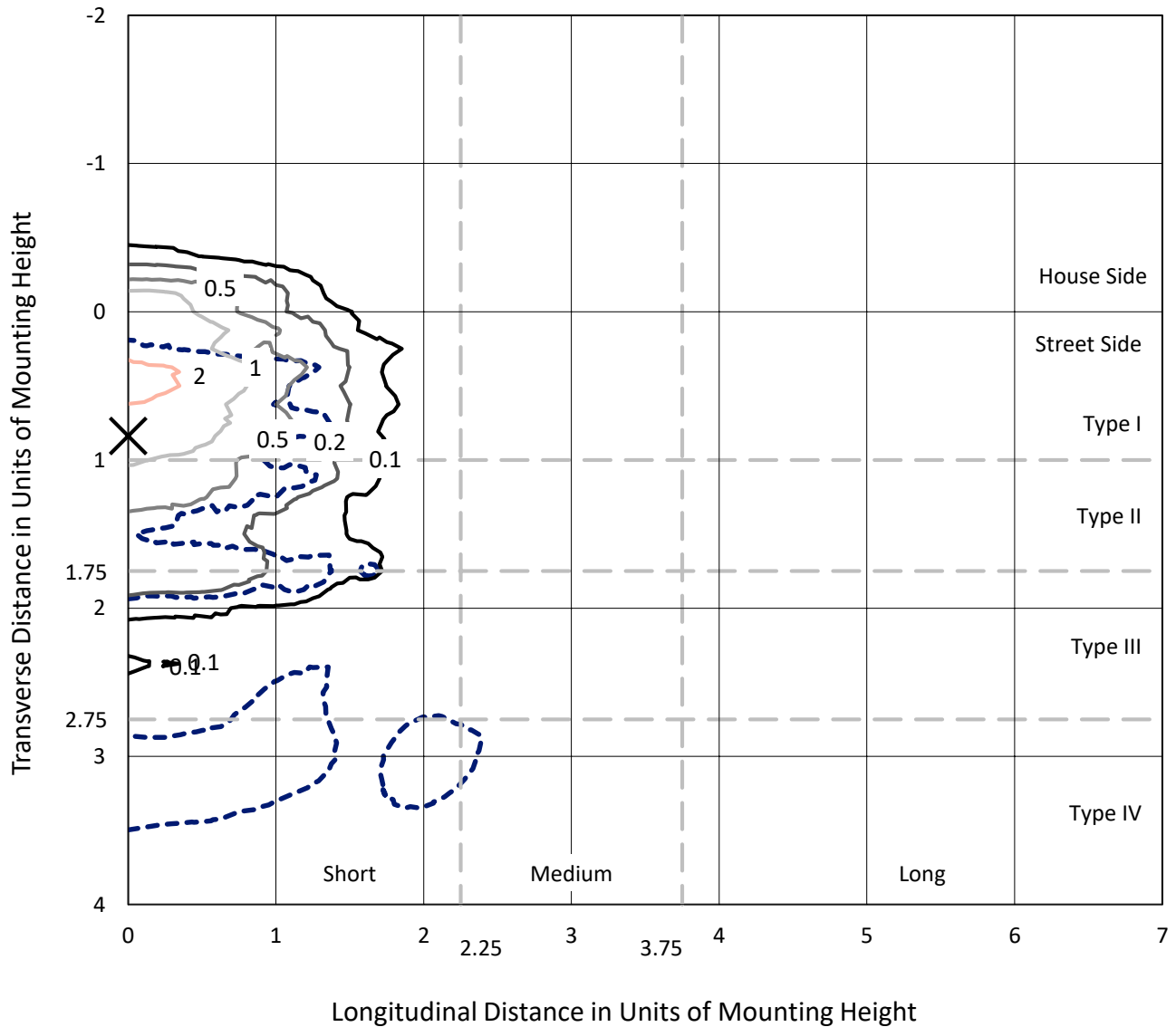
Lumens per Lamp: N/A  
Luminaire Lumens: 509.4 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U1 - G0  
  
Input Watts (W): 8.2  
Input Voltage (V): NR  
Input Current (Ain): 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

