

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: P160173

Luminaire Tested: **ENV-F01-LED-E1-SLR-7030-ULG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P160173  
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND SCALED  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-F01-LED-E1-SLR-7030-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (7) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2151.2 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G1

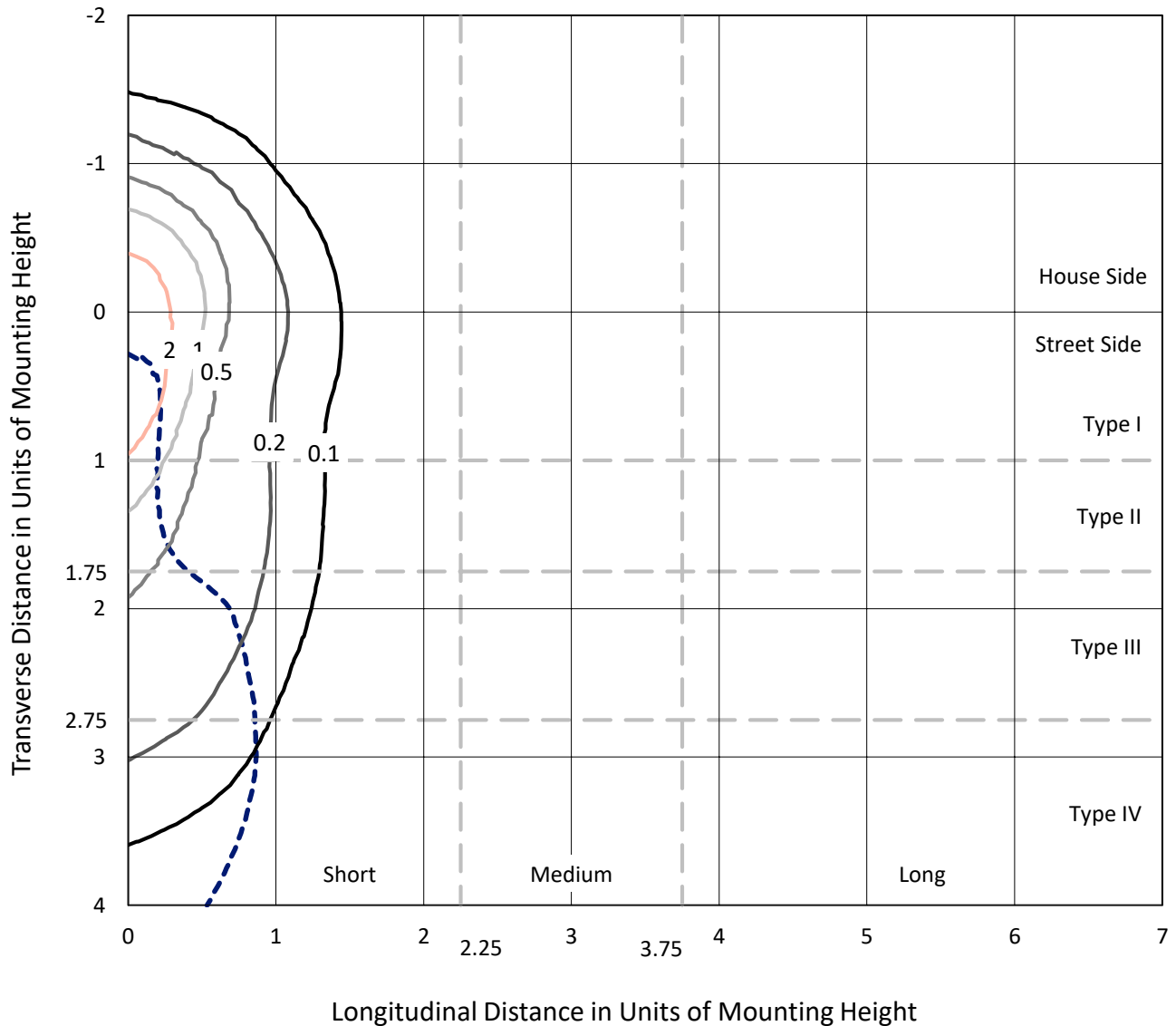
Input Watts (W): 33.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

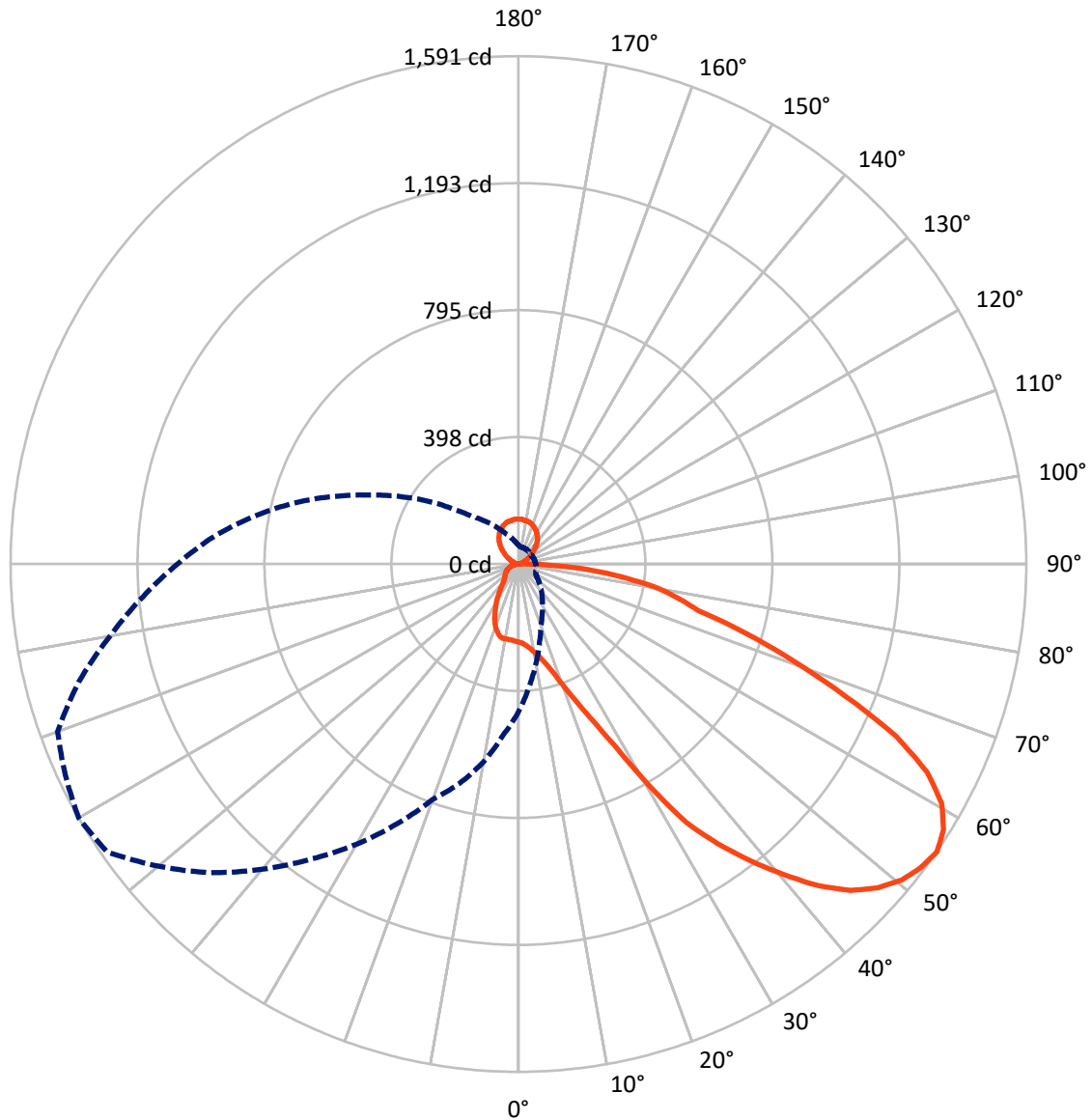
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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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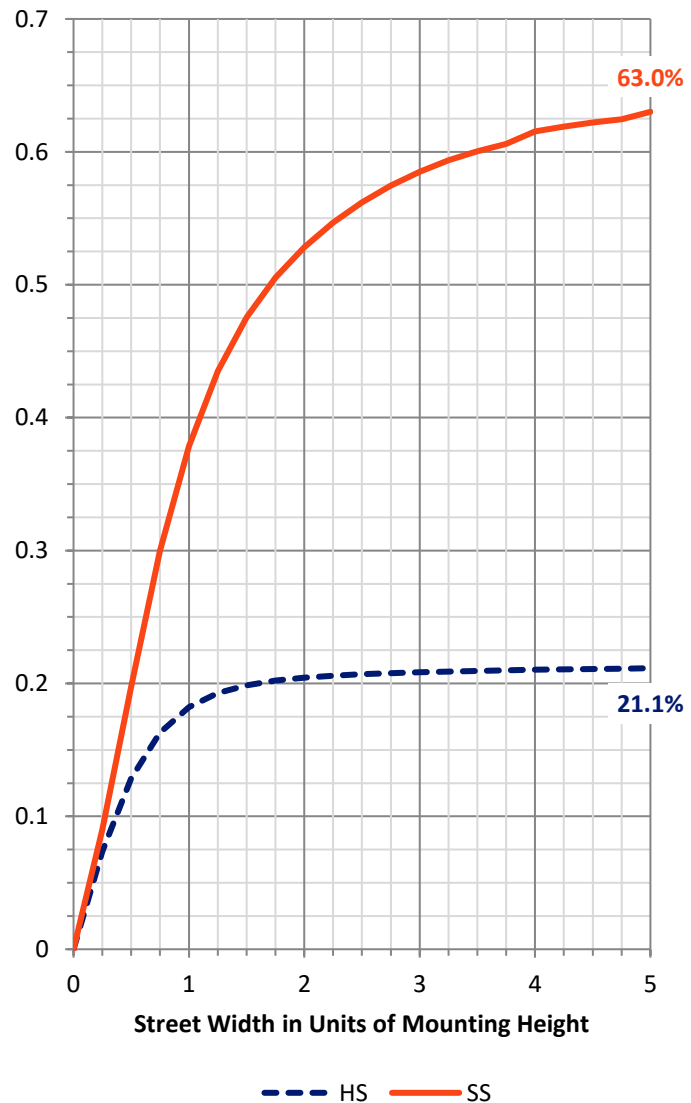
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	458.8	157.7	616.6
	% Fixture	21.3	7.3	28.7
<b>Street Side</b>	Lumens	1376.9	157.7	1534.6
	% Fixture	64.0	7.3	71.3
<b>Total</b>	Lumens	1835.7	315.5	2151.2
	% Fixture	85.3	14.7	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	1.1
10°-20°	79.2	3.7
20°-30°	153.7	7.1
30°-40°	241.6	11.2
40°-50°	322.9	15.0
50°-60°	378.9	17.6
60°-70°	359.5	16.7
70°-80°	217.0	10.1
80°-90°	58.8	2.7
90°-100°	1.3	0.1
100°-110°	12.3	0.6
110°-120°	25.2	1.2
120°-130°	43.0	2.0
130°-140°	60.0	2.8
140°-150°	65.4	3.0
150°-160°	56.9	2.6
160°-170°	38.2	1.8
170°-180°	13.3	0.6
0°-90°	1835.7	85.3
0°-180°	2151.2	100.0



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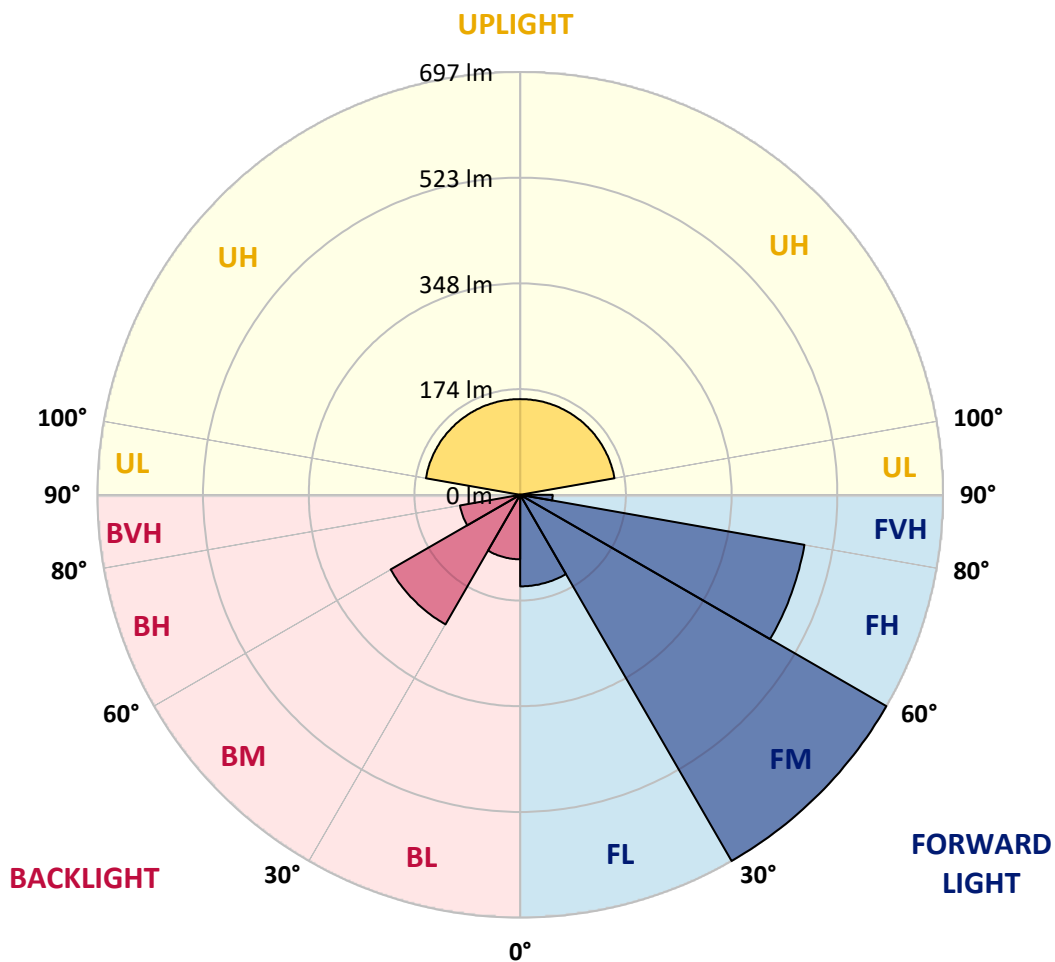
CATALOG NUMBER: ENV-F01-LED-E1-SLR-7030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.9	7.0			
FM	(30°-60°)	696.9	32.4			
FH	(60°-80°)	475.7	22.1			G0/660
FVH	(80°-90°)	53.5	2.5			G1/100
BL	(0°-30°)	106.2	4.9	B0/110		
BM	(30°-60°)	246.6	11.5	B1/1000		
BH	(60°-80°)	100.7	4.7	B0/110		G0/110
BVH	(80°-90°)	5.3	0.2			G0/10
UL	(90°-100°)	1.3	0.1		U1/10	
UH	(100°-180°)	157.7	7.3		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°	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7
2.5°	249.9	251.8	249.6	249.9	249.2	248.4	248.8	248.4	247.7	247.7	246.9
5°	256.0	256.4	254.8	254.5	253.7	252.6	253.0	251.8	251.1	250.3	248.8
7.5°	263.1	262.8	260.9	259.8	259.4	257.5	257.1	255.6	254.5	253.3	251.5
10°	274.1	271.1	268.8	266.9	266.2	263.9	262.0	261.3	259.4	256.7	255.2
12.5°	289.9	288.0	283.5	279.7	277.5	274.5	271.8	269.9	266.9	263.1	261.3
15°	318.2	312.2	306.9	301.2	296.7	291.8	285.4	280.5	275.2	268.8	263.9
17.5°	354.8	347.2	338.9	329.9	320.4	309.9	297.5	288.0	277.5	266.5	259.0
20°	399.6	385.7	374.0	356.6	339.3	322.7	303.1	286.5	271.4	257.1	246.2
22.5°	450.1	429.0	405.3	378.9	351.0	325.3	297.8	275.2	253.3	235.6	223.2
25°	507.8	474.6	438.4	398.5	358.5	320.4	286.5	258.2	234.9	213.8	199.8
27.5°	543.3	498.0	454.7	407.2	361.5	317.4	276.0	243.2	216.4	193.8	177.6
30°	550.8	505.2	454.3	402.6	355.5	307.3	262.0	225.4	195.7	171.9	155.7
32.5°	556.1	503.3	446.7	389.4	338.2	287.3	241.3	205.1	173.4	150.0	131.2
35°	557.6	496.1	432.4	368.7	314.8	262.8	216.8	178.7	151.2	128.2	111.2
37.5°	555.3	484.4	413.2	347.2	289.5	235.2	190.0	156.8	133.5	111.2	96.1
40°	546.3	469.7	395.8	326.5	263.9	207.7	167.4	138.7	118.8	101.8	90.1
42.5°	534.6	452.8	376.6	302.4	239.0	185.9	149.3	126.3	109.3	97.3	87.5
45°	519.9	435.1	356.6	280.9	217.9	169.3	138.7	119.5	106.3	95.8	86.7
