

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: P160174

Luminaire Tested: **ENV-F01-LED-E1-SLR-7050-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160174
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: ENV-F01-LED-E1-SLR-7050-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2377.8 lumens
Efficiency: N/A
Efficacy: 70.1 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

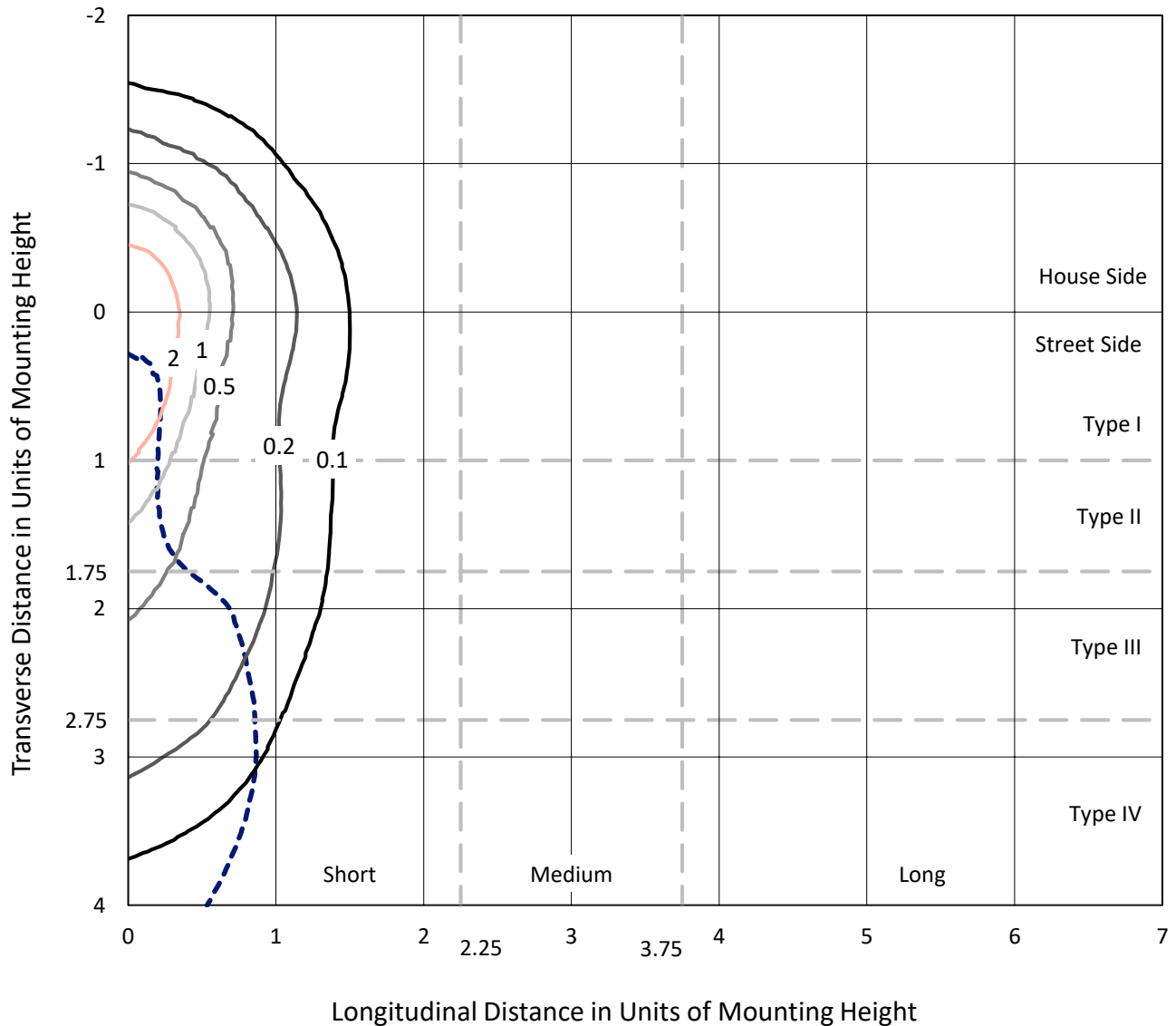
Input Watts (W): 33.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

