

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: P160083

Luminaire Tested: **ENT-F02-LED-E1-SLR-7030-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160083
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: ENT-F02-LED-E1-SLR-7030-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.8 lumens
Efficiency: N/A
Efficacy: 69.6 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

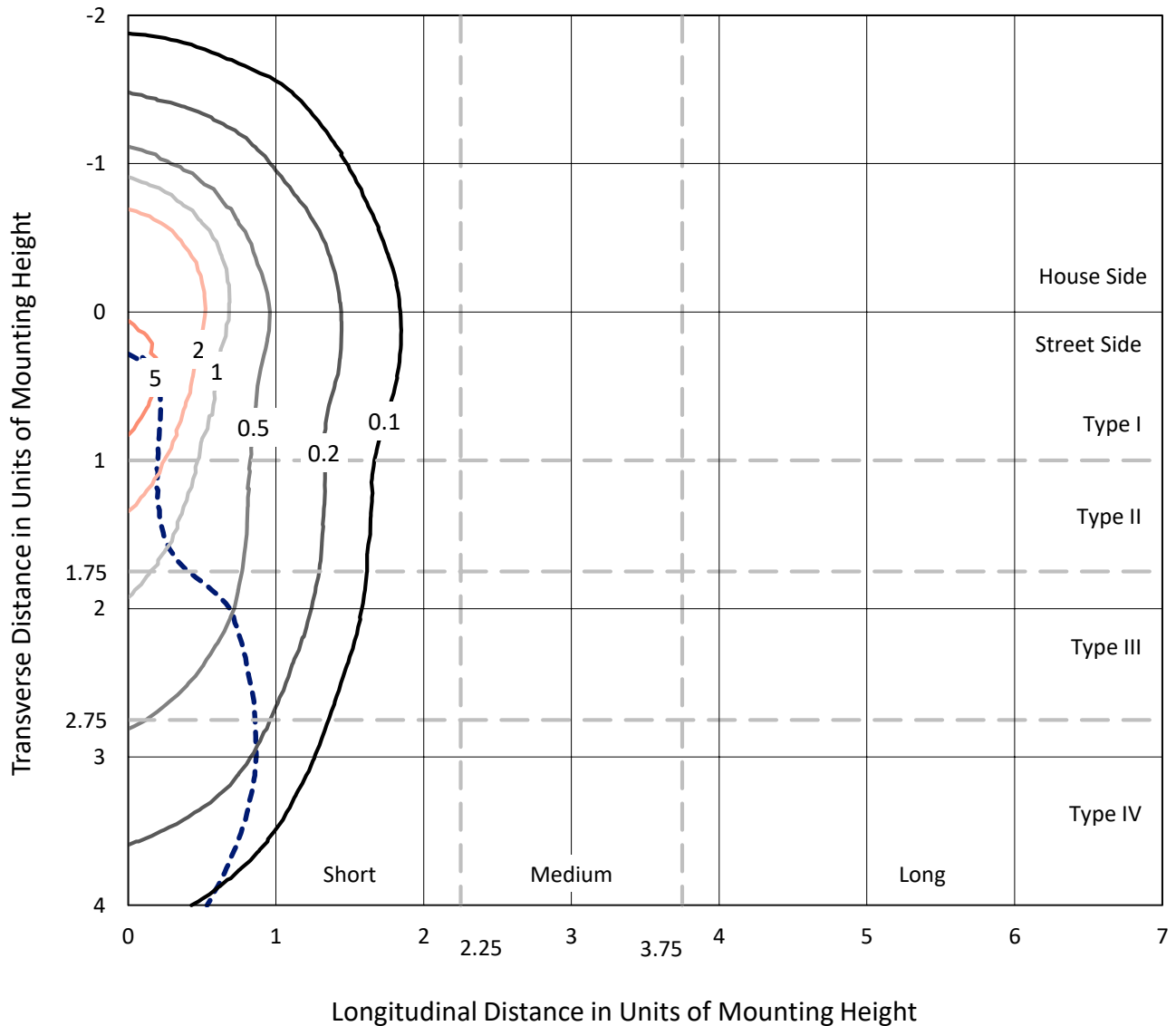
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

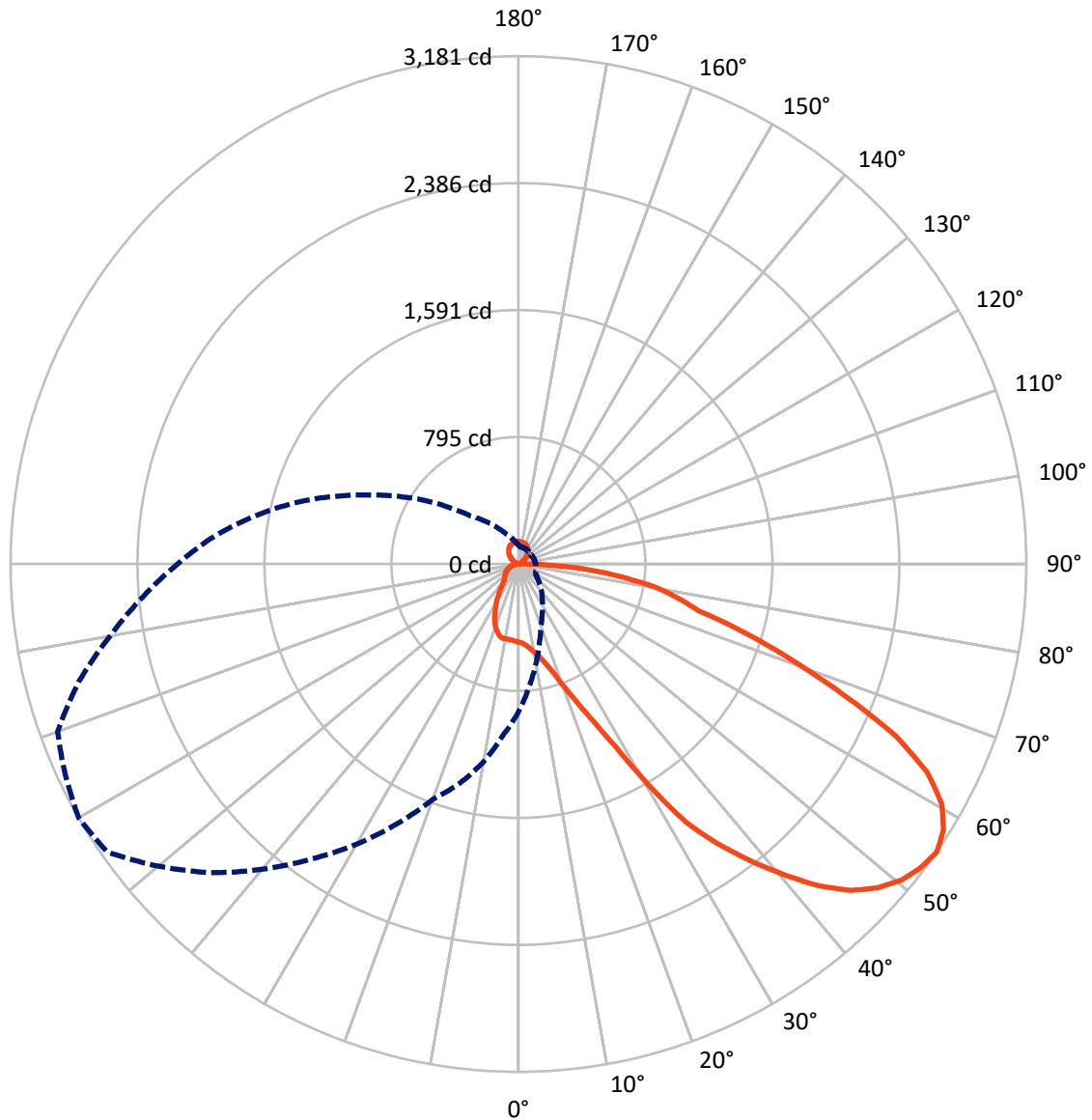
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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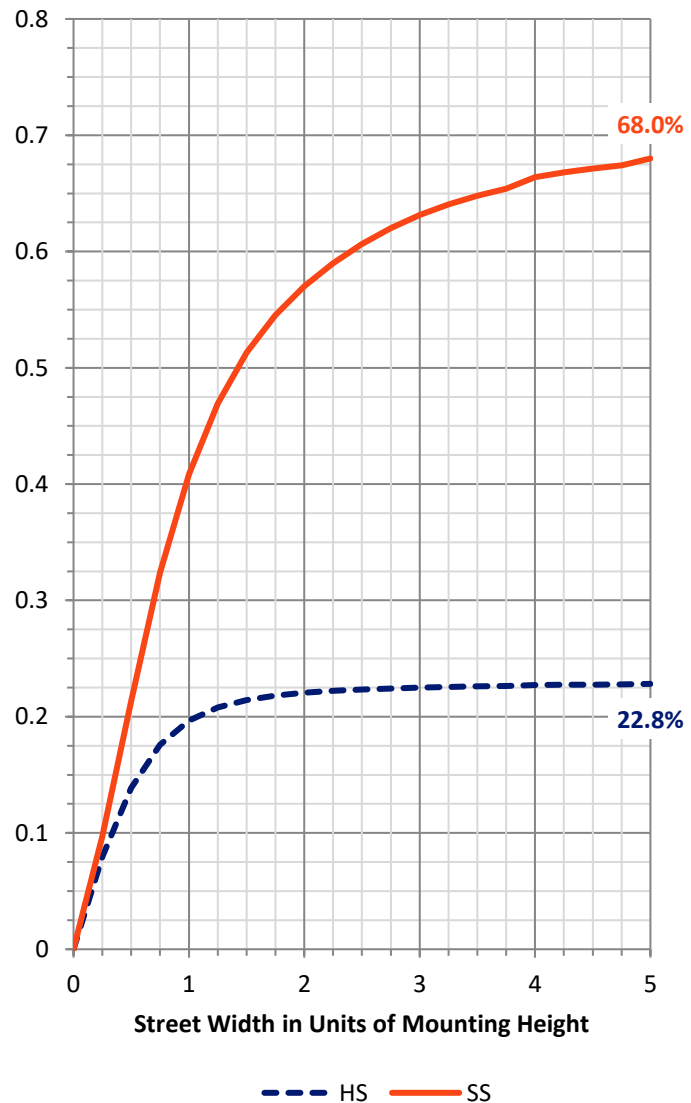
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	917.6	157.7	1075.4
	% Fixture	23.0	4.0	27.0
Street Side	Lumens	2753.7	157.7	2911.5
	% Fixture	69.1	4.0	73.0
Total	Lumens	3671.3	315.5	3986.8
	% Fixture	92.1	7.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.2
10°-20°	158.4	4.0
20°-30°	307.5	7.7
30°-40°	483.2	12.1
40°-50°	645.9	16.2
50°-60°	757.8	19.0
60°-70°	718.9	18.0
70°-80°	433.9	10.9
80°-90°	117.6	2.9
90°-100°	1.3	0.0
100°-110°	12.3	0.3
110°-120°	25.2	0.6
120°-130°	43.0	1.1
130°-140°	60.0	1.5
140°-150°	65.4	1.6
150°-160°	56.9	1.4
160°-170°	38.2	1.0
170°-180°	13.3	0.3
0°-90°	3671.3	92.1
0°-180°	3986.8	100.0



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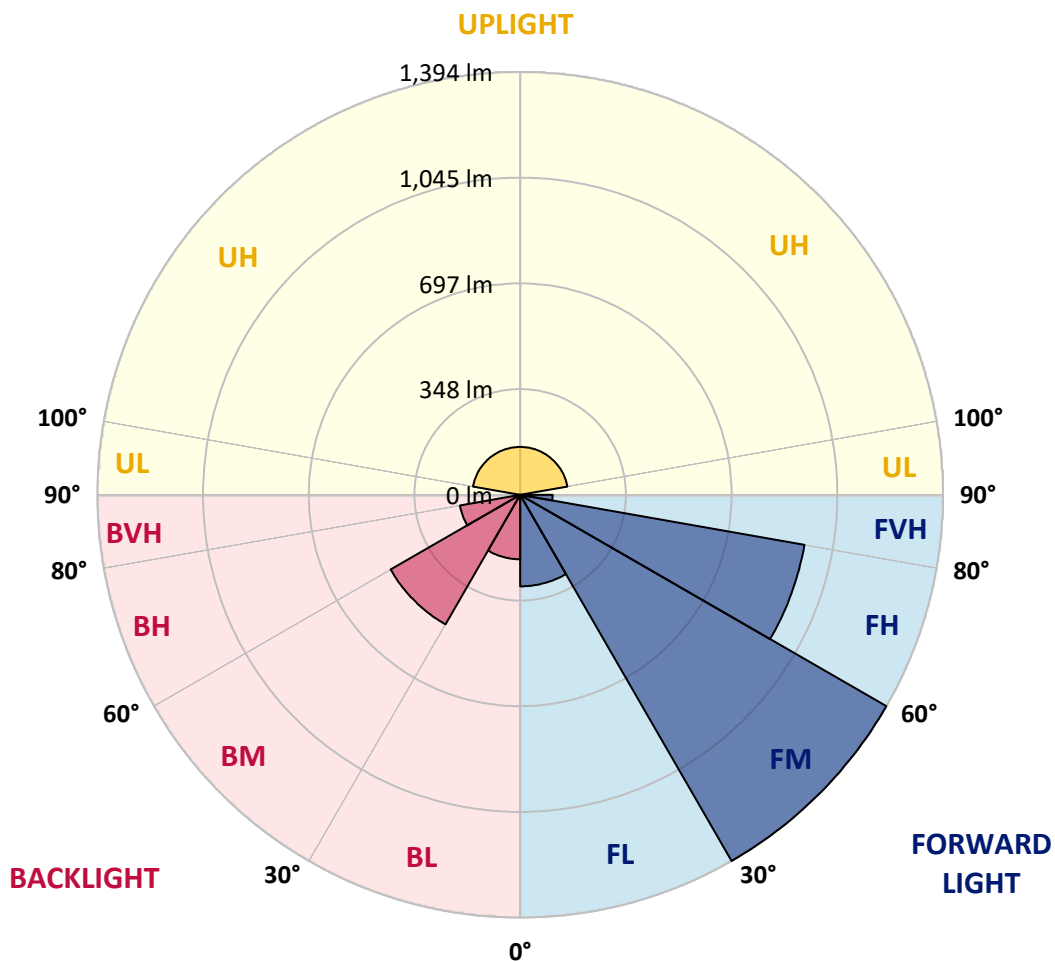
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.7	7.6			
FM	(30°-60°)	1393.7	35.0			
FH	(60°-80°)	951.4	23.9			G1/1800
FVH	(80°-90°)	106.9	2.7			G2/225
BL	(0°-30°)	212.4	5.3	B1/500		
BM	(30°-60°)	493.1	12.4	B1/1000		
BH	(60°-80°)	201.5	5.1	B1/500		G1/500
BVH	(80°-90°)	10.7	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	4.0		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°	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3
2.5°	499.9	503.7	499.1	499.9	498.4	496.9	497.6	496.9	495.4	495.4	493.9
5°	512.0	512.7	509.7	508.9	507.4	505.2	505.9	503.7	502.2	500.7	497.6
7.5°	526.3	525.5	521.8	519.5	518.7	515.0	514.2	511.2	508.9	506.7	502.9
10°	548.2	542.1	537.6	533.8	532.3	527.8	524.0	522.5	518.7	513.5	510.5
12.5°	579.8	576.1	567.0	559.5	554.9	548.9	543.6	539.9	533.8	526.3	522.5
15°	636.4	624.3	613.8	602.4	593.4	583.6	570.8	561.0	550.4	537.6	527.8
17.5°	709.5	694.4	677.8	659.7	640.9	619.8	594.9	576.1	554.9	533.1	518.0
20°	799.2	771.3	748.0	713.3	678.6	645.4	606.2	573.0	542.9	514.2	492.4
22.5°	900.3	858.0	810.5	757.8	702.0	650.7	595.7	550.4	506.7	471.2	446.4
25°	1015.6	949.3	876.9	797.0	717.0	640.9	573.0	516.5	469.7	427.5	399.6
27.5°	1086.5	996.0	909.3	814.3	723.1	634.9	551.9	486.3	432.8	387.6	355.1
30°	1101.6	1010.4	908.6	805.3	711.0	614.5	524.0	450.9	391.3	343.8	311.4
32.5°	1112.1	1006.6	893.5	778.9	676.3	574.5	482.6	410.2	346.8	300.1	262.4
35°	1115.2	992.3	864.8	737.4	629.6	525.5	433.5	357.4	302.4	256.4	222.4
37.5°	1110.6	968.9	826.4	694.4	579.1	470.5	380.0	313.7	266.9	222.4	192.3
40°	1092.5	939.5	791.7	653.0	527.8	415.5	334.8	277.5	237.5	203.6	180.2
42.5°	1069.2	905.5	753.2	604.7	478.0	371.7	298.6	252.6	218.7	194.5	174.9
45°	1039.8	870.1	713.3	561.7	435.8	338.5	277.5	239.0	212.6	191.5	173.4
47.5°	1003.6	832.4	674.8	529.3	407.2	322.0	272.9	239.0	212.6	190.0	170.4
50°	969.6	798.5	645.4	508.9	394.3	322.7	277.5	242.0	211.9	187.0	165.1
52.5°	943.2	778.1	633.4	501.4	395.8	330.2	286.5	246.6	214.1	187.0	163.6
55°	926.7	769.8	631.8	508.2	411.7	350.6	300.8	260.1	224.7	193.0	165.9
