

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: P160113

Luminaire Tested: **ENV-E01-LED-E1-SLR-7030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160113
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-E01-LED-E1-SLR-7030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2539.1 lumens
Efficiency: N/A
Efficacy: 77.6 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

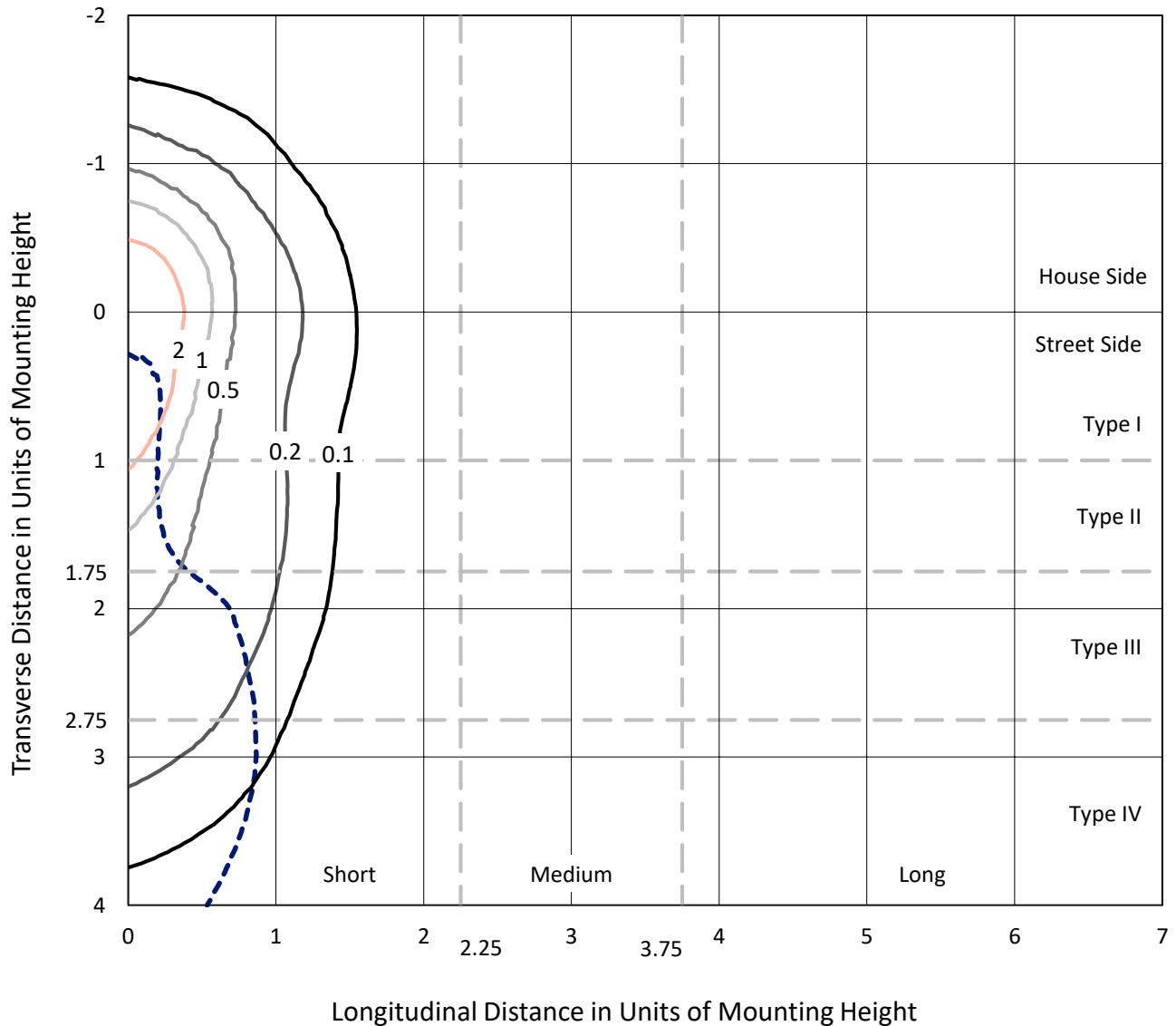
Input Watts (W): 32.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

