

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: INVUE

Report Number: P173677

Luminaire Tested: **ENT-FXX-LED-E1-SLR-7030-ULG-CWB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173677  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-FXX-LED-E1-SLR-7030-ULG-CWB  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1290.8 lumens  
Efficiency: N/A  
Efficacy: 234.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U3 - G1

Input Watts (W): 5.5  
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

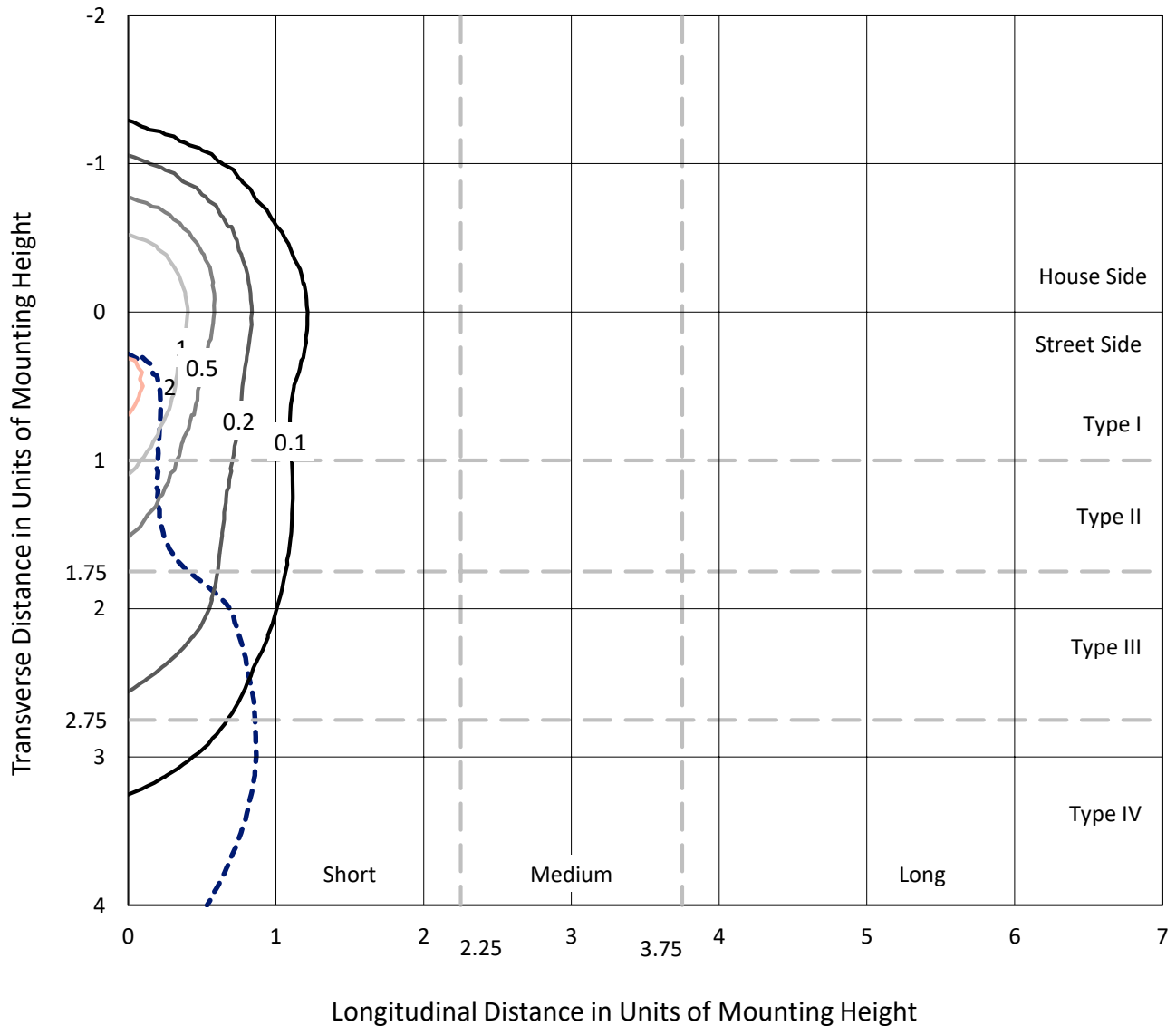


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

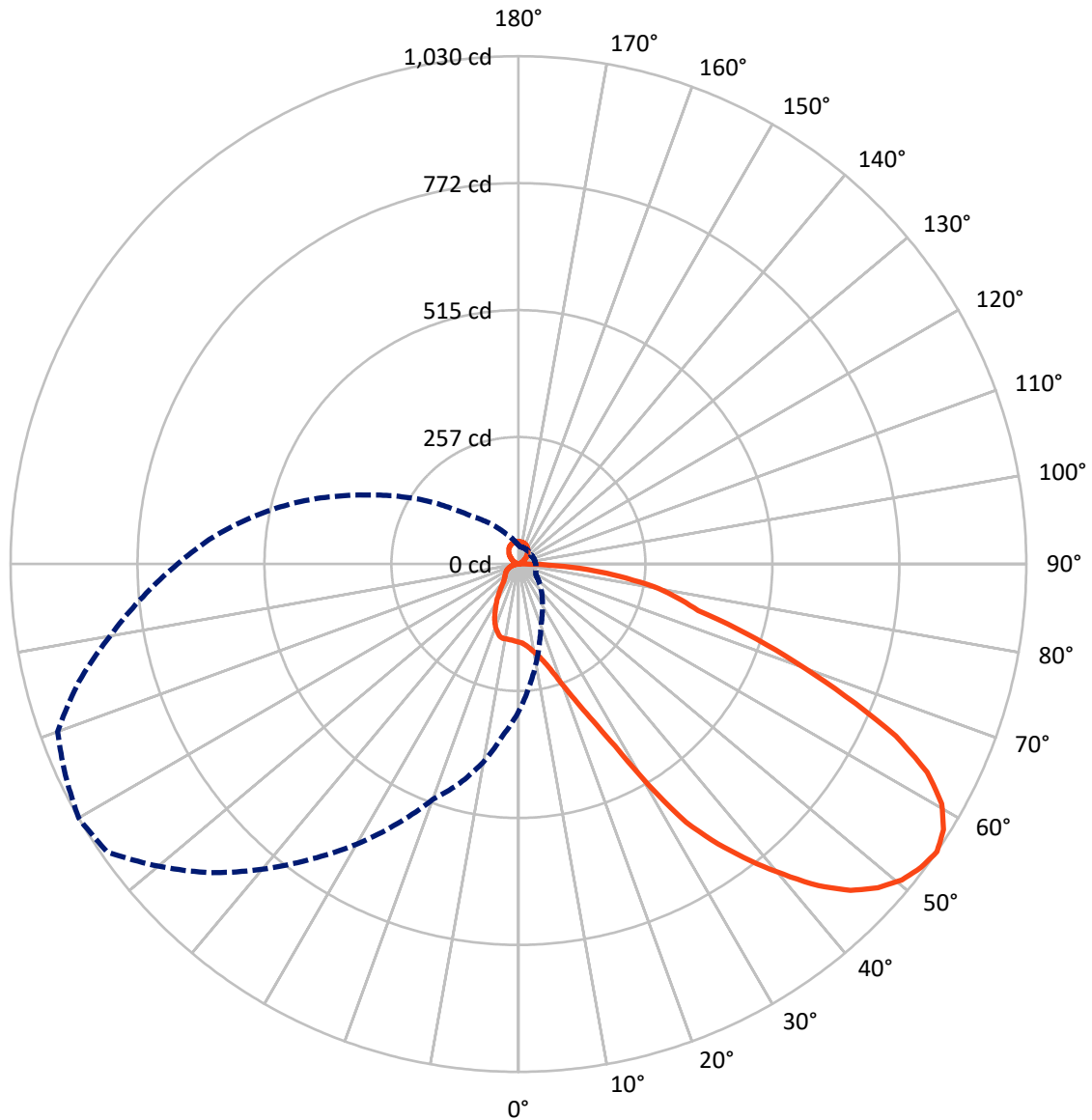


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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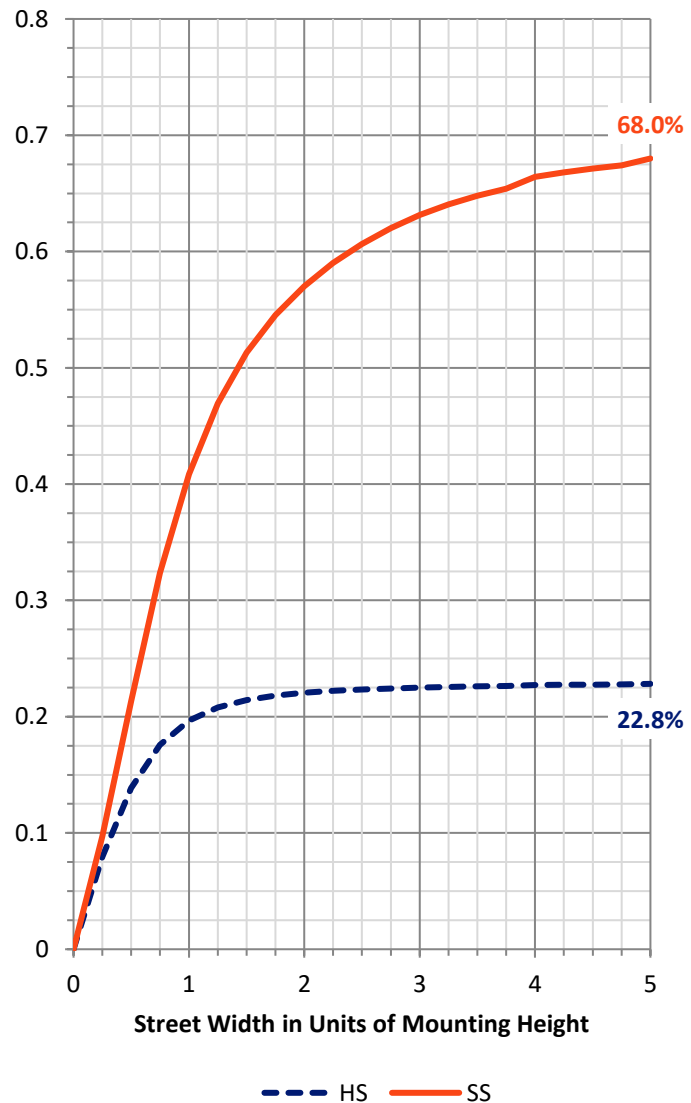
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	297.1	51.1	348.2
	% Fixture	23.0	4.0	27.0
<b>Street Side</b>	Lumens	891.5	51.1	942.6
	% Fixture	69.1	4.0	73.0
<b>Total</b>	Lumens	1188.6	102.1	1290.8
	% Fixture	92.1	7.9	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.6	1.2
10°-20°	51.3	4.0
20°-30°	99.5	7.7
30°-40°	156.4	12.1
40°-50°	209.1	16.2
50°-60°	245.3	19.0
60°-70°	232.8	18.0
70°-80°	140.5	10.9
80°-90°	38.1	2.9
90°-100°	0.4	0.0
100°-110°	4.0	0.3
110°-120°	8.2	0.6
120°-130°	13.9	1.1
130°-140°	19.4	1.5
140°-150°	21.2	1.6
150°-160°	18.4	1.4
160°-170°	12.4	1.0
170°-180°	4.3	0.3
0°-90°	1188.6	92.1
0°-180°	1290.8	100.0