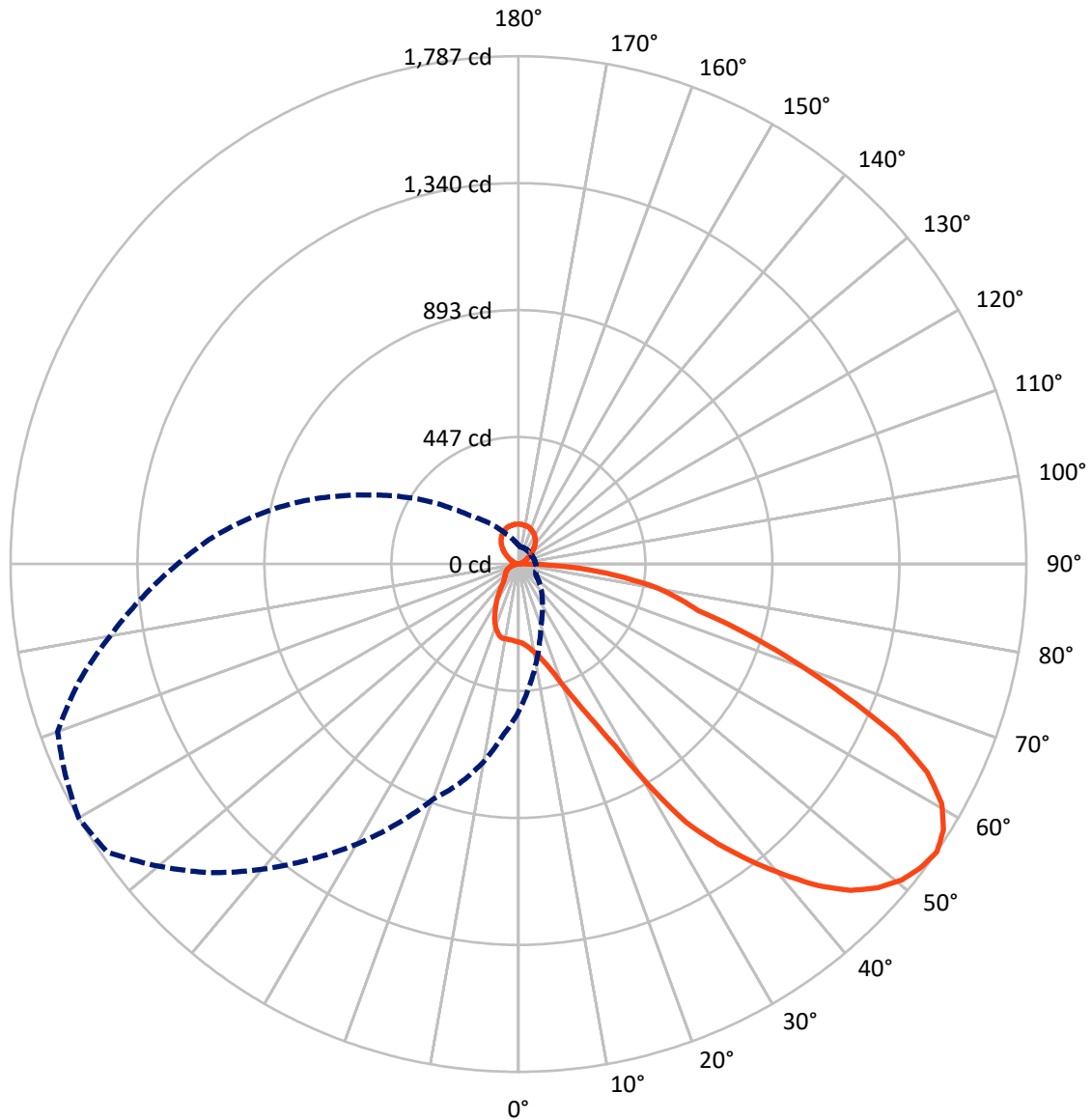
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 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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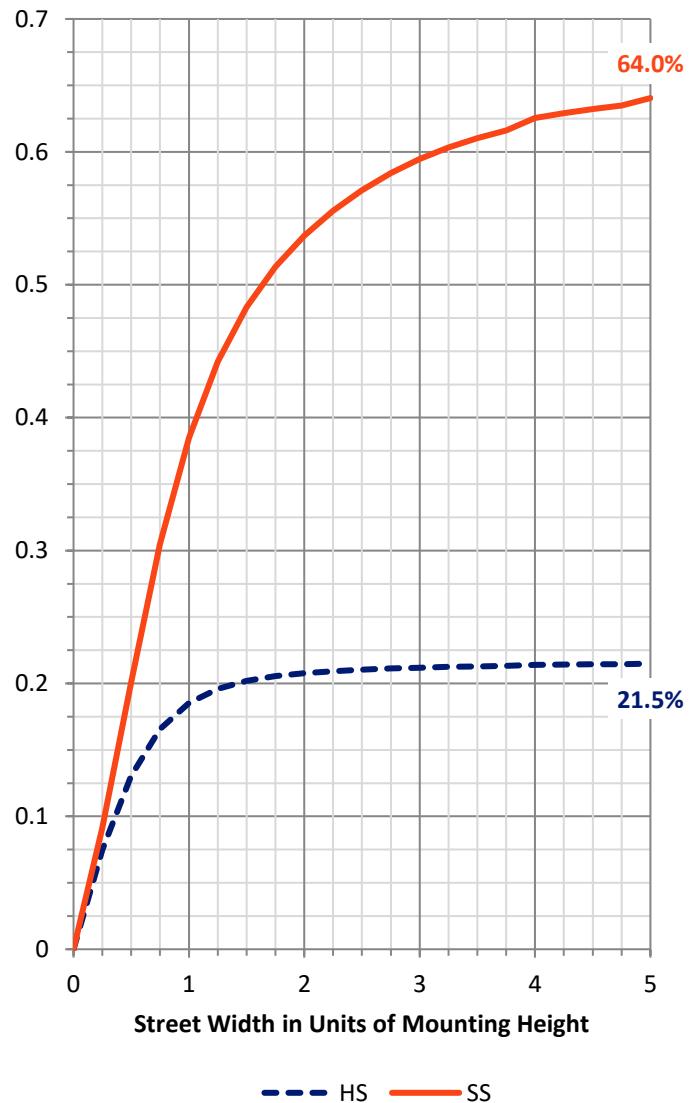
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.5	157.7	673.2
	% Fixture	21.7	6.6	28.3
Street Side	Lumens	1546.8	157.7	1704.6
	% Fixture	65.1	6.6	71.7
Total	Lumens	2062.3	315.5	2377.8
	% Fixture	86.7	13.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	1.1
10°-20°	89.0	3.7
20°-30°	172.7	7.3
30°-40°	271.4	11.4
40°-50°	362.8	15.3
50°-60°	425.7	17.9
60°-70°	403.8	17.0
70°-80°	243.8	10.3
80°-90°	66.0	2.8
90°-100°	1.3	0.1
100°-110°	12.3	0.5
110°-120°	25.2	1.1
120°-130°	43.0	1.8
130°-140°	60.0	2.5
140°-150°	65.4	2.7
150°-160°	56.9	2.4
160°-170°	38.2	1.6
170°-180°	13.3	0.6
0°-90°	2062.3	86.7
0°-180°	2377.8	100.0



