

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: P160086

Luminaire Tested: **ENT-F02-LED-E1-SLR-8030-ULG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P160086  
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-8030-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3708 lumens  
Efficiency: N/A  
Efficacy: 64.7 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 - G1

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

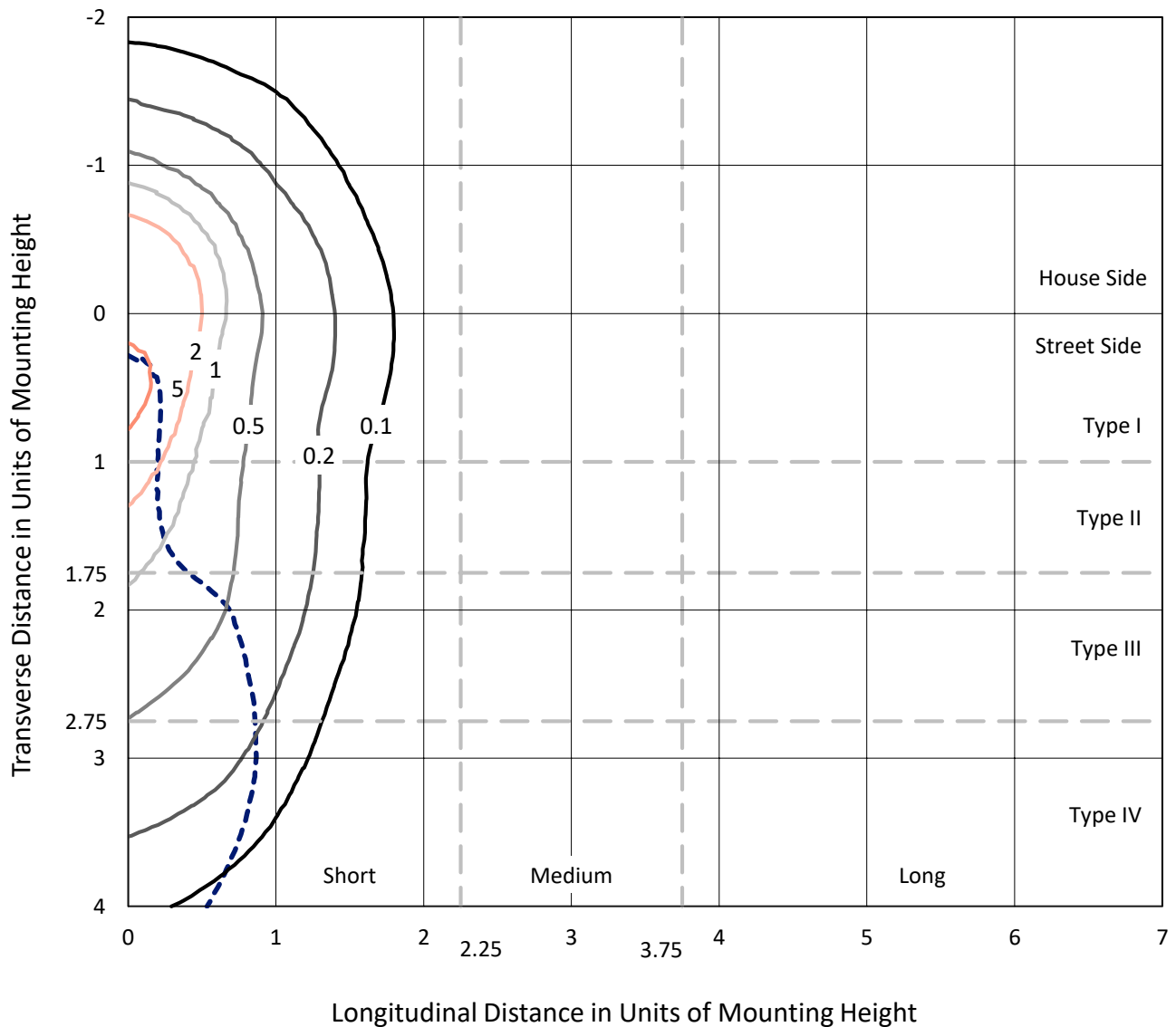


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### Iso-Footcandle Lines of Horizontal Illumination

