

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: P394765

Luminaire Tested: **303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE**

Issue Date: 4/9/2020

Test Information

Test Method: LM-79-08
Report Number: P394765
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-T2-DIM10-EDGE
Description: LUMIERE EON LED LUMINAIRE
BOLLARD, DUAL HEAD, FOUR LIGHTBAR, TYPE 2 WITH EDGE GLOW
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2701.4 lumens
Efficiency: N/A
Efficacy: 88.3 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

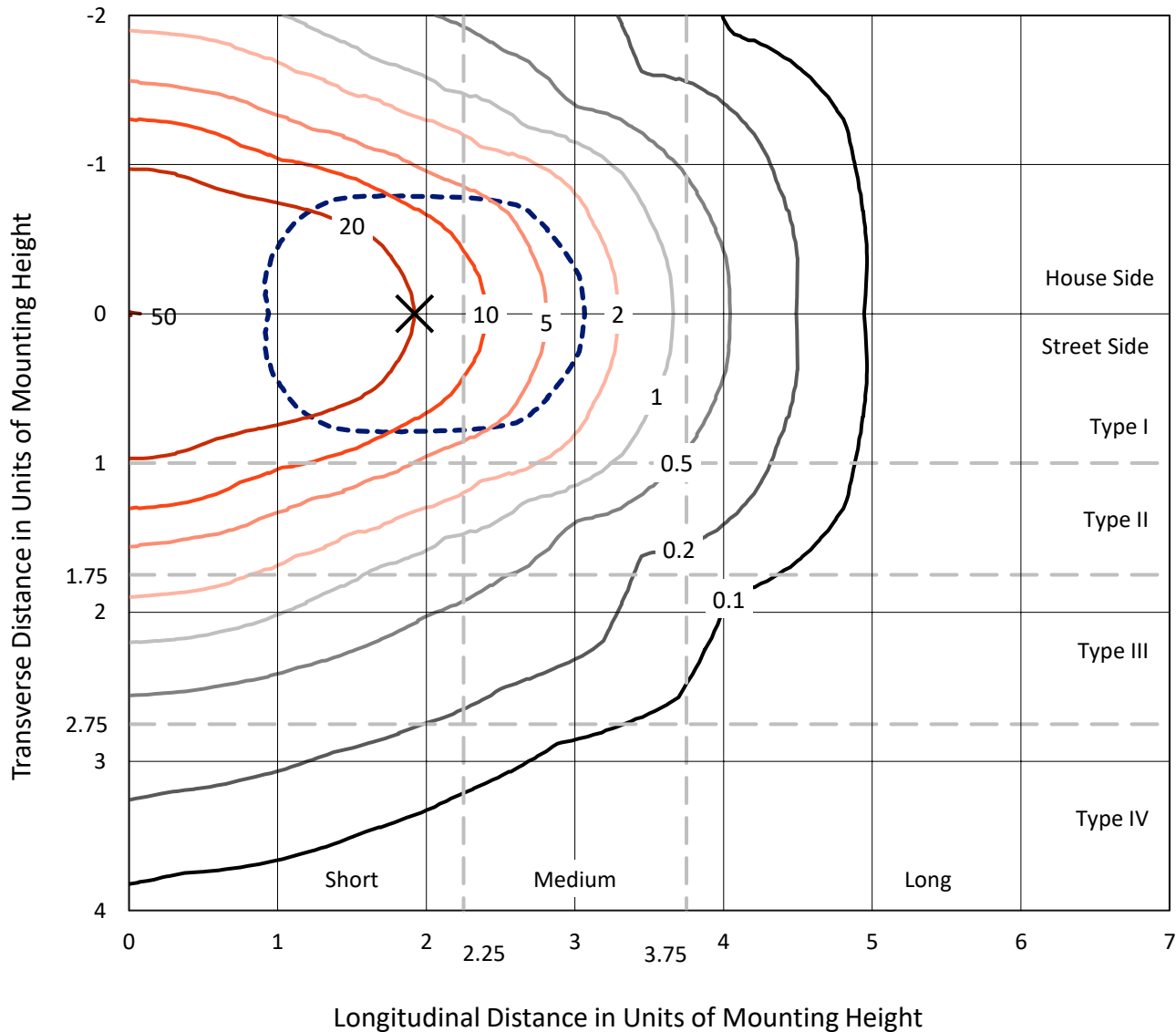
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P394765
 CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE

Iso-Footcandle Lines of Horizontal Illumination

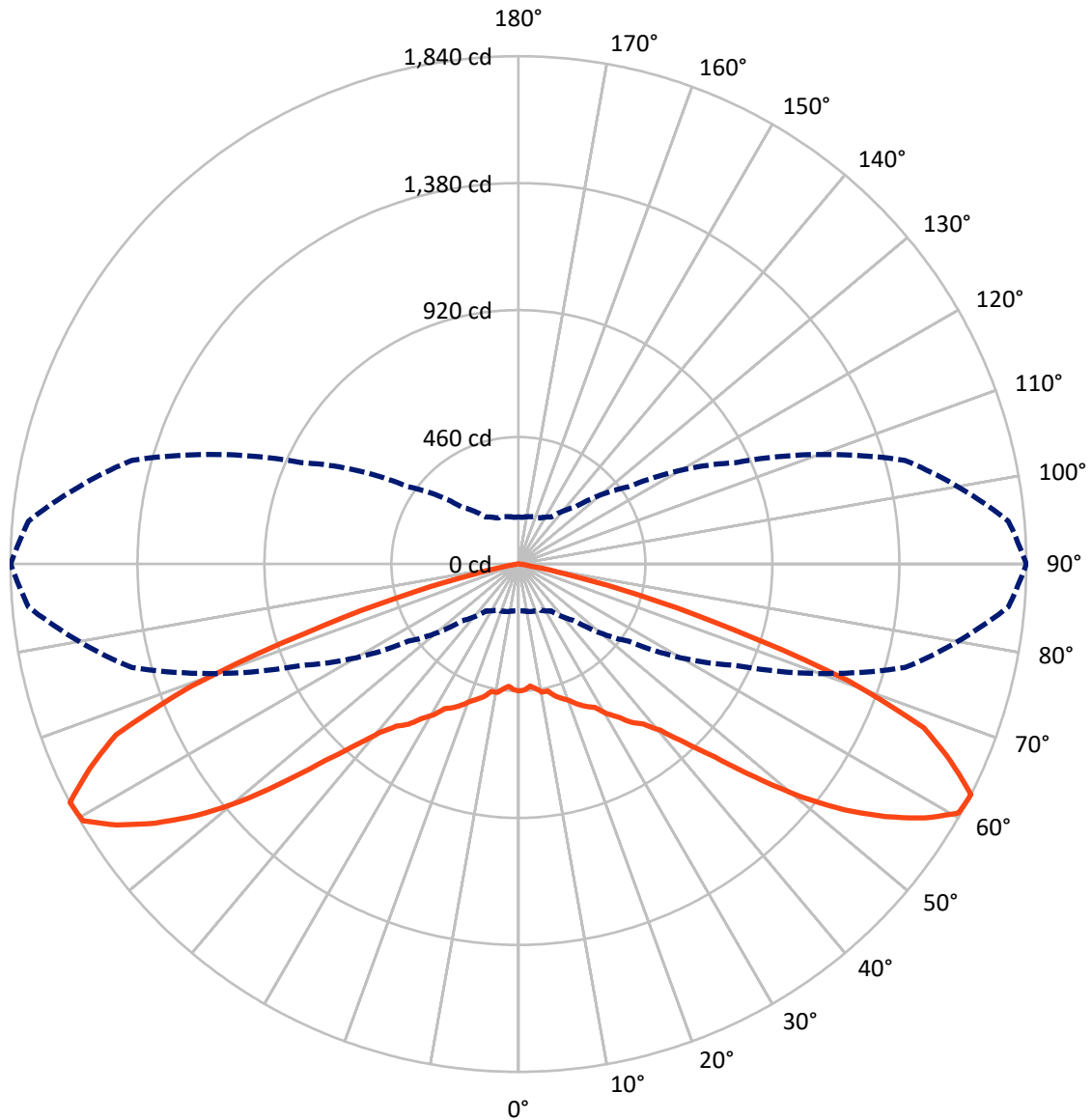
× Max cd
 - - - 1/2 Max cd



Based on 3 foot mounting height. Maximum calculated value = 51.1 fc
 Type I - Short - N/A

REPORT NUMBER: P394765
CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P394765

