

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: P160146

Luminaire Tested: **ENV-E02-LED-E1-SLR-8030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160146
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-E02-LED-E1-SLR-8030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

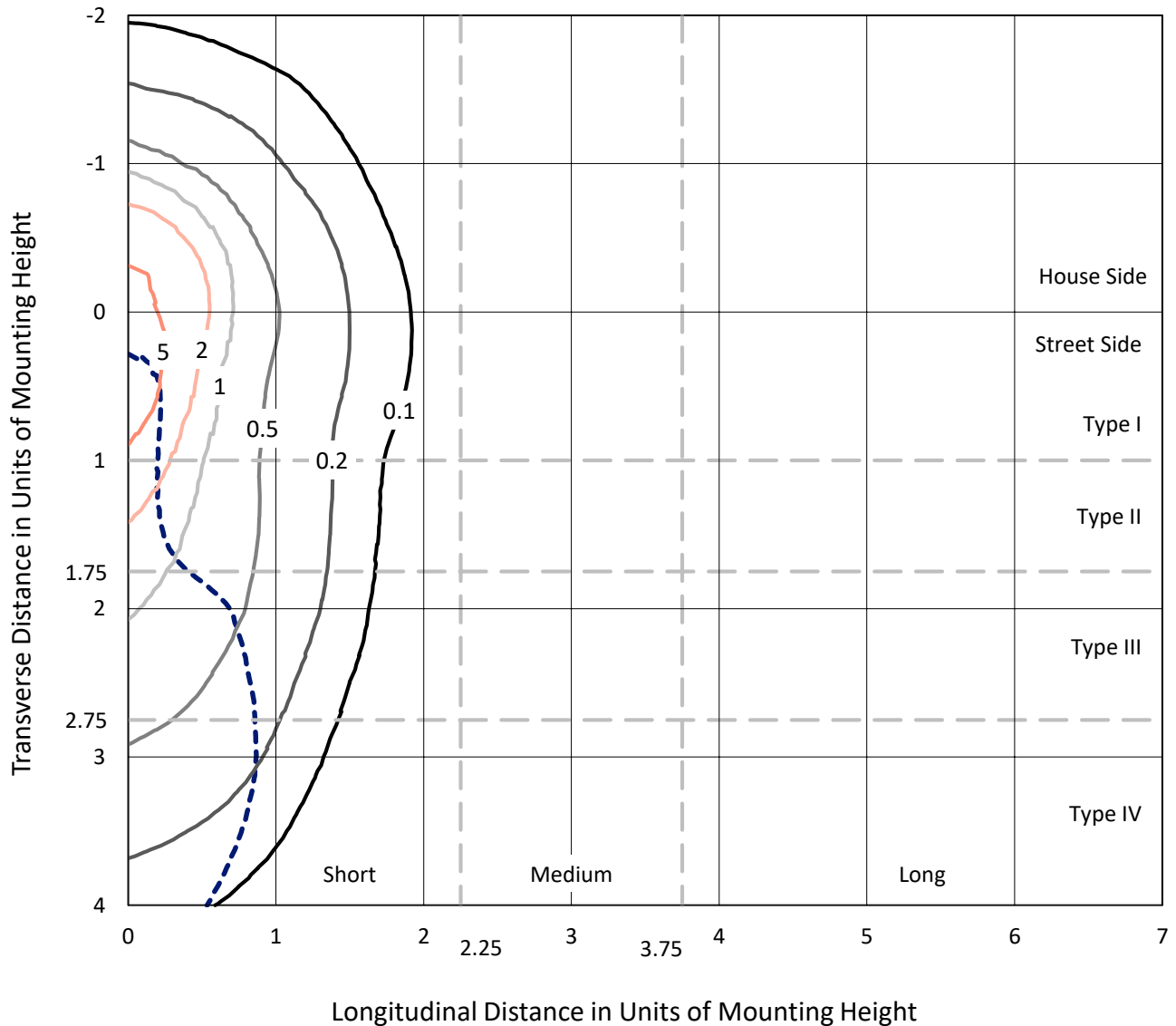
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

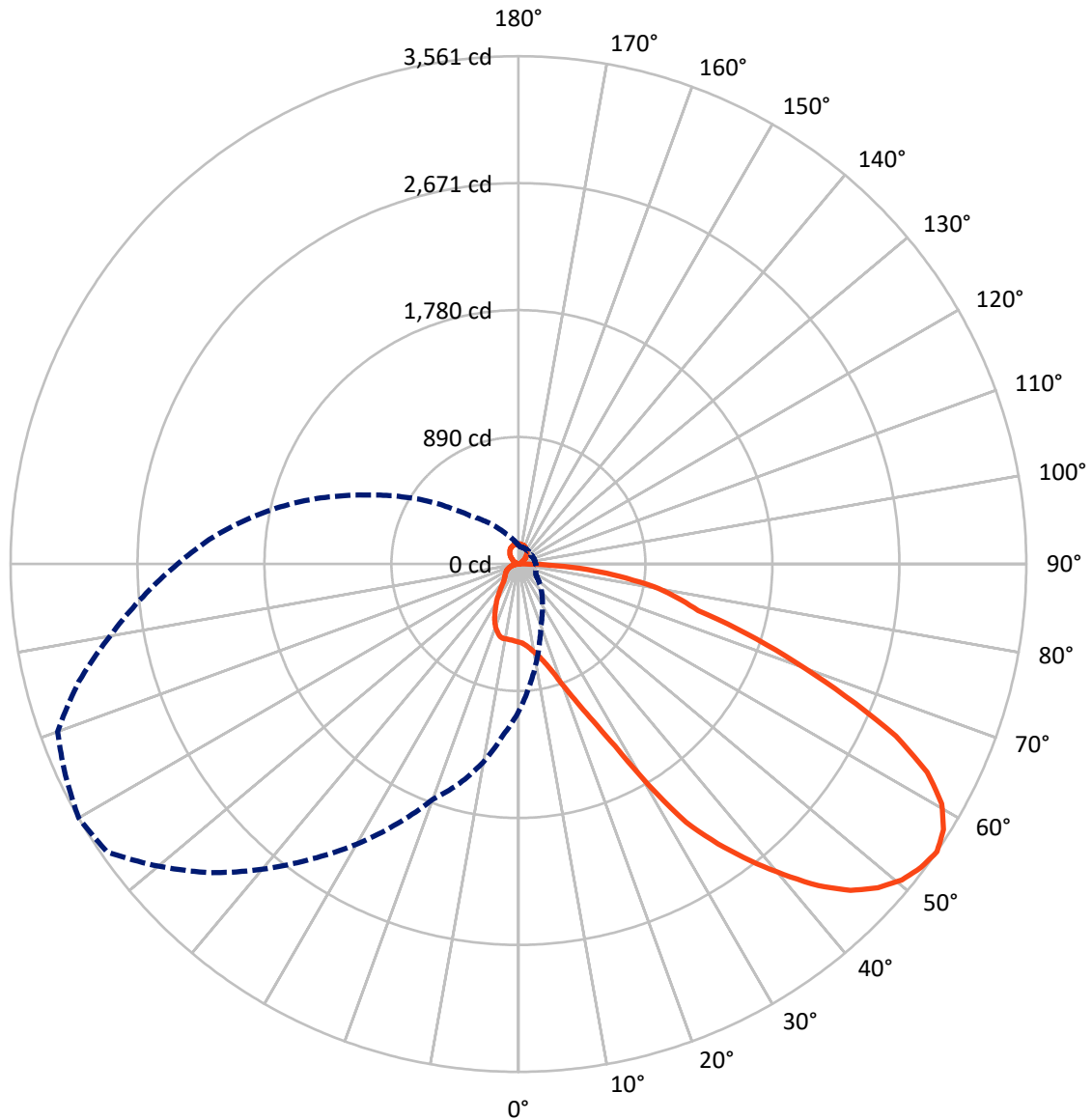
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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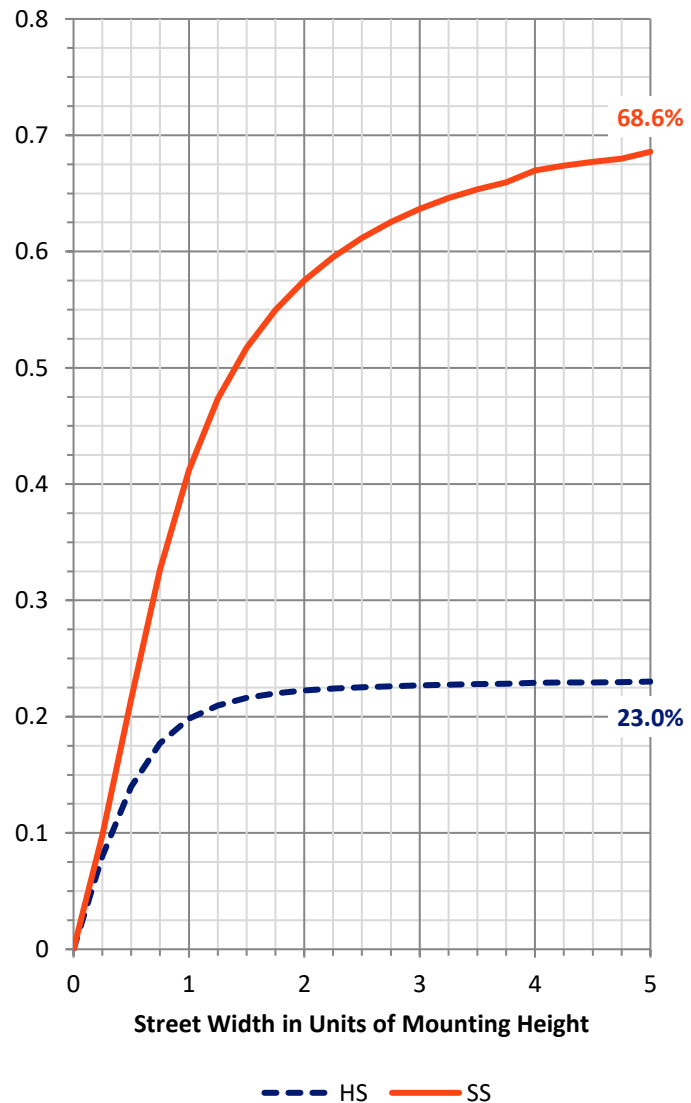
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.2	157.7	1184.9
	% Fixture	23.2	3.6	26.8
Street Side	Lumens	3082.4	157.7	3240.1
	% Fixture	69.7	3.6	73.2
Total	Lumens	4109.6	315.5	4425.0
	% Fixture	92.9	7.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.2
10°-20°	177.4	4.0
20°-30°	344.1	7.8
30°-40°	540.8	12.2
40°-50°	723.0	16.3
50°-60°	848.2	19.2
60°-70°	804.7	18.2
70°-80°	485.7	11.0
80°-90°	131.6	3.0
90°-100°	1.3	0.0
100°-110°	12.3	0.3
110°-120°	25.2	0.6
120°-130°	43.0	1.0
130°-140°	60.0	1.4
140°-150°	65.4	1.5
150°-160°	56.9	1.3
160°-170°	38.2	0.9
170°-180°	13.3	0.3
0°-90°	4109.6	92.9
0°-180°	4425.0	100.0



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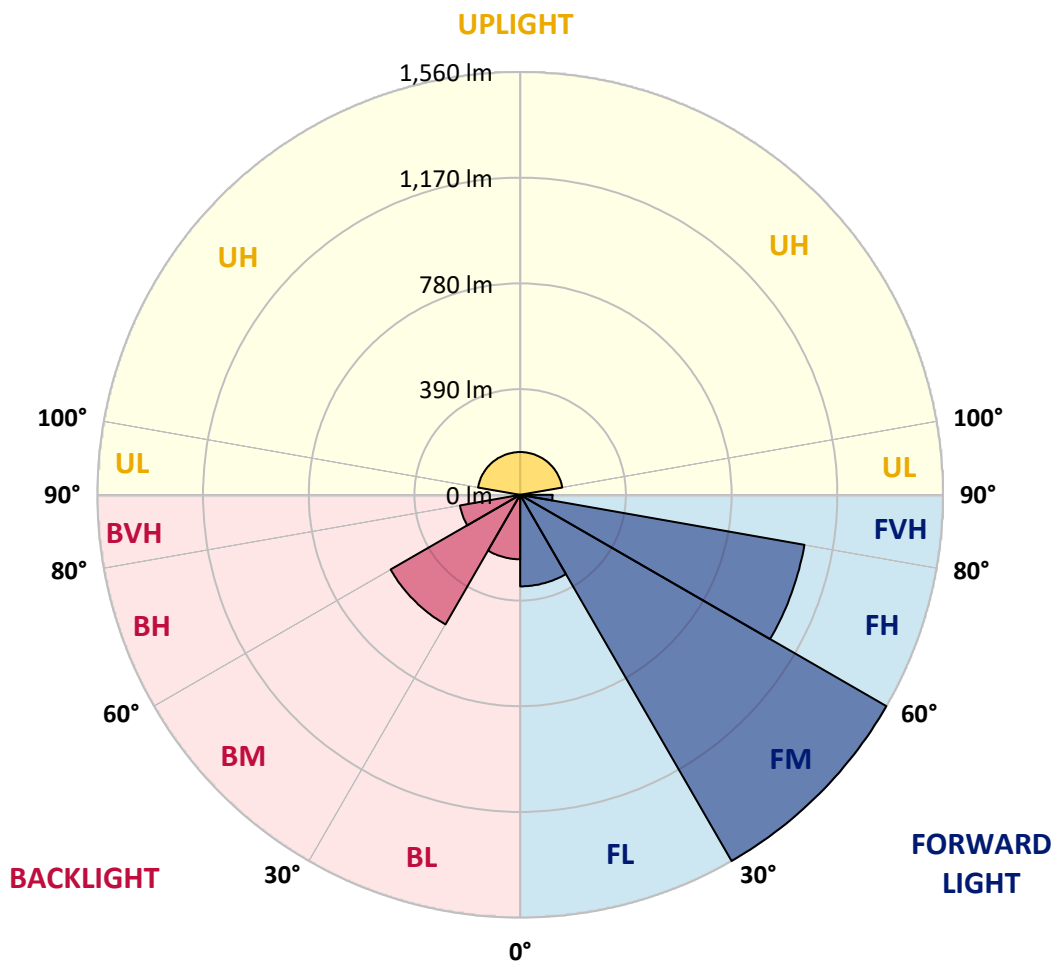
CATALOG NUMBER: ENV-E02-LED-E1-SLR-8030-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.7	7.6			
FM	(30°-60°)	1560.1	35.3			
FH	(60°-80°)	1064.9	24.1			G1/1800
FVH	(80°-90°)	119.7	2.7			G2/225
BL	(0°-30°)	237.7	5.4	B1/500		
BM	(30°-60°)	552.0	12.5	B1/1000		
BH	(60°-80°)	225.5	5.1	B1/500		G1/500
BVH	(80°-90°)	11.9	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	3.6		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	559.6	563.8	558.7	559.6	557.9	556.2	557.0	556.2	554.5	554.5	552.8
5°	573.1	573.9	570.5	569.7	568.0	565.5	566.3	563.8	562.1	560.4	557.0
7.5°	589.1	588.3	584.0	581.5	580.7	576.4	575.6	572.2	569.7	567.2	562.9
10°	613.6	606.8	601.8	597.5	595.9	590.8	586.6	584.9	580.7	574.8	571.4
12.5°	649.0	644.8	634.7	626.2	621.2	614.4	608.5	604.3	597.5	589.1	584.9
15°	712.3	698.8	687.0	674.3	664.2	653.2	638.9	627.9	616.1	601.8	590.8
17.5°	794.2	777.3	758.7	738.5	717.4	693.8	665.9	644.8	621.2	596.7	579.8
20°	894.6	863.4	837.2	798.4	759.6	722.5	678.6	641.4	607.7	575.6	551.1
22.5°	1007.7	960.5	907.3	848.2	785.8	728.4	666.8	616.1	567.2	527.5	499.6
25°	1136.9	1062.6	981.6	892.1	802.6	717.4	641.4	578.1	525.8	478.5	447.3
27.5°	1216.2	1114.9	1017.9	911.5	809.4	710.6	617.8	544.4	484.5	433.8	397.5
30°	1233.1	1130.9	1017.0	901.4	795.9	687.9	586.6	504.7	438.0	384.9	348.6
32.5°	1244.9	1126.7	1000.1	871.8	757.1	643.1	540.2	459.1	388.2	335.9	293.7
35°	1248.3	1110.7	968.1	825.4	704.7	588.3	485.3	400.1	338.4	287.0	249.0
37.5°	1243.2	1084.5	925.0	777.3	648.2	526.7	425.4	351.1	298.8	249.0	215.2
40°	1222.9	1051.6	886.2	730.9	590.8	465.0	374.7	310.6	265.9	227.9	201.7
42.5°	1196.8	1013.6	843.1	676.9	535.1	416.1	334.2	282.7	244.8	217.7	195.8
45°	1163.9	974.0	798.4	628.8	487.8	379.0	310.6	267.5	238.0	214.4	194.1
47.5°	1123.4	931.8	755.4	592.5	455.8	360.4	305.5	267.5	238.0	212.7	190.7
50°	1085.4	893.8	722.5	569.7	441.4	361.2	310.6	270.9	237.2	209.3	184.8
52.5°	1055.8	871.0	709.0	561.3	443.1	369.7	320.7	276.0	239.7	209.3	183.1
55°	1037.3	861.7	707.3	568.8	460.8	392.5	336.8	291.2	251.5	216.1	185.7
57.5°	1039.8	871.8	727.5	600.1	501.3	432.1	368.8	318.2	268.4	224.5	186.5
