

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: P173568

Luminaire Tested: **ENT-EXX-LED-E1-SLR-8030-ULG-BBB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173568
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-EXX-LED-E1-SLR-8030-ULG-BBB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1432.7 lumens
Efficiency: N/A
Efficacy: 260.5 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

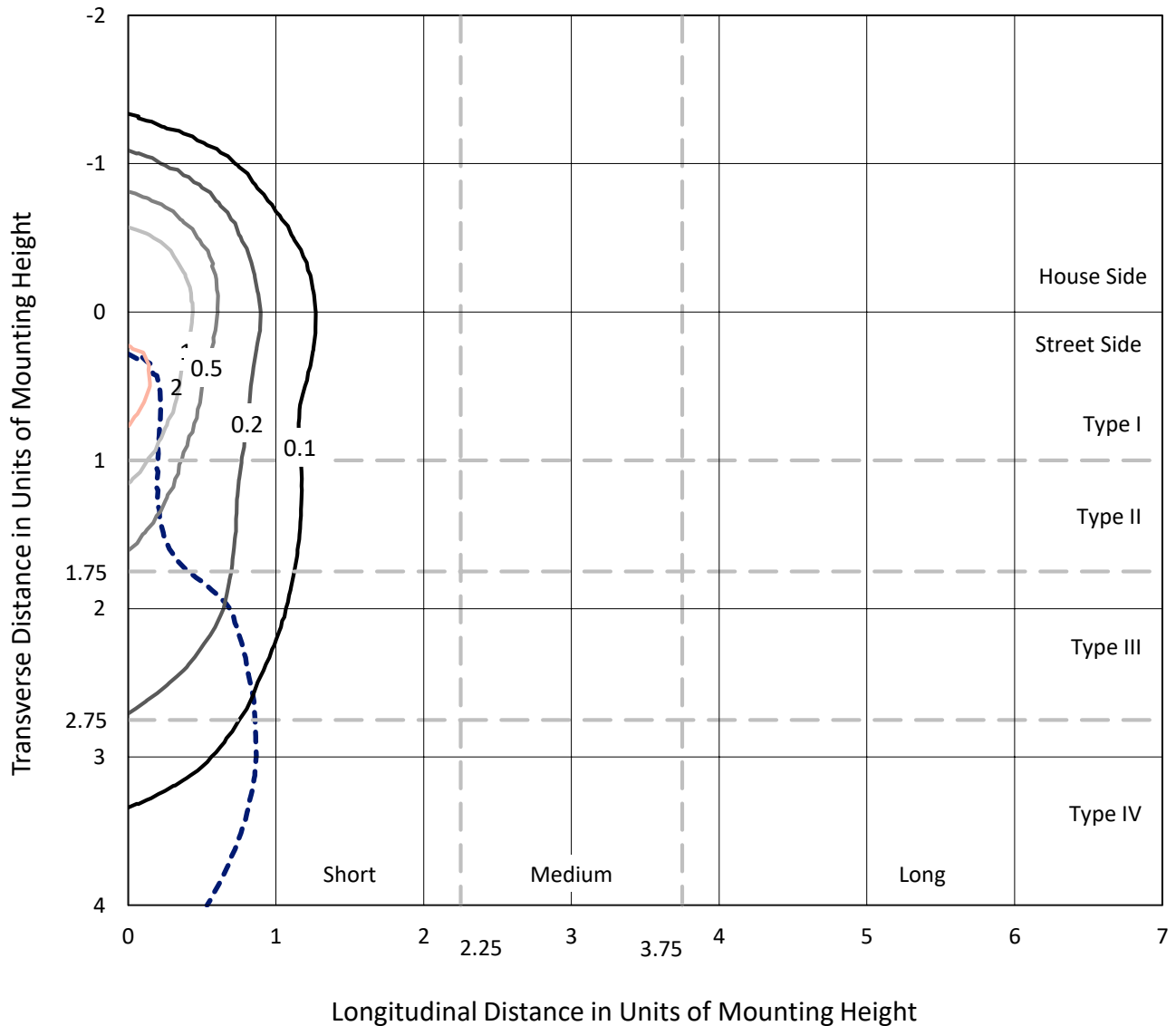


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Iso-Footcandle Lines of Horizontal Illumination