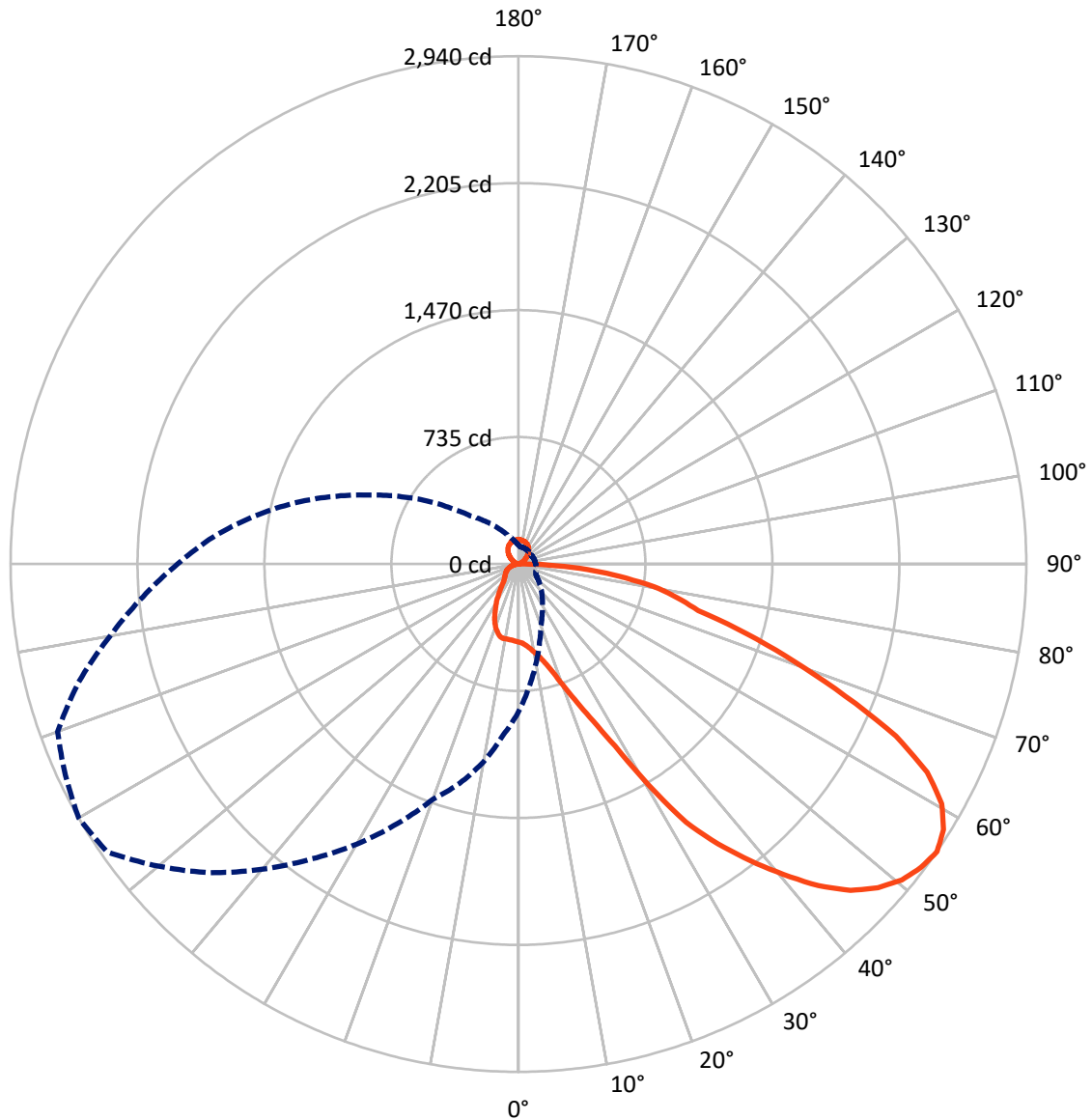
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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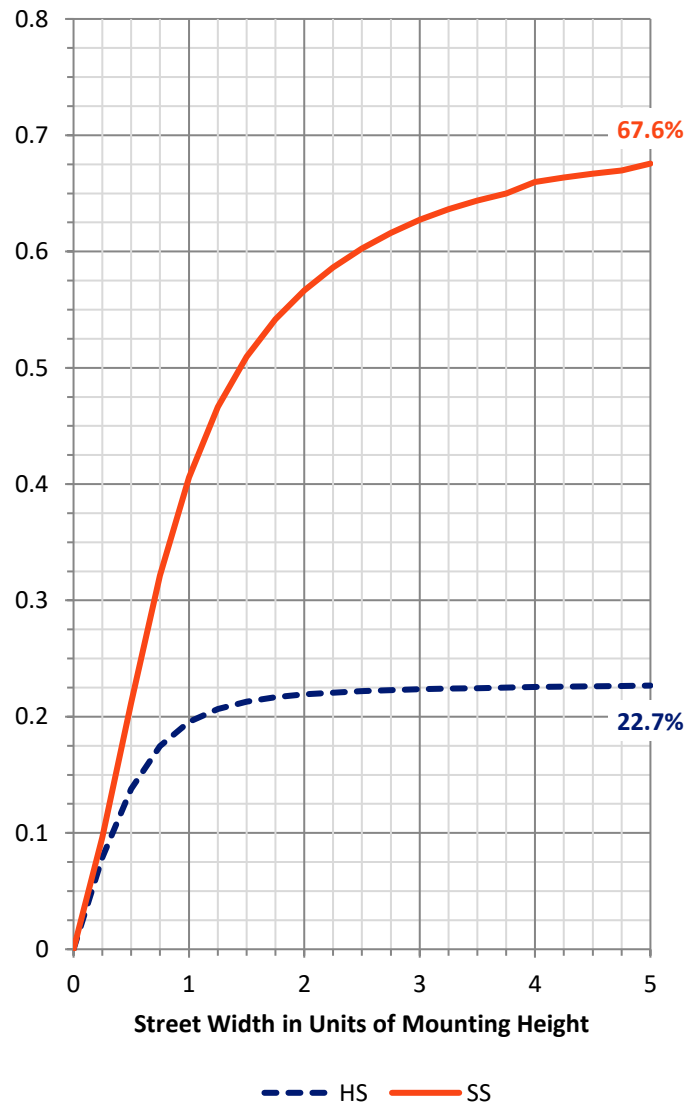
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	848.0	157.7	1005.7
	% Fixture	22.9	4.3	27.1
<b>Street Side</b>	Lumens	2544.6	157.7	2702.3
	% Fixture	68.6	4.3	72.9
<b>Total</b>	Lumens	3392.5	315.5	3708.0
	% Fixture	91.5	8.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.5	1.2
10°-20°	146.4	3.9
20°-30°	284.1	7.7
30°-40°	446.5	12.0
40°-50°	596.8	16.1
50°-60°	700.2	18.9
60°-70°	664.3	17.9
70°-80°	401.0	10.8
80°-90°	108.7	2.9
90°-100°	1.3	0.0
100°-110°	12.3	0.3
110°-120°	25.2	0.7
120°-130°	43.0	1.2
130°-140°	60.0	1.6
140°-150°	65.4	1.8
150°-160°	56.9	1.5
160°-170°	38.2	1.0
170°-180°	13.3	0.4
0°-90°	3392.5	91.5
0°-180°	3708.0	100.0



