

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: P173440

Luminaire Tested: **ENC-FXX-LED-E1-SLR-7050-ULG-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173440  
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: ENC-FXX-LED-E1-SLR-7050-ULG-BBB  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1437.5 lumens  
Efficiency: N/A  
Efficacy: 261.4 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

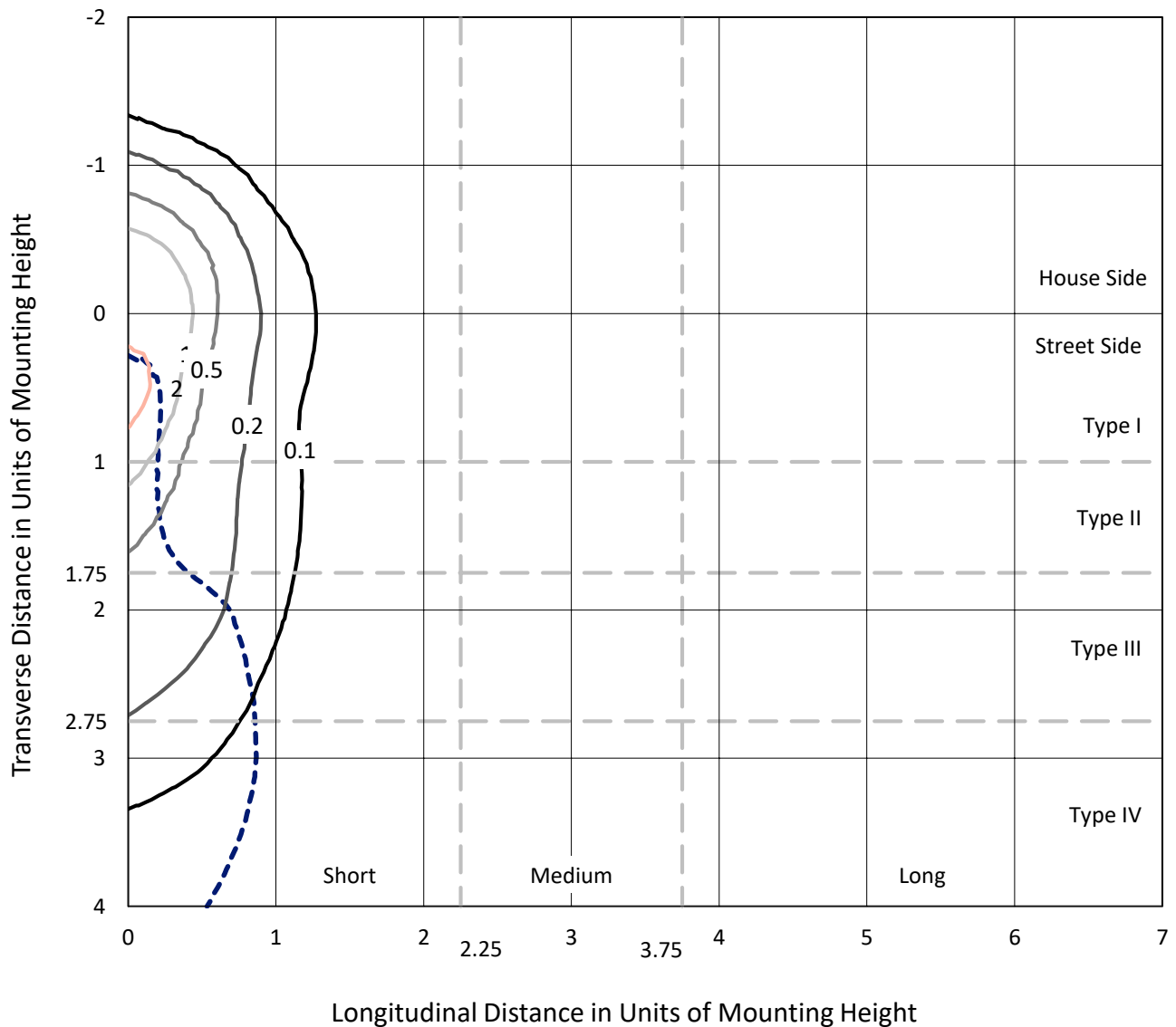


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### Iso-Footcandle Lines of Horizontal Illumination