57.5°	928.9	778.9	649.9	536.1	447.9	386.0	329.5	284.3	239.8	200.6	166.6
60°	952.3	809.0	693.7	601.7	508.2	433.5	365.7	305.4	246.6	198.3	161.4
62.5°	1011.1	879.9	785.7	691.4	582.8	480.3	387.6	309.1	239.0	187.0	148.5
65°	1122.7	1007.3	916.9	799.2	644.7	499.9	385.3	297.8	224.7	168.9	131.2
67.5°	1232.0	1109.9	982.5	805.3	629.6	485.6	360.4	269.9	199.1	144.8	116.1
70°	1337.6	1179.2	1015.6	797.7	585.9	417.7	300.8	225.4	158.3	120.6	99.5
72.5°	1268.2	1085.8	918.4	703.5	503.7	343.1	239.8	163.6	121.4	99.5	86.0
75°	968.1	841.5	695.9	539.9	371.7	242.0	159.8	116.1	93.5	78.4	70.1
77.5°	696.7	602.4	483.3	354.4	232.2	153.1	108.6	82.9	69.4	58.8	54.3
80°	404.1	346.8	270.7	195.3	132.7	95.8	72.4	58.8	50.5	43.0	41.5
82.5°	252.6	202.1	143.3	96.5	67.9	52.8	42.2	36.2	30.2	26.4	22.6
85°	109.3	78.4	44.5	24.9	18.8	14.3	11.3	9.8	8.3	7.5	6.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	4.5	4.5	4.5	4.5	3.8
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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CATALOG NUMBER: ENT-F02-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: ENT-F02-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3
2.5°	493.9	492.4	491.6	491.6	490.1	490.1	488.6	489.3	488.6	487.1	486.3
5°	496.9	494.6	493.1	491.6	489.3	488.6	487.1	487.1	484.8	482.6	481.8
7.5°	500.7	497.6	495.4	492.4	489.3	487.8	484.8	483.3	481.0	478.8	478.0
10°	508.2	502.9	499.1	495.4	490.1	487.1	482.6	480.3	478.0	475.0	473.5
12.5°	516.5	509.7	504.4	495.4	490.1	484.8	480.3	475.8	471.2	468.2	467.5
15°	516.5	508.2	496.9	488.6	481.0	473.5	469.0	464.5	459.2	456.9	456.2
17.5°	503.7	489.3	478.8	469.7	463.0	456.9	452.4	450.1	445.6	441.1	439.6
20°	474.3	457.7	445.6	435.8	428.3	422.2	420.7	418.5	416.2	416.2	417.0
22.5°	426.0	407.9	397.4	386.8	378.5	375.5	376.2	378.5	379.3	378.5	383.8
25°	377.8	360.4	346.1	336.3	326.5	328.7	325.7	331.0	333.3	334.0	340.1
27.5°	331.0	312.2	297.1	288.8	284.3	281.2	279.0	285.8	287.3	292.5	297.8
30°	281.2	263.9	246.6	239.8	236.0	233.7	234.5	240.5	244.3	251.8	256.4
32.5°	235.2	214.1	201.3	192.3	188.5	187.7	188.5	193.0	197.5	207.3	214.1
35°	196.0	175.7	165.1	159.8	154.6	152.3	154.6	156.1	157.6	165.9	174.2
37.5°	173.4	159.1	150.8	145.5	141.8	139.5	139.5	138.7	139.5	141.0	144.8
40°	163.6	153.1	145.5	140.2	137.2	135.7	135.0	134.2	133.5	133.5	133.5
42.5°	159.8	147.8	140.2	135.7	134.2	134.2	134.2	133.5	131.9	130.4	129.7
45°	156.8	144.0	135.7	131.9	131.9	131.9	132.7	131.9	130.4	128.2	125.9
47.5°	151.6	138.7	131.2	128.2	128.2	128.2	128.9	128.2	126.7	125.2	122.9
50°	145.5	131.9	124.4	122.1	121.4	121.4	120.6	119.9	119.1	117.6	115.4
52.5°	141.8	127.4	120.6	119.1	117.6	116.9	115.4	114.6	113.1	112.3	110.1
55°	141.0	124.4	118.4	116.9	115.4	113.1	110.1	108.6	105.6	104.8	103.3
57.5°	138.7	121.4	114.6	110.8	107.1	104.8	101.8	100.3	98.8	97.3	95.8
60°	131.2	112.3	104.1	101.8	99.5	98.8	97.3	95.8	93.5	91.2	88.2
62.5°	116.9	101.0	95.8	95.0	94.2	92.7	91.2	89.0	87.5	84.4	81.4
65°	105.6	95.0	92.0	90.5	89.7	87.5	86.0	84.4	82.2	79.9	76.9
67.5°	95.8	88.2	86.7	84.4	83.7	82.2	79.9	78.4	76.2	73.9	70.9
70°	86.7	80.7	79.9	78.4	76.9	76.2	73.1	70.9	70.1	67.1	64.8
72.5°	76.9	73.1	71.6	70.1	68.6	67.9	66.4	64.8	63.3	60.3	57.3
75°	64.1	62.6	61.8	60.3	59.6	58.1	55.8	53.5	52.8	50.5	48.3
77.5°	51.3	49.8	49.8	48.3	46.0	43.7	41.5	38.5	38.5	38.5	36.9
80°	36.2	34.7	32.4	31.7	30.2	28.7	26.4	24.9	23.4	23.4	23.4
82.5°	21.1	20.4	18.8	16.6	15.1	14.3	12.1	10.6	9.8	8.3	8.3