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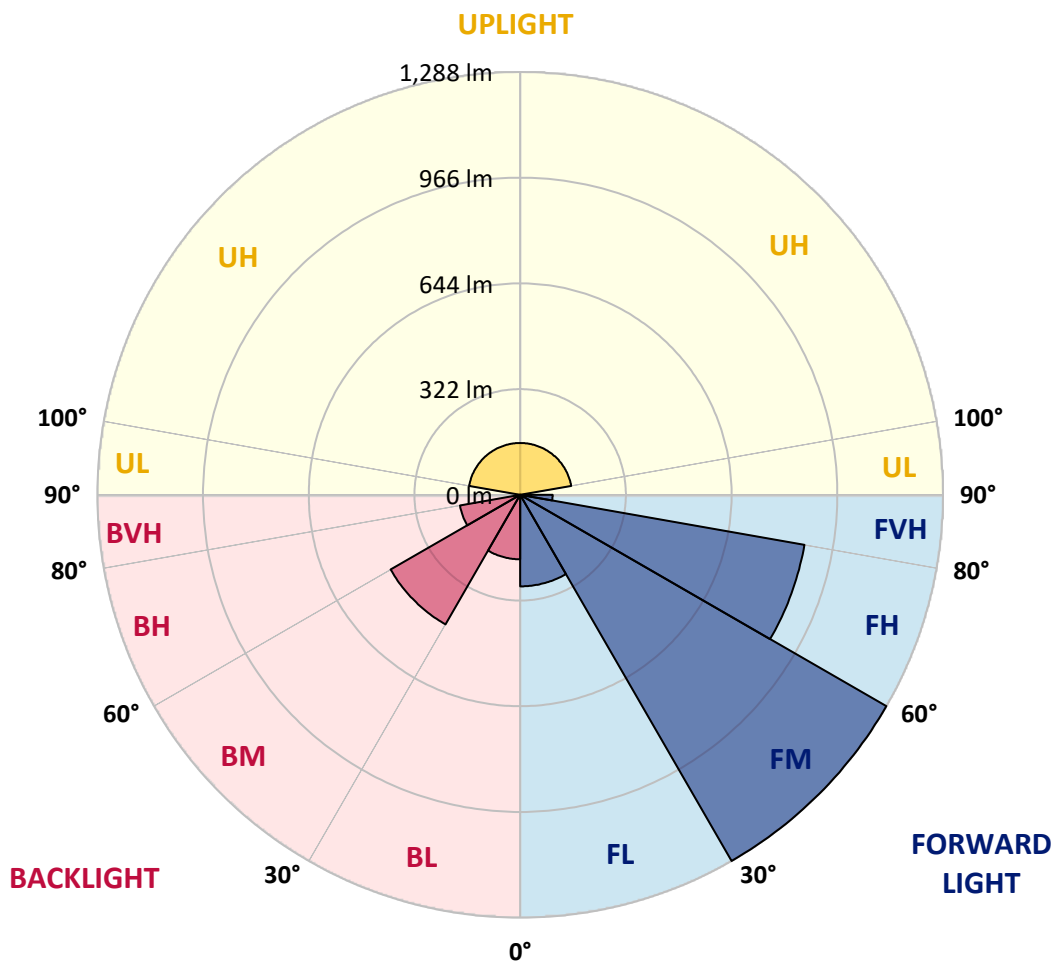
CATALOG NUMBER: ENT-F02-LED-E1-SLR-8030-ULG

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.8	7.5			
FM	(30°-60°)	1287.9	34.7			
FH	(60°-80°)	879.1	23.7			G1/1800
FVH	(80°-90°)	98.8	2.7			G1/100
BL	(0°-30°)	196.2	5.3	B1/500		
BM	(30°-60°)	455.7	12.3	B1/1000		
BH	(60°-80°)	186.2	5.0	B1/500		G1/500
BVH	(80°-90°)	9.9	0.3			G0/10
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	4.3		U3/500	

**BUG Rating: B1-U3-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2
2.5°	461.9	465.4	461.2	461.9	460.5	459.1	459.8	459.1	457.8	457.8	456.4
5°	473.1	473.8	471.0	470.3	468.9	466.8	467.5	465.4	464.0	462.6	459.8
7.5°	486.3	485.6	482.1	480.1	479.4	475.9	475.2	472.4	470.3	468.2	464.7
10°	506.5	501.0	496.8	493.3	491.9	487.7	484.2	482.8	479.4	474.5	471.7
12.5°	535.8	532.3	523.9	517.0	512.8	507.2	502.3	498.9	493.3	486.3	482.8
15°	588.0	576.9	567.1	556.7	548.3	539.3	527.4	518.4	508.6	496.8	487.7
17.5°	655.6	641.7	626.4	609.6	592.2	572.7	549.7	532.3	512.8	492.6	478.7
20°	738.5	712.8	691.2	659.1	627.1	596.4	560.2	529.5	501.6	475.2	455.0
22.5°	831.9	792.9	749.0	700.2	648.7	601.3	550.4	508.6	468.2	435.5	412.5
25°	938.5	877.2	810.3	736.4	662.6	592.2	529.5	477.3	434.1	395.0	369.3
27.5°	1004.0	920.4	840.3	752.5	668.2	586.7	510.0	449.4	399.9	358.1	328.2
30°	1017.9	933.6	839.6	744.1	657.0	567.8	484.2	416.6	361.6	317.7	287.8
32.5°	1027.7	930.1	825.6	719.7	625.0	530.9	445.9	379.0	320.5	277.3	242.5
35°	1030.5	916.9	799.2	681.4	581.8	485.6	400.6	330.3	279.4	236.9	205.5
37.5°	1026.3	895.3	763.6	641.7	535.1	434.8	351.2	289.8	246.6	205.5	177.7
40°	1009.6	868.1	731.6	603.4	487.7	383.9	309.4	256.4	219.5	188.1	166.5
42.5°	988.0	836.8	696.0	558.8	441.7	343.5	275.9	233.4	202.1	179.8	161.6
45°	960.8	804.0	659.1	519.1	402.7	312.8	256.4	220.9	196.5	177.0	160.2
47.5°	927.4	769.2	623.6	489.1	376.2	297.5	252.2	220.9	196.5	175.6	157.5
50°	896.0	737.8	596.4	470.3	364.4	298.2	256.4	223.7	195.8	172.8	152.6
52.5°	871.6	719.0	585.3	463.3	365.8	305.2	264.8	227.8	197.9	172.8	151.2
55°	856.3	711.4	583.9	469.6	380.4	324.0	278.0	240.4	207.6	178.4	153.3
57.5°	858.4	719.7	600.6	495.4	413.9	356.7	304.5	262.7	221.6	185.3	154.0
60°	880.0	747.6	641.0	556.0	469.6	400.6	337.9	282.2	227.8	183.2	149.1
62.5°	934.3	813.1	726.0	638.9	538.6	443.8	358.1	285.7	220.9	172.8	137.3
65°	1037.4	930.8	847.2	738.5	595.7	461.9	356.0	275.2	207.6	156.1	121.2
67.5°	1138.5	1025.6	907.8	744.1	581.8	448.7	333.0	249.4	183.9	133.8	107.3
70°	1236.0	1089.7	938.5	737.1	541.4	386.0	278.0	208.3	146.3	111.5	92.0
72.5°	1171.9	1003.3	848.6	650.1	465.4	317.0	221.6	151.2	112.2	92.0	79.4
75°	894.6	777.6	643.1	498.9	343.5	223.7	147.7	107.3	86.4	72.5	64.8
77.5°	643.8	556.7	446.6	327.5	214.6	141.4	100.3	76.6	64.1	54.3	50.2
80°	373.5	320.5	250.1	180.5	122.6	88.5	66.9	54.3	46.7	39.7	38.3
82.5°	233.4	186.7	132.4	89.2	62.7	48.8	39.0	33.4	27.9	24.4	20.9
85°	101.0	72.5	41.1	23.0	17.4	13.2	10.5	9.1	7.7	7.0	5.6
87.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.2	4.2	4.2	4.2	3.5
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



