

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: P159964

Luminaire Tested: **ENC-F02-LED-E1-SLR-7050-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159964
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: ENC-F02-LED-E1-SLR-7050-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4440.1 lumens
Efficiency: N/A
Efficacy: 77.5 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

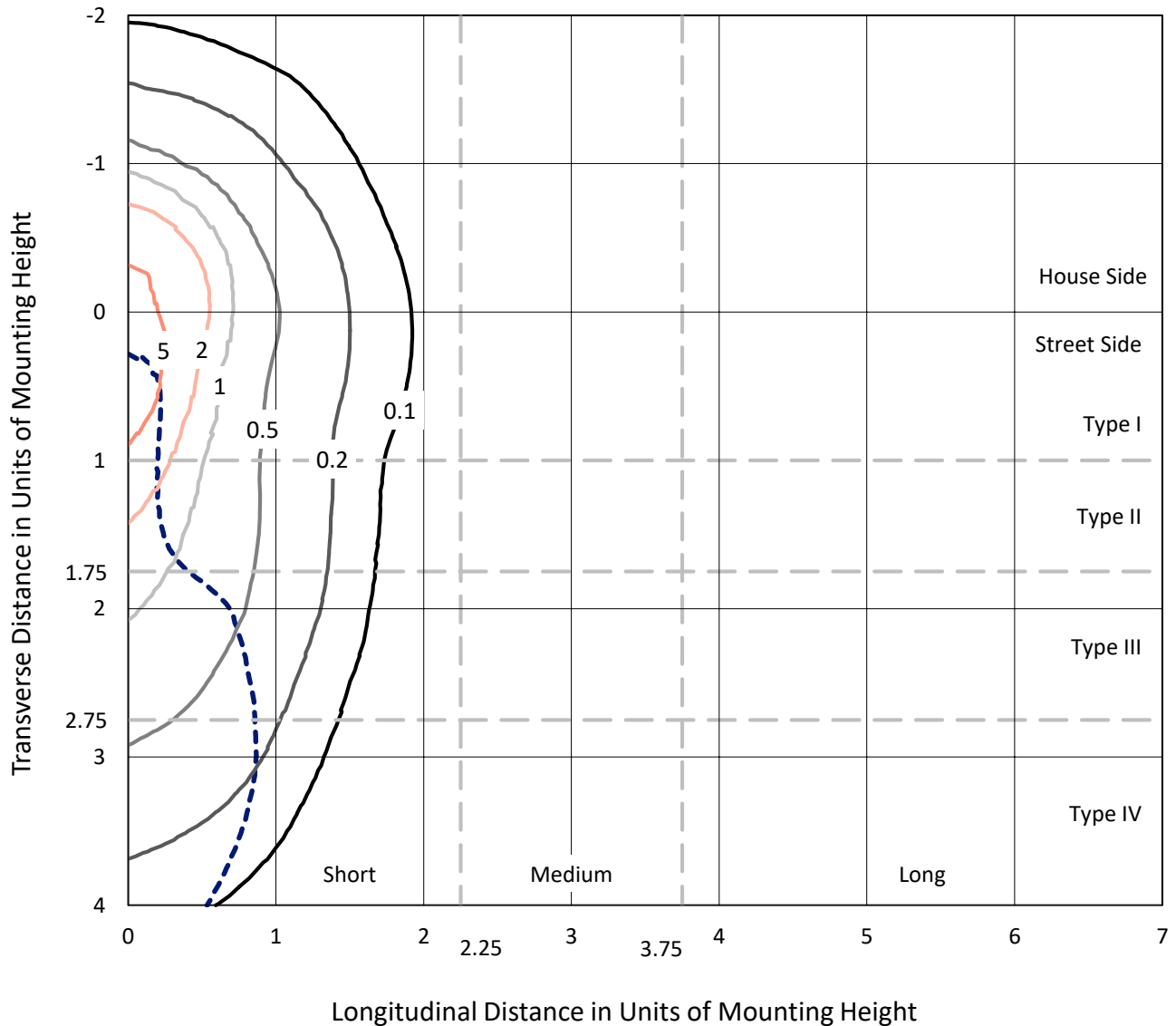
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

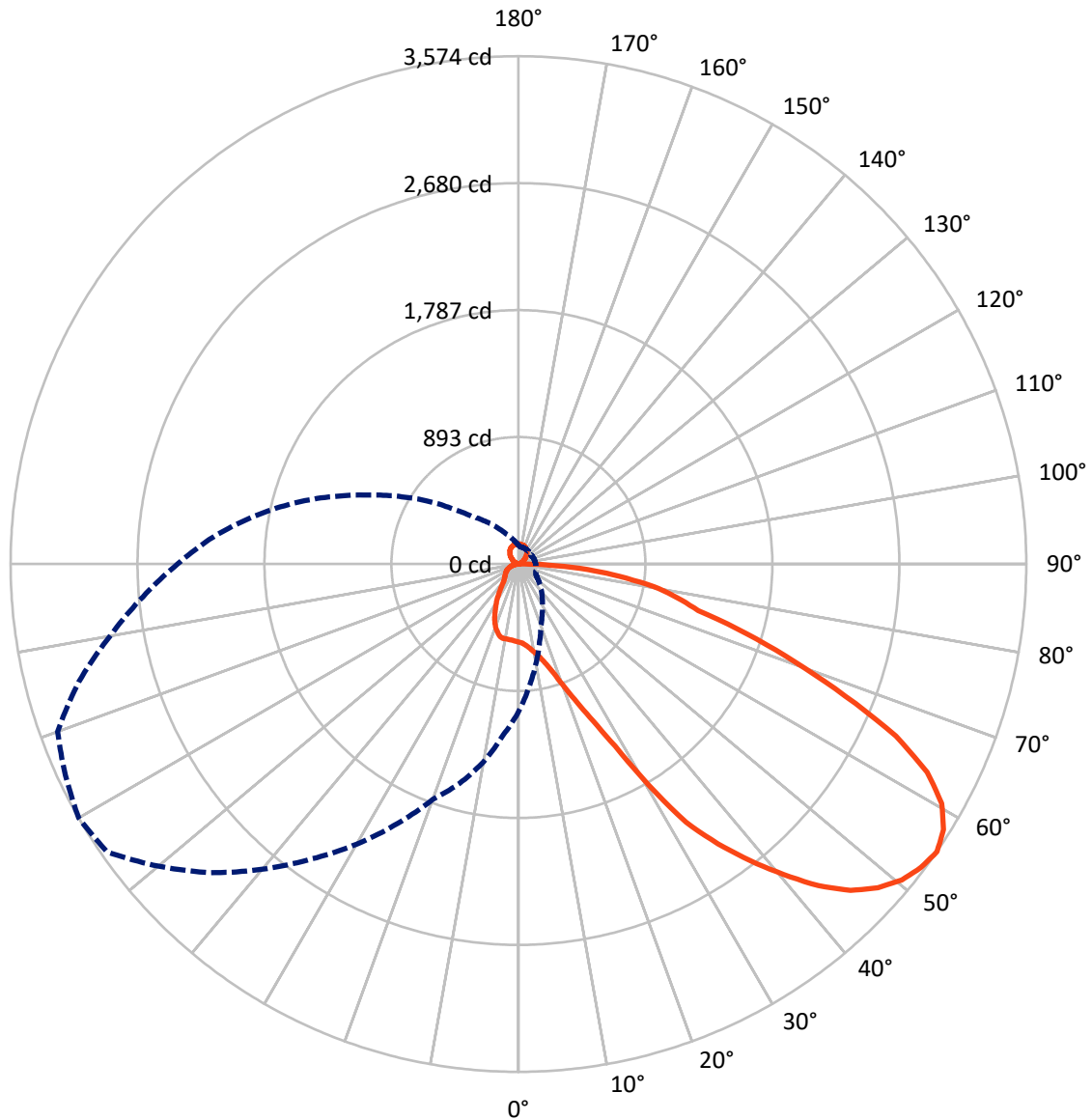
× Max cd
 - - - 1/2 Max cd



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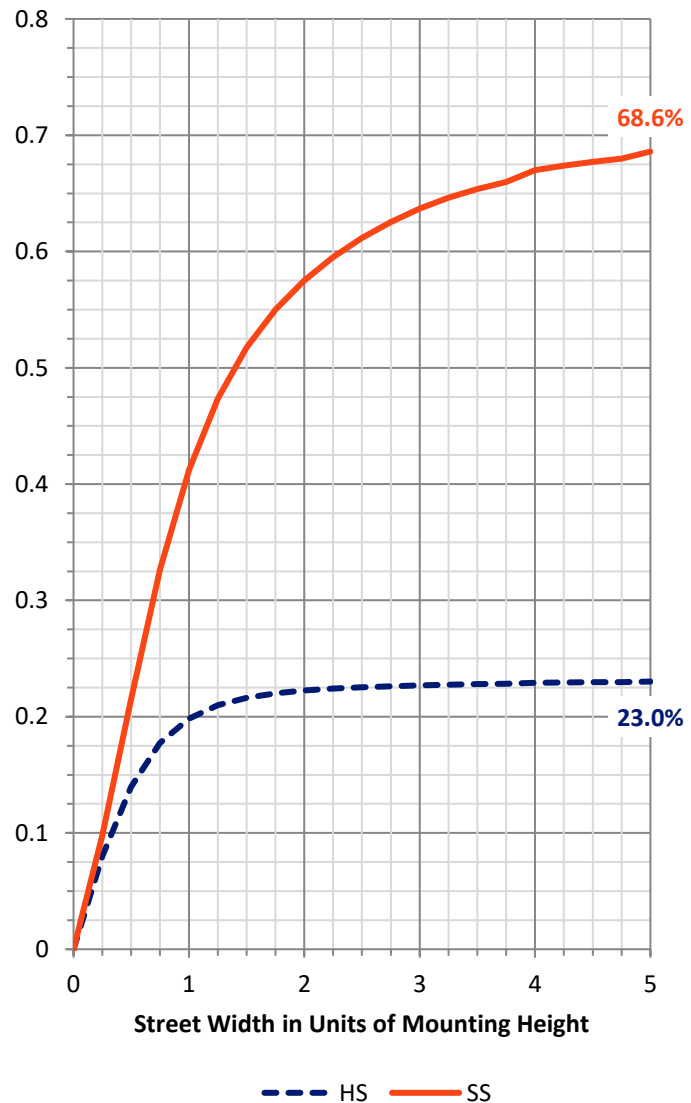
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1030.9	157.7	1188.7
	% Fixture	23.2	3.6	26.8
Street Side	Lumens	3093.7	157.7	3251.4
	% Fixture	69.7	3.6	73.2
Total	Lumens	4124.6	315.5	4440.1
	% Fixture	92.9	7.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.2
10°-20°	178.0	4.0
20°-30°	345.4	7.8
30°-40°	542.8	12.2
40°-50°	725.6	16.3
50°-60°	851.3	19.2
60°-70°	807.7	18.2
70°-80°	487.5	11.0
80°-90°	132.1	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°	4124.6	92.9
0°-180°	4440.1	100.0



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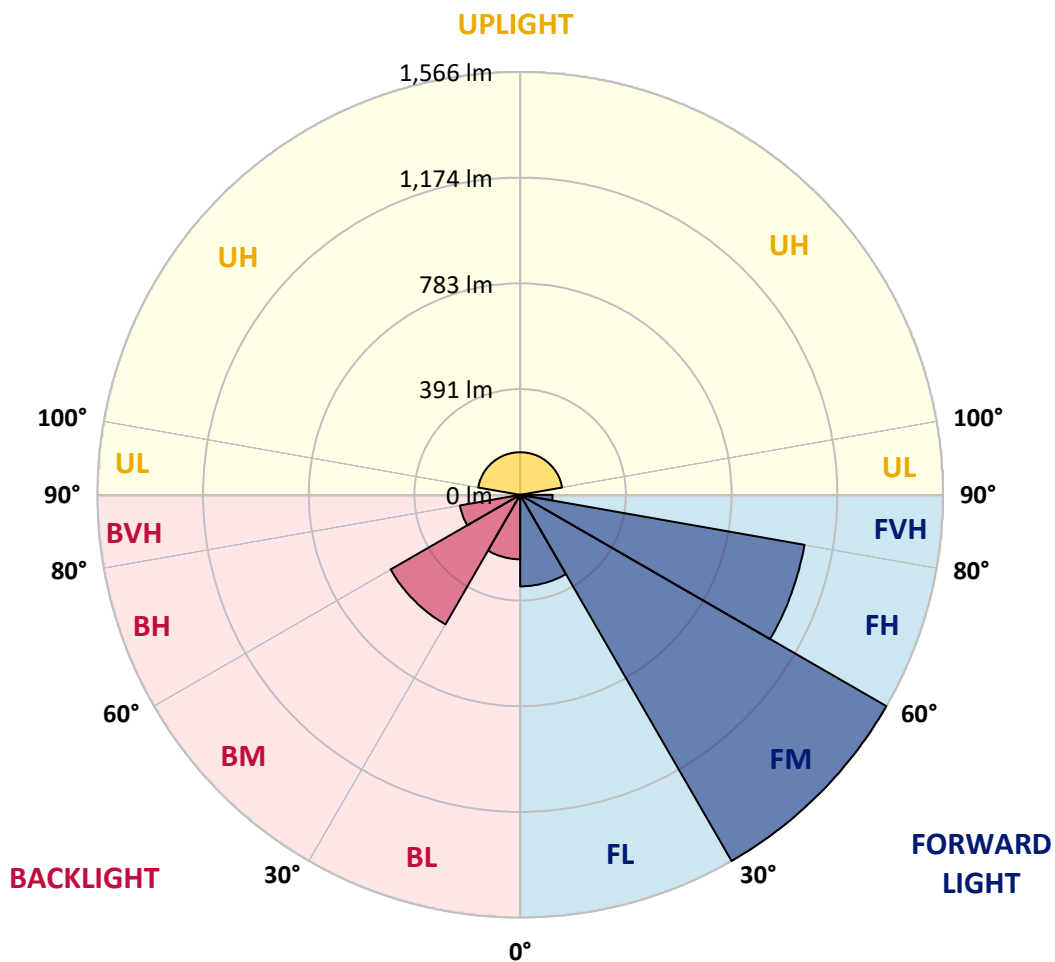
CATALOG NUMBER: ENC-F02-LED-E1-SLR-7050-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.0	7.6			
FM	(30°-60°)	1565.8	35.3			
FH	(60°-80°)	1068.8	24.1			G1/1800
FVH	(80°-90°)	120.1	2.7			G2/225
BL	(0°-30°)	238.6	5.4	B1/500		
BM	(30°-60°)	554.0	12.5	B1/1000		
BH	(60°-80°)	226.3	5.1	B1/500		G1/500
BVH	(80°-90°)	12.0	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°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	561.6	565.8	560.8	561.6	559.9	558.2	559.1	558.2	556.5	556.5	554.8
5°	575.2	576.0	572.6	571.8	570.1	567.5	568.4	565.8	564.2	562.5	559.1
7.5°	591.3	590.4	586.2	583.6	582.8	578.6	577.7	574.3	571.8	569.2	565.0
10°	615.8	609.0	604.0	599.7	598.0	593.0	588.7	587.0	582.8	576.9	573.5
12.5°	651.4	647.2	637.0	628.5	623.4	616.7	610.7	606.5	599.7	591.3	587.0
15°	714.9	701.4	689.5	676.8	666.6	655.6	641.2	630.2	618.4	604.0	593.0
17.5°	797.1	780.2	761.5	741.2	720.0	696.3	668.3	647.2	623.4	598.9	581.9
20°	897.9	866.6	840.3	801.3	762.4	725.1	681.0	643.8	609.9	577.7	553.1
22.5°	1011.4	964.0	910.6	851.3	788.6	731.0	669.2	618.4	569.2	529.4	501.5
25°	1141.0	1066.5	985.1	895.4	805.6	720.0	643.8	580.2	527.7	480.3	449.0
27.5°	1220.6	1119.0	1021.6	914.8	812.3	713.2	620.1	546.4	486.2	435.4	399.0
30°	1237.6	1135.1	1020.7	904.7	798.8	690.4	588.7	506.6	439.6	386.3	349.8
32.5°	1249.4	1130.8	1003.8	875.0	759.8	645.5	542.1	460.8	389.7	337.1	294.8
35°	1252.8	1114.8	971.6	828.4	707.3	590.4	487.1	401.5	339.7	288.0	249.9
37.5°	1247.7	1088.5	928.4	780.2	650.6	528.6	426.9	352.4	299.9	249.9	216.0
40°	1227.4	1055.5	889.4	733.6	593.0	466.7	376.1	311.7	266.8	228.7	202.5
42.5°	1201.2	1017.3	846.2	679.4	537.0	417.6	335.4	283.8	245.7	218.5	196.5
45°	1168.1	977.5	801.3	631.1	489.6	380.3	311.7	268.5	238.9	215.2	194.8
47.5°	1127.5	935.2	758.1	594.6	457.4	361.7	306.6	268.5	238.9	213.5	191.4
50°	1089.3	897.1	725.1	571.8	443.0	362.5	311.7	271.9	238.0	210.1	185.5
52.5°	1059.7	874.2	711.5	563.3	444.7	371.0	321.9	277.0	240.6	210.1	183.8
55°	1041.1	864.9	709.8	570.9	462.5	393.9	338.0	292.2	252.4	216.9	186.4
57.5°	1043.6	875.0	730.2	602.3	503.2	433.7	370.2	319.3	269.4	225.3	187.2
60°	1069.9	908.9	779.3	676.0	570.9	487.1	410.8	343.1	277.0	222.8	181.3