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE

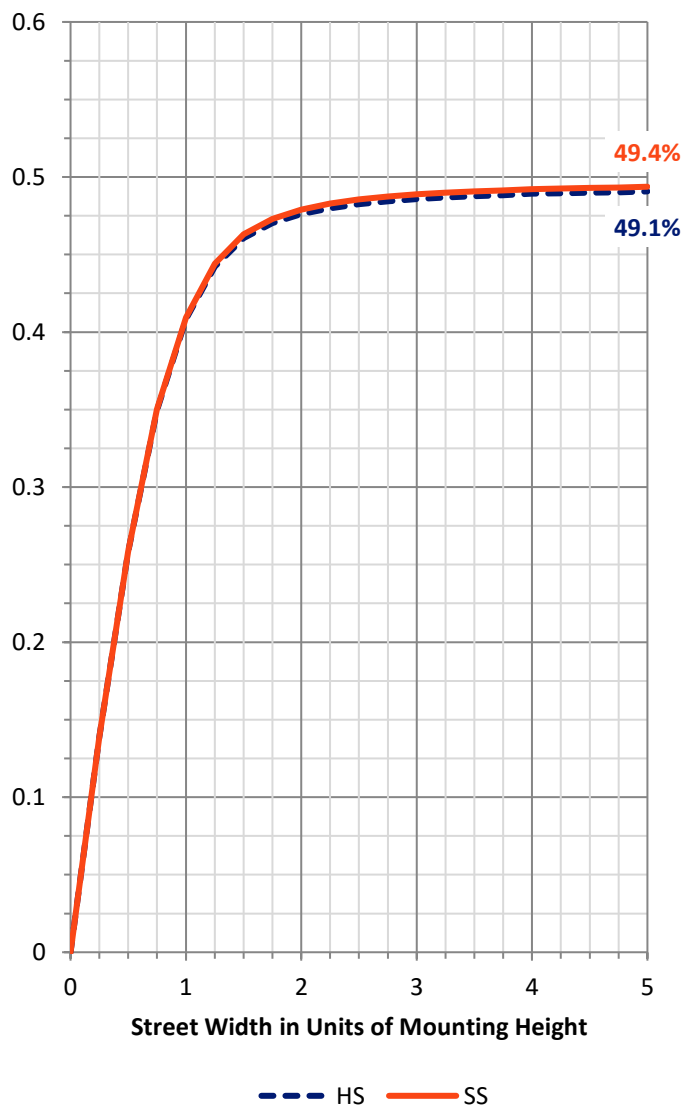
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1336.2	14.5	1350.7
	% Fixture	49.5	0.5	50.0
Street Side	Lumens	1336.2	14.5	1350.7
	% Fixture	49.5	0.5	50.0
Total	Lumens	2672.4	29.0	2701.4
	% Fixture	98.9	1.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.4
10°-20°	112.6	4.2
20°-30°	218.6	8.1
30°-40°	370.2	13.7
40°-50°	534.8	19.8
50°-60°	670.2	24.8
60°-70°	529.5	19.6
70°-80°	173.1	6.4
80°-90°	25.1	0.9
90°-100°	11.7	0.4
100°-110°	8.0	0.3
110°-120°	4.8	0.2
120°-130°	2.7	0.1
130°-140°	1.3	0.0
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2672.4	98.9
0°-180°	2701.4	100.0