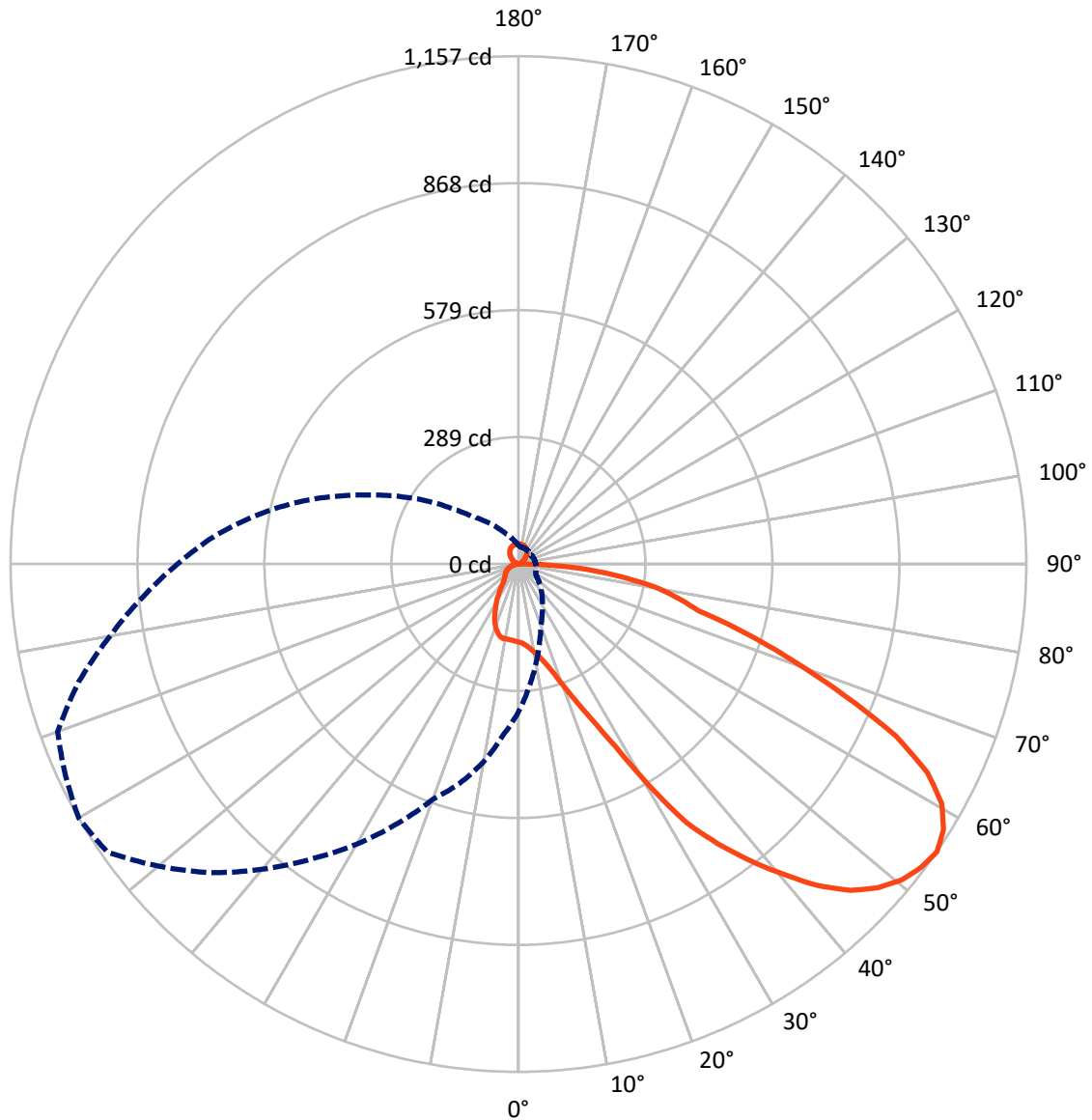
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.8 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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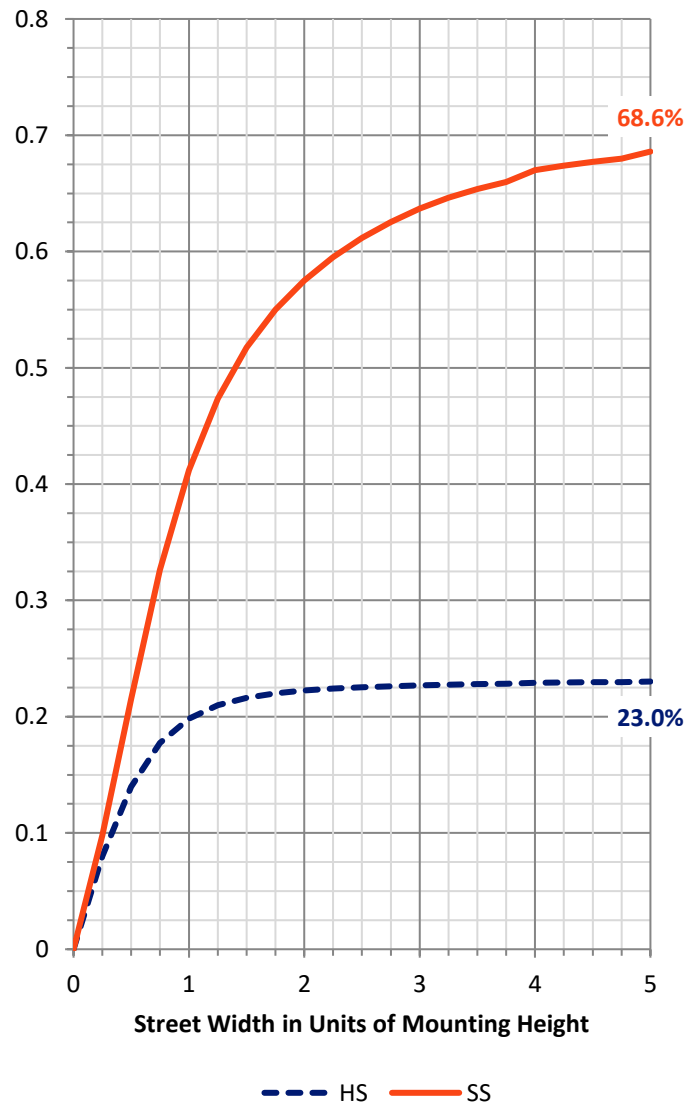
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	333.8	51.1	384.9
	% Fixture	23.2	3.6	26.8
<b>Street Side</b>	Lumens	1001.6	51.1	1052.7
	% Fixture	69.7	3.6	73.2
<b>Total</b>	Lumens	1335.4	102.1	1437.5
	% Fixture	92.9	7.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.5	1.2
10°-20°	57.6	4.0
20°-30°	111.8	7.8
30°-40°	175.7	12.2
40°-50°	234.9	16.3
50°-60°	275.6	19.2
60°-70°	261.5	18.2
70°-80°	157.8	11.0
80°-90°	42.8	3.0
90°-100°	0.4	0.0
100°-110°	4.0	0.3
110°-120°	8.2	0.6
120°-130°	13.9	1.0
130°-140°	19.4	1.3
140°-150°	21.2	1.5
150°-160°	18.4	1.3
160°-170°	12.4	0.9
170°-180°	4.3	0.3
0°-90°	1335.4	92.9
0°-180°	1437.5	100.0



