

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: P160176

Luminaire Tested: **ENV-F01-LED-E1-SLR-8030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160176
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-8030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2011.8 lumens
Efficiency: N/A
Efficacy: 59.3 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

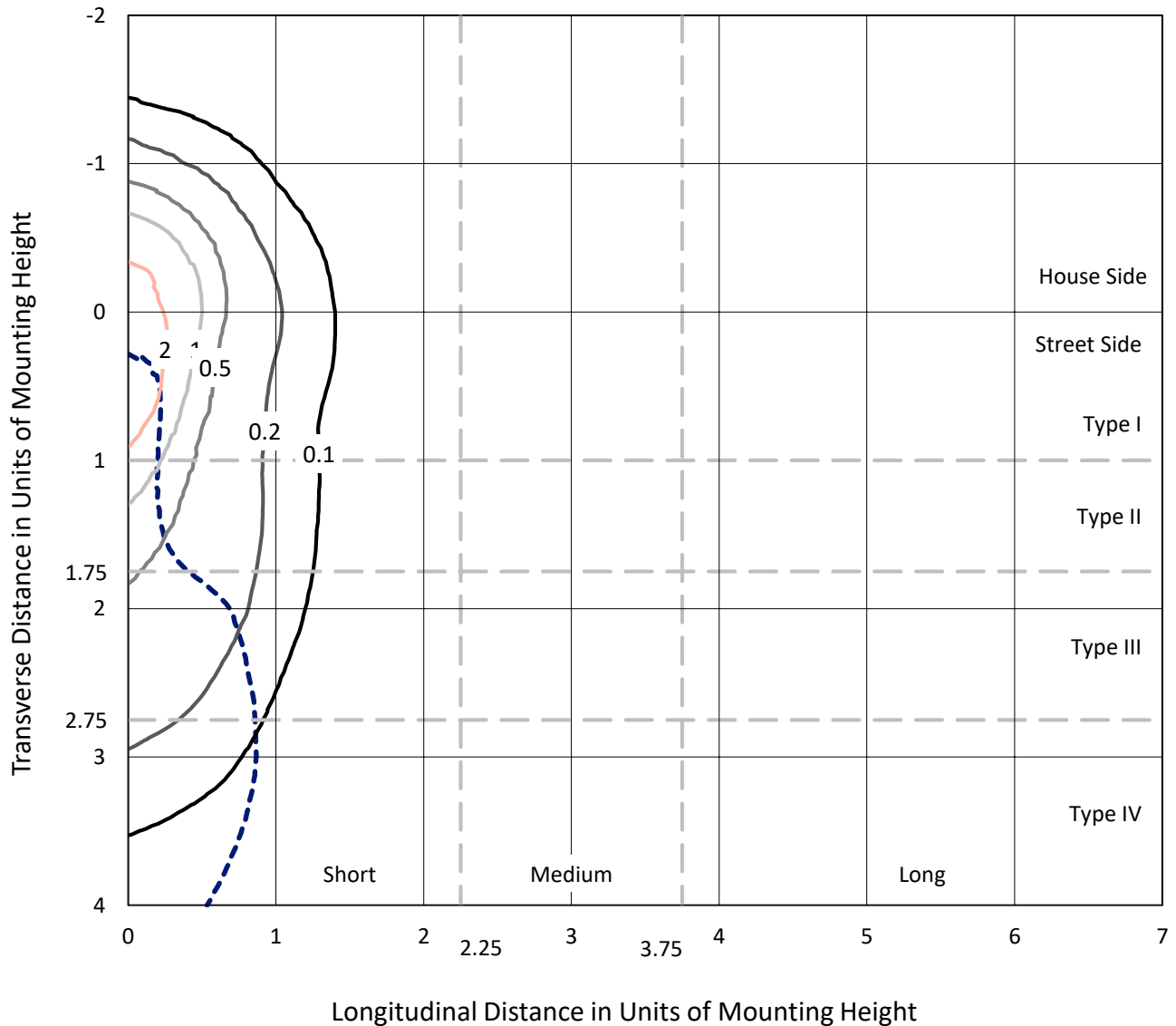
Input Watts (W): 33.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

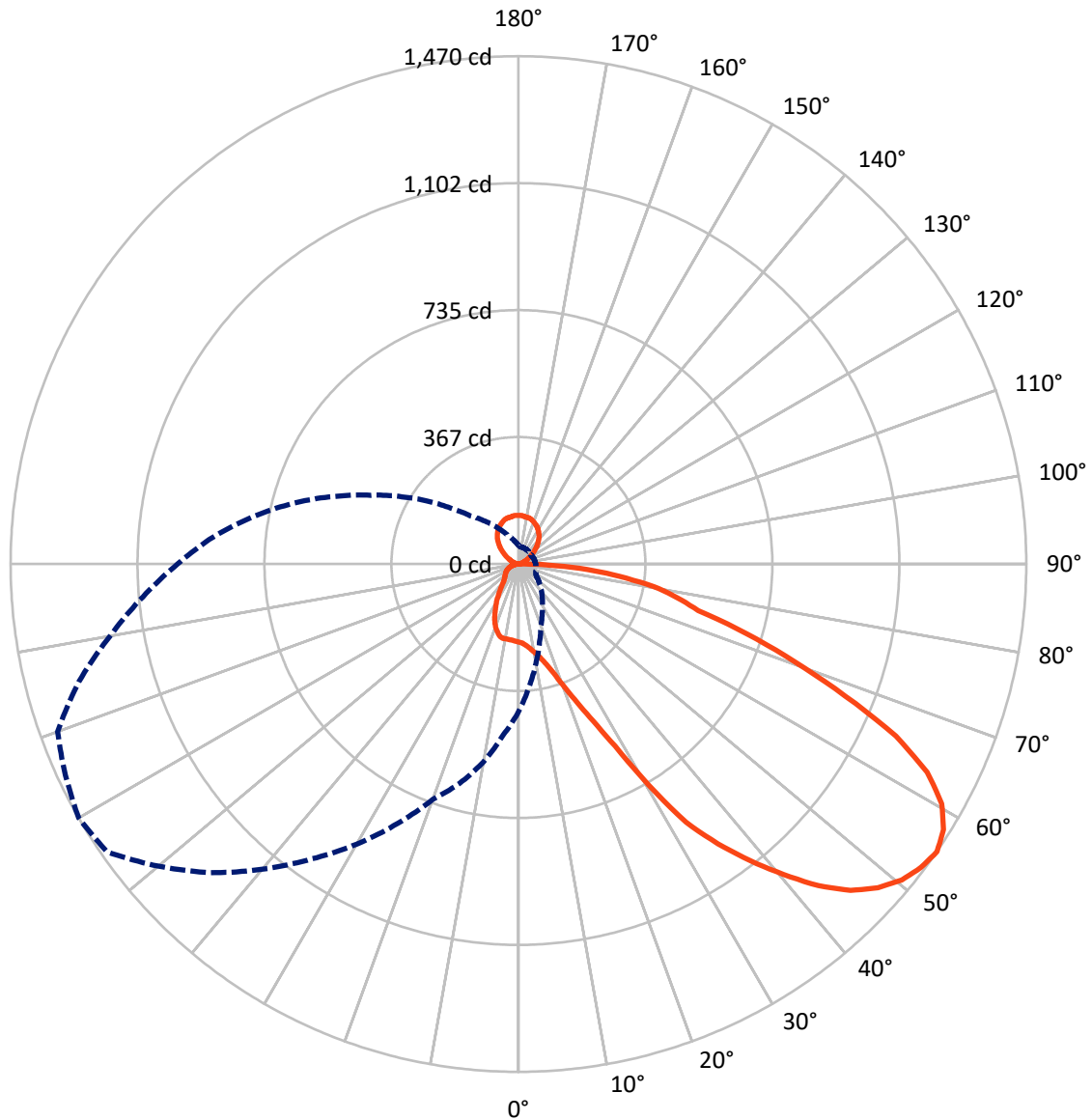
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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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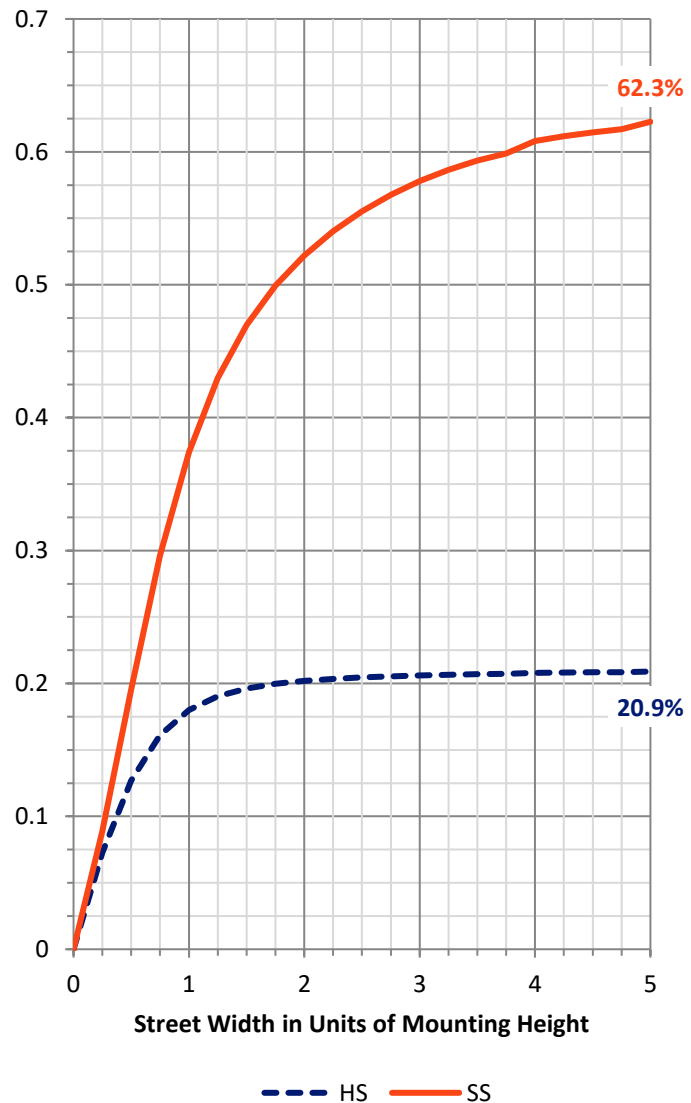
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	424.0	157.7	581.7
	% Fixture	21.1	7.8	28.9
Street Side	Lumens	1272.3	157.7	1430.0
	% Fixture	63.2	7.8	71.1
Total	Lumens	1696.3	315.5	2011.8
	% Fixture	84.3	15.7	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	1.1
10°-20°	73.2	3.6
20°-30°	142.1	7.1
30°-40°	223.2	11.1
40°-50°	298.4	14.8
50°-60°	350.1	17.4
60°-70°	332.2	16.5
70°-80°	200.5	10.0
80°-90°	54.3	2.7
90°-100°	1.3	0.1
100°-110°	12.3	0.6
110°-120°	25.2	1.3
120°-130°	43.0	2.1
130°-140°	60.0	3.0
140°-150°	65.4	3.2
150°-160°	56.9	2.8
160°-170°	38.2	1.9
170°-180°	13.3	0.7
0°-90°	1696.3	84.3
0°-180°	2011.8	100.0



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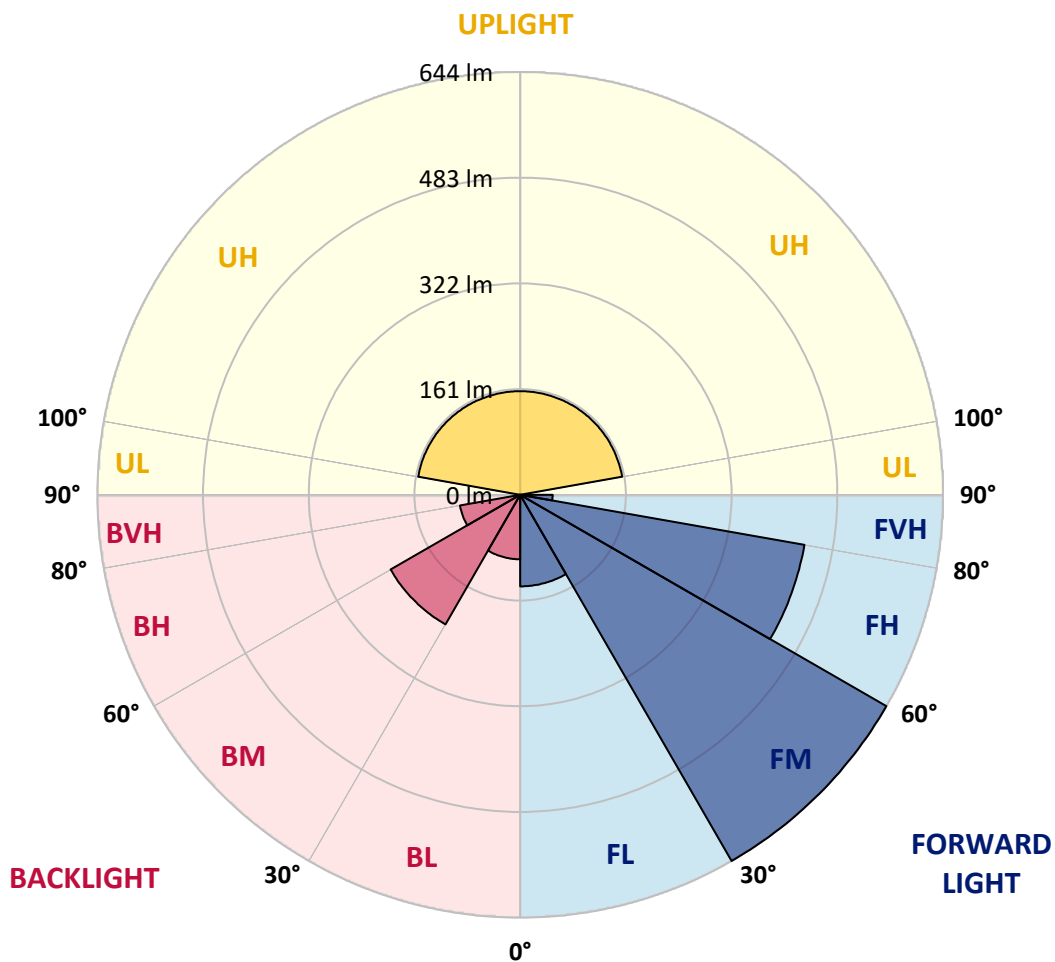
CATALOG NUMBER: ENV-F01-LED-E1-SLR-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	139.4	6.9			
FM	(30°-60°)	643.9	32.0			
FH	(60°-80°)	439.6	21.8			G0/660
FVH	(80°-90°)	49.4	2.5			G1/100
BL	(0°-30°)	98.1	4.9	B0/110		
BM	(30°-60°)	227.8	11.3	B1/1000		
BH	(60°-80°)	93.1	4.6	B0/110		G0/110
BVH	(80°-90°)	4.9	0.2			G0/10
UL	(90°-100°)	1.3	0.1		U1/10	
UH	(100°-180°)	157.7	7.8		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°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	231.0	232.7	230.6	231.0	230.3	229.6	229.9	229.6	228.9	228.9	228.2
5°	236.5	236.9	235.5	235.1	234.5	233.4	233.8	232.7	232.0	231.3	229.9
7.5°	243.2	242.8	241.1	240.0	239.7	237.9	237.6	236.2	235.1	234.1	232.4
10°	253.3	250.5	248.4	246.6	245.9	243.9	242.1	241.4	239.7	237.2	235.8
12.5°	267.9	266.2	262.0	258.5	256.4	253.6	251.2	249.4	246.6	243.2	241.4
15°	294.0	288.4	283.6	278.3	274.2	269.6	263.7	259.2	254.3	248.4	243.9
17.5°	327.8	320.8	313.2	304.8	296.1	286.4	274.9	266.2	256.4	246.3	239.3
20°	369.3	356.4	345.6	329.6	313.5	298.2	280.1	264.8	250.8	237.6	227.5
22.5°	416.0	396.4	374.5	350.1	324.3	300.6	275.2	254.3	234.1	217.7	206.2
25°	469.3	438.6	405.2	368.2	331.3	296.1	264.8	238.6	217.0	197.5	184.6
27.5°	502.0	460.2	420.1	376.2	334.1	293.3	255.0	224.7	200.0	179.1	164.1
30°	509.0	466.8	419.8	372.1	328.5	283.9	242.1	208.3	180.8	158.9	143.9
32.5°	513.8	465.1	412.8	359.9	312.5	265.5	223.0	189.5	160.2	138.7	121.2
35°	515.2	458.5	399.6	340.7	290.9	242.8	200.3	165.1	139.7	118.4	102.8
37.5°	513.1	447.7	381.8	320.8	267.5	217.4	175.6	144.9	123.3	102.8	88.8
40°	504.8	434.1	365.8	301.7	243.9	192.0	154.7	128.2	109.7	94.1	83.3
42.5°	494.0	418.4	348.0	279.4	220.9	171.7	138.0	116.7	101.0	89.9	80.8
45°	480.4	402.0	329.6	259.5	201.4	156.4	128.2	110.4	98.2	88.5	80.1
47.5°	463.7	384.6	311.8	244.6	188.1	148.8	126.1	110.4	98.2	87.8	78.7
