

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: P24981

Luminaire Tested: **XTOR1A-XTORFLD**

Test Date: 09/30/14

Test Information

Test Method: LM-79-08
Report Number: P24981
Test Lab: INNOVATION CENTER-P2
Test Date: 09/30/14
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: XTOR1A-XTORFLD
Description: LUMARK CROSSTOUR 1A - 5000K CCT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 721.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.12' x L: 0.42' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

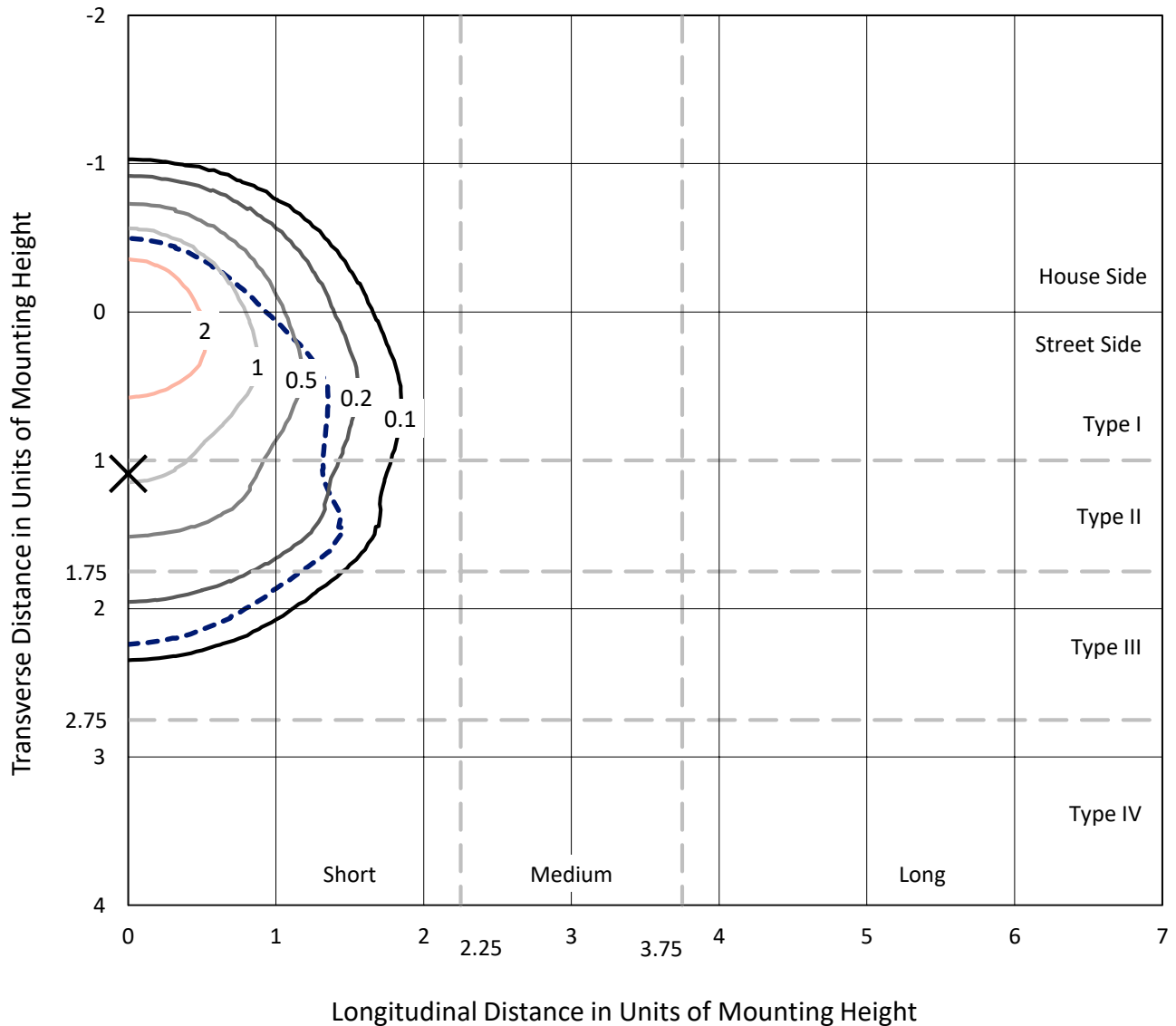
Input Watts (W): 7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