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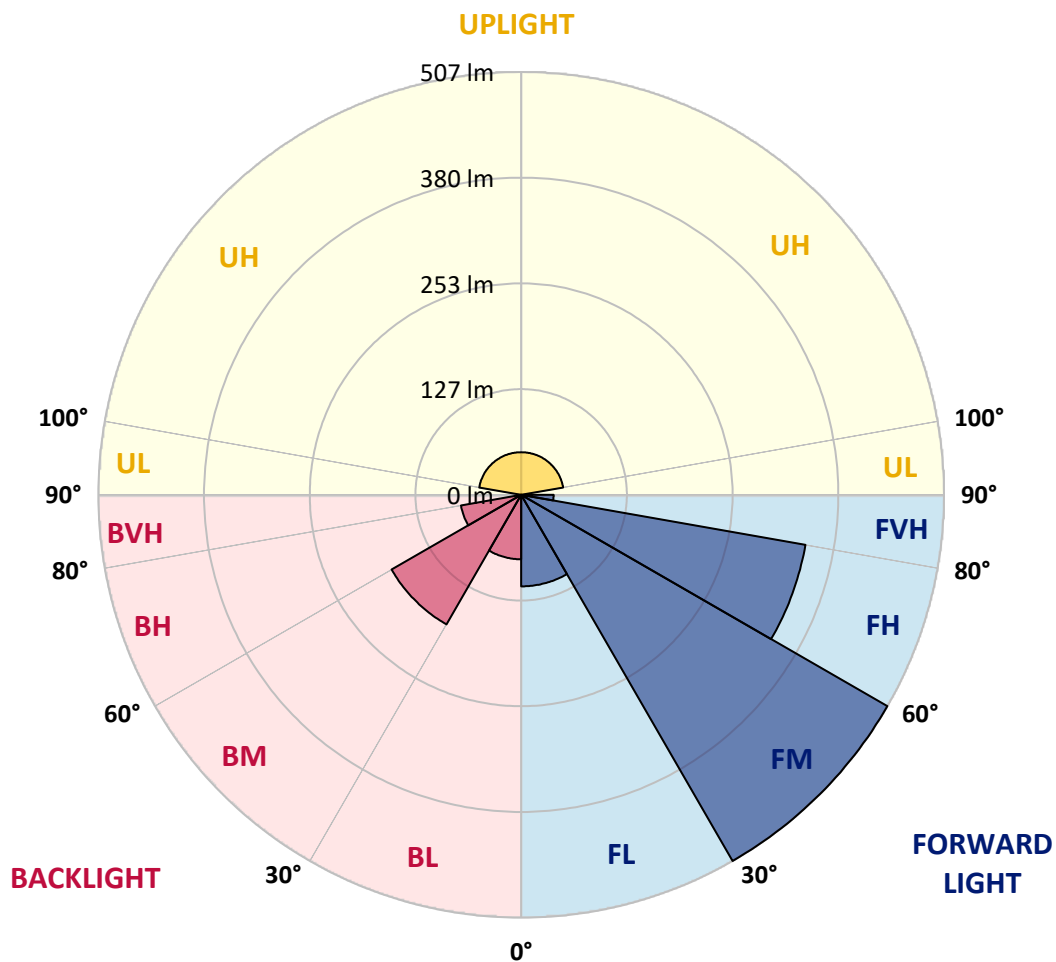
CATALOG NUMBER: ENC-FXX-LED-E1-SLR-7050-ULG-BBB

