

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: P173449

Luminaire Tested: **ENC-FXX-LED-E1-SLR-8030-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173449
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-8030-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1200.5 lumens
Efficiency: N/A
Efficacy: 218.3 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

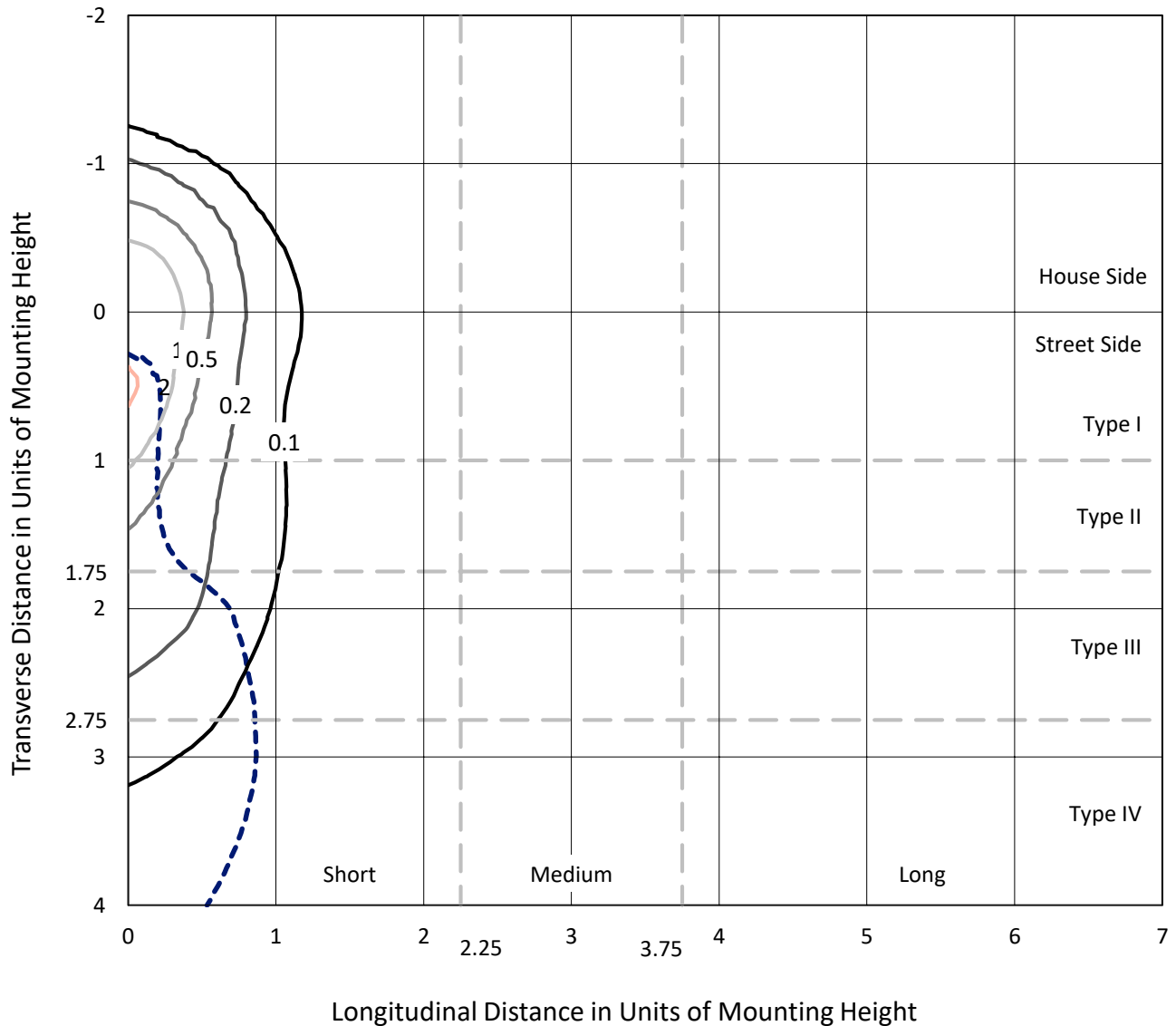


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

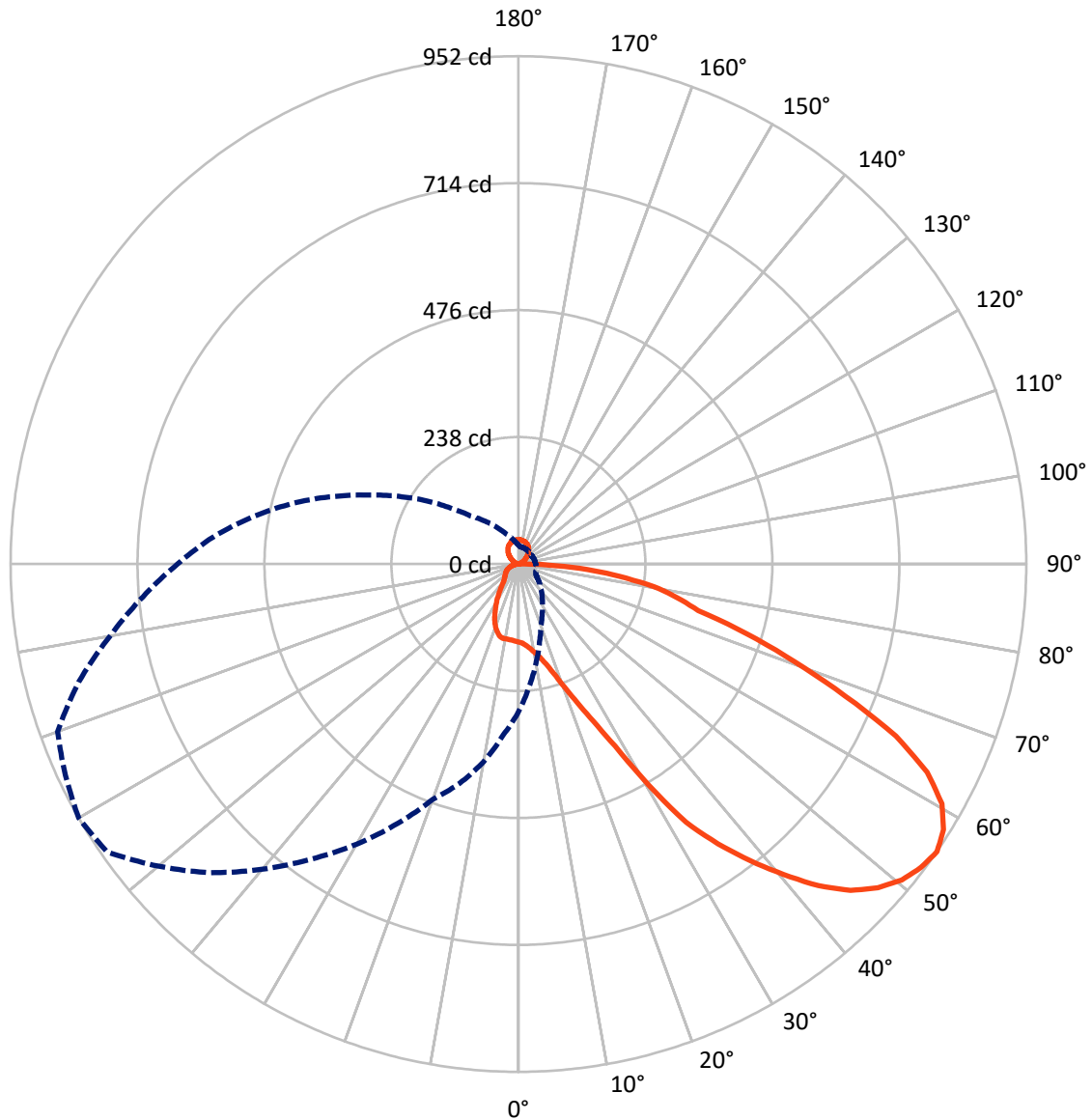


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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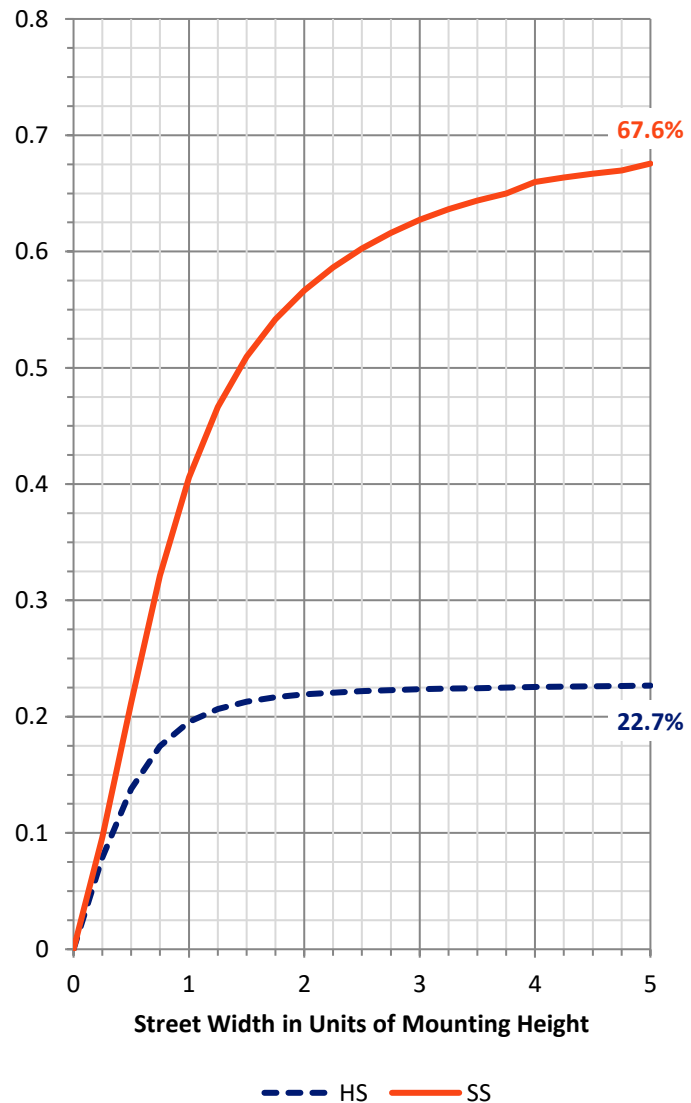
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	274.5	51.1	325.6
	% Fixture	22.9	4.3	27.1
Street Side	Lumens	823.8	51.1	874.9
	% Fixture	68.6	4.3	72.9
Total	Lumens	1098.4	102.1	1200.5
	% Fixture	91.5	8.5	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	1.2
10°-20°	47.4	3.9
20°-30°	92.0	7.7
30°-40°	144.6	12.0
40°-50°	193.2	16.1
50°-60°	226.7	18.9
60°-70°	215.1	17.9
70°-80°	129.8	10.8
80°-90°	35.2	2.9
90°-100°	0.4	0.0
100°-110°	4.0	0.3
110°-120°	8.2	0.7
120°-130°	13.9	1.2
130°-140°	19.4	1.6
140°-150°	21.2	1.8
150°-160°	18.4	1.5
160°-170°	12.4	1.0
170°-180°	4.3	0.4
0°-90°	1098.4	91.5
0°-180°	1200.5	100.0



