

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: LUMIERE

Report Number: P394785

Luminaire Tested: **303-B2-LEDB4-3500-UNV-T5X-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (Compare Roadway Adding Tool)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 303-B2-LEDB4-3500-UNV-T5X-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 5 WITH EDGE GLOW
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2417.4 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 1.06' x H: 0.01')
IES Classification: Type I - Short
BUG Rating: B1 - U2 - G1

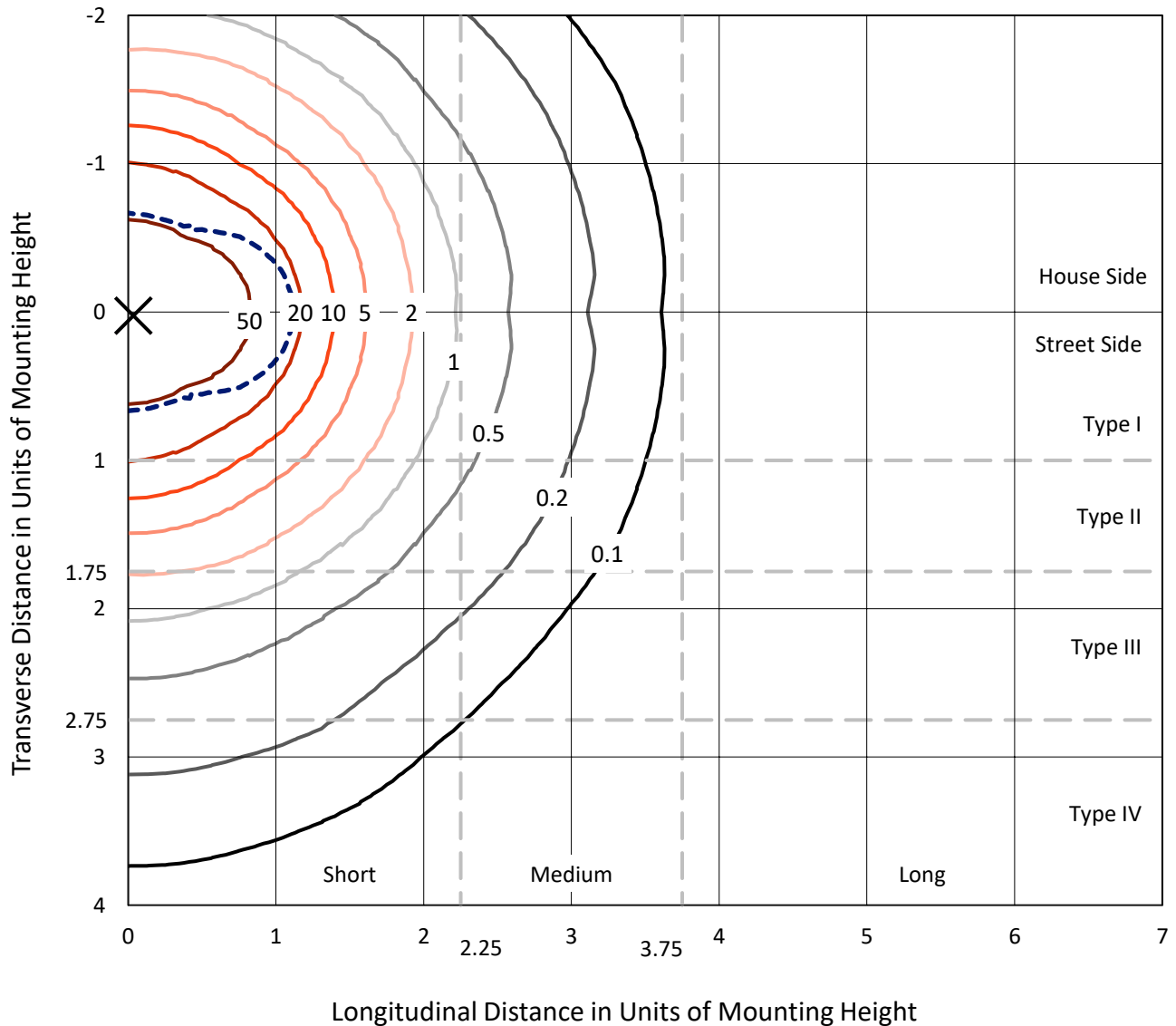
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

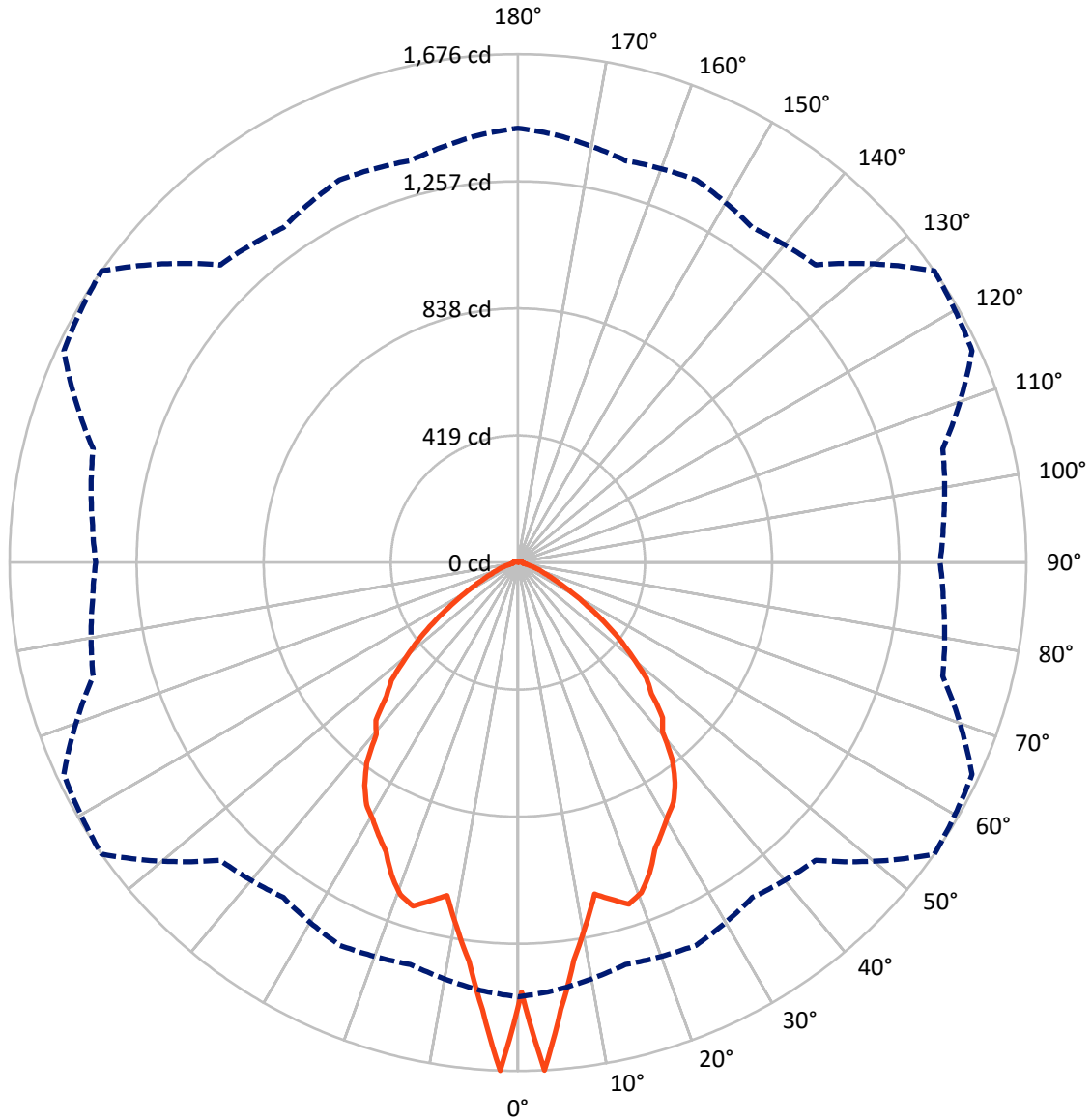
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 157.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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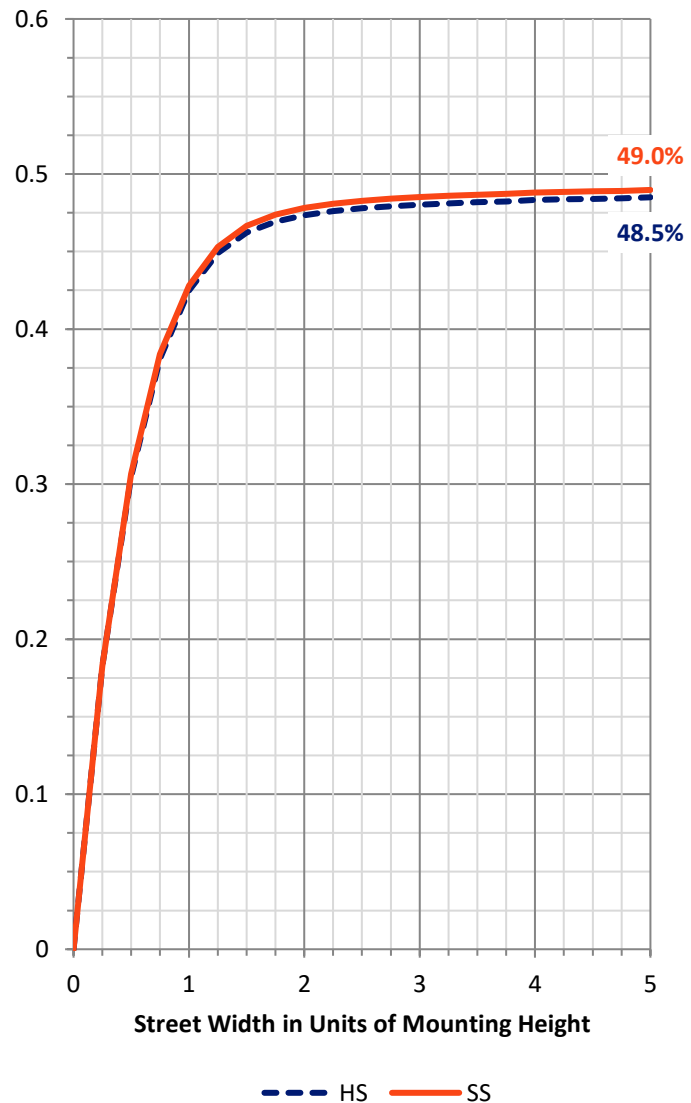
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.9	21.8	1208.7
	% Fixture	49.1	0.9	50.0
Street Side	Lumens	1186.9	21.8	1208.7
	% Fixture	49.1	0.9	50.0
Total	Lumens	2373.8	43.6	2417.4
	% Fixture	98.2	1.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	4.9
10°-20°	310.3	12.8
20°-30°	460.8	19.1
30°-40°	523.0	21.6
40°-50°	467.6	19.3
50°-60°	297.2	12.3
60°-70°	123.6	5.1
70°-80°	51.0	2.1
80°-90°	21.6	0.9
90°-100°	16.6	0.7
100°-110°	12.2	0.5
110°-120°	7.5	0.3