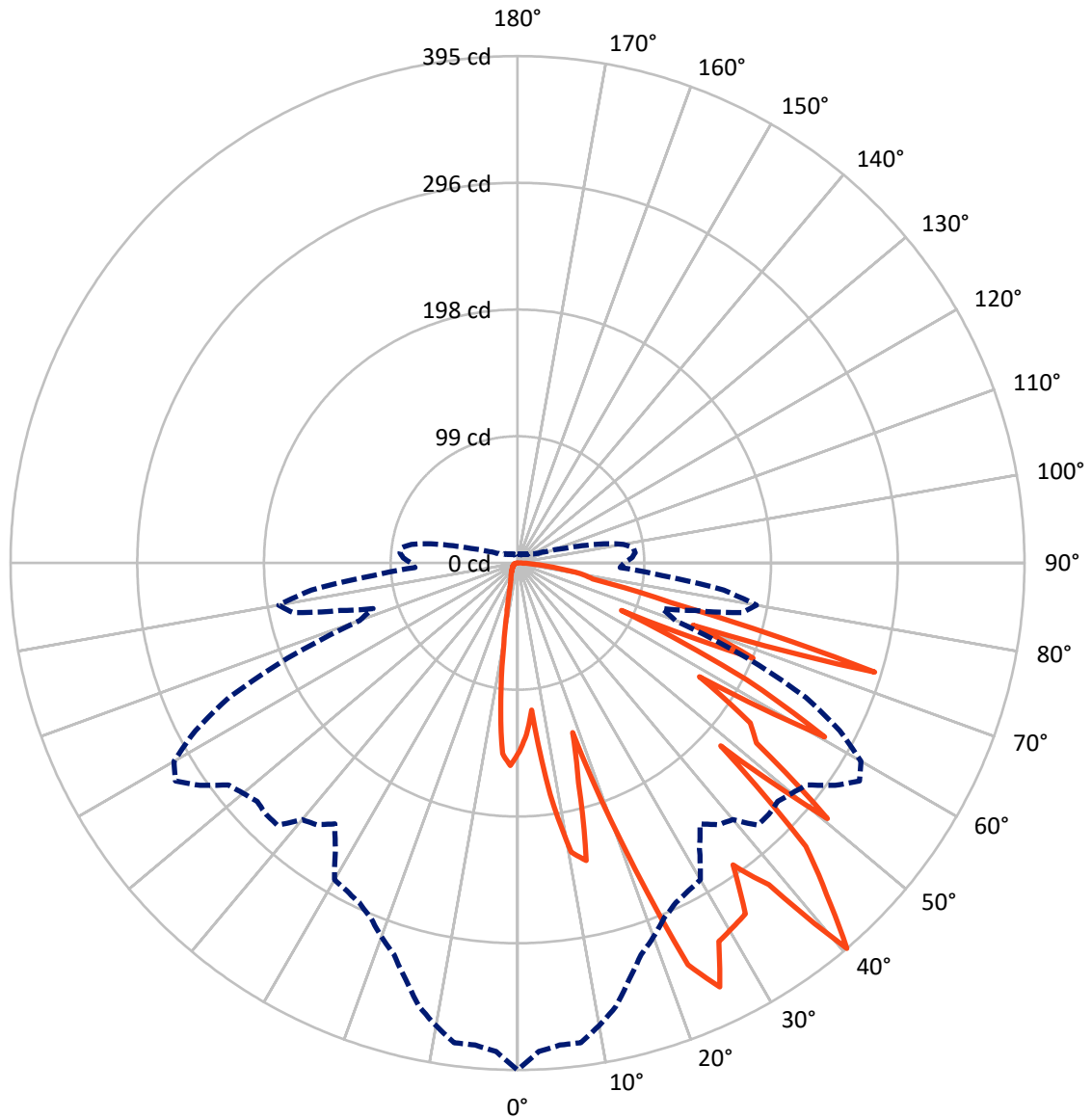
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 40-Deg Vertical

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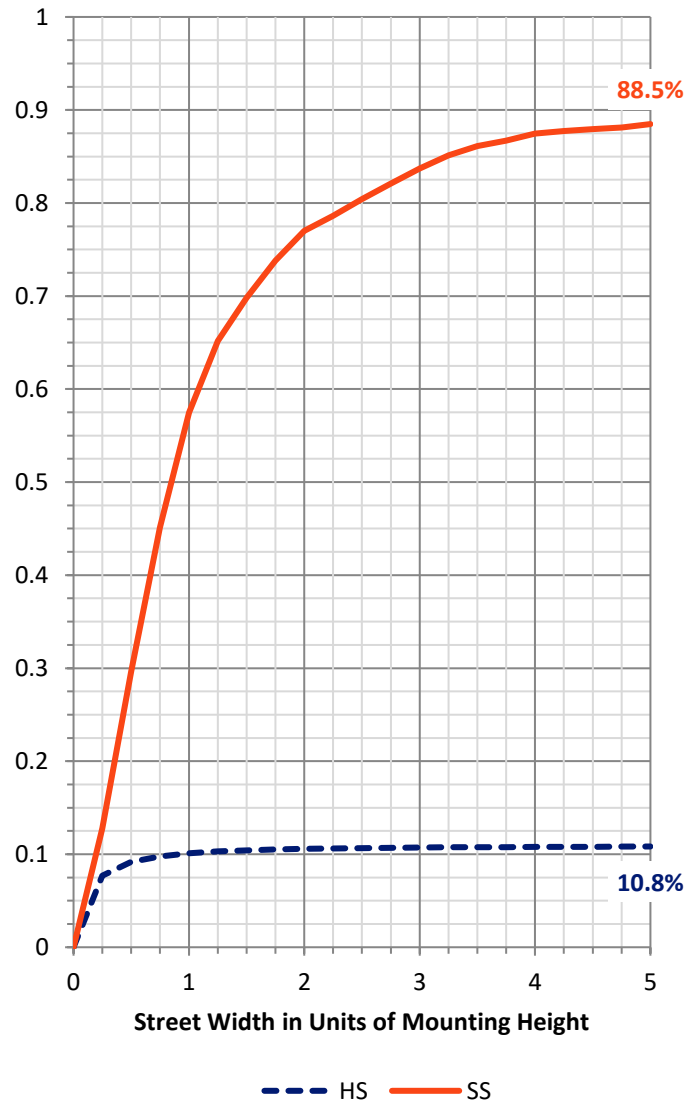
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	55.8	0.0	55.9
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	453.5	0.0	453.5
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	509.3	0.0	509.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.4	2.6
10°-20°	36.3	7.1
20°-30°	64.5	12.7
30°-40°	89.3	17.5
40°-50°	100.8	19.8
50°-60°	85.6	16.8
60°-70°	65.1	12.8
70°-80°	47.6	9.3
80°-90°	6.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	509.3	100.0
0°-180°	509.4	100.0