60°	1066.0	905.6	776.5	673.5	568.8	485.3	409.3	341.8	276.0	222.0	180.6
62.5°	1131.8	984.9	879.4	773.9	652.4	537.6	433.8	346.0	267.5	209.3	166.3
65°	1256.7	1127.6	1026.3	894.6	721.6	559.6	431.3	333.4	251.5	189.1	146.9
67.5°	1379.1	1242.4	1099.7	901.4	704.7	543.5	403.4	302.1	222.8	162.0	130.0
70°	1497.2	1320.0	1136.9	892.9	655.8	467.6	336.8	252.4	177.2	135.0	111.4
72.5°	1419.6	1215.3	1028.0	787.4	563.8	384.0	268.4	183.1	135.9	111.4	96.2
75°	1083.7	941.9	779.0	604.3	416.1	270.9	178.9	130.0	104.7	87.8	78.5
77.5°	779.8	674.3	541.0	396.7	259.9	171.3	121.5	92.8	77.6	65.8	60.8
80°	452.4	388.2	303.0	218.6	148.5	107.2	81.0	65.8	56.5	48.1	46.4
82.5°	282.7	226.2	160.4	108.0	76.0	59.1	47.3	40.5	33.8	29.5	25.3
85°	122.4	87.8	49.8	27.9	21.1	16.0	12.7	11.0	9.3	8.4	6.8
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.1	5.1	5.1	5.1	4.2
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-E02-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°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	552.8	551.1	550.3	550.3	548.6	548.6	546.9	547.8	546.9	545.2	544.4
5°	556.2	553.7	552.0	550.3	547.8	546.9	545.2	545.2	542.7	540.2	539.3
7.5°	560.4	557.0	554.5	551.1	547.8	546.1	542.7	541.0	538.5	535.9	535.1
10°	568.8	562.9	558.7	554.5	548.6	545.2	540.2	537.6	535.1	531.7	530.0
12.5°	578.1	570.5	564.6	554.5	548.6	542.7	537.6	532.6	527.5	524.1	523.3
15°	578.1	568.8	556.2	546.9	538.5	530.0	525.0	519.9	514.0	511.5	510.6
17.5°	563.8	547.8	535.9	525.8	518.2	511.5	506.4	503.9	498.8	493.7	492.0
20°	530.9	512.3	498.8	487.8	479.4	472.6	470.9	468.4	465.9	465.9	466.7
22.5°	476.9	456.6	444.8	433.0	423.7	420.3	421.2	423.7	424.5	423.7	429.6
25°	422.8	403.4	387.4	376.4	365.4	368.0	364.6	370.5	373.0	373.9	380.6
27.5°	370.5	349.4	332.5	323.2	318.2	314.8	312.3	319.9	321.6	327.5	333.4
30°	314.8	295.4	276.0	268.4	264.2	261.6	262.5	269.2	273.5	281.9	287.0
32.5°	263.3	239.7	225.3	215.2	211.0	210.2	211.0	216.1	221.1	232.1	239.7
35°	219.4	196.6	184.8	178.9	173.0	170.5	173.0	174.7	176.4	185.7	195.0
37.5°	194.1	178.1	168.8	162.9	158.7	156.1	156.1	155.3	156.1	157.8	162.0
40°	183.1	171.3	162.9	157.0	153.6	151.9	151.1	150.2	149.4	149.4	149.4
42.5°	178.9	165.4	157.0	151.9	150.2	150.2	150.2	149.4	147.7	146.0	145.2
45°	175.6	161.2	151.9	147.7	147.7	147.7	148.5	147.7	146.0	143.5	140.9
47.5°	169.6	155.3	146.9	143.5	143.5	143.5	144.3	143.5	141.8	140.1	137.6
50°	162.9	147.7	139.3	136.7	135.9	135.9	135.0	134.2	133.4	131.7	129.1
52.5°	158.7	142.6	135.0	133.4	131.7	130.8	129.1	128.3	126.6	125.8	123.2
55°	157.8	139.3	132.5	130.8	129.1	126.6	123.2	121.5	118.2	117.3	115.6
57.5°	155.3	135.9	128.3	124.1	119.8	117.3	113.9	112.3	110.6	108.9	107.2
60°	146.9	125.8	116.5	113.9	111.4	110.6	108.9	107.2	104.7	102.1	98.7
62.5°	130.8	113.1	107.2	106.3	105.5	103.8	102.1	99.6	97.9	94.5	91.2
65°	118.2	106.3	103.0	101.3	100.4	97.9	96.2	94.5	92.0	89.5	86.1
67.5°	107.2	98.7	97.1	94.5	93.7	92.0	89.5	87.8	85.2	82.7	79.3
70°	97.1	90.3	89.5	87.8	86.1	85.2	81.9	79.3	78.5	75.1	72.6
72.5°	86.1	81.9	80.2	78.5	76.8	76.0	74.3	72.6	70.9	67.5	64.1
75°	71.7	70.1	69.2	67.5	66.7	65.0	62.5	59.9	59.1	56.5	54.0
77.5°	57.4	55.7	55.7	54.0	51.5	49.0	46.4	43.0	43.0	43.0	41.4
80°	40.5	38.8	36.3	35.4	33.8	32.1	29.5	27.9	26.2	26.2	26.2
82.5°	23.6	22.8	21.1	18.6	16.9	16.0	13.5	11.8	11.0	9.3	9.3
85°	5.1	5.1	3.4	3.4	2.5	2.5	2.5	1.7	1.7	0.8	0.8
87.5°	4.2	4.2	4.2	3.4	3.4	3.4	2.5	2.5	2.5	1.7	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