47.5°	501.8	416.2	337.4	264.7	203.6	161.0	136.5	119.5	106.3	95.0	85.2
50°	484.8	399.2	322.7	254.5	197.2	161.4	138.7	121.0	105.9	93.5	82.6
52.5°	471.6	389.1	316.7	250.7	197.9	165.1	143.3	123.3	107.1	93.5	81.8
55°	463.3	384.9	315.9	254.1	205.8	175.3	150.4	130.1	112.3	96.5	82.9
57.5°	464.5	389.4	325.0	268.0	223.9	193.0	164.7	142.1	119.9	100.3	83.3
60°	476.1	404.5	346.8	300.8	254.1	216.8	182.8	152.7	123.3	99.2	80.7
62.5°	505.6	440.0	392.8	345.7	291.4	240.1	193.8	154.6	119.5	93.5	74.3
65°	561.3	503.7	458.4	399.6	322.3	249.9	192.6	148.9	112.3	84.4	65.6
67.5°	616.0	554.9	491.2	402.6	314.8	242.8	180.2	135.0	99.5	72.4	58.1
70°	668.8	589.6	507.8	398.9	292.9	208.9	150.4	112.7	79.2	60.3	49.8
72.5°	634.1	542.9	459.2	351.7	251.8	171.5	119.9	81.8	60.7	49.8	43.0
75°	484.1	420.7	348.0	269.9	185.9	121.0	79.9	58.1	46.7	39.2	35.1
77.5°	348.3	301.2	241.7	177.2	116.1	76.5	54.3	41.5	34.7	29.4	27.1
80°	202.1	173.4	135.3	97.6	66.4	47.9	36.2	29.4	25.3	21.5	20.7
82.5°	126.3	101.0	71.6	48.3	33.9	26.4	21.1	18.1	15.1	13.2	11.3
85°	54.7	39.2	22.2	12.4	9.4	7.2	5.7	4.9	4.1	3.8	3.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3	2.3	1.9
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°	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7
2.5°	246.9	246.2	245.8	245.8	245.0	245.0	244.3	244.7	244.3	243.5	243.2
5°	248.4	247.3	246.6	245.8	244.7	244.3	243.5	243.5	242.4	241.3	240.9
7.5°	250.3	248.8	247.7	246.2	244.7	243.9	242.4	241.7	240.5	239.4	239.0
10°	254.1	251.5	249.6	247.7	245.0	243.5	241.3	240.1	239.0	237.5	236.8
12.5°	258.2	254.8	252.2	247.7	245.0	242.4	240.1	237.9	235.6	234.1	233.7
15°	258.2	254.1	248.4	244.3	240.5	236.8	234.5	232.2	229.6	228.5	228.1
17.5°	251.8	244.7	239.4	234.9	231.5	228.5	226.2	225.1	222.8	220.5	219.8
20°	237.1	228.8	222.8	217.9	214.1	211.1	210.4	209.2	208.1	208.1	208.5
22.5°	213.0	204.0	198.7	193.4	189.3	187.7	188.1	189.3	189.6	189.3	191.9
25°	188.9	180.2	173.0	168.1	163.2	164.4	162.9	165.5	166.6	167.0	170.0
27.5°	165.5	156.1	148.5	144.4	142.1	140.6	139.5	142.9	143.6	146.3	148.9
30°	140.6	131.9	123.3	119.9	118.0	116.9	117.2	120.3	122.1	125.9	128.2
32.5°	117.6	107.1	100.7	96.1	94.2	93.9	94.2	96.5	98.8	103.7	107.1
35°	98.0	87.8	82.6	79.9	77.3	76.2	77.3	78.0	78.8	82.9	87.1
37.5°	86.7	79.5	75.4	72.8	70.9	69.7	69.7	69.4	69.7	70.5	72.4
40°	81.8	76.5	72.8	70.1	68.6	67.9	67.5	67.1	66.7	66.7	66.7
42.5°	79.9	73.9	70.1	67.9	67.1	67.1	67.1	66.7	66.0	65.2	64.8
45°	78.4	72.0	67.9	66.0	66.0	66.0	66.4	66.0	65.2	64.1	63.0
47.5°	75.8	69.4	65.6	64.1	64.1	64.1	64.5	64.1	63.3	62.6	61.5
50°	72.8	66.0	62.2	61.1	60.7	60.7	60.3	59.9	59.6	58.8	57.7
52.5°	70.9	63.7	60.3	59.6	58.8	58.4	57.7	57.3	56.5	56.2	55.0
55°	70.5	62.2	59.2	58.4	57.7	56.5	55.0	54.3	52.8	52.4	51.6
57.5°	69.4	60.7	57.3	55.4	53.5	52.4	50.9	50.1	49.4	48.6	47.9
60°	65.6	56.2	52.0	50.9	49.8	49.4	48.6	47.9	46.7	45.6	44.1
62.5°	58.4	50.5	47.9	47.5	47.1	46.4	45.6	44.5	43.7	42.2	40.7
65°	52.8	47.5	46.0	45.2	44.9	43.7	43.0	42.2	41.1	40.0	38.5
67.5°	47.9	44.1	43.4	42.2	41.8	41.1	40.0	39.2	38.1	36.9	35.4
70°	43.4	40.3	40.0	39.2	38.5	38.1	36.6	35.4	35.1	33.6	32.4
72.5°	38.5	36.6	35.8	35.1	34.3	33.9	33.2	32.4	31.7	30.2	28.7
75°	32.0	31.3	30.9	30.2	29.8	29.0	27.9	26.8	26.4	25.3	24.1
77.5°	25.6	24.9	24.9	24.1	23.0	21.9	20.7	19.2	19.2	19.2	18.5
80°	18.1	17.3	16.2	15.8	15.1	14.3	13.2	12.4	11.7	11.7	11.7
82.5°	10.6	10.2	9.4	8.3	7.5	7.2	6.0	5.3	4.9	4.1	4.1