120°-130°	4.2	0.2
130°-140°	2.0	0.1
140°-150°	1.0	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2373.8	98.2
0°-180°	2417.4	100.0



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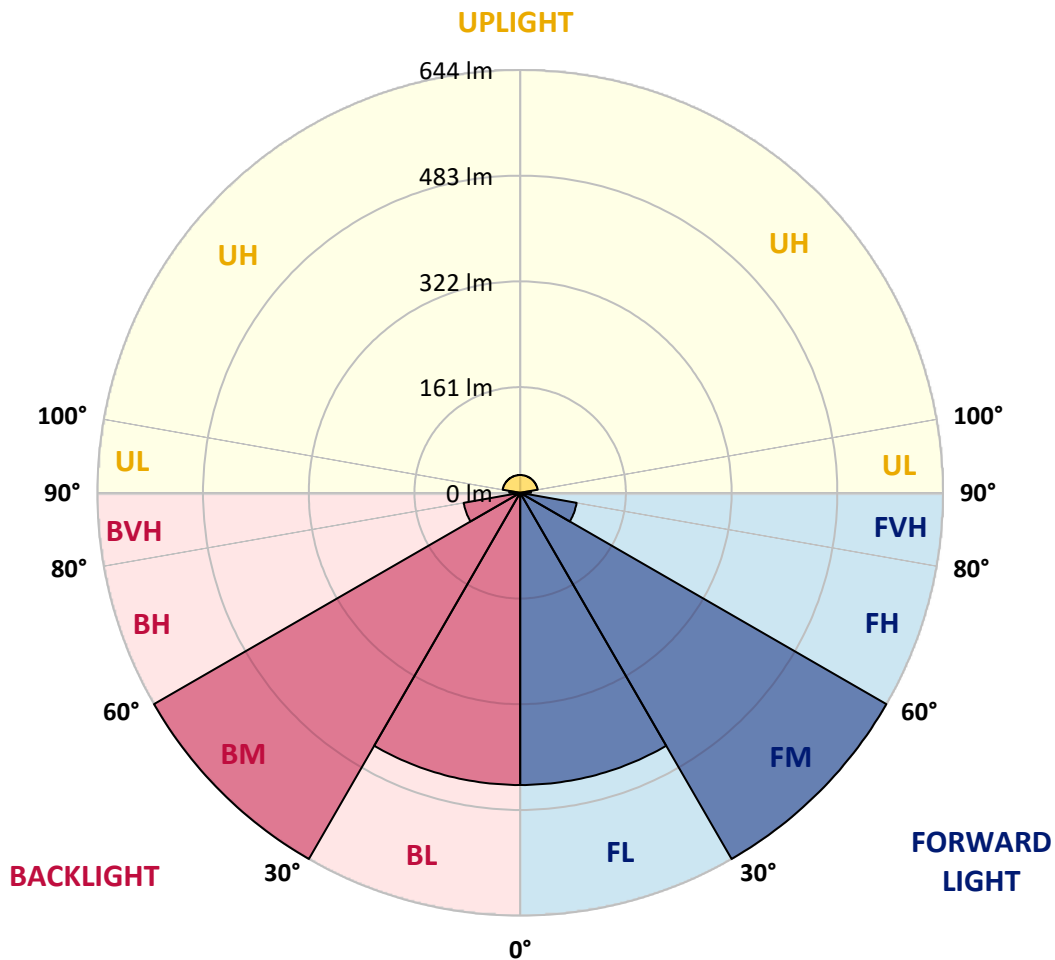
CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.9	18.4			
FM (30°-60°)	643.9	26.6			
FH (60°-80°)	87.3	3.6			G0/660
FVH (80°-90°)	10.8	0.4			G1/100
BL (0°-30°)	444.9	18.4	B1/500		
BM (30°-60°)	643.9	26.6	B1/1000		
BH (60°-80°)	87.3	3.6	B0/110		G0/110
BVH (80°-90°)	10.8	0.4			G1/100
UL (90°-100°)	16.6	0.7		U2/50	
UH (100°-180°)	27.1	1.1		U2/50	

BUG Rating: B1-U2-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416	1416
2.5°	1432	1416	1394	1372	1382	1392	1370	1348	1368	1388	1532
5°	1126	1144	1147	1150	1151	1152	1169	1186	1226	1266	1373
7.5°	936	960	950	940	944	948	972	996	1079	1162	1243
10°	1008	1016	1004	992	972	952	938	924	958	992	1106
12.5°	990	1022	1016	1010	1024	1038	1019	1000	993	986	1054
15°	896	908	907	906	922	938	956	974	1020	1066	1109
17.5°	866	880	876	872	875	878	879	880	958	1036	1110
20°	876	878	870	862	864	866	865	864	914	964	1063
22.5°	862	862	863	864	872	880	854	828	877	926	1019
25°	832	836	833	830	840	850	850	850	878	906	977
27.5°	796	810	803	796	802	808	808	808	853	898	954
30°	762	770	766	762	768	774	771	768	817	866	919
32.5°	726	730	727	724	728	732	731	730	767	804	873
