

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: P173333

Luminaire Tested: **ENC-EXX-LED-E1-SLR-ULG-CWB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P173333
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-EXX-LED-E1-SLR-ULG-CWB
Description: ENTRI LED LUMINAIRE WITH UPLIGHT, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1678.6 lumens
Efficiency: N/A
Efficacy: 305.2 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

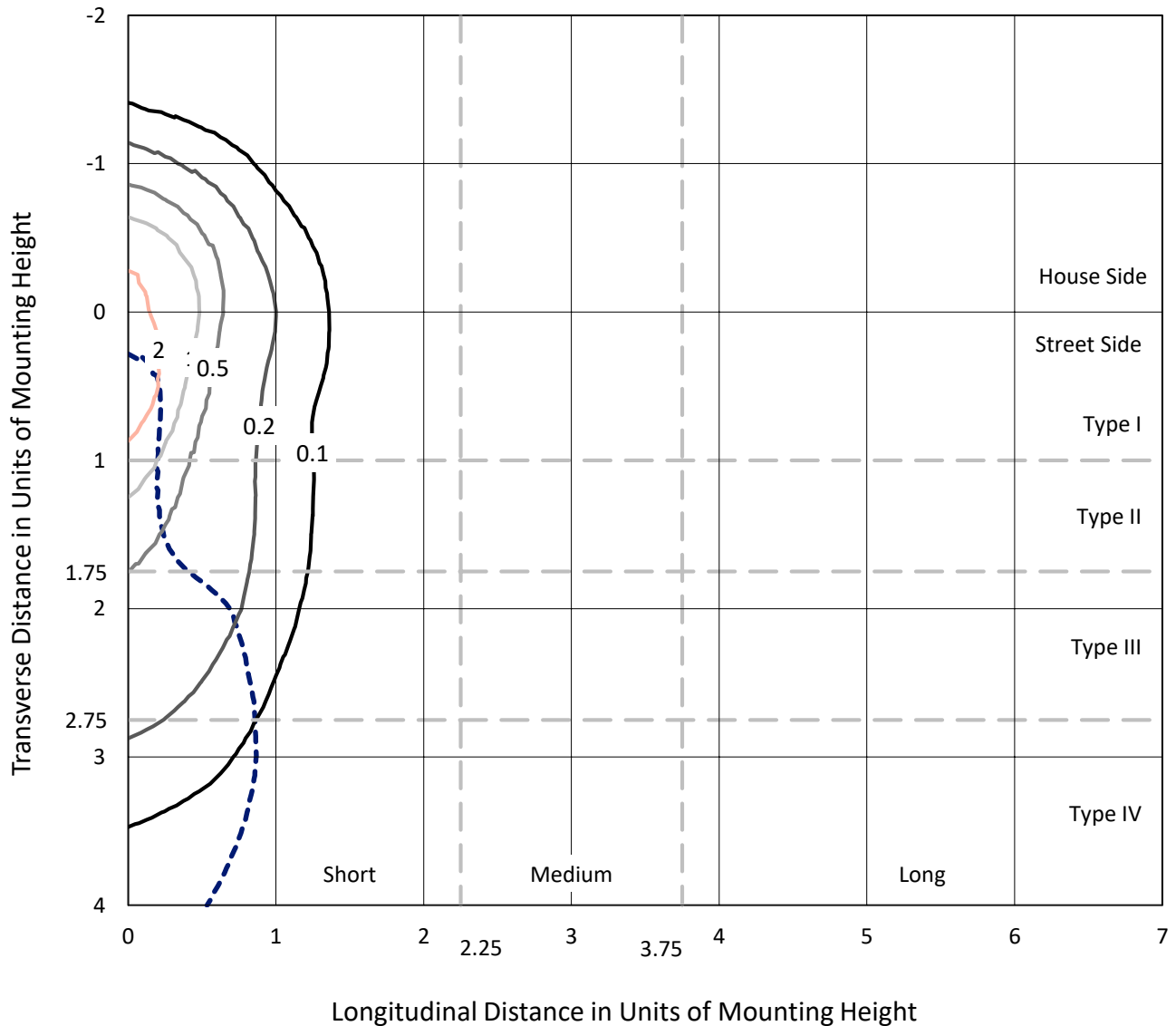
Input Watts (W): 5.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

