

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: P159937

Luminaire Tested: **ENC-F01-LED-E1-SLR-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159937
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND SCALED
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-F01-LED-E1-SLR-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2325.3 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G1

Input Watts (W): 33.9
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

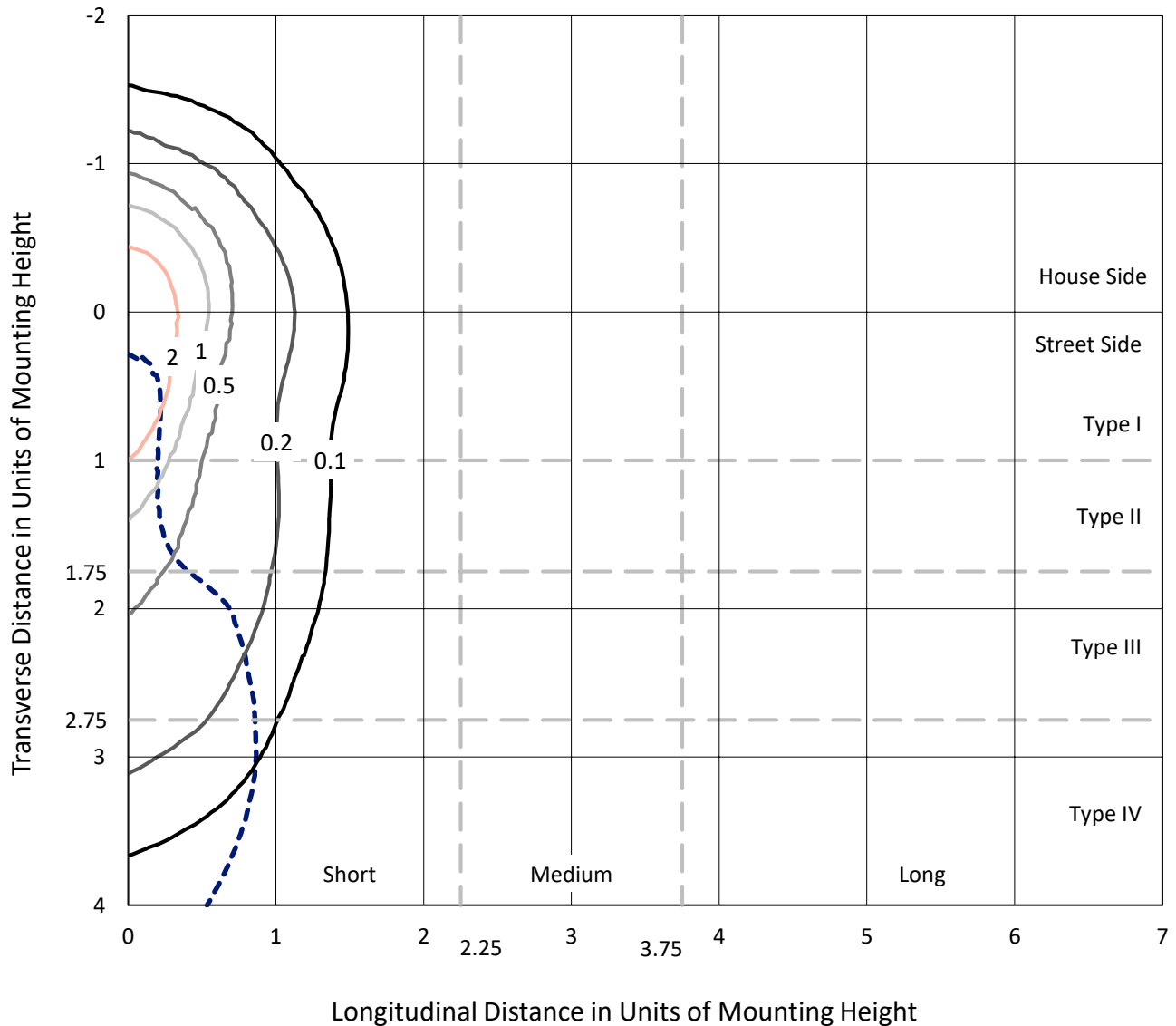


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Iso-Footcandle Lines of Horizontal Illumination