50°	448.0	368.9	298.2	235.1	182.2	149.1	128.2	111.8	97.9	86.4	76.3
52.5°	435.8	359.5	292.6	231.7	182.9	152.6	132.4	113.9	98.9	86.4	75.6
55°	428.1	355.7	291.9	234.8	190.2	162.0	139.0	120.2	103.8	89.2	76.6
57.5°	429.2	359.9	300.3	247.7	206.9	178.4	152.2	131.3	110.8	92.7	77.0
60°	440.0	373.8	320.5	278.0	234.8	200.3	169.0	141.1	113.9	91.6	74.6
62.5°	467.2	406.5	363.0	319.5	269.3	221.9	179.1	142.8	110.4	86.4	68.6
65°	518.7	465.4	423.6	369.3	297.9	231.0	178.0	137.6	103.8	78.0	60.6
67.5°	569.2	512.8	453.9	372.1	290.9	224.3	166.5	124.7	92.0	66.9	53.6
70°	618.0	544.8	469.3	368.6	270.7	193.0	139.0	104.2	73.2	55.7	46.0
72.5°	586.0	501.6	424.3	325.0	232.7	158.5	110.8	75.6	56.1	46.0	39.7
75°	447.3	388.8	321.5	249.4	171.7	111.8	73.9	53.6	43.2	36.2	32.4
77.5°	321.9	278.3	223.3	163.7	107.3	70.7	50.2	38.3	32.0	27.2	25.1
80°	186.7	160.2	125.1	90.2	61.3	44.2	33.4	27.2	23.3	19.9	19.2
82.5°	116.7	93.4	66.2	44.6	31.4	24.4	19.5	16.7	13.9	12.2	10.5
85°	50.5	36.2	20.6	11.5	8.7	6.6	5.2	4.5	3.8	3.5	2.8
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.1	2.1	2.1	2.1	1.7
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-8030-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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	228.2	227.5	227.1	227.1	226.4	226.4	225.7	226.1	225.7	225.0	224.7
5°	229.6	228.5	227.8	227.1	226.1	225.7	225.0	225.0	224.0	223.0	222.6
7.5°	231.3	229.9	228.9	227.5	226.1	225.4	224.0	223.3	222.3	221.2	220.9
10°	234.8	232.4	230.6	228.9	226.4	225.0	223.0	221.9	220.9	219.5	218.8
12.5°	238.6	235.5	233.1	228.9	226.4	224.0	221.9	219.8	217.7	216.3	216.0
15°	238.6	234.8	229.6	225.7	222.3	218.8	216.7	214.6	212.2	211.1	210.8
17.5°	232.7	226.1	221.2	217.0	213.9	211.1	209.0	208.0	205.9	203.8	203.1
20°	219.1	211.5	205.9	201.4	197.9	195.1	194.4	193.3	192.3	192.3	192.6
22.5°	196.8	188.5	183.6	178.7	174.9	173.5	173.8	174.9	175.2	174.9	177.3
25°	174.5	166.5	159.9	155.4	150.8	151.9	150.5	152.9	154.0	154.3	157.1
27.5°	152.9	144.2	137.3	133.4	131.3	129.9	128.9	132.0	132.7	135.2	137.6
30°	129.9	121.9	113.9	110.8	109.0	108.0	108.3	111.1	112.9	116.4	118.4
32.5°	108.7	98.9	93.0	88.8	87.1	86.7	87.1	89.2	91.3	95.8	98.9
35°	90.6	81.2	76.3	73.9	71.4	70.4	71.4	72.1	72.8	76.6	80.5
37.5°	80.1	73.5	69.7	67.2	65.5	64.4	64.4	64.1	64.4	65.1	66.9
40°	75.6	70.7	67.2	64.8	63.4	62.7	62.4	62.0	61.7	61.7	61.7
42.5°	73.9	68.3	64.8	62.7	62.0	62.0	62.0	61.7	61.0	60.3	59.9
45°	72.5	66.5	62.7	61.0	61.0	61.0	61.3	61.0	60.3	59.2	58.2
47.5°	70.0	64.1	60.6	59.2	59.2	59.2	59.6	59.2	58.5	57.8	56.8
50°	67.2	61.0	57.5	56.4	56.1	56.1	55.7	55.4	55.0	54.3	53.3
52.5°	65.5	58.9	55.7	55.0	54.3	54.0	53.3	53.0	52.3	51.9	50.9
55°	65.1	57.5	54.7	54.0	53.3	52.3	50.9	50.2	48.8	48.4	47.7
57.5°	64.1	56.1	53.0	51.2	49.5	48.4	47.0	46.3	45.6	44.9	44.2
60°	60.6	51.9	48.1	47.0	46.0	45.6	44.9	44.2	43.2	42.2	40.8
62.5°	54.0	46.7	44.2	43.9	43.5	42.8	42.2	41.1	40.4	39.0	37.6
65°	48.8	43.9	42.5	41.8	41.5	40.4	39.7	39.0	38.0	36.9	35.5
67.5°	44.2	40.8	40.1	39.0	38.7	38.0	36.9	36.2	35.2	34.1	32.7
70°	40.1	37.3	36.9	36.2	35.5	35.2	33.8	32.7	32.4	31.0	30.0
72.5°	35.5	33.8	33.1	32.4	31.7	31.4	30.7	30.0	29.3	27.9	26.5
75°	29.6	28.9	28.6	27.9	27.5	26.8	25.8	24.7	24.4	23.3	22.3
77.5°	23.7	23.0	23.0	22.3	21.3	20.2	19.2	17.8	17.8	17.8	17.1
80°	16.7	16.0	15.0	14.6	13.9	13.2	12.2	11.5	10.8	10.8	10.8
82.5°	9.8	9.4	8.7	7.7	7.0	6.6	5.6	4.9	4.5	3.8	3.8