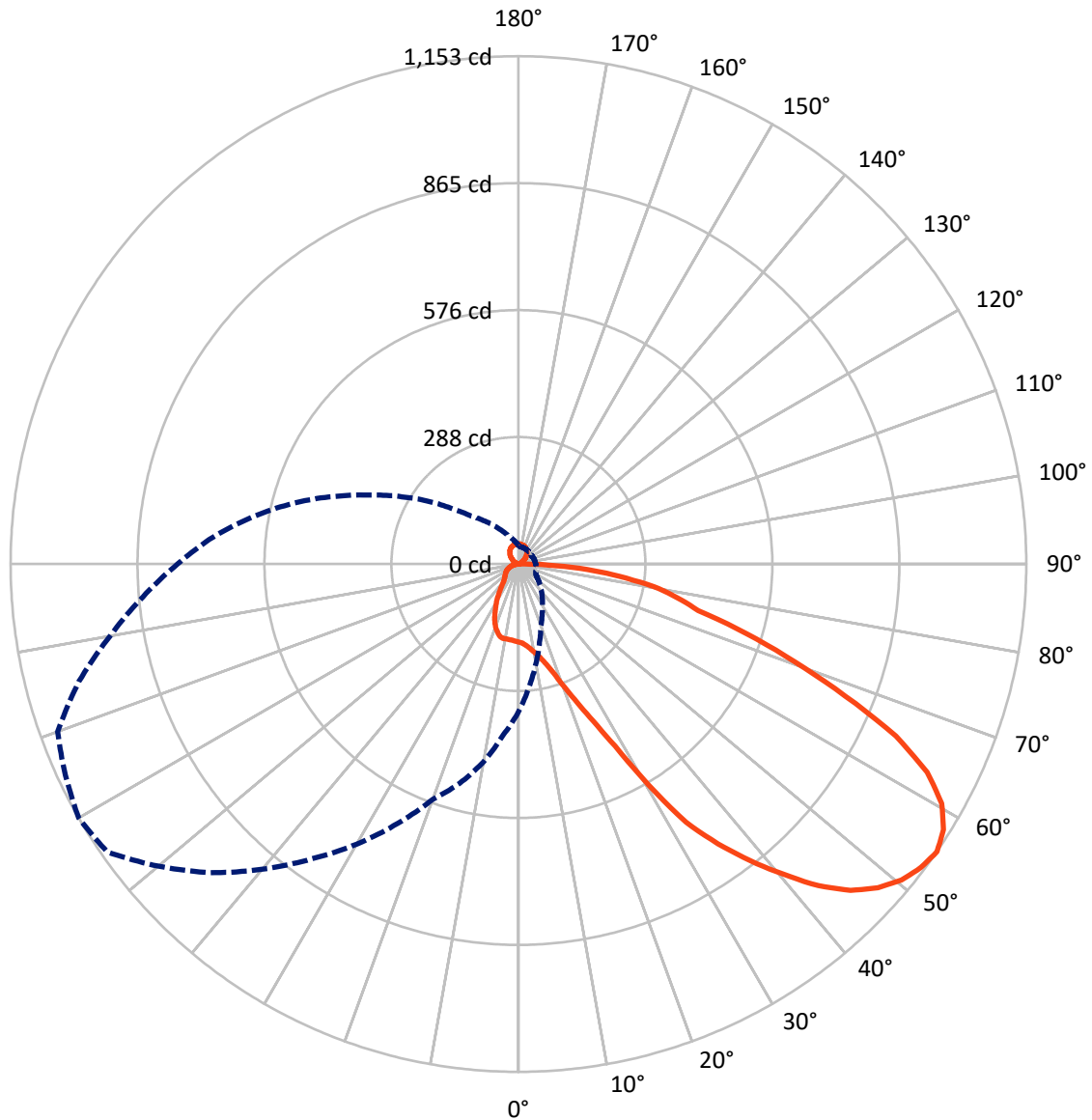
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 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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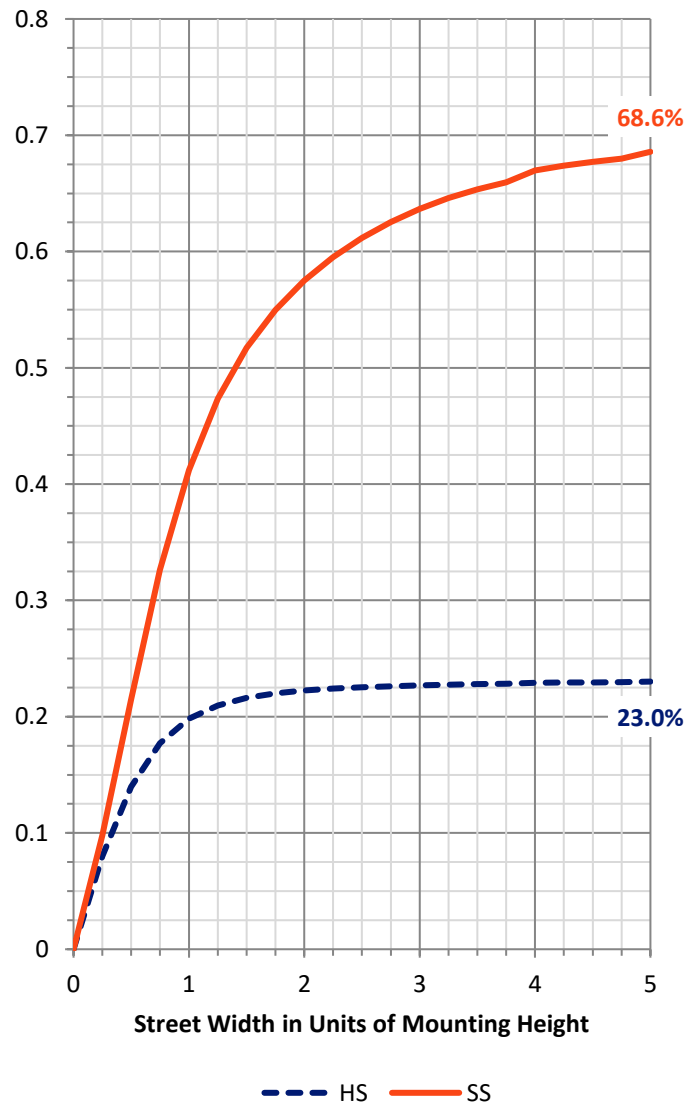
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	332.6	51.1	383.6
	% Fixture	23.2	3.6	26.8
Street Side	Lumens	998.0	51.1	1049.0
	% Fixture	69.7	3.6	73.2
Total	Lumens	1330.5	102.1	1432.7
	% Fixture	92.9	7.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	1.2
10°-20°	57.4	4.0
20°-30°	111.4	7.8
30°-40°	175.1	12.2
40°-50°	234.1	16.3
50°-60°	274.6	19.2
60°-70°	260.5	18.2
70°-80°	157.3	11.0
80°-90°	42.6	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	1.4
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°	1330.5	92.9
0°-180°	1432.7	100.0