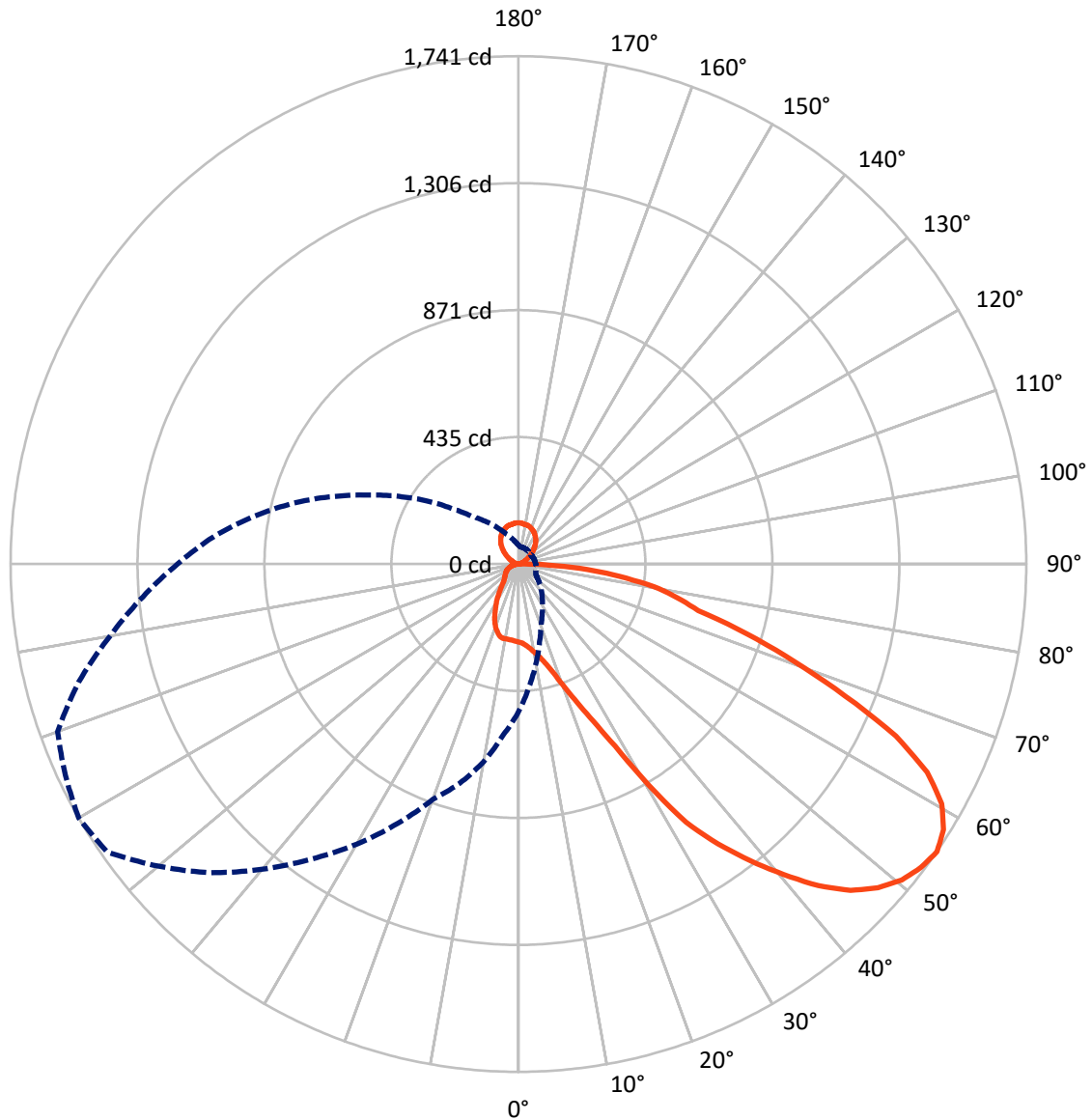
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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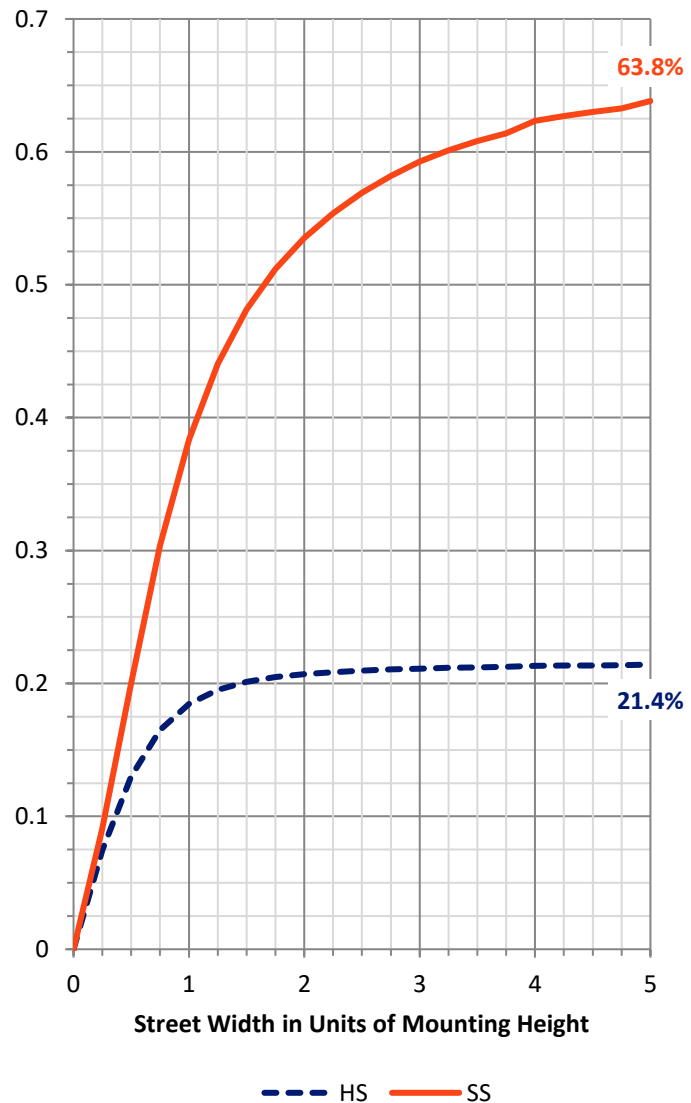
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	502.4	157.7	660.1
	% Fixture	21.6	6.8	28.4
Street Side	Lumens	1507.5	157.7	1665.2
	% Fixture	64.8	6.8	71.6
Total	Lumens	2009.8	315.5	2325.3
	% Fixture	86.4	13.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	1.1
10°-20°	86.7	3.7
20°-30°	168.3	7.2
30°-40°	264.5	11.4
40°-50°	353.6	15.2
50°-60°	414.8	17.8
60°-70°	393.6	16.9
70°-80°	237.5	10.2
80°-90°	64.4	2.8
90°-100°	1.3	0.1
100°-110°	12.3	0.5
110°-120°	25.2	1.1
120°-130°	43.0	1.9
130°-140°	60.0	2.6
140°-150°	65.4	2.8
150°-160°	56.9	2.4
160°-170°	38.2	1.6
170°-180°	13.3	0.6
0°-90°	2009.8	86.4
0°-180°	2325.3	100.0