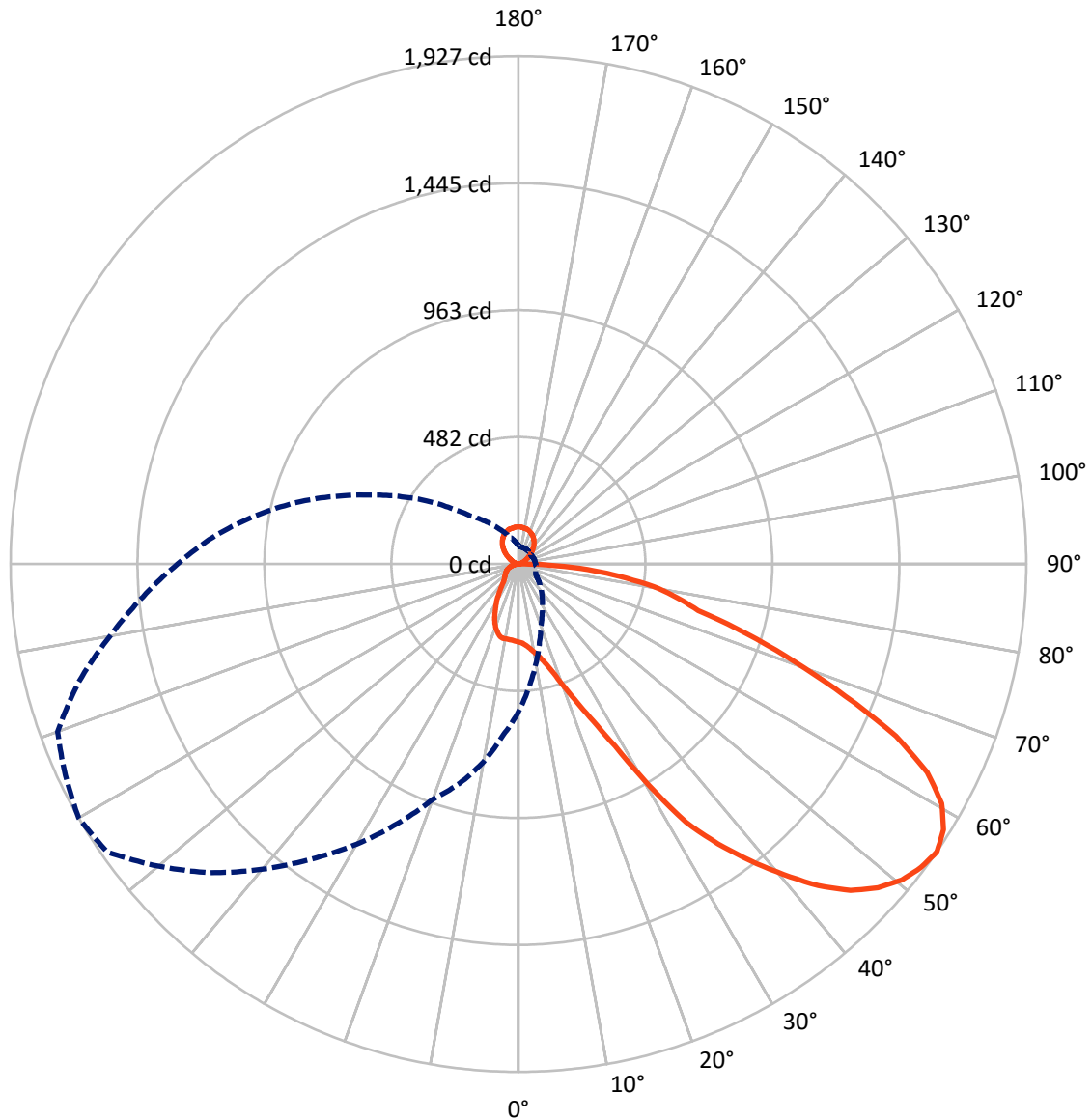
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 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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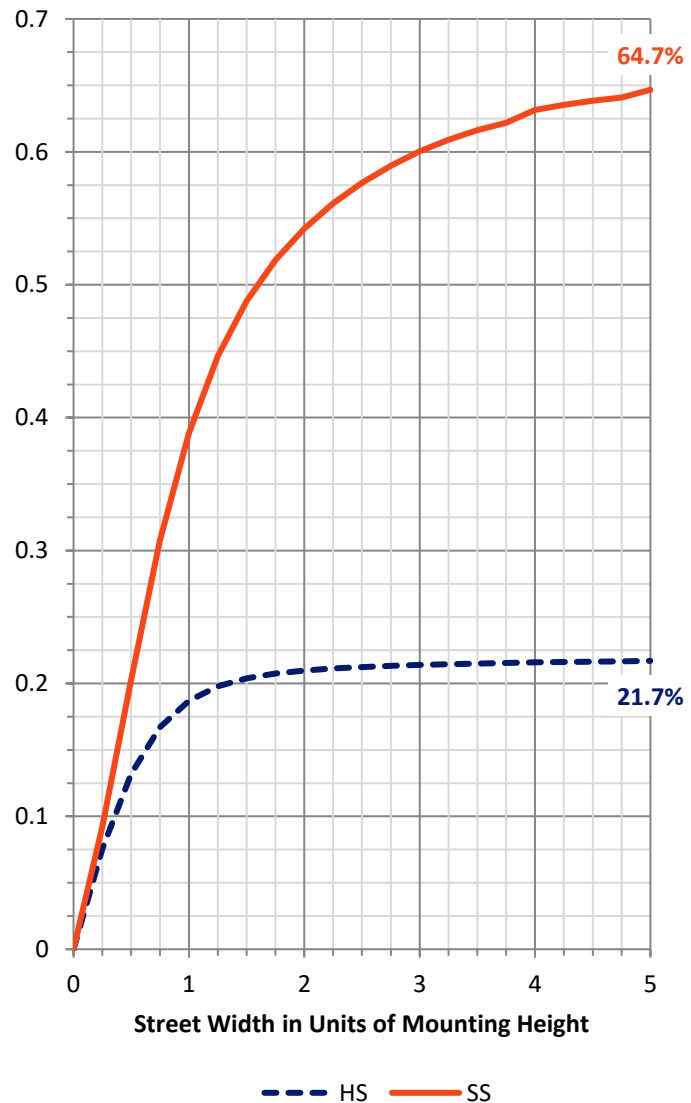
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.8	157.7	713.5
	% Fixture	21.9	6.2	28.1
Street Side	Lumens	1667.9	157.7	1825.6
	% Fixture	65.7	6.2	71.9
Total	Lumens	2223.7	315.5	2539.1
	% Fixture	87.6	12.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	1.1
10°-20°	96.0	3.8
20°-30°	186.2	7.3
30°-40°	292.6	11.5
40°-50°	391.2	15.4
50°-60°	459.0	18.1
60°-70°	435.4	17.1
70°-80°	262.8	10.4
80°-90°	71.2	2.8
90°-100°	1.3	0.0
100°-110°	12.3	0.5
110°-120°	25.2	1.0
120°-130°	43.0	1.7
130°-140°	60.0	2.4
140°-150°	65.4	2.6
150°-160°	56.9	2.2
160°-170°	38.2	1.5
170°-180°	13.3	0.5
0°-90°	2223.7	87.6
0°-180°	2539.1	100.0