62.5°	1135.9	988.5	882.7	776.8	654.8	539.6	435.4	347.3	268.5	210.1	166.9
65°	1261.3	1131.7	1030.0	897.9	724.2	561.6	432.9	334.6	252.4	189.7	147.4
67.5°	1384.1	1246.9	1103.7	904.7	707.3	545.5	404.9	303.3	223.6	162.6	130.4
70°	1502.7	1324.8	1141.0	896.2	658.2	469.3	338.0	253.3	177.9	135.5	111.8
72.5°	1424.8	1219.8	1031.7	790.3	565.8	385.4	269.4	183.8	136.4	111.8	96.6
75°	1087.6	945.3	781.9	606.5	417.6	271.9	179.6	130.4	105.0	88.1	78.8
77.5°	782.7	676.8	543.0	398.1	260.9	172.0	122.0	93.2	77.9	66.1	61.0
80°	454.0	389.7	304.1	219.4	149.1	107.6	81.3	66.1	56.8	48.3	46.6
82.5°	283.8	227.0	160.9	108.4	76.2	59.3	47.4	40.7	33.9	29.6	25.4
85°	122.8	88.1	50.0	28.0	21.2	16.1	12.7	11.0	9.3	8.5	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: ENC-F02-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	554.8	553.1	552.3	552.3	550.6	550.6	548.9	549.8	548.9	547.2	546.4
5°	558.2	555.7	554.0	552.3	549.8	548.9	547.2	547.2	544.7	542.1	541.3
7.5°	562.5	559.1	556.5	553.1	549.8	548.1	544.7	543.0	540.4	537.9	537.0
10°	570.9	565.0	560.8	556.5	550.6	547.2	542.1	539.6	537.0	533.7	532.0
12.5°	580.2	572.6	566.7	556.5	550.6	544.7	539.6	534.5	529.4	526.0	525.2
15°	580.2	570.9	558.2	548.9	540.4	532.0	526.9	521.8	515.9	513.3	512.5
17.5°	565.8	549.8	537.9	527.7	520.1	513.3	508.2	505.7	500.6	495.5	493.8
20°	532.8	514.2	500.6	489.6	481.1	474.4	472.7	470.1	467.6	467.6	468.4
22.5°	478.6	458.3	446.4	434.5	425.2	421.8	422.7	425.2	426.1	425.2	431.2
25°	424.4	404.9	388.8	377.8	366.8	369.3	365.9	371.9	374.4	375.3	382.0
27.5°	371.9	350.7	333.7	324.4	319.3	316.0	313.4	321.0	322.7	328.7	334.6
30°	316.0	296.5	277.0	269.4	265.1	262.6	263.4	270.2	274.5	282.9	288.0
32.5°	264.3	240.6	226.2	216.0	211.8	210.9	211.8	216.9	221.9	232.9	240.6
35°	220.2	197.4	185.5	179.6	173.7	171.1	173.7	175.3	177.0	186.4	195.7
37.5°	194.8	178.7	169.4	163.5	159.3	156.7	156.7	155.9	156.7	158.4	162.6
40°	183.8	172.0	163.5	157.6	154.2	152.5	151.6	150.8	149.9	149.9	149.9
42.5°	179.6	166.0	157.6	152.5	150.8	150.8	150.8	149.9	148.2	146.5	145.7
45°	176.2	161.8	152.5	148.2	148.2	148.2	149.1	148.2	146.5	144.0	141.5
47.5°	170.3	155.9	147.4	144.0	144.0	144.0	144.8	144.0	142.3	140.6	138.1
50°	163.5	148.2	139.8	137.2	136.4	136.4	135.5	134.7	133.8	132.1	129.6
52.5°	159.3	143.2	135.5	133.8	132.1	131.3	129.6	128.8	127.1	126.2	123.7
55°	158.4	139.8	133.0	131.3	129.6	127.1	123.7	122.0	118.6	117.7	116.0
57.5°	155.9	136.4	128.8	124.5	120.3	117.7	114.4	112.7	111.0	109.3	107.6
60°	147.4	126.2	116.9	114.4	111.8	111.0	109.3	107.6	105.0	102.5	99.1
62.5°	131.3	113.5	107.6	106.7	105.9	104.2	102.5	100.0	98.3	94.9	91.5
65°	118.6	106.7	103.3	101.6	100.8	98.3	96.6	94.9	92.3	89.8	86.4
67.5°	107.6	99.1	97.4	94.9	94.0	92.3	89.8	88.1	85.6	83.0	79.6
70°	97.4	90.6	89.8	88.1	86.4	85.6	82.2	79.6	78.8	75.4	72.8
72.5°	86.4	82.2	80.5	78.8	77.1	76.2	74.5	72.8	71.2	67.8	64.4
75°	72.0	70.3	69.5	67.8	66.9	65.2	62.7	60.1	59.3	56.8	54.2
77.5°	57.6	55.9	55.9	54.2	51.7	49.1	46.6	43.2	43.2	43.2	41.5
80°	40.7	39.0	36.4	35.6	33.9	32.2	29.6	28.0	26.3	26.3	26.3
82.5°	23.7	22.9	21.2	18.6	16.9	16.1	13.6	11.9	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: P159964

CATALOG NUMBER: ENC-F02-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8
2.5°	546.4	545.5	543.8	540.4	539.6	538.7	539.6	539.6	538.7	539.6	540.4
5°	541.3	540.4	537.9	536.2	534.5	534.5	539.6	539.6	537.0	537.9	541.3