35°	686	698	684	670	683	696	701	706	735	764	828
37.5°	648	646	642	638	644	650	654	658	681	704	766
40°	608	612	606	600	600	600	601	602	618	634	684
42.5°	572	564	558	552	552	552	552	552	578	604	652
45°	520	512	505	498	501	504	503	502	524	546	582
47.5°	464	468	460	452	456	460	453	446	469	492	531
50°	408	408	399	390	393	396	395	394	412	430	460
52.5°	348	350	344	338	341	344	338	332	349	366	392
55°	288	292	287	282	284	286	283	280	292	304	324
57.5°	228	228	229	230	231	232	230	228	239	250	261
60°	156	160	164	168	176	184	182	180	187	194	204
62.5°	128	128	127	126	128	130	136	142	147	152	156
65°	104	104	103	102	104	106	106	106	111	116	120
67.5°	88	88	87	86	85	84	84	84	88	92	92
70°	72	74	73	72	72	72	70	68	68	68	71
72.5°	62	62	61	60	60	60	57	54	54	54	56
75°	52	52	51	50	49	48	46	44	43	42	42
77.5°	44	44	43	42	42	42	40	38	36	34	32
80°	38	38	37	36	36	36	34	32	30	28	25
82.5°	34	34	33	32	31	30	28	26	25	24	21
85°	32	30	30	30	29	28	26	24	22	20	18
87.5°	28	28	28	28	27	26	24	22	21	20	17
90°	28	28	27	26	25	24	23	22	20	18	16
92.5°	26	26	26	26	25	24	23	22	20	18	16
95°	26	26	25	24	24	24	22	20	19	18	16
97.5°	24	24	23	22	22	22	21	20	18	16	14
100°	22	22	22	22	21	20	19	18	17	16	14
102.5°	20	20	20	20	19	18	17	16	15	14	12
105°	18	18	18	18	18	18	17	16	15	14	12
107.5°	18	18	17	16	16	16	15	14	13	12	11
110°	16	16	16	16	15	14	13	12	11	10	9