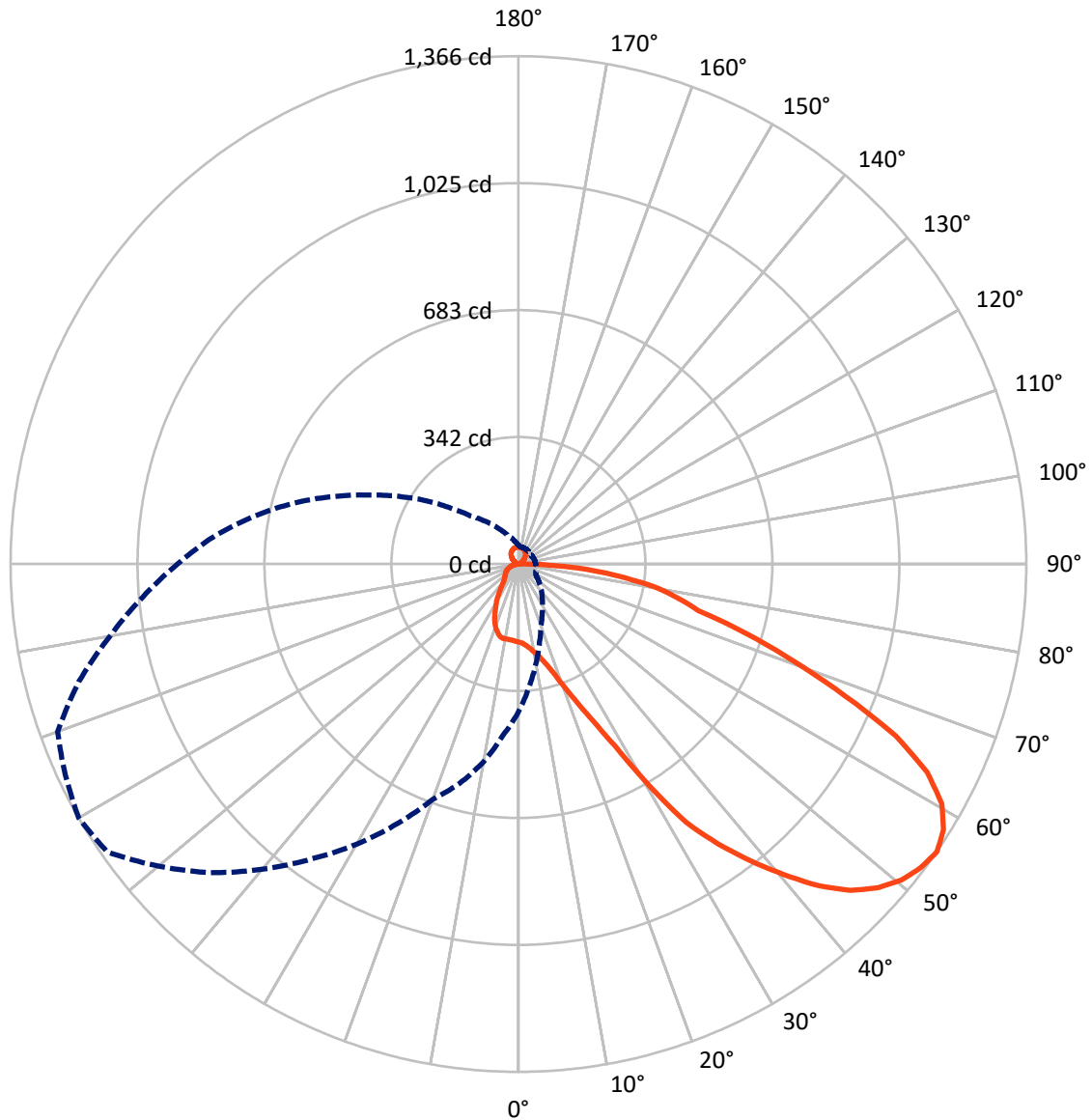
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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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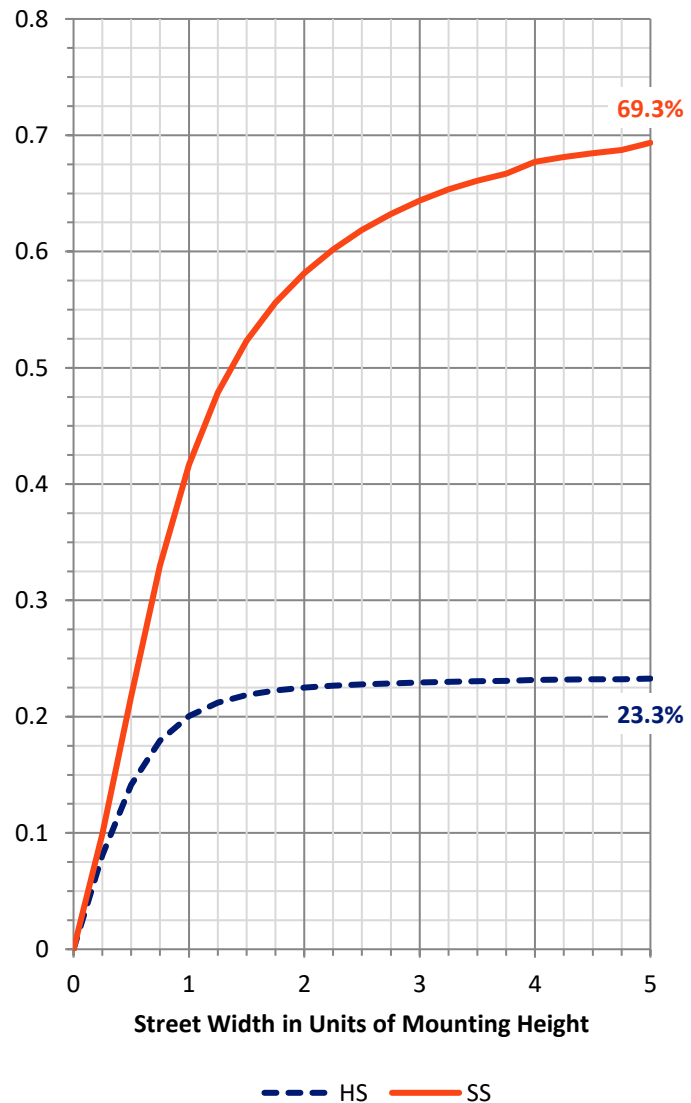
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.0	51.1	445.1
	% Fixture	23.5	3.0	26.5
Street Side	Lumens	1182.4	51.1	1233.5
	% Fixture	70.4	3.0	73.5
Total	Lumens	1576.5	102.1	1678.6
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.7	1.2
10°-20°	68.0	4.1
20°-30°	132.0	7.9
30°-40°	207.5	12.4
40°-50°	277.3	16.5
50°-60°	325.4	19.4
60°-70°	308.7	18.4
70°-80°	186.3	11.1
80°-90°	50.5	3.0
90°-100°	0.4	0.0
100°-110°	4.0	0.2
110°-120°	8.2	0.5
120°-130°	13.9	0.8
130°-140°	19.4	1.2
140°-150°	21.2	1.3
150°-160°	18.4	1.1
160°-170°	12.4	0.7
170°-180°	4.3	0.3
0°-90°	1576.5	93.9
0°-180°	1678.6	100.0