Coefficient of Utilization



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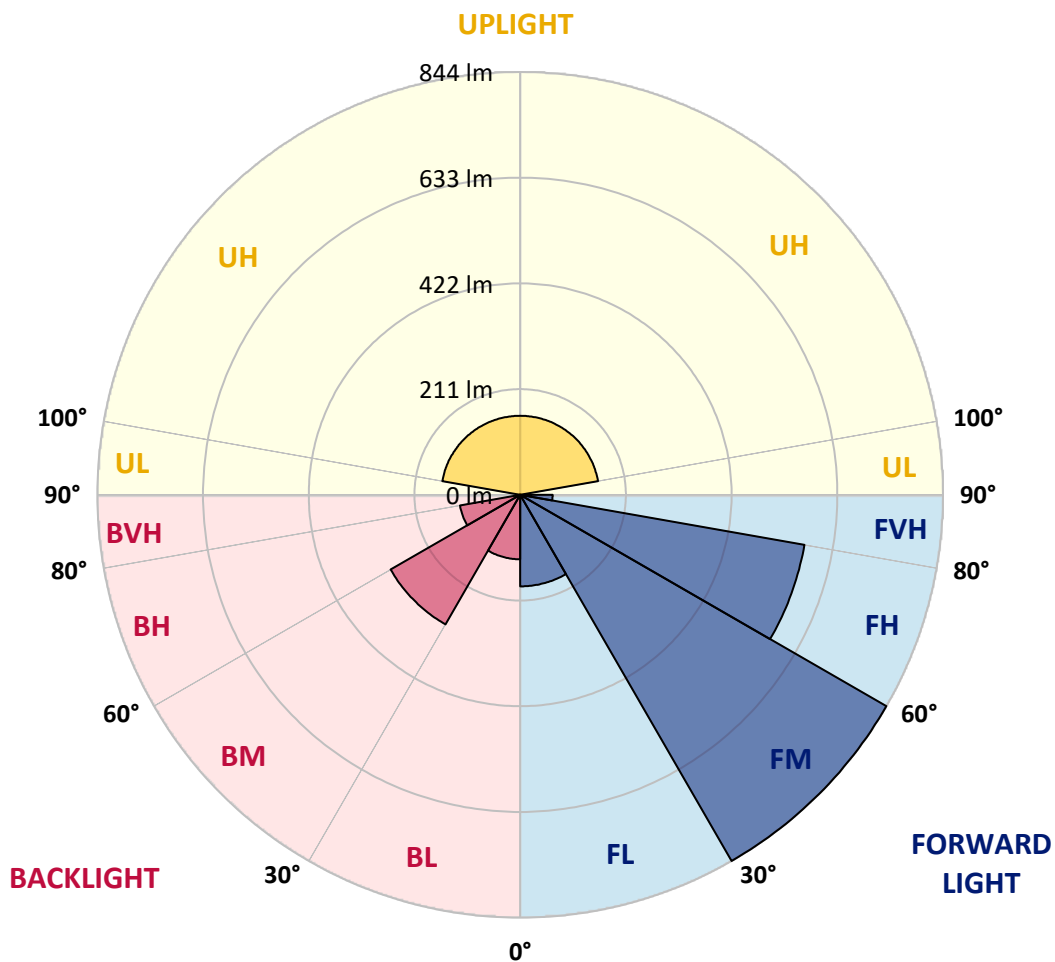
CATALOG NUMBER: ENV-E01-LED-E1-SLR-7030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.7	7.2			
FM	(30°-60°)	844.1	33.2			
FH	(60°-80°)	576.2	22.7			G0/660
FVH	(80°-90°)	64.8	2.6			G1/100
BL	(0°-30°)	128.6	5.1	B1/500		
BM	(30°-60°)	298.7	11.8	B1/1000		
BH	(60°-80°)	122.0	4.8	B1/500		G1/500
BVH	(80°-90°)	6.5	0.3			G0/10
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	6.2		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°	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4
2.5°	302.8	305.1	302.3	302.8	301.9	300.9	301.4	300.9	300.0	300.0	299.1
5°	310.1	310.5	308.7	308.3	307.3	306.0	306.4	305.1	304.1	303.2	301.4
7.5°	318.8	318.3	316.0	314.6	314.2	311.9	311.5	309.6	308.3	306.9	304.6
10°	332.0	328.3	325.6	323.3	322.4	319.7	317.4	316.5	314.2	311.0	309.2
12.5°	351.2	348.9	343.4	338.9	336.1	332.5	329.3	327.0	323.3	318.8	316.5
15°	385.4	378.1	371.7	364.9	359.4	353.5	345.7	339.8	333.4	325.6	319.7
17.5°	429.7	420.6	410.6	399.6	388.2	375.4	360.3	348.9	336.1	322.9	313.7
20°	484.1	467.2	453.0	432.0	411.0	390.9	367.2	347.1	328.8	311.5	298.2
22.5°	545.3	519.7	490.9	459.0	425.2	394.1	360.8	333.4	306.9	285.4	270.4
25°	615.1	575.0	531.1	482.7	434.3	388.2	347.1	312.8	284.5	258.9	242.0
27.5°	658.1	603.3	550.8	493.2	438.0	384.5	334.3	294.6	262.1	234.7	215.1
30°	667.2	611.9	550.3	487.7	430.6	372.2	317.4	273.1	237.0	208.2	188.6
32.5°	673.6	609.7	541.2	471.7	409.6	348.0	292.3	248.4	210.1	181.8	158.9
35°	675.4	601.0	523.8	446.6	381.3	318.3	262.6	216.5	183.1	155.3	134.7
37.5°	672.7	586.8	500.5	420.6	350.7	285.0	230.2	190.0	161.7	134.7	116.5
40°	661.7	569.0	479.5	395.5	319.7	251.6	202.8	168.1	143.9	123.3	109.1
42.5°	647.6	548.5	456.2	366.3	289.5	225.1	180.8	153.0	132.4	117.8	105.9
45°	629.8	527.0	432.0	340.2	264.0	205.0	168.1	144.8	128.8	116.0	105.0
47.5°	607.8	504.2	408.7	320.6	246.6	195.0	165.3	144.8	128.8	115.1	103.2
50°	587.3	483.6	390.9	308.3	238.8	195.5	168.1	146.6	128.3	113.3	100.0
52.5°	571.3	471.3	383.6	303.7	239.8	200.0	173.5	149.3	129.7	113.3	99.1
55°	561.3	466.3	382.7	307.8	249.3	212.4	182.2	157.6	136.1	116.9	100.5
57.5°	562.6	471.7	393.7	324.7	271.3	233.8	199.6	172.2	145.2	121.5	100.9
60°	576.8	490.0	420.1	364.4	307.8	262.6	221.5	185.0	149.3	120.1	97.7
62.5°	612.4	532.9	475.9	418.8	353.0	290.9	234.7	187.2	144.8	113.3	90.0
65°	680.0	610.1	555.3	484.1	390.5	302.8	233.4	180.4	136.1	102.3	79.5
67.5°	746.2	672.2	595.0	487.7	381.3	294.1	218.3	163.5	120.6	87.7	70.3
70°	810.1	714.2	615.1	483.2	354.8	253.0	182.2	136.5	95.9	73.1	60.3
72.5°	768.1	657.6	556.2	426.1	305.1	207.8	145.2	99.1	73.5	60.3	52.1
75°	586.4	509.6	421.5	327.0	225.1	146.6	96.8	70.3	56.6	47.5	42.5