REPORT NUMBER: P160146

CATALOG NUMBER: ENV-E02-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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8
2.5°	544.4	543.5	541.8	538.5	537.6	536.8	537.6	537.6	536.8	537.6	538.5
5°	539.3	538.5	535.9	534.2	532.6	532.6	537.6	537.6	535.1	535.9	539.3
7.5°	535.1	535.1	533.4	532.6	533.4	535.9	540.2	543.5	542.7	547.8	549.4
10°	530.0	530.9	531.7	535.1	540.2	544.4	551.1	557.0	558.7	562.9	565.5
12.5°	525.0	528.3	532.6	539.3	546.1	552.8	560.4	567.2	568.0	572.2	575.6
15°	512.3	517.4	523.3	530.9	541.0	548.6	559.6	564.6	566.3	568.8	573.1
17.5°	492.9	495.4	499.6	508.1	519.1	529.2	541.8	550.3	555.3	558.7	560.4
20°	466.7	471.8	474.3	481.9	487.8	495.4	512.3	523.3	533.4	538.5	543.5
22.5°	430.4	436.3	442.3	449.8	453.2	458.3	474.3	491.2	506.4	516.5	522.4
25°	384.9	391.6	400.1	409.3	413.6	418.6	437.2	454.1	472.6	490.4	498.8
27.5°	339.3	347.7	356.2	367.1	373.9	379.8	395.8	411.9	431.3	448.2	456.6
30°	295.4	307.2	314.8	327.5	333.4	339.3	353.6	371.4	384.9	404.3	415.2
32.5°	249.8	258.3	272.6	287.0	293.7	299.6	313.1	328.3	340.1	359.5	375.6
35°	208.5	216.1	231.3	245.6	249.8	259.1	272.6	286.1	297.1	314.8	330.0
37.5°	169.6	182.3	194.1	205.1	214.4	221.1	233.8	245.6	251.5	268.4	284.4
40°	151.1	157.0	165.4	175.6	181.5	188.2	197.5	207.6	214.4	226.2	239.7
42.5°	144.3	144.3	146.9	151.9	159.5	162.9	171.3	176.4	185.7	190.7	202.6
45°	139.3	137.6	138.4	138.4	140.9	143.5	150.2	155.3	161.2	165.4	173.0
47.5°	135.0	131.7	130.8	129.1	128.3	130.0	135.0	139.3	141.8	145.2	147.7
50°	125.8	123.2	120.7	119.0	118.2	119.8	124.1	127.4	128.3	130.0	131.7
52.5°	120.7	117.3	114.8	112.3	112.3	113.9	117.3	119.8	120.7	121.5	123.2
55°	113.9	112.3	110.6	108.0	107.2	109.7	112.3	114.8	116.5	116.5	118.2
57.5°	105.5	103.8	105.5	104.7	103.8	105.5	108.9	111.4	112.3	112.3	113.1
60°	97.1	96.2	96.2	97.9	99.6	102.1	104.7	108.0	107.2	105.5	106.3
62.5°	89.5	88.6	89.5	92.0	94.5	97.1	100.4	103.0	100.4	98.7	98.7
65°	84.4	83.6	84.4	85.2	86.1	88.6	92.8	93.7	92.0	92.0	92.0
67.5°	77.6	76.8	76.0	76.8	77.6	78.5	81.9	82.7	82.7	82.7	82.7
70°	69.2	68.4	67.5	67.5	67.5	68.4	69.2	70.9	72.6	74.3	75.1
72.5°	59.9	58.2	58.2	58.2	56.5	57.4	58.2	61.6	63.3	65.0	66.7
75°	50.6	49.0	49.0	47.3	48.1	49.0	49.0	50.6	52.3	54.9	56.5
77.5°	39.7	39.7	39.7	38.8	38.8	39.7	40.5	40.5	42.2	44.7	47.3
80°	25.3	25.3	27.0	27.9	28.7	29.5	31.2	32.1	32.9	35.4	36.3
82.5°	9.3	10.1	11.0	11.0	13.5	16.9	17.7	20.3	21.9	24.5	24.5
85°	0.8	0.8	0.8	0.8	0.8	1.7	2.5	3.4	5.1	7.6	9.3
87.5°	1.7	0.8	0.8	0.8	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°
547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	112.5°	21.2
539.3	541.8	541.0	540.2	541.0	542.7	541.8	542.7	543.5	545.2	544.4	115°	25.0
540.2	542.7	543.5	543.5	545.2	547.8	547.8	548.6	549.4	551.1	551.1	117.5°	29.5
552.0	557.9	557.9	558.7	561.3	563.8	564.6	565.5	564.6	564.6	564.6	120°	34.8
569.7	576.4	577.3	581.5	584.9	584.0	584.0	584.9	583.2	581.5	579.0	122.5°	40.9
579.0	584.9	586.6	590.8	595.9	596.7	599.2	600.9	599.2	595.0	590.8	125°	47.8
576.4	581.5	584.9	589.9	595.9	599.2	604.3	606.0	605.1	600.1	595.0	127.5°	55.3
565.5	571.4	575.6	582.4	589.1	594.2	599.2	601.8	601.8	597.5	594.2	130°	63.0
547.8	554.5	560.4	568.0	576.4	582.4	588.3	589.9	589.9	588.3	590.8	132.5°	70.5
529.2	536.8	543.5	551.1	562.1	568.0	574.8	579.8	582.4	585.7	596.7	135°	77.9
505.6	508.9	517.4	525.8	541.0	551.1	565.5	579.0	592.5	607.7	629.6	137.5°	85.3