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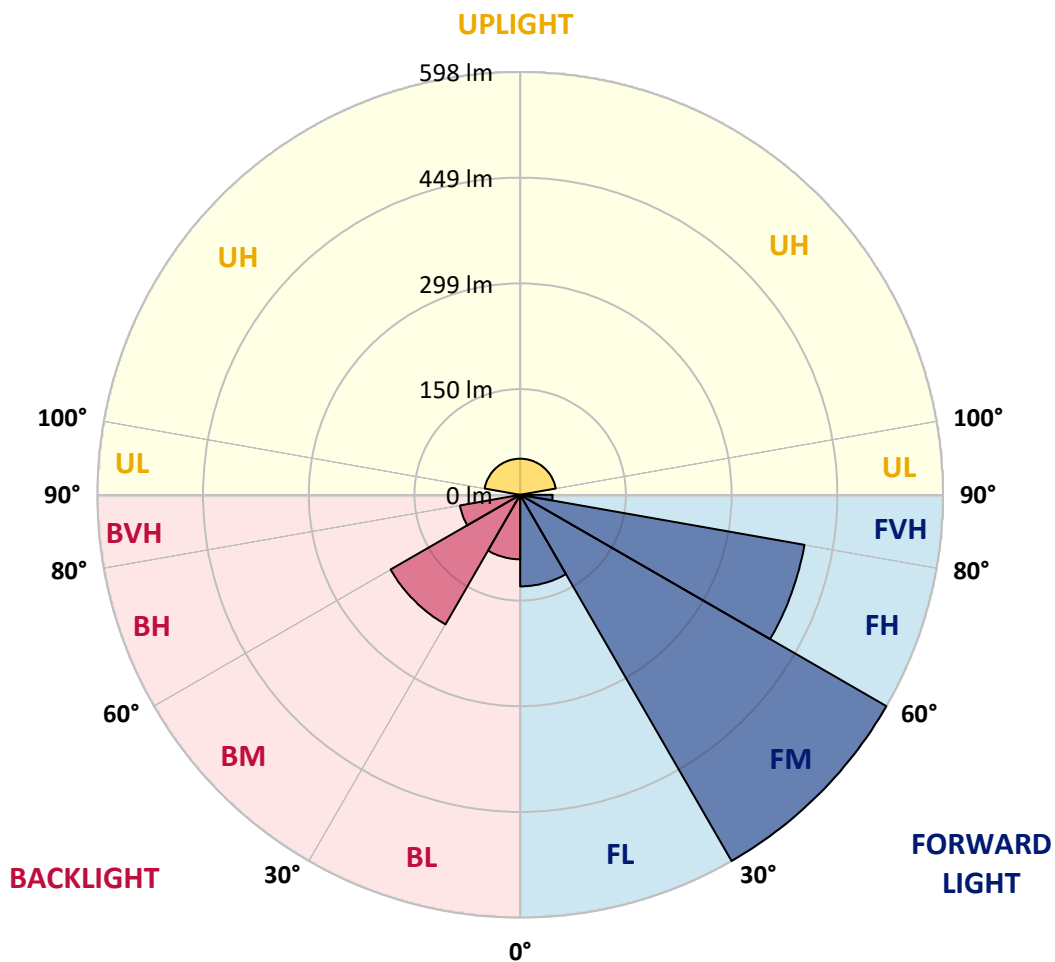
CATALOG NUMBER: ENC-EXX-LED-E1-SLR-ULG-CWB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	129.6	7.7			
FM	(30°-60°)	598.4	35.7			
FH	(60°-80°)	408.5	24.3			G0/660
FVH	(80°-90°)	45.9	2.7			G1/100
BL	(0°-30°)	91.2	5.4	B0/110		
BM	(30°-60°)	211.8	12.6	B0/220		
BH	(60°-80°)	86.5	5.2	B0/110		G0/110
BVH	(80°-90°)	4.6	0.3			G0/10
UL	(90°-100°)	0.4	0.0		U1/10	
UH	(100°-180°)	51.1	3.0		U3/500	

BUG Rating: B0-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1
2.5°	214.7	216.3	214.3	214.7	214.0	213.4	213.7	213.4	212.7	212.7	212.1
5°	219.8	220.2	218.9	218.5	217.9	216.9	217.2	216.3	215.6	215.0	213.7
7.5°	226.0	225.7	224.0	223.1	222.7	221.1	220.8	219.5	218.5	217.6	215.9
10°	235.4	232.8	230.8	229.2	228.6	226.6	225.0	224.4	222.7	220.5	219.2
12.5°	249.0	247.4	243.5	240.2	238.3	235.7	233.4	231.8	229.2	226.0	224.4
15°	273.3	268.1	263.5	258.7	254.8	250.6	245.1	240.9	236.3	230.8	226.6
17.5°	304.7	298.2	291.1	283.3	275.2	266.1	255.4	247.4	238.3	228.9	222.4
20°	343.2	331.2	321.2	306.3	291.4	277.1	260.3	246.1	233.1	220.8	211.4
22.5°	386.6	368.4	348.0	325.4	301.4	279.4	255.8	236.3	217.6	202.4	191.7
25°	436.1	407.6	376.5	342.2	307.9	275.2	246.1	221.8	201.7	183.6	171.6
27.5°	466.5	427.7	390.5	349.7	310.5	272.6	237.0	208.8	185.8	166.4	152.5
30°	473.0	433.8	390.1	345.8	305.3	263.9	225.0	193.6	168.0	147.6	133.7
32.5°	477.5	432.2	383.7	334.4	290.4	246.7	207.2	176.1	148.9	128.9	112.7
35°	478.8	426.1	371.4	316.6	270.3	225.7	186.2	153.5	129.8	110.1	95.5
37.5°	476.9	416.0	354.8	298.2	248.6	202.0	163.2	134.7	114.6	95.5	82.6
40°	469.1	403.4	340.0	280.4	226.6	178.4	143.8	119.1	102.0	87.4	77.4
42.5°	459.1	388.8	323.4	259.7	205.3	159.6	128.2	108.5	93.9	83.5	75.1
45°	446.5	373.6	306.3	241.2	187.1	145.4	119.1	102.6	91.3	82.2	74.5
47.5°	430.9	357.4	289.8	227.3	174.8	138.2	117.2	102.6	91.3	81.6	73.2
50°	416.4	342.9	277.1	218.5	169.3	138.6	119.1	103.9	91.0	80.3	70.9
52.5°	405.0	334.1	272.0	215.3	170.0	141.8	123.0	105.9	91.9	80.3	70.3
55°	397.9	330.6	271.3	218.2	176.8	150.5	129.2	111.7	96.5	82.9	71.2
57.5°	398.9	334.4	279.1	230.2	192.3	165.8	141.5	122.1	103.0	86.1	71.6
60°	408.9	347.4	297.9	258.4	218.2	186.2	157.0	131.1	105.9	85.1	69.3
62.5°	434.2	377.8	337.4	296.9	250.3	206.2	166.4	132.7	102.6	80.3	63.8
65°	482.1	432.5	393.7	343.2	276.8	214.7	165.4	127.9	96.5	72.5	56.3
67.5°	529.0	476.6	421.9	345.8	270.3	208.5	154.8	115.9	85.5	62.2	49.9
70°	574.4	506.4	436.1	342.5	251.6	179.4	129.2	96.8	68.0	51.8	42.7
72.5°	544.6	466.2	394.3	302.1	216.3	147.3	103.0	70.3	52.1	42.7	36.9
75°	415.7	361.3	298.8	231.8	159.6	103.9	68.6	49.9	40.1	33.7	30.1
77.5°	299.2	258.7	207.5	152.2	99.7	65.7	46.6	35.6	29.8	25.3	23.3
80°	173.5	148.9	116.2	83.9	57.0	41.1	31.1	25.3	21.7	18.5	17.8
82.5°	108.5	86.8	61.5	41.4	29.1	22.7	18.1	15.5	13.0	11.3	9.7
85°	46.9	33.7	19.1	10.7	8.1	6.2	4.9	4.2	3.6	3.2	2.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.6
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