85°	2.3	2.3	1.5	1.5	1.1	1.1	1.1	0.8	0.8	0.4	0.4
87.5°	1.9	1.9	1.9	1.5	1.5	1.5	1.1	1.1	1.1	0.8	0.8
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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**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°	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7
2.5°	243.2	242.8	242.0	240.5	240.1	239.8	240.1	240.1	239.8	240.1	240.5
5°	240.9	240.5	239.4	238.6	237.9	237.9	240.1	240.1	239.0	239.4	240.9
7.5°	239.0	239.0	238.3	237.9	238.3	239.4	241.3	242.8	242.4	244.7	245.4
10°	236.8	237.1	237.5	239.0	241.3	243.2	246.2	248.8	249.6	251.5	252.6
12.5°	234.5	236.0	237.9	240.9	243.9	246.9	250.3	253.3	253.7	255.6	257.1
15°	228.8	231.1	233.7	237.1	241.7	245.0	249.9	252.2	253.0	254.1	256.0
17.5°	220.2	221.3	223.2	227.0	231.9	236.4	242.0	245.8	248.1	249.6	250.3
20°	208.5	210.7	211.9	215.3	217.9	221.3	228.8	233.7	238.3	240.5	242.8
22.5°	192.3	194.9	197.5	200.9	202.4	204.7	211.9	219.4	226.2	230.7	233.4
25°	171.9	174.9	178.7	182.8	184.7	187.0	195.3	202.8	211.1	219.0	222.8
27.5°	151.6	155.3	159.1	164.0	167.0	169.6	176.8	184.0	192.6	200.2	204.0
30°	131.9	137.2	140.6	146.3	148.9	151.6	158.0	165.9	171.9	180.6	185.5
32.5°	111.6	115.4	121.8	128.2	131.2	133.8	139.9	146.7	151.9	160.6	167.8
35°	93.1	96.5	103.3	109.7	111.6	115.7	121.8	127.8	132.7	140.6	147.4
37.5°	75.8	81.4	86.7	91.6	95.8	98.8	104.4	109.7	112.3	119.9	127.0
40°	67.5	70.1	73.9	78.4	81.1	84.1	88.2	92.7	95.8	101.0	107.1
42.5°	64.5	64.5	65.6	67.9	71.3	72.8	76.5	78.8	82.9	85.2	90.5
45°	62.2	61.5	61.8	61.8	63.0	64.1	67.1	69.4	72.0	73.9	77.3
47.5°	60.3	58.8	58.4	57.7	57.3	58.1	60.3	62.2	63.3	64.8	66.0
50°	56.2	55.0	53.9	53.2	52.8	53.5	55.4	56.9	57.3	58.1	58.8
52.5°	53.9	52.4	51.3	50.1	50.1	50.9	52.4	53.5	53.9	54.3	55.0
55°	50.9	50.1	49.4	48.3	47.9	49.0	50.1	51.3	52.0	52.0	52.8
57.5°	47.1	46.4	47.1	46.7	46.4	47.1	48.6	49.8	50.1	50.1	50.5
60°	43.4	43.0	43.0	43.7	44.5	45.6	46.7	48.3	47.9	47.1	47.5
62.5°	40.0	39.6	40.0	41.1	42.2	43.4	44.9	46.0	44.9	44.1	44.1
65°	37.7	37.3	37.7	38.1	38.5	39.6	41.5	41.8	41.1	41.1	41.1
67.5°	34.7	34.3	33.9	34.3	34.7	35.1	36.6	36.9	36.9	36.9	36.9
70°	30.9	30.5	30.2	30.2	30.2	30.5	30.9	31.7	32.4	33.2	33.6
72.5°	26.8	26.0	26.0	26.0	25.3	25.6	26.0	27.5	28.3	29.0	29.8
75°	22.6	21.9	21.9	21.1	21.5	21.9	21.9	22.6	23.4	24.5	25.3
77.5°	17.7	17.7	17.7	17.3	17.3	17.7	18.1	18.1	18.8	20.0	21.1
80°	11.3	11.3	12.1	12.4	12.8	13.2	13.9	14.3	14.7	15.8	16.2
82.5°	4.1	4.5	4.9	4.9	6.0	7.5	7.9	9.0	9.8	10.9	10.9
85°	0.4	0.4	0.4	0.4	0.4	0.8	1.1	1.5	2.3	3.4	4.1
87.5°	0.8	0.4	0.4	0.4	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°	
244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	112.5°	21.2
240.9	242.0	241.7	241.3	241.7	242.4	242.0	242.4	242.8	243.5	243.2	115°	25.0
241.3	242.4	242.8	242.8	243.5	244.7	244.7	245.0	245.4	246.2	246.2	117.5°	29.5
246.6	249.2	249.2	249.6	250.7	251.8	252.2	252.6	252.2	252.2	252.2	120°	34.8
254.5	257.5	257.9	259.8	261.3	260.9	260.9	261.3	260.5	259.8	258.6	122.5°	40.9
258.6	261.3	262.0	263.9	266.2	266.5	267.7	268.4	267.7	265.8	263.9	125°	47.8
257.5	259.8	261.3	263.5	266.2	267.7	269.9	270.7	270.3	268.0	265.8	127.5°	55.3
252.6	255.2	257.1	260.1	263.1	265.4	267.7	268.8	268.8	266.9	265.4	130°	63.0
244.7	247.7	250.3	253.7	257.5	260.1	262.8	263.5	263.5	262.8	263.9	132.5°	70.5
236.4	239.8	242.8	246.2	251.1	253.7	256.7	259.0	260.1	261.6	266.5	135°	77.9