85°	4.5	4.5	3.0	3.0	2.3	2.3	2.3	1.5	1.5	0.8	0.8
87.5°	3.8	3.8	3.8	3.0	3.0	3.0	2.3	2.3	2.3	1.5	1.5
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: P160083

CATALOG NUMBER: ENT-F02-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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3
2.5°	486.3	485.6	484.1	481.0	480.3	479.5	480.3	480.3	479.5	480.3	481.0
5°	481.8	481.0	478.8	477.3	475.8	475.8	480.3	480.3	478.0	478.8	481.8
7.5°	478.0	478.0	476.5	475.8	476.5	478.8	482.6	485.6	484.8	489.3	490.8
10°	473.5	474.3	475.0	478.0	482.6	486.3	492.4	497.6	499.1	502.9	505.2
12.5°	469.0	472.0	475.8	481.8	487.8	493.9	500.7	506.7	507.4	511.2	514.2
15°	457.7	462.2	467.5	474.3	483.3	490.1	499.9	504.4	505.9	508.2	512.0
17.5°	440.3	442.6	446.4	453.9	463.7	472.8	484.1	491.6	496.1	499.1	500.7
20°	417.0	421.5	423.7	430.5	435.8	442.6	457.7	467.5	476.5	481.0	485.6
22.5°	384.5	389.8	395.1	401.9	404.9	409.4	423.7	438.8	452.4	461.4	466.7
25°	343.8	349.9	357.4	365.7	369.5	374.0	390.6	405.6	422.2	438.1	445.6
27.5°	303.1	310.6	318.2	328.0	334.0	339.3	353.6	367.9	385.3	400.4	407.9
30°	263.9	274.5	281.2	292.5	297.8	303.1	315.9	331.8	343.8	361.2	371.0
32.5°	223.2	230.7	243.5	256.4	262.4	267.7	279.7	293.3	303.9	321.2	335.5
35°	186.2	193.0	206.6	219.4	223.2	231.5	243.5	255.6	265.4	281.2	294.8
37.5°	151.6	162.9	173.4	183.2	191.5	197.5	208.9	219.4	224.7	239.8	254.1
40°	135.0	140.2	147.8	156.8	162.1	168.1	176.4	185.5	191.5	202.1	214.1
42.5°	128.9	128.9	131.2	135.7	142.5	145.5	153.1	157.6	165.9	170.4	181.0
45°	124.4	122.9	123.7	123.7	125.9	128.2	134.2	138.7	144.0	147.8	154.6
47.5°	120.6	117.6	116.9	115.4	114.6	116.1	120.6	124.4	126.7	129.7	131.9
50°	112.3	110.1	107.8	106.3	105.6	107.1	110.8	113.9	114.6	116.1	117.6
52.5°	107.8	104.8	102.5	100.3	100.3	101.8	104.8	107.1	107.8	108.6	110.1
55°	101.8	100.3	98.8	96.5	95.8	98.0	100.3	102.5	104.1	104.1	105.6
57.5°	94.2	92.7	94.2	93.5	92.7	94.2	97.3	99.5	100.3	100.3	101.0
60°	86.7	86.0	86.0	87.5	89.0	91.2	93.5	96.5	95.8	94.2	95.0
62.5°	79.9	79.2	79.9	82.2	84.4	86.7	89.7	92.0	89.7	88.2	88.2
65°	75.4	74.6	75.4	76.2	76.9	79.2	82.9	83.7	82.2	82.2	82.2
67.5°	69.4	68.6	67.9	68.6	69.4	70.1	73.1	73.9	73.9	73.9	73.9
70°	61.8	61.1	60.3	60.3	60.3	61.1	61.8	63.3	64.8	66.4	67.1
72.5°	53.5	52.0	52.0	52.0	50.5	51.3	52.0	55.0	56.5	58.1	59.6
75°	45.2	43.7	43.7	42.2	43.0	43.7	43.7	45.2	46.7	49.0	50.5
77.5°	35.4	35.4	35.4	34.7	34.7	35.4	36.2	36.2	37.7	40.0	42.2
80°	22.6	22.6	24.1	24.9	25.6	26.4	27.9	28.7	29.4	31.7	32.4
82.5°	8.3	9.0	9.8	9.8	12.1	15.1	15.8	18.1	19.6	21.9	21.9
85°	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.0	4.5	6.8	8.3
87.5°	1.5	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°	
489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	112.5°	21.2
481.8	484.1	483.3	482.6	483.3	484.8	484.1	484.8	485.6	487.1	486.3	115°	25.0
482.6	484.8	485.6	485.6	487.1	489.3	489.3	490.1	490.8	492.4	492.4	117.5°	29.5
493.1	498.4	498.4	499.1	501.4	503.7	504.4	505.2	504.4	504.4	504.4	120°	34.8
508.9	515.0	515.7	519.5	522.5	521.8	521.8	522.5	521.0	519.5	517.2	122.5°	40.9
517.2	522.5	524.0	527.8	532.3	533.1	535.3	536.8	535.3	531.6	527.8	125°	47.8
515.0	519.5	522.5	527.0	532.3	535.3	539.9	541.4	540.6	536.1	531.6	127.5°	55.3
505.2	510.5	514.2	520.3	526.3	530.8	535.3	537.6	537.6	533.8	530.8	130°	63.0
489.3	495.4	500.7	507.4	515.0	520.3	525.5	527.0	527.0	525.5	527.8	132.5°	70.5
472.8	479.5	485.6	492.4	502.2	507.4	513.5	518.0	520.3	523.3	533.1	135°	77.9