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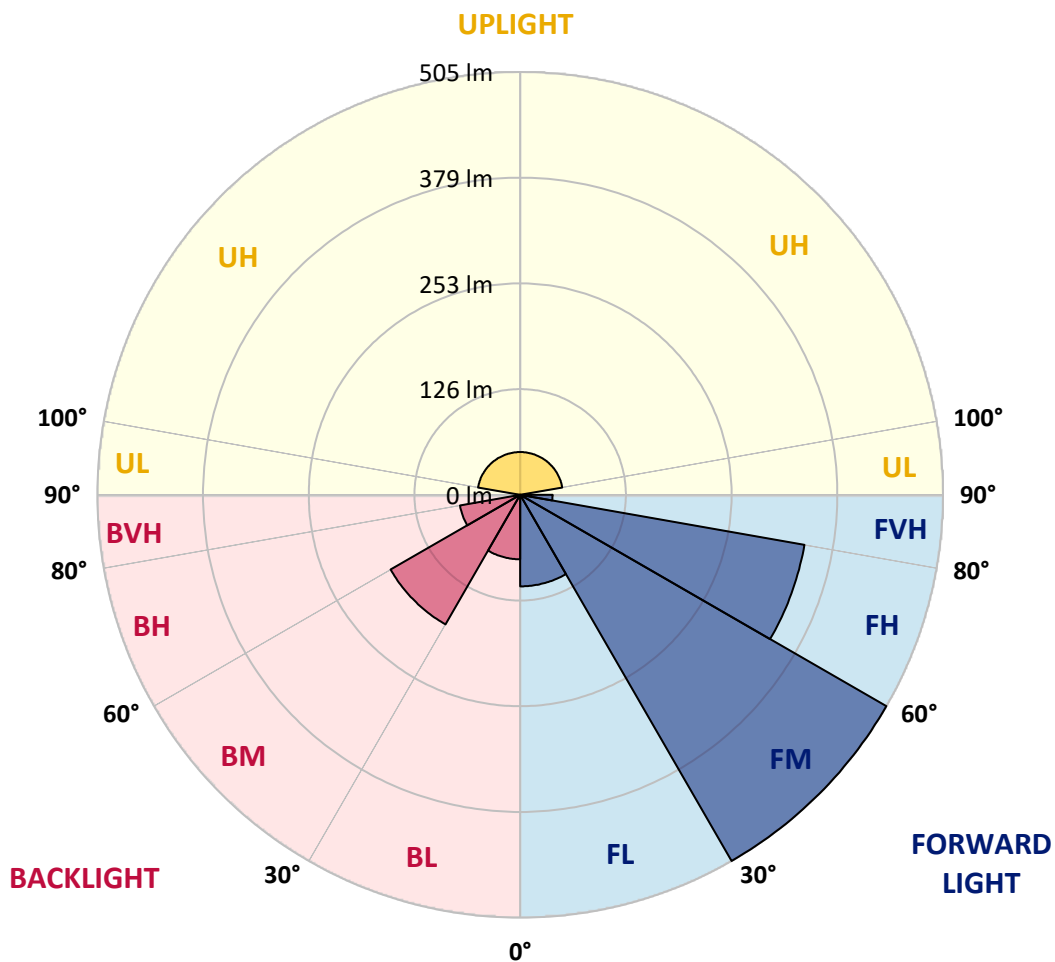
CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-ULG-BBB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	109.3	7.6			
FM	(30°-60°)	505.1	35.3			
FH	(60°-80°)	344.8	24.1			G0/660
FVH	(80°-90°)	38.7	2.7			G1/100
BL	(0°-30°)	77.0	5.4	B0/110		
BM	(30°-60°)	178.7	12.5	B0/220		
BH	(60°-80°)	73.0	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°	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4
2.5°	181.2	182.5	180.9	181.2	180.6	180.1	180.3	180.1	179.5	179.5	179.0
5°	185.5	185.8	184.7	184.4	183.9	183.1	183.3	182.5	182.0	181.4	180.3
7.5°	190.7	190.5	189.1	188.3	188.0	186.6	186.4	185.3	184.4	183.6	182.2
10°	198.7	196.5	194.8	193.4	192.9	191.3	189.9	189.4	188.0	186.1	185.0
12.5°	210.1	208.8	205.5	202.7	201.1	198.9	197.0	195.6	193.4	190.7	189.4
15°	230.6	226.2	222.4	218.3	215.0	211.5	206.9	203.3	199.5	194.8	191.3
17.5°	257.1	251.7	245.6	239.1	232.3	224.6	215.6	208.8	201.1	193.2	187.7
20°	289.6	279.5	271.1	258.5	245.9	233.9	219.7	207.7	196.8	186.4	178.4
22.5°	326.3	311.0	293.7	274.6	254.4	235.8	215.9	199.5	183.6	170.8	161.8
25°	368.1	344.0	317.8	288.8	259.9	232.3	207.7	187.2	170.2	154.9	144.8
27.5°	393.8	361.0	329.6	295.1	262.1	230.1	200.0	176.3	156.9	140.4	128.7
30°	399.2	366.1	329.3	291.8	257.7	222.7	189.9	163.4	141.8	124.6	112.9
32.5°	403.1	364.8	323.8	282.3	245.1	208.2	174.9	148.6	125.7	108.8	95.1
35°	404.2	359.6	313.4	267.2	228.2	190.5	157.1	129.5	109.6	92.9	80.6
37.5°	402.5	351.1	299.5	251.7	209.9	170.5	137.7	113.7	96.7	80.6	69.7
40°	395.9	340.5	286.9	236.6	191.3	150.5	121.3	100.6	86.1	73.8	65.3
42.5°	387.5	328.2	273.0	219.2	173.2	134.7	108.2	91.5	79.3	70.5	63.4
45°	376.8	315.3	258.5	203.6	157.9	122.7	100.6	86.6	77.1	69.4	62.8
47.5°	363.7	301.7	244.6	191.8	147.6	116.7	98.9	86.6	77.1	68.9	61.7
50°	351.4	289.4	233.9	184.4	142.9	116.9	100.6	87.7	76.8	67.8	59.8
52.5°	341.8	282.0	229.5	181.7	143.5	119.7	103.8	89.4	77.6	67.8	59.3
55°	335.8	279.0	229.0	184.2	149.2	127.1	109.0	94.3	81.4	70.0	60.1
57.5°	336.6	282.3	235.5	194.3	162.3	139.9	119.4	103.0	86.9	72.7	60.4
60°	345.1	293.2	251.4	218.1	184.2	157.1	132.5	110.7	89.4	71.9	58.5
62.5°	366.4	318.9	284.7	250.6	211.2	174.1	140.4	112.0	86.6	67.8	53.8
65°	406.9	365.1	332.3	289.6	233.6	181.2	139.6	107.9	81.4	61.2	47.6
67.5°	446.5	402.2	356.0	291.8	228.2	176.0	130.6	97.8	72.1	52.4	42.1
70°	484.7	427.4	368.1	289.1	212.3	151.4	109.0	81.7	57.4	43.7	36.1
72.5°	459.6	393.5	332.8	254.9	182.5	124.3	86.9	59.3	44.0	36.1	31.1