77.5°	422.0	364.9	292.7	214.6	140.7	92.7	65.8	50.2	42.0	35.6	32.9
80°	244.8	210.1	163.9	118.3	80.4	58.0	43.8	35.6	30.6	26.0	25.1
82.5°	153.0	122.4	86.8	58.5	41.1	32.0	25.6	21.9	18.3	16.0	13.7
85°	66.2	47.5	26.9	15.1	11.4	8.7	6.9	5.9	5.0	4.6	3.7
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.7	2.7	2.7	2.7	2.3
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-E01-LED-E1-SLR-7030-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-E01-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4
2.5°	299.1	298.2	297.8	297.8	296.8	296.8	295.9	296.4	295.9	295.0	294.6
5°	300.9	299.6	298.7	297.8	296.4	295.9	295.0	295.0	293.6	292.3	291.8
7.5°	303.2	301.4	300.0	298.2	296.4	295.5	293.6	292.7	291.4	290.0	289.5
10°	307.8	304.6	302.3	300.0	296.8	295.0	292.3	290.9	289.5	287.7	286.8
12.5°	312.8	308.7	305.5	300.0	296.8	293.6	290.9	288.2	285.4	283.6	283.1
15°	312.8	307.8	300.9	295.9	291.4	286.8	284.1	281.3	278.1	276.7	276.3
17.5°	305.1	296.4	290.0	284.5	280.4	276.7	274.0	272.6	269.9	267.2	266.2
20°	287.2	277.2	269.9	264.0	259.4	255.7	254.8	253.5	252.1	252.1	252.5
22.5°	258.0	247.1	240.7	234.3	229.3	227.4	227.9	229.3	229.7	229.3	232.4
25°	228.8	218.3	209.6	203.7	197.7	199.1	197.3	200.5	201.9	202.3	206.0
27.5°	200.5	189.1	179.9	174.9	172.2	170.3	169.0	173.1	174.0	177.2	180.4
30°	170.3	159.8	149.3	145.2	142.9	141.6	142.0	145.7	148.0	152.5	155.3
32.5°	142.5	129.7	121.9	116.5	114.2	113.7	114.2	116.9	119.6	125.6	129.7
35°	118.7	106.4	100.0	96.8	93.6	92.2	93.6	94.5	95.4	100.5	105.5
37.5°	105.0	96.4	91.3	88.1	85.9	84.5	84.5	84.0	84.5	85.4	87.7
40°	99.1	92.7	88.1	84.9	83.1	82.2	81.7	81.3	80.8	80.8	80.8
42.5°	96.8	89.5	84.9	82.2	81.3	81.3	81.3	80.8	79.9	79.0	78.5
45°	95.0	87.2	82.2	79.9	79.9	79.9	80.4	79.9	79.0	77.6	76.3
47.5°	91.8	84.0	79.5	77.6	77.6	77.6	78.1	77.6	76.7	75.8	74.4
50°	88.1	79.9	75.4	74.0	73.5	73.5	73.1	72.6	72.2	71.2	69.9
52.5°	85.9	77.2	73.1	72.2	71.2	70.8	69.9	69.4	68.5	68.0	66.7
55°	85.4	75.4	71.7	70.8	69.9	68.5	66.7	65.8	63.9	63.5	62.6
57.5°	84.0	73.5	69.4	67.1	64.8	63.5	61.7	60.7	59.8	58.9	58.0
60°	79.5	68.0	63.0	61.7	60.3	59.8	58.9	58.0	56.6	55.3	53.4
62.5°	70.8	61.2	58.0	57.5	57.1	56.2	55.3	53.9	53.0	51.1	49.3
65°	63.9	57.5	55.7	54.8	54.3	53.0	52.1	51.1	49.8	48.4	46.6
67.5°	58.0	53.4	52.5	51.1	50.7	49.8	48.4	47.5	46.1	44.8	42.9
70°	52.5	48.9	48.4	47.5	46.6	46.1	44.3	42.9	42.5	40.6	39.3
72.5°	46.6	44.3	43.4	42.5	41.6	41.1	40.2	39.3	38.4	36.5	34.7
75°	38.8	37.9	37.4	36.5	36.1	35.2	33.8	32.4	32.0	30.6	29.2
77.5°	31.1	30.1	30.1	29.2	27.9	26.5	25.1	23.3	23.3	23.3	22.4
80°	21.9	21.0	19.6	19.2	18.3	17.4	16.0	15.1	14.2	14.2	14.2
82.5°	12.8	12.3	11.4	10.0	9.1	8.7	7.3	6.4	5.9	5.0	5.0
85°	2.7	2.7	1.8	1.8	1.4	1.4	1.4	0.9	0.9	0.5	0.5
87.5°	2.3	2.3	2.3	1.8	1.8	1.8	1.4	1.4	1.4	0.9	0.9
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: P160113