451.6	454.7	462.2	469.7	483.3	492.4	505.2	517.2	529.3	542.9	562.5	137.5°	85.3
414.7	420.0	429.0	439.6	453.2	469.7	493.1	516.5	538.4	558.7	582.8	140°	92.5
383.8	393.6	403.4	415.5	429.8	445.6	472.8	502.9	529.3	553.4	579.8	142.5°	99.2
350.6	362.7	375.5	391.3	404.9	419.2	441.8	475.0	506.7	533.8	561.7	145°	104.9
312.2	325.0	337.8	354.4	368.7	386.8	407.2	439.6	475.8	506.7	539.9	147.5°	110.1
270.7	282.0	296.3	311.4	328.0	349.1	371.0	401.1	438.8	472.0	509.7	150°	115.1
231.5	243.5	257.9	274.5	291.0	313.7	338.5	367.2	401.9	437.3	477.3	152.5°	119.7
194.5	210.4	225.4	242.0	259.4	280.5	306.9	337.8	372.5	410.2	452.4	155°	123.7
163.6	175.7	191.5	205.1	223.9	244.3	271.4	306.1	346.1	386.0	430.5	157.5°	127.0
136.5	144.0	157.6	174.2	191.5	212.6	235.2	269.9	310.6	354.4	404.1	160°	130.3
119.9	123.7	133.5	148.5	165.1	186.2	205.8	236.0	276.7	319.7	371.0	162.5°	133.5
111.6	113.1	118.4	129.7	145.5	164.4	185.5	211.1	247.3	289.5	338.5	165°	136.0
107.1	107.8	109.3	117.6	131.2	148.5	169.6	190.0	222.4	262.4	309.9	167.5°	137.1
101.8	102.5	103.3	107.8	117.6	132.7	150.8	167.4	196.8	232.2	277.5	170°	137.4
96.5	98.0	99.5	101.0	107.8	117.6	131.2	145.5	165.9	196.8	233.7	172.5°	138.6
89.7	91.2	93.5	95.0	97.3	103.3	111.6	120.6	131.2	153.1	183.2	175°	140.5
83.7	85.2	86.0	86.7	88.2	89.7	92.7	95.0	100.3	113.1	134.2	177.5°	141.1
75.4	76.9	76.9	77.7	78.4	78.4	79.9	80.7	82.2	86.0	95.0	180°	140.8
68.6	69.4	70.1	70.9	70.9	70.9	70.1	70.9	70.1	70.1	73.9		
60.3	61.1	61.8	62.6	63.3	64.1	64.8	64.8	64.1	62.6	62.6		
51.3	51.3	52.8	53.5	54.3	56.5	58.1	56.5	56.5	55.8	55.8		
43.0	44.5	45.2	45.2	46.7	49.0	50.5	49.8	47.5	47.5	48.3		
33.2	33.9	34.7	35.4	36.2	38.5	40.7	41.5	40.0	40.7	40.7		
21.9	22.6	24.1	24.9	25.6	27.9	30.2	32.4	31.7	33.2	31.7		
9.8	11.3	12.1	12.1	14.3	16.6	19.6	21.9	24.9	25.6	23.4		
0.0	0.8	0.8	0.8	3.0	5.3	9.8	15.1	20.4	15.8	12.1		
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	0.1		
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°	489.3	489.3
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	486.3	487.1
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	493.1	493.1
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	502.9	502.9
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	515.7	513.5
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	523.3	519.5
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	527.8	524.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	529.3	529.3
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	533.1	539.1
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	545.9	561.0
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	583.6	604.7
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	613.0	640.9
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	615.3	649.9
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	601.7	639.4
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	581.3	624.3
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	556.4	604.7
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	527.8	577.6
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	501.4	552.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	482.6	536.8
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	462.2	520.3
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	429.8	498.4
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	395.1	463.7
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	363.4	429.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	329.5	395.8