7.5°	537.0	537.0	535.4	534.5	535.4	537.9	542.1	545.5	544.7	549.8	551.4
10°	532.0	532.8	533.7	537.0	542.1	546.4	553.1	559.1	560.8	565.0	567.5
12.5°	526.9	530.3	534.5	541.3	548.1	554.8	562.5	569.2	570.1	574.3	577.7
15°	514.2	519.3	525.2	532.8	543.0	550.6	561.6	566.7	568.4	570.9	575.2
17.5°	494.7	497.2	501.5	509.9	521.0	531.1	543.8	552.3	557.4	560.8	562.5
20°	468.4	473.5	476.1	483.7	489.6	497.2	514.2	525.2	535.4	540.4	545.5
22.5°	432.0	437.9	443.9	451.5	454.9	460.0	476.1	493.0	508.2	518.4	524.3
25°	386.3	393.0	401.5	410.8	415.1	420.1	438.8	455.7	474.4	492.2	500.6
27.5°	340.5	349.0	357.5	368.5	375.3	381.2	397.3	413.4	432.9	449.8	458.3
30°	296.5	308.3	316.0	328.7	334.6	340.5	354.9	372.7	386.3	405.7	416.8
32.5°	250.7	259.2	273.6	288.0	294.8	300.7	314.3	329.5	341.4	360.9	376.9
35°	209.2	216.9	232.1	246.5	250.7	260.1	273.6	287.2	298.2	316.0	331.2
37.5°	170.3	183.0	194.8	205.8	215.2	221.9	234.6	246.5	252.4	269.4	285.5
40°	151.6	157.6	166.0	176.2	182.1	188.9	198.2	208.4	215.2	227.0	240.6
42.5°	144.8	144.8	147.4	152.5	160.1	163.5	172.0	177.0	186.4	191.4	203.3
45°	139.8	138.1	138.9	138.9	141.5	144.0	150.8	155.9	161.8	166.0	173.7
47.5°	135.5	132.1	131.3	129.6	128.8	130.4	135.5	139.8	142.3	145.7	148.2
50°	126.2	123.7	121.1	119.4	118.6	120.3	124.5	127.9	128.8	130.4	132.1
52.5°	121.1	117.7	115.2	112.7	112.7	114.4	117.7	120.3	121.1	122.0	123.7
55°	114.4	112.7	111.0	108.4	107.6	110.1	112.7	115.2	116.9	116.9	118.6
57.5°	105.9	104.2	105.9	105.0	104.2	105.9	109.3	111.8	112.7	112.7	113.5
60°	97.4	96.6	96.6	98.3	100.0	102.5	105.0	108.4	107.6	105.9	106.7
62.5°	89.8	88.9	89.8	92.3	94.9	97.4	100.8	103.3	100.8	99.1	99.1
65°	84.7	83.9	84.7	85.6	86.4	88.9	93.2	94.0	92.3	92.3	92.3
67.5°	77.9	77.1	76.2	77.1	77.9	78.8	82.2	83.0	83.0	83.0	83.0
70°	69.5	68.6	67.8	67.8	67.8	68.6	69.5	71.2	72.8	74.5	75.4
72.5°	60.1	58.4	58.4	58.4	56.8	57.6	58.4	61.8	63.5	65.2	66.9
75°	50.8	49.1	49.1	47.4	48.3	49.1	49.1	50.8	52.5	55.1	56.8
77.5°	39.8	39.8	39.8	39.0	39.0	39.8	40.7	40.7	42.4	44.9	47.4
80°	25.4	25.4	27.1	28.0	28.8	29.6	31.3	32.2	33.0	35.6	36.4
82.5°	9.3	10.2	11.0	11.0	13.6	16.9	17.8	20.3	22.0	24.6	24.6
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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DISTRIBUTION (continued):

CANDELA DISTRIBUTION

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	165°
549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	112.5°	21.2
541.3	543.8	543.0	542.1	543.0	544.7	543.8	544.7	545.5	547.2	546.4	115°	25.0
542.1	544.7	545.5	545.5	547.2	549.8	549.8	550.6	551.4	553.1	553.1	117.5°	29.5
554.0	559.9	559.9	560.8	563.3	565.8	566.7	567.5	566.7	566.7	566.7	120°	34.8
571.8	578.6	579.4	583.6	587.0	586.2	586.2	587.0	585.3	583.6	581.1	122.5°	40.9
581.1	587.0	588.7	593.0	598.0	598.9	601.4	603.1	601.4	597.2	593.0	125°	47.8
578.6	583.6	587.0	592.1	598.0	601.4	606.5	608.2	607.4	602.3	597.2	127.5°	55.3
567.5	573.5	577.7	584.5	591.3	596.3	601.4	604.0	604.0	599.7	596.3	130°	63.0
549.8	556.5	562.5	570.1	578.6	584.5	590.4	592.1	592.1	590.4	593.0	132.5°	70.5
531.1	538.7	545.5	553.1	564.2	570.1	576.9	581.9	584.5	587.9	598.9	135°	77.9
507.4	510.8	519.3	527.7	543.0	553.1	567.5	581.1	594.6	609.9	631.9	137.5°	85.3
465.9	471.8	482.0	493.8	509.1	527.7	554.0	580.2	604.8	627.7	654.8	140°	92.5
431.2	442.2	453.2	466.7	482.8	500.6	531.1	565.0	594.6	621.8	651.4	142.5°	99.2
393.9	407.4	421.8	439.6	454.9	471.0	496.4	533.7	569.2	599.7	631.1	145°	104.9