225.8	227.3	231.1	234.9	241.7	246.2	252.6	258.6	264.7	271.4	281.2	137.5°	85.3
207.3	210.0	214.5	219.8	226.6	234.9	246.6	258.2	269.2	279.4	291.4	140°	92.5
191.9	196.8	201.7	207.7	214.9	222.8	236.4	251.5	264.7	276.7	289.9	142.5°	99.2
175.3	181.3	187.7	195.7	202.4	209.6	220.9	237.5	253.3	266.9	280.9	145°	104.9
156.1	162.5	168.9	177.2	184.4	193.4	203.6	219.8	237.9	253.3	269.9	147.5°	110.1
135.3	141.0	148.2	155.7	164.0	174.5	185.5	200.6	219.4	236.0	254.8	150°	115.1
115.7	121.8	128.9	137.2	145.5	156.8	169.3	183.6	200.9	218.7	238.6	152.5°	119.7
97.3	105.2	112.7	121.0	129.7	140.2	153.4	168.9	186.2	205.1	226.2	155°	123.7
81.8	87.8	95.8	102.5	112.0	122.1	135.7	153.1	173.0	193.0	215.3	157.5°	127.0
68.2	72.0	78.8	87.1	95.8	106.3	117.6	135.0	155.3	177.2	202.1	160°	130.3
59.9	61.8	66.7	74.3	82.6	93.1	102.9	118.0	138.4	159.8	185.5	162.5°	133.5
55.8	56.5	59.2	64.8	72.8	82.2	92.7	105.6	123.7	144.8	169.3	165°	136.0
53.5	53.9	54.7	58.8	65.6	74.3	84.8	95.0	111.2	131.2	154.9	167.5°	137.1
50.9	51.3	51.6	53.9	58.8	66.4	75.4	83.7	98.4	116.1	138.7	170°	137.4
48.3	49.0	49.8	50.5	53.9	58.8	65.6	72.8	82.9	98.4	116.9	172.5°	138.6
44.9	45.6	46.7	47.5	48.6	51.6	55.8	60.3	65.6	76.5	91.6	175°	140.5
41.8	42.6	43.0	43.4	44.1	44.9	46.4	47.5	50.1	56.5	67.1	177.5°	141.1
37.7	38.5	38.5	38.8	39.2	39.2	40.0	40.3	41.1	43.0	47.5	180°	140.8
34.3	34.7	35.1	35.4	35.4	35.4	35.1	35.4	35.1	35.1	36.9		
30.2	30.5	30.9	31.3	31.7	32.0	32.4	32.4	32.0	31.3	31.3		
25.6	25.6	26.4	26.8	27.1	28.3	29.0	28.3	28.3	27.9	27.9		
21.5	22.2	22.6	22.6	23.4	24.5	25.3	24.9	23.8	23.8	24.1		
16.6	17.0	17.3	17.7	18.1	19.2	20.4	20.7	20.0	20.4	20.4		
10.9	11.3	12.1	12.4	12.8	13.9	15.1	16.2	15.8	16.6	15.8		
4.9	5.7	6.0	6.0	7.2	8.3	9.8	10.9	12.4	12.8	11.7		
0.0	0.4	0.4	0.4	1.5	2.6	4.9	7.5	10.2	7.9	6.0		
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°	244.7	244.7
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	243.2	243.5
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	246.6	246.6
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	251.5	251.5
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	257.9	256.7
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	261.6	259.8
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	263.9	262.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	264.7	264.7
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	266.5	269.6
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	272.9	280.5
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	291.8	302.4
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	306.5	320.4
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	307.6	325.0
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	300.8	319.7
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	290.7	312.2
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	278.2	302.4
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	263.9	288.8
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	250.7	276.3
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	241.3	268.4
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	231.1	260.1
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	214.9	249.2
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	197.5	231.9
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	181.7	214.5
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	164.7	197.9