CATALOG NUMBER: ENV-E01-LED-E1-SLR-7030-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



REPORT NUMBER: P160113

CATALOG NUMBER: ENV-E01-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4
2.5°	294.6	294.1	293.2	291.4	290.9	290.4	290.9	290.9	290.4	290.9	291.4
5°	291.8	291.4	290.0	289.1	288.2	288.2	290.9	290.9	289.5	290.0	291.8
7.5°	289.5	289.5	288.6	288.2	288.6	290.0	292.3	294.1	293.6	296.4	297.3
10°	286.8	287.2	287.7	289.5	292.3	294.6	298.2	301.4	302.3	304.6	306.0
12.5°	284.1	285.9	288.2	291.8	295.5	299.1	303.2	306.9	307.3	309.6	311.5
15°	277.2	279.9	283.1	287.2	292.7	296.8	302.8	305.5	306.4	307.8	310.1
17.5°	266.7	268.1	270.4	274.9	280.9	286.3	293.2	297.8	300.5	302.3	303.2
20°	252.5	255.3	256.7	260.8	264.0	268.1	277.2	283.1	288.6	291.4	294.1
22.5°	232.9	236.1	239.3	243.4	245.2	248.0	256.7	265.8	274.0	279.5	282.7
25°	208.2	211.9	216.5	221.5	223.8	226.5	236.6	245.7	255.7	265.3	269.9
27.5°	183.6	188.2	192.7	198.7	202.3	205.5	214.2	222.9	233.4	242.5	247.1
30°	159.8	166.2	170.3	177.2	180.4	183.6	191.3	200.9	208.2	218.7	224.7
32.5°	135.2	139.7	147.5	155.3	158.9	162.1	169.4	177.6	184.0	194.5	203.2
35°	112.8	116.9	125.1	132.9	135.2	140.2	147.5	154.8	160.7	170.3	178.6
37.5°	91.8	98.6	105.0	111.0	116.0	119.6	126.5	132.9	136.1	145.2	153.9
40°	81.7	84.9	89.5	95.0	98.2	101.8	106.9	112.3	116.0	122.4	129.7
42.5°	78.1	78.1	79.5	82.2	86.3	88.1	92.7	95.4	100.5	103.2	109.6
45°	75.4	74.4	74.9	74.9	76.3	77.6	81.3	84.0	87.2	89.5	93.6
47.5°	73.1	71.2	70.8	69.9	69.4	70.3	73.1	75.4	76.7	78.5	79.9
50°	68.0	66.7	65.3	64.4	63.9	64.8	67.1	69.0	69.4	70.3	71.2
52.5°	65.3	63.5	62.1	60.7	60.7	61.7	63.5	64.8	65.3	65.8	66.7
55°	61.7	60.7	59.8	58.5	58.0	59.4	60.7	62.1	63.0	63.0	63.9
57.5°	57.1	56.2	57.1	56.6	56.2	57.1	58.9	60.3	60.7	60.7	61.2
60°	52.5	52.1	52.1	53.0	53.9	55.3	56.6	58.5	58.0	57.1	57.5
62.5°	48.4	48.0	48.4	49.8	51.1	52.5	54.3	55.7	54.3	53.4	53.4
65°	45.7	45.2	45.7	46.1	46.6	48.0	50.2	50.7	49.8	49.8	49.8
67.5°	42.0	41.6	41.1	41.6	42.0	42.5	44.3	44.8	44.8	44.8	44.8
70°	37.4	37.0	36.5	36.5	36.5	37.0	37.4	38.4	39.3	40.2	40.6
72.5°	32.4	31.5	31.5	31.5	30.6	31.1	31.5	33.3	34.3	35.2	36.1
75°	27.4	26.5	26.5	25.6	26.0	26.5	26.5	27.4	28.3	29.7	30.6
77.5°	21.5	21.5	21.5	21.0	21.0	21.5	21.9	21.9	22.8	24.2	25.6
80°	13.7	13.7	14.6	15.1	15.5	16.0	16.9	17.4	17.8	19.2	19.6
82.5°	5.0	5.5	5.9	5.9	7.3	9.1	9.6	11.0	11.9	13.2	13.2
85°	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.8	2.7	4.1	5.0
87.5°	0.9	0.5	0.5	0.5	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°	
296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	112.5°	21.2
291.8	293.2	292.7	292.3	292.7	293.6	293.2	293.6	294.1	295.0	294.6	115°	25.0
292.3	293.6	294.1	294.1	295.0	296.4	296.4	296.8	297.3	298.2	298.2	117.5°	29.5
298.7	301.9	301.9	302.3	303.7	305.1	305.5	306.0	305.5	305.5	305.5	120°	34.8
308.3	311.9	312.4	314.6	316.5	316.0	316.0	316.5	315.6	314.6	313.3	122.5°	40.9
313.3	316.5	317.4	319.7	322.4	322.9	324.2	325.2	324.2	322.0	319.7	125°	47.8
311.9	314.6	316.5	319.2	322.4	324.2	327.0	327.9	327.4	324.7	322.0	127.5°	55.3
306.0	309.2	311.5	315.1	318.8	321.5	324.2	325.6	325.6	323.3	321.5	130°	63.0
296.4	300.0	303.2	307.3	311.9	315.1	318.3	319.2	319.2	318.3	319.7	132.5°	70.5
286.3	290.4	294.1	298.2	304.1	307.3	311.0	313.7	315.1	316.9	322.9	135°	77.9
273.5	275.4	279.9	284.5	292.7	298.2	306.0	313.3	320.6	328.8	340.7	137.5°	85.3
251.2	254.4	259.8	266.2	274.5	284.5	298.7	312.8	326.1	338.4	353.0	140°	92.5
232.4	238.4	244.3	251.6	260.3	269.9	286.3	304.6	320.6	335.2	351.2	142.5°	99.2
212.4	219.7	227.4	237.0	245.2	253.9	267.6	287.7	306.9	323.3	340.2	145°	104.9
189.1	196.8	204.6	214.6	223.3	234.3	246.6	266.2	288.2	306.9	327.0	147.5°	110.1
163.9	170.8	179.5	188.6	198.7	211.4	224.7	243.0	265.8	285.9	308.7	150°	115.1
140.2	147.5	156.2	166.2	176.3	190.0	205.0	222.4	243.4	264.9	289.1	152.5°	119.7
117.8	127.4	136.5	146.6	157.1	169.9	185.9	204.6	225.6	248.4	274.0	155°	123.7
99.1	106.4	116.0	124.2	135.6	148.0	164.4	185.4	209.6	233.8	260.8	157.5°	127.0
82.7	87.2	95.4	105.5	116.0	128.8	142.5	163.5	188.2	214.6	244.8	160°	130.3
72.6	74.9	80.8	90.0	100.0	112.8	124.7	142.9	167.6	193.6	224.7	162.5°	133.5
67.6	68.5	71.7	78.5	88.1	99.6	112.3	127.9	149.8	175.4	205.0	165°	136.0
64.8	65.3	66.2	71.2	79.5	90.0	102.8	115.1	134.7	158.9	187.7	167.5°	137.1
61.7	62.1	62.6	65.3	71.2	80.4	91.3	101.4	119.2	140.7	168.1	170°	137.4
58.5	59.4	60.3	61.2	65.3	71.2	79.5	88.1	100.5	119.2	141.6	172.5°	138.6
54.3	55.3	56.6	57.5	58.9	62.6	67.6	73.1	79.5	92.7	111.0	175°	140.5
50.7	51.6	52.1	52.5	53.4	54.3	56.2	57.5	60.7	68.5	81.3	177.5°	141.1
45.7	46.6	46.6	47.0	47.5	47.5	48.4	48.9	49.8	52.1	57.5	180°	140.8
41.6	42.0	42.5	42.9	42.9	42.9	42.5	42.9	42.5	42.5	44.8		
36.5	37.0	37.4	37.9	38.4	38.8	39.3	39.3	38.8	37.9	37.9		
31.1	31.1	32.0	32.4	32.9	34.3	35.2	34.3	34.3	33.8	33.8		
26.0	26.9	27.4	27.4	28.3	29.7	30.6	30.1	28.8	28.8	29.2		
20.1	20.6	21.0	21.5	21.9	23.3	24.7	25.1	24.2	24.7	24.7		
13.2	13.7	14.6	15.1	15.5	16.9	18.3	19.6	19.2	20.1	19.2		
5.9	6.9	7.3	7.3	8.7	10.0	11.9	13.2	15.1	15.5	14.2		
0.0	0.5	0.5	0.5	1.8	3.2	5.9	9.1	12.3	9.6	7.3		
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		