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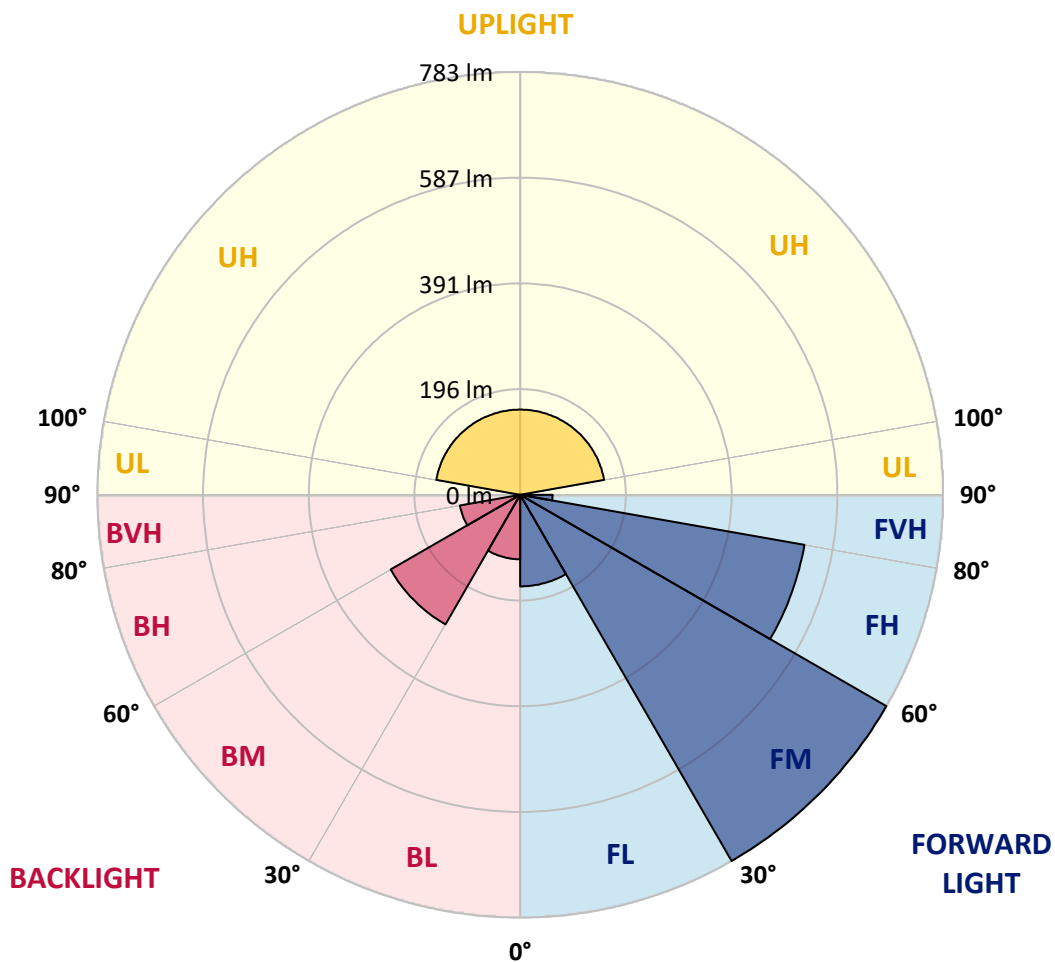
CATALOG NUMBER: ENV-F01-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.5	7.1			
FM	(30°-60°)	782.9	32.9			
FH	(60°-80°)	534.4	22.5			G0/660
FVH	(80°-90°)	60.1	2.5			G1/100
BL	(0°-30°)	119.3	5.0	B1/500		
BM	(30°-60°)	277.0	11.6	B1/1000		
BH	(60°-80°)	113.2	4.8	B1/500		G1/500
BVH	(80°-90°)	6.0	0.3			G0/10
UL	(90°-100°)	1.3	0.1		U1/10	
UH	(100°-180°)	157.7	6.6		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°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	280.8	282.9	280.4	280.8	280.0	279.1	279.5	279.1	278.3	278.3	277.4
5°	287.6	288.0	286.3	285.9	285.0	283.8	284.2	282.9	282.1	281.2	279.5
7.5°	295.6	295.2	293.1	291.8	291.4	289.3	288.9	287.2	285.9	284.6	282.5
10°	307.9	304.5	302.0	299.9	299.0	296.5	294.4	293.5	291.4	288.4	286.7
12.5°	325.7	323.6	318.5	314.3	311.7	308.3	305.4	303.3	299.9	295.6	293.5
15°	357.5	350.7	344.8	338.4	333.3	327.8	320.6	315.1	309.2	302.0	296.5
17.5°	398.5	390.1	380.8	370.6	360.0	348.1	334.2	323.6	311.7	299.4	291.0
20°	449.0	433.3	420.1	400.7	381.2	362.5	340.5	321.9	304.9	288.9	276.6
22.5°	505.7	482.0	455.3	425.7	394.3	365.5	334.6	309.2	284.6	264.7	250.7
25°	570.5	533.2	492.6	447.7	402.8	360.0	321.9	290.1	263.9	240.1	224.5
27.5°	610.3	559.5	510.8	457.4	406.2	356.6	310.0	273.2	243.1	217.7	199.5
30°	618.8	567.5	510.4	452.3	399.4	345.2	294.4	253.3	219.8	193.1	174.9
32.5°	624.7	565.4	501.9	437.5	379.9	322.7	271.1	230.4	194.8	168.6	147.4
35°	626.4	557.4	485.8	414.2	353.7	295.2	243.5	200.8	169.8	144.0	124.9
37.5°	623.9	544.2	464.2	390.1	325.3	264.3	213.5	176.2	149.9	124.9	108.0
40°	613.7	527.7	444.7	366.8	296.5	233.4	188.1	155.9	133.4	114.4	101.2
42.5°	600.6	508.7	423.1	339.7	268.5	208.8	167.7	141.9	122.8	109.3	98.3
45°	584.1	488.8	400.7	315.5	244.8	190.2	155.9	134.3	119.4	107.6	97.4
47.5°	563.7	467.6	379.1	297.3	228.7	180.9	153.3	134.3	119.4	106.7	95.7
50°	544.7	448.5	362.5	285.9	221.5	181.3	155.9	136.0	119.0	105.0	92.8
52.5°	529.8	437.1	355.8	281.7	222.4	185.5	160.9	138.5	120.3	105.0	91.9
55°	520.5	432.4	354.9	285.5	231.3	196.9	169.0	146.1	126.2	108.4	93.2
57.5°	521.8	437.5	365.1	301.1	251.6	216.9	185.1	159.7	134.7	112.7	93.6
60°	534.9	454.5	389.7	338.0	285.5	243.5	205.4	171.5	138.5	111.4	90.6
62.5°	568.0	494.3	441.3	388.4	327.4	269.8	217.7	173.7	134.3	105.0	83.4
65°	630.6	565.8	515.0	449.0	362.1	280.8	216.4	167.3	126.2	94.9	73.7
67.5°	692.1	623.4	551.9	452.3	353.7	272.8	202.5	151.6	111.8	81.3	65.2
70°	751.4	662.4	570.5	448.1	329.1	234.6	169.0	126.6	88.9	67.8	55.9
72.5°	712.4	609.9	515.9	395.2	282.9	192.7	134.7	91.9	68.2	55.9	48.3
75°	543.8	472.7	390.9	303.3	208.8	136.0	89.8	65.2	52.5	44.0	39.4