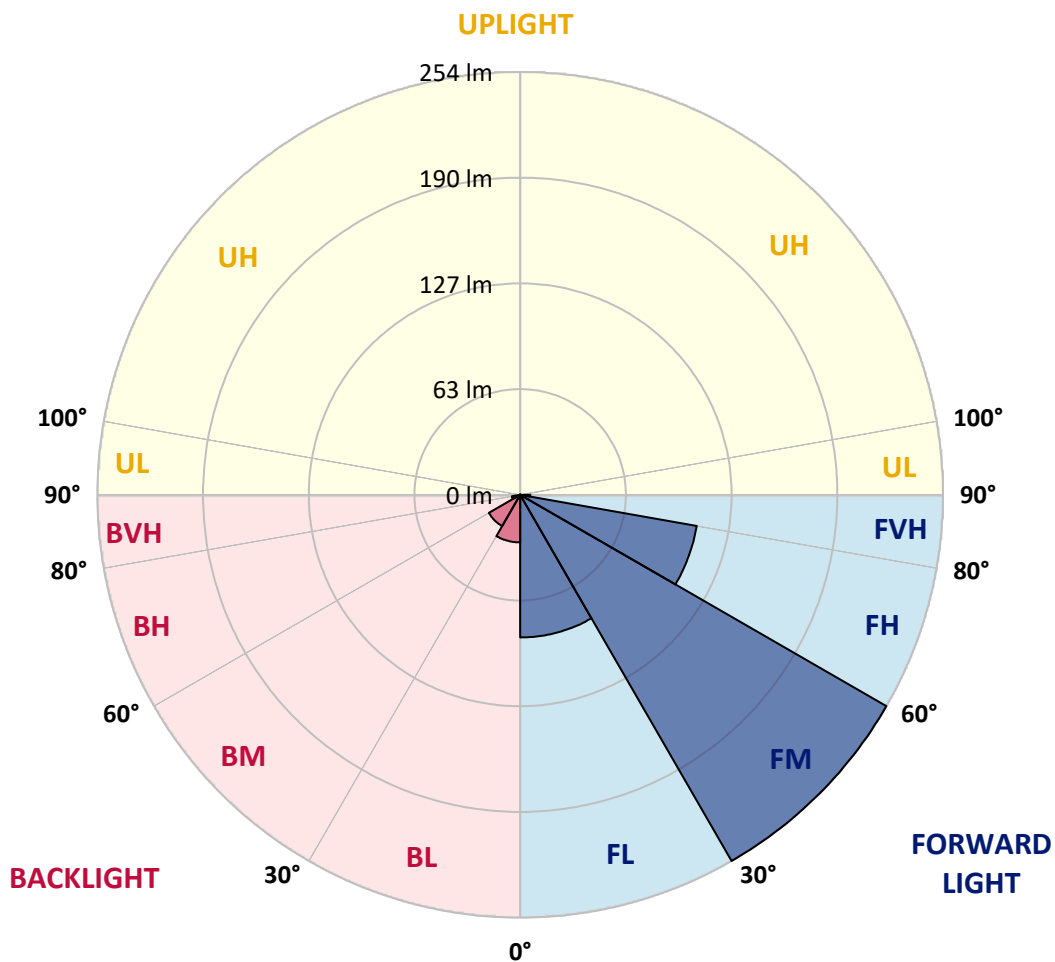
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	85.7	16.8			
FM	(30°-60°)	254.0	49.9			
FH	(60°-80°)	107.7	21.1			G0/660
FVH	(80°-90°)	6.1	1.2			G0/10
BL	(0°-30°)	28.6	5.6	B0/110		
BM	(30°-60°)	21.7	4.3	B0/220		
BH	(60°-80°)	5.0	1.0	B0/110		G0/110
BVH	(80°-90°)	0.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