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.7	7.6			
FM	(30°-60°)	506.9	35.3			
FH	(60°-80°)	346.0	24.1			G0/660
FVH	(80°-90°)	38.9	2.7			G1/100
BL	(0°-30°)	77.2	5.4	B0/110		
BM	(30°-60°)	179.4	12.5	B0/220		
BH	(60°-80°)	73.3	5.1	B0/110		G0/110
BVH	(80°-90°)	3.9	0.3			G0/10
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	51.1	3.6		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°	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0
2.5°	181.8	183.2	181.6	181.8	181.3	180.7	181.0	180.7	180.2	180.2	179.6
5°	186.2	186.5	185.4	185.1	184.6	183.7	184.0	183.2	182.7	182.1	181.0
7.5°	191.4	191.1	189.8	188.9	188.7	187.3	187.0	185.9	185.1	184.3	182.9
10°	199.4	197.2	195.6	194.2	193.6	192.0	190.6	190.0	188.7	186.8	185.7
12.5°	210.9	209.5	206.2	203.5	201.8	199.7	197.7	196.4	194.2	191.4	190.0
15°	231.5	227.1	223.2	219.1	215.8	212.3	207.6	204.0	200.2	195.6	192.0
17.5°	258.1	252.6	246.5	240.0	233.1	225.4	216.4	209.5	201.8	193.9	188.4
20°	290.7	280.6	272.1	259.4	246.8	234.8	220.5	208.4	197.5	187.0	179.1
22.5°	327.5	312.1	294.8	275.6	255.3	236.7	216.7	200.2	184.3	171.4	162.4
25°	369.4	345.3	318.9	289.9	260.8	233.1	208.4	187.8	170.8	155.5	145.4
27.5°	395.2	362.3	330.8	296.2	263.0	230.9	200.8	176.9	157.4	141.0	129.2
30°	400.7	367.5	330.5	292.9	258.6	223.5	190.6	164.0	142.3	125.1	113.3
32.5°	404.5	366.1	325.0	283.3	246.0	209.0	175.5	149.2	126.2	109.1	95.4
35°	405.6	360.9	314.6	268.2	229.0	191.1	157.7	130.0	110.0	93.2	80.9
37.5°	404.0	352.4	300.6	252.6	210.6	171.1	138.2	114.1	97.1	80.9	69.9
40°	397.4	341.7	288.0	237.5	192.0	151.1	121.8	100.9	86.4	74.0	65.6
42.5°	388.9	329.4	274.0	220.0	173.9	135.2	108.6	91.9	79.5	70.7	63.6
45°	378.2	316.5	259.4	204.3	158.5	123.1	100.9	86.9	77.3	69.7	63.1
47.5°	365.0	302.8	245.4	192.5	148.1	117.1	99.3	86.9	77.3	69.1	62.0
50°	352.7	290.4	234.8	185.1	143.4	117.4	100.9	88.0	77.1	68.0	60.1
52.5°	343.1	283.0	230.4	182.4	144.0	120.1	104.2	89.7	77.9	68.0	59.5
55°	337.1	280.0	229.8	184.8	149.7	127.5	109.4	94.6	81.7	70.2	60.3
57.5°	337.9	283.3	236.4	195.0	162.9	140.4	119.9	103.4	87.2	72.9	60.6
60°	346.4	294.3	252.3	218.9	184.8	157.7	133.0	111.1	89.7	72.1	58.7
62.5°	367.8	320.0	285.8	251.5	212.0	174.7	141.0	112.4	86.9	68.0	54.0
65°	408.4	366.4	333.5	290.7	234.5	181.8	140.2	108.3	81.7	61.4	47.7
67.5°	448.1	403.7	357.3	292.9	229.0	176.6	131.1	98.2	72.4	52.6	42.2
70°	486.5	428.9	369.4	290.2	213.1	151.9	109.4	82.0	57.6	43.9	36.2
72.5°	461.3	394.9	334.0	255.9	183.2	124.8	87.2	59.5	44.2	36.2	31.3
75°	352.1	306.1	253.1	196.4	135.2	88.0	58.1	42.2	34.0	28.5	25.5
77.5°	253.4	219.1	175.8	128.9	84.5	55.7	39.5	30.2	25.2	21.4	19.7
80°	147.0	126.2	98.5	71.0	48.3	34.8	26.3	21.4	18.4	15.6	15.1
82.5°	91.9	73.5	52.1	35.1	24.7	19.2	15.3	13.2	11.0	9.6	8.2
85°	39.8	28.5	16.2	9.1	6.9	5.2	4.1	3.6	3.0	2.8	2.2
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7	1.7	1.7	1.4
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°	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0
2.5°	179.6	179.1	178.8	178.8	178.3	178.3	177.7	178.0	177.7	177.2	176.9
5°	180.7	179.9	179.4	178.8	178.0	177.7	177.2	177.2	176.4	175.5	175.3
7.5°	182.1	181.0	180.2	179.1	178.0	177.5	176.4	175.8	175.0	174.2	173.9
10°	184.8	182.9	181.6	180.2	178.3	177.2	175.5	174.7	173.9	172.8	172.2
12.5°	187.8	185.4	183.5	180.2	178.3	176.4	174.7	173.1	171.4	170.3	170.0
15°	187.8	184.8	180.7	177.7	175.0	172.2	170.6	168.9	167.0	166.2	165.9
17.5°	183.2	178.0	174.2	170.8	168.4	166.2	164.5	163.7	162.1	160.4	159.9
20°	172.5	166.5	162.1	158.5	155.8	153.6	153.0	152.2	151.4	151.4	151.7
22.5°	155.0	148.4	144.5	140.7	137.7	136.6	136.9	137.7	138.0	137.7	139.6
25°	137.4	131.1	125.9	122.3	118.8	119.6	118.5	120.4	121.2	121.5	123.7
27.5°	120.4	113.5	108.0	105.0	103.4	102.3	101.5	103.9	104.5	106.4	108.3
30°	102.3	96.0	89.7	87.2	85.8	85.0	85.3	87.5	88.9	91.6	93.2
32.5°	85.6	77.9	73.2	69.9	68.6	68.3	68.6	70.2	71.8	75.4	77.9
35°	71.3	63.9	60.1	58.1	56.2	55.4	56.2	56.8	57.3	60.3	63.4
37.5°	63.1	57.9	54.8	52.9	51.6	50.7	50.7	50.5	50.7	51.3	52.6
40°	59.5	55.7	52.9	51.0	49.9	49.4	49.1	48.8	48.5	48.5	48.5
42.5°	58.1	53.7	51.0	49.4	48.8	48.8	48.8	48.5	48.0	47.4	47.2
45°	57.0	52.4	49.4	48.0	48.0	48.0	48.3	48.0	47.4	46.6	45.8
47.5°	55.1	50.5	47.7	46.6	46.6	46.6	46.9	46.6	46.1	45.5	44.7
50°	52.9	48.0	45.3	44.4	44.2	44.2	43.9	43.6	43.3	42.8	42.0
52.5°	51.6	46.4	43.9	43.3	42.8	42.5	42.0	41.7	41.2	40.9	40.0
55°	51.3	45.3	43.1	42.5	42.0	41.2	40.0	39.5	38.4	38.1	37.6
57.5°	50.5	44.2	41.7	40.3	38.9	38.1	37.0	36.5	35.9	35.4	34.8
60°	47.7	40.9	37.8	37.0	36.2	35.9	35.4	34.8	34.0	33.2	32.1
62.5°	42.5	36.7	34.8	34.5	34.3	33.7	33.2	32.4	31.8	30.7	29.6
65°	38.4	34.5	33.4	32.9	32.6	31.8	31.3	30.7	29.9	29.1	28.0
67.5°	34.8	32.1	31.5	30.7	30.4	29.9	29.1	28.5	27.7	26.9	25.8
70°	31.5	29.3	29.1	28.5	28.0	27.7	26.6	25.8	25.5	24.4	23.6
72.5°	28.0	26.6	26.1	25.5	25.0	24.7	24.1	23.6	23.1	22.0	20.9
75°	23.3	22.8	22.5	22.0	21.7	21.1	20.3	19.5	19.2	18.4	17.5
77.5°	18.6	18.1	18.1	17.5	16.7	15.9	15.1	14.0	14.0	14.0	13.4
80°	13.2	12.6	11.8	11.5	11.0	10.4	9.6	9.1	8.5	8.5	8.5
82.5°	7.7	7.4	6.9	6.0	5.5	5.2	4.4	3.9	3.6	3.0	3.0
85°	1.7	1.7	1.1	1.1	0.8	0.8	0.8	0.6	0.6	0.3	0.3
87.5°	1.4	1.4	1.4	1.1	1.1	1.1	0.8	0.8	0.8	0.6	0.6
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