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	285.0	351.4
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	227.7	290.3
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	163.6	216.4
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	110.8	147.0
										70°	80.7	100.3
										72.5°	65.6	75.4
										75°	58.1	63.3
										77.5°	51.3	54.3
										80°	40.7	43.7
										82.5°	31.7	34.7
										85°	23.4	25.6
										87.5°	10.6	10.6
										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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tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	112.5°	21.2	21.2	21.2
487.8	488.6	488.6	490.1	490.8	492.4	493.1	493.1	493.1	115°	25.0	25.0	25.0
494.6	495.4	496.1	498.4	499.1	501.4	503.7	504.4	506.7	117.5°	29.5	29.5	29.5
502.9	505.2	505.9	507.4	508.9	512.7	515.7	517.2	519.5	120°	34.8	34.8	34.8
512.7	513.5	513.5	515.0	518.7	521.0	524.8	531.6	536.1	122.5°	40.9	40.9	40.9
519.5	517.2	518.7	520.3	524.0	529.3	535.3	545.1	554.2	125°	47.8	47.8	47.8
524.0	524.0	527.8	530.8	537.6	545.9	557.2	570.8	584.3	127.5°	55.3	55.3	55.3
532.3	534.6	542.9	548.9	561.0	573.0	587.4	606.2	626.6	130°	63.0	63.0	63.0
547.4	553.4	562.5	572.3	584.3	602.4	626.6	650.7	677.8	132.5°	70.5	70.5	70.5
571.5	585.1	600.2	612.2	626.6	652.2	678.6	708.8	742.7	135°	77.9	77.9	77.9
624.3	639.4	662.0	682.4	702.7	739.7	773.6	808.3	854.3	137.5°	85.3	85.3	85.3
670.3	694.4	729.9	759.3	787.2	831.7	869.4	926.7	975.7	140°	92.5	92.5	92.5
689.9	729.1	773.6	815.8	867.8	911.6	967.4	1036.0	1100.1	142.5°	99.2	99.2	99.2
685.4	732.9	788.7	846.0	907.8	977.9	1042.0	1118.9	1202.6	145°	104.9	104.9	104.9
674.8	728.4	793.2	861.8	935.7	1023.2	1103.8	1199.6	1303.7	147.5°	110.1	110.1	110.1
662.0	724.6	797.0	877.6	970.4	1074.4	1178.5	1303.7	1433.3	150°	115.1	115.1	115.1
642.4	714.0	801.5	901.8	1015.6	1137.8	1274.2	1423.5	1563.0	152.5°	119.7	119.7	119.7
620.5	701.2	806.8	935.0	1078.2	1229.8	1387.3	1539.7	1698.7	155°	123.7	123.7	123.7
606.2	697.4	820.3	973.4	1140.0	1315.7	1491.4	1658.0	1831.5	157.5°	127.0	127.0	127.0
597.9	699.7	834.7	1002.1	1186.0	1379.8	1566.0	1757.6	1939.3	160°	130.3	130.3	130.3
590.4	705.7	847.5	1020.2	1215.4	1421.3	1624.9	1831.5	2032.8	162.5°	133.5	133.5	133.5
570.8	703.5	852.0	1025.4	1230.5	1448.4	1665.6	1883.5	2097.6	165°	136.0	136.0	136.0
536.8	682.4	842.2	1020.2	1235.0	1464.3	1692.0	1921.9	2134.6	167.5°	137.1	137.1	137.1
491.6	639.4	807.5	997.5	1219.2	1456.7	1701.0	1946.8	2155.7	170°	137.4	137.4	137.4
441.1	572.3	746.5	945.5	1167.9	1410.7	1661.0	1923.4	2131.5	172.5°	138.6	138.6	138.6
371.7	488.6	663.5	857.3	1074.4	1315.7	1542.7	1829.2	2041.1	175°	140.5	140.5	140.5
284.3	388.3	539.1	736.7	957.6	1168.7	1374.5	1661.0	1896.3	177.5°	141.1	141.1	141.1
196.0	276.7	403.4	576.1	782.6	977.2	1182.3	1449.9	1724.4	180°	140.8	140.8	140.8
127.4	179.5	266.9	399.6	563.2	742.7	913.1	1158.1	1452.2				
90.5	114.6	162.9	246.6	371.0	509.7	649.2	815.1	1095.6				
71.6	83.7	100.3	143.3	217.2	317.4	429.8	534.6	769.1				
58.1	63.3	71.6	88.2	128.2	183.2	253.3	337.0	478.0				
46.7	50.5	55.8	62.6	79.2	105.6	147.0	185.5	272.9				
37.7	42.2	43.7	44.5	51.3	60.3	77.7	104.8	156.1				
27.1	28.7	28.7	29.4	30.9	33.2	44.5	76.9	113.9				
10.6	9.0	9.8	7.5	8.3	9.0	14.3	16.6	26.4				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8				
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8				