77.5°	391.3	338.4	271.5	199.1	130.4	86.0	61.0	46.6	39.0	33.0	30.5
80°	227.0	194.8	152.1	109.7	74.5	53.8	40.7	33.0	28.4	24.1	23.3
82.5°	141.9	113.5	80.5	54.2	38.1	29.6	23.7	20.3	16.9	14.8	12.7
85°	61.4	44.0	25.0	14.0	10.6	8.0	6.4	5.5	4.7	4.2	3.4
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: ENV-F01-LED-E1-SLR-7050-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: ENV-F01-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	277.4	276.6	276.1	276.1	275.3	275.3	274.5	274.9	274.5	273.6	273.2
5°	279.1	277.8	277.0	276.1	274.9	274.5	273.6	273.6	272.3	271.1	270.6
7.5°	281.2	279.5	278.3	276.6	274.9	274.0	272.3	271.5	270.2	268.9	268.5
10°	285.5	282.5	280.4	278.3	275.3	273.6	271.1	269.8	268.5	266.8	266.0
12.5°	290.1	286.3	283.3	278.3	275.3	272.3	269.8	267.3	264.7	263.0	262.6
15°	290.1	285.5	279.1	274.5	270.2	266.0	263.4	260.9	257.9	256.7	256.2
17.5°	282.9	274.9	268.9	263.9	260.1	256.7	254.1	252.9	250.3	247.8	246.9
20°	266.4	257.1	250.3	244.8	240.6	237.2	236.3	235.1	233.8	233.8	234.2
22.5°	239.3	229.1	223.2	217.3	212.6	210.9	211.3	212.6	213.0	212.6	215.6
25°	212.2	202.5	194.4	188.9	183.4	184.7	183.0	185.9	187.2	187.6	191.0
27.5°	185.9	175.3	166.9	162.2	159.7	158.0	156.7	160.5	161.4	164.3	167.3
30°	158.0	148.2	138.5	134.7	132.6	131.3	131.7	135.1	137.2	141.5	144.0
32.5°	132.1	120.3	113.1	108.0	105.9	105.5	105.9	108.4	111.0	116.5	120.3
35°	110.1	98.7	92.8	89.8	86.8	85.6	86.8	87.7	88.5	93.2	97.8
37.5°	97.4	89.4	84.7	81.7	79.6	78.4	78.4	77.9	78.4	79.2	81.3
40°	91.9	86.0	81.7	78.8	77.1	76.2	75.8	75.4	75.0	75.0	75.0
42.5°	89.8	83.0	78.8	76.2	75.4	75.4	75.4	75.0	74.1	73.3	72.8
45°	88.1	80.9	76.2	74.1	74.1	74.1	74.5	74.1	73.3	72.0	70.7
47.5°	85.1	77.9	73.7	72.0	72.0	72.0	72.4	72.0	71.2	70.3	69.0
50°	81.7	74.1	69.9	68.6	68.2	68.2	67.8	67.3	66.9	66.1	64.8
52.5°	79.6	71.6	67.8	66.9	66.1	65.6	64.8	64.4	63.5	63.1	61.8
55°	79.2	69.9	66.5	65.6	64.8	63.5	61.8	61.0	59.3	58.9	58.0
57.5°	77.9	68.2	64.4	62.3	60.1	58.9	57.2	56.3	55.5	54.6	53.8
60°	73.7	63.1	58.4	57.2	55.9	55.5	54.6	53.8	52.5	51.2	49.6
62.5°	65.6	56.8	53.8	53.4	52.9	52.1	51.2	50.0	49.1	47.4	45.7
65°	59.3	53.4	51.7	50.8	50.4	49.1	48.3	47.4	46.2	44.9	43.2
67.5°	53.8	49.6	48.7	47.4	47.0	46.2	44.9	44.0	42.8	41.5	39.8
70°	48.7	45.3	44.9	44.0	43.2	42.8	41.1	39.8	39.4	37.7	36.4
72.5°	43.2	41.1	40.2	39.4	38.5	38.1	37.3	36.4	35.6	33.9	32.2
75°	36.0	35.2	34.7	33.9	33.5	32.6	31.3	30.1	29.6	28.4	27.1
77.5°	28.8	28.0	28.0	27.1	25.8	24.6	23.3	21.6	21.6	21.6	20.8
80°	20.3	19.5	18.2	17.8	16.9	16.1	14.8	14.0	13.1	13.1	13.1
82.5°	11.9	11.4	10.6	9.3	8.5	8.0	6.8	5.9	5.5	4.7	4.7
85°	2.5	2.5	1.7	1.7	1.3	1.3	1.3	0.8	0.8	0.4	0.4
87.5°	2.1	2.1	2.1	1.7	1.7	1.7	1.3	1.3	1.3	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: P160174