350.7	365.1	379.5	398.1	414.2	434.5	457.4	493.8	534.5	569.2	606.5	147.5°	110.1
304.1	316.8	332.9	349.8	368.5	392.2	416.8	450.6	493.0	530.3	572.6	150°	115.1
260.1	273.6	289.7	308.3	327.0	352.4	380.3	412.5	451.5	491.3	536.2	152.5°	119.7
218.5	236.3	253.3	271.9	291.4	315.1	344.8	379.5	418.5	460.8	508.2	155°	123.7
183.8	197.4	215.2	230.4	251.6	274.5	304.9	343.9	388.8	433.7	483.7	157.5°	127.0
153.3	161.8	177.0	195.7	215.2	238.9	264.3	303.3	349.0	398.1	454.0	160°	130.3
134.7	138.9	149.9	166.9	185.5	209.2	231.3	265.1	310.9	359.2	416.8	162.5°	133.5
125.4	127.1	133.0	145.7	163.5	184.7	208.4	237.2	277.8	325.3	380.3	165°	136.0
120.3	121.1	122.8	132.1	147.4	166.9	190.6	213.5	249.9	294.8	348.1	167.5°	137.1
114.4	115.2	116.0	121.1	132.1	149.1	169.4	188.1	221.1	260.9	311.7	170°	137.4
108.4	110.1	111.8	113.5	121.1	132.1	147.4	163.5	186.4	221.1	262.6	172.5°	138.6
100.8	102.5	105.0	106.7	109.3	116.0	125.4	135.5	147.4	172.0	205.8	175°	140.5
94.0	95.7	96.6	97.4	99.1	100.8	104.2	106.7	112.7	127.1	150.8	177.5°	141.1
84.7	86.4	86.4	87.2	88.1	88.1	89.8	90.6	92.3	96.6	106.7	180°	140.8
77.1	77.9	78.8	79.6	79.6	79.6	78.8	79.6	78.8	78.8	83.0		
67.8	68.6	69.5	70.3	71.2	72.0	72.8	72.8	72.0	70.3	70.3		
57.6	57.6	59.3	60.1	61.0	63.5	65.2	63.5	63.5	62.7	62.7		
48.3	50.0	50.8	50.8	52.5	55.1	56.8	55.9	53.4	53.4	54.2		
37.3	38.1	39.0	39.8	40.7	43.2	45.7	46.6	44.9	45.7	45.7		
24.6	25.4	27.1	28.0	28.8	31.3	33.9	36.4	35.6	37.3	35.6		
11.0	12.7	13.6	13.6	16.1	18.6	22.0	24.6	28.0	28.8	26.3		
0.0	0.8	0.8	0.8	3.4	5.9	11.0	16.9	22.9	17.8	13.6		
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°	549.8	549.8
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	546.4	547.2
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	554.0	554.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	565.0	565.0
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	579.4	576.9
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	587.9	583.6
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	593.0	588.7
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	594.6	594.6
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	598.9	605.7
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	613.3	630.2
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	655.6	679.4
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	688.7	720.0
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	691.2	730.2
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	676.0	718.3
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	653.1	701.4
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	625.1	679.4
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	593.0	648.9
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	563.3	620.9
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	542.1	603.1
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	519.3	584.5
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	482.8	559.9
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	443.9	521.0
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	408.3	482.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	370.2	444.7
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	320.2	394.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	255.8	326.1
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	183.8	243.1
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	124.5	165.2
										70°	90.6	112.7