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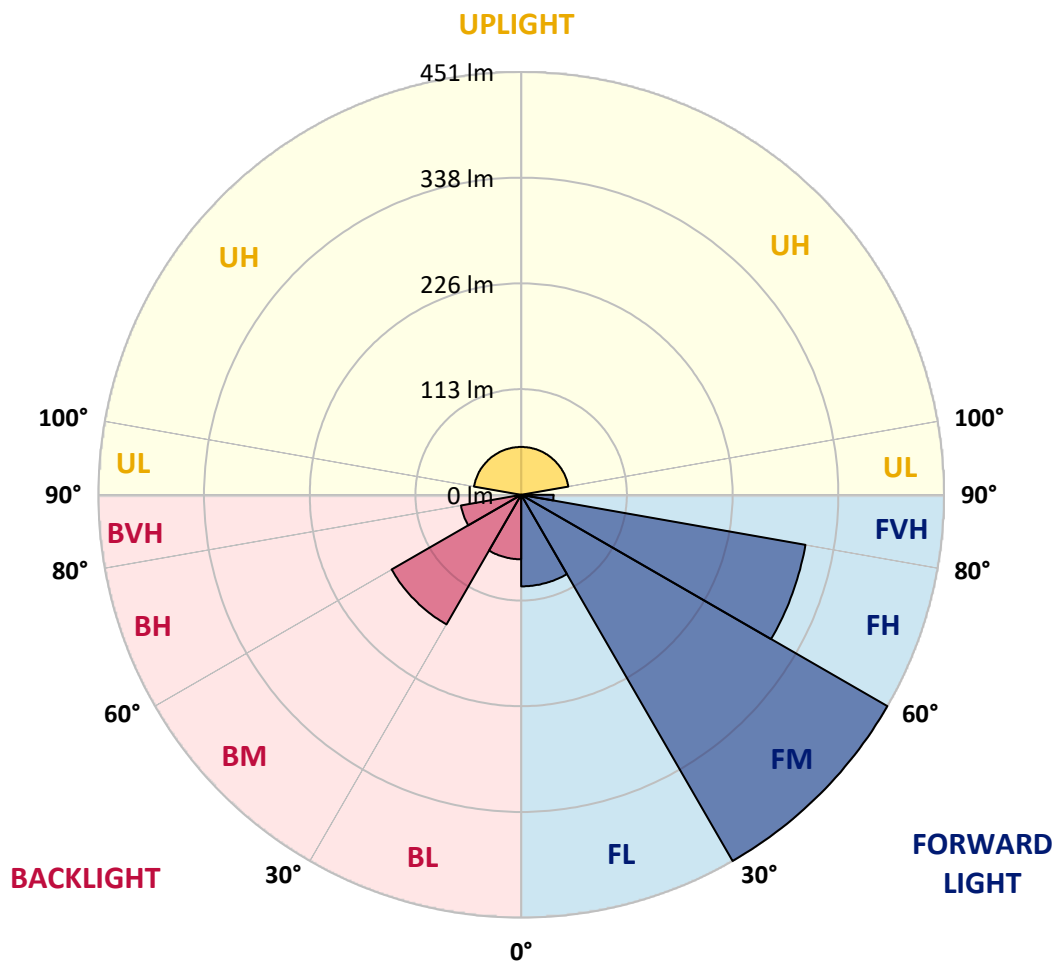
CATALOG NUMBER: ENT-FXX-LED-E1-SLR-7030-ULG-CWB

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.7	7.6			
FM	(30°-60°)	451.2	35.0			
FH	(60°-80°)	308.0	23.9			G0/660
FVH	(80°-90°)	34.6	2.7			G1/100
BL	(0°-30°)	68.8	5.3	B0/110		
BM	(30°-60°)	159.7	12.4	B0/220		
BH	(60°-80°)	65.2	5.1	B0/110		G0/110
BVH	(80°-90°)	3.5	0.3			G0/10
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	51.1	4.0		U3/500	