CATALOG NUMBER: ENV-F01-LED-E1-SLR-7050-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: ENV-F01-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9
2.5°	273.2	272.8	271.9	270.2	269.8	269.4	269.8	269.8	269.4	269.8	270.2
5°	270.6	270.2	268.9	268.1	267.3	267.3	269.8	269.8	268.5	268.9	270.6
7.5°	268.5	268.5	267.7	267.3	267.7	268.9	271.1	272.8	272.3	274.9	275.7
10°	266.0	266.4	266.8	268.5	271.1	273.2	276.6	279.5	280.4	282.5	283.8
12.5°	263.4	265.1	267.3	270.6	274.0	277.4	281.2	284.6	285.0	287.2	288.9
15°	257.1	259.6	262.6	266.4	271.5	275.3	280.8	283.3	284.2	285.5	287.6
17.5°	247.3	248.6	250.7	255.0	260.5	265.6	271.9	276.1	278.7	280.4	281.2
20°	234.2	236.8	238.0	241.8	244.8	248.6	257.1	262.6	267.7	270.2	272.8
22.5°	216.0	219.0	221.9	225.7	227.4	230.0	238.0	246.5	254.1	259.2	262.2
25°	193.1	196.5	200.8	205.4	207.5	210.1	219.4	227.9	237.2	246.1	250.3
27.5°	170.3	174.5	178.7	184.2	187.6	190.6	198.6	206.7	216.4	224.9	229.1
30°	148.2	154.2	158.0	164.3	167.3	170.3	177.5	186.4	193.1	202.9	208.4
32.5°	125.4	129.6	136.8	144.0	147.4	150.4	157.1	164.8	170.7	180.4	188.5
35°	104.6	108.4	116.0	123.2	125.4	130.0	136.8	143.6	149.1	158.0	165.6
37.5°	85.1	91.5	97.4	102.9	107.6	111.0	117.3	123.2	126.2	134.7	142.7
40°	75.8	78.8	83.0	88.1	91.1	94.4	99.1	104.2	107.6	113.5	120.3
42.5°	72.4	72.4	73.7	76.2	80.0	81.7	86.0	88.5	93.2	95.7	101.6
45°	69.9	69.0	69.5	69.5	70.7	72.0	75.4	77.9	80.9	83.0	86.8
47.5°	67.8	66.1	65.6	64.8	64.4	65.2	67.8	69.9	71.2	72.8	74.1
50°	63.1	61.8	60.6	59.7	59.3	60.1	62.3	64.0	64.4	65.2	66.1
52.5°	60.6	58.9	57.6	56.3	56.3	57.2	58.9	60.1	60.6	61.0	61.8
55°	57.2	56.3	55.5	54.2	53.8	55.1	56.3	57.6	58.4	58.4	59.3
57.5°	52.9	52.1	52.9	52.5	52.1	52.9	54.6	55.9	56.3	56.3	56.8
60°	48.7	48.3	48.3	49.1	50.0	51.2	52.5	54.2	53.8	52.9	53.4
62.5°	44.9	44.5	44.9	46.2	47.4	48.7	50.4	51.7	50.4	49.6	49.6
65°	42.4	41.9	42.4	42.8	43.2	44.5	46.6	47.0	46.2	46.2	46.2
67.5°	39.0	38.5	38.1	38.5	39.0	39.4	41.1	41.5	41.5	41.5	41.5
70°	34.7	34.3	33.9	33.9	33.9	34.3	34.7	35.6	36.4	37.3	37.7
72.5°	30.1	29.2	29.2	29.2	28.4	28.8	29.2	30.9	31.8	32.6	33.5
75°	25.4	24.6	24.6	23.7	24.1	24.6	24.6	25.4	26.3	27.5	28.4
77.5°	19.9	19.9	19.9	19.5	19.5	19.9	20.3	20.3	21.2	22.4	23.7
80°	12.7	12.7	13.6	14.0	14.4	14.8	15.7	16.1	16.5	17.8	18.2
82.5°	4.7	5.1	5.5	5.5	6.8	8.5	8.9	10.2	11.0	12.3	12.3
85°	0.4	0.4	0.4	0.4	0.4	0.8	1.3	1.7	2.5	3.8	4.7
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°	
274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	112.5°	21.2
270.6	271.9	271.5	271.1	271.5	272.3	271.9	272.3	272.8	273.6	273.2	115°	25.0
271.1	272.3	272.8	272.8	273.6	274.9	274.9	275.3	275.7	276.6	276.6	117.5°	29.5
277.0	280.0	280.0	280.4	281.7	282.9	283.3	283.8	283.3	283.3	283.3	120°	34.8
285.9	289.3	289.7	291.8	293.5	293.1	293.1	293.5	292.7	291.8	290.5	122.5°	40.9
290.5	293.5	294.4	296.5	299.0	299.4	300.7	301.6	300.7	298.6	296.5	125°	47.8
289.3	291.8	293.5	296.1	299.0	300.7	303.3	304.1	303.7	301.1	298.6	127.5°	55.3
283.8	286.7	288.9	292.2	295.6	298.2	300.7	302.0	302.0	299.9	298.2	130°	63.0
274.9	278.3	281.2	285.0	289.3	292.2	295.2	296.1	296.1	295.2	296.5	132.5°	70.5
265.6	269.4	272.8	276.6	282.1	285.0	288.4	291.0	292.2	293.9	299.4	135°	77.9
253.7	255.4	259.6	263.9	271.5	276.6	283.8	290.5	297.3	304.9	316.0	137.5°	85.3
232.9	235.9	241.0	246.9	254.5	263.9	277.0	290.1	302.4	313.8	327.4	140°	92.5
215.6	221.1	226.6	233.4	241.4	250.3	265.6	282.5	297.3	310.9	325.7	142.5°	99.2
196.9	203.7	210.9	219.8	227.4	235.5	248.2	266.8	284.6	299.9	315.5	145°	104.9
175.3	182.5	189.7	199.1	207.1	217.3	228.7	246.9	267.3	284.6	303.3	147.5°	110.1
152.1	158.4	166.5	174.9	184.2	196.1	208.4	225.3	246.5	265.1	286.3	150°	115.1
130.0	136.8	144.8	154.2	163.5	176.2	190.2	206.3	225.7	245.7	268.1	152.5°	119.7
109.3	118.2	126.6	136.0	145.7	157.6	172.4	189.7	209.2	230.4	254.1	155°	123.7
91.9	98.7	107.6	115.2	125.8	137.2	152.5	172.0	194.4	216.9	241.8	157.5°	127.0
76.7	80.9	88.5	97.8	107.6	119.4	132.1	151.6	174.5	199.1	227.0	160°	130.3
67.3	69.5	75.0	83.4	92.8	104.6	115.6	132.6	155.4	179.6	208.4	162.5°	133.5
62.7	63.5	66.5	72.8	81.7	92.3	104.2	118.6	138.9	162.6	190.2	165°	136.0
60.1	60.6	61.4	66.1	73.7	83.4	95.3	106.7	124.9	147.4	174.1	167.5°	137.1
57.2	57.6	58.0	60.6	66.1	74.5	84.7	94.0	110.5	130.4	155.9	170°	137.4
54.2	55.1	55.9	56.8	60.6	66.1	73.7	81.7	93.2	110.5	131.3	172.5°	138.6
50.4	51.2	52.5	53.4	54.6	58.0	62.7	67.8	73.7	86.0	102.9	175°	140.5
47.0	47.9	48.3	48.7	49.6	50.4	52.1	53.4	56.3	63.5	75.4	177.5°	141.1
42.4	43.2	43.2	43.6	44.0	44.0	44.9	45.3	46.2	48.3	53.4	180°	140.8
38.5	39.0	39.4	39.8	39.8	39.8	39.4	39.8	39.4	39.4	41.5		
33.9	34.3	34.7	35.2	35.6	36.0	36.4	36.4	36.0	35.2	35.2		
28.8	28.8	29.6	30.1	30.5	31.8	32.6	31.8	31.8	31.3	31.3		
24.1	25.0	25.4	25.4	26.3	27.5	28.4	28.0	26.7	26.7	27.1		
18.6	19.1	19.5	19.9	20.3	21.6	22.9	23.3	22.4	22.9	22.9		
12.3	12.7	13.6	14.0	14.4	15.7	16.9	18.2	17.8	18.6	17.8		
5.5	6.4	6.8	6.8	8.0	9.3	11.0	12.3	14.0	14.4	13.1		
0.0	0.4	0.4	0.4	1.7	3.0	5.5	8.5	11.4	8.9	6.8		
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		