										72.5°	73.7	84.7
										75°	65.2	71.2
										77.5°	57.6	61.0
										80°	45.7	49.1
										82.5°	35.6	39.0
										85°	26.3	28.8
										87.5°	11.9	11.9
										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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tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	549.8	112.5°	21.2	21.2	21.2
548.1	548.9	548.9	550.6	551.4	553.1	554.0	554.0	554.0	115°	25.0	25.0	25.0
555.7	556.5	557.4	559.9	560.8	563.3	565.8	566.7	569.2	117.5°	29.5	29.5	29.5
565.0	567.5	568.4	570.1	571.8	576.0	579.4	581.1	583.6	120°	34.8	34.8	34.8
576.0	576.9	576.9	578.6	582.8	585.3	589.6	597.2	602.3	122.5°	40.9	40.9	40.9
583.6	581.1	582.8	584.5	588.7	594.6	601.4	612.4	622.6	125°	47.8	47.8	47.8
588.7	588.7	593.0	596.3	604.0	613.3	626.0	641.2	656.5	127.5°	55.3	55.3	55.3
598.0	600.6	609.9	616.7	630.2	643.8	659.9	681.0	703.9	130°	63.0	63.0	63.0
615.0	621.8	631.9	642.9	656.5	676.8	703.9	731.0	761.5	132.5°	70.5	70.5	70.5
642.1	657.3	674.3	687.8	703.9	732.7	762.4	796.3	834.4	135°	77.9	77.9	77.9
701.4	718.3	743.7	766.6	789.5	831.0	869.1	908.1	959.7	137.5°	85.3	85.3	85.3
753.1	780.2	820.0	853.0	884.3	934.3	976.7	1041.1	1096.1	140°	92.5	92.5	92.5
775.1	819.1	869.1	916.5	975.0	1024.1	1086.8	1163.9	1235.9	142.5°	99.2	99.2	99.2
770.0	823.4	886.0	950.4	1019.9	1098.7	1170.7	1257.1	1351.1	145°	104.9	104.9	104.9
758.1	818.3	891.1	968.2	1051.2	1149.5	1240.1	1347.7	1464.6	147.5°	110.1	110.1	110.1
743.7	814.0	895.4	986.0	1090.2	1207.1	1324.0	1464.6	1610.3	150°	115.1	115.1	115.1
721.7	802.2	900.4	1013.1	1141.0	1278.2	1431.6	1599.3	1756.0	152.5°	119.7	119.7	119.7
697.1	787.8	906.4	1050.4	1211.3	1381.6	1558.6	1729.7	1908.5	155°	123.7	123.7	123.7
681.0	783.5	921.6	1093.6	1280.8	1478.1	1675.5	1862.7	2057.5	157.5°	127.0	127.0	127.0
671.7	786.1	937.7	1125.8	1332.4	1550.1	1759.4	1974.5	2178.7	160°	130.3	130.3	130.3
663.3	792.9	952.1	1146.1	1365.5	1596.7	1825.4	2057.5	2283.7	162.5°	133.5	133.5	133.5
641.2	790.3	957.2	1152.0	1382.4	1627.2	1871.2	2116.0	2356.6	165°	136.0	136.0	136.0
603.1	766.6	946.2	1146.1	1387.5	1645.0	1900.8	2159.2	2398.1	167.5°	137.1	137.1	137.1
552.3	718.3	907.2	1120.7	1369.7	1636.6	1911.0	2187.1	2421.8	170°	137.4	137.4	137.4
495.5	642.9	838.6	1062.2	1312.1	1584.9	1866.1	2160.9	2394.7	172.5°	138.6	138.6	138.6
417.6	548.9	745.4	963.1	1207.1	1478.1	1733.1	2055.0	2293.0	175°	140.5	140.5	140.5
319.3	436.2	605.7	827.6	1075.8	1313.0	1544.2	1866.1	2130.4	177.5°	141.1	141.1	141.1
220.2	310.9	453.2	647.2	879.3	1097.8	1328.2	1628.9	1937.3	180°	140.8	140.8	140.8
143.2	201.6	299.9	449.0	632.8	834.4	1025.8	1301.1	1631.5				
101.6	128.8	183.0	277.0	416.8	572.6	729.3	915.7	1230.8				
80.5	94.0	112.7	160.9	244.0	356.6	482.8	600.6	864.0				
65.2	71.2	80.5	99.1	144.0	205.8	284.6	378.6	537.0				
52.5	56.8	62.7	70.3	88.9	118.6	165.2	208.4	306.6				
42.4	47.4	49.1	50.0	57.6	67.8	87.2	117.7	175.3				
30.5	32.2	32.2	33.0	34.7	37.3	50.0	86.4	127.9				
11.9	10.2	11.0	8.5	9.3	10.2	16.1	18.6	29.6				
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				
0.5	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°	549.8	549.8	549.8	549.8
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	556.5	556.5	555.7	555.7
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	570.9	573.5	571.8	574.3
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	589.6	591.3	593.0	596.3
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	609.0	615.0	620.9	623.4