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**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°	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2
2.5°	456.4	455.0	454.3	454.3	452.9	452.9	451.5	452.2	451.5	450.1	449.4
5°	459.1	457.1	455.7	454.3	452.2	451.5	450.1	450.1	448.0	445.9	445.2
7.5°	462.6	459.8	457.8	455.0	452.2	450.8	448.0	446.6	444.5	442.4	441.7
10°	469.6	464.7	461.2	457.8	452.9	450.1	445.9	443.8	441.7	438.9	437.5
12.5°	477.3	471.0	466.1	457.8	452.9	448.0	443.8	439.6	435.5	432.7	432.0
15°	477.3	469.6	459.1	451.5	444.5	437.5	433.4	429.2	424.3	422.2	421.5
17.5°	465.4	452.2	442.4	434.1	427.8	422.2	418.0	416.0	411.8	407.6	406.2
20°	438.2	422.9	411.8	402.7	395.7	390.2	388.8	386.7	384.6	384.6	385.3
22.5°	393.7	376.9	367.2	357.4	349.8	347.0	347.7	349.8	350.5	349.8	354.6
25°	349.1	333.0	319.8	310.7	301.7	303.8	301.0	305.9	308.0	308.7	314.2
27.5°	305.9	288.4	274.5	266.8	262.7	259.9	257.8	264.1	265.5	270.3	275.2
30°	259.9	243.9	227.8	221.6	218.1	216.0	216.7	222.3	225.7	232.7	236.9
32.5°	217.4	197.9	186.0	177.7	174.2	173.5	174.2	178.4	182.5	191.6	197.9
35°	181.2	162.3	152.6	147.7	142.8	140.7	142.8	144.2	145.6	153.3	160.9
37.5°	160.2	147.0	139.3	134.5	131.0	128.9	128.9	128.2	128.9	130.3	133.8
40°	151.2	141.4	134.5	129.6	126.8	125.4	124.7	124.0	123.3	123.3	123.3
42.5°	147.7	136.6	129.6	125.4	124.0	124.0	124.0	123.3	121.9	120.5	119.8
45°	144.9	133.1	125.4	121.9	121.9	121.9	122.6	121.9	120.5	118.4	116.4
47.5°	140.0	128.2	121.2	118.4	118.4	118.4	119.1	118.4	117.1	115.7	113.6
50°	134.5	121.9	115.0	112.9	112.2	112.2	111.5	110.8	110.1	108.7	106.6
52.5°	131.0	117.7	111.5	110.1	108.7	108.0	106.6	105.9	104.5	103.8	101.7
55°	130.3	115.0	109.4	108.0	106.6	104.5	101.7	100.3	97.5	96.8	95.5
57.5°	128.2	112.2	105.9	102.4	98.9	96.8	94.1	92.7	91.3	89.9	88.5
60°	121.2	103.8	96.1	94.1	92.0	91.3	89.9	88.5	86.4	84.3	81.5
62.5°	108.0	93.4	88.5	87.8	87.1	85.7	84.3	82.2	80.8	78.0	75.2
65°	97.5	87.8	85.0	83.6	82.9	80.8	79.4	78.0	75.9	73.9	71.1
67.5°	88.5	81.5	80.1	78.0	77.3	75.9	73.9	72.5	70.4	68.3	65.5
70°	80.1	74.6	73.9	72.5	71.1	70.4	67.6	65.5	64.8	62.0	59.9
72.5°	71.1	67.6	66.2	64.8	63.4	62.7	61.3	59.9	58.5	55.7	53.0
75°	59.2	57.8	57.1	55.7	55.0	53.6	51.6	49.5	48.8	46.7	44.6
77.5°	47.4	46.0	46.0	44.6	42.5	40.4	38.3	35.5	35.5	35.5	34.1
80°	33.4	32.0	30.0	29.3	27.9	26.5	24.4	23.0	21.6	21.6	21.6
82.5°	19.5	18.8	17.4	15.3	13.9	13.2	11.1	9.8	9.1	7.7	7.7
85°	4.2	4.2	2.8	2.8	2.1	2.1	2.1	1.4	1.4	0.7	0.7
87.5°	3.5	3.5	3.5	2.8	2.8	2.8	2.1	2.1	2.1	1.4	1.4
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-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°	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2
2.5°	449.4	448.7	447.3	444.5	443.8	443.1	443.8	443.8	443.1	443.8	444.5
5°	445.2	444.5	442.4	441.0	439.6	439.6	443.8	443.8	441.7	442.4	445.2
7.5°	441.7	441.7	440.3	439.6	440.3	442.4	445.9	448.7	448.0	452.2	453.6
10°	437.5	438.2	438.9	441.7	445.9	449.4	455.0	459.8	461.2	464.7	466.8
12.5°	433.4	436.2	439.6	445.2	450.8	456.4	462.6	468.2	468.9	472.4	475.2
15°	422.9	427.1	432.0	438.2	446.6	452.9	461.9	466.1	467.5	469.6	473.1
17.5°	406.9	409.0	412.5	419.4	428.5	436.9	447.3	454.3	458.5	461.2	462.6
20°	385.3	389.5	391.6	397.8	402.7	409.0	422.9	432.0	440.3	444.5	448.7
22.5°	355.3	360.2	365.1	371.4	374.1	378.3	391.6	405.5	418.0	426.4	431.3
25°	317.7	323.3	330.3	337.9	341.4	345.6	360.9	374.8	390.2	404.8	411.8
27.5°	280.1	287.1	294.0	303.1	308.7	313.5	326.8	340.0	356.0	370.0	376.9
30°	243.9	253.6	259.9	270.3	275.2	280.1	291.9	306.6	317.7	333.7	342.8
32.5°	206.2	213.2	225.0	236.9	242.5	247.3	258.5	271.0	280.8	296.8	310.0
35°	172.1	178.4	190.9	202.8	206.2	213.9	225.0	236.2	245.3	259.9	272.4
37.5°	140.0	150.5	160.2	169.3	177.0	182.5	193.0	202.8	207.6	221.6	234.8
40°	124.7	129.6	136.6	144.9	149.8	155.4	163.0	171.4	177.0	186.7	197.9
42.5°	119.1	119.1	121.2	125.4	131.7	134.5	141.4	145.6	153.3	157.5	167.2
45°	115.0	113.6	114.3	114.3	116.4	118.4	124.0	128.2	133.1	136.6	142.8
47.5°	111.5	108.7	108.0	106.6	105.9	107.3	111.5	115.0	117.1	119.8	121.9
50°	103.8	101.7	99.6	98.2	97.5	98.9	102.4	105.2	105.9	107.3	108.7
52.5°	99.6	96.8	94.8	92.7	92.7	94.1	96.8	98.9	99.6	100.3	101.7
55°	94.1	92.7	91.3	89.2	88.5	90.6	92.7	94.8	96.1	96.1	97.5