'160174
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 CATALOG NUMBER: ENV-F01-I

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°	274.9	274.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	273.2	273.6
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	277.0	277.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	282.5	282.5
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	289.7	288.4
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	293.9	291.8
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	296.5	294.4
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	297.3	297.3
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	299.4	302.8
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	306.6	315.1
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	327.8	339.7
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	344.3	360.0
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	345.6	365.1
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	338.0	359.2
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	326.5	350.7
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	312.6	339.7
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	296.5	324.4
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	281.7	310.5
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	271.1	301.6
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	259.6	292.2
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	241.4	280.0
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	221.9	260.5
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	204.1	241.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	185.1	222.4
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	160.1	197.4
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	127.9	163.1
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	91.9	121.6
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	62.3	82.6
										70°	45.3	56.3
										72.5°	36.8	42.4
										75°	32.6	35.6
										77.5°	28.8	30.5
										80°	22.9	24.6
										82.5°	17.8	19.5
										85°	13.1	14.4
										87.5°	5.9	5.9
										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



REPORT NUMBER: P160174

CATALOG NUMBER: ENV-F01-LED-E1-SLF

LED-E1-SLR-7050-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	274.9	112.5°	21.2	21.2	21.2
274.0	274.5	274.5	275.3	275.7	276.6	277.0	277.0	277.0	115°	25.0	25.0	25.0
277.8	278.3	278.7	280.0	280.4	281.7	282.9	283.3	284.6	117.5°	29.5	29.5	29.5
282.5	283.8	284.2	285.0	285.9	288.0	289.7	290.5	291.8	120°	34.8	34.8	34.8
288.0	288.4	288.4	289.3	291.4	292.7	294.8	298.6	301.1	122.5°	40.9	40.9	40.9
291.8	290.5	291.4	292.2	294.4	297.3	300.7	306.2	311.3	125°	47.8	47.8	47.8
294.4	294.4	296.5	298.2	302.0	306.6	313.0	320.6	328.2	127.5°	55.3	55.3	55.3
299.0	300.3	304.9	308.3	315.1	321.9	329.9	340.5	352.0	130°	63.0	63.0	63.0
307.5	310.9	316.0	321.5	328.2	338.4	352.0	365.5	380.8	132.5°	70.5	70.5	70.5
321.0	328.7	337.1	343.9	352.0	366.4	381.2	398.1	417.2	135°	77.9	77.9	77.9
350.7	359.2	371.9	383.3	394.7	415.5	434.5	454.0	479.9	137.5°	85.3	85.3	85.3
376.5	390.1	410.0	426.5	442.2	467.2	488.3	520.5	548.1	140°	92.5	92.5	92.5
387.5	409.6	434.5	458.3	487.5	512.1	543.4	581.9	617.9	142.5°	99.2	99.2	99.2
385.0	411.7	443.0	475.2	509.9	549.3	585.3	628.5	675.5	145°	104.9	104.9	104.9
379.1	409.1	445.6	484.1	525.6	574.7	620.1	673.8	732.3	147.5°	110.1	110.1	110.1
371.9	407.0	447.7	493.0	545.1	603.5	662.0	732.3	805.1	150°	115.1	115.1	115.1
360.9	401.1	450.2	506.6	570.5	639.1	715.8	799.6	878.0	152.5°	119.7	119.7	119.7
348.6	393.9	453.2	525.2	605.7	690.8	779.3	864.9	954.2	155°	123.7	123.7	123.7
340.5	391.8	460.8	546.8	640.4	739.1	837.8	931.4	1028.8	157.5°	127.0	127.0	127.0
335.9	393.0	468.9	562.9	666.2	775.1	879.7	987.3	1089.3	160°	130.3	130.3	130.3
331.6	396.4	476.1	573.0	682.7	798.4	912.7	1028.8	1141.9	162.5°	133.5	133.5	133.5
320.6	395.2	478.6	576.0	691.2	813.6	935.6	1058.0	1178.3	165°	136.0	136.0	136.0
301.6	383.3	473.1	573.0	693.8	822.5	950.4	1079.6	1199.0	167.5°	137.1	137.1	137.1
276.1	359.2	453.6	560.3	684.9	818.3	955.5	1093.6	1210.9	170°	137.4	137.4	137.4
247.8	321.5	419.3	531.1	656.1	792.4	933.1	1080.4	1197.3	172.5°	138.6	138.6	138.6
208.8	274.5	372.7	481.6	603.5	739.1	866.6	1027.5	1146.5	175°	140.5	140.5	140.5
159.7	218.1	302.8	413.8	537.9	656.5	772.1	933.1	1065.2	177.5°	141.1	141.1	141.1
110.1	155.4	226.6	323.6	439.6	548.9	664.1	814.5	968.6	180°	140.8	140.8	140.8
71.6	100.8	149.9	224.5	316.4	417.2	512.9	650.6	815.7				
50.8	64.4	91.5	138.5	208.4	286.3	364.7	457.8	615.4				
40.2	47.0	56.3	80.5	122.0	178.3	241.4	300.3	432.0				
32.6	35.6	40.2	49.6	72.0	102.9	142.3	189.3	268.5				
26.3	28.4	31.3	35.2	44.5	59.3	82.6	104.2	153.3				
21.2	23.7	24.6	25.0	28.8	33.9	43.6	58.9	87.7				
15.2	16.1	16.1	16.5	17.4	18.6	25.0	43.2	64.0				
5.9	5.1	5.5	4.2	4.7	5.1	8.0	9.3	14.8				
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				