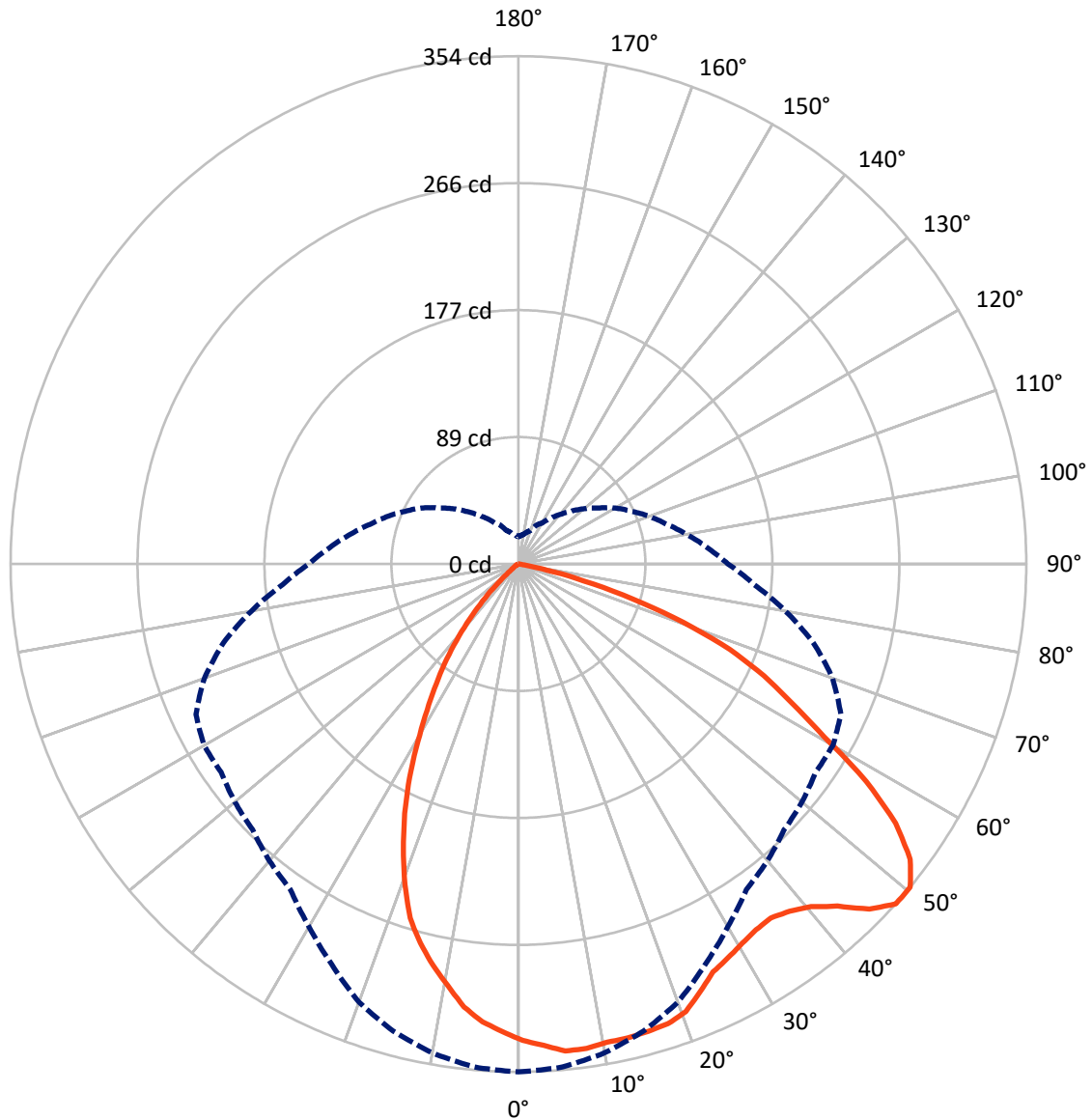
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 47.5-Deg Vertical