**BUG Rating: B0-U1-G0**

Type IV 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°	147	147	147	147	147	147	147	147	147	147	147
2.5°	134	129	129	129	128	129	130	130	130	130	131
5°	115	110	111	111	110	111	112	112	113	113	113
7.5°	182	174	173	172	173	169	166	166	161	159	154
10°	229	218	217	216	217	214	214	212	209	208	206
12.5°	238	224	227	229	231	234	236	237	236	236	234
15°	178	172	174	175	177	179	184	186	190	194	198
17.5°	139	133	133	134	135	136	140	142	146	150	155
20°	234	233	228	223	216	208	193	186	166	153	141
22.5°	340	326	326	324	321	317	310	306	295	284	270
25°	366	351	351	352	349	346	341	340	338	337	334
27.5°	334	320	321	321	323	324	326	327	328	333	342
30°	330	318	319	320	318	315	307	303	301	305	311
32.5°	326	311	316	316	320	324	323	324	325	324	323
35°	289	277	278	278	282	286	292	294	293	292	300
37.5°	318	305	305	303	303	303	301	296	287	273	264
40°	395	381	377	377	366	354	336	320	310	299	292
42.5°	353	338	339	339	339	339	340	345	352	369	372
45°	315	304	301	297	295	290	287	295	301	306	307
47.5°	213	207	204	205	207	210	225	242	253	264	267
50°	313	304	297	289	278	273	257	243	233	221	202
52.5°	233	217	224	234	249	253	277	295	299	299	290
55°	220	211	209	203	199	191	178	159	146	158	180
57.5°	167	161	160	162	165	165	167	171	170	167	172
60°	275	262	262	252	239	234	219	207	199	185	160
62.5°	200	194	191	200	213	216	234	256	269	274	264
65°	89	86	85	88	91	92	99	107	113	126	144
67.5°	198	188	187	182	176	169	161	145	133	118	102
70°	145	141	138	142	147	148	169	185	194	204	208
72.5°	291	283	281	283	278	272	273	263	258	245	208
75°	123	117	113	117	125	117	123	117	120	121	134
77.5°	60	58	57	59	58	58	58	57	58	60	61
80°	50	47	46	48	47	47	47	46	46	46	47
82.5°	28	27	27	28	28	28	27	26	26	26	27
85°	14	14	14	14	14	15	14	14	13	13	14
87.5°	5	5	5	5	5	6	5	5	5	5	5
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



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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°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
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):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	147	147	147	147	147	147	147	147	147	147	147
2.5°	131	131	132	133	134	134	139	136	135	137	139
5°	114	114	115	116	117	118	123	122	122	126	128
7.5°	145	141	130	118	115	110	114	112	112	114	117
10°	202	200	196	191	187	180	182	170	160	144	130
12.5°	232	231	229	226	223	217	220	209	200	195	190
15°	203	208	216	231	239	239	245	237	229	226	221
17.5°	161	166	172	182	190	199	214	224	238	245	244
20°	135	135	137	143	150	159	172	180	192	205	221
22.5°	249	233	201	174	151	137	142	146	156	169	183
25°	326	321	310	292	271	237	211	163	140	143	154
27.5°	346	345	337	336	330	317	311	274	234	190	153
30°	318	322	328	338	346	338	341	323	304	280	244
32.5°	315	305	300	306	318	321	339	338	325	317	301
35°	308	310	307	306	301	293	305	314	320	332	325
37.5°	269	274	278	285	295	291	301	291	287	305	322
40°	288	285	264	248	257	261	277	277	275	279	284
42.5°	353	328	298	283	275	252	238	239	245	253	261
45°	310	316	345	363	337	298	278	248	216	213	228
47.5°	255	245	262	280	291	315	353	316	259	229	202
50°	195	201	227	234	224	221	257	265	299	303	248
52.5°	269	246	214	184	173	189	215	200	198	226	270
55°	210	249	274	275	246	210	175	158	181	184	170
57.5°	165	138	126	143	183	225	258	233	183	152	158
60°	141	144	144	144	141	118	115	146	197	220	186
62.5°	239	200	177	149	119	127	135	128	94	94	143
65°	168	207	224	241	221	188	150	122	117	108	88
67.5°	97	102	109	113	129	159	204	203	165	117	89
70°	204	186	165	128	97	90	98	91	107	143	147
72.5°	154	145	157	162	158	140	121	81	62	55	51
75°	181	223	233	232	218	187	139	121	110	91	61
77.5°	62	63	61	58	53	55	80	112	144	149	120
80°	45	46	46	45	43	40	43	41	35	26	23
82.5°	28	27	28	26	25	22	23	20	20	19	17
85°	15	14	13	13	12	10	11	10	9	8	7
87.5°	5	5	5	5	4	4	4	4	3	3	2
90°	0	0	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	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°
112.5°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	147	147	147	147	147	147	147	147	147	147	147
2.5°	139	139	140	140	141	141	142	143	143	143	144
5°	130	131	133	135	137	138	139	139	140	141	143
7.5°	118	120	122	124	126	129	132	135	138	139	140
10°	116	114	114	116	118	121	123	127	131	134	137
12.5°	180	168	143	121	114	115	117	120	124	128	133
15°	213	203	191	177	155	127	115	115	118	122	128
17.5°	237	229	218	206	192	175	144	118	114	117	122
20°	241	243	238	228	215	200	182	152	120	112	115
22.5°	197	213	233	239	231	219	202	182	151	118	110
25°	166	180	197	219	236	232	219	201	178	141	111
27.5°	141	150	166	183	204	228	229	215	195	167	125
30°	192	148	140	156	172	194	218	223	207	183	145
32.5°	273	226	170	136	144	163	185	212	215	195	164
35°	307	282	245	189	139	134	154	182	207	203	176
37.5°	326	310	287	252	195	135	126	148	181	201	186
40°	302	316	309	283	248	194	131	118	143	179	189
42.5°	263	270	290	297	275	238	186	124	113	141	175
45°	230	233	241	260	281	262	224	170	112	108	146
47.5°	200	210	207	209	230	261	248	204	148	97	108
50°	205	181	183	185	180	202	238	224	178	120	82
52.5°	279	222	178	163	169	154	172	203	192	143	87
55°	193	238	245	178	144	146	134	136	168	157	106
57.5°	163	139	158	204	183	125	116	106	103	138	128
60°	140	131	134	100	135	164	111	95	83	80	118
62.5°	172	160	112	103	90	74	116	106	79	63	63
65°	67	75	114	120	83	72	51	67	90	62	46
67.5°	84	65	43	45	81	81	62	44	35	64	50
70°	109	71	58	44	27	29	57	53	30	25	41
72.5°	62	94	95	61	38	27	18	23	33	29	18
75°	42	28	26	39	64	46	22	14	11	19	23
77.5°	97	67	41	23	17	16	27	25	11	6	5
80°	29	42	52	48	33	18	8	7	6	4	3
82.5°	16	12	9	6	5	5	5	4	2	2	2
85°	6	5	4	3	2	2	2	1	1	1	1
87.5°	2	2	1	1	1	1	1	1	1	1	1
90°	0	0	1	0	0	0	0	1	1	1	1
92.5°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0