75°	350.9	305.0	252.2	195.6	134.7	87.7	57.9	42.1	33.9	28.4	25.4
77.5°	252.5	218.3	175.2	128.4	84.1	55.5	39.3	30.0	25.1	21.3	19.7
80°	146.5	125.7	98.1	70.8	48.1	34.7	26.2	21.3	18.3	15.6	15.0
82.5°	91.5	73.2	51.9	35.0	24.6	19.1	15.3	13.1	10.9	9.6	8.2
85°	39.6	28.4	16.1	9.0	6.8	5.2	4.1	3.6	3.0	2.7	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°	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4
2.5°	179.0	178.4	178.2	178.2	177.6	177.6	177.1	177.4	177.1	176.5	176.3
5°	180.1	179.3	178.7	178.2	177.4	177.1	176.5	176.5	175.7	174.9	174.6
7.5°	181.4	180.3	179.5	178.4	177.4	176.8	175.7	175.2	174.3	173.5	173.2
10°	184.2	182.2	180.9	179.5	177.6	176.5	174.9	174.1	173.2	172.1	171.6
12.5°	187.2	184.7	182.8	179.5	177.6	175.7	174.1	172.4	170.8	169.7	169.4
15°	187.2	184.2	180.1	177.1	174.3	171.6	170.0	168.3	166.4	165.6	165.3
17.5°	182.5	177.4	173.5	170.2	167.8	165.6	164.0	163.1	161.5	159.8	159.3
20°	171.9	165.9	161.5	157.9	155.2	153.0	152.5	151.7	150.8	150.8	151.1
22.5°	154.4	147.8	144.0	140.2	137.2	136.1	136.4	137.2	137.4	137.2	139.1
25°	136.9	130.6	125.4	121.9	118.3	119.1	118.0	120.0	120.8	121.1	123.2
27.5°	120.0	113.1	107.7	104.6	103.0	101.9	101.1	103.6	104.1	106.0	107.9
30°	101.9	95.6	89.4	86.9	85.5	84.7	85.0	87.2	88.5	91.3	92.9
32.5°	85.2	77.6	72.9	69.7	68.3	68.1	68.3	70.0	71.6	75.1	77.6
35°	71.0	63.7	59.8	57.9	56.0	55.2	56.0	56.6	57.1	60.1	63.1
37.5°	62.8	57.7	54.7	52.7	51.4	50.5	50.5	50.3	50.5	51.1	52.4
40°	59.3	55.5	52.7	50.8	49.7	49.2	48.9	48.6	48.4	48.4	48.4
42.5°	57.9	53.6	50.8	49.2	48.6	48.6	48.6	48.4	47.8	47.3	47.0
45°	56.9	52.2	49.2	47.8	47.8	47.8	48.1	47.8	47.3	46.5	45.6
47.5°	54.9	50.3	47.6	46.5	46.5	46.5	46.7	46.5	45.9	45.4	44.5
50°	52.7	47.8	45.1	44.3	44.0	44.0	43.7	43.4	43.2	42.6	41.8
52.5°	51.4	46.2	43.7	43.2	42.6	42.3	41.8	41.5	41.0	40.7	39.9
55°	51.1	45.1	42.9	42.3	41.8	41.0	39.9	39.3	38.3	38.0	37.4
57.5°	50.3	44.0	41.5	40.2	38.8	38.0	36.9	36.4	35.8	35.3	34.7
60°	47.6	40.7	37.7	36.9	36.1	35.8	35.3	34.7	33.9	33.1	32.0
62.5°	42.3	36.6	34.7	34.4	34.2	33.6	33.1	32.2	31.7	30.6	29.5
65°	38.3	34.4	33.3	32.8	32.5	31.7	31.1	30.6	29.8	29.0	27.9
67.5°	34.7	32.0	31.4	30.6	30.3	29.8	29.0	28.4	27.6	26.8	25.7
70°	31.4	29.2	29.0	28.4	27.9	27.6	26.5	25.7	25.4	24.3	23.5
72.5°	27.9	26.5	26.0	25.4	24.9	24.6	24.1	23.5	23.0	21.9	20.8
75°	23.2	22.7	22.4	21.9	21.6	21.0	20.2	19.4	19.1	18.3	17.5
77.5°	18.6	18.0	18.0	17.5	16.7	15.9	15.0	13.9	13.9	13.9	13.4
80°	13.1	12.6	11.8	11.5	10.9	10.4	9.6	9.0	8.5	8.5	8.5
82.5°	7.6	7.4	6.8	6.0	5.5	5.2	4.4	3.8	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: P173568

CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-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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CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-ULG-BBB

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4
2.5°	176.3	176.0	175.4	174.3	174.1	173.8	174.1	174.1	173.8	174.1	174.3
5°	174.6	174.3	173.5	173.0	172.4	172.4	174.1	174.1	173.2	173.5	174.6
7.5°	173.2	173.2	172.7	172.4	172.7	173.5	174.9	176.0	175.7	177.4	177.9
10°	171.6	171.9	172.1	173.2	174.9	176.3	178.4	180.3	180.9	182.2	183.1
12.5°	170.0	171.0	172.4	174.6	176.8	179.0	181.4	183.6	183.9	185.3	186.4
15°	165.9	167.5	169.4	171.9	175.2	177.6	181.2	182.8	183.3	184.2	185.5
17.5°	159.6	160.4	161.8	164.5	168.1	171.3	175.4	178.2	179.8	180.9	181.4
20°	151.1	152.8	153.6	156.0	157.9	160.4	165.9	169.4	172.7	174.3	176.0
22.5°	139.3	141.3	143.2	145.6	146.7	148.4	153.6	159.0	164.0	167.2	169.1
25°	124.6	126.8	129.5	132.5	133.9	135.5	141.5	147.0	153.0	158.8	161.5
27.5°	109.9	112.6	115.3	118.9	121.1	123.0	128.1	133.4	139.6	145.1	147.8
30°	95.6	99.5	101.9	106.0	107.9	109.9	114.5	120.2	124.6	130.9	134.4
32.5°	80.9	83.6	88.3	92.9	95.1	97.0	101.4	106.3	110.1	116.4	121.6
35°	67.5	70.0	74.9	79.5	80.9	83.9	88.3	92.6	96.2	101.9	106.8
37.5°	54.9	59.0	62.8	66.4	69.4	71.6	75.7	79.5	81.4	86.9	92.1
40°	48.9	50.8	53.6	56.9	58.8	60.9	63.9	67.2	69.4	73.2	77.6
42.5°	46.7	46.7	47.6	49.2	51.6	52.7	55.5	57.1	60.1	61.7	65.6
45°	45.1	44.5	44.8	44.8	45.6	46.5	48.6	50.3	52.2	53.6	56.0
47.5°	43.7	42.6	42.3	41.8	41.5	42.1	43.7	45.1	45.9	47.0	47.8
50°	40.7	39.9	39.1	38.5	38.3	38.8	40.2	41.2	41.5	42.1	42.6
52.5°	39.1	38.0	37.2	36.4	36.4	36.9	38.0	38.8	39.1	39.3	39.9
55°	36.9	36.4	35.8	35.0	34.7	35.5	36.4	37.2	37.7	37.7	38.3
57.5°	34.2	33.6	34.2	33.9	33.6	34.2	35.3	36.1	36.4	36.4	36.6
60°	31.4	31.1	31.1	31.7	32.2	33.1	33.9	35.0	34.7	34.2	34.4
62.5°	29.0	28.7	29.0	29.8	30.6	31.4	32.5	33.3	32.5	32.0	32.0
65°	27.3	27.1	27.3	27.6	27.9	28.7	30.0	30.3	29.8	29.8	29.8
67.5°	25.1	24.9	24.6	24.9	25.1	25.4	26.5	26.8	26.8	26.8	26.8
70°	22.4	22.1	21.9	21.9	21.9	22.1	22.4	23.0	23.5	24.1	24.3
72.5°	19.4	18.8	18.8	18.8	18.3	18.6	18.8	19.9	20.5	21.0	21.6
75°	16.4	15.9	15.9	15.3	15.6	15.9	15.9	16.4	16.9	17.8	18.3
77.5°	12.9	12.9	12.9	12.6	12.6	12.9	13.1	13.1	13.7	14.5	15.3
80°	8.2	8.2	8.7	9.0	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	5.7	6.6	7.1	7.9	7.9
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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	
177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	112.5°	6.9
174.6	175.4	175.2	174.9	175.2	175.7	175.4	175.7	176.0	176.5	176.3	115°	8.1
174.9	175.7	176.0	176.0	176.5	177.4	177.4	177.6	177.9	178.4	178.4	117.5°	9.6
178.7	180.6	180.6	180.9	181.7	182.5	182.8	183.1	182.8	182.8	182.8	120°	11.3
184.4	186.6	186.9	188.3	189.4	189.1	189.1	189.4	188.8	188.3	187.5	122.5°	13.2
187.5	189.4	189.9	191.3	192.9	193.2	194.0	194.5	194.0	192.6	191.3	125°	15.5
186.6	188.3	189.4	191.0	192.9	194.0	195.6	196.2	195.9	194.3	192.6	127.5°	17.9
183.1	185.0	186.4	188.6	190.7	192.4	194.0	194.8	194.8	193.4	192.4	130°	20.4
177.4	179.5	181.4	183.9	186.6	188.6	190.5	191.0	191.0	190.5	191.3	132.5°	22.8
171.3	173.8	176.0	178.4	182.0	183.9	186.1	187.7	188.6	189.6	193.2	135°	25.2
163.7	164.8	167.5	170.2	175.2	178.4	183.1	187.5	191.8	196.8	203.8	137.5°	27.6
150.3	152.2	155.5	159.3	164.2	170.2	178.7	187.2	195.1	202.5	211.2	140°	29.9
139.1	142.6	146.2	150.5	155.8	161.5	171.3	182.2	191.8	200.6	210.1	142.5°	32.1
127.1	131.4	136.1	141.8	146.7	151.9	160.1	172.1	183.6	193.4	203.6	145°	34.0
113.1	117.8	122.4	128.4	133.6	140.2	147.6	159.3	172.4	183.6	195.6	147.5°	35.6
98.1	102.2	107.4	112.9	118.9	126.5	134.4	145.4	159.0	171.0	184.7	150°	37.3
83.9	88.3	93.4	99.5	105.5	113.7	122.7	133.1	145.6	158.5	173.0	152.5°	38.8
70.5	76.2	81.7	87.7	94.0	101.7	111.2	122.4	135.0	148.6	164.0	155°	40.0
59.3	63.7	69.4	74.3	81.2	88.5	98.4	111.0	125.4	139.9	156.0	157.5°	41.1
49.5	52.2	57.1	63.1	69.4	77.1	85.2	97.8	112.6	128.4	146.5	160°	42.2
43.4	44.8	48.4	53.8	59.8	67.5	74.6	85.5	100.3	115.9	134.4	162.5°	43.2
40.4	41.0	42.9	47.0	52.7	59.6	67.2	76.5	89.6	104.9	122.7	165°	44.0
38.8	39.1	39.6	42.6	47.6	53.8	61.5	68.9	80.6	95.1	112.3	167.5°	44.4
36.9	37.2	37.4	39.1	42.6	48.1	54.7	60.7	71.3	84.1	100.6	170°	44.5
35.0	35.5	36.1	36.6	39.1	42.6	47.6	52.7	60.1	71.3	84.7	172.5°	44.9
32.5	33.1	33.9	34.4	35.3	37.4	40.4	43.7	47.6	55.5	66.4	175°	45.5
30.3	30.9	31.1	31.4	32.0	32.5	33.6	34.4	36.4	41.0	48.6	177.5°	45.7
27.3	27.9	27.9	28.1	28.4	28.4	29.0	29.2	29.8	31.1	34.4	180°	45.6
24.9	25.1	25.4	25.7	25.7	25.7	25.4	25.7	25.4	25.4	26.8		
21.9	22.1	22.4	22.7	23.0	23.2	23.5	23.5	23.2	22.7	22.7		
18.6	18.6	19.1	19.4	19.7	20.5	21.0	20.5	20.5	20.2	20.2		
15.6	16.1	16.4	16.4	16.9	17.8	18.3	18.0	17.2	17.2	17.5		
12.0	12.3	12.6	12.9	13.1	13.9	14.8	15.0	14.5	14.8	14.8		
7.9	8.2	8.7	9.0	9.3	10.1	10.9	11.8	11.5	12.0	11.5		
3.6	4.1	4.4	4.4	5.2	6.0	7.1	7.9	9.0	9.3	8.5		
0.0	0.3	0.3	0.3	1.1	1.9	3.6	5.5	7.4	5.7	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		