57.5°	87.1	85.7	87.1	86.4	85.7	87.1	89.9	92.0	92.7	92.7	93.4
60°	80.1	79.4	79.4	80.8	82.2	84.3	86.4	89.2	88.5	87.1	87.8
62.5°	73.9	73.2	73.9	75.9	78.0	80.1	82.9	85.0	82.9	81.5	81.5
65°	69.7	69.0	69.7	70.4	71.1	73.2	76.6	77.3	75.9	75.9	75.9
67.5°	64.1	63.4	62.7	63.4	64.1	64.8	67.6	68.3	68.3	68.3	68.3
70°	57.1	56.4	55.7	55.7	55.7	56.4	57.1	58.5	59.9	61.3	62.0
72.5°	49.5	48.1	48.1	48.1	46.7	47.4	48.1	50.9	52.3	53.6	55.0
75°	41.8	40.4	40.4	39.0	39.7	40.4	40.4	41.8	43.2	45.3	46.7
77.5°	32.7	32.7	32.7	32.0	32.0	32.7	33.4	33.4	34.8	36.9	39.0
80°	20.9	20.9	22.3	23.0	23.7	24.4	25.8	26.5	27.2	29.3	30.0
82.5°	7.7	8.4	9.1	9.1	11.1	13.9	14.6	16.7	18.1	20.2	20.2
85°	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	4.2	6.3	7.7
87.5°	1.4	0.7	0.7	0.7	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°
452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	112.5°	21.2
445.2	447.3	446.6	445.9	446.6	448.0	447.3	448.0	448.7	450.1	449.4	115°	25.0
445.9	448.0	448.7	448.7	450.1	452.2	452.2	452.9	453.6	455.0	455.0	117.5°	29.5
455.7	460.5	460.5	461.2	463.3	465.4	466.1	466.8	466.1	466.1	466.1	120°	34.8
470.3	475.9	476.6	480.1	482.8	482.1	482.1	482.8	481.4	480.1	478.0	122.5°	40.9
478.0	482.8	484.2	487.7	491.9	492.6	494.7	496.1	494.7	491.2	487.7	125°	47.8
475.9	480.1	482.8	487.0	491.9	494.7	498.9	500.3	499.6	495.4	491.2	127.5°	55.3
466.8	471.7	475.2	480.7	486.3	490.5	494.7	496.8	496.8	493.3	490.5	130°	63.0
452.2	457.8	462.6	468.9	475.9	480.7	485.6	487.0	487.0	485.6	487.7	132.5°	70.5
436.9	443.1	448.7	455.0	464.0	468.9	474.5	478.7	480.7	483.5	492.6	135°	77.9
417.3	420.1	427.1	434.1	446.6	455.0	466.8	478.0	489.1	501.6	519.8	137.5°	85.3
383.2	388.1	396.4	406.2	418.7	434.1	455.7	477.3	497.5	516.3	538.6	140°	92.5
354.6	363.7	372.8	383.9	397.1	411.8	436.9	464.7	489.1	511.4	535.8	142.5°	99.2
324.0	335.1	347.0	361.6	374.1	387.4	408.3	438.9	468.2	493.3	519.1	145°	104.9
288.4	300.3	312.1	327.5	340.7	357.4	376.2	406.2	439.6	468.2	498.9	147.5°	110.1
250.1	260.6	273.8	287.8	303.1	322.6	342.8	370.7	405.5	436.2	471.0	150°	115.1
213.9	225.0	238.3	253.6	268.9	289.8	312.8	339.3	371.4	404.1	441.0	152.5°	119.7
179.8	194.4	208.3	223.7	239.7	259.2	283.6	312.1	344.2	379.0	418.0	155°	123.7
151.2	162.3	177.0	189.5	206.9	225.7	250.8	282.9	319.8	356.7	397.8	157.5°	127.0
126.1	133.1	145.6	160.9	177.0	196.5	217.4	249.4	287.1	327.5	373.5	160°	130.3
110.8	114.3	123.3	137.3	152.6	172.1	190.2	218.1	255.7	295.4	342.8	162.5°	133.5
103.1	104.5	109.4	119.8	134.5	151.9	171.4	195.1	228.5	267.5	312.8	165°	136.0
98.9	99.6	101.0	108.7	121.2	137.3	156.8	175.6	205.5	242.5	286.4	167.5°	137.1
94.1	94.8	95.5	99.6	108.7	122.6	139.3	154.7	181.8	214.6	256.4	170°	137.4
89.2	90.6	92.0	93.4	99.6	108.7	121.2	134.5	153.3	181.8	216.0	172.5°	138.6
82.9	84.3	86.4	87.8	89.9	95.5	103.1	111.5	121.2	141.4	169.3	175°	140.5
77.3	78.7	79.4	80.1	81.5	82.9	85.7	87.8	92.7	104.5	124.0	177.5°	141.1
69.7	71.1	71.1	71.8	72.5	72.5	73.9	74.6	75.9	79.4	87.8	180°	140.8
63.4	64.1	64.8	65.5	65.5	65.5	64.8	65.5	64.8	64.8	68.3		
55.7	56.4	57.1	57.8	58.5	59.2	59.9	59.9	59.2	57.8	57.8		
47.4	47.4	48.8	49.5	50.2	52.3	53.6	52.3	52.3	51.6	51.6		
39.7	41.1	41.8	41.8	43.2	45.3	46.7	46.0	43.9	43.9	44.6		
30.7	31.4	32.0	32.7	33.4	35.5	37.6	38.3	36.9	37.6	37.6		
20.2	20.9	22.3	23.0	23.7	25.8	27.9	30.0	29.3	30.7	29.3		
9.1	10.5	11.1	11.1	13.2	15.3	18.1	20.2	23.0	23.7	21.6		
0.0	0.7	0.7	0.7	2.8	4.9	9.1	13.9	18.8	14.6	11.1		
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°	452.2	452.2
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	449.4	450.1
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	455.7	455.7
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	464.7	464.7
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	476.6	474.5
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	483.5	480.1
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	487.7	484.2
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	489.1	489.1
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	492.6	498.2
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	504.4	518.4
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	539.3	558.8
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	566.4	592.2