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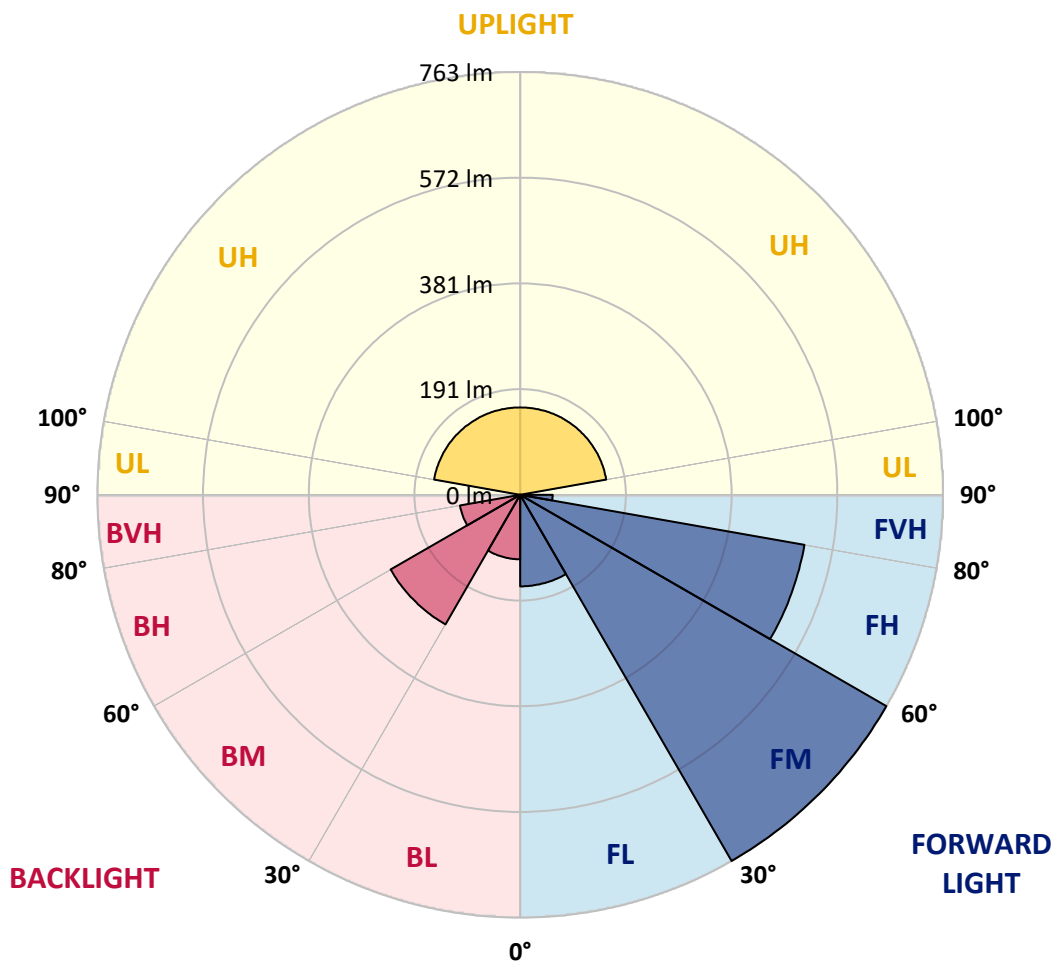
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.2	7.1			
FM	(30°-60°)	763.0	32.8			
FH	(60°-80°)	520.8	22.4			G0/660
FVH	(80°-90°)	58.5	2.5			G1/100
BL	(0°-30°)	116.3	5.0	B1/500		
BM	(30°-60°)	270.0	11.6	B1/1000		
BH	(60°-80°)	110.3	4.7	B1/500		G1/500
BVH	(80°-90°)	5.8	0.3			G0/10
UL	(90°-100°)	1.3	0.1		U1/10	
UH	(100°-180°)	157.7	6.8		U3/500	

BUG Rating: B1-U3-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	273.7	275.7	273.2	273.7	272.8	272.0	272.4	272.0	271.2	271.2	270.4
5°	280.3	280.7	279.0	278.6	277.8	276.6	277.0	275.7	274.9	274.1	272.4
7.5°	288.1	287.7	285.6	284.4	284.0	281.9	281.5	279.9	278.6	277.4	275.3
10°	300.1	296.8	294.3	292.2	291.4	288.9	286.9	286.0	284.0	281.1	279.4
12.5°	317.4	315.4	310.4	306.3	303.8	300.5	297.6	295.5	292.2	288.1	286.0
15°	348.4	341.8	336.0	329.8	324.8	319.5	312.5	307.1	301.3	294.3	288.9
17.5°	388.4	380.2	371.1	361.2	350.8	339.3	325.7	315.4	303.8	291.8	283.6
20°	437.5	422.3	409.5	390.5	371.5	353.3	331.9	313.7	297.2	281.5	269.5
22.5°	492.8	469.7	443.7	414.8	384.3	356.2	326.1	301.3	277.4	258.0	244.4
25°	556.0	519.7	480.0	436.3	392.5	350.8	313.7	282.7	257.2	234.0	218.8
27.5°	594.8	545.3	497.8	445.8	395.8	347.5	302.1	266.2	236.9	212.2	194.4
30°	603.0	553.1	497.4	440.8	389.2	336.4	286.9	246.8	214.2	188.2	170.5
32.5°	608.8	551.0	489.1	426.4	370.2	314.5	264.2	224.5	189.9	164.3	143.6
35°	610.5	543.2	473.4	403.7	344.7	287.7	237.3	195.6	165.5	140.3	121.8
37.5°	608.0	530.4	452.4	380.2	317.0	257.6	208.0	171.7	146.1	121.8	105.3
40°	598.1	514.3	433.4	357.5	288.9	227.4	183.3	151.9	130.0	111.4	98.7
42.5°	585.3	495.7	412.3	331.0	261.7	203.5	163.5	138.3	119.7	106.5	95.8
45°	569.2	476.3	390.5	307.5	238.6	185.3	151.9	130.8	116.4	104.8	94.9
47.5°	549.4	455.7	369.4	289.8	222.9	176.2	149.4	130.8	116.4	104.0	93.3
50°	530.8	437.1	353.3	278.6	215.9	176.7	151.9	132.5	116.0	102.4	90.4
52.5°	516.4	426.0	346.7	274.5	216.7	180.8	156.8	135.0	117.2	102.4	89.6
55°	507.3	421.4	345.9	278.2	225.4	191.9	164.7	142.4	123.0	105.7	90.8
57.5°	508.5	426.4	355.8	293.5	245.2	211.3	180.4	155.6	131.3	109.8	91.2
60°	521.3	442.9	379.7	329.4	278.2	237.3	200.2	167.2	135.0	108.6	88.3
62.5°	553.5	481.7	430.1	378.5	319.1	262.9	212.2	169.2	130.8	102.4	81.3
65°	614.6	551.5	501.9	437.5	352.9	273.7	210.9	163.0	123.0	92.5	71.8
67.5°	674.5	607.6	537.8	440.8	344.7	265.8	197.3	147.8	109.0	79.3	63.6
70°	732.2	645.6	556.0	436.7	320.7	228.7	164.7	123.4	86.7	66.0	54.5
72.5°	694.3	594.4	502.7	385.1	275.7	187.8	131.3	89.6	66.5	54.5	47.1
75°	530.0	460.6	381.0	295.5	203.5	132.5	87.5	63.6	51.2	42.9	38.4
77.5°	381.4	329.8	264.6	194.0	127.1	83.8	59.4	45.4	38.0	32.2	29.7
80°	221.2	189.9	148.2	106.9	72.6	52.4	39.6	32.2	27.7	23.5	22.7
82.5°	138.3	110.6	78.4	52.8	37.1	28.9	23.1	19.8	16.5	14.4	12.4
85°	59.9	42.9	24.4	13.6	10.3	7.8	6.2	5.4	4.5	4.1	3.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.5	2.1
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