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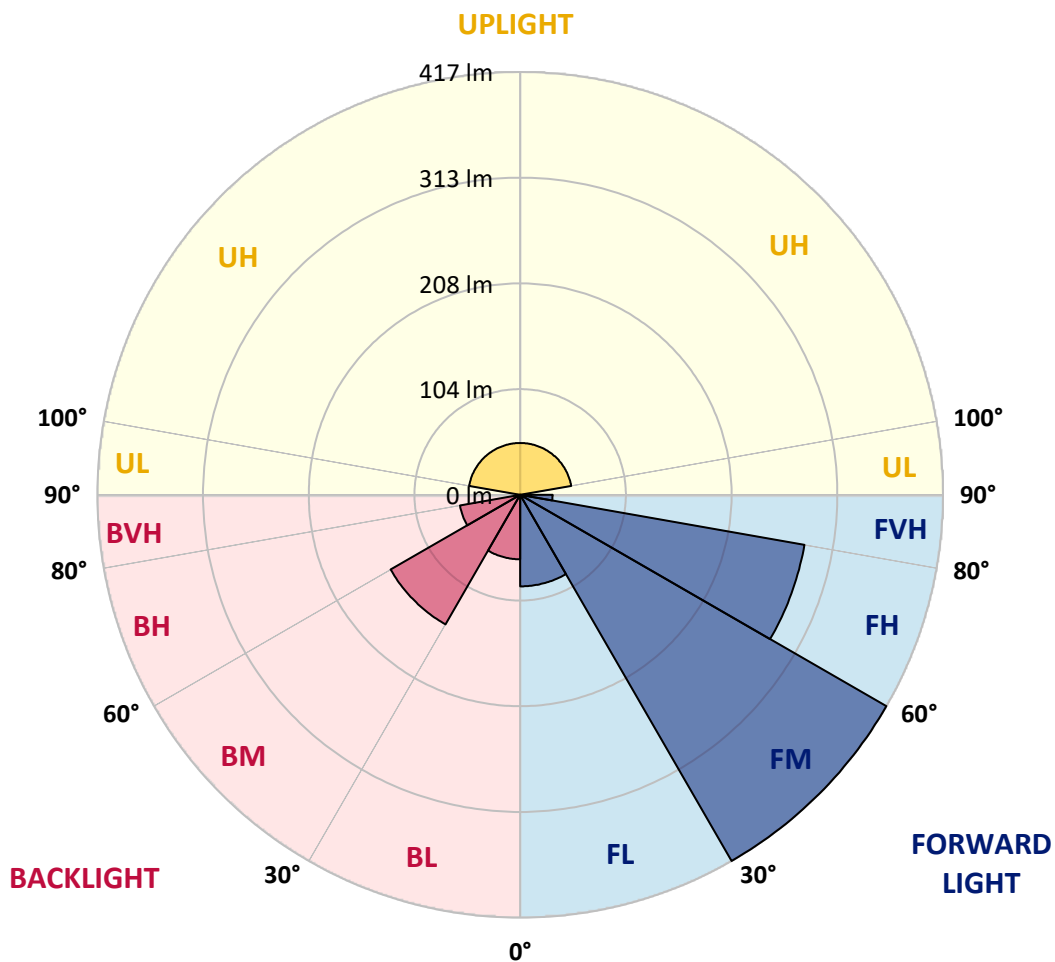
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.3	7.5			
FM	(30°-60°)	417.0	34.7			
FH	(60°-80°)	284.6	23.7			G0/660
FVH	(80°-90°)	32.0	2.7			G1/100
BL	(0°-30°)	63.5	5.3	B0/110		
BM	(30°-60°)	147.5	12.3	B0/220		
BH	(60°-80°)	60.3	5.0	B0/110		G0/110
BVH	(80°-90°)	3.2	0.3			G0/10
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	51.1	4.3		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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	149.5	150.7	149.3	149.5	149.1	148.6	148.9	148.6	148.2	148.2	147.8
5°	153.2	153.4	152.5	152.3	151.8	151.1	151.4	150.7	150.2	149.8	148.9
7.5°	157.4	157.2	156.1	155.4	155.2	154.1	153.9	152.9	152.3	151.6	150.5
10°	164.0	162.2	160.8	159.7	159.3	157.9	156.8	156.3	155.2	153.6	152.7
12.5°	173.5	172.3	169.6	167.4	166.0	164.2	162.6	161.5	159.7	157.4	156.3
15°	190.4	186.8	183.6	180.2	177.5	174.6	170.8	167.8	164.7	160.8	157.9
17.5°	212.3	207.8	202.8	197.4	191.7	185.4	178.0	172.3	166.0	159.5	155.0
20°	239.1	230.8	223.8	213.4	203.0	193.1	181.4	171.4	162.4	153.9	147.3
22.5°	269.3	256.7	242.5	226.7	210.0	194.7	178.2	164.7	151.6	141.0	133.6
25°	303.9	284.0	262.3	238.4	214.5	191.7	171.4	154.5	140.5	127.9	119.6
27.5°	325.1	298.0	272.1	243.6	216.3	190.0	165.1	145.5	129.5	115.9	106.3
30°	329.6	302.3	271.8	240.9	212.7	183.8	156.8	134.9	117.1	102.9	93.2
32.5°	332.7	301.1	267.3	233.0	202.4	171.9	144.4	122.7	103.8	89.8	78.5
35°	333.6	296.9	258.8	220.6	188.4	157.2	129.7	106.9	90.5	76.7	66.5
37.5°	332.3	289.9	247.2	207.8	173.2	140.8	113.7	93.8	79.8	66.5	57.5
40°	326.9	281.1	236.9	195.4	157.9	124.3	100.2	83.0	71.1	60.9	53.9
42.5°	319.9	270.9	225.3	180.9	143.0	111.2	89.3	75.6	65.4	58.2	52.3
45°	311.1	260.3	213.4	168.1	130.4	101.3	83.0	71.5	63.6	57.3	51.9
47.5°	300.3	249.0	201.9	158.4	121.8	96.3	81.7	71.5	63.6	56.9	51.0
50°	290.1	238.9	193.1	152.3	118.0	96.5	83.0	72.4	63.4	55.9	49.4
52.5°	282.2	232.8	189.5	150.0	118.4	98.8	85.7	73.8	64.1	55.9	49.0
55°	277.2	230.3	189.0	152.0	123.2	104.9	90.0	77.8	67.2	57.8	49.6
57.5°	277.9	233.0	194.5	160.4	134.0	115.5	98.6	85.1	71.7	60.0	49.9
60°	284.9	242.0	207.5	180.0	152.0	129.7	109.4	91.4	73.8	59.3	48.3
62.5°	302.5	263.3	235.1	206.9	174.4	143.7	115.9	92.5	71.5	55.9	44.5
65°	335.9	301.4	274.3	239.1	192.9	149.5	115.3	89.1	67.2	50.5	39.2
67.5°	368.6	332.1	293.9	240.9	188.4	145.3	107.8	80.7	59.5	43.3	34.7
70°	400.2	352.8	303.9	238.6	175.3	125.0	90.0	67.4	47.4	36.1	29.8
72.5°	379.4	324.8	274.7	210.5	150.7	102.6	71.7	49.0	36.3	29.8	25.7
75°	289.6	251.8	208.2	161.5	111.2	72.4	47.8	34.7	28.0	23.5	21.0
77.5°	208.4	180.2	144.6	106.0	69.5	45.8	32.5	24.8	20.8	17.6	16.3
80°	120.9	103.8	81.0	58.4	39.7	28.7	21.7	17.6	15.1	12.9	12.4
82.5°	75.6	60.4	42.9	28.9	20.3	15.8	12.6	10.8	9.0	7.9	6.8
85°	32.7	23.5	13.3	7.4	5.6	4.3	3.4	2.9	2.5	2.3	1.8
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4	1.1
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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	147.8	147.3	147.1	147.1	146.6	146.6	146.2	146.4	146.2	145.7	145.5
5°	148.6	148.0	147.5	147.1	146.4	146.2	145.7	145.7	145.0	144.4	144.1
7.5°	149.8	148.9	148.2	147.3	146.4	146.0	145.0	144.6	143.9	143.2	143.0
10°	152.0	150.5	149.3	148.2	146.6	145.7	144.4	143.7	143.0	142.1	141.6
12.5°	154.5	152.5	150.9	148.2	146.6	145.0	143.7	142.3	141.0	140.1	139.9
15°	154.5	152.0	148.6	146.2	143.9	141.6	140.3	139.0	137.4	136.7	136.5
17.5°	150.7	146.4	143.2	140.5	138.5	136.7	135.3	134.7	133.3	132.0	131.5
20°	141.9	136.9	133.3	130.4	128.1	126.3	125.9	125.2	124.5	124.5	124.7
22.5°	127.5	122.0	118.9	115.7	113.3	112.3	112.6	113.3	113.5	113.3	114.8
25°	113.0	107.8	103.5	100.6	97.7	98.4	97.5	99.0	99.7	99.9	101.7
27.5°	99.0	93.4	88.9	86.4	85.1	84.1	83.5	85.5	86.0	87.5	89.1
30°	84.1	79.0	73.8	71.7	70.6	69.9	70.2	72.0	73.1	75.3	76.7
32.5°	70.4	64.1	60.2	57.5	56.4	56.2	56.4	57.8	59.1	62.0	64.1
35°	58.7	52.5	49.4	47.8	46.2	45.6	46.2	46.7	47.1	49.6	52.1
37.5°	51.9	47.6	45.1	43.5	42.4	41.7	41.7	41.5	41.7	42.2	43.3
40°	49.0	45.8	43.5	42.0	41.1	40.6	40.4	40.1	39.9	39.9	39.9
42.5°	47.8	44.2	42.0	40.6	40.1	40.1	40.1	39.9	39.5	39.0	38.8