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	568.5	600.6
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	556.0	590.8
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	537.2	576.9
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	514.2	558.8
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	487.7	533.7
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	463.3	510.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	445.9	496.1
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	427.1	480.7
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	397.1	460.5
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	365.1	428.5
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	335.8	396.4
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	304.5	365.8
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	263.4	324.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	210.4	268.2
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	151.2	200.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	102.4	135.9
										70°	74.6	92.7
										72.5°	60.6	69.7
										75°	53.6	58.5
										77.5°	47.4	50.2
										80°	37.6	40.4
										82.5°	29.3	32.0
										85°	21.6	23.7
										87.5°	9.8	9.8
										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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.ED-E1-SLR-8030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	452.2	112.5°	21.2	21.2	21.2
450.8	451.5	451.5	452.9	453.6	455.0	455.7	455.7	455.7	115°	25.0	25.0	25.0
457.1	457.8	458.5	460.5	461.2	463.3	465.4	466.1	468.2	117.5°	29.5	29.5	29.5
464.7	466.8	467.5	468.9	470.3	473.8	476.6	478.0	480.1	120°	34.8	34.8	34.8
473.8	474.5	474.5	475.9	479.4	481.4	484.9	491.2	495.4	122.5°	40.9	40.9	40.9
480.1	478.0	479.4	480.7	484.2	489.1	494.7	503.7	512.1	125°	47.8	47.8	47.8
484.2	484.2	487.7	490.5	496.8	504.4	514.9	527.4	540.0	127.5°	55.3	55.3	55.3
491.9	494.0	501.6	507.2	518.4	529.5	542.8	560.2	579.0	130°	63.0	63.0	63.0
505.8	511.4	519.8	528.8	540.0	556.7	579.0	601.3	626.4	132.5°	70.5	70.5	70.5
528.1	540.7	554.6	565.7	579.0	602.7	627.1	654.9	686.3	135°	77.9	77.9	77.9
576.9	590.8	611.7	630.5	649.4	683.5	714.9	746.9	789.4	137.5°	85.3	85.3	85.3
619.4	641.7	674.4	701.6	727.4	768.5	803.3	856.3	901.6	140°	92.5	92.5	92.5
637.5	673.7	714.9	753.9	801.9	842.4	893.9	957.3	1016.5	142.5°	99.2	99.2	99.2
633.3	677.2	728.8	781.7	838.9	903.7	962.9	1034.0	1111.3	145°	104.9	104.9	104.9
623.6	673.0	733.0	796.4	864.6	945.5	1020.0	1108.5	1204.7	147.5°	110.1	110.1	110.1
611.7	669.6	736.4	811.0	896.7	992.8	1089.0	1204.7	1324.5	150°	115.1	115.1	115.1
593.6	659.8	740.6	833.3	938.5	1051.4	1177.5	1315.4	1444.3	152.5°	119.7	119.7	119.7
573.4	648.0	745.5	864.0	996.3	1136.4	1282.0	1422.7	1569.7	155°	123.7	123.7	123.7
560.2	644.5	758.0	899.5	1053.5	1215.8	1378.1	1532.1	1692.4	157.5°	127.0	127.0	127.0
552.5	646.6	771.3	926.0	1096.0	1275.0	1447.1	1624.1	1792.0	160°	130.3	130.3	130.3
545.5	652.1	783.1	942.7	1123.1	1313.3	1501.5	1692.4	1878.4	162.5°	133.5	133.5	133.5
527.4	650.1	787.3	947.6	1137.1	1338.4	1539.1	1740.4	1938.3	165°	136.0	136.0	136.0
496.1	630.5	778.3	942.7	1141.3	1353.1	1563.5	1776.0	1972.5	167.5°	137.1	137.1	137.1
454.3	590.8	746.2	921.8	1126.6	1346.1	1571.8	1799.0	1992.0	170°	137.4	137.4	137.4
407.6	528.8	689.8	873.7	1079.2	1303.6	1534.9	1777.4	1969.7	172.5°	138.6	138.6	138.6
343.5	451.5	613.1	792.2	992.8	1215.8	1425.5	1690.3	1886.1	175°	140.5	140.5	140.5
262.7	358.8	498.2	680.7	884.9	1079.9	1270.1	1534.9	1752.3	177.5°	141.1	141.1	141.1
181.2	255.7	372.8	532.3	723.2	903.0	1092.5	1339.8	1593.4	180°	140.8	140.8	140.8
117.7	165.8	246.6	369.3	520.5	686.3	843.7	1070.2	1341.9				
83.6	105.9	150.5	227.8	342.8	471.0	599.9	753.2	1012.4				
66.2	77.3	92.7	132.4	200.7	293.3	397.1	494.0	710.7				
53.6	58.5	66.2	81.5	118.4	169.3	234.1	311.4	441.7				
43.2	46.7	51.6	57.8	73.2	97.5	135.9	171.4	252.2				
34.8	39.0	40.4	41.1	47.4	55.7	71.8	96.8	144.2				
25.1	26.5	26.5	27.2	28.6	30.7	41.1	71.1	105.2				
9.8	8.4	9.1	7.0	7.7	8.4	13.2	15.3	24.4				
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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1-8030-ULG