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CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	270.4	269.5	269.1	269.1	268.3	268.3	267.5	267.9	267.5	266.6	266.2
5°	272.0	270.8	269.9	269.1	267.9	267.5	266.6	266.6	265.4	264.2	263.8
7.5°	274.1	272.4	271.2	269.5	267.9	267.1	265.4	264.6	263.3	262.1	261.7
10°	278.2	275.3	273.2	271.2	268.3	266.6	264.2	262.9	261.7	260.0	259.2
12.5°	282.7	279.0	276.1	271.2	268.3	265.4	262.9	260.5	258.0	256.3	255.9
15°	282.7	278.2	272.0	267.5	263.3	259.2	256.7	254.3	251.4	250.1	249.7
17.5°	275.7	267.9	262.1	257.2	253.4	250.1	247.7	246.4	243.9	241.5	240.6
20°	259.6	250.5	243.9	238.6	234.4	231.1	230.3	229.1	227.8	227.8	228.3
22.5°	233.2	223.3	217.5	211.7	207.2	205.6	206.0	207.2	207.6	207.2	210.1
25°	206.8	197.3	189.5	184.1	178.7	180.0	178.3	181.2	182.4	182.9	186.2
27.5°	181.2	170.9	162.6	158.1	155.6	154.0	152.7	156.4	157.3	160.2	163.0
30°	154.0	144.5	135.0	131.3	129.2	128.0	128.4	131.7	133.7	137.9	140.3
32.5°	128.8	117.2	110.2	105.3	103.2	102.8	103.2	105.7	108.1	113.5	117.2
35°	107.3	96.2	90.4	87.5	84.6	83.4	84.6	85.4	86.3	90.8	95.3
37.5°	94.9	87.1	82.6	79.7	77.6	76.4	76.4	75.9	76.4	77.2	79.3
40°	89.6	83.8	79.7	76.8	75.1	74.3	73.9	73.5	73.1	73.1	73.1
42.5°	87.5	80.9	76.8	74.3	73.5	73.5	73.5	73.1	72.2	71.4	71.0
45°	85.9	78.8	74.3	72.2	72.2	72.2	72.6	72.2	71.4	70.2	68.9
47.5°	83.0	75.9	71.8	70.2	70.2	70.2	70.6	70.2	69.3	68.5	67.3
50°	79.7	72.2	68.1	66.9	66.5	66.5	66.0	65.6	65.2	64.4	63.2
52.5°	77.6	69.8	66.0	65.2	64.4	64.0	63.2	62.7	61.9	61.5	60.3
55°	77.2	68.1	64.8	64.0	63.2	61.9	60.3	59.4	57.8	57.4	56.5
57.5°	75.9	66.5	62.7	60.7	58.6	57.4	55.7	54.9	54.1	53.2	52.4
60°	71.8	61.5	57.0	55.7	54.5	54.1	53.2	52.4	51.2	49.9	48.3
62.5°	64.0	55.3	52.4	52.0	51.6	50.8	49.9	48.7	47.9	46.2	44.6
65°	57.8	52.0	50.4	49.5	49.1	47.9	47.1	46.2	45.0	43.8	42.1
67.5°	52.4	48.3	47.5	46.2	45.8	45.0	43.8	42.9	41.7	40.5	38.8
70°	47.5	44.2	43.8	42.9	42.1	41.7	40.0	38.8	38.4	36.7	35.5
72.5°	42.1	40.0	39.2	38.4	37.6	37.1	36.3	35.5	34.7	33.0	31.4
75°	35.1	34.3	33.8	33.0	32.6	31.8	30.5	29.3	28.9	27.7	26.4
77.5°	28.1	27.2	27.2	26.4	25.2	23.9	22.7	21.1	21.1	21.1	20.2
80°	19.8	19.0	17.7	17.3	16.5	15.7	14.4	13.6	12.8	12.8	12.8
82.5°	11.6	11.1	10.3	9.1	8.3	7.8	6.6	5.8	5.4	4.5	4.5
85°	2.5	2.5	1.7	1.7	1.2	1.2	1.2	0.8	0.8	0.4	0.4
87.5°	2.1	2.1	2.1	1.7	1.7	1.7	1.2	1.2	1.2	0.8	0.8
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P159937

CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



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CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	266.2	265.8	265.0	263.3	262.9	262.5	262.9	262.9	262.5	262.9	263.3
5°	263.8	263.3	262.1	261.3	260.5	260.5	262.9	262.9	261.7	262.1	263.8
7.5°	261.7	261.7	260.9	260.5	260.9	262.1	264.2	265.8	265.4	267.9	268.7
10°	259.2	259.6	260.0	261.7	264.2	266.2	269.5	272.4	273.2	275.3	276.6
12.5°	256.7	258.4	260.5	263.8	267.1	270.4	274.1	277.4	277.8	279.9	281.5
15°	250.5	253.0	255.9	259.6	264.6	268.3	273.7	276.1	277.0	278.2	280.3
17.5°	241.1	242.3	244.4	248.5	253.8	258.8	265.0	269.1	271.6	273.2	274.1
20°	228.3	230.7	232.0	235.7	238.6	242.3	250.5	255.9	260.9	263.3	265.8
22.5°	210.5	213.4	216.3	220.0	221.7	224.1	232.0	240.2	247.7	252.6	255.5
25°	188.2	191.5	195.6	200.2	202.3	204.7	213.8	222.1	231.1	239.8	243.9
27.5°	165.9	170.1	174.2	179.6	182.9	185.7	193.6	201.4	210.9	219.2	223.3
30°	144.5	150.2	154.0	160.2	163.0	165.9	172.9	181.6	188.2	197.7	203.1
32.5°	122.2	126.3	133.3	140.3	143.6	146.5	153.1	160.6	166.3	175.8	183.7
35°	102.0	105.7	113.1	120.1	122.2	126.7	133.3	139.9	145.3	154.0	161.4
37.5°	83.0	89.2	94.9	100.3	104.8	108.1	114.3	120.1	123.0	131.3	139.1
40°	73.9	76.8	80.9	85.9	88.7	92.0	96.6	101.5	104.8	110.6	117.2
42.5°	70.6	70.6	71.8	74.3	78.0	79.7	83.8	86.3	90.8	93.3	99.1
45°	68.1	67.3	67.7	67.7	68.9	70.2	73.5	75.9	78.8	80.9	84.6
47.5°	66.0	64.4	64.0	63.2	62.7	63.6	66.0	68.1	69.3	71.0	72.2
50°	61.5	60.3	59.0	58.2	57.8	58.6	60.7	62.3	62.7	63.6	64.4
52.5°	59.0	57.4	56.1	54.9	54.9	55.7	57.4	58.6	59.0	59.4	60.3
55°	55.7	54.9	54.1	52.8	52.4	53.7	54.9	56.1	57.0	57.0	57.8
57.5°	51.6	50.8	51.6	51.2	50.8	51.6	53.2	54.5	54.9	54.9	55.3
60°	47.5	47.1	47.1	47.9	48.7	49.9	51.2	52.8	52.4	51.6	52.0
62.5°	43.8	43.3	43.8	45.0	46.2	47.5	49.1	50.4	49.1	48.3	48.3
65°	41.3	40.9	41.3	41.7	42.1	43.3	45.4	45.8	45.0	45.0	45.0
67.5°	38.0	37.6	37.1	37.6	38.0	38.4	40.0	40.5	40.5	40.5	40.5
70°	33.8	33.4	33.0	33.0	33.0	33.4	33.8	34.7	35.5	36.3	36.7
72.5°	29.3	28.5	28.5	28.5	27.7	28.1	28.5	30.1	31.0	31.8	32.6
75°	24.8	23.9	23.9	23.1	23.5	23.9	23.9	24.8	25.6	26.8	27.7
77.5°	19.4	19.4	19.4	19.0	19.0	19.4	19.8	19.8	20.6	21.9	23.1
80°	12.4	12.4	13.2	13.6	14.0	14.4	15.3	15.7	16.1	17.3	17.7
82.5°	4.5	5.0	5.4	5.4	6.6	8.3	8.7	9.9	10.7	12.0	12.0
85°	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.7	2.5	3.7	4.5
87.5°	0.8	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	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°	165°
267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	112.5°	21.2
263.8	265.0	264.6	264.2	264.6	265.4	265.0	265.4	265.8	266.6	266.2	115°	25.0
264.2	265.4	265.8	265.8	266.6	267.9	267.9	268.3	268.7	269.5	269.5	117.5°	29.5
269.9	272.8	272.8	273.2	274.5	275.7	276.1	276.6	276.1	276.1	276.1	120°	34.8
278.6	281.9	282.3	284.4	286.0	285.6	285.6	286.0	285.2	284.4	283.2	122.5°	40.9
283.2	286.0	286.9	288.9	291.4	291.8	293.1	293.9	293.1	291.0	288.9	125°	47.8
281.9	284.4	286.0	288.5	291.4	293.1	295.5	296.4	296.0	293.5	291.0	127.5°	55.3
276.6	279.4	281.5	284.8	288.1	290.6	293.1	294.3	294.3	292.2	290.6	130°	63.0
267.9	271.2	274.1	277.8	281.9	284.8	287.7	288.5	288.5	287.7	288.9	132.5°	70.5
258.8	262.5	265.8	269.5	274.9	277.8	281.1	283.6	284.8	286.5	291.8	135°	77.9
247.2	248.9	253.0	257.2	264.6	269.5	276.6	283.2	289.8	297.2	307.9	137.5°	85.3
227.0	229.9	234.9	240.6	248.1	257.2	269.9	282.7	294.7	305.9	319.1	140°	92.5
210.1	215.5	220.8	227.4	235.3	243.9	258.8	275.3	289.8	303.0	317.4	142.5°	99.2
191.9	198.5	205.6	214.2	221.7	229.5	241.9	260.0	277.4	292.2	307.5	145°	104.9
170.9	177.9	184.9	194.0	201.8	211.7	222.9	240.6	260.5	277.4	295.5	147.5°	110.1
148.2	154.4	162.2	170.5	179.6	191.1	203.1	219.6	240.2	258.4	279.0	150°	115.1
126.7	133.3	141.2	150.2	159.3	171.7	185.3	201.0	220.0	239.4	261.3	152.5°	119.7
106.5	115.2	123.4	132.5	142.0	153.5	168.0	184.9	203.9	224.5	247.7	155°	123.7
89.6	96.2	104.8	112.3	122.6	133.7	148.6	167.6	189.5	211.3	235.7	157.5°	127.0
74.7	78.8	86.3	95.3	104.8	116.4	128.8	147.8	170.1	194.0	221.2	160°	130.3
65.6	67.7	73.1	81.3	90.4	102.0	112.7	129.2	151.5	175.0	203.1	162.5°	133.5
61.1	61.9	64.8	71.0	79.7	90.0	101.5	115.6	135.4	158.5	185.3	165°	136.0
58.6	59.0	59.9	64.4	71.8	81.3	92.9	104.0	121.8	143.6	169.6	167.5°	137.1
55.7	56.1	56.5	59.0	64.4	72.6	82.6	91.6	107.7	127.1	151.9	170°	137.4
52.8	53.7	54.5	55.3	59.0	64.4	71.8	79.7	90.8	107.7	128.0	172.5°	138.6
49.1	49.9	51.2	52.0	53.2	56.5	61.1	66.0	71.8	83.8	100.3	175°	140.5
45.8	46.6	47.1	47.5	48.3	49.1	50.8	52.0	54.9	61.9	73.5	177.5°	141.1
41.3	42.1	42.1	42.5	42.9	42.9	43.8	44.2	45.0	47.1	52.0	180°	140.8
37.6	38.0	38.4	38.8	38.8	38.8	38.4	38.8	38.4	38.4	40.5		
33.0	33.4	33.8	34.3	34.7	35.1	35.5	35.5	35.1	34.3	34.3		
28.1	28.1	28.9	29.3	29.7	31.0	31.8	31.0	31.0	30.5	30.5		
23.5	24.4	24.8	24.8	25.6	26.8	27.7	27.2	26.0	26.0	26.4		
18.2	18.6	19.0	19.4	19.8	21.1	22.3	22.7	21.9	22.3	22.3		
12.0	12.4	13.2	13.6	14.0	15.3	16.5	17.7	17.3	18.2	17.3		
5.4	6.2	6.6	6.6	7.8	9.1	10.7	12.0	13.6	14.0	12.8		
0.0	0.4	0.4	0.4	1.7	2.9	5.4	8.3	11.1	8.7	6.6		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8		
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8		
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7		
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8		