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CANDELA DISTRIBUTION (continued):

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	489.3	489.3	489.3	489.3
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	495.4	495.4	494.6	494.6
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	508.2	510.5	508.9	511.2
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	524.8	526.3	527.8	530.8
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	542.1	547.4	552.7	554.9
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	562.5	572.3	582.8	588.1
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	597.9	613.0	625.1	633.4
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	644.7	665.0	685.4	699.7
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	704.2	733.6	762.3	780.4
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	779.6	814.3	846.0	880.7
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	883.7	931.9	987.7	1017.9
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1032.2	1097.8	1137.0	1204.1
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1174.0	1254.6	1349.6	1442.4
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1293.9	1412.2	1551.7	1692.7
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1419.8	1569.8	1731.2	1912.1
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1570.6	1725.9	1900.1	2098.4
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	1707.8	1885.0	2098.4	2281.6
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1859.3	2047.8	2288.4	2500.2
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	2006.4	2203.2	2466.3	2698.5
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2135.3	2332.9	2613.3	2855.4
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	2238.6	2458.8	2732.5	2964.7
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2319.3	2552.3	2823.0	3040.1
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	2361.5	2596.8	2850.8	3071.8
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2367.5	2593.7	2827.5	3043.1
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	2310.2	2510.8	2734.0	2959.4
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2182.1	2338.9	2550.8	2773.9
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	2017.7	2120.2	2261.2	2479.9
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1856.3	1924.2	1998.1	2159.4
								70°	1608.3	1664.8	1738.7	1839.0
								72.5°	1250.9	1325.5	1378.3	1475.6
								75°	940.2	983.2	1059.4	1149.1
								77.5°	661.3	705.0	791.7	894.2
								80°	444.1	474.3	527.8	616.0
								82.5°	272.2	306.9	352.1	428.3
								85°	182.5	236.8	294.8	352.1
								87.5°	76.9	129.7	164.4	172.7
								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°
489.3	489.3	489.3	489.3	489.3	489.3	489.3	112.5°	21.2	21.2	21.2	21.2	21.2
496.9	496.1	497.6	497.6	496.9	496.9	499.1	115°	25.0	25.0	25.0	25.0	25.0
512.7	513.5	515.0	513.5	516.5	512.7	513.5	117.5°	29.5	29.5	29.5	29.5	29.5
534.6	535.3	537.6	536.8	539.1	536.8	533.8	120°	34.8	34.8	34.8	34.8	34.8
562.5	564.0	564.0	567.8	571.5	567.0	561.7	122.5°	40.9	40.9	40.9	40.9	40.9
594.9	600.2	597.9	605.5	609.2	606.2	602.4	125°	47.8	47.8	47.8	47.8	47.8
639.4	649.9	648.4	662.8	668.0	665.8	666.5	127.5°	55.3	55.3	55.3	55.3	55.3
705.7	720.8	723.1	745.7	760.0	757.8	754.0	130°	63.0	63.0	63.0	63.0	63.0
782.6	821.9	830.9	850.5	866.3	872.4	871.6	132.5°	70.5	70.5	70.5	70.5	70.5
913.1	941.7	962.1	997.5	1011.9	1025.4	1021.7	135°	77.9	77.9	77.9	77.9	77.9