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	631.9	642.9	654.8	660.7
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	671.7	688.7	702.2	711.5
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	724.2	747.1	770.0	786.1
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	791.2	824.2	856.4	876.7
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	875.9	914.8	950.4	989.4
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	992.8	1047.0	1109.7	1143.6
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1159.6	1233.3	1277.4	1352.8
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1318.9	1409.5	1516.3	1620.5
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1453.6	1586.6	1743.3	1901.7
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1595.0	1763.6	1944.9	2148.2
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1764.5	1939.0	2134.6	2357.4
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	1918.6	2117.7	2357.4	2563.3
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2088.9	2300.7	2570.9	2808.9
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	2254.1	2475.2	2770.8	3031.7
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2398.9	2620.9	2936.0	3207.9
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	2515.0	2762.3	3069.8	3330.7
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2605.6	2867.4	3171.5	3415.4
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	2653.0	2917.3	3202.8	3451.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2659.8	2913.9	3176.5	3418.8
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	2595.4	2820.8	3071.5	3324.8
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2451.4	2627.6	2865.7	3116.4
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	2266.8	2382.0	2540.4	2786.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2085.5	2161.7	2244.8	2426.0
								70°	1806.8	1870.3	1953.4	2066.0
								72.5°	1405.3	1489.2	1548.5	1657.7
								75°	1056.3	1104.6	1190.1	1290.9
								77.5°	742.9	792.0	889.4	1004.6
								80°	498.9	532.8	593.0	692.1
								82.5°	305.8	344.8	395.6	481.1
								85°	205.0	266.0	331.2	395.6
								87.5°	86.4	145.7	184.7	194.0
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8



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CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
549.8	549.8	549.8	549.8	549.8	549.8	549.8	112.5°	21.2	21.2	21.2	21.2	21.2
558.2	557.4	559.1	559.1	558.2	558.2	560.8	115°	25.0	25.0	25.0	25.0	25.0
576.0	576.9	578.6	576.9	580.2	576.0	576.9	117.5°	29.5	29.5	29.5	29.5	29.5
600.6	601.4	604.0	603.1	605.7	603.1	599.7	120°	34.8	34.8	34.8	34.8	34.8
631.9	633.6	633.6	637.8	642.1	637.0	631.1	122.5°	40.9	40.9	40.9	40.9	40.9
668.3	674.3	671.7	680.2	684.4	681.0	676.8	125°	47.8	47.8	47.8	47.8	47.8
718.3	730.2	728.5	744.6	750.5	748.0	748.8	127.5°	55.3	55.3	55.3	55.3	55.3
792.9	809.8	812.3	837.8	853.9	851.3	847.1	130°	63.0	63.0	63.0	63.0	63.0
879.3	923.3	933.5	955.5	973.3	980.1	979.2	132.5°	70.5	70.5	70.5	70.5	70.5
1025.8	1058.0	1080.9	1120.7	1136.8	1152.0	1147.8	135°	77.9	77.9	77.9	77.9	77.9
1192.7	1222.3	1273.2	1324.0	1340.1	1354.5	1373.1	137.5°	85.3	85.3	85.3	85.3	85.3
1406.1	1449.3	1529.8	1598.4	1637.4	1625.5	1619.6	140°	92.5	92.5	92.5	92.5	92.5
1695.0	1803.4	1862.7	1918.6	1944.0	1906.8	1859.3	142.5°	99.2	99.2	99.2	99.2	99.2