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CATALOG NUMBER: ENC-EXX-LED-E1-SLR-ULG-CWB

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°	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1
2.5°	212.1	211.4	211.1	211.1	210.4	210.4	209.8	210.1	209.8	209.2	208.8
5°	213.4	212.4	211.7	211.1	210.1	209.8	209.2	209.2	208.2	207.2	206.9
7.5°	215.0	213.7	212.7	211.4	210.1	209.5	208.2	207.5	206.6	205.6	205.3
10°	218.2	215.9	214.3	212.7	210.4	209.2	207.2	206.2	205.3	204.0	203.3
12.5°	221.8	218.9	216.6	212.7	210.4	208.2	206.2	204.3	202.4	201.1	200.7
15°	221.8	218.2	213.4	209.8	206.6	203.3	201.4	199.4	197.2	196.2	195.9
17.5°	216.3	210.1	205.6	201.7	198.8	196.2	194.3	193.3	191.3	189.4	188.8
20°	203.6	196.5	191.3	187.1	183.9	181.3	180.7	179.7	178.7	178.7	179.0
22.5°	182.9	175.2	170.6	166.1	162.5	161.2	161.6	162.5	162.9	162.5	164.8
25°	162.2	154.8	148.6	144.4	140.2	141.2	139.9	142.1	143.1	143.4	146.0
27.5°	142.1	134.0	127.6	124.0	122.1	120.8	119.8	122.7	123.4	125.6	127.9
30°	120.8	113.3	105.9	103.0	101.3	100.4	100.7	103.3	104.9	108.1	110.1
32.5°	101.0	91.9	86.4	82.6	80.9	80.6	80.9	82.9	84.8	89.0	91.9
35°	84.2	75.4	70.9	68.6	66.4	65.4	66.4	67.0	67.7	71.2	74.8
37.5°	74.5	68.3	64.8	62.5	60.9	59.9	59.9	59.6	59.9	60.5	62.2
40°	70.3	65.7	62.5	60.2	58.9	58.3	58.0	57.6	57.3	57.3	57.3
42.5°	68.6	63.5	60.2	58.3	57.6	57.6	57.6	57.3	56.7	56.0	55.7
45°	67.3	61.8	58.3	56.7	56.7	56.7	57.0	56.7	56.0	55.0	54.1
47.5°	65.1	59.6	56.3	55.0	55.0	55.0	55.4	55.0	54.4	53.7	52.8
50°	62.5	56.7	53.4	52.4	52.1	52.1	51.8	51.5	51.2	50.5	49.5
52.5°	60.9	54.7	51.8	51.2	50.5	50.2	49.5	49.2	48.6	48.2	47.3
55°	60.5	53.4	50.8	50.2	49.5	48.6	47.3	46.6	45.3	45.0	44.4
57.5°	59.6	52.1	49.2	47.6	46.0	45.0	43.7	43.1	42.4	41.8	41.1
60°	56.3	48.2	44.7	43.7	42.7	42.4	41.8	41.1	40.1	39.2	37.9
62.5°	50.2	43.4	41.1	40.8	40.5	39.8	39.2	38.2	37.6	36.3	35.0
65°	45.3	40.8	39.5	38.9	38.5	37.6	36.9	36.3	35.3	34.3	33.0
67.5°	41.1	37.9	37.2	36.3	35.9	35.3	34.3	33.7	32.7	31.7	30.4
70°	37.2	34.6	34.3	33.7	33.0	32.7	31.4	30.4	30.1	28.8	27.8
72.5°	33.0	31.4	30.8	30.1	29.5	29.1	28.5	27.8	27.2	25.9	24.6
75°	27.5	26.9	26.5	25.9	25.6	24.9	24.0	23.0	22.7	21.7	20.7
77.5°	22.0	21.4	21.4	20.7	19.7	18.8	17.8	16.5	16.5	16.5	15.9
80°	15.5	14.9	13.9	13.6	13.0	12.3	11.3	10.7	10.0	10.0	10.0
82.5°	9.1	8.7	8.1	7.1	6.5	6.2	5.2	4.5	4.2	3.6	3.6
85°	1.9	1.9	1.3	1.3	1.0	1.0	1.0	0.6	0.6	0.3	0.3
87.5°	1.6	1.6	1.6	1.3	1.3	1.3	1.0	1.0	1.0	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: P173333

CATALOG NUMBER: ENC-EXX-LED-E1-SLR-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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CATALOG NUMBER: ENC-EXX-LED-E1-SLR-ULG-CWB