'160113
 ENV-E01-LED-E1-SLR-7030-ULG

REPORT NUMBER: P160113
 CATALOG NUMBER: ENV-E01-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°	296.4	296.4
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	294.6	295.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	298.7	298.7
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	304.6	304.6
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	312.4	311.0
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	316.9	314.6
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	319.7	317.4
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	320.6	320.6
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	322.9	326.5
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	330.6	339.8
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	353.5	366.3
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	371.3	388.2
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	372.6	393.7
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	364.4	387.3
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	352.1	378.1
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	337.0	366.3
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	319.7	349.8
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	303.7	334.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	292.3	325.2
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	279.9	315.1
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	260.3	301.9
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	239.3	280.9
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	220.1	259.8
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	199.6	239.8
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	172.6	212.8
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	137.9	175.8
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	99.1	131.1
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	67.1	89.1
										70°	48.9	60.7
										72.5°	39.7	45.7
										75°	35.2	38.4
										77.5°	31.1	32.9
										80°	24.7	26.5
										82.5°	19.2	21.0
										85°	14.2	15.5
										87.5°	6.4	6.4
										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: P160113

CATALOG NUMBER: ENV-E01-LED-E1-SLI

LED-E1-SLR-7030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	296.4	112.5°	21.2	21.2	21.2
295.5	295.9	295.9	296.8	297.3	298.2	298.7	298.7	298.7	115°	25.0	25.0	25.0
299.6	300.0	300.5	301.9	302.3	303.7	305.1	305.5	306.9	117.5°	29.5	29.5	29.5
304.6	306.0	306.4	307.3	308.3	310.5	312.4	313.3	314.6	120°	34.8	34.8	34.8
310.5	311.0	311.0	311.9	314.2	315.6	317.8	322.0	324.7	122.5°	40.9	40.9	40.9
314.6	313.3	314.2	315.1	317.4	320.6	324.2	330.2	335.7	125°	47.8	47.8	47.8
317.4	317.4	319.7	321.5	325.6	330.6	337.5	345.7	353.9	127.5°	55.3	55.3	55.3
322.4	323.8	328.8	332.5	339.8	347.1	355.7	367.2	379.5	130°	63.0	63.0	63.0
331.5	335.2	340.7	346.6	353.9	364.9	379.5	394.1	410.6	132.5°	70.5	70.5	70.5
346.2	354.4	363.5	370.8	379.5	395.0	411.0	429.3	449.8	135°	77.9	77.9	77.9
378.1	387.3	401.0	413.3	425.6	448.0	468.5	489.6	517.4	137.5°	85.3	85.3	85.3
406.0	420.6	442.1	459.9	476.8	503.7	526.5	561.3	590.9	140°	92.5	92.5	92.5
417.9	441.6	468.5	494.1	525.6	552.1	585.9	627.5	666.3	142.5°	99.2	99.2	99.2
415.1	443.9	477.7	512.4	549.8	592.3	631.1	677.7	728.4	145°	104.9	104.9	104.9
408.7	441.1	480.4	522.0	566.7	619.7	668.6	726.6	789.6	147.5°	110.1	110.1	110.1
401.0	438.9	482.7	531.6	587.7	650.8	713.8	789.6	868.1	150°	115.1	115.1	115.1
389.1	432.5	485.4	546.2	615.1	689.1	771.8	862.2	946.7	152.5°	119.7	119.7	119.7
375.8	424.7	488.6	566.3	653.0	744.8	840.3	932.5	1028.9	155°	123.7	123.7	123.7
367.2	422.4	496.9	589.6	690.5	796.9	903.3	1004.2	1109.3	157.5°	127.0	127.0	127.0
362.1	423.8	505.5	606.9	718.4	835.7	948.5	1064.5	1174.6	160°	130.3	130.3	130.3
357.6	427.4	513.3	617.9	736.2	860.8	984.1	1109.3	1231.2	162.5°	133.5	133.5	133.5
345.7	426.1	516.0	621.1	745.3	877.3	1008.8	1140.8	1270.5	165°	136.0	136.0	136.0
325.2	413.3	510.1	617.9	748.0	886.9	1024.8	1164.1	1292.8	167.5°	137.1	137.1	137.1
297.8	387.3	489.1	604.2	738.4	882.3	1030.3	1179.1	1305.6	170°	137.4	137.4	137.4
267.2	346.6	452.1	572.7	707.4	854.4	1006.1	1165.0	1291.0	172.5°	138.6	138.6	138.6
225.1	295.9	401.9	519.2	650.8	796.9	934.4	1107.9	1236.2	175°	140.5	140.5	140.5
172.2	235.2	326.5	446.2	580.0	707.8	832.5	1006.1	1148.5	177.5°	141.1	141.1	141.1
118.7	167.6	244.3	348.9	474.0	591.9	716.1	878.2	1044.4	180°	140.8	140.8	140.8
77.2	108.7	161.7	242.0	341.1	449.8	553.0	701.5	879.6				
54.8	69.4	98.6	149.3	224.7	308.7	393.2	493.7	663.5				
43.4	50.7	60.7	86.8	131.5	192.3	260.3	323.8	465.8				
35.2	38.4	43.4	53.4	77.6	111.0	153.4	204.1	289.5				
28.3	30.6	33.8	37.9	48.0	63.9	89.1	112.3	165.3				
22.8	25.6	26.5	26.9	31.1	36.5	47.0	63.5	94.5				
16.4	17.4	17.4	17.8	18.7	20.1	26.9	46.6	69.0				
6.4	5.5	5.9	4.6	5.0	5.5	8.7	10.0	16.0				
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: P160113