REPORT NUMBER: P23140  
 CATALOG NUMBER: XTOR9A-CBP

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°	0	0	0	0	0	0	0	0	0	0	0	0°
115°	0	0	0	0	0	0	0	0	0	0	0	2.5°
117.5°	0	0	0	0	0	0	0	0	0	0	0	5°
120°	0	0	0	0	0	0	0	0	0	0	0	7.5°
122.5°	0	0	0	0	0	0	0	0	0	0	0	10°
125°	0	0	0	0	0	0	0	0	0	0	0	12.5°
127.5°	0	0	0	0	0	0	0	0	0	0	0	15°
130°	0	0	0	0	0	0	0	0	0	0	0	17.5°
132.5°	0	0	0	0	0	0	0	0	0	0	0	20°
135°	0	0	0	0	0	0	0	0	0	0	0	22.5°
137.5°	0	0	0	0	0	0	0	0	0	0	0	25°
140°	0	0	0	0	0	0	0	0	0	0	0	27.5°
142.5°	0	0	0	0	0	0	0	0	0	0	0	30°
145°	0	0	0	0	0	0	0	0	0	0	0	32.5°
147.5°	0	0	0	0	0	0	0	0	0	0	0	35°
150°	0	0	0	0	0	0	0	0	0	0	0	37.5°
152.5°	0	0	0	0	0	0	0	0	0	0	0	40°
155°	0	0	0	0	0	0	0	0	0	0	0	42.5°
157.5°	0	0	0	0	0	0	0	0	0	0	0	45°
160°	0	0	0	0	0	0	0	0	0	0	0	47.5°
162.5°	0	0	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°

NUMBER: P23140  
 NUMBER: XTOR9A-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°	112.5°	82.5°
147	147	147	147	147	147	147	147	147	147	147	112.5°	0
145	146	147	147	148	149	149	149	150	150	150	115°	0
144	145	147	148	149	150	151	152	152	153	154	117.5°	0
141	143	145	147	149	150	152	153	155	156	157	120°	0
139	140	143	146	148	150	152	154	155	157	157	122.5°	0
137	139	142	145	148	150	152	154	155	156	155	125°	0
134	137	140	144	147	150	152	154	154	153	150	127.5°	0
128	134	137	141	145	148	151	152	152	149	143	130°	0
121	128	133	137	142	145	147	149	147	141	132	132.5°	0
114	122	128	134	139	141	144	144	140	132	119	135°	0
108	115	122	129	134	137	139	138	132	121	105	137.5°	0
105	108	116	123	129	131	133	131	122	108	91	140°	0
108	101	107	116	122	125	126	123	112	96	77	142.5°	0
118	96	100	108	115	118	118	114	101	84	65	145°	0
134	96	93	100	106	109	110	104	90	72	55	147.5°	0
152	103	86	92	98	101	101	95	80	62	46	150°	0
162	113	80	83	89	92	91	84	69	52	38	152.5°	0
166	126	82	75	80	82	82	74	60	44	32	155°	0
160	133	85	67	71	73	72	65	52	38	27	157.5°	0
138	131	88	60	62	64	63	57	45	32	23	160°	0
105	121	92	57	52	55	55	50	38	27	19	162.5°	0
74	103	94	58	44	47	47	42	32	22	16	165°	0
67	78	90	58	38	39	39	35	27	18	13	167.5°	0
78	54	76	61	33	32	32	29	22	15	11	170°	0
96	58	57	62	33	26	26	23	18	12	9	172.5°	0
95	64	42	52	33	20	21	19	14	10	8	175°	0
53	76	45	36	32	16	16	15	12	8	6	177.5°	0
36	45	52	30	32	15	13	12	10	7	5	180°	0
38	25	36	29	23	16	10	10	8	6	4		
25	27	17	25	19	14	8	7	7	4	4		
12	15	13	12	16	10	6	5	5	4	3		
4	4	5	5	6	7	4	4	4	3	2		
2	2	2	2	3	4	3	3	2	2	2		
2	1	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		
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	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	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	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		