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TION (continued):

CANDELA DISTRIBUTION (con

170°	175°	180°	185°	190°	195°	200°	205°	210°	215°		220°	225°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	267.9	267.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	266.2	266.6
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	269.9	269.9
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	275.3	275.3
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	282.3	281.1
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	286.5	284.4
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	288.9	286.9
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	289.8	289.8
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	291.8	295.1
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	298.8	307.1
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	319.5	331.0
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	335.6	350.8
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	336.8	355.8
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	329.4	350.0
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	318.2	341.8
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	304.6	331.0
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	288.9	316.2
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	274.5	302.6
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	264.2	293.9
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	253.0	284.8
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	235.3	272.8
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	216.3	253.8
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	199.0	234.9
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	180.4	216.7
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	156.0	192.3
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	124.7	158.9
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	89.6	118.5
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	60.7	80.5
										70°	44.2	54.9
										72.5°	35.9	41.3
										75°	31.8	34.7
										77.5°	28.1	29.7
										80°	22.3	23.9
										82.5°	17.3	19.0
										85°	12.8	14.0
										87.5°	5.8	5.8
										90°	0.1	0.1
										92.5°	0.1	0.1
										95°	0.5	0.5
										97.5°	1.5	1.5
										100°	5.0	5.0
										102.5°	8.8	8.8
										105°	11.8	11.8
										107.5°	14.7	14.7
										110°	17.8	17.8

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LED-E1-SLR-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	112.5°	21.2	21.2	21.2
267.1	267.5	267.5	268.3	268.7	269.5	269.9	269.9	269.9	115°	25.0	25.0	25.0
270.8	271.2	271.6	272.8	273.2	274.5	275.7	276.1	277.4	117.5°	29.5	29.5	29.5
275.3	276.6	277.0	277.8	278.6	280.7	282.3	283.2	284.4	120°	34.8	34.8	34.8
280.7	281.1	281.1	281.9	284.0	285.2	287.3	291.0	293.5	122.5°	40.9	40.9	40.9
284.4	283.2	284.0	284.8	286.9	289.8	293.1	298.4	303.4	125°	47.8	47.8	47.8
286.9	286.9	288.9	290.6	294.3	298.8	305.0	312.5	319.9	127.5°	55.3	55.3	55.3
291.4	292.6	297.2	300.5	307.1	313.7	321.5	331.9	343.0	130°	63.0	63.0	63.0
299.7	303.0	307.9	313.3	319.9	329.8	343.0	356.2	371.1	132.5°	70.5	70.5	70.5
312.9	320.3	328.6	335.2	343.0	357.0	371.5	388.0	406.6	135°	77.9	77.9	77.9
341.8	350.0	362.4	373.6	384.7	404.9	423.5	442.5	467.7	137.5°	85.3	85.3	85.3
366.9	380.2	399.6	415.7	430.9	455.3	475.9	507.3	534.1	140°	92.5	92.5	92.5
377.7	399.1	423.5	446.6	475.1	499.0	529.6	567.1	602.2	142.5°	99.2	99.2	99.2
375.2	401.2	431.7	463.1	497.0	535.4	570.4	612.5	658.4	145°	104.9	104.9	104.9
369.4	398.7	434.2	471.8	512.2	560.1	604.3	656.7	713.7	147.5°	110.1	110.1	110.1
362.4	396.7	436.3	480.5	531.2	588.2	645.1	713.7	784.7	150°	115.1	115.1	115.1
351.7	390.9	438.8	493.7	556.0	622.9	697.6	779.3	855.7	152.5°	119.7	119.7	119.7
339.7	383.9	441.7	511.8	590.3	673.2	759.5	842.9	930.0	155°	123.7	123.7	123.7
331.9	381.8	449.1	532.9	624.1	720.3	816.4	907.7	1002.6	157.5°	127.0	127.0	127.0
327.3	383.0	456.9	548.6	649.3	755.4	857.3	962.1	1061.6	160°	130.3	130.3	130.3
323.2	386.3	463.9	558.5	665.4	778.1	889.5	1002.6	1112.8	162.5°	133.5	133.5	133.5
312.5	385.1	466.4	561.4	673.6	792.9	911.8	1031.1	1148.3	165°	136.0	136.0	136.0
293.9	373.6	461.1	558.5	676.1	801.6	926.2	1052.1	1168.5	167.5°	137.1	137.1	137.1
269.1	350.0	442.1	546.1	667.4	797.5	931.2	1065.8	1180.1	170°	137.4	137.4	137.4
241.5	313.3	408.6	517.6	639.4	772.3	909.3	1053.0	1166.9	172.5°	138.6	138.6	138.6
203.5	267.5	363.2	469.3	588.2	720.3	844.5	1001.4	1117.3	175°	140.5	140.5	140.5
155.6	212.6	295.1	403.3	524.2	639.8	752.5	909.3	1038.1	177.5°	141.1	141.1	141.1
107.3	151.5	220.8	315.4	428.4	534.9	647.2	793.7	944.0	180°	140.8	140.8	140.8
69.8	98.2	146.1	218.8	308.3	406.6	499.9	634.0	795.0				
49.5	62.7	89.2	135.0	203.1	279.0	355.4	446.2	599.7				
39.2	45.8	54.9	78.4	118.9	173.8	235.3	292.6	421.0				
31.8	34.7	39.2	48.3	70.2	100.3	138.7	184.5	261.7				
25.6	27.7	30.5	34.3	43.3	57.8	80.5	101.5	149.4				
20.6	23.1	23.9	24.4	28.1	33.0	42.5	57.4	85.4				
14.9	15.7	15.7	16.1	16.9	18.2	24.4	42.1	62.3				
5.8	5.0	5.4	4.1	4.5	5.0	7.8	9.1	14.4				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8				
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8				