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	142.5	175.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	113.9	145.1
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	81.8	108.2
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	55.4	73.5
										70°	40.3	50.1
										72.5°	32.8	37.7
										75°	29.0	31.7
										77.5°	25.6	27.1
										80°	20.4	21.9
										82.5°	15.8	17.3
										85°	11.7	12.8
										87.5°	5.3	5.3
										90°	0.1	0.1
										92.5°	0.1	0.1
										95°	0.5	0.5
										97.5°	1.5	1.5
										100°	5.0	5.0
										102.5°	8.8	8.8
										105°	11.8	11.8
										107.5°	14.7	14.7
										110°	17.8	17.8



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LED-E1-SLR-7030-ULG

**tinued):**

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	244.7	112.5°	21.2	21.2	21.2
243.9	244.3	244.3	245.0	245.4	246.2	246.6	246.6	246.6	115°	25.0	25.0	25.0
247.3	247.7	248.1	249.2	249.6	250.7	251.8	252.2	253.3	117.5°	29.5	29.5	29.5
251.5	252.6	253.0	253.7	254.5	256.4	257.9	258.6	259.8	120°	34.8	34.8	34.8
256.4	256.7	256.7	257.5	259.4	260.5	262.4	265.8	268.0	122.5°	40.9	40.9	40.9
259.8	258.6	259.4	260.1	262.0	264.7	267.7	272.6	277.1	125°	47.8	47.8	47.8
262.0	262.0	263.9	265.4	268.8	272.9	278.6	285.4	292.2	127.5°	55.3	55.3	55.3
266.2	267.3	271.4	274.5	280.5	286.5	293.7	303.1	313.3	130°	63.0	63.0	63.0
273.7	276.7	281.2	286.1	292.2	301.2	313.3	325.3	338.9	132.5°	70.5	70.5	70.5
285.8	292.5	300.1	306.1	313.3	326.1	339.3	354.4	371.3	135°	77.9	77.9	77.9
312.2	319.7	331.0	341.2	351.4	369.8	386.8	404.1	427.1	137.5°	85.3	85.3	85.3
335.2	347.2	364.9	379.6	393.6	415.8	434.7	463.3	487.8	140°	92.5	92.5	92.5
345.0	364.6	386.8	407.9	433.9	455.8	483.7	518.0	550.0	142.5°	99.2	99.2	99.2
342.7	366.4	394.3	423.0	453.9	489.0	521.0	559.5	601.3	145°	104.9	104.9	104.9
337.4	364.2	396.6	430.9	467.9	511.6	551.9	599.8	651.8	147.5°	110.1	110.1	110.1
331.0	362.3	398.5	438.8	485.2	537.2	589.2	651.8	716.7	150°	115.1	115.1	115.1
321.2	357.0	400.7	450.9	507.8	568.9	637.1	711.8	781.5	152.5°	119.7	119.7	119.7
310.3	350.6	403.4	467.5	539.1	614.9	693.7	769.8	849.4	155°	123.7	123.7	123.7
303.1	348.7	410.2	486.7	570.0	657.9	745.7	829.0	915.7	157.5°	127.0	127.0	127.0
299.0	349.9	417.3	501.0	593.0	689.9	783.0	878.8	969.6	160°	130.3	130.3	130.3
295.2	352.9	423.7	510.1	607.7	710.6	812.4	915.7	1016.4	162.5°	133.5	133.5	133.5
285.4	351.7	426.0	512.7	615.3	724.2	832.8	941.7	1048.8	165°	136.0	136.0	136.0
268.4	341.2	421.1	510.1	617.5	732.1	846.0	961.0	1067.3	167.5°	137.1	137.1	137.1
245.8	319.7	403.8	498.8	609.6	728.4	850.5	973.4	1077.8	170°	137.4	137.4	137.4
220.5	286.1	373.2	472.8	584.0	705.4	830.5	961.7	1065.8	172.5°	138.6	138.6	138.6
185.9	244.3	331.8	428.6	537.2	657.9	771.3	914.6	1020.5	175°	140.5	140.5	140.5
142.1	194.2	269.6	368.3	478.8	584.3	687.3	830.5	948.1	177.5°	141.1	141.1	141.1
98.0	138.4	201.7	288.0	391.3	488.6	591.1	725.0	862.2	180°	140.8	140.8	140.8
63.7	89.7	133.5	199.8	281.6	371.3	456.5	579.1	726.1				
45.2	57.3	81.4	123.3	185.5	254.8	324.6	407.5	547.8				
35.8	41.8	50.1	71.6	108.6	158.7	214.9	267.3	384.5				
29.0	31.7	35.8	44.1	64.1	91.6	126.7	168.5	239.0				
23.4	25.3	27.9	31.3	39.6	52.8	73.5	92.7	136.5				
18.8	21.1	21.9	22.2	25.6	30.2	38.8	52.4	78.0				
13.6	14.3	14.3	14.7	15.5	16.6	22.2	38.5	56.9				
5.3	4.5	4.9	3.8	4.1	4.5	7.2	8.3	13.2				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8				