85°	2.1	2.1	1.4	1.4	1.0	1.0	1.0	0.7	0.7	0.3	0.3
87.5°	1.7	1.7	1.7	1.4	1.4	1.4	1.0	1.0	1.0	0.7	0.7
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: P160176

CATALOG NUMBER: ENV-F01-LED-E1-SLR-8030-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-8030-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1
2.5°	224.7	224.3	223.7	222.3	221.9	221.6	221.9	221.9	221.6	221.9	222.3
5°	222.6	222.3	221.2	220.5	219.8	219.8	221.9	221.9	220.9	221.2	222.6
7.5°	220.9	220.9	220.2	219.8	220.2	221.2	223.0	224.3	224.0	226.1	226.8
10°	218.8	219.1	219.5	220.9	223.0	224.7	227.5	229.9	230.6	232.4	233.4
12.5°	216.7	218.1	219.8	222.6	225.4	228.2	231.3	234.1	234.5	236.2	237.6
15°	211.5	213.5	216.0	219.1	223.3	226.4	231.0	233.1	233.8	234.8	236.5
17.5°	203.4	204.5	206.2	209.7	214.2	218.4	223.7	227.1	229.2	230.6	231.3
20°	192.6	194.7	195.8	198.9	201.4	204.5	211.5	216.0	220.2	222.3	224.3
22.5°	177.7	180.1	182.5	185.7	187.1	189.2	195.8	202.8	209.0	213.2	215.6
25°	158.9	161.6	165.1	169.0	170.7	172.8	180.5	187.4	195.1	202.4	205.9
27.5°	140.0	143.5	147.0	151.5	154.3	156.8	163.4	170.0	178.0	185.0	188.5
30°	121.9	126.8	129.9	135.2	137.6	140.0	146.0	153.3	158.9	166.9	171.4
32.5°	103.1	106.6	112.5	118.4	121.2	123.7	129.2	135.5	140.4	148.4	155.0
35°	86.0	89.2	95.5	101.4	103.1	106.9	112.5	118.1	122.6	129.9	136.2
37.5°	70.0	75.2	80.1	84.7	88.5	91.3	96.5	101.4	103.8	110.8	117.4
40°	62.4	64.8	68.3	72.5	74.9	77.7	81.5	85.7	88.5	93.4	98.9
42.5°	59.6	59.6	60.6	62.7	65.8	67.2	70.7	72.8	76.6	78.7	83.6
45°	57.5	56.8	57.1	57.1	58.2	59.2	62.0	64.1	66.5	68.3	71.4
47.5°	55.7	54.3	54.0	53.3	53.0	53.6	55.7	57.5	58.5	59.9	61.0
50°	51.9	50.9	49.8	49.1	48.8	49.5	51.2	52.6	53.0	53.6	54.3
52.5°	49.8	48.4	47.4	46.3	46.3	47.0	48.4	49.5	49.8	50.2	50.9
55°	47.0	46.3	45.6	44.6	44.2	45.3	46.3	47.4	48.1	48.1	48.8
57.5°	43.5	42.8	43.5	43.2	42.8	43.5	44.9	46.0	46.3	46.3	46.7
60°	40.1	39.7	39.7	40.4	41.1	42.2	43.2	44.6	44.2	43.5	43.9
62.5°	36.9	36.6	36.9	38.0	39.0	40.1	41.5	42.5	41.5	40.8	40.8
65°	34.8	34.5	34.8	35.2	35.5	36.6	38.3	38.7	38.0	38.0	38.0
67.5°	32.0	31.7	31.4	31.7	32.0	32.4	33.8	34.1	34.1	34.1	34.1
70°	28.6	28.2	27.9	27.9	27.9	28.2	28.6	29.3	30.0	30.7	31.0
72.5°	24.7	24.0	24.0	24.0	23.3	23.7	24.0	25.4	26.1	26.8	27.5
75°	20.9	20.2	20.2	19.5	19.9	20.2	20.2	20.9	21.6	22.6	23.3
77.5°	16.4	16.4	16.4	16.0	16.0	16.4	16.7	16.7	17.4	18.5	19.5
80°	10.5	10.5	11.1	11.5	11.8	12.2	12.9	13.2	13.6	14.6	15.0
82.5°	3.8	4.2	4.5	4.5	5.6	7.0	7.3	8.4	9.1	10.1	10.1
85°	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.4	2.1	3.1	3.8
87.5°	0.7	0.3	0.3	0.3	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°
226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	112.5°	21.2
222.6	223.7	223.3	223.0	223.3	224.0	223.7	224.0	224.3	225.0	224.7	115°	25.0
223.0	224.0	224.3	224.3	225.0	226.1	226.1	226.4	226.8	227.5	227.5	117.5°	29.5
227.8	230.3	230.3	230.6	231.7	232.7	233.1	233.4	233.1	233.1	233.1	120°	34.8
235.1	237.9	238.3	240.0	241.4	241.1	241.1	241.4	240.7	240.0	239.0	122.5°	40.9
239.0	241.4	242.1	243.9	245.9	246.3	247.3	248.0	247.3	245.6	243.9	125°	47.8
237.9	240.0	241.4	243.5	245.9	247.3	249.4	250.1	249.8	247.7	245.6	127.5°	55.3
233.4	235.8	237.6	240.4	243.2	245.3	247.3	248.4	248.4	246.6	245.3	130°	63.0
226.1	228.9	231.3	234.5	237.9	240.4	242.8	243.5	243.5	242.8	243.9	132.5°	70.5
218.4	221.6	224.3	227.5	232.0	234.5	237.2	239.3	240.4	241.8	246.3	135°	77.9