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CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T5X-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	14	14	14	14	13	12	12	12	11	10	9
115°	12	12	12	12	12	12	11	10	9	8	7
117.5°	12	12	11	10	10	10	9	8	8	8	7
120°	10	10	10	10	9	8	8	8	7	6	6
122.5°	8	8	8	8	8	8	7	6	6	6	5
125°	8	8	8	8	7	6	6	6	6	6	5
127.5°	6	6	6	6	6	6	6	6	5	4	4
130°	6	6	6	6	5	4	4	4	4	4	4
132.5°	4	4	4	4	4	4	4	4	4	4	3
135°	4	4	4	4	4	4	4	4	3	2	2
137.5°	2	2	3	4	3	2	2	2	2	2	2
140°	2	2	2	2	2	2	2	2	2	2	2
142.5°	2	2	2	2	2	2	2	2	2	2	2
145°	2	2	2	2	2	2	2	2	2	2	2
147.5°	0	0	1	2	2	2	2	2	2	2	2
150°	0	0	0	0	1	2	2	2	2	2	2
152.5°	0	0	0	0	0	0	1	2	2	2	2
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°
0°	1416	1416	1416	1416	1416	1416	1416	1416
2.5°	1676	1664	1652	1551	1450	1429	1408	1392
5°	1480	1445	1410	1492	1574	1491	1408	1408
7.5°	1324	1352	1380	1422	1464	1436	1408	1376
10°	1220	1284	1348	1394	1440	1407	1374	1368
12.5°	1122	1198	1274	1352	1430	1402	1374	1360
15°	1152	1162	1172	1288	1404	1391	1378	1336
17.5°	1184	1172	1160	1275	1390	1376	1362	1332
20°	1162	1164	1166	1255	1344	1349	1354	1300
22.5°	1112	1160	1208	1249	1290	1307	1324	1308
25°	1048	1116	1184	1205	1226	1266	1306	1300
27.5°	1010	1079	1148	1174	1200	1236	1272	1252
30°	972	1028	1084	1118	1152	1186	1220	1208
32.5°	942	985	1028	1086	1144	1166	1188	1176
35°	892	928	964	1018	1072	1092	1112	1108
37.5°	828	865	902	958	1014	1030	1046	1040