CATALOG NUMBER: ENV-E01-LED-E1-SLR-7030-UL

R-7030-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°	296.4	296.4	296.4	296.4
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	300.0	300.0	299.6	299.6
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	307.8	309.2	308.3	309.6
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	317.8	318.8	319.7	321.5
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	328.3	331.5	334.7	336.1
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	340.7	346.6	353.0	356.2
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	362.1	371.3	378.6	383.6
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	390.5	402.8	415.1	423.8
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	426.5	444.3	461.7	472.7
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	472.2	493.2	512.4	533.4
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	535.2	564.5	598.2	616.5
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	625.2	664.9	688.7	729.3
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	711.0	759.9	817.4	873.6
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	783.7	855.4	939.8	1025.2
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	859.9	950.8	1048.5	1158.1
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	951.3	1045.3	1150.8	1270.9
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	1034.4	1141.7	1270.9	1381.9
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1126.2	1240.3	1386.0	1514.3
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	1215.2	1334.4	1493.8	1634.4
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1293.3	1413.0	1582.8	1729.4
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	1355.9	1489.2	1655.0	1795.6
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1404.7	1545.8	1709.8	1841.3
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	1430.3	1572.8	1726.7	1860.5
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1434.0	1571.0	1712.5	1843.1
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	1399.3	1520.7	1655.9	1792.5
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1321.6	1416.6	1544.9	1680.1
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	1222.1	1284.2	1369.6	1502.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1124.3	1165.4	1210.2	1307.9
								70°	974.1	1008.3	1053.1	1113.8
								72.5°	757.6	802.8	834.8	893.7
								75°	569.5	595.5	641.6	696.0
								77.5°	400.5	427.0	479.5	541.6
								80°	269.0	287.2	319.7	373.1
								82.5°	164.9	185.9	213.3	259.4
								85°	110.5	143.4	178.6	213.3
								87.5°	46.6	78.5	99.6	104.6
								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: P160113

CATALOG NUMBER: ENV-E01-LED-E1-SLR-7030-ULG

G

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
296.4	296.4	296.4	296.4	296.4	296.4	296.4	112.5°	21.2	21.2	21.2	21.2	21.2
300.9	300.5	301.4	301.4	300.9	300.9	302.3	115°	25.0	25.0	25.0	25.0	25.0
310.5	311.0	311.9	311.0	312.8	310.5	311.0	117.5°	29.5	29.5	29.5	29.5	29.5
323.8	324.2	325.6	325.2	326.5	325.2	323.3	120°	34.8	34.8	34.8	34.8	34.8
340.7	341.6	341.6	343.9	346.2	343.4	340.2	122.5°	40.9	40.9	40.9	40.9	40.9
360.3	363.5	362.1	366.7	369.0	367.2	364.9	125°	47.8	47.8	47.8	47.8	47.8
387.3	393.7	392.7	401.4	404.6	403.2	403.7	127.5°	55.3	55.3	55.3	55.3	55.3
427.4	436.6	438.0	451.7	460.3	459.0	456.7	130°	63.0	63.0	63.0	63.0	63.0
474.0	497.8	503.3	515.1	524.7	528.4	527.9	132.5°	70.5	70.5	70.5	70.5	70.5
553.0	570.4	582.7	604.2	612.9	621.1	618.8	135°	77.9	77.9	77.9	77.9	77.9
643.0	659.0	686.4	713.8	722.5	730.2	740.3	137.5°	85.3	85.3	85.3	85.3	85.3
758.1	781.4	824.8	861.7	882.8	876.4	873.2	140°	92.5	92.5	92.5	92.5	92.5
913.8	972.3	1004.2	1034.4	1048.1	1028.0	1002.4	142.5°	99.2	99.2	99.2	99.2	99.2
1100.1	1168.6	1188.7	1203.3	1177.3	1149.9	1075.0	145°	104.9	104.9	104.9	104.9	104.9
1236.7	1303.8	1345.4	1360.9	1305.2	1223.9	1122.5	147.5°	110.1	110.1	110.1	110.1	110.1
1360.0	1428.0	1446.3	1453.1	1378.2	1273.2	1174.6	150°	115.1	115.1	115.1	115.1	115.1
1491.0	1548.1	1558.6	1555.0	1455.4	1331.2	1239.0	152.5°	119.7	119.7	119.7	119.7	119.7
1610.2	1668.7	1659.1	1643.1	1529.9	1404.3	1302.4	155°	123.7	123.7	123.7	123.7	123.7
1723.5	1766.4	1749.1	1709.3	1600.2	1460.4	1352.2	157.5°	127.0	127.0	127.0	127.0	127.0
1799.3	1835.4	1816.7	1766.4	1648.6	1498.4	1379.6	160°	130.3	130.3	130.3	130.3	130.3
1856.8	1884.2	1873.3	1800.7	1676.9	1521.6	1391.9	162.5°	133.5	133.5	133.5	133.5	133.5
1885.6	1912.6	1906.2	1807.1	1680.6	1525.3	1386.0	165°	136.0	136.0	136.0	136.0	136.0
1896.1	1926.7	1904.3	1783.3	1656.4	1511.6	1365.5	167.5°	137.1	137.1	137.1	137.1	137.1
1887.4	1901.6	1868.7	1738.1	1607.0	1469.1	1336.2	170°	137.4	137.4	137.4	137.4	137.4
1855.5	1845.4	1800.2	1659.6	1537.2	1410.2	1303.8	172.5°	138.6	138.6	138.6	138.6	138.6
1766.0	1739.9	1703.4	1568.7	1444.0	1317.1	1253.6	175°	140.5	140.5	140.5	140.5	140.5
1581.5	1574.2	1557.3	1457.3	1333.5	1212.5	1171.8	177.5°	141.1	141.1	141.1	141.1	141.1
1344.9	1337.6	1339.9	1272.3	1182.8	1065.0	1065.9	180°	140.8	140.8	140.8	140.8	140.8
1153.1	1112.9	1065.4	992.8	940.8	924.8	976.4						
928.0	906.0	867.2	803.7	744.8	765.4	880.9						
717.4	704.2	732.5	739.8	717.0	703.3	742.6						
587.7	616.5	661.7	719.3	724.7	704.6	630.2						
447.5	522.4	585.0	662.6	654.4	611.0	529.7						
313.3	385.9	444.8	510.1	507.8	468.1	427.9						
239.8	262.6	285.0	353.5	380.0	349.4	305.5						
113.3	114.2	137.5	169.4	181.8	207.3	204.6						
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						
0.5	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: P160113