1061.6	1088.0	1133.3	1178.5	1192.8	1205.6	1222.2	137.5°	85.3	85.3	85.3	85.3	85.3
1251.6	1290.1	1361.7	1422.8	1457.5	1446.9	1441.6	140°	92.5	92.5	92.5	92.5	92.5
1508.7	1605.3	1658.0	1707.8	1730.4	1697.2	1655.0	142.5°	99.2	99.2	99.2	99.2	99.2
1816.4	1929.5	1962.6	1986.8	1943.8	1898.6	1774.9	145°	104.9	104.9	104.9	104.9	104.9
2041.8	2152.7	2221.3	2246.9	2154.9	2020.7	1853.3	147.5°	110.1	110.1	110.1	110.1	110.1
2245.4	2357.7	2387.9	2399.2	2275.6	2102.1	1939.3	150°	115.1	115.1	115.1	115.1	115.1
2461.8	2556.0	2573.4	2567.3	2403.0	2197.9	2045.6	152.5°	119.7	119.7	119.7	119.7	119.7
2658.6	2755.1	2739.3	2712.9	2525.9	2318.5	2150.4	155°	123.7	123.7	123.7	123.7	123.7
2845.6	2916.4	2887.8	2822.2	2642.0	2411.3	2232.6	157.5°	127.0	127.0	127.0	127.0	127.0
2970.7	3030.3	2999.4	2916.4	2721.9	2473.9	2277.8	160°	130.3	130.3	130.3	130.3	130.3
3065.7	3111.0	3092.9	2973.0	2768.7	2512.3	2298.2	162.5°	133.5	133.5	133.5	133.5	133.5
3113.2	3157.7	3147.2	2983.6	2774.7	2518.3	2288.4	165°	136.0	136.0	136.0	136.0	136.0
3130.6	3181.1	3144.2	2944.3	2734.7	2495.7	2254.4	167.5°	137.1	137.1	137.1	137.1	137.1
3116.3	3139.6	3085.3	2869.7	2653.3	2425.6	2206.2	170°	137.4	137.4	137.4	137.4	137.4
3063.5	3046.9	2972.2	2740.0	2537.9	2328.3	2152.7	172.5°	138.6	138.6	138.6	138.6	138.6
2915.7	2872.7	2812.4	2590.0	2384.1	2174.5	2069.7	175°	140.5	140.5	140.5	140.5	140.5
2611.1	2599.0	2571.1	2406.0	2201.7	2001.9	1934.7	177.5°	141.1	141.1	141.1	141.1	141.1
2220.5	2208.4	2212.2	2100.6	1952.8	1758.3	1759.8	180°	140.8	140.8	140.8	140.8	140.8
1903.8	1837.5	1759.1	1639.2	1553.2	1526.8	1612.0						
1532.1	1495.9	1431.8	1327.0	1229.8	1263.7	1454.5						
1184.5	1162.7	1209.4	1221.5	1183.8	1161.1	1226.0						
970.4	1017.9	1092.5	1187.5	1196.6	1163.4	1040.5						
738.9	862.6	965.9	1094.0	1080.5	1008.8	874.6						
517.2	637.1	734.4	842.2	838.4	772.8	706.5						
395.8	433.5	470.5	583.6	627.3	576.8	504.4						
187.0	188.5	227.0	279.7	300.1	342.3	337.8						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.5	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						



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CATALOG NUMBER: ENT-F02-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°	489.3	489.3	489.3	489.3	489.3	489.3
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	499.9	499.1	499.1	499.1	499.9	499.1
29.5	29.5	29.5	29.5	29.5	29.5	5°	515.0	513.5	512.7	512.7	512.0	512.0
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	534.6	531.6	531.6	529.3	528.5	526.3
40.9	40.9	40.9	40.9	40.9	40.9	10°	561.0	558.0	557.2	551.2	551.2	545.9
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	599.4	599.4	599.4	591.9	590.4	581.3
55.3	55.3	55.3	55.3	55.3	55.3	15°	665.8	659.7	665.0	652.2	651.5	639.4
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	755.5	755.5	744.9	738.9	735.1	717.8
70.5	70.5	70.5	70.5	70.5	70.5	20°	874.6	875.4	857.3	840.7	833.2	813.6
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1026.2	1011.9	989.2	977.2	965.1	932.7
85.3	85.3	85.3	85.3	85.3	85.3	25°	1225.2	1219.2	1179.2	1135.5	1117.4	1068.4
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1420.5	1407.7	1343.6	1269.0	1223.0	1155.9
99.2	99.2	99.2	99.2	99.2	99.2	30°	1592.4	1508.0	1431.8	1342.1	1272.0	1188.3
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1682.2	1575.8	1465.0	1391.1	1302.9	1210.2
110.1	110.1	110.1	110.1	110.1	110.1	35°	1751.5	1637.7	1527.6	1431.8	1332.3	1227.5