**BUG Rating: B0-U3-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	161.8	163.1	161.6	161.8	161.4	160.9	161.1	160.9	160.4	160.4	159.9
5°	165.8	166.0	165.0	164.8	164.3	163.6	163.8	163.1	162.6	162.1	161.1
7.5°	170.4	170.1	168.9	168.2	167.9	166.7	166.5	165.5	164.8	164.1	162.8
10°	177.5	175.5	174.1	172.8	172.3	170.9	169.7	169.2	167.9	166.3	165.3
12.5°	187.7	186.5	183.6	181.1	179.7	177.7	176.0	174.8	172.8	170.4	169.2
15°	206.0	202.1	198.7	195.0	192.1	188.9	184.8	181.6	178.2	174.1	170.9
17.5°	229.7	224.8	219.4	213.6	207.5	200.7	192.6	186.5	179.7	172.6	167.7
20°	258.8	249.7	242.2	230.9	219.7	209.0	196.3	185.5	175.8	166.5	159.4
22.5°	291.5	277.8	262.4	245.3	227.3	210.7	192.9	178.2	164.1	152.6	144.5
25°	328.8	307.3	283.9	258.0	232.1	207.5	185.5	167.2	152.1	138.4	129.4
27.5°	351.8	322.5	294.4	263.6	234.1	205.6	178.7	157.4	140.1	125.5	115.0
30°	356.7	327.1	294.2	260.7	230.2	199.0	169.7	146.0	126.7	111.3	100.8
32.5°	360.1	325.9	289.3	252.2	219.0	186.0	156.2	132.8	112.3	97.2	85.0
35°	361.1	321.3	280.0	238.7	203.8	170.1	140.4	115.7	97.9	83.0	72.0
37.5°	359.6	313.7	267.6	224.8	187.5	152.3	123.0	101.6	86.4	72.0	62.3
40°	353.7	304.2	256.3	211.4	170.9	134.5	108.4	89.8	76.9	65.9	58.3
42.5°	346.2	293.2	243.9	195.8	154.8	120.3	96.7	81.8	70.8	63.0	56.6
45°	336.6	281.7	230.9	181.9	141.1	109.6	89.8	77.4	68.8	62.0	56.1
47.5°	324.9	269.5	218.5	171.4	131.8	104.3	88.4	77.4	68.8	61.5	55.2
50°	313.9	258.5	209.0	164.8	127.7	104.5	89.8	78.4	68.6	60.5	53.5
52.5°	305.4	251.9	205.1	162.3	128.1	106.9	92.8	79.8	69.3	60.5	53.0
55°	300.0	249.2	204.6	164.5	133.3	113.5	97.4	84.2	72.7	62.5	53.7
57.5°	300.7	252.2	210.4	173.6	145.0	125.0	106.7	92.0	77.6	64.9	53.9
60°	308.3	261.9	224.6	194.8	164.5	140.4	118.4	98.9	79.8	64.2	52.3
62.5°	327.4	284.9	254.4	223.8	188.7	155.5	125.5	100.1	77.4	60.5	48.1
65°	363.5	326.1	296.9	258.8	208.7	161.8	124.7	96.4	72.7	54.7	42.5
67.5°	398.9	359.3	318.1	260.7	203.8	157.2	116.7	87.4	64.5	46.9	37.6
70°	433.1	381.8	328.8	258.3	189.7	135.2	97.4	73.0	51.3	39.0	32.2
72.5°	410.6	351.5	297.3	227.8	163.1	111.1	77.6	53.0	39.3	32.2	27.8
75°	313.4	272.4	225.3	174.8	120.3	78.4	51.7	37.6	30.3	25.4	22.7
77.5°	225.6	195.0	156.5	114.7	75.2	49.6	35.2	26.8	22.5	19.0	17.6
80°	130.8	112.3	87.6	63.2	43.0	31.0	23.4	19.0	16.3	13.9	13.4
82.5°	81.8	65.4	46.4	31.2	22.0	17.1	13.7	11.7	9.8	8.5	7.3
85°	35.4	25.4	14.4	8.1	6.1	4.6	3.7	3.2	2.7	2.4	1.9
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.5	1.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	159.9	159.4	159.2	159.2	158.7	158.7	158.2	158.4	158.2	157.7	157.4
5°	160.9	160.1	159.6	159.2	158.4	158.2	157.7	157.7	157.0	156.2	156.0
7.5°	162.1	161.1	160.4	159.4	158.4	157.9	157.0	156.5	155.7	155.0	154.8
10°	164.5	162.8	161.6	160.4	158.7	157.7	156.2	155.5	154.8	153.8	153.3
12.5°	167.2	165.0	163.3	160.4	158.7	157.0	155.5	154.0	152.6	151.6	151.4
15°	167.2	164.5	160.9	158.2	155.7	153.3	151.8	150.4	148.7	147.9	147.7
17.5°	163.1	158.4	155.0	152.1	149.9	147.9	146.5	145.7	144.3	142.8	142.3
20°	153.6	148.2	144.3	141.1	138.7	136.7	136.2	135.5	134.7	134.7	135.0
22.5°	137.9	132.1	128.7	125.2	122.5	121.6	121.8	122.5	122.8	122.5	124.3
25°	122.3	116.7	112.1	108.9	105.7	106.4	105.4	107.2	107.9	108.1	110.1
27.5°	107.2	101.1	96.2	93.5	92.0	91.0	90.3	92.5	93.0	94.7	96.4
30°	91.0	85.4	79.8	77.6	76.4	75.7	75.9	77.9	79.1	81.5	83.0
32.5°	76.1	69.3	65.2	62.3	61.0	60.8	61.0	62.5	63.9	67.1	69.3
35°	63.5	56.9	53.5	51.7	50.1	49.3	50.1	50.5	51.0	53.7	56.4
37.5°	56.1	51.5	48.8	47.1	45.9	45.2	45.2	44.9	45.2	45.7	46.9
40°	53.0	49.6	47.1	45.4	44.4	43.9	43.7	43.4	43.2	43.2	43.2
42.5°	51.7	47.9	45.4	43.9	43.4	43.4	43.4	43.2	42.7	42.2	42.0
45°	50.8	46.6	43.9	42.7	42.7	42.7	43.0	42.7	42.2	41.5	40.8
47.5°	49.1	44.9	42.5	41.5	41.5	41.5	41.7	41.5	41.0	40.5	39.8
50°	47.1	42.7	40.3	39.5	39.3	39.3	39.0	38.8	38.6	38.1	37.4
52.5°	45.9	41.2	39.0	38.6	38.1	37.8	37.4	37.1	36.6	36.4	35.6
55°	45.7	40.3	38.3	37.8	37.4	36.6	35.6	35.2	34.2	33.9	33.4
57.5°	44.9	39.3	37.1	35.9	34.7	33.9	33.0	32.5	32.0	31.5	31.0
60°	42.5	36.4	33.7	33.0	32.2	32.0	31.5	31.0	30.3	29.5	28.6
62.5°	37.8	32.7	31.0	30.8	30.5	30.0	29.5	28.8	28.3	27.3	26.4
65°	34.2	30.8	29.8	29.3	29.0	28.3	27.8	27.3	26.6	25.9	24.9
67.5°	31.0	28.6	28.1	27.3	27.1	26.6	25.9	25.4	24.7	23.9	23.0
70°	28.1	26.1	25.9	25.4	24.9	24.7	23.7	23.0	22.7	21.7	21.0
72.5°	24.9	23.7	23.2	22.7	22.2	22.0	21.5	21.0	20.5	19.5	18.6
75°	20.8	20.3	20.0	19.5	19.3	18.8	18.1	17.3	17.1	16.3	15.6
77.5°	16.6	16.1	16.1	15.6	14.9	14.1	13.4	12.5	12.5	12.5	11.9
80°	11.7	11.2	10.5	10.3	9.8	9.3	8.5	8.1	7.6	7.6	7.6