CATALOG NUMBER: ENV-E01-LED-E1-SLR-7030-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°	296.4	296.4	296.4	296.4	296.4	296.4
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	302.8	302.3	302.3	302.3	302.8	302.3
29.5	29.5	29.5	29.5	29.5	29.5	5°	311.9	311.0	310.5	310.5	310.1	310.1
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	323.8	322.0	322.0	320.6	320.1	318.8
40.9	40.9	40.9	40.9	40.9	40.9	10°	339.8	337.9	337.5	333.8	333.8	330.6
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	363.1	363.1	363.1	358.5	357.6	352.1
55.3	55.3	55.3	55.3	55.3	55.3	15°	403.2	399.6	402.8	395.0	394.6	387.3
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	457.6	457.6	451.2	447.5	445.3	434.8
70.5	70.5	70.5	70.5	70.5	70.5	20°	529.7	530.2	519.2	509.2	504.6	492.8
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	621.5	612.9	599.2	591.9	584.5	564.9
85.3	85.3	85.3	85.3	85.3	85.3	25°	742.1	738.4	714.2	687.8	676.8	647.1
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	860.4	852.6	813.8	768.6	740.7	700.1
99.2	99.2	99.2	99.2	99.2	99.2	30°	964.5	913.4	867.2	812.9	770.4	719.7
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1018.8	954.5	887.3	842.6	789.1	733.0
110.1	110.1	110.1	110.1	110.1	110.1	35°	1060.9	991.9	925.2	867.2	806.9	743.5
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1114.3	1041.7	968.2	899.2	825.7	751.2
119.7	119.7	119.7	119.7	119.7	119.7	40°	1173.7	1090.5	999.7	916.1	833.4	748.5
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1223.0	1122.5	1015.6	921.6	830.7	737.1
127.0	127.0	127.0	127.0	127.0	127.0	45°	1250.4	1135.8	1017.0	915.6	819.7	722.9
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1263.2	1136.2	1007.9	902.4	805.1	702.8
133.5	133.5	133.5	133.5	133.5	133.5	50°	1261.8	1124.8	990.5	884.6	788.7	681.8
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1248.1	1106.1	970.4	870.4	774.5	664.0
137.1	137.1	137.1	137.1	137.1	137.1	55°	1227.1	1086.0	950.3	860.8	762.6	649.4
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1203.3	1068.6	935.7	859.0	755.8	646.7
138.6	138.6	138.6	138.6	138.6	138.6	60°	1192.8	1070.4	944.9	846.2	752.1	652.6
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1186.0	1087.8	963.6	854.9	758.1	677.7
141.1	141.1	141.1	141.1	141.1	141.1	65°	1158.1	1112.0	992.4	885.9	801.0	736.6
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1124.8	1118.9	1003.8	904.2	849.9	813.3
						70°	1090.1	1111.5	1020.2	952.2	922.0	907.4
						72.5°	1034.4	1059.0	974.1	933.4	924.3	913.8
						75°	862.7	867.2	802.4	780.0	796.0	771.3
						77.5°	620.2	632.0	590.0	596.0	648.0	594.6
						80°	459.4	412.8	386.3	404.2	453.9	377.7
						82.5°	378.6	306.4	259.8	284.1	303.2	222.9
						85°	291.4	233.8	192.3	155.3	148.0	95.4
						87.5°	228.8	169.0	94.1	53.0	35.6	2.3
						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



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CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
296.4	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
302.8	115°	25.0	25.0	25.0	25.0	25.0	25.0
310.1	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
318.8	120°	34.8	34.8	34.8	34.8	34.8	34.8
332.0	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
351.2	125°	47.8	47.8	47.8	47.8	47.8	47.8
385.4	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
429.7	130°	63.0	63.0	63.0	63.0	63.0	63.0
484.1	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
545.3	135°	77.9	77.9	77.9	77.9	77.9	77.9
615.1	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
658.1	140°	92.5	92.5	92.5	92.5	92.5	92.5
667.2	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
673.6	145°	104.9	104.9	104.9	104.9	104.9	104.9
675.4	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
672.7	150°	115.1	115.1	115.1	115.1	115.1	115.1
661.7	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
647.6	155°	123.7	123.7	123.7	123.7	123.7	123.7
629.8	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
607.8	160°	130.3	130.3	130.3	130.3	130.3	130.3
587.3	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
571.3	165°	136.0	136.0	136.0	136.0	136.0	136.0
561.3	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
562.6	170°	137.4	137.4	137.4	137.4	137.4	137.4
576.8	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
612.4	175°	140.5	140.5	140.5	140.5	140.5	140.5
680.0	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
746.2	180°	140.8	140.8	140.8	140.8	140.8	140.8
810.1							
768.1							
586.4							
422.0							
244.8							
153.0							
66.2							
2.3							
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)