REPORT NUMBER: P173440

CATALOG NUMBER: ENC-FXX-LED-E1-SLR-7050-ULG-BBB

**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°	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0
2.5°	176.9	176.6	176.1	175.0	174.7	174.4	174.7	174.7	174.4	174.7	175.0
5°	175.3	175.0	174.2	173.6	173.1	173.1	174.7	174.7	173.9	174.2	175.3
7.5°	173.9	173.9	173.3	173.1	173.3	174.2	175.5	176.6	176.4	178.0	178.5
10°	172.2	172.5	172.8	173.9	175.5	176.9	179.1	181.0	181.6	182.9	183.7
12.5°	170.6	171.7	173.1	175.3	177.5	179.6	182.1	184.3	184.6	185.9	187.0
15°	166.5	168.1	170.0	172.5	175.8	178.3	181.8	183.5	184.0	184.8	186.2
17.5°	160.2	161.0	162.4	165.1	168.7	172.0	176.1	178.8	180.5	181.6	182.1
20°	151.7	153.3	154.1	156.6	158.5	161.0	166.5	170.0	173.3	175.0	176.6
22.5°	139.9	141.8	143.7	146.2	147.3	148.9	154.1	159.6	164.5	167.8	169.7
25°	125.1	127.2	130.0	133.0	134.4	136.0	142.1	147.5	153.6	159.4	162.1
27.5°	110.2	113.0	115.7	119.3	121.5	123.4	128.6	133.8	140.2	145.6	148.4
30°	96.0	99.8	102.3	106.4	108.3	110.2	114.9	120.7	125.1	131.4	134.9
32.5°	81.2	83.9	88.6	93.2	95.4	97.4	101.8	106.7	110.5	116.8	122.0
35°	67.7	70.2	75.1	79.8	81.2	84.2	88.6	93.0	96.5	102.3	107.2
37.5°	55.1	59.2	63.1	66.6	69.7	71.8	76.0	79.8	81.7	87.2	92.4
40°	49.1	51.0	53.7	57.0	59.0	61.2	64.2	67.5	69.7	73.5	77.9
42.5°	46.9	46.9	47.7	49.4	51.8	52.9	55.7	57.3	60.3	62.0	65.8
45°	45.3	44.7	45.0	45.0	45.8	46.6	48.8	50.5	52.4	53.7	56.2
47.5°	43.9	42.8	42.5	42.0	41.7	42.2	43.9	45.3	46.1	47.2	48.0
50°	40.9	40.0	39.2	38.7	38.4	38.9	40.3	41.4	41.7	42.2	42.8
52.5°	39.2	38.1	37.3	36.5	36.5	37.0	38.1	38.9	39.2	39.5	40.0
55°	37.0	36.5	35.9	35.1	34.8	35.6	36.5	37.3	37.8	37.8	38.4
57.5°	34.3	33.7	34.3	34.0	33.7	34.3	35.4	36.2	36.5	36.5	36.7
60°	31.5	31.3	31.3	31.8	32.4	33.2	34.0	35.1	34.8	34.3	34.5
62.5°	29.1	28.8	29.1	29.9	30.7	31.5	32.6	33.4	32.6	32.1	32.1
65°	27.4	27.2	27.4	27.7	28.0	28.8	30.2	30.4	29.9	29.9	29.9
67.5°	25.2	25.0	24.7	25.0	25.2	25.5	26.6	26.9	26.9	26.9	26.9
70°	22.5	22.2	22.0	22.0	22.0	22.2	22.5	23.1	23.6	24.1	24.4
72.5°	19.5	18.9	18.9	18.9	18.4	18.6	18.9	20.0	20.6	21.1	21.7
75°	16.4	15.9	15.9	15.3	15.6	15.9	15.9	16.4	17.0	17.8	18.4
77.5°	12.9	12.9	12.9	12.6	12.6	12.9	13.2	13.2	13.7	14.5	15.3
80°	8.2	8.2	8.8	9.1	9.3	9.6	10.1	10.4	10.7	11.5	11.8
82.5°	3.0	3.3	3.6	3.6	4.4	5.5	5.8	6.6	7.1	8.0	8.0
85°	0.3	0.3	0.3	0.3	0.3	0.6	0.8	1.1	1.7	2.5	3.0
87.5°	0.6	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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REPORT NUMBER: P  
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**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	
178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	112.5°	6.9
175.3	176.1	175.8	175.5	175.8	176.4	176.1	176.4	176.6	177.2	176.9	115°	8.1
175.5	176.4	176.6	176.6	177.2	178.0	178.0	178.3	178.5	179.1	179.1	117.5°	9.6
179.4	181.3	181.3	181.6	182.4	183.2	183.5	183.7	183.5	183.5	183.5	120°	11.3
185.1	187.3	187.6	188.9	190.0	189.8	189.8	190.0	189.5	188.9	188.1	122.5°	13.2
188.1	190.0	190.6	192.0	193.6	193.9	194.7	195.3	194.7	193.4	192.0	125°	15.5
187.3	188.9	190.0	191.7	193.6	194.7	196.4	196.9	196.7	195.0	193.4	127.5°	17.9
183.7	185.7	187.0	189.2	191.4	193.1	194.7	195.6	195.6	194.2	193.1	130°	20.4
178.0	180.2	182.1	184.6	187.3	189.2	191.1	191.7	191.7	191.1	192.0	132.5°	22.8
172.0	174.4	176.6	179.1	182.7	184.6	186.8	188.4	189.2	190.3	193.9	135°	25.2
164.3	165.4	168.1	170.8	175.8	179.1	183.7	188.1	192.5	197.5	204.6	137.5°	27.6
150.8	152.8	156.1	159.9	164.8	170.8	179.4	187.8	195.8	203.2	212.0	140°	29.9
139.6	143.2	146.7	151.1	156.3	162.1	172.0	182.9	192.5	201.3	210.9	142.5°	32.1
127.5	131.9	136.6	142.3	147.3	152.5	160.7	172.8	184.3	194.2	204.3	145°	34.0
113.5	118.2	122.9	128.9	134.1	140.7	148.1	159.9	173.1	184.3	196.4	147.5°	35.6
98.5	102.6	107.8	113.3	119.3	127.0	134.9	145.9	159.6	171.7	185.4	150°	37.3
84.2	88.6	93.8	99.8	105.9	114.1	123.1	133.6	146.2	159.1	173.6	152.5°	38.8
70.7	76.5	82.0	88.0	94.3	102.0	111.6	122.9	135.5	149.2	164.5	155°	40.0
59.5	63.9	69.7	74.6	81.5	88.9	98.7	111.3	125.9	140.4	156.6	157.5°	41.1
49.6	52.4	57.3	63.4	69.7	77.3	85.6	98.2	113.0	128.9	147.0	160°	42.2
43.6	45.0	48.5	54.0	60.1	67.7	74.9	85.8	100.7	116.3	134.9	162.5°	43.2
40.6	41.2	43.1	47.2	52.9	59.8	67.5	76.8	89.9	105.3	123.1	165°	44.0
38.9	39.2	39.8	42.8	47.7	54.0	61.7	69.1	80.9	95.4	112.7	167.5°	44.4
37.0	37.3	37.6	39.2	42.8	48.3	54.8	60.9	71.6	84.5	100.9	170°	44.5
35.1	35.6	36.2	36.7	39.2	42.8	47.7	52.9	60.3	71.6	85.0	172.5°	44.9
32.6	33.2	34.0	34.5	35.4	37.6	40.6	43.9	47.7	55.7	66.6	175°	45.5
30.4	31.0	31.3	31.5	32.1	32.6	33.7	34.5	36.5	41.2	48.8	177.5°	45.7
27.4	28.0	28.0	28.2	28.5	28.5	29.1	29.3	29.9	31.3	34.5	180°	45.6
25.0	25.2	25.5	25.8	25.8	25.8	25.5	25.8	25.5	25.5	26.9		
22.0	22.2	22.5	22.8	23.1	23.3	23.6	23.6	23.3	22.8	22.8		
18.6	18.6	19.2	19.5	19.7	20.6	21.1	20.6	20.6	20.3	20.3		
15.6	16.2	16.4	16.4	17.0	17.8	18.4	18.1	17.3	17.3	17.5		
12.1	12.3	12.6	12.9	13.2	14.0	14.8	15.1	14.5	14.8	14.8		
8.0	8.2	8.8	9.1	9.3	10.1	11.0	11.8	11.5	12.1	11.5		
3.6	4.1	4.4	4.4	5.2	6.0	7.1	8.0	9.1	9.3	8.5		
0.0	0.3	0.3	0.3	1.1	1.9	3.6	5.5	7.4	5.8	4.4		
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	0.0	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: P173440  
 CATALOG NUMBER: ENC-FXX-I