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1
2.5°	208.8	208.5	207.9	206.6	206.2	205.9	206.2	206.2	205.9	206.2	206.6
5°	206.9	206.6	205.6	204.9	204.3	204.3	206.2	206.2	205.3	205.6	206.9
7.5°	205.3	205.3	204.6	204.3	204.6	205.6	207.2	208.5	208.2	210.1	210.8
10°	203.3	203.6	204.0	205.3	207.2	208.8	211.4	213.7	214.3	215.9	216.9
12.5°	201.4	202.7	204.3	206.9	209.5	212.1	215.0	217.6	217.9	219.5	220.8
15°	196.5	198.5	200.7	203.6	207.5	210.4	214.7	216.6	217.2	218.2	219.8
17.5°	189.1	190.0	191.7	194.9	199.1	203.0	207.9	211.1	213.0	214.3	215.0
20°	179.0	181.0	182.0	184.9	187.1	190.0	196.5	200.7	204.6	206.6	208.5
22.5°	165.1	167.4	169.7	172.6	173.9	175.8	182.0	188.4	194.3	198.1	200.4
25°	147.6	150.2	153.5	157.0	158.6	160.6	167.7	174.2	181.3	188.1	191.3
27.5°	130.2	133.4	136.6	140.8	143.4	145.7	151.8	158.0	165.4	171.9	175.2
30°	113.3	117.8	120.8	125.6	127.9	130.2	135.7	142.5	147.6	155.1	159.3
32.5°	95.8	99.1	104.6	110.1	112.7	114.9	120.1	125.9	130.5	137.9	144.1
35°	80.0	82.9	88.7	94.2	95.8	99.4	104.6	109.8	114.0	120.8	126.6
37.5°	65.1	69.9	74.5	78.7	82.2	84.8	89.7	94.2	96.5	103.0	109.1
40°	58.0	60.2	63.5	67.3	69.6	72.2	75.8	79.6	82.2	86.8	91.9
42.5°	55.4	55.4	56.3	58.3	61.2	62.5	65.7	67.7	71.2	73.2	77.7
45°	53.4	52.8	53.1	53.1	54.1	55.0	57.6	59.6	61.8	63.5	66.4
47.5°	51.8	50.5	50.2	49.5	49.2	49.9	51.8	53.4	54.4	55.7	56.7
50°	48.2	47.3	46.3	45.7	45.3	46.0	47.6	48.9	49.2	49.9	50.5
52.5°	46.3	45.0	44.0	43.1	43.1	43.7	45.0	46.0	46.3	46.6	47.3
55°	43.7	43.1	42.4	41.4	41.1	42.1	43.1	44.0	44.7	44.7	45.3
57.5°	40.5	39.8	40.5	40.1	39.8	40.5	41.8	42.7	43.1	43.1	43.4
60°	37.2	36.9	36.9	37.6	38.2	39.2	40.1	41.4	41.1	40.5	40.8
62.5°	34.3	34.0	34.3	35.3	36.3	37.2	38.5	39.5	38.5	37.9	37.9
65°	32.4	32.1	32.4	32.7	33.0	34.0	35.6	35.9	35.3	35.3	35.3
67.5°	29.8	29.5	29.1	29.5	29.8	30.1	31.4	31.7	31.7	31.7	31.7
70°	26.5	26.2	25.9	25.9	25.9	26.2	26.5	27.2	27.8	28.5	28.8
72.5°	23.0	22.3	22.3	22.3	21.7	22.0	22.3	23.6	24.3	24.9	25.6
75°	19.4	18.8	18.8	18.1	18.5	18.8	18.8	19.4	20.1	21.0	21.7
77.5°	15.2	15.2	15.2	14.9	14.9	15.2	15.5	15.5	16.2	17.2	18.1
80°	9.7	9.7	10.4	10.7	11.0	11.3	12.0	12.3	12.6	13.6	13.9
82.5°	3.6	3.9	4.2	4.2	5.2	6.5	6.8	7.8	8.4	9.4	9.4
85°	0.3	0.3	0.3	0.3	0.3	0.6	1.0	1.3	1.9	2.9	3.6
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°	
210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	112.5°	6.9
206.9	207.9	207.5	207.2	207.5	208.2	207.9	208.2	208.5	209.2	208.8	115°	8.1
207.2	208.2	208.5	208.5	209.2	210.1	210.1	210.4	210.8	211.4	211.4	117.5°	9.6
211.7	214.0	214.0	214.3	215.3	216.3	216.6	216.9	216.6	216.6	216.6	120°	11.3
218.5	221.1	221.5	223.1	224.4	224.0	224.0	224.4	223.7	223.1	222.1	122.5°	13.2
222.1	224.4	225.0	226.6	228.6	228.9	229.9	230.5	229.9	228.3	226.6	125°	15.5
221.1	223.1	224.4	226.3	228.6	229.9	231.8	232.5	232.1	230.2	228.3	127.5°	17.9
216.9	219.2	220.8	223.4	226.0	227.9	229.9	230.8	230.8	229.2	227.9	130°	20.4
210.1	212.7	215.0	217.9	221.1	223.4	225.7	226.3	226.3	225.7	226.6	132.5°	22.8
203.0	205.9	208.5	211.4	215.6	217.9	220.5	222.4	223.4	224.7	228.9	135°	25.2
193.9	195.2	198.5	201.7	207.5	211.4	216.9	222.1	227.3	233.1	241.5	137.5°	27.6
178.1	180.3	184.2	188.8	194.6	201.7	211.7	221.8	231.2	239.9	250.3	140°	29.9
164.8	169.0	173.2	178.4	184.5	191.3	203.0	215.9	227.3	237.6	249.0	142.5°	32.1
150.5	155.7	161.2	168.0	173.9	180.0	189.7	204.0	217.6	229.2	241.2	145°	34.0
134.0	139.5	145.0	152.2	158.3	166.1	174.8	188.8	204.3	217.6	231.8	147.5°	35.6
116.2	121.1	127.2	133.7	140.8	149.9	159.3	172.2	188.4	202.7	218.9	150°	37.3
99.4	104.6	110.7	117.8	125.0	134.7	145.4	157.7	172.6	187.8	204.9	152.5°	38.8
83.5	90.3	96.8	103.9	111.4	120.4	131.8	145.0	159.9	176.1	194.3	155°	40.0
70.3	75.4	82.2	88.1	96.2	104.9	116.6	131.4	148.6	165.8	184.9	157.5°	41.1
58.6	61.8	67.7	74.8	82.2	91.3	101.0	115.9	133.4	152.2	173.5	160°	42.2
51.5	53.1	57.3	63.8	70.9	80.0	88.4	101.3	118.8	137.3	159.3	162.5°	43.2
47.9	48.6	50.8	55.7	62.5	70.6	79.6	90.7	106.2	124.3	145.4	165°	44.0
46.0	46.3	46.9	50.5	56.3	63.8	72.8	81.6	95.5	112.7	133.1	167.5°	44.4
43.7	44.0	44.4	46.3	50.5	57.0	64.8	71.9	84.5	99.7	119.1	170°	44.5
41.4	42.1	42.7	43.4	46.3	50.5	56.3	62.5	71.2	84.5	100.4	172.5°	44.9
38.5	39.2	40.1	40.8	41.8	44.4	47.9	51.8	56.3	65.7	78.7	175°	45.5
35.9	36.6	36.9	37.2	37.9	38.5	39.8	40.8	43.1	48.6	57.6	177.5°	45.7
32.4	33.0	33.0	33.3	33.7	33.7	34.3	34.6	35.3	36.9	40.8	180°	45.6
29.5	29.8	30.1	30.4	30.4	30.4	30.1	30.4	30.1	30.1	31.7		
25.9	26.2	26.5	26.9	27.2	27.5	27.8	27.8	27.5	26.9	26.9		
22.0	22.0	22.7	23.0	23.3	24.3	24.9	24.3	24.3	24.0	24.0		
18.5	19.1	19.4	19.4	20.1	21.0	21.7	21.4	20.4	20.4	20.7		
14.2	14.6	14.9	15.2	15.5	16.5	17.5	17.8	17.2	17.5	17.5		
9.4	9.7	10.4	10.7	11.0	12.0	13.0	13.9	13.6	14.2	13.6		
4.2	4.9	5.2	5.2	6.2	7.1	8.4	9.4	10.7	11.0	10.0		
0.0	0.3	0.3	0.3	1.3	2.3	4.2	6.5	8.7	6.8	5.2		
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		