464.2	470.1	480.2	492.0	507.2	525.8	552.0	578.1	602.6	625.4	652.4	140°	92.5
429.6	440.6	451.5	465.0	481.1	498.8	529.2	562.9	592.5	619.5	649.0	142.5°	99.2
392.5	406.0	420.3	438.0	453.2	469.3	494.6	531.7	567.2	597.5	628.8	145°	104.9
349.4	363.8	378.1	396.7	412.7	433.0	455.8	492.0	532.6	567.2	604.3	147.5°	110.1
303.0	315.7	331.7	348.6	367.1	390.8	415.2	449.0	491.2	528.3	570.5	150°	115.1
259.1	272.6	288.6	307.2	325.8	351.1	379.0	411.0	449.8	489.5	534.2	152.5°	119.7
217.7	235.5	252.4	270.9	290.3	314.0	343.5	378.1	416.9	459.1	506.4	155°	123.7
183.1	196.6	214.4	229.6	250.7	273.5	303.8	342.7	387.4	432.1	481.9	157.5°	127.0
152.8	161.2	176.4	195.0	214.4	238.0	263.3	302.1	347.7	396.7	452.4	160°	130.3
134.2	138.4	149.4	166.3	184.8	208.5	230.4	264.2	309.7	357.9	415.2	162.5°	133.5
124.9	126.6	132.5	145.2	162.9	184.0	207.6	236.3	276.8	324.1	379.0	165°	136.0
119.8	120.7	122.4	131.7	146.9	166.3	189.9	212.7	249.0	293.7	346.9	167.5°	137.1
113.9	114.8	115.6	120.7	131.7	148.5	168.8	187.4	220.3	259.9	310.6	170°	137.4
108.0	109.7	111.4	113.1	120.7	131.7	146.9	162.9	185.7	220.3	261.6	172.5°	138.6
100.4	102.1	104.7	106.3	108.9	115.6	124.9	135.0	146.9	171.3	205.1	175°	140.5
93.7	95.4	96.2	97.1	98.7	100.4	103.8	106.3	112.3	126.6	150.2	177.5°	141.1
84.4	86.1	86.1	86.9	87.8	87.8	89.5	90.3	92.0	96.2	106.3	180°	140.8
76.8	77.6	78.5	79.3	79.3	79.3	78.5	79.3	78.5	78.5	82.7		
67.5	68.4	69.2	70.1	70.9	71.7	72.6	72.6	71.7	70.1	70.1		
57.4	57.4	59.1	59.9	60.8	63.3	65.0	63.3	63.3	62.5	62.5		
48.1	49.8	50.6	50.6	52.3	54.9	56.5	55.7	53.2	53.2	54.0		
37.1	38.0	38.8	39.7	40.5	43.0	45.6	46.4	44.7	45.6	45.6		
24.5	25.3	27.0	27.9	28.7	31.2	33.8	36.3	35.4	37.1	35.4		
11.0	12.7	13.5	13.5	16.0	18.6	21.9	24.5	27.9	28.7	26.2		
0.0	0.8	0.8	0.8	3.4	5.9	11.0	16.9	22.8	17.7	13.5		
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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 CATALOG NUMBER: ENV-E02-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°	547.8	547.8
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	544.4	545.2
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	552.0	552.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	562.9	562.9
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	577.3	574.8
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	585.7	581.5
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	590.8	586.6
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	592.5	592.5
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	596.7	603.5
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	611.0	627.9
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	653.2	676.9
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	686.2	717.4
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	688.7	727.5
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	673.5	715.7
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	650.7	698.8
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	622.9	676.9
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	590.8	646.5
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	561.3	618.6
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	540.2	600.9
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	517.4	582.4
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	481.1	557.9
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	442.3	519.1
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	406.8	480.2