Coefficient of Utilization



REPORT NUMBER: P394765

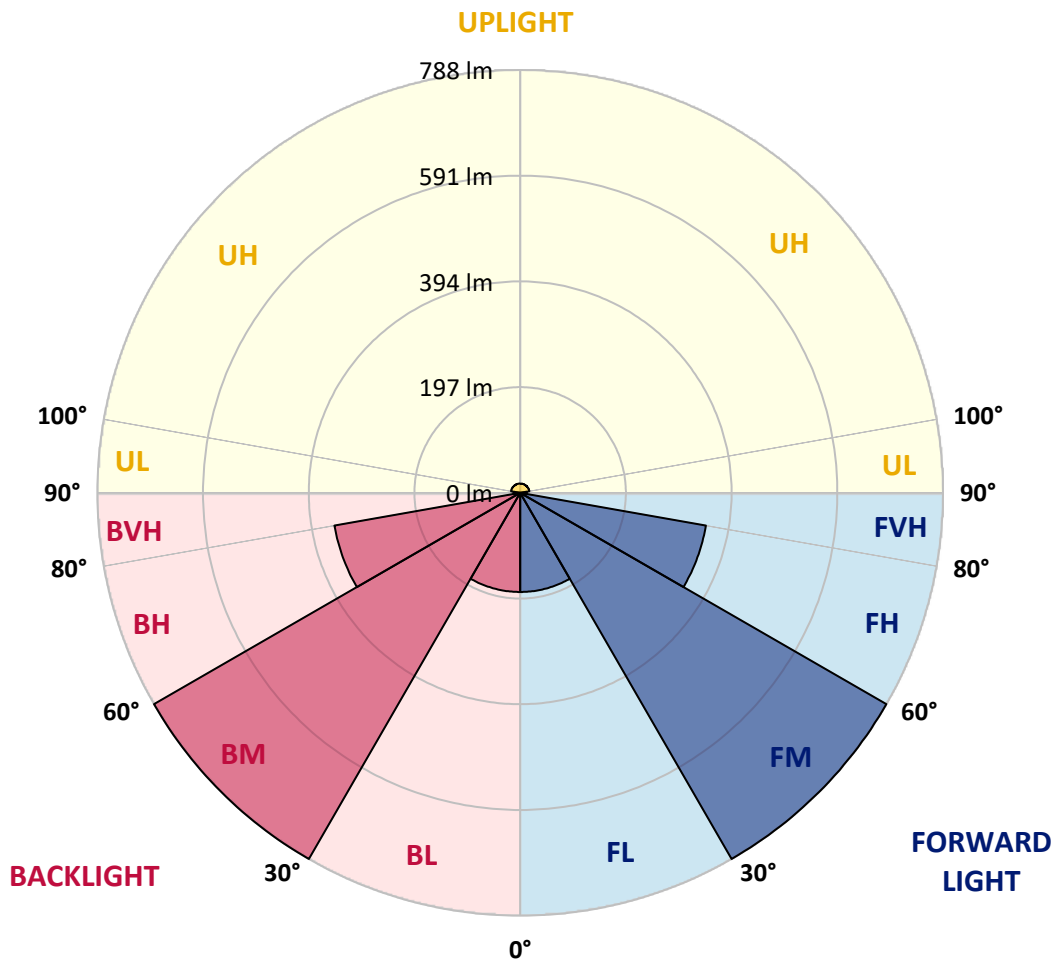
CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.7	6.8			
FM (30°-60°)	787.6	29.2			
FH (60°-80°)	351.3	13.0			G0/660
FVH (80°-90°)	12.6	0.5			G1/100
BL (0°-30°)	184.7	6.8	B1/500		
BM (30°-60°)	787.6	29.2	B1/1000		
BH (60°-80°)	351.3	13.0	B1/500		G1/500
BVH (80°-90°)	12.6	0.5			G1/100
UL (90°-100°)	11.7	0.4		U2/50	
UH (100°-180°)	17.3	0.6		U2/50	

BUG Rating: B1-U2-G1

Type I Short





REPORT NUMBER: P394765

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	460	460	460	460	460	460	460	460	460	460	460
2.5°	436	432	434	436	435	434	433	432	431	430	436
5°	344	350	353	356	359	362	366	370	380	390	406
7.5°	336	346	342	338	337	336	333	330	341	352	380
10°	342	346	347	348	346	344	345	346	352	358	371
12.5°	328	330	333	336	336	336	338	340	355	370	387
15°	332	336	333	330	333	336	335	334	349	364	391
17.5°	340	348	350	352	349	346	341	336	349	362	392
20°	372	372	373	374	372	370	368	366	372	378	401
22.5°	392	392	394	396	394	392	390	388	400	412	427
25°	416	416	418	420	421	422	416	410	423	436	453
27.5°	442	444	445	446	447	448	447	446	461	476	496
30°	466	464	471	478	477	476	476	476	490	504	531
32.5°	476	482	487	492	497	502	504	506	522	538	570
35°	492	486	498	510	514	518	516	514	539	564	603
37.5°	494	500	505	510	518	526	522	518	554	590	634
40°	496	498	505	512	517	522	532	542	563	584	639
42.5°	492	492	499	506	511	516	526	536	574	612	672
45°	482	488	489	490	496	502	514	526	571	616	673
47.5°	462	458	465	472	483	494	503	512	557	602	680
50°	434	438	442	446	456	466	472	478	528	578	671
52.5°	398	402	407	412	424	436	442	448	500	552	662
55°	356	332	344	356	370	384	397	410	456	502	626
57.5°	272	268	273	278	297	316	335	354	398	442	570
60°	222	210	214	218	230	242	260	278	326	374	486
62.5°	170	170	174	178	181	184	196	208	250	292	390
65°	134	132	135	138	142	146	152	158	179	200	278
67.5°	102	102	104	106	110	114	119	124	136	148	193
70°	82	80	81	82	87	92	101	110	119	128	148
72.5°	74	70	70	70	71	72	79	86	100	114	131
75°	58	54	55	56	57	58	62	66	73	80	101
77.5°	38	38	38	38	38	38	40	42	47	52	70
80°	30	30	30	30	30	30	29	28	31	34	41
82.5°	26	26	26	26	25	24	24	24	23	22	25
85°	22	22	22	22	22	22	21	20	19	18	17
87.5°	20	20	20	20	19	18	18	18	16	14	13
90°	20	18	18	18	18	18	17	16	15	14	12
92.5°	18	18	18	18	17	16	16	16	14	12	11
95°	18	18	17	16	16	16	15	14	13	12	11
97.5°	16	16	16	16	16	16	15	14	13	12	11
100°	14	14	14	14	14	14	13	12	11	10	9
102.5°	14	14	14	14	13	12	12	12	11	10	9
105°	12	12	12	12	12	12	11	10	9	8	7
107.5°	10	10	10	10	10	10	10	10	9	8	7
110°	10	10	10	10	10	10	9	8	7	6	6