**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°	178.0	178.0
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	176.9	177.2
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	179.4	179.4
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	182.9	182.9
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	187.6	186.8
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	190.3	188.9
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	192.0	190.6
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	192.5	192.5
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	193.9	196.1
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	198.6	204.0
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	212.3	220.0
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	223.0	233.1
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	223.8	236.4
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	218.9	232.6
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	211.4	227.1
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	202.4	220.0
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	192.0	210.1
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	182.4	201.0
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	175.5	195.3
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	168.1	189.2
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	156.3	181.3
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	143.7	168.7
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	132.2	156.1
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	119.9	144.0
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	103.7	127.8
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	82.8	105.6
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	59.5	78.7
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	40.3	53.5
										70°	29.3	36.5
										72.5°	23.9	27.4
										75°	21.1	23.1
										77.5°	18.6	19.7
										80°	14.8	15.9
										82.5°	11.5	12.6
										85°	8.5	9.3
										87.5°	3.9	3.9
										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



REPORT NUMBER: P173440

CATALOG NUMBER: ENC-FXX-LED-E1-SLF

LED-E1-SLR-7050-ULG-BBB

**tinued):**

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	112.5°	6.9	6.9	6.9
177.5	177.7	177.7	178.3	178.5	179.1	179.4	179.4	179.4	115°	8.1	8.1	8.1
179.9	180.2	180.5	181.3	181.6	182.4	183.2	183.5	184.3	117.5°	9.6	9.6	9.6
182.9	183.7	184.0	184.6	185.1	186.5	187.6	188.1	188.9	120°	11.3	11.3	11.3
186.5	186.8	186.8	187.3	188.7	189.5	190.9	193.4	195.0	122.5°	13.2	13.2	13.2
188.9	188.1	188.7	189.2	190.6	192.5	194.7	198.3	201.6	125°	15.5	15.5	15.5
190.6	190.6	192.0	193.1	195.6	198.6	202.7	207.6	212.5	127.5°	17.9	17.9	17.9
193.6	194.5	197.5	199.7	204.0	208.4	213.7	220.5	227.9	130°	20.4	20.4	20.4
199.1	201.3	204.6	208.1	212.5	219.1	227.9	236.7	246.5	132.5°	22.8	22.8	22.8
207.9	212.8	218.3	222.7	227.9	237.2	246.8	257.8	270.1	135°	25.2	25.2	25.2
227.1	232.6	240.8	248.2	255.6	269.0	281.4	294.0	310.7	137.5°	27.6	27.6	27.6
243.8	252.6	265.5	276.2	286.3	302.5	316.2	337.1	354.9	140°	29.9	29.9	29.9
250.9	265.2	281.4	296.7	315.7	331.6	351.9	376.8	400.1	142.5°	32.1	32.1	32.1
249.3	266.6	286.9	307.7	330.2	355.7	379.0	407.0	437.4	145°	34.0	34.0	34.0
245.4	264.9	288.5	313.5	340.3	372.2	401.5	436.3	474.2	147.5°	35.6	35.6	35.6
240.8	263.5	289.9	319.2	353.0	390.8	428.7	474.2	521.4	150°	37.3	37.3	37.3
233.7	259.7	291.5	328.0	369.4	413.8	463.5	517.8	568.5	152.5°	38.8	38.8	38.8
225.7	255.1	293.5	340.1	392.2	447.3	504.6	560.0	617.9	155°	40.0	40.0	40.0
220.5	253.7	298.4	354.1	414.7	478.6	542.5	603.1	666.1	157.5°	41.1	41.1	41.1
217.5	254.5	303.6	364.5	431.4	501.9	569.6	639.3	705.4	160°	42.2	42.2	42.2
214.8	256.7	308.3	371.1	442.1	517.0	591.0	666.1	739.4	162.5°	43.2	43.2	43.2
207.6	255.9	309.9	373.0	447.6	526.8	605.8	685.1	763.0	165°	44.0	44.0	44.0
195.3	248.2	306.3	371.1	449.2	532.6	615.4	699.1	776.4	167.5°	44.4	44.4	44.4
178.8	232.6	293.7	362.8	443.5	529.9	618.7	708.1	784.1	170°	44.5	44.5	44.5
160.4	208.1	271.5	343.9	424.8	513.1	604.2	699.6	775.3	172.5°	44.9	44.9	44.9
135.2	177.7	241.3	311.8	390.8	478.6	561.1	665.3	742.4	175°	45.5	45.5	45.5
103.4	141.2	196.1	267.9	348.3	425.1	500.0	604.2	689.7	177.5°	45.7	45.7	45.7
71.3	100.7	146.7	209.5	284.7	355.4	430.0	527.4	627.2	180°	45.6	45.6	45.6
46.4	65.3	97.1	145.4	204.9	270.1	332.1	421.2	528.2				
32.9	41.7	59.2	89.7	134.9	185.4	236.1	296.5	398.5				
26.1	30.4	36.5	52.1	79.0	115.5	156.3	194.5	279.7				
21.1	23.1	26.1	32.1	46.6	66.6	92.1	122.6	173.9				
17.0	18.4	20.3	22.8	28.8	38.4	53.5	67.5	99.3				
13.7	15.3	15.9	16.2	18.6	22.0	28.2	38.1	56.8				
9.9	10.4	10.4	10.7	11.2	12.1	16.2	28.0	41.4				
3.9	3.3	3.6	2.8	3.0	3.3	5.2	6.0	9.6				
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				