208.7	210.1	213.5	217.0	223.3	227.5	233.4	239.0	244.6	250.8	259.9	137.5°	85.3
191.6	194.0	198.2	203.1	209.4	217.0	227.8	238.6	248.7	258.1	269.3	140°	92.5
177.3	181.8	186.4	192.0	198.6	205.9	218.4	232.4	244.6	255.7	267.9	142.5°	99.2
162.0	167.6	173.5	180.8	187.1	193.7	204.1	219.5	234.1	246.6	259.5	145°	104.9
144.2	150.1	156.1	163.7	170.4	178.7	188.1	203.1	219.8	234.1	249.4	147.5°	110.1
125.1	130.3	136.9	143.9	151.5	161.3	171.4	185.3	202.8	218.1	235.5	150°	115.1
106.9	112.5	119.1	126.8	134.5	144.9	156.4	169.7	185.7	202.1	220.5	152.5°	119.7
89.9	97.2	104.2	111.8	119.8	129.6	141.8	156.1	172.1	189.5	209.0	155°	123.7
75.6	81.2	88.5	94.8	103.5	112.9	125.4	141.4	159.9	178.4	198.9	157.5°	127.0
63.1	66.5	72.8	80.5	88.5	98.2	108.7	124.7	143.5	163.7	186.7	160°	130.3
55.4	57.1	61.7	68.6	76.3	86.0	95.1	109.0	127.9	147.7	171.4	162.5°	133.5
51.6	52.3	54.7	59.9	67.2	75.9	85.7	97.5	114.3	133.8	156.4	165°	136.0
49.5	49.8	50.5	54.3	60.6	68.6	78.4	87.8	102.8	121.2	143.2	167.5°	137.1
47.0	47.4	47.7	49.8	54.3	61.3	69.7	77.3	90.9	107.3	128.2	170°	137.4
44.6	45.3	46.0	46.7	49.8	54.3	60.6	67.2	76.6	90.9	108.0	172.5°	138.6
41.5	42.2	43.2	43.9	44.9	47.7	51.6	55.7	60.6	70.7	84.7	175°	140.5
38.7	39.4	39.7	40.1	40.8	41.5	42.8	43.9	46.3	52.3	62.0	177.5°	141.1
34.8	35.5	35.5	35.9	36.2	36.2	36.9	37.3	38.0	39.7	43.9	180°	140.8
31.7	32.0	32.4	32.7	32.7	32.7	32.4	32.7	32.4	32.4	34.1		
27.9	28.2	28.6	28.9	29.3	29.6	30.0	30.0	29.6	28.9	28.9		
23.7	23.7	24.4	24.7	25.1	26.1	26.8	26.1	26.1	25.8	25.8		
19.9	20.6	20.9	20.9	21.6	22.6	23.3	23.0	21.9	21.9	22.3		
15.3	15.7	16.0	16.4	16.7	17.8	18.8	19.2	18.5	18.8	18.8		
10.1	10.5	11.1	11.5	11.8	12.9	13.9	15.0	14.6	15.3	14.6		
4.5	5.2	5.6	5.6	6.6	7.7	9.1	10.1	11.5	11.8	10.8		
0.0	0.3	0.3	0.3	1.4	2.4	4.5	7.0	9.4	7.3	5.6		
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°	226.1	226.1
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	224.7	225.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	227.8	227.8
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	232.4	232.4
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	238.3	237.2
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	241.8	240.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	243.9	242.1
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	244.6	244.6
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	246.3	249.1
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	252.2	259.2
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	269.6	279.4
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	283.2	296.1
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	284.3	300.3
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	278.0	295.4
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	268.6	288.4
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	257.1	279.4
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	243.9	266.8
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	231.7	255.4
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	223.0	248.0
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	213.5	240.4
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	198.6	230.3
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	182.5	214.2
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	167.9	198.2