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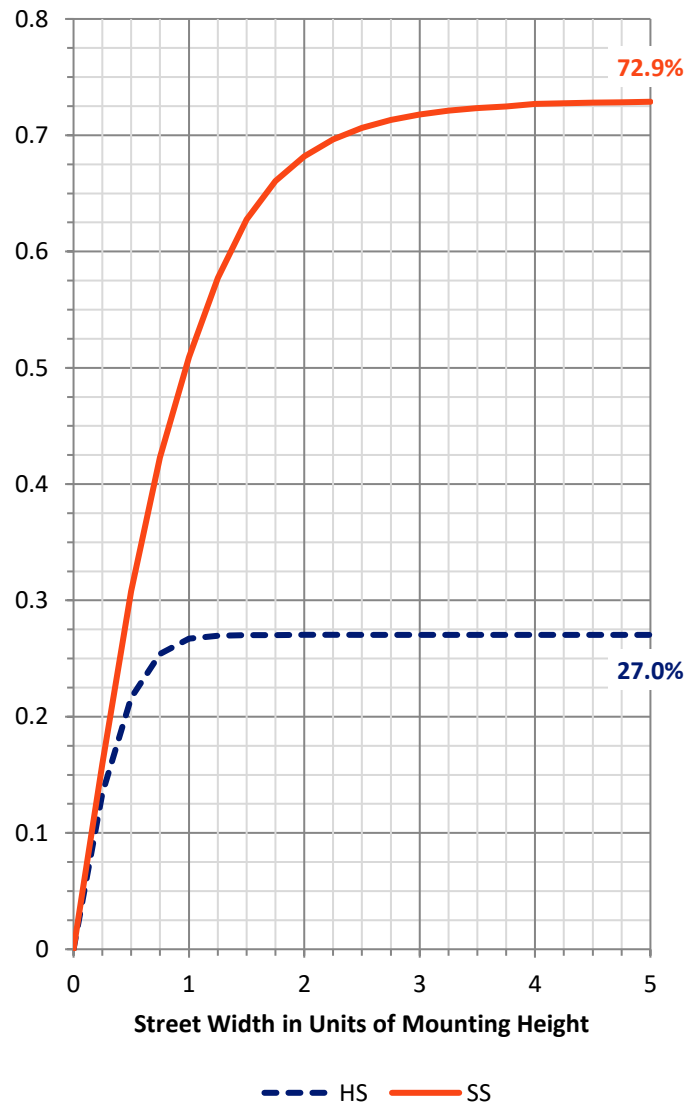
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	196.9	0.0	196.9
	% Fixture	27.3	0.0	27.3
Street Side	Lumens	524.8	0.0	524.8
	% Fixture	72.7	0.0	72.7
Total	Lumens	721.7	0.0	721.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	4.3
10°-20°	87.3	12.1
20°-30°	123.4	17.1
30°-40°	136.8	19.0
40°-50°	135.4	18.8
50°-60°	115.3	16.0
60°-70°	70.3	9.7
70°-80°	21.6	3.0
80°-90°	0.5	0.1
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°	721.7	100.0
0°-180°	721.7	100.0