45°	46.9	43.1	40.6	39.5	39.5	39.5	39.7	39.5	39.0	38.3	37.7
47.5°	45.3	41.5	39.2	38.3	38.3	38.3	38.6	38.3	37.9	37.5	36.8
50°	43.5	39.5	37.2	36.6	36.3	36.3	36.1	35.9	35.6	35.2	34.5
52.5°	42.4	38.1	36.1	35.6	35.2	35.0	34.5	34.3	33.8	33.6	32.9
55°	42.2	37.2	35.4	35.0	34.5	33.8	32.9	32.5	31.6	31.3	30.9
57.5°	41.5	36.3	34.3	33.2	32.0	31.3	30.5	30.0	29.6	29.1	28.7
60°	39.2	33.6	31.1	30.5	29.8	29.6	29.1	28.7	28.0	27.3	26.4
62.5°	35.0	30.2	28.7	28.4	28.2	27.7	27.3	26.6	26.2	25.3	24.3
65°	31.6	28.4	27.5	27.1	26.8	26.2	25.7	25.3	24.6	23.9	23.0
67.5°	28.7	26.4	25.9	25.3	25.0	24.6	23.9	23.5	22.8	22.1	21.2
70°	25.9	24.2	23.9	23.5	23.0	22.8	21.9	21.2	21.0	20.1	19.4
72.5°	23.0	21.9	21.4	21.0	20.5	20.3	19.8	19.4	18.9	18.0	17.2
75°	19.2	18.7	18.5	18.0	17.8	17.4	16.7	16.0	15.8	15.1	14.4
77.5°	15.3	14.9	14.9	14.4	13.8	13.1	12.4	11.5	11.5	11.5	11.0
80°	10.8	10.4	9.7	9.5	9.0	8.6	7.9	7.4	7.0	7.0	7.0
82.5°	6.3	6.1	5.6	5.0	4.5	4.3	3.6	3.2	2.9	2.5	2.5
85°	1.4	1.4	0.9	0.9	0.7	0.7	0.7	0.5	0.5	0.2	0.2
87.5°	1.1	1.1	1.1	0.9	0.9	0.9	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: ENC-FXX-LED-E1-SLR-8030-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°	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4
2.5°	145.5	145.3	144.8	143.9	143.7	143.5	143.7	143.7	143.5	143.7	143.9
5°	144.1	143.9	143.2	142.8	142.3	142.3	143.7	143.7	143.0	143.2	144.1
7.5°	143.0	143.0	142.6	142.3	142.6	143.2	144.4	145.3	145.0	146.4	146.9
10°	141.6	141.9	142.1	143.0	144.4	145.5	147.3	148.9	149.3	150.5	151.1
12.5°	140.3	141.2	142.3	144.1	146.0	147.8	149.8	151.6	151.8	152.9	153.9
15°	136.9	138.3	139.9	141.9	144.6	146.6	149.5	150.9	151.4	152.0	153.2
17.5°	131.7	132.4	133.6	135.8	138.7	141.5	144.8	147.1	148.4	149.3	149.8
20°	124.7	126.1	126.8	128.8	130.4	132.4	136.9	139.9	142.6	143.9	145.3
22.5°	115.0	116.6	118.2	120.2	121.1	122.5	126.8	131.3	135.3	138.1	139.6
25°	102.9	104.7	106.9	109.4	110.5	111.9	116.8	121.3	126.3	131.1	133.3
27.5°	90.7	93.0	95.2	98.1	99.9	101.5	105.8	110.1	115.3	119.8	122.0
30°	79.0	82.1	84.1	87.5	89.1	90.7	94.5	99.3	102.9	108.0	111.0
32.5°	66.8	69.0	72.8	76.7	78.5	80.1	83.7	87.7	90.9	96.1	100.4
35°	55.7	57.8	61.8	65.7	66.8	69.3	72.8	76.5	79.4	84.1	88.2
37.5°	45.3	48.7	51.9	54.8	57.3	59.1	62.5	65.7	67.2	71.7	76.0
40°	40.4	42.0	44.2	46.9	48.5	50.3	52.8	55.5	57.3	60.4	64.1
42.5°	38.6	38.6	39.2	40.6	42.6	43.5	45.8	47.1	49.6	51.0	54.1
45°	37.2	36.8	37.0	37.0	37.7	38.3	40.1	41.5	43.1	44.2	46.2
47.5°	36.1	35.2	35.0	34.5	34.3	34.7	36.1	37.2	37.9	38.8	39.5
50°	33.6	32.9	32.2	31.8	31.6	32.0	33.2	34.1	34.3	34.7	35.2
52.5°	32.2	31.3	30.7	30.0	30.0	30.5	31.3	32.0	32.2	32.5	32.9
55°	30.5	30.0	29.6	28.9	28.7	29.3	30.0	30.7	31.1	31.1	31.6
57.5°	28.2	27.7	28.2	28.0	27.7	28.2	29.1	29.8	30.0	30.0	30.2
60°	25.9	25.7	25.7	26.2	26.6	27.3	28.0	28.9	28.7	28.2	28.4
62.5°	23.9	23.7	23.9	24.6	25.3	25.9	26.8	27.5	26.8	26.4	26.4
65°	22.6	22.3	22.6	22.8	23.0	23.7	24.8	25.0	24.6	24.6	24.6
67.5°	20.8	20.5	20.3	20.5	20.8	21.0	21.9	22.1	22.1	22.1	22.1
70°	18.5	18.3	18.0	18.0	18.0	18.3	18.5	18.9	19.4	19.8	20.1
72.5°	16.0	15.6	15.6	15.6	15.1	15.3	15.6	16.5	16.9	17.4	17.8
75°	13.5	13.1	13.1	12.6	12.9	13.1	13.1	13.5	14.0	14.7	15.1
77.5°	10.6	10.6	10.6	10.4	10.4	10.6	10.8	10.8	11.3	11.9	12.6
80°	6.8	6.8	7.2	7.4	7.7	7.9	8.4	8.6	8.8	9.5	9.7
82.5°	2.5	2.7	2.9	2.9	3.6	4.5	4.7	5.4	5.9	6.5	6.5
85°	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.9	1.4	2.0	2.5
87.5°	0.5	0.2	0.2	0.2	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°	
146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	112.5°	6.9
144.1	144.8	144.6	144.4	144.6	145.0	144.8	145.0	145.3	145.7	145.5	115°	8.1
144.4	145.0	145.3	145.3	145.7	146.4	146.4	146.6	146.9	147.3	147.3	117.5°	9.6
147.5	149.1	149.1	149.3	150.0	150.7	150.9	151.1	150.9	150.9	150.9	120°	11.3
152.3	154.1	154.3	155.4	156.3	156.1	156.1	156.3	155.9	155.4	154.8	122.5°	13.2
154.8	156.3	156.8	157.9	159.3	159.5	160.2	160.6	160.2	159.0	157.9	125°	15.5
154.1	155.4	156.3	157.7	159.3	160.2	161.5	162.0	161.8	160.4	159.0	127.5°	17.9
151.1	152.7	153.9	155.6	157.4	158.8	160.2	160.8	160.8	159.7	158.8	130°	20.4