'173568
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REPORT NUMBER: P173568
 CATALOG NUMBER: ENT-EXX-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°	177.4	177.4
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	176.3	176.5
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	178.7	178.7
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	182.2	182.2
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	186.9	186.1
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	189.6	188.3
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	191.3	189.9
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	191.8	191.8
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	193.2	195.4
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	197.8	203.3
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	211.5	219.2
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	222.2	232.3
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	223.0	235.5
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	218.1	231.7
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	210.7	226.2
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	201.7	219.2
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	191.3	209.3
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	181.7	200.3
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	174.9	194.5
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	167.5	188.6
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	155.8	180.6
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	143.2	168.1
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	131.7	155.5
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	119.4	143.5
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	103.3	127.3
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	82.5	105.2
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	59.3	78.4
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	40.2	53.3
										70°	29.2	36.4
										72.5°	23.8	27.3
										75°	21.0	23.0
										77.5°	18.6	19.7
										80°	14.8	15.9
										82.5°	11.5	12.6
										85°	8.5	9.3
										87.5°	3.8	3.8
										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: P173568

CATALOG NUMBER: ENT-EXX-LED-E1-SLF

LED-E1-SLR-8030-ULG-BBB

<u>tinued):</u>										<u>CANDELA DISTRIBUTION (continued):</u>		
230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	177.4	112.5°	6.9	6.9	6.9
176.8	177.1	177.1	177.6	177.9	178.4	178.7	178.7	178.7	115°	8.1	8.1	8.1
179.3	179.5	179.8	180.6	180.9	181.7	182.5	182.8	183.6	117.5°	9.6	9.6	9.6
182.2	183.1	183.3	183.9	184.4	185.8	186.9	187.5	188.3	120°	11.3	11.3	11.3
185.8	186.1	186.1	186.6	188.0	188.8	190.2	192.6	194.3	122.5°	13.2	13.2	13.2
188.3	187.5	188.0	188.6	189.9	191.8	194.0	197.6	200.8	125°	15.5	15.5	15.5
189.9	189.9	191.3	192.4	194.8	197.8	201.9	206.9	211.8	127.5°	17.9	17.9	17.9
192.9	193.7	196.8	198.9	203.3	207.7	212.9	219.7	227.1	130°	20.4	20.4	20.4
198.4	200.6	203.8	207.4	211.8	218.3	227.1	235.8	245.6	132.5°	22.8	22.8	22.8
207.1	212.0	217.5	221.9	227.1	236.4	245.9	256.9	269.1	135°	25.2	25.2	25.2
226.2	231.7	239.9	247.3	254.7	268.1	280.3	292.9	309.6	137.5°	27.6	27.6	27.6
242.9	251.7	264.5	275.2	285.3	301.4	315.1	335.8	353.6	140°	29.9	29.9	29.9
250.0	264.2	280.3	295.7	314.5	330.4	350.6	375.4	398.7	142.5°	32.1	32.1	32.1
248.4	265.6	285.8	306.6	329.0	354.4	377.6	405.5	435.8	145°	34.0	34.0	34.0
244.6	264.0	287.5	312.3	339.1	370.8	400.0	434.7	472.5	147.5°	35.6	35.6	35.6
239.9	262.6	288.8	318.1	351.7	389.4	427.1	472.5	519.4	150°	37.3	37.3	37.3
232.8	258.8	290.5	326.8	368.1	412.3	461.8	515.9	566.5	152.5°	38.8	38.8	38.8
224.9	254.1	292.4	338.8	390.7	445.7	502.8	558.0	615.6	155°	40.0	40.0	40.0
219.7	252.8	297.3	352.8	413.2	476.8	540.5	600.9	663.7	157.5°	41.1	41.1	41.1
216.7	253.6	302.5	363.2	429.8	500.1	567.6	636.9	702.8	160°	42.2	42.2	42.2
213.9	255.8	307.1	369.7	440.5	515.1	588.9	663.7	736.7	162.5°	43.2	43.2	43.2
206.9	254.9	308.8	371.6	446.0	524.9	603.6	682.6	760.2	165°	44.0	44.0	44.0
194.5	247.3	305.2	369.7	447.6	530.6	613.2	696.5	773.6	167.5°	44.4	44.4	44.4
178.2	231.7	292.6	361.5	441.8	527.9	616.4	705.5	781.2	170°	44.5	44.5	44.5
159.8	207.4	270.5	342.7	423.3	511.3	602.0	697.1	772.5	172.5°	44.9	44.9	44.9
134.7	177.1	240.5	310.7	389.4	476.8	559.1	662.9	739.7	175°	45.5	45.5	45.5
103.0	140.7	195.4	267.0	347.0	423.5	498.1	602.0	687.2	177.5°	45.7	45.7	45.7
71.0	100.3	146.2	208.8	283.6	354.1	428.5	525.5	624.9	180°	45.6	45.6	45.6
46.2	65.0	96.7	144.8	204.1	269.1	330.9	419.7	526.3				
32.8	41.5	59.0	89.4	134.4	184.7	235.3	295.4	397.0				
26.0	30.3	36.4	51.9	78.7	115.0	155.8	193.7	278.7				
21.0	23.0	26.0	32.0	46.5	66.4	91.8	122.2	173.2				
16.9	18.3	20.2	22.7	28.7	38.3	53.3	67.2	98.9				
13.7	15.3	15.9	16.1	18.6	21.9	28.1	38.0	56.6				
9.8	10.4	10.4	10.7	11.2	12.0	16.1	27.9	41.2				
3.8	3.3	3.6	2.7	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: P173568

CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-UL

3-8030-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°	177.4	177.4	177.4	177.4
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	179.5	179.5	179.3	179.3
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	184.2	185.0	184.4	185.3
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	190.2	190.7	191.3	192.4
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	196.5	198.4	200.3	201.1
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	203.8	207.4	211.2	213.1
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	216.7	222.2	226.5	229.5
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	233.6	241.0	248.4	253.6
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	255.2	265.9	276.3	282.8
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	282.5	295.1	306.6	319.2
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	320.3	337.7	358.0	368.9
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	374.1	397.9	412.1	436.4
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	425.5	454.7	489.1	522.7
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	468.9	511.8	562.3	613.5
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	514.5	568.9	627.4	693.0
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	569.2	625.5	688.6	760.5
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	618.9	683.1	760.5	826.9
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	673.8	742.2	829.3	906.1
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	727.1	798.4	893.8	978.0
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	773.9	845.4	947.1	1034.8
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	811.3	891.1	990.3	1074.4
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	840.5	925.0	1023.1	1101.8
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	855.8	941.1	1033.2	1113.2
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	858.0	940.0	1024.7	1102.8
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	837.2	909.9	990.8	1072.5
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	790.8	847.6	924.4	1005.3
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	731.2	768.4	819.5	898.7
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	672.7	697.4	724.1	782.6
								70°	582.8	603.3	630.1	666.5
								72.5°	453.3	480.4	499.5	534.8
								75°	340.8	356.3	383.9	416.4
								77.5°	239.6	255.5	286.9	324.1
								80°	160.9	171.9	191.3	223.2
								82.5°	98.7	111.2	127.6	155.2
								85°	66.1	85.8	106.8	127.6
								87.5°	27.9	47.0	59.6	62.6
								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: P173568

CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-ULG-BBB

G-BBB

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
177.4	177.4	177.4	177.4	177.4	177.4	177.4	112.5°	6.9	6.9	6.9	6.9	6.9
180.1	179.8	180.3	180.3	180.1	180.1	180.9	115°	8.1	8.1	8.1	8.1	8.1
185.8	186.1	186.6	186.1	187.2	185.8	186.1	117.5°	9.6	9.6	9.6	9.6	9.6
193.7	194.0	194.8	194.5	195.4	194.5	193.4	120°	11.3	11.3	11.3	11.3	11.3
203.8	204.4	204.4	205.8	207.1	205.5	203.6	122.5°	13.2	13.2	13.2	13.2	13.2
215.6	217.5	216.7	219.4	220.8	219.7	218.3	125°	15.5	15.5	15.5	15.5	15.5
231.7	235.5	235.0	240.2	242.1	241.3	241.6	127.5°	17.9	17.9	17.9	17.9	17.9
255.8	261.2	262.1	270.2	275.4	274.6	273.3	130°	20.4	20.4	20.4	20.4	20.4
283.6	297.9	301.1	308.2	314.0	316.2	315.9	132.5°	22.8	22.8	22.8	22.8	22.8
330.9	341.3	348.7	361.5	366.7	371.6	370.3	135°	25.2	25.2	25.2	25.2	25.2
384.7	394.3	410.7	427.1	432.3	436.9	442.9	137.5°	27.6	27.6	27.6	27.6	27.6
453.6	467.5	493.5	515.6	528.2	524.4	522.5	140°	29.9	29.9	29.9	29.9	29.9
546.8	581.8	600.9	618.9	627.1	615.1	599.8	142.5°	32.1	32.1	32.1	32.1	32.1
658.3	699.3	711.3	720.0	704.4	688.1	643.3	145°	34.0	34.0	34.0	34.0	34.0
740.0	780.1	805.0	814.3	780.9	732.3	671.6	147.5°	35.6	35.6	35.6	35.6	35.6
813.7	854.5	865.4	869.5	824.7	761.8	702.8	150°	37.3	37.3	37.3	37.3	37.3
892.2	926.3	932.6	930.4	870.9	796.5	741.3	152.5°	38.8	38.8	38.8	38.8	38.8
963.5	998.5	992.7	983.2	915.4	840.3	779.3	155°	40.0	40.0	40.0	40.0	40.0
1031.2	1057.0	1046.6	1022.8	957.5	873.9	809.1	157.5°	41.1	41.1	41.1	41.1	41.1
1076.6	1098.2	1087.0	1057.0	986.4	896.5	825.5	160°	42.2	42.2	42.2	42.2	42.2
1111.1	1127.4	1120.9	1077.4	1003.4	910.5	832.9	162.5°	43.2	43.2	43.2	43.2	43.2
1128.2	1144.4	1140.5	1081.3	1005.6	912.7	829.3	165°	44.0	44.0	44.0	44.0	44.0
1134.6	1152.9	1139.4	1067.1	991.1	904.5	817.0	167.5°	44.4	44.4	44.4	44.4	44.4
1129.3	1137.8	1118.1	1040.0	961.6	879.0	799.5	170°	44.5	44.5	44.5	44.5	44.5
1110.2	1104.2	1077.2	993.0	919.8	843.8	780.1	172.5°	44.9	44.9	44.9	44.9	44.9
1056.7	1041.1	1019.2	938.6	864.0	788.1	750.1	175°	45.5	45.5	45.5	45.5	45.5
946.3	941.9	931.8	872.0	797.9	725.5	701.2	177.5°	45.7	45.7	45.7	45.7	45.7
804.7	800.3	801.7	761.3	707.7	637.2	637.8	180°	45.6	45.6	45.6	45.6	45.6
690.0	665.9	637.5	594.0	562.9	553.3	584.2						
555.3	542.1	518.9	480.9	445.7	458.0	527.1						
429.3	421.3	438.3	442.7	429.0	420.8	444.3						
351.7	368.9	395.9	430.4	433.6	421.6	377.1						
267.8	312.6	350.1	396.5	391.6	365.6	317.0						
187.5	230.9	266.1	305.2	303.9	280.1	256.0						
143.5	157.1	170.5	211.5	227.3	209.1	182.8						
67.8	68.3	82.2	101.4	108.8	124.1	122.4						
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						