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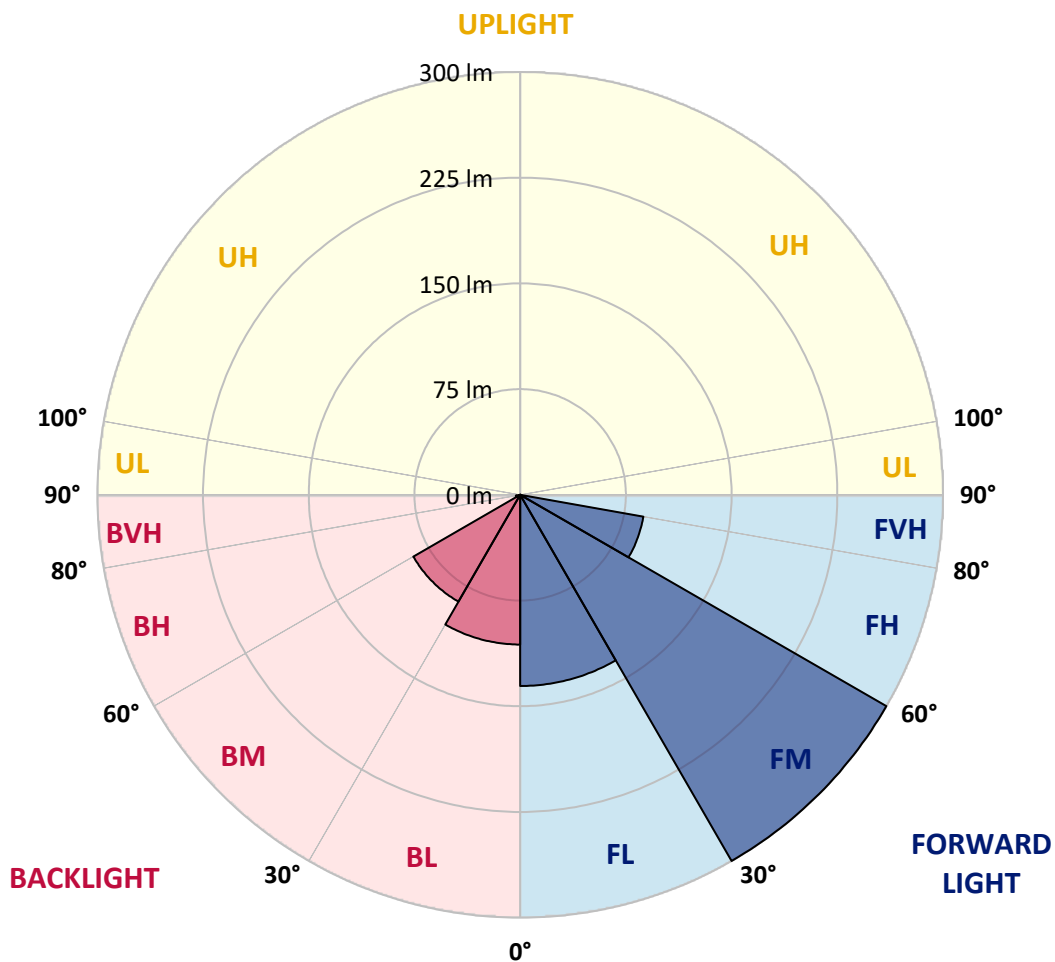
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	135.6	18.8			
FM	(30°-60°)	299.9	41.6			
FH	(60°-80°)	88.8	12.3			G0/660
FVH	(80°-90°)	0.5	0.1			G0/10
BL	(0°-30°)	106.2	14.7	B0/110		
BM	(30°-60°)	87.6	12.1	B0/220		
BH	(60°-80°)	3.1	0.4	B0/110		G0/110
BVH	(80°-90°)	0.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	332	332	332	332	332	332	332	332	332	332	332
2.5°	336	336	335	335	336	334	335	333	335	333	334
5°	341	341	340	339	340	339	339	338	339	337	338
7.5°	341	341	340	340	341	340	340	339	341	338	339
10°	339	339	338	338	339	338	338	337	338	336	337
12.5°	339	339	339	338	339	338	338	336	338	335	336
15°	338	338	338	338	340	338	339	338	339	336	336
17.5°	337	336	336	336	338	338	339	337	339	337	336
20°	333	332	331	331	332	332	334	333	335	333	332
22.5°	324	323	323	324	325	325	327	328	330	329	330
25°	315	314	314	316	319	319	320	321	326	325	326
27.5°	311	310	309	310	313	315	317	317	321	321	323
30°	307	306	306	306	307	308	311	312	315	317	320
32.5°	304	304	303	304	305	304	304	306	309	311	315
35°	303	303	302	302	303	301	301	300	303	303	309
37.5°	307	306	305	303	302	300	299	297	298	296	300
40°	314	313	310	306	303	298	296	293	293	289	289
42.5°	326	326	322	316	309	300	294	288	287	282	280
45°	343	340	334	326	316	302	291	282	279	272	269
47.5°	354	352	346	337	325	308	292	277	270	262	258
50°	354	352	348	341	331	313	294	272	260	250	244
52.5°	342	340	338	335	329	317	297	271	251	235	229
55°	319	318	316	315	314	308	296	272	244	221	212
57.5°	286	284	284	286	285	285	281	267	241	207	194
60°	245	244	243	244	247	248	249	244	233	199	174
62.5°	214	213	212	211	210	209	210	209	209	192	157
65°	188	187	185	182	179	175	171	170	172	168	149
67.5°	159	157	157	154	153	147	142	135	134	132	132
70°	122	121	120	120	120	117	115	110	105	100	100
72.5°	83	83	83	83	84	84	84	81	80	76	71
75°	47	47	49	49	50	51	52	51	53	50	49
77.5°	20	21	21	21	23	24	25	25	28	28	27
80°	5	6	6	6	6	6	7	7	9	9	9
82.5°	1	1	1	1	1	1	1	1	0	1	1
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: XTOR1A-XTORFLD