2040.6	2167.7	2204.9	2232.0	2183.8	2132.9	1994.0	145°	104.9	104.9	104.9	104.9	104.9
2293.9	2418.4	2495.5	2524.3	2420.9	2270.2	2082.1	147.5°	110.1	110.1	110.1	110.1	110.1
2522.6	2648.8	2682.7	2695.4	2556.5	2361.6	2178.7	150°	115.1	115.1	115.1	115.1	115.1
2765.7	2871.6	2891.1	2884.3	2699.6	2469.2	2298.1	152.5°	119.7	119.7	119.7	119.7	119.7
2986.8	3095.2	3077.4	3047.8	2837.7	2604.8	2415.9	155°	123.7	123.7	123.7	123.7	123.7
3196.9	3276.5	3244.3	3170.6	2968.2	2708.9	2508.2	157.5°	127.0	127.0	127.0	127.0	127.0
3337.5	3404.4	3369.7	3276.5	3057.9	2779.3	2559.0	160°	130.3	130.3	130.3	130.3	130.3
3444.2	3495.0	3474.7	3340.0	3110.5	2822.5	2581.9	162.5°	133.5	133.5	133.5	133.5	133.5
3497.6	3547.6	3535.7	3351.9	3117.2	2829.2	2570.9	165°	136.0	136.0	136.0	136.0	136.0
3517.1	3573.8	3532.3	3307.8	3072.3	2803.8	2532.8	167.5°	137.1	137.1	137.1	137.1	137.1
3501.0	3527.2	3466.2	3224.0	2980.9	2725.0	2478.5	170°	137.4	137.4	137.4	137.4	137.4
3441.7	3423.0	3339.2	3078.3	2851.3	2615.8	2418.4	172.5°	138.6	138.6	138.6	138.6	138.6
3275.6	3227.4	3159.6	2909.7	2678.5	2443.0	2325.2	175°	140.5	140.5	140.5	140.5	140.5
2933.4	2919.9	2888.5	2703.0	2473.5	2249.0	2173.6	177.5°	141.1	141.1	141.1	141.1	141.1
2494.6	2481.1	2485.3	2360.0	2193.9	1975.4	1977.1	180°	140.8	140.8	140.8	140.8	140.8
2138.9	2064.3	1976.2	1841.5	1745.0	1715.3	1811.0						
1721.3	1680.6	1608.6	1490.9	1381.6	1419.7	1634.0						
1330.8	1306.2	1358.7	1372.3	1329.9	1304.5	1377.3						
1090.2	1143.6	1227.4	1334.1	1344.3	1307.0	1169.0						
830.1	969.1	1085.1	1229.1	1213.9	1133.4	982.6						
581.1	715.8	825.1	946.2	941.9	868.3	793.7						
444.7	487.1	528.6	655.6	704.8	648.0	566.7						
210.1	211.8	255.0	314.3	337.1	384.6	379.5						
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						
0.5	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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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°	549.8	549.8	549.8	549.8	549.8	549.8
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	561.6	560.8	560.8	560.8	561.6	560.8
29.5	29.5	29.5	29.5	29.5	29.5	5°	578.6	576.9	576.0	576.0	575.2	575.2
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	600.6	597.2	597.2	594.6	593.8	591.3
40.9	40.9	40.9	40.9	40.9	40.9	10°	630.2	626.8	626.0	619.2	619.2	613.3
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	673.4	673.4	673.4	665.0	663.3	653.1
55.3	55.3	55.3	55.3	55.3	55.3	15°	748.0	741.2	747.1	732.7	731.9	718.3
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	848.8	848.8	836.9	830.1	825.9	806.4
70.5	70.5	70.5	70.5	70.5	70.5	20°	982.6	983.5	963.1	944.5	936.0	914.0
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1152.9	1136.8	1111.4	1097.8	1084.3	1047.8
85.3	85.3	85.3	85.3	85.3	85.3	25°	1376.5	1369.7	1324.8	1275.7	1255.4	1200.3
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1595.9	1581.5	1509.5	1425.6	1374.0	1298.6
99.2	99.2	99.2	99.2	99.2	99.2	30°	1789.0	1694.2	1608.6	1507.8	1429.0	1335.0
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1889.8	1770.4	1645.9	1562.9	1463.7	1359.6
110.1	110.1	110.1	110.1	110.1	110.1	35°	1967.8	1839.8	1716.2	1608.6	1496.8	1379.0
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2066.9	1932.2	1795.8	1667.9	1531.5	1393.4
119.7	119.7	119.7	119.7	119.7	119.7	40°	2177.0	2022.8	1854.2	1699.2	1545.9	1388.4
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2268.5	2082.1	1883.9	1709.4	1540.8	1367.2