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CANDELA DISTRIBUTION (continued):

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	267.9	267.9	267.9	267.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	271.2	271.2	270.8	270.8
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	278.2	279.4	278.6	279.9
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	287.3	288.1	288.9	290.6
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	296.8	299.7	302.6	303.8
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	307.9	313.3	319.1	322.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	327.3	335.6	342.2	346.7
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	352.9	364.1	375.2	383.0
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	385.5	401.6	417.3	427.2
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	426.8	445.8	463.1	482.1
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	483.8	510.2	540.7	557.2
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	565.1	601.0	622.4	659.2
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	642.7	686.8	738.8	789.6
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	708.3	773.1	849.5	926.7
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	777.2	859.4	947.7	1046.8
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	859.8	944.8	1040.2	1148.7
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	934.9	1031.9	1148.7	1249.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1017.9	1121.1	1252.7	1368.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	1098.4	1206.1	1350.1	1477.3
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1168.9	1277.1	1430.6	1563.1
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	1225.5	1346.0	1495.9	1623.0
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1269.7	1397.2	1545.4	1664.3
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	1292.8	1421.6	1560.7	1681.6
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1296.1	1419.9	1547.9	1665.9
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	1264.7	1374.5	1496.7	1620.1
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1194.5	1280.4	1396.4	1518.6
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	1104.6	1160.7	1237.9	1357.6
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1016.2	1053.4	1093.8	1182.2
								70°	880.4	911.4	951.8	1006.7
								72.5°	684.8	725.6	754.5	807.8
								75°	514.7	538.2	579.9	629.0
								77.5°	362.0	385.9	433.4	489.5
								80°	243.1	259.6	288.9	337.2
								82.5°	149.0	168.0	192.8	234.4
								85°	99.9	129.6	161.4	192.8
								87.5°	42.1	71.0	90.0	94.5
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8



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CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
267.9	267.9	267.9	267.9	267.9	267.9	267.9	112.5°	21.2	21.2	21.2	21.2	21.2
272.0	271.6	272.4	272.4	272.0	272.0	273.2	115°	25.0	25.0	25.0	25.0	25.0
280.7	281.1	281.9	281.1	282.7	280.7	281.1	117.5°	29.5	29.5	29.5	29.5	29.5
292.6	293.1	294.3	293.9	295.1	293.9	292.2	120°	34.8	34.8	34.8	34.8	34.8
307.9	308.7	308.7	310.8	312.9	310.4	307.5	122.5°	40.9	40.9	40.9	40.9	40.9
325.7	328.6	327.3	331.4	333.5	331.9	329.8	125°	47.8	47.8	47.8	47.8	47.8
350.0	355.8	355.0	362.8	365.7	364.5	364.9	127.5°	55.3	55.3	55.3	55.3	55.3
386.3	394.6	395.8	408.2	416.1	414.8	412.8	130°	63.0	63.0	63.0	63.0	63.0
428.4	449.9	454.9	465.6	474.3	477.6	477.2	132.5°	70.5	70.5	70.5	70.5	70.5
499.9	515.5	526.7	546.1	553.9	561.4	559.3	135°	77.9	77.9	77.9	77.9	77.9
581.2	595.6	620.4	645.1	653.0	660.0	669.1	137.5°	85.3	85.3	85.3	85.3	85.3
685.2	706.2	745.4	778.9	797.9	792.1	789.2	140°	92.5	92.5	92.5	92.5	92.5
825.9	878.8	907.7	934.9	947.3	929.1	906.0	142.5°	99.2	99.2	99.2	99.2	99.2
994.3	1056.3	1074.4	1087.6	1064.1	1039.3	971.6	145°	104.9	104.9	104.9	104.9	104.9
1117.8	1178.4	1216.0	1230.0	1179.7	1106.2	1014.6	147.5°	110.1	110.1	110.1	110.1	110.1
1229.2	1290.7	1307.2	1313.4	1245.7	1150.8	1061.6	150°	115.1	115.1	115.1	115.1	115.1
1347.7	1399.3	1408.8	1405.5	1315.5	1203.2	1119.8	152.5°	119.7	119.7	119.7	119.7	119.7
1455.4	1508.2	1499.6	1485.1	1382.8	1269.2	1177.2	155°	123.7	123.7	123.7	123.7	123.7
1557.8	1596.6	1580.9	1545.0	1446.3	1320.0	1222.2	157.5°	127.0	127.0	127.0	127.0	127.0
1626.3	1658.9	1642.0	1596.6	1490.1	1354.3	1247.0	160°	130.3	130.3	130.3	130.3	130.3
1678.3	1703.1	1693.2	1627.5	1515.7	1375.3	1258.1	162.5°	133.5	133.5	133.5	133.5	133.5
1704.3	1728.6	1722.9	1633.3	1519.0	1378.6	1252.7	165°	136.0	136.0	136.0	136.0	136.0
1713.8	1741.4	1721.2	1611.8	1497.1	1366.2	1234.2	167.5°	137.1	137.1	137.1	137.1	137.1
1705.9	1718.7	1689.0	1571.0	1452.5	1327.9	1207.7	170°	137.4	137.4	137.4	137.4	137.4
1677.1	1668.0	1627.1	1500.0	1389.4	1274.6	1178.4	172.5°	138.6	138.6	138.6	138.6	138.6
1596.2	1572.6	1539.6	1417.8	1305.2	1190.4	1133.0	175°	140.5	140.5	140.5	140.5	140.5
1429.4	1422.8	1407.5	1317.1	1205.3	1095.9	1059.1	177.5°	141.1	141.1	141.1	141.1	141.1
1215.6	1209.0	1211.0	1150.0	1069.1	962.6	963.4	180°	140.8	140.8	140.8	140.8	140.8
1042.2	1005.9	963.0	897.3	850.3	835.8	882.5						
838.7	818.9	783.8	726.5	673.2	691.8	796.2						
648.4	636.5	662.1	668.7	648.0	635.7	671.2						
531.2	557.2	598.1	650.1	655.1	636.9	569.6						
404.5	472.2	528.7	598.9	591.5	552.3	478.8						
283.2	348.8	402.0	461.1	459.0	423.1	386.8						
216.7	237.3	257.6	319.5	343.4	315.8	276.1						
102.4	103.2	124.2	153.1	164.3	187.4	184.9						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.5	1.5	1.5	1.5	1.5	1.5	1.5						
5.0	5.0	5.0	5.0	5.0	5.0	5.0						
8.8	8.8	8.8	8.8	8.8	8.8	8.8						
11.8	11.8	11.8	11.8	11.8	11.8	11.8						
14.7	14.7	14.7	14.7	14.7	14.7	14.7						
17.8	17.8	17.8	17.8	17.8	17.8	17.8						