40°	734	789	844	888	932	948	964	964
42.5°	700	738	776	820	864	878	892	888
45°	618	661	704	742	780	798	816	796
47.5°	570	593	616	657	698	716	734	708
50°	490	514	538	569	600	614	628	628
52.5°	418	438	458	479	500	513	526	528
55°	344	358	372	387	402	412	422	412
57.5°	272	284	296	304	312	318	324	316
60°	214	219	224	230	236	241	246	240
62.5°	160	166	172	174	176	178	180	176
65°	124	126	128	131	134	138	142	136
67.5°	92	96	100	104	108	110	112	108
70°	74	77	80	82	84	86	88	80
72.5°	58	60	62	63	64	65	66	60
75°	42	44	46	46	46	46	46	44
77.5°	30	31	32	32	32	31	30	28
80°	22	21	20	20	20	19	18	16
82.5°	18	16	14	13	12	9	6	4
85°	16	14	12	9	6	4	2	0
87.5°	14	12	10	7	4	2	0	0
90°	14	12	10	7	4	2	0	0
92.5°	14	12	10	7	4	2	0	0
95°	14	12	10	7	4	2	0	0
97.5°	12	10	8	6	4	2	0	0
100°	12	10	8	6	4	2	0	0
102.5°	10	9	8	6	4	2	0	0
105°	10	9	8	6	4	2	0	0
107.5°	10	8	6	5	4	2	0	0
110°	8	7	6	4	2	1	0	0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	8	7	6	4	2	1	0	0
115°	6	5	4	3	2	1	0	0
117.5°	6	5	4	3	2	1	0	0
120°	6	5	4	3	2	1	0	0
122.5°	4	4	4	3	2	1	0	0
125°	4	3	2	2	2	1	0	0
127.5°	4	3	2	2	2	1	0	0
130°	4	3	2	2	2	1	0	0
132.5°	2	2	2	2	2	1	0	0
135°	2	2	2	2	2	1	0	0
137.5°	2	2	2	2	2	1	0	0
140°	2	2	2	2	2	1	0	0
142.5°	2	2	2	2	2	1	0	0
145°	2	2	2	1	0	0	0	0
147.5°	2	2	2	1	0	0	0	0
150°	2	2	2	1	0	0	0	0
152.5°	2	2	2	1	0	0	0	0
155°	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)