82.5°	6.8	6.6	6.1	5.4	4.9	4.6	3.9	3.4	3.2	2.7	2.7
85°	1.5	1.5	1.0	1.0	0.7	0.7	0.7	0.5	0.5	0.3	0.3
87.5°	1.2	1.2	1.2	1.0	1.0	1.0	0.7	0.7	0.7	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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CATALOG NUMBER: ENT-FXX-LED-E1-SLR-7030-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	157.4	157.2	156.7	155.7	155.5	155.2	155.5	155.5	155.2	155.5	155.7
5°	156.0	155.7	155.0	154.5	154.0	154.0	155.5	155.5	154.8	155.0	156.0
7.5°	154.8	154.8	154.3	154.0	154.3	155.0	156.2	157.2	157.0	158.4	158.9
10°	153.3	153.6	153.8	154.8	156.2	157.4	159.4	161.1	161.6	162.8	163.6
12.5°	151.8	152.8	154.0	156.0	157.9	159.9	162.1	164.1	164.3	165.5	166.5
15°	148.2	149.6	151.4	153.6	156.5	158.7	161.8	163.3	163.8	164.5	165.8
17.5°	142.6	143.3	144.5	147.0	150.1	153.1	156.7	159.2	160.6	161.6	162.1
20°	135.0	136.5	137.2	139.4	141.1	143.3	148.2	151.4	154.3	155.7	157.2
22.5°	124.5	126.2	127.9	130.1	131.1	132.5	137.2	142.1	146.5	149.4	151.1
25°	111.3	113.3	115.7	118.4	119.6	121.1	126.5	131.3	136.7	141.8	144.3
27.5°	98.1	100.6	103.0	106.2	108.1	109.9	114.5	119.1	124.7	129.6	132.1
30°	85.4	88.9	91.0	94.7	96.4	98.1	102.3	107.4	111.3	116.9	120.1
32.5°	72.3	74.7	78.8	83.0	85.0	86.7	90.6	95.0	98.4	104.0	108.6
35°	60.3	62.5	66.9	71.0	72.3	75.0	78.8	82.8	85.9	91.0	95.4
37.5°	49.1	52.7	56.1	59.3	62.0	63.9	67.6	71.0	72.7	77.6	82.3
40°	43.7	45.4	47.9	50.8	52.5	54.4	57.1	60.1	62.0	65.4	69.3
42.5°	41.7	41.7	42.5	43.9	46.1	47.1	49.6	51.0	53.7	55.2	58.6
45°	40.3	39.8	40.0	40.0	40.8	41.5	43.4	44.9	46.6	47.9	50.1
47.5°	39.0	38.1	37.8	37.4	37.1	37.6	39.0	40.3	41.0	42.0	42.7
50°	36.4	35.6	34.9	34.4	34.2	34.7	35.9	36.9	37.1	37.6	38.1
52.5°	34.9	33.9	33.2	32.5	32.5	33.0	33.9	34.7	34.9	35.2	35.6
55°	33.0	32.5	32.0	31.2	31.0	31.7	32.5	33.2	33.7	33.7	34.2
57.5°	30.5	30.0	30.5	30.3	30.0	30.5	31.5	32.2	32.5	32.5	32.7
60°	28.1	27.8	27.8	28.3	28.8	29.5	30.3	31.2	31.0	30.5	30.8
62.5°	25.9	25.6	25.9	26.6	27.3	28.1	29.0	29.8	29.0	28.6	28.6
65°	24.4	24.2	24.4	24.7	24.9	25.6	26.8	27.1	26.6	26.6	26.6
67.5°	22.5	22.2	22.0	22.2	22.5	22.7	23.7	23.9	23.9	23.9	23.9
70°	20.0	19.8	19.5	19.5	19.5	19.8	20.0	20.5	21.0	21.5	21.7
72.5°	17.3	16.8	16.8	16.8	16.3	16.6	16.8	17.8	18.3	18.8	19.3
75°	14.6	14.1	14.1	13.7	13.9	14.1	14.1	14.6	15.1	15.9	16.3
77.5°	11.5	11.5	11.5	11.2	11.2	11.5	11.7	11.7	12.2	13.0	13.7
80°	7.3	7.3	7.8	8.1	8.3	8.5	9.0	9.3	9.5	10.3	10.5
82.5°	2.7	2.9	3.2	3.2	3.9	4.9	5.1	5.9	6.3	7.1	7.1
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.7	1.0	1.5	2.2	2.7
87.5°	0.5	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
100°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
102.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
105°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
107.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
110°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°
115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°
117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°
120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°
122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°
125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°
127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°
130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°
132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°
135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°
137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°
140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°
142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°
145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°
147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°
150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°
152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°
155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°
157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°
160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°
162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°
165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°
167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°
170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°
172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°
175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°
177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°
180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	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°