'23140  
 XTOR9A-CBP

REPORT NUMBER: P23140  
 CATALOG NUMBER: XTOR9A-C

**TION (continued):**

**CANDELA DISTRIBUTION (con**

85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°		110°	112.5°
0	0	0	0	0	0	0	0	0	0	0°	147	147
0	0	0	0	0	0	0	0	0	0	2.5°	151	151
0	0	0	0	0	0	0	0	0	0	5°	155	156
0	0	0	0	0	0	0	0	0	0	7.5°	158	158
0	0	0	0	0	0	0	0	0	0	10°	156	155
0	0	0	0	0	0	0	0	0	0	12.5°	152	149
0	0	0	0	0	0	0	0	0	0	15°	145	139
0	0	0	0	0	0	0	0	0	0	17.5°	134	124
0	0	0	0	0	0	0	0	0	0	20°	119	106
0	0	0	0	0	0	0	0	0	0	22.5°	103	88
0	0	0	0	0	0	0	0	0	0	25°	87	72
0	0	0	0	0	0	0	0	0	0	27.5°	73	58
0	0	0	0	0	0	0	0	0	0	30°	60	47
0	0	0	0	0	0	0	0	0	0	32.5°	50	39
0	0	0	0	0	0	0	0	0	0	35°	41	32
0	0	0	0	0	0	0	0	0	0	37.5°	35	27
0	0	0	0	0	0	0	0	0	0	40°	29	23
0	0	0	0	0	0	0	0	0	0	42.5°	24	19
0	0	0	0	0	0	0	0	0	0	45°	20	16
0	0	0	0	0	0	0	0	0	0	47.5°	17	14
0	0	0	0	0	0	0	0	0	0	50°	15	12
0	0	0	0	0	0	0	0	0	0	52.5°	12	10
0	0	0	0	0	0	0	0	0	0	55°	11	9
0	0	0	0	0	0	0	0	0	0	57.5°	9	8
0	0	0	0	0	0	0	0	0	0	60°	8	7
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°	5	4
										70°	4	4
										72.5°	4	3
										75°	3	3
										77.5°	2	2
										80°	2	2
										82.5°	1	1
										85°	1	1
										87.5°	1	1
										90°	1	1
										92.5°	0	0
										95°	0	0
										97.5°	0	0
										100°	0	0
										102.5°	0	0
										105°	0	0
										107.5°	0	0
										110°	0	0



REPORT NUMBER: P23140  
 CATALOG NUMBER: XTOR9A-CBP

CBP

<u>Continued):</u>									<u>CANDELA DISTRIBUTION (continued):</u>			
115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°		110°	112.5°	115°
147	147	147	147	147	147	147	147	147	112.5°	0	0	0
152	152	153	153	153	154	154	155	155	115°	0	0	0
157	157	158	158	158	158	158	158	158	117.5°	0	0	0
158	158	157	156	155	153	151	149	147	120°	0	0	0
154	151	148	144	140	134	129	124	118	122.5°	0	0	0
144	138	132	125	116	107	99	91	84	125°	0	0	0
130	120	110	99	88	79	71	64	59	127.5°	0	0	0
111	98	86	74	65	58	52	47	42	130°	0	0	0
91	77	66	57	49	43	38	34	31	132.5°	0	0	0
73	61	51	44	38	33	29	26	24	135°	0	0	0
58	48	40	34	30	26	23	21	19	137.5°	0	0	0
46	38	32	27	24	21	19	18	16	140°	0	0	0
37	31	26	22	20	18	16	15	15	142.5°	0	0	0
31	26	22	19	17	15	15	14	13	145°	0	0	0
26	21	18	16	15	14	13	13	12	147.5°	0	0	0
22	18	16	15	14	13	12	12	11	150°	0	0	0
18	16	14	13	12	12	11	10	10	152.5°	0	0	0
16	14	13	12	11	11	10	10	9	155°	0	0	0
14	12	12	11	10	10	9	9	8	157.5°	0	0	0
12	11	10	10	9	9	8	8	7	160°	0	0	0
11	10	9	9	8	8	7	7	7	162.5°	0	0	0
9	9	8	8	7	7	6	6	6	165°	0	0	0
8	8	7	7	6	6	6	6	5	167.5°	0	0	0
7	7	6	6	6	5	5	5	5	170°	0	0	0
6	6	5	5	5	5	5	5	4	172.5°	0	0	0
5	5	5	4	4	4	4	4	4	175°	0	0	0
5	4	4	4	4	4	4	4	4	177.5°	0	0	0
4	4	4	4	3	3	3	3	3	180°	0	0	0
3	3	3	3	3	3	3	3	3				
3	3	3	3	3	2	3	3	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	0	1	1	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				
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	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				