146.4	148.2	149.8	151.8	154.1	155.6	157.2	157.7	157.7	157.2	157.9	132.5°	22.8
141.5	143.5	145.3	147.3	150.2	151.8	153.6	155.0	155.6	156.5	159.5	135°	25.2
135.1	136.0	138.3	140.5	144.6	147.3	151.1	154.8	158.4	162.4	168.3	137.5°	27.6
124.1	125.7	128.3	131.5	135.6	140.5	147.5	154.5	161.1	167.2	174.4	140°	29.9
114.8	117.8	120.7	124.3	128.6	133.3	141.5	150.5	158.4	165.6	173.5	142.5°	32.1
104.9	108.5	112.3	117.1	121.1	125.4	132.2	142.1	151.6	159.7	168.1	145°	34.0
93.4	97.2	101.0	106.0	110.3	115.7	121.8	131.5	142.3	151.6	161.5	147.5°	35.6
81.0	84.4	88.6	93.2	98.1	104.4	111.0	120.0	131.3	141.2	152.5	150°	37.3
69.3	72.8	77.2	82.1	87.1	93.8	101.3	109.9	120.2	130.8	142.8	152.5°	38.8
58.2	62.9	67.4	72.4	77.6	83.9	91.8	101.0	111.4	122.7	135.3	155°	40.0
49.0	52.5	57.3	61.4	67.0	73.1	81.2	91.6	103.5	115.5	128.8	157.5°	41.1
40.8	43.1	47.1	52.1	57.3	63.6	70.4	80.7	93.0	106.0	120.9	160°	42.2
35.9	37.0	39.9	44.5	49.4	55.7	61.6	70.6	82.8	95.6	111.0	162.5°	43.2
33.4	33.8	35.4	38.8	43.5	49.2	55.5	63.2	74.0	86.6	101.3	165°	44.0
32.0	32.2	32.7	35.2	39.2	44.5	50.8	56.9	66.5	78.5	92.7	167.5°	44.4
30.5	30.7	30.9	32.2	35.2	39.7	45.1	50.1	58.9	69.5	83.0	170°	44.5
28.9	29.3	29.8	30.2	32.2	35.2	39.2	43.5	49.6	58.9	69.9	172.5°	44.9
26.8	27.3	28.0	28.4	29.1	30.9	33.4	36.1	39.2	45.8	54.8	175°	45.5
25.0	25.5	25.7	25.9	26.4	26.8	27.7	28.4	30.0	33.8	40.1	177.5°	45.7
22.6	23.0	23.0	23.2	23.5	23.5	23.9	24.2	24.6	25.7	28.4	180°	45.6
20.5	20.8	21.0	21.2	21.2	21.2	21.0	21.2	21.0	21.0	22.1		
18.0	18.3	18.5	18.7	18.9	19.2	19.4	19.4	19.2	18.7	18.7		
15.3	15.3	15.8	16.0	16.3	16.9	17.4	16.9	16.9	16.7	16.7		
12.9	13.3	13.5	13.5	14.0	14.7	15.1	14.9	14.2	14.2	14.4		
9.9	10.2	10.4	10.6	10.8	11.5	12.2	12.4	11.9	12.2	12.2		
6.5	6.8	7.2	7.4	7.7	8.4	9.0	9.7	9.5	9.9	9.5		
2.9	3.4	3.6	3.6	4.3	5.0	5.9	6.5	7.4	7.7	7.0		
0.0	0.2	0.2	0.2	0.9	1.6	2.9	4.5	6.1	4.7	3.6		
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	0.0	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: P173449
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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°	146.4	146.4
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	145.5	145.7
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	147.5	147.5
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	150.5	150.5
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	154.3	153.6
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	156.5	155.4
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	157.9	156.8
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	158.4	158.4
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	159.5	161.3
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	163.3	167.8
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	174.6	180.9
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	183.4	191.7
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	184.1	194.5
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	180.0	191.3
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	173.9	186.8
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	166.5	180.9
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	157.9	172.8
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	150.0	165.3
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	144.4	160.6
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	138.3	155.6
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	128.6	149.1
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	118.2	138.7
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	108.7	128.3
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	98.6	118.4
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	85.3	105.1
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	68.1	86.8
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	49.0	64.8
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	33.2	44.0
										70°	24.2	30.0
										72.5°	19.6	22.6
										75°	17.4	18.9
										77.5°	15.3	16.3
										80°	12.2	13.1
										82.5°	9.5	10.4
										85°	7.0	7.7
										87.5°	3.2	3.2
										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: P173449