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8				



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**CANDELA DISTRIBUTION (continued):**

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	244.7	244.7	244.7	244.7
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	247.7	247.7	247.3	247.3
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	254.1	255.2	254.5	255.6
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	262.4	263.1	263.9	265.4
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	271.1	273.7	276.3	277.5
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	281.2	286.1	291.4	294.1
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	299.0	306.5	312.5	316.7
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	322.3	332.5	342.7	349.9
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	352.1	366.8	381.1	390.2
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	389.8	407.2	423.0	440.3
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	441.8	466.0	493.9	508.9
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	516.1	548.9	568.5	602.1
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	587.0	627.3	674.8	721.2
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	646.9	706.1	775.9	846.4
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	709.9	784.9	865.6	956.1
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	785.3	862.9	950.0	1049.2
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	853.9	942.5	1049.2	1140.8
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	929.7	1023.9	1144.2	1250.1
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	1003.2	1101.6	1233.2	1349.3
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1067.7	1166.4	1306.7	1427.7
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	1119.3	1229.4	1366.2	1482.4
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1159.6	1276.1	1411.5	1520.1
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	1180.8	1298.4	1425.4	1535.9
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	1183.8	1296.9	1413.7	1521.6
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	1155.1	1255.4	1367.0	1479.7
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	1091.0	1169.4	1275.4	1387.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	1008.8	1060.1	1130.6	1239.9
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	928.2	962.1	999.0	1079.7
								70°	804.1	832.4	869.4	919.5
								72.5°	625.4	662.8	689.2	737.8
								75°	470.1	491.6	529.7	574.5
								77.5°	330.6	352.5	395.8	447.1
								80°	222.1	237.1	263.9	308.0
								82.5°	136.1	153.4	176.1	214.1
								85°	91.2	118.4	147.4	176.1
								87.5°	38.5	64.8	82.2	86.3
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8





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**CANDELA DISTRIBUTION (continued):**

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
244.7	244.7	244.7	244.7	244.7	244.7	244.7	112.5°	21.2	21.2	21.2	21.2	21.2
248.4	248.1	248.8	248.8	248.4	248.4	249.6	115°	25.0	25.0	25.0	25.0	25.0
256.4	256.7	257.5	256.7	258.2	256.4	256.7	117.5°	29.5	29.5	29.5	29.5	29.5
267.3	267.7	268.8	268.4	269.6	268.4	266.9	120°	34.8	34.8	34.8	34.8	34.8
281.2	282.0	282.0	283.9	285.8	283.5	280.9	122.5°	40.9	40.9	40.9	40.9	40.9
297.5	300.1	299.0	302.7	304.6	303.1	301.2	125°	47.8	47.8	47.8	47.8	47.8
319.7	325.0	324.2	331.4	334.0	332.9	333.3	127.5°	55.3	55.3	55.3	55.3	55.3