REPORT NUMBER: P159937

CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
21.2	21.2	21.2	21.2	21.2	21.2	0°	267.9	267.9	267.9	267.9	267.9	267.9
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	273.7	273.2	273.2	273.2	273.7	273.2
29.5	29.5	29.5	29.5	29.5	29.5	5°	281.9	281.1	280.7	280.7	280.3	280.3
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	292.6	291.0	291.0	289.8	289.3	288.1
40.9	40.9	40.9	40.9	40.9	40.9	10°	307.1	305.4	305.0	301.7	301.7	298.8
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	328.1	328.1	328.1	324.0	323.2	318.2
55.3	55.3	55.3	55.3	55.3	55.3	15°	364.5	361.2	364.1	357.0	356.6	350.0
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	413.6	413.6	407.8	404.5	402.4	392.9
70.5	70.5	70.5	70.5	70.5	70.5	20°	478.8	479.2	469.3	460.2	456.1	445.4
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	561.8	553.9	541.5	534.9	528.3	510.6
85.3	85.3	85.3	85.3	85.3	85.3	25°	670.7	667.4	645.6	621.6	611.7	584.9
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	777.6	770.6	735.5	694.7	669.5	632.8
99.2	99.2	99.2	99.2	99.2	99.2	30°	871.8	825.5	783.8	734.7	696.3	650.5
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	920.9	862.7	802.0	761.5	713.3	662.5
110.1	110.1	110.1	110.1	110.1	110.1	35°	958.8	896.5	836.3	783.8	729.4	672.0
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1007.1	941.5	875.1	812.7	746.3	679.0
119.7	119.7	119.7	119.7	119.7	119.7	40°	1060.8	985.7	903.5	828.0	753.3	676.5
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1105.4	1014.6	918.0	833.0	750.8	666.2
127.0	127.0	127.0	127.0	127.0	127.0	45°	1130.1	1026.5	919.2	827.6	740.9	653.4
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1141.7	1027.0	911.0	815.6	727.7	635.2
133.5	133.5	133.5	133.5	133.5	133.5	50°	1140.5	1016.6	895.3	799.5	712.8	616.3
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1128.1	999.7	877.1	786.7	700.0	600.2
137.1	137.1	137.1	137.1	137.1	137.1	55°	1109.1	981.5	859.0	778.1	689.3	586.9
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1087.6	965.9	845.8	776.4	683.1	584.5
138.6	138.6	138.6	138.6	138.6	138.6	60°	1078.1	967.5	854.0	764.8	679.8	589.8
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1071.9	983.2	870.9	772.7	685.2	612.5
141.1	141.1	141.1	141.1	141.1	141.1	65°	1046.8	1005.1	896.9	800.8	724.0	665.8
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1016.6	1011.3	907.3	817.3	768.2	735.1
						70°	985.3	1004.7	922.1	860.6	833.4	820.2
						72.5°	934.9	957.2	880.4	843.7	835.4	825.9
						75°	779.7	783.8	725.2	705.0	719.4	697.2
						77.5°	560.5	571.3	533.3	538.7	585.7	537.4
						80°	415.2	373.1	349.2	365.3	410.3	341.4
						82.5°	342.2	277.0	234.9	256.7	274.1	201.4
						85°	263.3	211.3	173.8	140.3	133.7	86.3
						87.5°	206.8	152.7	85.0	47.9	32.2	2.1
						90°	0.1	0.1	0.1	0.1	0.1	0.1
						92.5°	0.1	0.1	0.1	0.1	0.1	0.1
						95°	0.5	0.5	0.5	0.5	0.5	0.5
						97.5°	1.5	1.5	1.5	1.5	1.5	1.5
						100°	5.0	5.0	5.0	5.0	5.0	5.0
						102.5°	8.8	8.8	8.8	8.8	8.8	8.8
						105°	11.8	11.8	11.8	11.8	11.8	11.8
						107.5°	14.7	14.7	14.7	14.7	14.7	14.7
						110°	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P159937

CATALOG NUMBER: ENC-F01-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
267.9	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
273.7	115°	25.0	25.0	25.0	25.0	25.0	25.0
280.3	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
288.1	120°	34.8	34.8	34.8	34.8	34.8	34.8
300.1	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
317.4	125°	47.8	47.8	47.8	47.8	47.8	47.8
348.4	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
388.4	130°	63.0	63.0	63.0	63.0	63.0	63.0
437.5	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
492.8	135°	77.9	77.9	77.9	77.9	77.9	77.9
556.0	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
594.8	140°	92.5	92.5	92.5	92.5	92.5	92.5
603.0	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
608.8	145°	104.9	104.9	104.9	104.9	104.9	104.9
610.5	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
608.0	150°	115.1	115.1	115.1	115.1	115.1	115.1
598.1	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
585.3	155°	123.7	123.7	123.7	123.7	123.7	123.7
569.2	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
549.4	160°	130.3	130.3	130.3	130.3	130.3	130.3
530.8	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
516.4	165°	136.0	136.0	136.0	136.0	136.0	136.0
507.3	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
508.5	170°	137.4	137.4	137.4	137.4	137.4	137.4
521.3	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
553.5	175°	140.5	140.5	140.5	140.5	140.5	140.5
614.6	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
674.5	180°	140.8	140.8	140.8	140.8	140.8	140.8
732.2							
694.3							
530.0							
381.4							
221.2							
138.3							
59.9							
2.1							
0.1							
0.1							
0.5							
1.5							
5.0							
8.8							
11.8							
14.7							
17.8							

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

Scaled Data Report



(REPORT)