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1839.7	1719.9	1598.5	1484.6	1363.2	1240.3
119.7	119.7	119.7	119.7	119.7	119.7	40°	1937.8	1800.5	1650.5	1512.5	1376.0	1235.8
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2019.2	1853.3	1676.9	1521.6	1371.5	1216.9
127.0	127.0	127.0	127.0	127.0	127.0	45°	2064.4	1875.2	1679.1	1511.8	1353.4	1193.6
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2085.5	1875.9	1664.1	1489.9	1329.3	1160.4
133.5	133.5	133.5	133.5	133.5	133.5	50°	2083.3	1857.1	1635.4	1460.5	1302.1	1125.7
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2060.7	1826.2	1602.2	1437.1	1278.8	1096.3
137.1	137.1	137.1	137.1	137.1	137.1	55°	2026.0	1793.0	1569.1	1421.3	1259.2	1072.2
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1986.8	1764.3	1544.9	1418.3	1247.9	1067.7
138.6	138.6	138.6	138.6	138.6	138.6	60°	1969.4	1767.4	1560.0	1397.1	1241.8	1077.5
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1958.1	1796.0	1590.9	1411.5	1251.6	1118.9
141.1	141.1	141.1	141.1	141.1	141.1	65°	1912.1	1836.0	1638.4	1462.7	1322.5	1216.2
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1857.1	1847.3	1657.3	1492.9	1403.2	1342.9
						70°	1799.8	1835.2	1684.4	1572.1	1522.3	1498.2
						72.5°	1707.8	1748.5	1608.3	1541.2	1526.1	1508.7
						75°	1424.3	1431.8	1324.8	1287.8	1314.2	1273.5
						77.5°	1023.9	1043.5	974.2	984.0	1069.9	981.7
						80°	758.5	681.6	637.9	667.3	749.5	623.6
						82.5°	625.1	505.9	429.0	469.0	500.7	367.9
						85°	481.0	386.0	317.4	256.4	244.3	157.6
						87.5°	377.8	279.0	155.3	87.5	58.8	3.8
						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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CATALOG NUMBER: ENT-F02-LED-E1-SLR-7030-ULG

CANDELA DISTRIBUTION (continued):

360°	330°	335°	340°	345°	350°	355°	360°
489.3	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
499.9	115°	25.0	25.0	25.0	25.0	25.0	25.0
512.0	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
526.3	120°	34.8	34.8	34.8	34.8	34.8	34.8
548.2	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
579.8	125°	47.8	47.8	47.8	47.8	47.8	47.8
636.4	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
709.5	130°	63.0	63.0	63.0	63.0	63.0	63.0
799.2	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
900.3	135°	77.9	77.9	77.9	77.9	77.9	77.9
1015.6	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
1086.5	140°	92.5	92.5	92.5	92.5	92.5	92.5
1101.6	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
1112.1	145°	104.9	104.9	104.9	104.9	104.9	104.9
1115.2	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
1110.6	150°	115.1	115.1	115.1	115.1	115.1	115.1
1092.5	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
1069.2	155°	123.7	123.7	123.7	123.7	123.7	123.7
1039.8	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
1003.6	160°	130.3	130.3	130.3	130.3	130.3	130.3
969.6	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
943.2	165°	136.0	136.0	136.0	136.0	136.0	136.0
926.7	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
928.9	170°	137.4	137.4	137.4	137.4	137.4	137.4
952.3	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
1011.1	175°	140.5	140.5	140.5	140.5	140.5	140.5
1122.7	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
1232.0	180°	140.8	140.8	140.8	140.8	140.8	140.8
1337.6							
1268.2							
968.1							
696.7							
404.1							
252.6							
109.3							
3.8							
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)