**CANDELA DISTRIBUTION (continued):**

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	452.2	452.2	452.2	452.2
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	457.8	457.8	457.1	457.1
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	469.6	471.7	470.3	472.4
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	484.9	486.3	487.7	490.5
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	501.0	505.8	510.7	512.8
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	519.8	528.8	538.6	543.5
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	552.5	566.4	577.6	585.3
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	595.7	614.5	633.3	646.6
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	650.8	677.9	704.4	721.1
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	720.4	752.5	781.7	813.8
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	816.6	861.2	912.7	940.6
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	953.8	1014.4	1050.7	1112.7
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1084.8	1159.4	1247.2	1332.9
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1195.6	1305.0	1433.9	1564.2
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1312.0	1450.6	1599.7	1766.9
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1451.3	1594.8	1755.8	1939.0
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	1578.1	1741.8	1939.0	2108.3
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1718.1	1892.3	2114.6	2310.4
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	1854.0	2035.9	2279.0	2493.6
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1973.2	2155.7	2414.9	2638.5
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	2068.6	2272.1	2525.0	2739.6
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2143.2	2358.4	2608.6	2809.2
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	2182.2	2399.6	2634.4	2838.5
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2187.7	2396.8	2612.8	2812.0
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	2134.8	2320.1	2526.4	2734.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2016.4	2161.3	2357.1	2563.3
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	1864.5	1959.2	2089.5	2291.6
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1715.4	1778.1	1846.3	1995.5
								70°	1486.1	1538.4	1606.7	1699.3
								72.5°	1155.9	1224.9	1273.6	1363.5
								75°	868.8	908.5	978.9	1061.8
								77.5°	611.0	651.4	731.6	826.3
								80°	410.4	438.2	487.7	569.2
								82.5°	251.5	283.6	325.4	395.7
								85°	168.6	218.8	272.4	325.4
								87.5°	71.1	119.8	151.9	159.6
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8





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**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
452.2	452.2	452.2	452.2	452.2	452.2	452.2	112.5°	21.2	21.2	21.2	21.2	21.2
459.1	458.5	459.8	459.8	459.1	459.1	461.2	115°	25.0	25.0	25.0	25.0	25.0
473.8	474.5	475.9	474.5	477.3	473.8	474.5	117.5°	29.5	29.5	29.5	29.5	29.5
494.0	494.7	496.8	496.1	498.2	496.1	493.3	120°	34.8	34.8	34.8	34.8	34.8
519.8	521.2	521.2	524.6	528.1	523.9	519.1	122.5°	40.9	40.9	40.9	40.9	40.9
549.7	554.6	552.5	559.5	563.0	560.2	556.7	125°	47.8	47.8	47.8	47.8	47.8
590.8	600.6	599.2	612.4	617.3	615.2	615.9	127.5°	55.3	55.3	55.3	55.3	55.3
652.1	666.1	668.2	689.1	702.3	700.2	696.7	130°	63.0	63.0	63.0	63.0	63.0
723.2	759.4	767.8	785.9	800.5	806.1	805.4	132.5°	70.5	70.5	70.5	70.5	70.5
843.7	870.2	889.0	921.8	935.0	947.6	944.1	135°	77.9	77.9	77.9	77.9	77.9
981.0	1005.4	1047.2	1089.0	1102.2	1114.1	1129.4	137.5°	85.3	85.3	85.3	85.3	85.3
1156.6	1192.1	1258.3	1314.7	1346.8	1337.0	1332.2	140°	92.5	92.5	92.5	92.5	92.5
1394.2	1483.3	1532.1	1578.1	1599.0	1568.4	1529.3	142.5°	99.2	99.2	99.2	99.2	99.2
1678.4	1782.9	1813.6	1835.9	1796.2	1754.4	1640.1	145°	104.9	104.9	104.9	104.9	104.9
1886.8	1989.2	2052.6	2076.3	1991.3	1867.3	1712.6	147.5°	110.1	110.1	110.1	110.1	110.1
2074.9	2178.7	2206.6	2217.0	2102.7	1942.5	1792.0	150°	115.1	115.1	115.1	115.1	115.1
2274.8	2361.9	2378.0	2372.4	2220.5	2031.0	1890.2	152.5°	119.7	119.7	119.7	119.7	119.7
2456.7	2545.9	2531.2	2506.9	2334.1	2142.5	1987.1	155°	123.7	123.7	123.7	123.7	123.7
2629.5	2695.0	2668.5	2607.9	2441.4	2228.2	2063.0	157.5°	127.0	127.0	127.0	127.0	127.0
2745.1	2800.2	2771.6	2695.0	2515.2	2286.0	2104.8	160°	130.3	130.3	130.3	130.3	130.3
2832.9	2874.7	2858.0	2747.2	2558.4	2321.5	2123.6	162.5°	133.5	133.5	133.5	133.5	133.5
2876.8	2917.9	2908.2	2757.0	2564.0	2327.1	2114.6	165°	136.0	136.0	136.0	136.0	136.0
2892.8	2939.5	2905.4	2720.8	2527.1	2306.2	2083.2	167.5°	137.1	137.1	137.1	137.1	137.1
2879.6	2901.2	2851.0	2651.8	2451.8	2241.4	2038.6	170°	137.4	137.4	137.4	137.4	137.4
2830.8	2815.5	2746.5	2531.9	2345.2	2151.5	1989.2	172.5°	138.6	138.6	138.6	138.6	138.6
2694.3	2654.6	2598.8	2393.3	2203.1	2009.4	1912.5	175°	140.5	140.5	140.5	140.5	140.5
2412.8	2401.6	2375.9	2223.3	2034.5	1849.8	1787.8	177.5°	141.1	141.1	141.1	141.1	141.1
2051.9	2040.7	2044.2	1941.1	1804.5	1624.8	1626.2	180°	140.8	140.8	140.8	140.8	140.8
1759.3	1697.9	1625.5	1514.7	1435.3	1410.9	1489.6						
1415.8	1382.3	1323.1	1226.3	1136.4	1167.7	1344.0						
1094.6	1074.4	1117.6	1128.7	1093.9	1073.0	1132.9						
896.7	940.6	1009.6	1097.4	1105.7	1075.1	961.5						
682.8	797.1	892.5	1011.0	998.4	932.2	808.2						
478.0	588.7	678.6	778.3	774.8	714.2	652.8						
365.8	400.6	434.8	539.3	579.7	533.0	466.1						
172.8	174.2	209.7	258.5	277.3	316.3	312.1						
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						