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	368.8	443.1
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	319.0	393.3
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	254.9	324.9
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	183.1	242.2
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	124.1	164.6
										70°	90.3	112.3
										72.5°	73.4	84.4
										75°	65.0	70.9
										77.5°	57.4	60.8
										80°	45.6	49.0
										82.5°	35.4	38.8
										85°	26.2	28.7
										87.5°	11.8	11.8
										90°	0.1	0.1
										92.5°	0.1	0.1
										95°	0.5	0.5
										97.5°	1.5	1.5
										100°	5.0	5.0
										102.5°	8.8	8.8
										105°	11.8	11.8
										107.5°	14.7	14.7
										110°	17.8	17.8



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LED-E1-SLR-8030-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	547.8	112.5°	21.2	21.2	21.2
546.1	546.9	546.9	548.6	549.4	551.1	552.0	552.0	552.0	115°	25.0	25.0	25.0
553.7	554.5	555.3	557.9	558.7	561.3	563.8	564.6	567.2	117.5°	29.5	29.5	29.5
562.9	565.5	566.3	568.0	569.7	573.9	577.3	579.0	581.5	120°	34.8	34.8	34.8
573.9	574.8	574.8	576.4	580.7	583.2	587.4	595.0	600.1	122.5°	40.9	40.9	40.9
581.5	579.0	580.7	582.4	586.6	592.5	599.2	610.2	620.3	125°	47.8	47.8	47.8
586.6	586.6	590.8	594.2	601.8	611.0	623.7	638.9	654.1	127.5°	55.3	55.3	55.3
595.9	598.4	607.7	614.4	627.9	641.4	657.5	678.6	701.4	130°	63.0	63.0	63.0
612.7	619.5	629.6	640.6	654.1	674.3	701.4	728.4	758.7	132.5°	70.5	70.5	70.5
639.7	654.9	671.8	685.3	701.4	730.1	759.6	793.4	831.3	135°	77.9	77.9	77.9
698.8	715.7	741.0	763.8	786.6	828.0	865.9	904.8	956.2	137.5°	85.3	85.3	85.3
750.3	777.3	817.0	849.9	881.1	930.9	973.1	1037.3	1092.1	140°	92.5	92.5	92.5
772.3	816.1	865.9	913.2	971.4	1020.4	1082.8	1159.6	1231.4	142.5°	99.2	99.2	99.2
767.2	820.4	882.8	947.0	1016.2	1094.7	1166.4	1252.5	1346.2	145°	104.9	104.9	104.9
755.4	815.3	887.9	964.7	1047.4	1145.3	1235.6	1342.8	1459.3	147.5°	110.1	110.1	110.1
741.0	811.1	892.1	982.4	1086.2	1202.7	1319.2	1459.3	1604.4	150°	115.1	115.1	115.1
719.1	799.3	897.2	1009.4	1136.9	1273.6	1426.3	1593.5	1749.6	152.5°	119.7	119.7	119.7
694.6	784.9	903.1	1046.5	1206.9	1376.5	1552.9	1723.4	1901.5	155°	123.7	123.7	123.7
678.6	780.7	918.3	1089.6	1276.1	1472.8	1669.4	1855.9	2050.1	157.5°	127.0	127.0	127.0
669.3	783.2	934.3	1121.7	1327.6	1544.5	1753.0	1967.3	2170.7	160°	130.3	130.3	130.3
660.8	790.0	948.6	1141.9	1360.5	1590.9	1818.8	2050.1	2275.4	162.5°	133.5	133.5	133.5
638.9	787.4	953.7	1147.8	1377.4	1621.3	1864.4	2108.3	2348.0	165°	136.0	136.0	136.0
600.9	763.8	942.7	1141.9	1382.5	1639.0	1893.9	2151.3	2389.3	167.5°	137.1	137.1	137.1
550.3	715.7	903.9	1116.6	1364.7	1630.6	1904.0	2179.2	2413.0	170°	137.4	137.4	137.4
493.7	640.6	835.6	1058.4	1307.3	1579.1	1859.3	2153.0	2386.0	172.5°	138.6	138.6	138.6
416.1	546.9	742.7	959.6	1202.7	1472.8	1726.8	2047.5	2284.7	175°	140.5	140.5	140.5
318.2	434.7	603.5	824.6	1071.9	1308.2	1538.6	1859.3	2122.6	177.5°	141.1	141.1	141.1
219.4	309.7	451.5	644.8	876.1	1093.8	1323.4	1623.0	1930.2	180°	140.8	140.8	140.8
142.6	200.9	298.8	447.3	630.5	831.3	1022.1	1296.4	1625.5				
101.3	128.3	182.3	276.0	415.2	570.5	726.7	912.4	1226.3				
80.2	93.7	112.3	160.4	243.1	355.3	481.1	598.4	860.9				
65.0	70.9	80.2	98.7	143.5	205.1	283.6	377.3	535.1				
52.3	56.5	62.5	70.1	88.6	118.2	164.6	207.6	305.5				
42.2	47.3	49.0	49.8	57.4	67.5	86.9	117.3	174.7				