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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	
158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	112.5°	6.9
156.0	156.7	156.5	156.2	156.5	157.0	156.7	157.0	157.2	157.7	157.4	115°	8.1
156.2	157.0	157.2	157.2	157.7	158.4	158.4	158.7	158.9	159.4	159.4	117.5°	9.6
159.6	161.4	161.4	161.6	162.3	163.1	163.3	163.6	163.3	163.3	163.3	120°	11.3
164.8	166.7	167.0	168.2	169.2	168.9	168.9	169.2	168.7	168.2	167.4	122.5°	13.2
167.4	169.2	169.7	170.9	172.3	172.6	173.3	173.8	173.3	172.1	170.9	125°	15.5
166.7	168.2	169.2	170.6	172.3	173.3	174.8	175.3	175.0	173.6	172.1	127.5°	17.9
163.6	165.3	166.5	168.5	170.4	171.9	173.3	174.1	174.1	172.8	171.9	130°	20.4
158.4	160.4	162.1	164.3	166.7	168.5	170.1	170.6	170.6	170.1	170.9	132.5°	22.8
153.1	155.2	157.2	159.4	162.6	164.3	166.3	167.7	168.5	169.4	172.6	135°	25.2
146.2	147.2	149.6	152.1	156.5	159.4	163.6	167.4	171.4	175.8	182.1	137.5°	27.6
134.3	136.0	138.9	142.3	146.7	152.1	159.6	167.2	174.3	180.9	188.7	140°	29.9
124.3	127.4	130.6	134.5	139.2	144.3	153.1	162.8	171.4	179.2	187.7	142.5°	32.1
113.5	117.4	121.6	126.7	131.1	135.7	143.0	153.8	164.1	172.8	181.9	145°	34.0
101.1	105.2	109.4	114.7	119.4	125.2	131.8	142.3	154.0	164.1	174.8	147.5°	35.6
87.6	91.3	95.9	100.8	106.2	113.0	120.1	129.9	142.1	152.8	165.0	150°	37.3
75.0	78.8	83.5	88.9	94.2	101.6	109.6	118.9	130.1	141.6	154.5	152.5°	38.8
63.0	68.1	73.0	78.4	84.0	90.8	99.4	109.4	120.6	132.8	146.5	155°	40.0
53.0	56.9	62.0	66.4	72.5	79.1	87.9	99.1	112.1	125.0	139.4	157.5°	41.1
44.2	46.6	51.0	56.4	62.0	68.8	76.1	87.4	100.6	114.7	130.8	160°	42.2
38.8	40.0	43.2	48.1	53.5	60.3	66.6	76.4	89.6	103.5	120.1	162.5°	43.2
36.1	36.6	38.3	42.0	47.1	53.2	60.1	68.3	80.1	93.7	109.6	165°	44.0
34.7	34.9	35.4	38.1	42.5	48.1	54.9	61.5	72.0	85.0	100.3	167.5°	44.4
33.0	33.2	33.4	34.9	38.1	43.0	48.8	54.2	63.7	75.2	89.8	170°	44.5
31.2	31.7	32.2	32.7	34.9	38.1	42.5	47.1	53.7	63.7	75.7	172.5°	44.9
29.0	29.5	30.3	30.8	31.5	33.4	36.1	39.0	42.5	49.6	59.3	175°	45.5
27.1	27.6	27.8	28.1	28.6	29.0	30.0	30.8	32.5	36.6	43.4	177.5°	45.7
24.4	24.9	24.9	25.2	25.4	25.4	25.9	26.1	26.6	27.8	30.8	180°	45.6
22.2	22.5	22.7	23.0	23.0	23.0	22.7	23.0	22.7	22.7	23.9		
19.5	19.8	20.0	20.3	20.5	20.8	21.0	21.0	20.8	20.3	20.3		
16.6	16.6	17.1	17.3	17.6	18.3	18.8	18.3	18.3	18.1	18.1		
13.9	14.4	14.6	14.6	15.1	15.9	16.3	16.1	15.4	15.4	15.6		
10.7	11.0	11.2	11.5	11.7	12.5	13.2	13.4	13.0	13.2	13.2		
7.1	7.3	7.8	8.1	8.3	9.0	9.8	10.5	10.3	10.7	10.3		
3.2	3.7	3.9	3.9	4.6	5.4	6.3	7.1	8.1	8.3	7.6		
0.0	0.3	0.3	0.3	1.0	1.7	3.2	4.9	6.6	5.1	3.9		
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		
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6		
2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8		
3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8		
4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8		
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8		

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REPORT NUMBER: P173677  
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**TION (continued):**