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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°	452.2	452.2	452.2	452.2	452.2	452.2
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	461.9	461.2	461.2	461.2	461.9	461.2
29.5	29.5	29.5	29.5	29.5	29.5	5°	475.9	474.5	473.8	473.8	473.1	473.1
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	494.0	491.2	491.2	489.1	488.4	486.3
40.9	40.9	40.9	40.9	40.9	40.9	10°	518.4	515.6	514.9	509.3	509.3	504.4
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	553.9	553.9	553.9	546.9	545.5	537.2
55.3	55.3	55.3	55.3	55.3	55.3	15°	615.2	609.6	614.5	602.7	602.0	590.8
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	698.1	698.1	688.4	682.8	679.3	663.3
70.5	70.5	70.5	70.5	70.5	70.5	20°	808.2	808.9	792.2	776.9	769.9	751.8
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	948.3	935.0	914.1	903.0	891.8	861.9
85.3	85.3	85.3	85.3	85.3	85.3	25°	1132.2	1126.6	1089.7	1049.3	1032.6	987.3
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1312.6	1300.8	1241.6	1172.6	1130.1	1068.1
99.2	99.2	99.2	99.2	99.2	99.2	30°	1471.5	1393.5	1323.1	1240.2	1175.4	1098.1
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1554.4	1456.2	1353.8	1285.5	1204.0	1118.3
110.1	110.1	110.1	110.1	110.1	110.1	35°	1618.5	1513.3	1411.6	1323.1	1231.1	1134.3
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1700.0	1589.3	1477.1	1371.9	1259.7	1146.1
119.7	119.7	119.7	119.7	119.7	119.7	40°	1790.6	1663.8	1525.2	1397.7	1271.5	1141.9
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1865.9	1712.6	1549.5	1406.0	1267.4	1124.5
127.0	127.0	127.0	127.0	127.0	127.0	45°	1907.7	1732.8	1551.6	1397.0	1250.6	1102.9
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1927.2	1733.5	1537.7	1376.7	1228.3	1072.3
133.5	133.5	133.5	133.5	133.5	133.5	50°	1925.1	1716.1	1511.2	1349.6	1203.3	1040.2
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1904.2	1687.5	1480.6	1328.0	1181.7	1013.1
137.1	137.1	137.1	137.1	137.1	137.1	55°	1872.1	1656.8	1449.9	1313.3	1163.5	990.8
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1835.9	1630.4	1427.6	1310.6	1153.1	986.6
138.6	138.6	138.6	138.6	138.6	138.6	60°	1819.9	1633.1	1441.5	1291.1	1147.5	995.6
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1809.4	1659.6	1470.1	1304.3	1156.6	1034.0
141.1	141.1	141.1	141.1	141.1	141.1	65°	1766.9	1696.6	1514.0	1351.7	1222.1	1123.8
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	1716.1	1707.0	1531.4	1379.5	1296.6	1240.9
						70°	1663.1	1695.9	1556.5	1452.7	1406.7	1384.4
						72.5°	1578.1	1615.7	1486.1	1424.1	1410.2	1394.2
						75°	1316.1	1323.1	1224.2	1190.0	1214.4	1176.8
						77.5°	946.2	964.3	900.2	909.2	988.7	907.1
						80°	700.9	629.8	589.4	616.6	692.6	576.2
						82.5°	577.6	467.5	396.4	433.4	462.6	340.0
						85°	444.5	356.7	293.3	236.9	225.7	145.6
						87.5°	349.1	257.8	143.5	80.8	54.3	3.5
						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-8030-ULG

**CANDELA DISTRIBUTION (continued):**

360°		330°	335°	340°	345°	350°	355°	360°
452.2	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
461.9	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
473.1	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
486.3	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
506.5	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
535.8	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
588.0	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
655.6	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
738.5	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
831.9	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
938.5	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1004.0	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1017.9	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1027.7	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
1030.5	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
1026.3	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
1009.6	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
988.0	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
960.8	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
927.4	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
896.0	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
871.6	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
856.3	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
858.4	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
880.0	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
934.3	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
1037.4	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
1138.5	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
1236.0								
1171.9								
894.6								
643.8								
373.5								
233.4								
101.0								
3.5								
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)