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	152.2	182.9
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	131.7	162.3
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	105.2	134.1
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	75.6	100.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	51.2	67.9
										70°	37.3	46.3
										72.5°	30.3	34.8
										75°	26.8	29.3
										77.5°	23.7	25.1
										80°	18.8	20.2
										82.5°	14.6	16.0
										85°	10.8	11.8
										87.5°	4.9	4.9
										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

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LED-E1-SLR-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	226.1	112.5°	21.2	21.2	21.2
225.4	225.7	225.7	226.4	226.8	227.5	227.8	227.8	227.8	115°	25.0	25.0	25.0
228.5	228.9	229.2	230.3	230.6	231.7	232.7	233.1	234.1	117.5°	29.5	29.5	29.5
232.4	233.4	233.8	234.5	235.1	236.9	238.3	239.0	240.0	120°	34.8	34.8	34.8
236.9	237.2	237.2	237.9	239.7	240.7	242.5	245.6	247.7	122.5°	40.9	40.9	40.9
240.0	239.0	239.7	240.4	242.1	244.6	247.3	251.9	256.1	125°	47.8	47.8	47.8
242.1	242.1	243.9	245.3	248.4	252.2	257.4	263.7	270.0	127.5°	55.3	55.3	55.3
245.9	247.0	250.8	253.6	259.2	264.8	271.4	280.1	289.5	130°	63.0	63.0	63.0
252.9	255.7	259.9	264.4	270.0	278.3	289.5	300.6	313.2	132.5°	70.5	70.5	70.5
264.1	270.3	277.3	282.9	289.5	301.3	313.5	327.5	343.1	135°	77.9	77.9	77.9
288.4	295.4	305.9	315.3	324.7	341.7	357.4	373.5	394.7	137.5°	85.3	85.3	85.3
309.7	320.8	337.2	350.8	363.7	384.2	401.7	428.1	450.8	140°	92.5	92.5	92.5
318.8	336.9	357.4	376.9	401.0	421.2	447.0	478.7	508.3	142.5°	99.2	99.2	99.2
316.7	338.6	364.4	390.9	419.4	451.8	481.4	517.0	555.6	145°	104.9	104.9	104.9
311.8	336.5	366.5	398.2	432.3	472.7	510.0	554.3	602.3	147.5°	110.1	110.1	110.1
305.9	334.8	368.2	405.5	448.3	496.4	544.5	602.3	662.2	150°	115.1	115.1	115.1
296.8	329.9	370.3	416.6	469.3	525.7	588.7	657.7	722.2	152.5°	119.7	119.7	119.7
286.7	324.0	372.8	432.0	498.2	568.2	641.0	711.4	784.9	155°	123.7	123.7	123.7
280.1	322.2	379.0	449.7	526.7	607.9	689.1	766.1	846.2	157.5°	127.0	127.0	127.0
276.3	323.3	385.6	463.0	548.0	637.5	723.6	812.0	896.0	160°	130.3	130.3	130.3
272.8	326.1	391.6	471.3	561.6	656.7	750.7	846.2	939.2	162.5°	133.5	133.5	133.5
263.7	325.0	393.7	473.8	568.5	669.2	769.5	870.2	969.2	165°	136.0	136.0	136.0
248.0	315.3	389.1	471.3	570.6	676.5	781.7	888.0	986.2	167.5°	137.1	137.1	137.1
227.1	295.4	373.1	460.9	563.3	673.0	785.9	899.5	996.0	170°	137.4	137.4	137.4
203.8	264.4	344.9	436.9	539.6	651.8	767.5	888.7	984.8	172.5°	138.6	138.6	138.6
171.7	225.7	306.6	396.1	496.4	607.9	712.8	845.1	943.0	175°	140.5	140.5	140.5
131.3	179.4	249.1	340.4	442.4	540.0	635.1	767.5	876.1	177.5°	141.1	141.1	141.1
90.6	127.9	186.4	266.2	361.6	451.5	546.2	669.9	796.7	180°	140.8	140.8	140.8
58.9	82.9	123.3	184.6	260.2	343.1	421.9	535.1	671.0				
41.8	53.0	75.2	113.9	171.4	235.5	299.9	376.6	506.2				
33.1	38.7	46.3	66.2	100.3	146.7	198.6	247.0	355.3				
26.8	29.3	33.1	40.8	59.2	84.7	117.1	155.7	220.9				
21.6	23.3	25.8	28.9	36.6	48.8	67.9	85.7	126.1				
17.4	19.5	20.2	20.6	23.7	27.9	35.9	48.4	72.1				
12.5	13.2	13.2	13.6	14.3	15.3	20.6	35.5	52.6				
4.9	4.2	4.5	3.5	3.8	4.2	6.6	7.7	12.2				
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°	226.1	226.1	226.1	226.1