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

LED-E1-SLR-8030-ULG-CWB

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	146.4	112.5°	6.9	6.9	6.9
146.0	146.2	146.2	146.6	146.9	147.3	147.5	147.5	147.5	115°	8.1	8.1	8.1
148.0	148.2	148.4	149.1	149.3	150.0	150.7	150.9	151.6	117.5°	9.6	9.6	9.6
150.5	151.1	151.4	151.8	152.3	153.4	154.3	154.8	155.4	120°	11.3	11.3	11.3
153.4	153.6	153.6	154.1	155.2	155.9	157.0	159.0	160.4	122.5°	13.2	13.2	13.2
155.4	154.8	155.2	155.6	156.8	158.4	160.2	163.1	165.8	125°	15.5	15.5	15.5
156.8	156.8	157.9	158.8	160.8	163.3	166.7	170.8	174.8	127.5°	17.9	17.9	17.9
159.3	159.9	162.4	164.2	167.8	171.4	175.7	181.4	187.5	130°	20.4	20.4	20.4
163.8	165.6	168.3	171.2	174.8	180.2	187.5	194.7	202.8	132.5°	22.8	22.8	22.8
171.0	175.1	179.6	183.2	187.5	195.1	203.0	212.0	222.2	135°	25.2	25.2	25.2
186.8	191.3	198.0	204.1	210.3	221.3	231.5	241.8	255.6	137.5°	27.6	27.6	27.6
200.5	207.8	218.3	227.2	235.5	248.8	260.1	277.2	291.9	140°	29.9	29.9	29.9
206.4	218.1	231.5	244.1	259.6	272.7	289.4	309.9	329.1	142.5°	32.1	32.1	32.1
205.0	219.3	236.0	253.1	271.6	292.6	311.8	334.8	359.8	145°	34.0	34.0	34.0
201.9	217.9	237.3	257.8	279.9	306.1	330.2	358.9	390.0	147.5°	35.6	35.6	35.6
198.0	216.8	238.4	262.6	290.3	321.4	352.6	390.0	428.8	150°	37.3	37.3	37.3
192.2	213.6	239.8	269.8	303.9	340.4	381.2	425.9	467.6	152.5°	38.8	38.8	38.8
185.6	209.8	241.4	279.7	322.6	367.9	415.1	460.6	508.2	155°	40.0	40.0	40.0
181.4	208.7	245.4	291.2	341.1	393.6	446.2	496.0	547.9	157.5°	41.1	41.1	41.1
178.9	209.3	249.7	299.8	354.8	412.8	468.5	525.8	580.2	160°	42.2	42.2	42.2
176.6	211.1	253.5	305.2	363.6	425.2	486.1	547.9	608.2	162.5°	43.2	43.2	43.2
170.8	210.5	254.9	306.8	368.2	433.3	498.3	563.5	627.5	165°	44.0	44.0	44.0
160.6	204.1	252.0	305.2	369.5	438.1	506.2	575.0	638.6	167.5°	44.4	44.4	44.4
147.1	191.3	241.6	298.4	364.8	435.8	508.9	582.4	644.9	170°	44.5	44.5	44.5
132.0	171.2	223.3	282.9	349.4	422.1	496.9	575.5	637.7	172.5°	44.9	44.9	44.9
111.2	146.2	198.5	256.5	321.4	393.6	461.5	547.3	610.6	175°	45.5	45.5	45.5
85.1	116.2	161.3	220.4	286.5	349.6	411.2	496.9	567.3	177.5°	45.7	45.7	45.7
58.7	82.8	120.7	172.3	234.1	292.4	353.7	433.8	515.9	180°	45.6	45.6	45.6
38.1	53.7	79.8	119.6	168.5	222.2	273.2	346.5	434.5				
27.1	34.3	48.7	73.8	111.0	152.5	194.2	243.9	327.8				
21.4	25.0	30.0	42.9	65.0	95.0	128.6	159.9	230.1				
17.4	18.9	21.4	26.4	38.3	54.8	75.8	100.8	143.0				
14.0	15.1	16.7	18.7	23.7	31.6	44.0	55.5	81.7				
11.3	12.6	13.1	13.3	15.3	18.0	23.2	31.3	46.7				
8.1	8.6	8.6	8.8	9.3	9.9	13.3	23.0	34.1				
3.2	2.7	2.9	2.3	2.5	2.7	4.3	5.0	7.9				
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				
0.2	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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CATALOG NUMBER: ENC-FXX-LED-E1-SLR-8030-UL