30.4	32.1	32.1	32.9	34.6	37.1	49.8	86.1	127.4				
11.8	10.1	11.0	8.4	9.3	10.1	16.0	18.6	29.5				
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°	547.8	547.8	547.8	547.8
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	554.5	554.5	553.7	553.7
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	568.8	571.4	569.7	572.2
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	587.4	589.1	590.8	594.2
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	606.8	612.7	618.6	621.2
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	629.6	640.6	652.4	658.3
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	669.3	686.2	699.7	709.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	721.6	744.4	767.2	783.2
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	788.3	821.2	853.3	873.5
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	872.7	911.5	947.0	985.8
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	989.2	1043.2	1105.6	1139.4
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1155.4	1228.9	1272.7	1347.9
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1314.1	1404.4	1510.7	1614.6
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1448.3	1580.8	1736.9	1894.8
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1589.2	1757.2	1937.8	2140.4
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1758.0	1931.9	2126.9	2348.8
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	1911.6	2110.0	2348.8	2553.9
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2081.3	2292.3	2561.5	2798.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	2245.9	2466.1	2760.7	3020.6
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2390.2	2611.3	2925.3	3196.2
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	2505.8	2752.3	3058.6	3318.6
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2596.1	2856.9	3159.9	3403.0
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	2643.4	2906.7	3191.1	3438.4
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2650.1	2903.3	3165.0	3406.3
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	2586.0	2810.5	3060.3	3312.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2442.5	2618.1	2855.2	3105.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	2258.5	2373.3	2531.1	2775.9
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2077.9	2153.9	2236.6	2417.2
								70°	1800.2	1863.5	1946.2	2058.5
								72.5°	1400.2	1483.7	1542.8	1651.7
								75°	1052.5	1100.6	1185.8	1286.2
								77.5°	740.2	789.1	886.2	1001.0
								80°	497.1	530.9	590.8	689.5
								82.5°	304.7	343.5	394.1	479.4
								85°	204.2	265.0	330.0	394.1
								87.5°	86.1	145.2	184.0	193.3
								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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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
547.8	547.8	547.8	547.8	547.8	547.8	547.8	112.5°	21.2	21.2	21.2	21.2	21.2
556.2	555.3	557.0	557.0	556.2	556.2	558.7	115°	25.0	25.0	25.0	25.0	25.0
573.9	574.8	576.4	574.8	578.1	573.9	574.8	117.5°	29.5	29.5	29.5	29.5	29.5
598.4	599.2	601.8	600.9	603.5	600.9	597.5	120°	34.8	34.8	34.8	34.8	34.8
629.6	631.3	631.3	635.5	639.7	634.7	628.8	122.5°	40.9	40.9	40.9	40.9	40.9
665.9	671.8	669.3	677.7	681.9	678.6	674.3	125°	47.8	47.8	47.8	47.8	47.8
715.7	727.5	725.8	741.9	747.8	745.2	746.1	127.5°	55.3	55.3	55.3	55.3	55.3
790.0	806.9	809.4	834.7	850.7	848.2	844.0	130°	63.0	63.0	63.0	63.0	63.0