REPORT NUMBER: P394765

CATALOG NUMBER: 303-B2-LEDB4-3500-UNV-T2-DIM10-EDGE

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	8	8	8	8	8	8	8	8	7	6	5
115°	8	8	8	8	7	6	6	6	6	6	5
117.5°	6	6	6	6	6	6	6	6	5	4	4
120°	6	6	6	6	6	6	6	6	5	4	4
122.5°	4	4	4	4	4	4	4	4	4	4	4
125°	4	4	4	4	4	4	4	4	4	4	3
127.5°	4	4	4	4	4	4	4	4	3	2	2
130°	2	2	3	4	4	4	4	4	3	2	2
132.5°	2	2	2	2	2	2	2	2	2	2	2
135°	2	2	2	2	2	2	2	2	2	2	2
137.5°	2	2	2	2	2	2	2	2	2	2	2
140°	2	2	2	2	2	2	2	2	2	2	2
142.5°	0	0	1	2	2	2	2	2	2	2	2
145°	0	0	0	0	1	2	2	2	2	2	1
147.5°	0	0	0	0	0	0	1	2	2	2	1
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



REPORT NUMBER: P394765

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	460	460	460	460	460	460	460	460
2.5°	442	464	486	478	470	464	458	456
5°	422	430	438	455	472	466	460	444
7.5°	408	421	434	448	462	464	466	456
10°	384	410	436	451	466	470	474	472
12.5°	404	412	420	448	476	480	484	472
15°	418	419	420	450	480	491	502	496
17.5°	422	435	448	466	484	498	512	512
20°	424	446	468	478	488	510	532	528
22.5°	442	461	480	490	500	526	552	552
25°	470	486	502	517	532	555	578	572
27.5°	516	527	538	552	566	585	604	588
30°	558	566	574	589	604	616	628	628
32.5°	602	614	626	637	648	662	676	660
35°	642	654	666	683	700	706	712	704
37.5°	678	694	710	729	748	747	746	736
40°	694	723	752	781	810	810	810	792
42.5°	732	771	810	845	880	890	900	884
45°	730	792	854	910	966	1003	1040	996
47.5°	758	828	898	986	1074	1134	1194	1152
50°	764	855	946	1073	1200	1258	1316	1324
52.5°	772	900	1028	1183	1338	1407	1476	1480
55°	750	904	1058	1260	1462	1536	1610	1616
57.5°	698	887	1076	1308	1540	1647	1754	1736
60°	598	803	1008	1269	1530	1660	1790	1832
62.5°	488	679	870	1160	1450	1616	1782	1840
65°	356	530	704	1016	1328	1514	1700	1720
67.5°	238	374	510	842	1174	1358	1542	1584
70°	168	254	340	637	934	1074	1214	1268
72.5°	148	175	202	394	586	693	800	816
75°	122	117	112	206	300	369	438	448
77.5°	88	86	84	115	146	162	178	168
80°	48	66	84	85	86	67	48	44
82.5°	28	43	58	55	52	38	24	20
85°	16	19	22	19	16	13	10	8
87.5°	12	10	8	7	6	4	2	0
90°	10	9	8	6	4	3	2	0
92.5°	10	9	8	6	4	2	0	0
95°	10	8	6	5	4	2	0	0
97.5°	10	8	6	5	4	2	0	0
100°	8	7	6	5	4	2	0	0
102.5°	8	7	6	4	2	1	0	0
105°	6	5	4	3	2	1	0	0
107.5°	6	5	4	3	2	1	0	0
110°	6	5	4	3	2	1	0	0



REPORT NUMBER: P394765

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	4	4	4	3	2	1	0	0
115°	4	4	4	3	2	1	0	0
117.5°	4	3	2	2	2	1	0	0
120°	4	3	2	2	2	1	0	0
122.5°	4	3	2	2	2	1	0	0
125°	2	2	2	2	2	1	0	0
127.5°	2	2	2	2	2	1	0	0
130°	2	2	2	2	2	1	0	0
132.5°	2	2	2	1	0	0	0	0
135°	2	2	2	1	0	0	0	0
137.5°	2	2	2	1	0	0	0	0
140°	2	1	0	0	0	0	0	0
142.5°	2	1	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	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)