3-8030-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°	146.4	146.4	146.4	146.4
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	148.2	148.2	148.0	148.0
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	152.0	152.7	152.3	152.9
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	157.0	157.4	157.9	158.8
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	162.2	163.8	165.3	166.0
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	168.3	171.2	174.4	176.0
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	178.9	183.4	187.0	189.5
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	192.9	199.0	205.0	209.3
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	210.7	219.5	228.1	233.5
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	233.2	243.6	253.1	263.5
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	264.4	278.8	295.5	304.5
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	308.8	328.4	340.2	360.3
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	351.2	375.4	403.8	431.5
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	387.1	422.5	464.2	506.4
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	424.8	469.6	517.9	572.1
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	469.9	516.3	568.5	627.8
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	510.9	563.9	627.8	682.6
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	556.3	612.7	684.6	748.0
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	600.3	659.1	737.9	807.3
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	638.8	697.9	781.9	854.2
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	669.7	735.6	817.5	887.0
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	693.9	763.6	844.6	909.5
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	706.5	776.9	852.9	919.0
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	708.3	776.0	845.9	910.4
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	691.2	751.2	818.0	885.4
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	652.8	699.7	763.1	829.9
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	603.7	634.3	676.5	741.9
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	555.4	575.7	597.8	646.1
								70°	481.1	498.1	520.2	550.2
								72.5°	374.2	396.6	412.3	441.4
								75°	281.3	294.1	316.9	343.8
								77.5°	197.8	210.9	236.9	267.5
								80°	132.9	141.9	157.9	184.3
								82.5°	81.4	91.8	105.4	128.1
								85°	54.6	70.8	88.2	105.4
								87.5°	23.0	38.8	49.2	51.7
								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: P173449

CATALOG NUMBER: ENC-FXX-LED-E1-SLR-8030-ULG-CWB

G-CWB

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
146.4	146.4	146.4	146.4	146.4	146.4	146.4	112.5°	6.9	6.9	6.9	6.9	6.9
148.6	148.4	148.9	148.9	148.6	148.6	149.3	115°	8.1	8.1	8.1	8.1	8.1
153.4	153.6	154.1	153.6	154.5	153.4	153.6	117.5°	9.6	9.6	9.6	9.6	9.6
159.9	160.2	160.8	160.6	161.3	160.6	159.7	120°	11.3	11.3	11.3	11.3	11.3
168.3	168.7	168.7	169.8	171.0	169.6	168.1	122.5°	13.2	13.2	13.2	13.2	13.2
178.0	179.6	178.9	181.1	182.3	181.4	180.2	125°	15.5	15.5	15.5	15.5	15.5
191.3	194.5	194.0	198.3	199.9	199.2	199.4	127.5°	17.9	17.9	17.9	17.9	17.9
211.1	215.7	216.3	223.1	227.4	226.7	225.6	130°	20.4	20.4	20.4	20.4	20.4
234.1	245.9	248.6	254.4	259.2	261.0	260.8	132.5°	22.8	22.8	22.8	22.8	22.8
273.2	281.7	287.8	298.4	302.7	306.8	305.7	135°	25.2	25.2	25.2	25.2	25.2
317.6	325.5	339.0	352.6	356.9	360.7	365.7	137.5°	27.6	27.6	27.6	27.6	27.6
374.5	386.0	407.4	425.7	436.0	432.9	431.3	140°	29.9	29.9	29.9	29.9	29.9
451.4	480.2	496.0	510.9	517.7	507.8	495.1	142.5°	32.1	32.1	32.1	32.1	32.1
543.4	577.2	587.2	594.4	581.5	568.0	531.0	145°	34.0	34.0	34.0	34.0	34.0
610.9	644.0	664.6	672.2	644.7	604.6	554.5	147.5°	35.6	35.6	35.6	35.6	35.6
671.8	705.4	714.4	717.8	680.8	628.9	580.2	150°	37.3	37.3	37.3	37.3	37.3
736.5	764.7	769.9	768.1	718.9	657.6	612.0	152.5°	38.8	38.8	38.8	38.8	38.8
795.4	824.3	819.5	811.6	755.7	693.7	643.3	155°	40.0	40.0	40.0	40.0	40.0
851.3	872.5	864.0	844.3	790.4	721.4	667.9	157.5°	41.1	41.1	41.1	41.1	41.1
888.8	906.6	897.3	872.5	814.3	740.1	681.5	160°	42.2	42.2	42.2	42.2	42.2
917.2	930.7	925.3	889.4	828.3	751.6	687.5	162.5°	43.2	43.2	43.2	43.2	43.2
931.4	944.7	941.6	892.6	830.1	753.4	684.6	165°	44.0	44.0	44.0	44.0	44.0
936.6	951.7	940.7	880.9	818.2	746.7	674.5	167.5°	44.4	44.4	44.4	44.4	44.4
932.3	939.3	923.0	858.6	793.8	725.7	660.0	170°	44.5	44.5	44.5	44.5	44.5
916.5	911.6	889.2	819.7	759.3	696.6	644.0	172.5°	44.9	44.9	44.9	44.9	44.9
872.3	859.5	841.4	774.9	713.3	650.6	619.2	175°	45.5	45.5	45.5	45.5	45.5
781.2	777.5	769.2	719.8	658.7	598.9	578.8	177.5°	45.7	45.7	45.7	45.7	45.7
664.3	660.7	661.8	628.5	584.2	526.0	526.5	180°	45.6	45.6	45.6	45.6	45.6
569.6	549.7	526.3	490.4	464.7	456.8	482.3						
458.4	447.5	428.4	397.0	367.9	378.1	435.1						
354.4	347.9	361.8	365.4	354.2	347.4	366.8						
290.3	304.5	326.9	355.3	358.0	348.1	311.3						
221.1	258.1	289.0	327.3	323.2	301.8	261.7						
154.8	190.6	219.7	252.0	250.9	231.2	211.4						
118.4	129.7	140.8	174.6	187.7	172.6	150.9						
55.9	56.4	67.9	83.7	89.8	102.4	101.0						
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						
0.5	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: P173449