**CANDELA DISTRIBUTION (con**

170°	175°	180°	185°	190°	195°	200°	205°	210°	215°		220°	225°
6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°	158.4	158.4
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	157.4	157.7
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	159.6	159.6
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	162.8	162.8
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	167.0	166.3
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	169.4	168.2
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	170.9	169.7
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	171.4	171.4
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	172.6	174.5
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	176.7	181.6
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	188.9	195.8
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	198.5	207.5
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	199.2	210.4
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	194.8	207.0
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	188.2	202.1
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	180.1	195.8
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	170.9	187.0
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	162.3	178.9
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	156.2	173.8
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	149.6	168.5
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	139.2	161.4
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	127.9	150.1
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	117.7	138.9
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	106.7	128.1
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	92.3	113.8
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	73.7	94.0
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	53.0	70.1
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	35.9	47.6
										70°	26.1	32.5
										72.5°	21.2	24.4
										75°	18.8	20.5
										77.5°	16.6	17.6
										80°	13.2	14.1
										82.5°	10.3	11.2
										85°	7.6	8.3
										87.5°	3.4	3.4
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	0.2	0.2
										97.5°	0.5	0.5
										100°	1.6	1.6
										102.5°	2.8	2.8
										105°	3.8	3.8
										107.5°	4.8	4.8
										110°	5.8	5.8

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.ED-E1-SLR-7030-ULG-CWB

**tinued):**

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	112.5°	6.9	6.9	6.9
157.9	158.2	158.2	158.7	158.9	159.4	159.6	159.6	159.6	115°	8.1	8.1	8.1
160.1	160.4	160.6	161.4	161.6	162.3	163.1	163.3	164.1	117.5°	9.6	9.6	9.6
162.8	163.6	163.8	164.3	164.8	166.0	167.0	167.4	168.2	120°	11.3	11.3	11.3
166.0	166.3	166.3	166.7	167.9	168.7	169.9	172.1	173.6	122.5°	13.2	13.2	13.2
168.2	167.4	167.9	168.5	169.7	171.4	173.3	176.5	179.4	125°	15.5	15.5	15.5
169.7	169.7	170.9	171.9	174.1	176.7	180.4	184.8	189.2	127.5°	17.9	17.9	17.9
172.3	173.1	175.8	177.7	181.6	185.5	190.2	196.3	202.9	130°	20.4	20.4	20.4
177.2	179.2	182.1	185.3	189.2	195.0	202.9	210.7	219.4	132.5°	22.8	22.8	22.8
185.0	189.4	194.3	198.2	202.9	211.2	219.7	229.5	240.5	135°	25.2	25.2	25.2
202.1	207.0	214.3	220.9	227.5	239.5	250.5	261.7	276.6	137.5°	27.6	27.6	27.6
217.0	224.8	236.3	245.8	254.9	269.3	281.5	300.0	315.9	140°	29.9	29.9	29.9
223.4	236.1	250.5	264.1	281.0	295.1	313.2	335.4	356.2	142.5°	32.1	32.1	32.1
221.9	237.3	255.4	273.9	293.9	316.6	337.4	362.3	389.4	145°	34.0	34.0	34.0
218.5	235.8	256.8	279.0	302.9	331.3	357.4	388.4	422.1	147.5°	35.6	35.6	35.6
214.3	234.6	258.0	284.1	314.2	347.9	381.6	422.1	464.0	150°	37.3	37.3	37.3
208.0	231.2	259.5	292.0	328.8	368.4	412.5	460.9	506.0	152.5°	38.8	38.8	38.8
200.9	227.0	261.2	302.7	349.1	398.2	449.2	498.5	550.0	155°	40.0	40.0	40.0
196.3	225.8	265.6	315.2	369.1	426.0	482.9	536.8	593.0	157.5°	41.1	41.1	41.1
193.6	226.5	270.2	324.4	384.0	446.7	507.0	569.0	627.9	160°	42.2	42.2	42.2
191.1	228.5	274.4	330.3	393.5	460.2	526.1	593.0	658.1	162.5°	43.2	43.2	43.2
184.8	227.8	275.8	332.0	398.4	468.9	539.3	609.8	679.1	165°	44.0	44.0	44.0
173.8	220.9	272.7	330.3	399.8	474.1	547.8	622.2	691.1	167.5°	44.4	44.4	44.4
159.2	207.0	261.4	323.0	394.7	471.6	550.7	630.3	697.9	170°	44.5	44.5	44.5
142.8	185.3	241.7	306.1	378.1	456.7	537.8	622.7	690.1	172.5°	44.9	44.9	44.9
120.3	158.2	214.8	277.6	347.9	426.0	499.5	592.2	660.8	175°	45.5	45.5	45.5
92.0	125.7	174.5	238.5	310.0	378.4	445.0	537.8	614.0	177.5°	45.7	45.7	45.7
63.5	89.6	130.6	186.5	253.4	316.4	382.8	469.4	558.3	180°	45.6	45.6	45.6
41.2	58.1	86.4	129.4	182.3	240.5	295.6	374.9	470.2				
29.3	37.1	52.7	79.8	120.1	165.0	210.2	263.9	354.7				
23.2	27.1	32.5	46.4	70.3	102.8	139.2	173.1	249.0				
18.8	20.5	23.2	28.6	41.5	59.3	82.0	109.1	154.8				
15.1	16.3	18.1	20.3	25.6	34.2	47.6	60.1	88.4				
12.2	13.7	14.1	14.4	16.6	19.5	25.2	33.9	50.5				
8.8	9.3	9.3	9.5	10.0	10.7	14.4	24.9	36.9				
3.4	2.9	3.2	2.4	2.7	2.9	4.6	5.4	8.5				
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				
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6				
2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8				
3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8				
4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8				
5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8				