876.1	920.0	930.1	952.0	969.7	976.5	975.7	132.5°	70.5	70.5	70.5	70.5	70.5
1022.1	1054.1	1076.9	1116.6	1132.6	1147.8	1143.6	135°	77.9	77.9	77.9	77.9	77.9
1188.3	1217.9	1268.5	1319.2	1335.2	1349.5	1368.1	137.5°	85.3	85.3	85.3	85.3	85.3
1401.0	1444.1	1524.2	1592.6	1631.4	1619.6	1613.7	140°	92.5	92.5	92.5	92.5	92.5
1688.8	1796.9	1855.9	1911.6	1937.0	1899.8	1852.6	142.5°	99.2	99.2	99.2	99.2	99.2
2033.2	2159.8	2196.9	2223.9	2175.8	2125.2	1986.8	145°	104.9	104.9	104.9	104.9	104.9
2285.5	2409.6	2486.4	2515.1	2412.1	2261.9	2074.5	147.5°	110.1	110.1	110.1	110.1	110.1
2513.4	2639.2	2672.9	2685.6	2547.2	2353.0	2170.7	150°	115.1	115.1	115.1	115.1	115.1
2755.6	2861.1	2880.5	2873.8	2689.8	2460.2	2289.7	152.5°	119.7	119.7	119.7	119.7	119.7
2975.9	3083.9	3066.2	3036.7	2827.4	2595.3	2407.1	155°	123.7	123.7	123.7	123.7	123.7
3185.2	3264.6	3232.5	3159.1	2957.3	2699.1	2499.1	157.5°	127.0	127.0	127.0	127.0	127.0
3325.3	3392.0	3357.4	3264.6	3046.8	2769.1	2549.7	160°	130.3	130.3	130.3	130.3	130.3
3431.7	3482.3	3462.1	3327.9	3099.1	2812.2	2572.5	162.5°	133.5	133.5	133.5	133.5	133.5
3484.8	3534.6	3522.8	3339.7	3105.9	2818.9	2561.5	165°	136.0	136.0	136.0	136.0	136.0
3504.3	3560.8	3519.4	3295.8	3061.2	2793.6	2523.5	167.5°	137.1	137.1	137.1	137.1	137.1
3488.2	3514.4	3453.6	3212.2	2970.0	2715.1	2469.5	170°	137.4	137.4	137.4	137.4	137.4
3429.1	3410.6	3327.0	3067.1	2840.9	2606.2	2409.6	172.5°	138.6	138.6	138.6	138.6	138.6
3263.7	3215.6	3148.1	2899.1	2668.7	2434.1	2316.8	175°	140.5	140.5	140.5	140.5	140.5
2922.7	2909.2	2878.0	2693.2	2464.5	2240.8	2165.7	177.5°	141.1	141.1	141.1	141.1	141.1
2485.6	2472.0	2476.3	2351.4	2185.9	1968.2	1969.9	180°	140.8	140.8	140.8	140.8	140.8
2131.1	2056.8	1969.0	1834.8	1738.6	1709.1	1804.5						
1715.0	1674.5	1602.7	1485.4	1376.5	1414.5	1628.1						
1325.9	1301.4	1353.8	1367.3	1325.1	1299.7	1372.3						
1086.2	1139.4	1222.9	1329.3	1339.4	1302.3	1164.7						
827.1	965.5	1081.2	1224.6	1209.4	1129.3	979.0						
579.0	713.2	822.0	942.7	938.5	865.1	790.8						
443.1	485.3	526.7	653.2	702.2	645.7	564.6						
209.3	211.0	254.0	313.1	335.9	383.2	378.1						
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: P160146

CATALOG NUMBER: ENV-E02-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°	547.8	547.8	547.8	547.8	547.8	547.8
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	559.6	558.7	558.7	558.7	559.6	558.7
29.5	29.5	29.5	29.5	29.5	29.5	5°	576.4	574.8	573.9	573.9	573.1	573.1
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	598.4	595.0	595.0	592.5	591.6	589.1
40.9	40.9	40.9	40.9	40.9	40.9	10°	627.9	624.6	623.7	617.0	617.0	611.0
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	671.0	671.0	671.0	662.5	660.8	650.7
55.3	55.3	55.3	55.3	55.3	55.3	15°	745.2	738.5	744.4	730.1	729.2	715.7
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	845.7	845.7	833.9	827.1	822.9	803.5
70.5	70.5	70.5	70.5	70.5	70.5	20°	979.0	979.9	959.6	941.0	932.6	910.7
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1148.7	1132.6	1107.3	1093.8	1080.3	1044.0
85.3	85.3	85.3	85.3	85.3	85.3	25°	1371.5	1364.7	1320.0	1271.1	1250.8	1195.9
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1590.1	1575.7	1504.0	1420.4	1369.0	1293.8
99.2	99.2	99.2	99.2	99.2	99.2	30°	1782.5	1688.0	1602.7	1502.3	1423.8	1330.1
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1882.9	1763.9	1639.9	1557.2	1458.4	1354.6
110.1	110.1	110.1	110.1	110.1	110.1	35°	1960.6	1833.1	1709.9	1602.7	1491.3	1374.0