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	332	332	332	332	332	332	332	332	332	332	332
2.5°	333	332	331	331	330	330	330	329	328	329	328
5°	336	335	333	333	332	332	330	329	328	328	327
7.5°	337	335	333	333	332	331	329	328	326	325	323
10°	335	333	331	330	328	327	325	322	320	319	317
12.5°	334	332	330	329	326	325	322	319	316	314	311
15°	334	331	329	327	324	321	318	315	311	309	304
17.5°	332	329	327	324	321	317	312	308	303	299	294
20°	329	326	322	320	315	311	305	299	293	288	282
22.5°	327	322	317	314	308	303	296	288	282	275	268
25°	324	320	313	308	302	296	287	279	270	262	254
27.5°	322	318	311	303	296	289	279	269	259	250	240
30°	319	315	307	298	288	279	269	257	245	234	223
32.5°	314	310	302	291	280	268	256	243	230	217	207
35°	309	305	297	285	271	259	244	228	214	201	190
37.5°	302	299	291	278	263	248	230	213	198	185	173
40°	292	291	283	269	252	235	215	196	182	168	156
42.5°	281	281	274	259	241	220	199	180	165	151	139
45°	267	268	262	247	228	205	182	163	149	135	124
47.5°	253	253	248	233	213	189	165	146	132	119	107
50°	237	234	231	217	197	171	147	129	116	103	92
52.5°	221	214	212	198	179	153	130	112	100	88	77
55°	203	194	188	178	160	135	112	96	84	72	62
57.5°	183	174	165	156	140	116	95	80	69	58	48
60°	162	152	141	133	119	97	79	65	54	43	34
62.5°	141	131	121	112	98	79	63	50	40	30	22
65°	118	108	99	88	77	62	47	36	27	18	12
67.5°	102	88	79	69	57	45	33	23	15	9	4
70°	93	69	59	50	39	29	20	12	6	3	1
72.5°	68	54	41	33	24	16	10	5	2	1	1
75°	43	41	26	19	12	7	3	1	1	1	1
77.5°	24	21	14	9	4	2	1	1	1	1	0
80°	9	8	5	3	1	1	1	0	0	0	0
82.5°	2	2	1	1	1	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	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°	332	332	332	332	332	332	332	332	332	332	332
2.5°	326	327	327	326	327	326	326	325	326	326	326
5°	325	325	325	323	323	322	322	321	321	321	320
7.5°	321	321	320	318	317	315	315	313	313	313	312
10°	314	313	311	309	307	305	304	302	301	301	299
12.5°	307	306	303	301	299	296	294	292	290	289	288
15°	300	298	295	291	289	286	284	281	279	278	276
17.5°	289	287	282	279	276	272	270	267	265	263	261
20°	276	273	267	264	259	256	252	249	247	244	244
22.5°	261	257	251	246	241	236	233	228	225	221	219
25°	245	241	233	227	221	215	210	205	202	198	197
27.5°	232	224	216	208	200	194	189	183	178	175	172
30°	214	206	197	189	181	173	167	160	155	150	148
32.5°	196	188	178	169	160	153	147	140	135	132	127
35°	179	169	157	148	139	133	127	121	116	113	108
37.5°	161	150	140	131	123	115	109	103	98	95	90
40°	144	134	125	115	106	99	93	86	81	77	73
42.5°	128	118	109	99	91	83	77	70	64	61	55
45°	113	102	93	83	75	67	61	55	49	45	40
47.5°	97	87	78	68	60	52	45	39	33	30	25
50°	82	72	63	53	45	38	31	26	20	17	13
52.5°	67	57	48	39	31	24	18	13	9	7	5
55°	52	43	34	26	20	13	9	6	4	3	3
57.5°	39	30	22	16	10	6	4	2	2	2	2
60°	26	19	12	7	4	2	1	1	1	1	1
62.5°	15	10	5	2	1	1	1	1	1	1	1
65°	7	3	1	1	1	1	1	1	0	0	0
67.5°	2	1	1	1	1	1	0	0	0	0	0
70°	1	1	1	1	0	0	0	0	0	0	0
72.5°	1	1	1	0	0	0	0	0	0	0	0
75°	1	0	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	332	332	332	332
2.5°	326	326	326	326
5°	320	320	320	320
7.5°	311	312	311	311
10°	298	299	298	298
12.5°	287	286	286	286
15°	275	274	274	273
17.5°	260	259	258	258
20°	240	239	237	237
22.5°	217	216	214	214
25°	194	193	191	191
27.5°	169	168	167	167
30°	145	144	142	142
32.5°	124	122	121	120
35°	105	103	102	101
37.5°	88	86	84	83
40°	70	68	66	65
42.5°	52	50	49	48
45°	37	35	33	33
47.5°	23	21	20	19
50°	12	10	9	9
52.5°	5	5	5	5
55°	3	3	4	4
57.5°	2	2	3	3
60°	1	2	2	2
62.5°	1	1	1	1
65°	0	0	1	1
67.5°	0	0	0	0
70°	0	0	0	0
72.5°	0	0	0	0
75°	0	0	0	0
77.5°	0	0	0	0
80°	0	0	0	0
82.5°	0	0	0	0
85°	0	0	0	0
87.5°	0	0	0	0
90°	0	0	0	0

(END OF REPORT)