REPORT NUMBER: P160174

CATALOG NUMBER: ENV-F01-LED-E1-SLR-7050-UL

3-7050-ULG

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°	274.9	274.9	274.9	274.9
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	278.3	278.3	277.8	277.8
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	285.5	286.7	285.9	287.2
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	294.8	295.6	296.5	298.2
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	304.5	307.5	310.5	311.7
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	316.0	321.5	327.4	330.4
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	335.9	344.3	351.1	355.8
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	362.1	373.6	385.0	393.0
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	395.6	412.1	428.2	438.4
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	437.9	457.4	475.2	494.7
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	496.4	523.5	554.8	571.8
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	579.8	616.7	638.7	676.4
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	659.4	704.8	758.1	810.2
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	726.8	793.3	871.6	950.8
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	797.5	881.8	972.4	1074.1
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	882.2	969.5	1067.3	1178.7
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	959.3	1058.8	1178.7	1281.6
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1044.4	1150.3	1285.4	1404.5
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	1127.0	1237.6	1385.4	1515.8
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1199.5	1310.4	1468.0	1603.9
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	1257.5	1381.2	1534.9	1665.4
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1302.8	1433.7	1585.7	1707.7
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	1326.5	1458.7	1601.4	1725.5
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1329.9	1457.0	1588.3	1709.4
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	1297.7	1410.4	1535.7	1662.4
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1225.7	1313.8	1432.8	1558.2
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	1133.4	1191.0	1270.2	1393.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1042.8	1080.9	1122.4	1213.0
								70°	903.4	935.2	976.7	1033.0
								72.5°	702.6	744.6	774.2	828.9
								75°	528.2	552.3	595.1	645.5
								77.5°	371.4	396.0	444.7	502.3
								80°	249.5	266.4	296.5	346.0
								82.5°	152.9	172.4	197.8	240.6
								85°	102.5	133.0	165.6	197.8
								87.5°	43.2	72.8	92.3	97.0
								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



REPORT NUMBER: P160174

CATALOG NUMBER: ENV-F01-LED-E1-SLR-7050-ULG

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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
274.9	274.9	274.9	274.9	274.9	274.9	274.9	112.5°	21.2	21.2	21.2	21.2	21.2
279.1	278.7	279.5	279.5	279.1	279.1	280.4	115°	25.0	25.0	25.0	25.0	25.0
288.0	288.4	289.3	288.4	290.1	288.0	288.4	117.5°	29.5	29.5	29.5	29.5	29.5
300.3	300.7	302.0	301.6	302.8	301.6	299.9	120°	34.8	34.8	34.8	34.8	34.8
316.0	316.8	316.8	318.9	321.0	318.5	315.5	122.5°	40.9	40.9	40.9	40.9	40.9
334.2	337.1	335.9	340.1	342.2	340.5	338.4	125°	47.8	47.8	47.8	47.8	47.8
359.2	365.1	364.2	372.3	375.3	374.0	374.4	127.5°	55.3	55.3	55.3	55.3	55.3
396.4	404.9	406.2	418.9	426.9	425.7	423.5	130°	63.0	63.0	63.0	63.0	63.0
439.6	461.7	466.7	477.8	486.6	490.0	489.6	132.5°	70.5	70.5	70.5	70.5	70.5
512.9	529.0	540.4	560.3	568.4	576.0	573.9	135°	77.9	77.9	77.9	77.9	77.9
596.3	611.2	636.6	662.0	670.0	677.2	686.6	137.5°	85.3	85.3	85.3	85.3	85.3
703.1	724.7	764.9	799.2	818.7	812.8	809.8	140°	92.5	92.5	92.5	92.5	92.5
847.5	901.7	931.4	959.3	972.0	953.4	929.7	142.5°	99.2	99.2	99.2	99.2	99.2
1020.3	1083.8	1102.5	1116.0	1091.9	1066.5	997.0	145°	104.9	104.9	104.9	104.9	104.9
1146.9	1209.2	1247.7	1262.1	1210.5	1135.1	1041.1	147.5°	110.1	110.1	110.1	110.1	110.1
1261.3	1324.4	1341.3	1347.7	1278.2	1180.8	1089.3	150°	115.1	115.1	115.1	115.1	115.1
1382.9	1435.8	1445.5	1442.1	1349.8	1234.6	1149.1	152.5°	119.7	119.7	119.7	119.7	119.7
1493.4	1547.6	1538.7	1523.9	1418.9	1302.4	1207.9	155°	123.7	123.7	123.7	123.7	123.7
1598.4	1638.2	1622.1	1585.3	1484.1	1354.5	1254.1	157.5°	127.0	127.0	127.0	127.0	127.0
1668.7	1702.2	1684.8	1638.2	1529.0	1389.6	1279.5	160°	130.3	130.3	130.3	130.3	130.3
1722.1	1747.5	1737.4	1670.0	1555.2	1411.2	1290.9	162.5°	133.5	133.5	133.5	133.5	133.5
1748.8	1773.8	1767.8	1675.9	1558.6	1414.6	1285.4	165°	136.0	136.0	136.0	136.0	136.0
1758.5	1786.9	1766.2	1653.9	1536.2	1401.9	1266.4	167.5°	137.1	137.1	137.1	137.1	137.1
1750.5	1763.6	1733.1	1612.0	1490.4	1362.5	1239.3	170°	137.4	137.4	137.4	137.4	137.4
1720.8	1711.5	1669.6	1539.1	1425.6	1307.9	1209.2	172.5°	138.6	138.6	138.6	138.6	138.6
1637.8	1613.7	1579.8	1454.9	1339.2	1221.5	1162.6	175°	140.5	140.5	140.5	140.5	140.5
1466.7	1459.9	1444.3	1351.5	1236.7	1124.5	1086.8	177.5°	141.1	141.1	141.1	141.1	141.1
1247.3	1240.5	1242.7	1180.0	1097.0	987.7	988.5	180°	140.8	140.8	140.8	140.8	140.8
1069.4	1032.2	988.1	920.8	872.5	857.7	905.5						
860.6	840.3	804.3	745.4	690.8	709.8	817.0						
665.4	653.1	679.4	686.1	665.0	652.2	688.7						
545.1	571.8	613.7	667.1	672.2	653.5	584.5						
415.1	484.5	542.6	614.6	606.9	566.7	491.3						
290.5	357.9	412.5	473.1	471.0	434.1	396.9						
222.4	243.5	264.3	327.8	352.4	324.0	283.3						
105.0	105.9	127.5	157.1	168.6	192.3	189.7						
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: P160174