'173333
 ENC-EXX-LED-E1-SLR-ULG-CWB

REPORT NUMBER: P173333
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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°	210.1	210.1
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	208.8	209.2
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	211.7	211.7
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	215.9	215.9
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	221.5	220.5
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	224.7	223.1
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	226.6	225.0
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	227.3	227.3
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	228.9	231.5
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	234.4	240.9
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	250.6	259.7
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	263.2	275.2
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	264.2	279.1
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	258.4	274.6
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	249.6	268.1
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	238.9	259.7
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	226.6	248.0
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	215.3	237.3
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	207.2	230.5
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	198.5	223.4
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	184.5	214.0
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	169.7	199.1
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	156.1	184.2
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	141.5	170.0
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	122.4	150.9
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	97.8	124.6
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	70.3	92.9
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	47.6	63.1
										70°	34.6	43.1
										72.5°	28.2	32.4
										75°	24.9	27.2
										77.5°	22.0	23.3
										80°	17.5	18.8
										82.5°	13.6	14.9
										85°	10.0	11.0
										87.5°	4.5	4.5
										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: P173333

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

LED-E1-SLR-ULG-CWB

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	210.1	112.5°	6.9	6.9	6.9
209.5	209.8	209.8	210.4	210.8	211.4	211.7	211.7	211.7	115°	8.1	8.1	8.1
212.4	212.7	213.0	214.0	214.3	215.3	216.3	216.6	217.6	117.5°	9.6	9.6	9.6
215.9	216.9	217.2	217.9	218.5	220.2	221.5	222.1	223.1	120°	11.3	11.3	11.3
220.2	220.5	220.5	221.1	222.7	223.7	225.3	228.3	230.2	122.5°	13.2	13.2	13.2
223.1	222.1	222.7	223.4	225.0	227.3	229.9	234.1	238.0	125°	15.5	15.5	15.5
225.0	225.0	226.6	227.9	230.8	234.4	239.3	245.1	250.9	127.5°	17.9	17.9	17.9
228.6	229.5	233.1	235.7	240.9	246.1	252.2	260.3	269.0	130°	20.4	20.4	20.4
235.1	237.6	241.5	245.7	250.9	258.7	269.0	279.4	291.1	132.5°	22.8	22.8	22.8
245.4	251.2	257.7	262.9	269.0	280.1	291.4	304.3	318.9	135°	25.2	25.2	25.2
268.1	274.6	284.3	293.0	301.7	317.6	332.2	347.1	366.8	137.5°	27.6	27.6	27.6
287.8	298.2	313.4	326.0	338.0	357.1	373.3	397.9	418.9	140°	29.9	29.9	29.9
296.2	313.1	332.2	350.3	372.7	391.4	415.4	444.8	472.4	142.5°	32.1	32.1	32.1
294.3	314.7	338.7	363.3	389.8	419.9	447.4	480.5	516.4	145°	34.0	34.0	34.0
289.8	312.8	340.6	370.1	401.8	439.3	474.0	515.1	559.8	147.5°	35.6	35.6	35.6
284.3	311.1	342.2	376.9	416.7	461.4	506.0	559.8	615.5	150°	37.3	37.3	37.3
275.8	306.6	344.2	387.2	436.1	488.6	547.2	611.3	671.2	152.5°	38.8	38.8	38.8
266.5	301.1	346.4	401.5	463.0	528.1	595.7	661.1	729.4	155°	40.0	40.0	40.0
260.3	299.5	352.3	418.0	489.5	565.0	640.4	712.0	786.4	157.5°	41.1	41.1	41.1
256.7	300.5	358.4	430.3	509.3	592.5	672.5	754.7	832.7	160°	42.2	42.2	42.2
253.5	303.0	363.9	438.1	521.9	610.3	697.7	786.4	872.9	162.5°	43.2	43.2	43.2
245.1	302.1	365.9	440.3	528.4	621.9	715.2	808.8	900.7	165°	44.0	44.0	44.0
230.5	293.0	361.6	438.1	530.3	628.7	726.5	825.3	916.6	167.5°	44.4	44.4	44.4
211.1	274.6	346.7	428.3	523.5	625.5	730.4	836.0	925.6	170°	44.5	44.5	44.5
189.4	245.7	320.5	406.0	501.5	605.8	713.2	825.9	915.3	172.5°	44.9	44.9	44.9
159.6	209.8	284.9	368.1	461.4	565.0	662.4	785.4	876.4	175°	45.5	45.5	45.5
122.1	166.7	231.5	316.3	411.2	501.8	590.2	713.2	814.3	177.5°	45.7	45.7	45.7
84.2	118.8	173.2	247.4	336.1	419.6	507.7	622.6	740.4	180°	45.6	45.6	45.6
54.7	77.1	114.6	171.6	241.9	318.9	392.1	497.3	623.6				
38.9	49.2	69.9	105.9	159.3	218.9	278.8	350.0	470.4				
30.8	35.9	43.1	61.5	93.2	136.3	184.5	229.5	330.2				
24.9	27.2	30.8	37.9	55.0	78.7	108.8	144.7	205.3				
20.1	21.7	24.0	26.9	34.0	45.3	63.1	79.6	117.2				
16.2	18.1	18.8	19.1	22.0	25.9	33.3	45.0	67.0				
11.7	12.3	12.3	12.6	13.3	14.2	19.1	33.0	48.9				
4.5	3.9	4.2	3.2	3.6	3.9	6.2	7.1	11.3				
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: P173333