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	228.9	228.9	228.5	228.5
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	234.8	235.8	235.1	236.2
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	242.5	243.2	243.9	245.3
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	250.5	252.9	255.4	256.4
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	259.9	264.4	269.3	271.7
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	276.3	283.2	288.8	292.6
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	297.9	307.3	316.7	323.3
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	325.4	339.0	352.2	360.6
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	360.2	376.2	390.9	406.9
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	408.3	430.6	456.4	470.3
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	476.9	507.2	525.3	556.3
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	542.4	579.7	623.6	666.4
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	597.8	652.5	716.9	782.1
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	656.0	725.3	799.9	883.5
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	725.7	797.4	877.9	969.5
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	789.1	870.9	969.5	1054.2
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	859.1	946.2	1057.3	1155.2
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	927.0	1017.9	1139.5	1246.8
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	986.6	1077.8	1207.4	1319.3
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	1034.3	1136.0	1262.5	1369.8
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1071.6	1179.2	1304.3	1404.6
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	1091.1	1199.8	1317.2	1419.3
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1093.9	1198.4	1306.4	1406.0
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	1067.4	1160.1	1263.2	1367.3
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1008.2	1080.6	1178.5	1281.6
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	932.2	979.6	1044.8	1145.8
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	857.7	889.0	923.2	997.7
								70°	743.1	769.2	803.3	849.7
								72.5°	577.9	612.4	636.8	681.8
								75°	434.4	454.3	489.5	530.9
								77.5°	305.5	325.7	365.8	413.2
								80°	205.2	219.1	243.9	284.6
								82.5°	125.8	141.8	162.7	197.9
								85°	84.3	109.4	136.2	162.7
								87.5°	35.5	59.9	75.9	79.8
								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: ENV-F01-LED-E1-SLR-8030-ULG

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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
226.1	226.1	226.1	226.1	226.1	226.1	226.1	112.5°	21.2	21.2	21.2	21.2	21.2
229.6	229.2	229.9	229.9	229.6	229.6	230.6	115°	25.0	25.0	25.0	25.0	25.0
236.9	237.2	237.9	237.2	238.6	236.9	237.2	117.5°	29.5	29.5	29.5	29.5	29.5
247.0	247.3	248.4	248.0	249.1	248.0	246.6	120°	34.8	34.8	34.8	34.8	34.8
259.9	260.6	260.6	262.3	264.1	262.0	259.5	122.5°	40.9	40.9	40.9	40.9	40.9
274.9	277.3	276.3	279.7	281.5	280.1	278.3	125°	47.8	47.8	47.8	47.8	47.8
295.4	300.3	299.6	306.2	308.7	307.6	308.0	127.5°	55.3	55.3	55.3	55.3	55.3
326.1	333.0	334.1	344.5	351.2	350.1	348.4	130°	63.0	63.0	63.0	63.0	63.0
361.6	379.7	383.9	393.0	400.3	403.1	402.7	132.5°	70.5	70.5	70.5	70.5	70.5
421.9	435.1	444.5	460.9	467.5	473.8	472.0	135°	77.9	77.9	77.9	77.9	77.9