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2059.3	1925.1	1789.3	1661.8	1525.9	1388.4
119.7	119.7	119.7	119.7	119.7	119.7	40°	2169.1	2015.5	1847.5	1693.0	1540.3	1383.3
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2260.2	2074.5	1877.0	1703.2	1535.2	1362.2
127.0	127.0	127.0	127.0	127.0	127.0	45°	2310.8	2099.0	1879.6	1692.2	1515.0	1336.0
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2334.5	2099.8	1862.7	1667.7	1488.0	1298.9
133.5	133.5	133.5	133.5	133.5	133.5	50°	2331.9	2078.7	1830.6	1634.8	1457.6	1260.1
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2306.6	2044.1	1793.5	1608.6	1431.4	1227.2
137.1	137.1	137.1	137.1	137.1	137.1	55°	2267.8	2007.0	1756.3	1590.9	1409.5	1200.2
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2223.9	1974.9	1729.3	1587.5	1396.8	1195.1
138.6	138.6	138.6	138.6	138.6	138.6	60°	2204.5	1978.3	1746.2	1563.9	1390.1	1206.1
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2191.8	2010.4	1780.8	1580.0	1401.0	1252.5
141.1	141.1	141.1	141.1	141.1	141.1	65°	2140.4	2055.1	1834.0	1637.3	1480.4	1361.4
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2078.7	2067.8	1855.1	1671.1	1570.7	1503.1
						70°	2014.6	2054.3	1885.5	1759.7	1704.0	1677.0
						72.5°	1911.6	1957.2	1800.2	1725.1	1708.2	1688.8
						75°	1594.3	1602.7	1482.9	1441.5	1471.1	1425.5
						77.5°	1146.1	1168.1	1090.4	1101.4	1197.6	1098.9
						80°	849.1	763.0	714.0	746.9	838.9	698.0
						82.5°	699.7	566.3	480.2	525.0	560.4	411.9
						85°	538.5	432.1	355.3	287.0	273.5	176.4
						87.5°	422.8	312.3	173.9	97.9	65.8	4.2
						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: P160146

CATALOG NUMBER: ENV-E02-LED-E1-SLR-8030-ULG

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
547.8	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
559.6	115°	25.0	25.0	25.0	25.0	25.0	25.0
573.1	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
589.1	120°	34.8	34.8	34.8	34.8	34.8	34.8
613.6	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
649.0	125°	47.8	47.8	47.8	47.8	47.8	47.8
712.3	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
794.2	130°	63.0	63.0	63.0	63.0	63.0	63.0
894.6	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
1007.7	135°	77.9	77.9	77.9	77.9	77.9	77.9
1136.9	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
1216.2	140°	92.5	92.5	92.5	92.5	92.5	92.5
1233.1	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
1244.9	145°	104.9	104.9	104.9	104.9	104.9	104.9
1248.3	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
1243.2	150°	115.1	115.1	115.1	115.1	115.1	115.1
1222.9	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
1196.8	155°	123.7	123.7	123.7	123.7	123.7	123.7
1163.9	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
1123.4	160°	130.3	130.3	130.3	130.3	130.3	130.3
1085.4	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
1055.8	165°	136.0	136.0	136.0	136.0	136.0	136.0
1037.3	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
1039.8	170°	137.4	137.4	137.4	137.4	137.4	137.4
1066.0	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
1131.8	175°	140.5	140.5	140.5	140.5	140.5	140.5
1256.7	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
1379.1	180°	140.8	140.8	140.8	140.8	140.8	140.8
1497.2							
1419.6							
1083.7							
779.8							
452.4							
282.7							
122.4							
4.2							
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)