352.9	360.4	361.5	372.8	380.0	378.9	377.0	130°	63.0	63.0	63.0	63.0	63.0
391.3	410.9	415.5	425.3	433.2	436.2	435.8	132.5°	70.5	70.5	70.5	70.5	70.5
456.5	470.9	481.0	498.8	505.9	512.7	510.8	135°	77.9	77.9	77.9	77.9	77.9
530.8	544.0	566.6	589.2	596.4	602.8	611.1	137.5°	85.3	85.3	85.3	85.3	85.3
625.8	645.0	680.9	711.4	728.7	723.5	720.8	140°	92.5	92.5	92.5	92.5	92.5
754.4	802.6	829.0	853.9	865.2	848.6	827.5	142.5°	99.2	99.2	99.2	99.2	99.2
908.2	964.7	981.3	993.4	971.9	949.3	887.5	145°	104.9	104.9	104.9	104.9	104.9
1020.9	1076.3	1110.6	1123.5	1077.5	1010.4	926.7	147.5°	110.1	110.1	110.1	110.1	110.1
1122.7	1178.9	1193.9	1199.6	1137.8	1051.1	969.6	150°	115.1	115.1	115.1	115.1	115.1
1230.9	1278.0	1286.7	1283.7	1201.5	1098.9	1022.8	152.5°	119.7	119.7	119.7	119.7	119.7
1329.3	1377.5	1369.6	1356.4	1262.9	1159.3	1075.2	155°	123.7	123.7	123.7	123.7	123.7
1422.8	1458.2	1443.9	1411.1	1321.0	1205.6	1116.3	157.5°	127.0	127.0	127.0	127.0	127.0
1485.4	1515.1	1499.7	1458.2	1361.0	1236.9	1138.9	160°	130.3	130.3	130.3	130.3	130.3
1532.9	1555.5	1546.4	1486.5	1384.3	1256.2	1149.1	162.5°	133.5	133.5	133.5	133.5	133.5
1556.6	1578.9	1573.6	1491.8	1387.3	1259.2	1144.2	165°	136.0	136.0	136.0	136.0	136.0
1565.3	1590.5	1572.1	1472.2	1367.4	1247.9	1127.2	167.5°	137.1	137.1	137.1	137.1	137.1
1558.1	1569.8	1542.7	1434.8	1326.7	1212.8	1103.1	170°	137.4	137.4	137.4	137.4	137.4
1531.7	1523.4	1486.1	1370.0	1269.0	1164.2	1076.3	172.5°	138.6	138.6	138.6	138.6	138.6
1457.8	1436.4	1406.2	1295.0	1192.1	1087.3	1034.9	175°	140.5	140.5	140.5	140.5	140.5
1305.5	1299.5	1285.6	1203.0	1100.8	1000.9	967.4	177.5°	141.1	141.1	141.1	141.1	141.1
1110.3	1104.2	1106.1	1050.3	976.4	879.2	879.9	180°	140.8	140.8	140.8	140.8	140.8
951.9	918.7	879.5	819.6	776.6	763.4	806.0						
766.1	748.0	715.9	663.5	614.9	631.8	727.2						
592.3	581.3	604.7	610.7	591.9	580.6	613.0						
485.2	508.9	546.3	593.8	598.3	581.7	520.3						
369.5	431.3	482.9	547.0	540.2	504.4	437.3						
258.6	318.6	367.2	421.1	419.2	386.4	353.2						
197.9	216.8	235.2	291.8	313.7	288.4	252.2						
93.5	94.2	113.5	139.9	150.0	171.2	168.9						
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°	244.7	244.7	244.7	244.7	244.7	244.7
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	249.9	249.6	249.6	249.6	249.9	249.6
29.5	29.5	29.5	29.5	29.5	29.5	5°	257.5	256.7	256.4	256.4	256.0	256.0
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	267.3	265.8	265.8	264.7	264.3	263.1
40.9	40.9	40.9	40.9	40.9	40.9	10°	280.5	279.0	278.6	275.6	275.6	272.9
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	299.7	299.7	299.7	295.9	295.2	290.7
55.3	55.3	55.3	55.3	55.3	55.3	15°	332.9	329.9	332.5	326.1	325.7	319.7
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	377.8	377.8	372.5	369.5	367.6	358.9
70.5	70.5	70.5	70.5	70.5	70.5	20°	437.3	437.7	428.6	420.4	416.6	406.8
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	513.1	505.9	494.6	488.6	482.6	466.3
85.3	85.3	85.3	85.3	85.3	85.3	25°	612.6	609.6	589.6	567.8	558.7	534.2
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	710.3	703.9	671.8	634.5	611.5	577.9
99.2	99.2	99.2	99.2	99.2	99.2	30°	796.2	754.0	715.9	671.1	636.0	594.1
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	841.1	787.9	732.5	695.6	651.5	605.1
110.1	110.1	110.1	110.1	110.1	110.1	35°	875.8	818.8	763.8	715.9	666.2	613.8