CATALOG NUMBER: ENC-FXX-LED-E1-SLR-8030-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°	146.4	146.4	146.4	146.4	146.4	146.4
8.1	8.1	8.1	8.1	8.1	8.1	2.5°	149.5	149.3	149.3	149.3	149.5	149.3
9.6	9.6	9.6	9.6	9.6	9.6	5°	154.1	153.6	153.4	153.4	153.2	153.2
11.3	11.3	11.3	11.3	11.3	11.3	7.5°	159.9	159.0	159.0	158.4	158.1	157.4
13.2	13.2	13.2	13.2	13.2	13.2	10°	167.8	166.9	166.7	164.9	164.9	163.3
15.5	15.5	15.5	15.5	15.5	15.5	12.5°	179.3	179.3	179.3	177.1	176.6	173.9
17.9	17.9	17.9	17.9	17.9	17.9	15°	199.2	197.4	199.0	195.1	194.9	191.3
20.4	20.4	20.4	20.4	20.4	20.4	17.5°	226.0	226.0	222.9	221.1	219.9	214.8
22.8	22.8	22.8	22.8	22.8	22.8	20°	261.7	261.9	256.5	251.5	249.3	243.4
25.2	25.2	25.2	25.2	25.2	25.2	22.5°	307.0	302.7	296.0	292.4	288.7	279.1
27.6	27.6	27.6	27.6	27.6	27.6	25°	366.6	364.8	352.8	339.7	334.3	319.7
29.9	29.9	29.9	29.9	29.9	29.9	27.5°	425.0	421.1	402.0	379.6	365.9	345.8
32.1	32.1	32.1	32.1	32.1	32.1	30°	476.4	451.2	428.4	401.5	380.6	355.5
34.0	34.0	34.0	34.0	34.0	34.0	32.5°	503.3	471.5	438.3	416.2	389.8	362.1
35.6	35.6	35.6	35.6	35.6	35.6	35°	524.0	489.9	457.0	428.4	398.6	367.2
37.3	37.3	37.3	37.3	37.3	37.3	37.5°	550.4	514.6	478.2	444.2	407.8	371.1
38.8	38.8	38.8	38.8	38.8	38.8	40°	579.7	538.7	493.8	452.5	411.7	369.7
40.0	40.0	40.0	40.0	40.0	40.0	42.5°	604.1	554.5	501.7	455.2	410.3	364.1
41.1	41.1	41.1	41.1	41.1	41.1	45°	617.6	561.0	502.3	452.3	404.9	357.1
42.2	42.2	42.2	42.2	42.2	42.2	47.5°	624.0	561.2	497.8	445.7	397.7	347.2
43.2	43.2	43.2	43.2	43.2	43.2	50°	623.3	555.6	489.3	436.9	389.6	336.8
44.0	44.0	44.0	44.0	44.0	44.0	52.5°	616.5	546.3	479.4	430.0	382.6	328.0
44.4	44.4	44.4	44.4	44.4	44.4	55°	606.1	536.4	469.4	425.2	376.7	320.8
44.5	44.5	44.5	44.5	44.5	44.5	57.5°	594.4	527.9	462.2	424.3	373.3	319.4
44.9	44.9	44.9	44.9	44.9	44.9	60°	589.2	528.7	466.7	418.0	371.5	322.3
45.5	45.5	45.5	45.5	45.5	45.5	62.5°	585.8	537.3	476.0	422.3	374.5	334.8
45.7	45.7	45.7	45.7	45.7	45.7	65°	572.1	549.3	490.2	437.6	395.7	363.8
45.6	45.6	45.6	45.6	45.6	45.6	67.5°	555.6	552.7	495.8	446.6	419.8	401.8
						70°	538.4	549.1	503.9	470.3	455.4	448.2
						72.5°	510.9	523.1	481.1	461.1	456.6	451.4
						75°	426.1	428.4	396.3	385.3	393.2	381.0
						77.5°	306.3	312.2	291.5	294.4	320.1	293.7
						80°	226.9	203.9	190.8	199.6	224.2	186.6
						82.5°	187.0	151.4	128.3	140.3	149.8	110.1
						85°	143.9	115.5	95.0	76.7	73.1	47.1
						87.5°	113.0	83.5	46.5	26.2	17.6	1.1
						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: P173449

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CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
146.4	112.5°	6.9	6.9	6.9	6.9	6.9	6.9
149.5	115°	8.1	8.1	8.1	8.1	8.1	8.1
153.2	117.5°	9.6	9.6	9.6	9.6	9.6	9.6
157.4	120°	11.3	11.3	11.3	11.3	11.3	11.3
164.0	122.5°	13.2	13.2	13.2	13.2	13.2	13.2
173.5	125°	15.5	15.5	15.5	15.5	15.5	15.5
190.4	127.5°	17.9	17.9	17.9	17.9	17.9	17.9
212.3	130°	20.4	20.4	20.4	20.4	20.4	20.4
239.1	132.5°	22.8	22.8	22.8	22.8	22.8	22.8
269.3	135°	25.2	25.2	25.2	25.2	25.2	25.2
303.9	137.5°	27.6	27.6	27.6	27.6	27.6	27.6
325.1	140°	29.9	29.9	29.9	29.9	29.9	29.9
329.6	142.5°	32.1	32.1	32.1	32.1	32.1	32.1
332.7	145°	34.0	34.0	34.0	34.0	34.0	34.0
333.6	147.5°	35.6	35.6	35.6	35.6	35.6	35.6
332.3	150°	37.3	37.3	37.3	37.3	37.3	37.3
326.9	152.5°	38.8	38.8	38.8	38.8	38.8	38.8
319.9	155°	40.0	40.0	40.0	40.0	40.0	40.0
311.1	157.5°	41.1	41.1	41.1	41.1	41.1	41.1
300.3	160°	42.2	42.2	42.2	42.2	42.2	42.2
290.1	162.5°	43.2	43.2	43.2	43.2	43.2	43.2
282.2	165°	44.0	44.0	44.0	44.0	44.0	44.0
277.2	167.5°	44.4	44.4	44.4	44.4	44.4	44.4
277.9	170°	44.5	44.5	44.5	44.5	44.5	44.5
284.9	172.5°	44.9	44.9	44.9	44.9	44.9	44.9
302.5	175°	45.5	45.5	45.5	45.5	45.5	45.5
335.9	177.5°	45.7	45.7	45.7	45.7	45.7	45.7
368.6	180°	45.6	45.6	45.6	45.6	45.6	45.6
400.2							
379.4							
289.6							
208.4							
120.9							
75.6							
32.7							
1.1							
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)