CATALOG NUMBER: ENC-EXX-LED-E1-SLR-ULG-CW

R-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°	210.1	210.1	210.1	210.1
8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	2.5°	212.7	212.7	212.4	212.4
9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	5°	218.2	219.2	218.5	219.5
11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	7.5°	225.3	226.0	226.6	227.9
13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	10°	232.8	235.1	237.3	238.3
15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	12.5°	241.5	245.7	250.3	252.5
17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15°	256.7	263.2	268.4	272.0
20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	17.5°	276.8	285.6	294.3	300.5
22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	20°	302.4	315.0	327.3	335.1
25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	22.5°	334.8	349.7	363.3	378.2
27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	25°	379.4	400.2	424.1	437.1
29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	27.5°	443.2	471.4	488.2	517.0
32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	30°	504.1	538.7	579.5	619.4
34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	32.5°	555.6	606.4	666.3	726.8
35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35°	609.6	674.1	743.4	821.1
37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.5°	674.4	741.1	815.9	901.0
38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	40°	733.3	809.4	901.0	979.7
40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	42.5°	798.4	879.3	982.6	1073.6
41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	45°	861.5	946.0	1059.0	1158.7
42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	47.5°	916.9	1001.7	1122.2	1226.1
43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	50°	961.3	1055.8	1173.3	1273.0
44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	52.5°	995.9	1095.9	1212.2	1305.4
44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	55°	1014.0	1115.0	1224.1	1319.0
44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	57.5°	1016.6	1113.7	1214.1	1306.7
44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	60°	992.0	1078.1	1174.0	1270.8
45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	62.5°	937.0	1004.3	1095.3	1191.1
45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	65°	866.4	910.4	971.0	1064.9
45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	67.5°	797.1	826.2	858.0	927.3
								70°	690.6	714.9	746.6	789.7
								72.5°	537.1	569.2	591.8	633.6
								75°	403.7	422.2	454.9	493.4
								77.5°	283.9	302.7	340.0	384.0
								80°	190.7	203.6	226.6	264.5
								82.5°	116.9	131.8	151.2	183.9
								85°	78.4	101.7	126.6	151.2
								87.5°	33.0	55.7	70.6	74.1
								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: P173333

CATALOG NUMBER: ENC-EXX-LED-E1-SLR-ULG-CWB

B

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
210.1	210.1	210.1	210.1	210.1	210.1	210.1	112.5°	6.9	6.9	6.9	6.9	6.9
213.4	213.0	213.7	213.7	213.4	213.4	214.3	115°	8.1	8.1	8.1	8.1	8.1
220.2	220.5	221.1	220.5	221.8	220.2	220.5	117.5°	9.6	9.6	9.6	9.6	9.6
229.5	229.9	230.8	230.5	231.5	230.5	229.2	120°	11.3	11.3	11.3	11.3	11.3
241.5	242.2	242.2	243.8	245.4	243.5	241.2	122.5°	13.2	13.2	13.2	13.2	13.2
255.4	257.7	256.7	260.0	261.6	260.3	258.7	125°	15.5	15.5	15.5	15.5	15.5
274.6	279.1	278.4	284.6	286.9	285.9	286.2	127.5°	17.9	17.9	17.9	17.9	17.9
303.0	309.5	310.5	320.2	326.4	325.4	323.8	130°	20.4	20.4	20.4	20.4	20.4
336.1	352.9	356.8	365.2	372.0	374.6	374.3	132.5°	22.8	22.8	22.8	22.8	22.8
392.1	404.4	413.1	428.3	434.5	440.3	438.7	135°	25.2	25.2	25.2	25.2	25.2
455.9	467.2	486.6	506.0	512.2	517.7	524.8	137.5°	27.6	27.6	27.6	27.6	27.6
537.4	554.0	584.7	610.9	625.8	621.3	619.0	140°	29.9	29.9	29.9	29.9	29.9
647.8	689.3	712.0	733.3	743.0	728.8	710.7	142.5°	32.1	32.1	32.1	32.1	32.1
779.9	828.5	842.8	853.1	834.7	815.2	762.1	145°	34.0	34.0	34.0	34.0	34.0
876.7	924.3	953.8	964.8	925.3	867.7	795.8	147.5°	35.6	35.6	35.6	35.6	35.6
964.2	1012.4	1025.4	1030.2	977.1	902.6	832.7	150°	37.3	37.3	37.3	37.3	37.3
1057.1	1097.6	1105.0	1102.4	1031.8	943.8	878.4	152.5°	38.8	38.8	38.8	38.8	38.8
1141.6	1183.0	1176.2	1164.9	1084.6	995.6	923.4	155°	40.0	40.0	40.0	40.0	40.0
1221.9	1252.3	1240.0	1211.8	1134.5	1035.4	958.7	157.5°	41.1	41.1	41.1	41.1	41.1
1275.6	1301.2	1287.9	1252.3	1168.8	1062.3	978.1	160°	42.2	42.2	42.2	42.2	42.2
1316.4	1335.8	1328.1	1276.6	1188.9	1078.8	986.8	162.5°	43.2	43.2	43.2	43.2	43.2
1336.8	1355.9	1351.4	1281.1	1191.4	1081.4	982.6	165°	44.0	44.0	44.0	44.0	44.0
1344.3	1366.0	1350.1	1264.3	1174.3	1071.7	968.0	167.5°	44.4	44.4	44.4	44.4	44.4
1338.1	1348.1	1324.8	1232.2	1139.3	1041.5	947.3	170°	44.5	44.5	44.5	44.5	44.5
1315.4	1308.3	1276.3	1176.6	1089.8	999.8	924.3	172.5°	44.9	44.9	44.9	44.9	44.9
1252.0	1233.5	1207.6	1112.1	1023.7	933.7	888.7	175°	45.5	45.5	45.5	45.5	45.5
1121.2	1116.0	1104.0	1033.1	945.4	859.6	830.8	177.5°	45.7	45.7	45.7	45.7	45.7
953.5	948.3	949.9	902.0	838.5	755.0	755.7	180°	45.6	45.6	45.6	45.6	45.6
817.5	789.0	755.3	703.9	667.0	655.6	692.2						
657.9	642.3	614.8	569.8	528.1	542.6	624.5						
508.6	499.2	519.3	524.5	508.3	498.6	526.4						
416.7	437.1	469.1	509.9	513.8	499.6	446.8						
317.3	370.4	414.7	469.8	464.0	433.2	375.6						
222.1	273.6	315.3	361.6	360.0	331.9	303.4						
170.0	186.2	202.0	250.6	269.4	247.7	216.6						
80.3	80.9	97.5	120.1	128.9	147.0	145.0						
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: P173333