REPORT NUMBER: P173568

CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-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°	177.4	177.4	177.4	177.4	177.4	177.4
8.1	8.1	8.1	8.1	8.1	8.1	2.5°	181.2	180.9	180.9	180.9	181.2	180.9
9.6	9.6	9.6	9.6	9.6	9.6	5°	186.6	186.1	185.8	185.8	185.5	185.5
11.3	11.3	11.3	11.3	11.3	11.3	7.5°	193.7	192.6	192.6	191.8	191.5	190.7
13.2	13.2	13.2	13.2	13.2	13.2	10°	203.3	202.2	201.9	199.8	199.8	197.8
15.5	15.5	15.5	15.5	15.5	15.5	12.5°	217.2	217.2	217.2	214.5	213.9	210.7
17.9	17.9	17.9	17.9	17.9	17.9	15°	241.3	239.1	241.0	236.4	236.1	231.7
20.4	20.4	20.4	20.4	20.4	20.4	17.5°	273.8	273.8	270.0	267.8	266.4	260.1
22.8	22.8	22.8	22.8	22.8	22.8	20°	317.0	317.3	310.7	304.7	301.9	294.9
25.2	25.2	25.2	25.2	25.2	25.2	22.5°	371.9	366.7	358.5	354.1	349.8	338.0
27.6	27.6	27.6	27.6	27.6	27.6	25°	444.0	441.8	427.4	411.5	405.0	387.2
29.9	29.9	29.9	29.9	29.9	29.9	27.5°	514.8	510.2	486.9	459.9	443.2	418.9
32.1	32.1	32.1	32.1	32.1	32.1	30°	577.1	546.5	518.9	486.4	461.0	430.6
34.0	34.0	34.0	34.0	34.0	34.0	32.5°	609.6	571.1	530.9	504.2	472.2	438.6
35.6	35.6	35.6	35.6	35.6	35.6	35°	634.8	593.5	553.6	518.9	482.8	444.8
37.3	37.3	37.3	37.3	37.3	37.3	37.5°	666.7	623.3	579.3	538.0	494.0	449.5
38.8	38.8	38.8	38.8	38.8	38.8	40°	702.3	652.5	598.2	548.1	498.7	447.9
40.0	40.0	40.0	40.0	40.0	40.0	42.5°	731.8	671.6	607.7	551.4	497.0	441.0
41.1	41.1	41.1	41.1	41.1	41.1	45°	748.1	679.6	608.5	547.9	490.5	432.5
42.2	42.2	42.2	42.2	42.2	42.2	47.5°	755.8	679.8	603.1	539.9	481.8	420.5
43.2	43.2	43.2	43.2	43.2	43.2	50°	755.0	673.0	592.7	529.3	471.9	408.0
44.0	44.0	44.0	44.0	44.0	44.0	52.5°	746.8	661.8	580.7	520.8	463.4	397.3
44.4	44.4	44.4	44.4	44.4	44.4	55°	734.2	649.8	568.6	515.1	456.3	388.6
44.5	44.5	44.5	44.5	44.5	44.5	57.5°	720.0	639.4	559.9	514.0	452.2	386.9
44.9	44.9	44.9	44.9	44.9	44.9	60°	713.7	640.5	565.4	506.3	450.1	390.5
45.5	45.5	45.5	45.5	45.5	45.5	62.5°	709.6	650.9	576.6	511.5	453.6	405.5
45.7	45.7	45.7	45.7	45.7	45.7	65°	693.0	665.4	593.8	530.1	479.3	440.8
45.6	45.6	45.6	45.6	45.6	45.6	67.5°	673.0	669.5	600.6	541.0	508.5	486.6
						70°	652.3	665.1	610.5	569.7	551.7	542.9
						72.5°	618.9	633.7	582.8	558.5	553.1	546.8
						75°	516.2	518.9	480.1	466.7	476.3	461.5
						77.5°	371.1	378.2	353.0	356.6	387.7	355.8
						80°	274.9	247.0	231.2	241.8	271.6	226.0
						82.5°	226.5	183.3	155.5	170.0	181.4	133.4
						85°	174.3	139.9	115.0	92.9	88.5	57.1
						87.5°	136.9	101.1	56.3	31.7	21.3	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: P173568

CATALOG NUMBER: ENT-EXX-LED-E1-SLR-8030-ULG-BBB

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
177.4	112.5°	6.9	6.9	6.9	6.9	6.9	6.9
181.2	115°	8.1	8.1	8.1	8.1	8.1	8.1
185.5	117.5°	9.6	9.6	9.6	9.6	9.6	9.6
190.7	120°	11.3	11.3	11.3	11.3	11.3	11.3
198.7	122.5°	13.2	13.2	13.2	13.2	13.2	13.2
210.1	125°	15.5	15.5	15.5	15.5	15.5	15.5
230.6	127.5°	17.9	17.9	17.9	17.9	17.9	17.9
257.1	130°	20.4	20.4	20.4	20.4	20.4	20.4
289.6	132.5°	22.8	22.8	22.8	22.8	22.8	22.8
326.3	135°	25.2	25.2	25.2	25.2	25.2	25.2
368.1	137.5°	27.6	27.6	27.6	27.6	27.6	27.6
393.8	140°	29.9	29.9	29.9	29.9	29.9	29.9
399.2	142.5°	32.1	32.1	32.1	32.1	32.1	32.1
403.1	145°	34.0	34.0	34.0	34.0	34.0	34.0
404.2	147.5°	35.6	35.6	35.6	35.6	35.6	35.6
402.5	150°	37.3	37.3	37.3	37.3	37.3	37.3
395.9	152.5°	38.8	38.8	38.8	38.8	38.8	38.8
387.5	155°	40.0	40.0	40.0	40.0	40.0	40.0
376.8	157.5°	41.1	41.1	41.1	41.1	41.1	41.1
363.7	160°	42.2	42.2	42.2	42.2	42.2	42.2
351.4	162.5°	43.2	43.2	43.2	43.2	43.2	43.2
341.8	165°	44.0	44.0	44.0	44.0	44.0	44.0
335.8	167.5°	44.4	44.4	44.4	44.4	44.4	44.4
336.6	170°	44.5	44.5	44.5	44.5	44.5	44.5
345.1	172.5°	44.9	44.9	44.9	44.9	44.9	44.9
366.4	175°	45.5	45.5	45.5	45.5	45.5	45.5
406.9	177.5°	45.7	45.7	45.7	45.7	45.7	45.7
446.5	180°	45.6	45.6	45.6	45.6	45.6	45.6
484.7							
459.6							
350.9							
252.5							
146.5							
91.5							
39.6							
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)