REPORT NUMBER: P173440

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3-7050-ULG-BBB

**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°	178.0	178.0	178.0	178.0
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	180.2	180.2	179.9	179.9
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	184.8	185.7	185.1	185.9
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	190.9	191.4	192.0	193.1
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	197.2	199.1	201.0	201.8
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	204.6	208.1	212.0	213.9
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	217.5	223.0	227.3	230.4
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	234.5	241.9	249.3	254.5
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	256.2	266.8	277.3	283.8
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	283.6	296.2	307.7	320.3
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	321.4	339.0	359.3	370.3
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	375.4	399.3	413.6	438.0
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	427.0	456.3	490.9	524.7
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	470.6	513.7	564.4	615.7
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	516.4	571.0	629.7	695.5
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	571.3	627.8	691.1	763.2
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	621.2	685.6	763.2	829.9
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	676.3	744.9	832.4	909.4
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	729.8	801.4	897.1	981.5
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	776.7	848.5	950.6	1038.6
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	814.3	894.3	993.9	1078.4
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	843.6	928.4	1026.8	1105.8
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	858.9	944.5	1036.9	1117.3
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	861.1	943.4	1028.4	1106.9
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	840.3	913.3	994.4	1076.4
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	793.7	850.7	927.8	1009.0
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	733.9	771.2	822.5	902.0
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	675.2	699.9	726.8	785.4
								70°	585.0	605.5	632.4	668.9
								72.5°	455.0	482.1	501.3	536.7
								75°	342.0	357.6	385.3	417.9
								77.5°	240.5	256.4	288.0	325.3
								80°	161.5	172.5	192.0	224.1
								82.5°	99.0	111.6	128.1	155.8
								85°	66.4	86.1	107.2	128.1
								87.5°	28.0	47.2	59.8	62.8
								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





REPORT NUMBER: P173440

CATALOG NUMBER: ENC-FXX-LED-E1-SLR-7050-ULG-BBB

G-BBB

**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
178.0	178.0	178.0	178.0	178.0	178.0	178.0	112.5°	6.9	6.9	6.9	6.9	6.9
180.7	180.5	181.0	181.0	180.7	180.7	181.6	115°	8.1	8.1	8.1	8.1	8.1
186.5	186.8	187.3	186.8	187.8	186.5	186.8	117.5°	9.6	9.6	9.6	9.6	9.6
194.5	194.7	195.6	195.3	196.1	195.3	194.2	120°	11.3	11.3	11.3	11.3	11.3
204.6	205.1	205.1	206.5	207.9	206.2	204.3	122.5°	13.2	13.2	13.2	13.2	13.2
216.4	218.3	217.5	220.2	221.6	220.5	219.1	125°	15.5	15.5	15.5	15.5	15.5
232.6	236.4	235.9	241.1	243.0	242.2	242.4	127.5°	17.9	17.9	17.9	17.9	17.9
256.7	262.2	263.0	271.2	276.5	275.6	274.3	130°	20.4	20.4	20.4	20.4	20.4
284.7	298.9	302.2	309.4	315.1	317.3	317.0	132.5°	22.8	22.8	22.8	22.8	22.8
332.1	342.5	350.0	362.8	368.1	373.0	371.6	135°	25.2	25.2	25.2	25.2	25.2
386.2	395.7	412.2	428.7	433.9	438.5	444.6	137.5°	27.6	27.6	27.6	27.6	27.6
455.2	469.2	495.3	517.5	530.1	526.3	524.4	140°	29.9	29.9	29.9	29.9	29.9
548.8	583.9	603.1	621.2	629.4	617.3	602.0	142.5°	32.1	32.1	32.1	32.1	32.1
660.7	701.8	713.9	722.6	707.0	690.6	645.6	145°	34.0	34.0	34.0	34.0	34.0
742.7	783.0	807.9	817.3	783.8	735.0	674.1	147.5°	35.6	35.6	35.6	35.6	35.6
816.7	857.6	868.6	872.7	827.7	764.6	705.4	150°	37.3	37.3	37.3	37.3	37.3
895.4	929.7	936.0	933.8	874.0	799.4	744.0	152.5°	38.8	38.8	38.8	38.8	38.8
967.0	1002.1	996.3	986.8	918.7	843.3	782.2	155°	40.0	40.0	40.0	40.0	40.0
1035.0	1060.8	1050.4	1026.5	961.0	877.0	812.1	157.5°	41.1	41.1	41.1	41.1	41.1
1080.6	1102.2	1091.0	1060.8	990.0	899.8	828.5	160°	42.2	42.2	42.2	42.2	42.2
1115.1	1131.5	1125.0	1081.4	1007.1	913.8	835.9	162.5°	43.2	43.2	43.2	43.2	43.2
1132.4	1148.6	1144.7	1085.2	1009.2	916.0	832.4	165°	44.0	44.0	44.0	44.0	44.0
1138.7	1157.1	1143.6	1070.9	994.7	907.8	820.0	167.5°	44.4	44.4	44.4	44.4	44.4
1133.5	1142.0	1122.2	1043.8	965.1	882.3	802.4	170°	44.5	44.5	44.5	44.5	44.5
1114.3	1108.2	1081.1	996.6	923.1	846.9	783.0	172.5°	44.9	44.9	44.9	44.9	44.9
1060.5	1044.9	1023.0	942.1	867.2	791.0	752.8	175°	45.5	45.5	45.5	45.5	45.5
949.7	945.4	935.2	875.1	800.8	728.1	703.7	177.5°	45.7	45.7	45.7	45.7	45.7
807.7	803.3	804.6	764.1	710.3	639.6	640.1	180°	45.6	45.6	45.6	45.6	45.6
692.5	668.3	639.8	596.2	565.0	555.3	586.3						
557.3	544.1	520.8	482.7	447.3	459.6	529.0						
430.9	422.9	439.9	444.3	430.6	422.3	445.9						
353.0	370.3	397.4	431.9	435.2	423.2	378.5						
268.8	313.8	351.3	397.9	393.0	367.0	318.1						
188.1	231.7	267.1	306.3	305.0	281.1	257.0						
144.0	157.7	171.1	212.3	228.2	209.8	183.5						
68.0	68.6	82.6	101.8	109.1	124.5	122.9						
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						
0.2	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						