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3-7030-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	0°	158.4	158.4	158.4	158.4
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	160.4	160.4	160.1	160.1
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	164.5	165.3	164.8	165.5
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	169.9	170.4	170.9	171.9
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	175.5	177.2	178.9	179.7
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	182.1	185.3	188.7	190.4
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	193.6	198.5	202.4	205.1
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	208.7	215.3	221.9	226.5
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	228.0	237.5	246.8	252.7
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	252.4	263.6	273.9	285.1
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	286.1	301.7	319.8	329.6
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	334.2	355.4	368.1	389.8
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	380.1	406.2	436.9	467.0
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	418.9	457.2	502.4	548.0
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	459.7	508.2	560.5	619.1
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	508.5	558.8	615.2	679.4
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	552.9	610.3	679.4	738.7
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	602.0	663.0	740.9	809.5
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	649.6	713.3	798.5	873.7
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	691.3	755.3	846.1	924.5
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	724.8	796.1	884.7	959.9
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	750.9	826.3	914.0	984.3
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	764.6	840.7	923.0	994.5
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	766.5	839.7	915.4	985.2
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	748.0	812.9	885.2	958.1
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	706.5	757.2	825.9	898.1
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	653.3	686.4	732.1	802.9
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	601.0	623.0	646.9	699.1
								70°	520.7	539.0	562.9	595.4
								72.5°	405.0	429.1	446.2	477.7
								75°	304.4	318.3	343.0	372.0
								77.5°	214.1	228.3	256.3	289.5
								80°	143.8	153.6	170.9	199.4
								82.5°	88.1	99.4	114.0	138.7
								85°	59.1	76.7	95.4	114.0
								87.5°	24.9	42.0	53.2	55.9
								90°	0.0	0.0	0.0	0.0
								92.5°	0.0	0.0	0.0	0.0
								95°	0.2	0.2	0.2	0.2
								97.5°	0.5	0.5	0.5	0.5
								100°	1.6	1.6	1.6	1.6
								102.5°	2.8	2.8	2.8	2.8
								105°	3.8	3.8	3.8	3.8
								107.5°	4.8	4.8	4.8	4.8
								110°	5.8	5.8	5.8	5.8





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G-CWB

**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
158.4	158.4	158.4	158.4	158.4	158.4	158.4	112.5°	6.9	6.9	6.9	6.9	6.9
160.9	160.6	161.1	161.1	160.9	160.9	161.6	115°	8.1	8.1	8.1	8.1	8.1
166.0	166.3	166.7	166.3	167.2	166.0	166.3	117.5°	9.6	9.6	9.6	9.6	9.6
173.1	173.3	174.1	173.8	174.5	173.8	172.8	120°	11.3	11.3	11.3	11.3	11.3
182.1	182.6	182.6	183.8	185.0	183.6	181.9	122.5°	13.2	13.2	13.2	13.2	13.2
192.6	194.3	193.6	196.0	197.2	196.3	195.0	125°	15.5	15.5	15.5	15.5	15.5
207.0	210.4	209.9	214.6	216.3	215.6	215.8	127.5°	17.9	17.9	17.9	17.9	17.9
228.5	233.4	234.1	241.4	246.1	245.3	244.1	130°	20.4	20.4	20.4	20.4	20.4
253.4	266.1	269.0	275.4	280.5	282.5	282.2	132.5°	22.8	22.8	22.8	22.8	22.8
295.6	304.9	311.5	323.0	327.6	332.0	330.8	135°	25.2	25.2	25.2	25.2	25.2
343.7	352.3	366.9	381.6	386.2	390.3	395.7	137.5°	27.6	27.6	27.6	27.6	27.6
405.2	417.7	440.9	460.6	471.9	468.5	466.7	140°	29.9	29.9	29.9	29.9	29.9
488.5	519.7	536.8	552.9	560.2	549.5	535.8	142.5°	32.1	32.1	32.1	32.1	32.1
588.1	624.7	635.4	643.3	629.3	614.7	574.6	145°	34.0	34.0	34.0	34.0	34.0
661.1	697.0	719.2	727.5	697.7	654.2	600.0	147.5°	35.6	35.6	35.6	35.6	35.6
727.0	763.3	773.1	776.8	736.8	680.6	627.9	150°	37.3	37.3	37.3	37.3	37.3
797.0	827.5	833.2	831.2	778.0	711.6	662.3	152.5°	38.8	38.8	38.8	38.8	38.8
860.8	892.0	886.9	878.3	817.8	750.6	696.2	155°	40.0	40.0	40.0	40.0	40.0
921.3	944.2	935.0	913.7	855.4	780.7	722.8	157.5°	41.1	41.1	41.1	41.1	41.1
961.8	981.1	971.1	944.2	881.2	801.0	737.5	160°	42.2	42.2	42.2	42.2	42.2
992.6	1007.2	1001.4	962.5	896.4	813.4	744.1	162.5°	43.2	43.2	43.2	43.2	43.2
1007.9	1022.3	1018.9	966.0	898.3	815.3	740.9	165°	44.0	44.0	44.0	44.0	44.0
1013.6	1029.9	1018.0	953.3	885.4	808.0	729.9	167.5°	44.4	44.4	44.4	44.4	44.4
1008.9	1016.5	998.9	929.1	859.0	785.3	714.3	170°	44.5	44.5	44.5	44.5	44.5
991.8	986.5	962.3	887.1	821.7	753.8	697.0	172.5°	44.9	44.9	44.9	44.9	44.9
944.0	930.1	910.5	838.5	771.9	704.0	670.1	175°	45.5	45.5	45.5	45.5	45.5
845.4	841.5	832.4	779.0	712.8	648.1	626.4	177.5°	45.7	45.7	45.7	45.7	45.7
718.9	715.0	716.2	680.1	632.2	569.3	569.8	180°	45.6	45.6	45.6	45.6	45.6
616.4	594.9	569.5	530.7	502.9	494.3	521.9						
496.0	484.3	463.6	429.6	398.2	409.1	470.9						
383.5	376.4	391.6	395.5	383.3	375.9	396.9						
314.2	329.6	353.7	384.5	387.4	376.7	336.9						
239.2	279.3	312.7	354.2	349.8	326.6	283.2						
167.4	206.3	237.8	272.7	271.4	250.2	228.7						
128.1	140.4	152.3	188.9	203.1	186.7	163.3						
60.5	61.0	73.5	90.6	97.2	110.8	109.4						
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						
0.2	0.2	0.2	0.2	0.2	0.2	0.2						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.6	1.6	1.6	1.6	1.6	1.6	1.6						
2.8	2.8	2.8	2.8	2.8	2.8	2.8						
3.8	3.8	3.8	3.8	3.8	3.8	3.8						
4.8	4.8	4.8	4.8	4.8	4.8	4.8						
5.8	5.8	5.8	5.8	5.8	5.8	5.8						