REPORT NUMBER: P23140  
 CATALOG NUMBER: XTOR9A-CBP

**CANDELA DISTRIBUTION (continued):**

117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°		137.5°	140°	142.5°	145°
0	0	0	0	0	0	0	0	0°	147	147	147	147
0	0	0	0	0	0	0	0	2.5°	156	156	156	156
0	0	0	0	0	0	0	0	5°	157	157	156	156
0	0	0	0	0	0	0	0	7.5°	143	140	137	134
0	0	0	0	0	0	0	0	10°	111	106	100	96
0	0	0	0	0	0	0	0	12.5°	77	72	66	62
0	0	0	0	0	0	0	0	15°	53	49	45	43
0	0	0	0	0	0	0	0	17.5°	38	35	32	30
0	0	0	0	0	0	0	0	20°	28	26	24	23
0	0	0	0	0	0	0	0	22.5°	22	20	19	18
0	0	0	0	0	0	0	0	25°	18	17	16	16
0	0	0	0	0	0	0	0	27.5°	16	15	14	14
0	0	0	0	0	0	0	0	30°	14	13	13	12
0	0	0	0	0	0	0	0	32.5°	13	12	12	11
0	0	0	0	0	0	0	0	35°	12	11	10	10
0	0	0	0	0	0	0	0	37.5°	10	10	10	9
0	0	0	0	0	0	0	0	40°	9	9	9	8
0	0	0	0	0	0	0	0	42.5°	9	8	8	8
0	0	0	0	0	0	0	0	45°	8	7	7	7
0	0	0	0	0	0	0	0	47.5°	7	7	7	6
0	0	0	0	0	0	0	0	50°	6	6	6	6
0	0	0	0	0	0	0	0	52.5°	6	6	6	5
0	0	0	0	0	0	0	0	55°	5	5	5	5
0	0	0	0	0	0	0	0	57.5°	5	5	5	5
0	0	0	0	0	0	0	0	60°	4	4	4	4
0	0	0	0	0	0	0	0	62.5°	4	4	4	4
0	0	0	0	0	0	0	0	65°	4	4	3	3
0	0	0	0	0	0	0	0	67.5°	3	3	3	3
								70°	3	3	3	3
								72.5°	2	3	3	3
								75°	2	2	2	2
								77.5°	2	2	2	2
								80°	1	2	2	2
								82.5°	1	1	1	1
								85°	1	1	1	1
								87.5°	1	1	1	1
								90°	0	0	0	0
								92.5°	0	0	0	0
								95°	0	0	0	0
								97.5°	0	0	0	0
								100°	0	0	0	0
								102.5°	0	0	0	0
								105°	0	0	0	0
								107.5°	0	0	0	0
								110°	0	0	0	0





REPORT NUMBER: P23140  
 CATALOG NUMBER: XTOR9A-CBP

**CANDELA DISTRIBUTION (continued):**

147.5°	150°	152.5°	155°	157.5°	160°	162.5°		137.5°	140°	142.5°	145°	147.5°
147	147	147	147	147	147	147	112.5°	0	0	0	0	0
156	157	157	157	158	157	158	115°	0	0	0	0	0
155	154	154	153	152	153	151	117.5°	0	0	0	0	0
132	128	126	122	119	120	116	120°	0	0	0	0	0
92	86	83	79	75	75	71	122.5°	0	0	0	0	0
59	55	53	50	49	47	45	125°	0	0	0	0	0
40	38	36	34	32	32	30	127.5°	0	0	0	0	0
29	27	26	24	24	23	22	130°	0	0	0	0	0
21	20	19	18	18	18	17	132.5°	0	0	0	0	0
17	16	16	16	15	15	14	135°	0	0	0	0	0
15	14	14	13	13	13	13	137.5°	0	0	0	0	0
13	13	13	12	12	12	12	140°	0	0	0	0	0
12	12	11	11	11	11	10	142.5°	0	0	0	0	0
11	10	10	10	10	10	9	145°	0	0	0	0	0
10	10	9	9	9	9	8	147.5°	0	0	0	0	0
9	9	8	8	8	8	8	150°	0	0	0	0	0
8	8	8	7	7	7	7	152.5°	0	0	0	0	0
7	7	7	7	7	7	6	155°	0	0	0	0	0
7	7	7	7	6	6	6	157.5°	0	0	0	0	0
6	6	6	6	6	6	6	160°	0	0	0	0	0
6	6	6	6	5	5	5	162.5°	0	0	0	0	0
5	5	5	5	5	5	5	165°	0	0	0	0	0
5	5	5	5	5	5	4	167.5°	0	0	0	0	0
4	4	4	4	4	4	4	170°	0	0	0	0	0
4	4	4	4	4	4	4	172.5°	0	0	0	0	0
4	4	4	4	4	4	3	175°	0	0	0	0	0
3	3	3	3	3	3	3	177.5°	0	0	0	0	0
3	3	3	3	3	3	3	180°	0	0	0	0	0
3	3	3	3	3	3	3						
3	3	3	3	3	3	3						
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	0	0	1	0	0	1						
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						
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						
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						
0	0	0	0	0	0	0						