490.5	502.7	523.6	544.5	551.1	557.0	564.7	137.5°	85.3	85.3	85.3	85.3	85.3
578.3	596.1	629.2	657.4	673.4	668.5	666.1	140°	92.5	92.5	92.5	92.5	92.5
697.1	741.7	766.1	789.1	799.5	784.2	764.7	142.5°	99.2	99.2	99.2	99.2	99.2
839.2	891.5	906.8	917.9	898.1	877.2	820.1	145°	104.9	104.9	104.9	104.9	104.9
943.4	994.6	1026.3	1038.1	995.6	933.6	856.3	147.5°	110.1	110.1	110.1	110.1	110.1
1037.4	1089.3	1103.3	1108.5	1051.4	971.2	896.0	150°	115.1	115.1	115.1	115.1	115.1
1137.4	1181.0	1189.0	1186.2	1110.2	1015.5	945.1	152.5°	119.7	119.7	119.7	119.7	119.7
1228.3	1272.9	1265.6	1253.4	1167.0	1071.2	993.5	155°	123.7	123.7	123.7	123.7	123.7
1314.7	1347.5	1334.2	1303.9	1220.7	1114.1	1031.5	157.5°	127.0	127.0	127.0	127.0	127.0
1372.6	1400.1	1385.8	1347.5	1257.6	1143.0	1052.4	160°	130.3	130.3	130.3	130.3	130.3
1416.5	1437.4	1429.0	1373.6	1279.2	1160.8	1061.8	162.5°	133.5	133.5	133.5	133.5	133.5
1438.4	1459.0	1454.1	1378.5	1282.0	1163.5	1057.3	165°	136.0	136.0	136.0	136.0	136.0
1446.4	1469.8	1452.7	1360.4	1263.5	1153.1	1041.6	167.5°	137.1	137.1	137.1	137.1	137.1
1439.8	1450.6	1425.5	1325.9	1225.9	1120.7	1019.3	170°	137.4	137.4	137.4	137.4	137.4
1415.4	1407.8	1373.3	1266.0	1172.6	1075.8	994.6	172.5°	138.6	138.6	138.6	138.6	138.6
1347.1	1327.3	1299.4	1196.6	1101.5	1004.7	956.3	175°	140.5	140.5	140.5	140.5	140.5
1206.4	1200.8	1187.9	1111.6	1017.2	924.9	893.9	177.5°	141.1	141.1	141.1	141.1	141.1
1025.9	1020.4	1022.1	970.6	902.3	812.4	813.1	180°	140.8	140.8	140.8	140.8	140.8
879.6	849.0	812.7	757.4	717.6	705.4	744.8						
707.9	691.2	661.6	613.1	568.2	583.9	672.0						
547.3	537.2	558.8	564.4	546.9	536.5	566.4						
448.3	470.3	504.8	548.7	552.9	537.5	480.7						
341.4	398.5	446.3	505.5	499.2	466.1	404.1						
239.0	294.4	339.3	389.1	387.4	357.1	326.4						
182.9	200.3	217.4	269.6	289.8	266.5	233.1						
86.4	87.1	104.9	129.2	138.7	158.2	156.1						
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						
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: P160176

CATALOG NUMBER: ENV-F01-LED-E1-SLR-8030-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°	226.1	226.1	226.1	226.1	226.1	226.1
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	231.0	230.6	230.6	230.6	231.0	230.6
29.5	29.5	29.5	29.5	29.5	29.5	5°	237.9	237.2	236.9	236.9	236.5	236.5
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	247.0	245.6	245.6	244.6	244.2	243.2
40.9	40.9	40.9	40.9	40.9	40.9	10°	259.2	257.8	257.4	254.7	254.7	252.2
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	277.0	277.0	277.0	273.5	272.8	268.6
55.3	55.3	55.3	55.3	55.3	55.3	15°	307.6	304.8	307.3	301.3	301.0	295.4
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	349.1	349.1	344.2	341.4	339.7	331.6
70.5	70.5	70.5	70.5	70.5	70.5	20°	404.1	404.5	396.1	388.4	384.9	375.9
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	474.1	467.5	457.1	451.5	445.9	430.9
85.3	85.3	85.3	85.3	85.3	85.3	25°	566.1	563.3	544.8	524.6	516.3	493.6
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	656.3	650.4	620.8	586.3	565.1	534.0
99.2	99.2	99.2	99.2	99.2	99.2	30°	735.8	696.7	661.6	620.1	587.7	549.0
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	777.2	728.1	676.9	642.7	602.0	559.1
110.1	110.1	110.1	110.1	110.1	110.1	35°	809.3	756.7	705.8	661.6	615.6	567.1
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	850.0	794.6	738.5	685.9	629.8	573.1