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CATALOG NUMBER: ENT-FXX-LED-E1-SLR-7030-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
6.9	6.9	6.9	6.9	6.9	6.9	0°	158.4	158.4	158.4	158.4	158.4	158.4
8.1	8.1	8.1	8.1	8.1	8.1	2.5°	161.8	161.6	161.6	161.6	161.8	161.6
9.6	9.6	9.6	9.6	9.6	9.6	5°	166.7	166.3	166.0	166.0	165.8	165.8
11.3	11.3	11.3	11.3	11.3	11.3	7.5°	173.1	172.1	172.1	171.4	171.1	170.4
13.2	13.2	13.2	13.2	13.2	13.2	10°	181.6	180.7	180.4	178.5	178.5	176.7
15.5	15.5	15.5	15.5	15.5	15.5	12.5°	194.1	194.1	194.1	191.6	191.1	188.2
17.9	17.9	17.9	17.9	17.9	17.9	15°	215.6	213.6	215.3	211.2	210.9	207.0
20.4	20.4	20.4	20.4	20.4	20.4	17.5°	244.6	244.6	241.2	239.2	238.0	232.4
22.8	22.8	22.8	22.8	22.8	22.8	20°	283.2	283.4	277.6	272.2	269.8	263.4
25.2	25.2	25.2	25.2	25.2	25.2	22.5°	332.2	327.6	320.3	316.4	312.5	302.0
27.6	27.6	27.6	27.6	27.6	27.6	25°	396.7	394.7	381.8	367.6	361.8	345.9
29.9	29.9	29.9	29.9	29.9	29.9	27.5°	459.9	455.8	435.0	410.9	396.0	374.2
32.1	32.1	32.1	32.1	32.1	32.1	30°	515.6	488.2	463.6	434.5	411.8	384.7
34.0	34.0	34.0	34.0	34.0	34.0	32.5°	544.6	510.2	474.3	450.4	421.8	391.8
35.6	35.6	35.6	35.6	35.6	35.6	35°	567.1	530.2	494.6	463.6	431.3	397.4
37.3	37.3	37.3	37.3	37.3	37.3	37.5°	595.6	556.8	517.5	480.7	441.4	401.6
38.8	38.8	38.8	38.8	38.8	38.8	40°	627.4	582.9	534.4	489.7	445.5	400.1
40.0	40.0	40.0	40.0	40.0	40.0	42.5°	653.7	600.0	542.9	492.6	444.0	394.0
41.1	41.1	41.1	41.1	41.1	41.1	45°	668.4	607.1	543.6	489.5	438.2	386.4
42.2	42.2	42.2	42.2	42.2	42.2	47.5°	675.2	607.3	538.8	482.4	430.4	375.7
43.2	43.2	43.2	43.2	43.2	43.2	50°	674.5	601.3	529.5	472.9	421.6	364.5
44.0	44.0	44.0	44.0	44.0	44.0	52.5°	667.2	591.3	518.7	465.3	414.0	354.9
44.4	44.4	44.4	44.4	44.4	44.4	55°	655.9	580.5	508.0	460.2	407.7	347.1
44.5	44.5	44.5	44.5	44.5	44.5	57.5°	643.3	571.2	500.2	459.2	404.0	345.7
44.9	44.9	44.9	44.9	44.9	44.9	60°	637.6	572.2	505.1	452.3	402.0	348.9
45.5	45.5	45.5	45.5	45.5	45.5	62.5°	634.0	581.5	515.1	457.0	405.2	362.3
45.7	45.7	45.7	45.7	45.7	45.7	65°	619.1	594.4	530.5	473.6	428.2	393.8
45.6	45.6	45.6	45.6	45.6	45.6	67.5°	601.3	598.1	536.6	483.3	454.3	434.8
						70°	582.7	594.2	545.3	509.0	492.9	485.1
						72.5°	552.9	566.1	520.7	499.0	494.1	488.5
						75°	461.1	463.6	428.9	416.9	425.5	412.3
						77.5°	331.5	337.8	315.4	318.6	346.4	317.8
						80°	245.6	220.7	206.5	216.0	242.7	201.9
						82.5°	202.4	163.8	138.9	151.8	162.1	119.1
						85°	155.7	125.0	102.8	83.0	79.1	51.0
						87.5°	122.3	90.3	50.3	28.3	19.0	1.2
						90°	0.0	0.0	0.0	0.0	0.0	0.0
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	0.2	0.2	0.2	0.2	0.2	0.2
						97.5°	0.5	0.5	0.5	0.5	0.5	0.5
						100°	1.6	1.6	1.6	1.6	1.6	1.6
						102.5°	2.8	2.8	2.8	2.8	2.8	2.8
						105°	3.8	3.8	3.8	3.8	3.8	3.8
						107.5°	4.8	4.8	4.8	4.8	4.8	4.8
						110°	5.8	5.8	5.8	5.8	5.8	5.8



REPORT NUMBER: P173677

CATALOG NUMBER: ENT-FXX-LED-E1-SLR-7030-ULG-CWB

**CANDELA DISTRIBUTION (continued):**

360°		330°	335°	340°	345°	350°	355°	360°
158.4	112.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
161.8	115°	8.1	8.1	8.1	8.1	8.1	8.1	8.1
165.8	117.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6
170.4	120°	11.3	11.3	11.3	11.3	11.3	11.3	11.3
177.5	122.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2
187.7	125°	15.5	15.5	15.5	15.5	15.5	15.5	15.5
206.0	127.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9
229.7	130°	20.4	20.4	20.4	20.4	20.4	20.4	20.4
258.8	132.5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8
291.5	135°	25.2	25.2	25.2	25.2	25.2	25.2	25.2
328.8	137.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6
351.8	140°	29.9	29.9	29.9	29.9	29.9	29.9	29.9
356.7	142.5°	32.1	32.1	32.1	32.1	32.1	32.1	32.1
360.1	145°	34.0	34.0	34.0	34.0	34.0	34.0	34.0
361.1	147.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6
359.6	150°	37.3	37.3	37.3	37.3	37.3	37.3	37.3
353.7	152.5°	38.8	38.8	38.8	38.8	38.8	38.8	38.8
346.2	155°	40.0	40.0	40.0	40.0	40.0	40.0	40.0
336.6	157.5°	41.1	41.1	41.1	41.1	41.1	41.1	41.1
324.9	160°	42.2	42.2	42.2	42.2	42.2	42.2	42.2
313.9	162.5°	43.2	43.2	43.2	43.2	43.2	43.2	43.2
305.4	165°	44.0	44.0	44.0	44.0	44.0	44.0	44.0
300.0	167.5°	44.4	44.4	44.4	44.4	44.4	44.4	44.4
300.7	170°	44.5	44.5	44.5	44.5	44.5	44.5	44.5
308.3	172.5°	44.9	44.9	44.9	44.9	44.9	44.9	44.9
327.4	175°	45.5	45.5	45.5	45.5	45.5	45.5	45.5
363.5	177.5°	45.7	45.7	45.7	45.7	45.7	45.7	45.7
398.9	180°	45.6	45.6	45.6	45.6	45.6	45.6	45.6
433.1								
410.6								
313.4								
225.6								
130.8								
81.8								
35.4								
1.2								
0.0								
0.0								
0.2								
0.5								
1.6								
2.8								
3.8								
4.8								
5.8								

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Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(REPORT)