REPORT NUMBER: P23140  
 CATALOG NUMBER: XTOR9A-CBP

**CANDELA DISTRIBUTION (continued):**

150°	152.5°	155°	157.5°	160°	162.5°		165°	167.5°	170°	172.5°	175°	177.5°
0	0	0	0	0	0	0°	147	147	147	147	147	147
0	0	0	0	0	0	2.5°	157	158	158	158	157	158
0	0	0	0	0	0	5°	151	150	150	150	149	150
0	0	0	0	0	0	7.5°	115	113	111	110	112	109
0	0	0	0	0	0	10°	70	69	67	66	67	65
0	0	0	0	0	0	12.5°	44	43	42	42	42	41
0	0	0	0	0	0	15°	30	29	28	28	28	28
0	0	0	0	0	0	17.5°	21	21	20	20	20	20
0	0	0	0	0	0	20°	17	16	16	16	16	16
0	0	0	0	0	0	22.5°	14	14	14	14	14	14
0	0	0	0	0	0	25°	13	12	12	12	12	12
0	0	0	0	0	0	27.5°	11	11	11	11	11	11
0	0	0	0	0	0	30°	10	10	10	10	10	10
0	0	0	0	0	0	32.5°	9	9	9	9	9	9
0	0	0	0	0	0	35°	8	8	8	8	8	8
0	0	0	0	0	0	37.5°	8	7	7	7	7	7
0	0	0	0	0	0	40°	7	7	7	7	7	7
0	0	0	0	0	0	42.5°	6	6	6	6	6	6
0	0	0	0	0	0	45°	6	6	6	6	6	6
0	0	0	0	0	0	47.5°	6	6	5	5	5	5
0	0	0	0	0	0	50°	5	5	5	5	5	5
0	0	0	0	0	0	52.5°	5	5	5	5	5	5
0	0	0	0	0	0	55°	5	5	4	4	4	4
0	0	0	0	0	0	57.5°	4	4	4	4	4	4
0	0	0	0	0	0	60°	4	4	4	4	4	4
0	0	0	0	0	0	62.5°	3	3	3	3	3	3
0	0	0	0	0	0	65°	3	3	3	3	3	3
0	0	0	0	0	0	67.5°	3	3	3	3	3	3
						70°	3	3	3	3	3	3
						72.5°	3	3	3	3	3	3
						75°	2	2	2	2	2	2
						77.5°	2	2	2	2	2	2
						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°	0	0	0	0	0	0
						92.5°	0	0	0	0	0	0
						95°	0	0	0	0	0	0
						97.5°	0	0	0	0	0	0
						100°	0	0	0	0	0	0
						102.5°	0	0	0	0	0	0
						105°	0	0	0	0	0	0
						107.5°	0	0	0	0	0	0
						110°	0	0	0	0	0	0



REPORT NUMBER: P23140  
CATALOG NUMBER: XTOR9A-CBP

**CANDELA DISTRIBUTION (continued):**

180°		165°	167.5°	170°	172.5°	175°	177.5°	180°
147	112.5°	0	0	0	0	0	0	0
158	115°	0	0	0	0	0	0	0
149	117.5°	0	0	0	0	0	0	0
107	120°	0	0	0	0	0	0	0
64	122.5°	0	0	0	0	0	0	0
40	125°	0	0	0	0	0	0	0
27	127.5°	0	0	0	0	0	0	0
20	130°	0	0	0	0	0	0	0
16	132.5°	0	0	0	0	0	0	0
14	135°	0	0	0	0	0	0	0
12	137.5°	0	0	0	0	0	0	0
11	140°	0	0	0	0	0	0	0
10	142.5°	0	0	0	0	0	0	0
9	145°	0	0	0	0	0	0	0
8	147.5°	0	0	0	0	0	0	0
7	150°	0	0	0	0	0	0	0
7	152.5°	0	0	0	0	0	0	0
6	155°	0	0	0	0	0	0	0
6	157.5°	0	0	0	0	0	0	0
5	160°	0	0	0	0	0	0	0
5	162.5°	0	0	0	0	0	0	0
5	165°	0	0	0	0	0	0	0
4	167.5°	0	0	0	0	0	0	0
4	170°	0	0	0	0	0	0	0
4	172.5°	0	0	0	0	0	0	0
3	175°	0	0	0	0	0	0	0
3	177.5°	0	0	0	0	0	0	0
3	180°	0	0	0	0	0	0	0
3								
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Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report



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