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	919.9	859.9	799.2	742.3	681.6	620.2
119.7	119.7	119.7	119.7	119.7	119.7	40°	968.9	900.3	825.2	756.3	688.0	617.9
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	1009.6	926.7	838.4	760.8	685.8	608.5
127.0	127.0	127.0	127.0	127.0	127.0	45°	1032.2	937.6	839.6	755.9	676.7	596.8
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	1042.8	938.0	832.0	744.9	664.6	580.2
133.5	133.5	133.5	133.5	133.5	133.5	50°	1041.6	928.5	817.7	730.2	651.1	562.9
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	1030.3	913.1	801.1	718.6	639.4	548.2
137.1	137.1	137.1	137.1	137.1	137.1	55°	1013.0	896.5	784.5	710.6	629.6	536.1
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	993.4	882.2	772.5	709.1	623.9	533.8
138.6	138.6	138.6	138.6	138.6	138.6	60°	984.7	883.7	780.0	698.6	620.9	538.7
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	979.1	898.0	795.5	705.7	625.8	559.5
141.1	141.1	141.1	141.1	141.1	141.1	65°	956.1	918.0	819.2	731.4	661.3	608.1
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	928.5	923.6	828.6	746.5	701.6	671.4
						70°	899.9	917.6	842.2	786.0	761.2	749.1
						72.5°	853.9	874.3	804.1	770.6	763.0	754.4
						75°	712.1	715.9	662.4	643.9	657.1	636.7
						77.5°	512.0	521.8	487.1	492.0	535.0	490.8
						80°	379.3	340.8	318.9	333.6	374.7	311.8
						82.5°	312.5	253.0	214.5	234.5	250.3	184.0
						85°	240.5	193.0	158.7	128.2	122.1	78.8
						87.5°	188.9	139.5	77.7	43.7	29.4	1.9
						90°	0.1	0.1	0.1	0.1	0.1	0.1
						92.5°	0.1	0.1	0.1	0.1	0.1	0.1
						95°	0.5	0.5	0.5	0.5	0.5	0.5
						97.5°	1.5	1.5	1.5	1.5	1.5	1.5
						100°	5.0	5.0	5.0	5.0	5.0	5.0
						102.5°	8.8	8.8	8.8	8.8	8.8	8.8
						105°	11.8	11.8	11.8	11.8	11.8	11.8
						107.5°	14.7	14.7	14.7	14.7	14.7	14.7
						110°	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P160173

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**CANDELA DISTRIBUTION (continued):**

360°	330°	335°	340°	345°	350°	355°	360°
244.7	112.5°	21.2	21.2	21.2	21.2	21.2	21.2
249.9	115°	25.0	25.0	25.0	25.0	25.0	25.0
256.0	117.5°	29.5	29.5	29.5	29.5	29.5	29.5
263.1	120°	34.8	34.8	34.8	34.8	34.8	34.8
274.1	122.5°	40.9	40.9	40.9	40.9	40.9	40.9
289.9	125°	47.8	47.8	47.8	47.8	47.8	47.8
318.2	127.5°	55.3	55.3	55.3	55.3	55.3	55.3
354.8	130°	63.0	63.0	63.0	63.0	63.0	63.0
399.6	132.5°	70.5	70.5	70.5	70.5	70.5	70.5
450.1	135°	77.9	77.9	77.9	77.9	77.9	77.9
507.8	137.5°	85.3	85.3	85.3	85.3	85.3	85.3
543.3	140°	92.5	92.5	92.5	92.5	92.5	92.5
550.8	142.5°	99.2	99.2	99.2	99.2	99.2	99.2
556.1	145°	104.9	104.9	104.9	104.9	104.9	104.9
557.6	147.5°	110.1	110.1	110.1	110.1	110.1	110.1
555.3	150°	115.1	115.1	115.1	115.1	115.1	115.1
546.3	152.5°	119.7	119.7	119.7	119.7	119.7	119.7
534.6	155°	123.7	123.7	123.7	123.7	123.7	123.7
519.9	157.5°	127.0	127.0	127.0	127.0	127.0	127.0
501.8	160°	130.3	130.3	130.3	130.3	130.3	130.3
484.8	162.5°	133.5	133.5	133.5	133.5	133.5	133.5
471.6	165°	136.0	136.0	136.0	136.0	136.0	136.0
463.3	167.5°	137.1	137.1	137.1	137.1	137.1	137.1
464.5	170°	137.4	137.4	137.4	137.4	137.4	137.4
476.1	172.5°	138.6	138.6	138.6	138.6	138.6	138.6
505.6	175°	140.5	140.5	140.5	140.5	140.5	140.5
561.3	177.5°	141.1	141.1	141.1	141.1	141.1	141.1
616.0	180°	140.8	140.8	140.8	140.8	140.8	140.8
668.8							
634.1							
484.1							
348.3							
202.1							
126.3							
54.7							
1.9							
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)