CATALOG NUMBER: ENC-EXX-LED-E1-SLR-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°	210.1	210.1	210.1	210.1	210.1	210.1
8.1	8.1	8.1	8.1	8.1	8.1	2.5°	214.7	214.3	214.3	214.3	214.7	214.3
9.6	9.6	9.6	9.6	9.6	9.6	5°	221.1	220.5	220.2	220.2	219.8	219.8
11.3	11.3	11.3	11.3	11.3	11.3	7.5°	229.5	228.3	228.3	227.3	227.0	226.0
13.2	13.2	13.2	13.2	13.2	13.2	10°	240.9	239.6	239.3	236.7	236.7	234.4
15.5	15.5	15.5	15.5	15.5	15.5	12.5°	257.4	257.4	257.4	254.2	253.5	249.6
17.9	17.9	17.9	17.9	17.9	17.9	15°	285.9	283.3	285.6	280.1	279.7	274.6
20.4	20.4	20.4	20.4	20.4	20.4	17.5°	324.4	324.4	319.9	317.3	315.7	308.2
22.8	22.8	22.8	22.8	22.8	22.8	20°	375.6	375.9	368.1	361.0	357.8	349.3
25.2	25.2	25.2	25.2	25.2	25.2	22.5°	440.6	434.5	424.8	419.6	414.4	400.5
27.6	27.6	27.6	27.6	27.6	27.6	25°	526.1	523.5	506.4	487.6	479.8	458.8
29.9	29.9	29.9	29.9	29.9	29.9	27.5°	610.0	604.5	576.9	544.9	525.1	496.3
32.1	32.1	32.1	32.1	32.1	32.1	30°	683.8	647.5	614.8	576.3	546.2	510.2
34.0	34.0	34.0	34.0	34.0	34.0	32.5°	722.3	676.7	629.1	597.3	559.5	519.6
35.6	35.6	35.6	35.6	35.6	35.6	35°	752.1	703.2	655.9	614.8	572.1	527.1
37.3	37.3	37.3	37.3	37.3	37.3	37.5°	790.0	738.5	686.4	637.5	585.4	532.6
38.8	38.8	38.8	38.8	38.8	38.8	40°	832.1	773.1	708.7	649.5	590.9	530.6
40.0	40.0	40.0	40.0	40.0	40.0	42.5°	867.0	795.8	720.0	653.4	588.9	522.6
41.1	41.1	41.1	41.1	41.1	41.1	45°	886.5	805.2	721.0	649.1	581.2	512.5
42.2	42.2	42.2	42.2	42.2	42.2	47.5°	895.5	805.5	714.5	639.8	570.8	498.3
43.2	43.2	43.2	43.2	43.2	43.2	50°	894.6	797.4	702.2	627.1	559.1	483.4
44.0	44.0	44.0	44.0	44.0	44.0	52.5°	884.8	784.2	688.0	617.1	549.1	470.8
44.4	44.4	44.4	44.4	44.4	44.4	55°	869.9	769.9	673.7	610.3	540.7	460.4
44.5	44.5	44.5	44.5	44.5	44.5	57.5°	853.1	757.6	663.4	609.0	535.8	458.4
44.9	44.9	44.9	44.9	44.9	44.9	60°	845.7	758.9	669.9	599.9	533.2	462.7
45.5	45.5	45.5	45.5	45.5	45.5	62.5°	840.8	771.2	683.1	606.1	537.4	480.5
45.7	45.7	45.7	45.7	45.7	45.7	65°	821.1	788.4	703.5	628.1	567.9	522.2
45.6	45.6	45.6	45.6	45.6	45.6	67.5°	797.4	793.2	711.6	641.0	602.5	576.6
						70°	772.8	788.0	723.3	675.0	653.7	643.3
						72.5°	733.3	750.8	690.6	661.8	655.3	647.8
						75°	611.6	614.8	568.9	553.0	564.3	546.8
						77.5°	439.7	448.1	418.3	422.5	459.4	421.5
						80°	325.7	292.7	273.9	286.5	321.8	267.8
						82.5°	268.4	217.2	184.2	201.4	215.0	158.0
						85°	206.6	165.8	136.3	110.1	104.9	67.7
						87.5°	162.2	119.8	66.7	37.6	25.3	1.6
						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: P173333

CATALOG NUMBER: ENC-EXX-LED-E1-SLR-ULG-CWB

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
210.1	112.5°	6.9	6.9	6.9	6.9	6.9	6.9
214.7	115°	8.1	8.1	8.1	8.1	8.1	8.1
219.8	117.5°	9.6	9.6	9.6	9.6	9.6	9.6
226.0	120°	11.3	11.3	11.3	11.3	11.3	11.3
235.4	122.5°	13.2	13.2	13.2	13.2	13.2	13.2
249.0	125°	15.5	15.5	15.5	15.5	15.5	15.5
273.3	127.5°	17.9	17.9	17.9	17.9	17.9	17.9
304.7	130°	20.4	20.4	20.4	20.4	20.4	20.4
343.2	132.5°	22.8	22.8	22.8	22.8	22.8	22.8
386.6	135°	25.2	25.2	25.2	25.2	25.2	25.2
436.1	137.5°	27.6	27.6	27.6	27.6	27.6	27.6
466.5	140°	29.9	29.9	29.9	29.9	29.9	29.9
473.0	142.5°	32.1	32.1	32.1	32.1	32.1	32.1
477.5	145°	34.0	34.0	34.0	34.0	34.0	34.0
478.8	147.5°	35.6	35.6	35.6	35.6	35.6	35.6
476.9	150°	37.3	37.3	37.3	37.3	37.3	37.3
469.1	152.5°	38.8	38.8	38.8	38.8	38.8	38.8
459.1	155°	40.0	40.0	40.0	40.0	40.0	40.0
446.5	157.5°	41.1	41.1	41.1	41.1	41.1	41.1
430.9	160°	42.2	42.2	42.2	42.2	42.2	42.2
416.4	162.5°	43.2	43.2	43.2	43.2	43.2	43.2
405.0	165°	44.0	44.0	44.0	44.0	44.0	44.0
397.9	167.5°	44.4	44.4	44.4	44.4	44.4	44.4
398.9	170°	44.5	44.5	44.5	44.5	44.5	44.5
408.9	172.5°	44.9	44.9	44.9	44.9	44.9	44.9
434.2	175°	45.5	45.5	45.5	45.5	45.5	45.5
482.1	177.5°	45.7	45.7	45.7	45.7	45.7	45.7
529.0	180°	45.6	45.6	45.6	45.6	45.6	45.6
574.4							
544.6							
415.7							
299.2							
173.5							
108.5							
46.9							
1.6							
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)