CATALOG NUMBER: ENV-F01-LED-E1-SLR-7050-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°	274.9	274.9	274.9	274.9	274.9	274.9
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	280.8	280.4	280.4	280.4	280.8	280.4
29.5	29.5	29.5	29.5	29.5	29.5	5°	289.3	288.4	288.0	288.0	287.6	287.6
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	300.3	298.6	298.6	297.3	296.9	295.6
40.9	40.9	40.9	40.9	40.9	40.9	10°	315.1	313.4	313.0	309.6	309.6	306.6
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	336.7	336.7	336.7	332.5	331.6	326.5
55.3	55.3	55.3	55.3	55.3	55.3	15°	374.0	370.6	373.6	366.4	365.9	359.2
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	424.4	424.4	418.5	415.1	412.9	403.2
70.5	70.5	70.5	70.5	70.5	70.5	20°	491.3	491.7	481.6	472.2	468.0	457.0
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	576.4	568.4	555.7	548.9	542.1	523.9
85.3	85.3	85.3	85.3	85.3	85.3	25°	688.2	684.9	662.4	637.8	627.7	600.2
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	797.9	790.7	754.7	712.8	687.0	649.3
99.2	99.2	99.2	99.2	99.2	99.2	30°	894.5	847.1	804.3	753.9	714.5	667.5
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	944.9	885.2	822.9	781.4	731.9	679.8
110.1	110.1	110.1	110.1	110.1	110.1	35°	983.9	919.9	858.1	804.3	748.4	689.5
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1033.4	966.1	897.9	833.9	765.8	696.7
119.7	119.7	119.7	119.7	119.7	119.7	40°	1088.5	1011.4	927.1	849.6	773.0	694.2
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1134.2	1041.1	941.9	854.7	770.4	683.6
127.0	127.0	127.0	127.0	127.0	127.0	45°	1159.6	1053.3	943.2	849.2	760.3	670.5
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1171.5	1053.8	934.7	836.9	746.7	651.8
133.5	133.5	133.5	133.5	133.5	133.5	50°	1170.2	1043.2	918.7	820.4	731.4	632.3
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1157.5	1025.8	900.0	807.3	718.3	615.8
137.1	137.1	137.1	137.1	137.1	137.1	55°	1138.0	1007.2	881.4	798.4	707.3	602.3
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1116.0	991.1	867.8	796.7	701.0	599.7
138.6	138.6	138.6	138.6	138.6	138.6	60°	1106.3	992.8	876.3	784.8	697.6	605.2
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1099.9	1008.9	893.7	792.9	703.1	628.5
141.1	141.1	141.1	141.1	141.1	141.1	65°	1074.1	1031.3	920.3	821.7	742.9	683.2
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1043.2	1037.7	930.9	838.6	788.2	754.3
						70°	1011.0	1030.9	946.2	883.1	855.1	841.6
						72.5°	959.3	982.2	903.4	865.7	857.2	847.5
						75°	800.1	804.3	744.2	723.4	738.2	715.4
						77.5°	575.2	586.2	547.2	552.7	601.0	551.4
						80°	426.1	382.9	358.3	374.8	421.0	350.3
						82.5°	351.1	284.2	241.0	263.4	281.2	206.7
						85°	270.2	216.9	178.3	144.0	137.2	88.5
						87.5°	212.2	156.7	87.2	49.1	33.0	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: P160174

CATALOG NUMBER: ENV-F01-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
274.9	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
280.8	115°	25.0	25.0	25.0	25.0	25.0	25.0
287.6	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
295.6	120°	34.8	34.8	34.8	34.8	34.8	34.8
307.9	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
325.7	125°	47.8	47.8	47.8	47.8	47.8	47.8
357.5	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
398.5	130°	63.0	63.0	63.0	63.0	63.0	63.0
449.0	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
505.7	135°	77.9	77.9	77.9	77.9	77.9	77.9
570.5	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
610.3	140°	92.5	92.5	92.5	92.5	92.5	92.5
618.8	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
624.7	145°	104.9	104.9	104.9	104.9	104.9	104.9
626.4	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
623.9	150°	115.1	115.1	115.1	115.1	115.1	115.1
613.7	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
600.6	155°	123.7	123.7	123.7	123.7	123.7	123.7
584.1	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
563.7	160°	130.3	130.3	130.3	130.3	130.3	130.3
544.7	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
529.8	165°	136.0	136.0	136.0	136.0	136.0	136.0
520.5	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
521.8	170°	137.4	137.4	137.4	137.4	137.4	137.4
534.9	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
568.0	175°	140.5	140.5	140.5	140.5	140.5	140.5
630.6	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
692.1	180°	140.8	140.8	140.8	140.8	140.8	140.8
751.4							
712.4							
543.8							
391.3							
227.0							
141.9							
61.4							
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)