127.0	127.0	127.0	127.0	127.0	127.0	45°	2319.3	2106.7	1886.4	1698.4	1520.5	1340.9
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2343.0	2107.5	1869.5	1673.8	1493.4	1303.6
133.5	133.5	133.5	133.5	133.5	133.5	50°	2340.5	2086.3	1837.3	1640.8	1462.9	1264.7
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2315.1	2051.6	1800.0	1614.5	1436.6	1231.6
137.1	137.1	137.1	137.1	137.1	137.1	55°	2276.1	2014.3	1762.8	1596.7	1414.6	1204.5
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2232.0	1982.2	1735.7	1593.3	1401.9	1199.5
138.6	138.6	138.6	138.6	138.6	138.6	60°	2212.6	1985.5	1752.6	1569.6	1395.1	1210.5
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2199.9	2017.7	1787.3	1585.7	1406.1	1257.1
141.1	141.1	141.1	141.1	141.1	141.1	65°	2148.2	2062.6	1840.7	1643.3	1485.8	1366.3
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2086.3	2075.3	1861.9	1677.2	1576.4	1508.6
						70°	2022.0	2061.8	1892.4	1766.2	1710.2	1683.1
						72.5°	1918.6	1964.4	1806.8	1731.4	1714.5	1695.0
						75°	1600.1	1608.6	1488.3	1446.8	1476.5	1430.7
						77.5°	1150.3	1172.4	1094.4	1105.4	1202.0	1102.9
						80°	852.2	765.8	716.6	749.7	842.0	700.5
						82.5°	702.2	568.4	482.0	526.9	562.5	413.4
						85°	540.4	433.7	356.6	288.0	274.5	177.0
						87.5°	424.4	313.4	174.5	98.3	66.1	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



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CATALOG NUMBER: ENC-F02-LED-E1-SLR-7050-ULG

CANDELA DISTRIBUTION (continued):

360°		330°	335°	340°	345°	350°	355°	360°
549.8	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
561.6	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
575.2	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
591.3	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
615.8	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
651.4	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
714.9	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
797.1	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
897.9	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
1011.4	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
1141.0	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1220.6	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1237.6	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1249.4	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
1252.8	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
1247.7	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
1227.4	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
1201.2	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
1168.1	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
1127.5	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
1089.3	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
1059.7	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
1041.1	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
1043.6	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
1069.9	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
1135.9	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
1261.3	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
1384.1	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
1502.7								
1424.8								
1087.6								
782.7								
454.0								
283.8								
122.8								
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



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