119.7	119.7	119.7	119.7	119.7	119.7	40°	895.3	831.9	762.6	698.8	635.8	571.0
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	932.9	856.3	774.8	703.0	633.7	562.3
127.0	127.0	127.0	127.0	127.0	127.0	45°	953.8	866.4	775.8	698.5	625.3	551.5
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	963.6	866.7	768.8	688.4	614.2	536.1
133.5	133.5	133.5	133.5	133.5	133.5	50°	962.5	858.0	755.6	674.8	601.6	520.1
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	952.1	843.7	740.3	664.0	590.8	506.5
137.1	137.1	137.1	137.1	137.1	137.1	55°	936.1	828.4	725.0	656.7	581.8	495.4
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	917.9	815.2	713.8	655.3	576.5	493.3
138.6	138.6	138.6	138.6	138.6	138.6	60°	909.9	816.6	720.8	645.5	573.8	497.8
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	904.7	829.8	735.1	652.1	578.3	517.0
141.1	141.1	141.1	141.1	141.1	141.1	65°	883.5	848.3	757.0	675.8	611.0	561.9
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	858.0	853.5	765.7	689.8	648.3	620.4
						70°	831.6	847.9	778.3	726.3	703.4	692.2
						72.5°	789.1	807.9	743.1	712.1	705.1	697.1
						75°	658.1	661.6	612.1	595.0	607.2	588.4
						77.5°	473.1	482.1	450.1	454.6	494.3	453.6
						80°	350.5	314.9	294.7	308.3	346.3	288.1
						82.5°	288.8	233.8	198.2	216.7	231.3	170.0
						85°	222.3	178.4	146.7	118.4	112.9	72.8
						87.5°	174.5	128.9	71.8	40.4	27.2	1.7
						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°
226.1	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
231.0	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
236.5	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
243.2	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
253.3	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
267.9	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
294.0	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
327.8	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
369.3	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
416.0	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
469.3	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
502.0	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
509.0	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
513.8	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
515.2	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
513.1	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
504.8	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
494.0	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
480.4	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
463.7	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
448.0	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
435.8	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
428.1	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
429.2	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
440.0	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
467.2	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
518.7	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
569.2	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
618.0								
586.0								
447.3								
321.9								
186.7								
116.7								
50.5								
1.7								
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)