REPORT NUMBER: P173440

CATALOG NUMBER: ENC-FXX-LED-E1-SLR-7050-ULG-BBB

**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°	178.0	178.0	178.0	178.0	178.0	178.0
8.1	8.1	8.1	8.1	8.1	8.1	2.5°	181.8	181.6	181.6	181.6	181.8	181.6
9.6	9.6	9.6	9.6	9.6	9.6	5°	187.3	186.8	186.5	186.5	186.2	186.2
11.3	11.3	11.3	11.3	11.3	11.3	7.5°	194.5	193.4	193.4	192.5	192.3	191.4
13.2	13.2	13.2	13.2	13.2	13.2	10°	204.0	202.9	202.7	200.5	200.5	198.6
15.5	15.5	15.5	15.5	15.5	15.5	12.5°	218.0	218.0	218.0	215.3	214.8	211.4
17.9	17.9	17.9	17.9	17.9	17.9	15°	242.2	240.0	241.9	237.2	237.0	232.6
20.4	20.4	20.4	20.4	20.4	20.4	17.5°	274.8	274.8	271.0	268.8	267.4	261.1
22.8	22.8	22.8	22.8	22.8	22.8	20°	318.1	318.4	311.8	305.8	303.0	295.9
25.2	25.2	25.2	25.2	25.2	25.2	22.5°	373.3	368.1	359.8	355.4	351.1	339.2
27.6	27.6	27.6	27.6	27.6	27.6	25°	445.7	443.5	428.9	413.0	406.5	388.6
29.9	29.9	29.9	29.9	29.9	29.9	27.5°	516.7	512.0	488.7	461.6	444.8	420.4
32.1	32.1	32.1	32.1	32.1	32.1	30°	579.2	548.5	520.8	488.2	462.7	432.2
34.0	34.0	34.0	34.0	34.0	34.0	32.5°	611.8	573.2	532.9	506.0	473.9	440.2
35.6	35.6	35.6	35.6	35.6	35.6	35°	637.1	595.7	555.6	520.8	484.6	446.5
37.3	37.3	37.3	37.3	37.3	37.3	37.5°	669.2	625.6	581.4	540.0	495.8	451.1
38.8	38.8	38.8	38.8	38.8	38.8	40°	704.8	654.9	600.3	550.1	500.5	449.5
40.0	40.0	40.0	40.0	40.0	40.0	42.5°	734.5	674.1	609.9	553.4	498.9	442.6
41.1	41.1	41.1	41.1	41.1	41.1	45°	750.9	682.1	610.7	549.9	492.3	434.1
42.2	42.2	42.2	42.2	42.2	42.2	47.5°	758.6	682.3	605.3	541.9	483.5	422.1
43.2	43.2	43.2	43.2	43.2	43.2	50°	757.8	675.5	594.8	531.2	473.6	409.5
44.0	44.0	44.0	44.0	44.0	44.0	52.5°	749.5	664.2	582.8	522.7	465.1	398.7
44.4	44.4	44.4	44.4	44.4	44.4	55°	736.9	652.2	570.7	517.0	458.0	390.0
44.5	44.5	44.5	44.5	44.5	44.5	57.5°	722.6	641.8	562.0	515.9	453.9	388.4
44.9	44.9	44.9	44.9	44.9	44.9	60°	716.4	642.8	567.4	508.2	451.7	391.9
45.5	45.5	45.5	45.5	45.5	45.5	62.5°	712.2	653.3	578.7	513.4	455.2	407.0
45.7	45.7	45.7	45.7	45.7	45.7	65°	695.5	667.8	595.9	532.0	481.0	442.4
45.6	45.6	45.6	45.6	45.6	45.6	67.5°	675.5	671.9	602.8	543.0	510.4	488.4
						70°	654.6	667.5	612.7	571.8	553.7	544.9
						72.5°	621.2	636.0	585.0	560.6	555.1	548.8
						75°	518.1	520.8	481.9	468.4	478.0	463.2
						77.5°	372.4	379.6	354.3	357.9	389.2	357.1
						80°	275.9	247.9	232.0	242.7	272.6	226.8
						82.5°	227.3	184.0	156.1	170.6	182.1	133.8
						85°	175.0	140.4	115.5	93.2	88.9	57.3
						87.5°	137.4	101.5	56.5	31.8	21.4	1.4
						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: P173440

CATALOG NUMBER: ENC-FXX-LED-E1-SLR-7050-ULG-BBB

**CANDELA DISTRIBUTION (continued):**

360°	330°	335°	340°	345°	350°	355°	360°
178.0	112.5°	6.9	6.9	6.9	6.9	6.9	6.9
181.8	115°	8.1	8.1	8.1	8.1	8.1	8.1
186.2	117.5°	9.6	9.6	9.6	9.6	9.6	9.6
191.4	120°	11.3	11.3	11.3	11.3	11.3	11.3
199.4	122.5°	13.2	13.2	13.2	13.2	13.2	13.2
210.9	125°	15.5	15.5	15.5	15.5	15.5	15.5
231.5	127.5°	17.9	17.9	17.9	17.9	17.9	17.9
258.1	130°	20.4	20.4	20.4	20.4	20.4	20.4
290.7	132.5°	22.8	22.8	22.8	22.8	22.8	22.8
327.5	135°	25.2	25.2	25.2	25.2	25.2	25.2
369.4	137.5°	27.6	27.6	27.6	27.6	27.6	27.6
395.2	140°	29.9	29.9	29.9	29.9	29.9	29.9
400.7	142.5°	32.1	32.1	32.1	32.1	32.1	32.1
404.5	145°	34.0	34.0	34.0	34.0	34.0	34.0
405.6	147.5°	35.6	35.6	35.6	35.6	35.6	35.6
404.0	150°	37.3	37.3	37.3	37.3	37.3	37.3
397.4	152.5°	38.8	38.8	38.8	38.8	38.8	38.8
388.9	155°	40.0	40.0	40.0	40.0	40.0	40.0
378.2	157.5°	41.1	41.1	41.1	41.1	41.1	41.1
365.0	160°	42.2	42.2	42.2	42.2	42.2	42.2
352.7	162.5°	43.2	43.2	43.2	43.2	43.2	43.2
343.1	165°	44.0	44.0	44.0	44.0	44.0	44.0
337.1	167.5°	44.4	44.4	44.4	44.4	44.4	44.4
337.9	170°	44.5	44.5	44.5	44.5	44.5	44.5
346.4	172.5°	44.9	44.9	44.9	44.9	44.9	44.9
367.8	175°	45.5	45.5	45.5	45.5	45.5	45.5
408.4	177.5°	45.7	45.7	45.7	45.7	45.7	45.7
448.1	180°	45.6	45.6	45.6	45.6	45.6	45.6
486.5							
461.3							
352.1							
253.4							
147.0							
91.9							
39.8							
1.4							
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)