

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: P160023

Luminaire Tested: **ENT-E02-LED-E1-SLR-7030-ULG**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P160023  
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-E02-LED-E1-SLR-7030-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4762.8 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

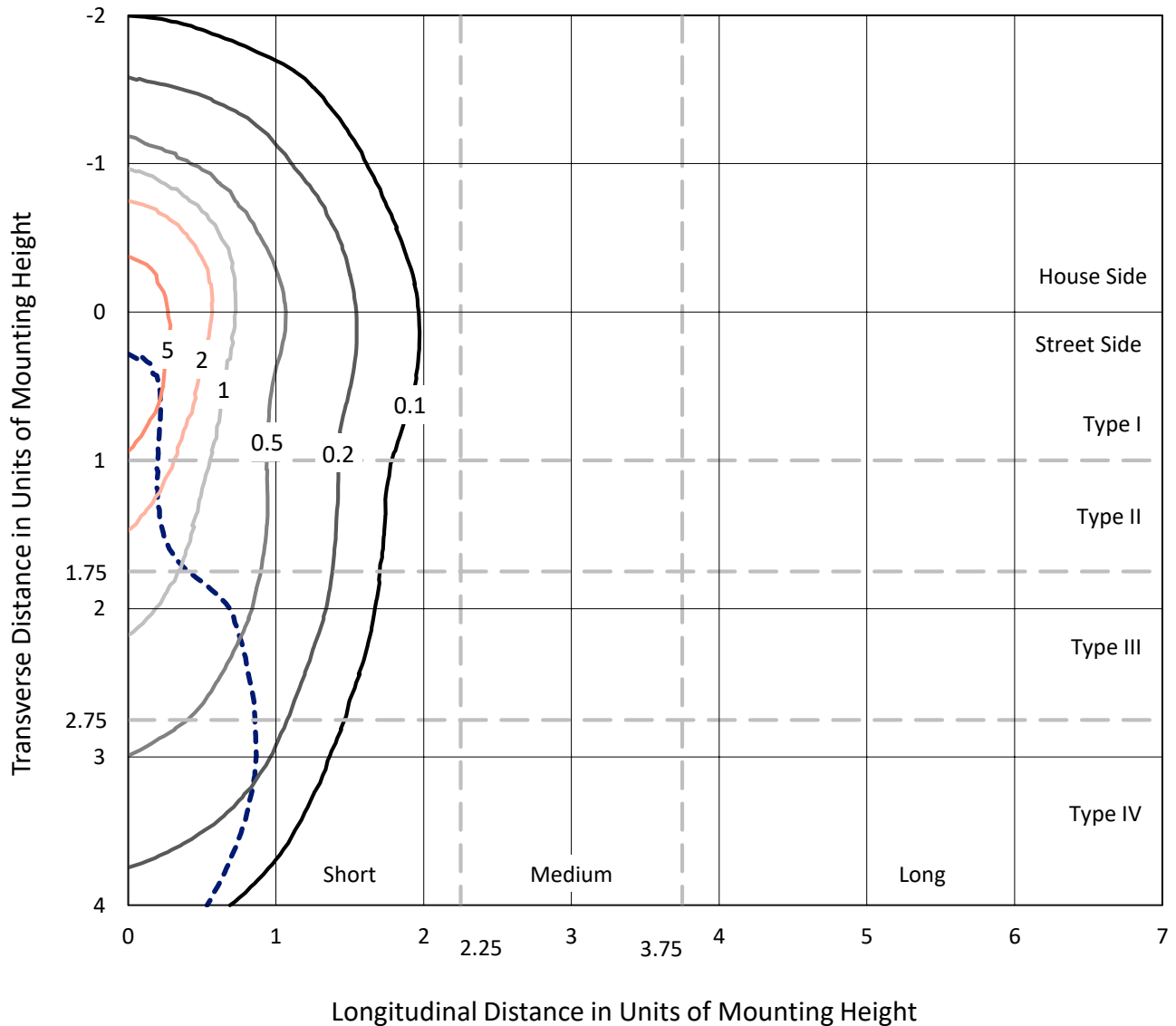
Input Watts (W): 54.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

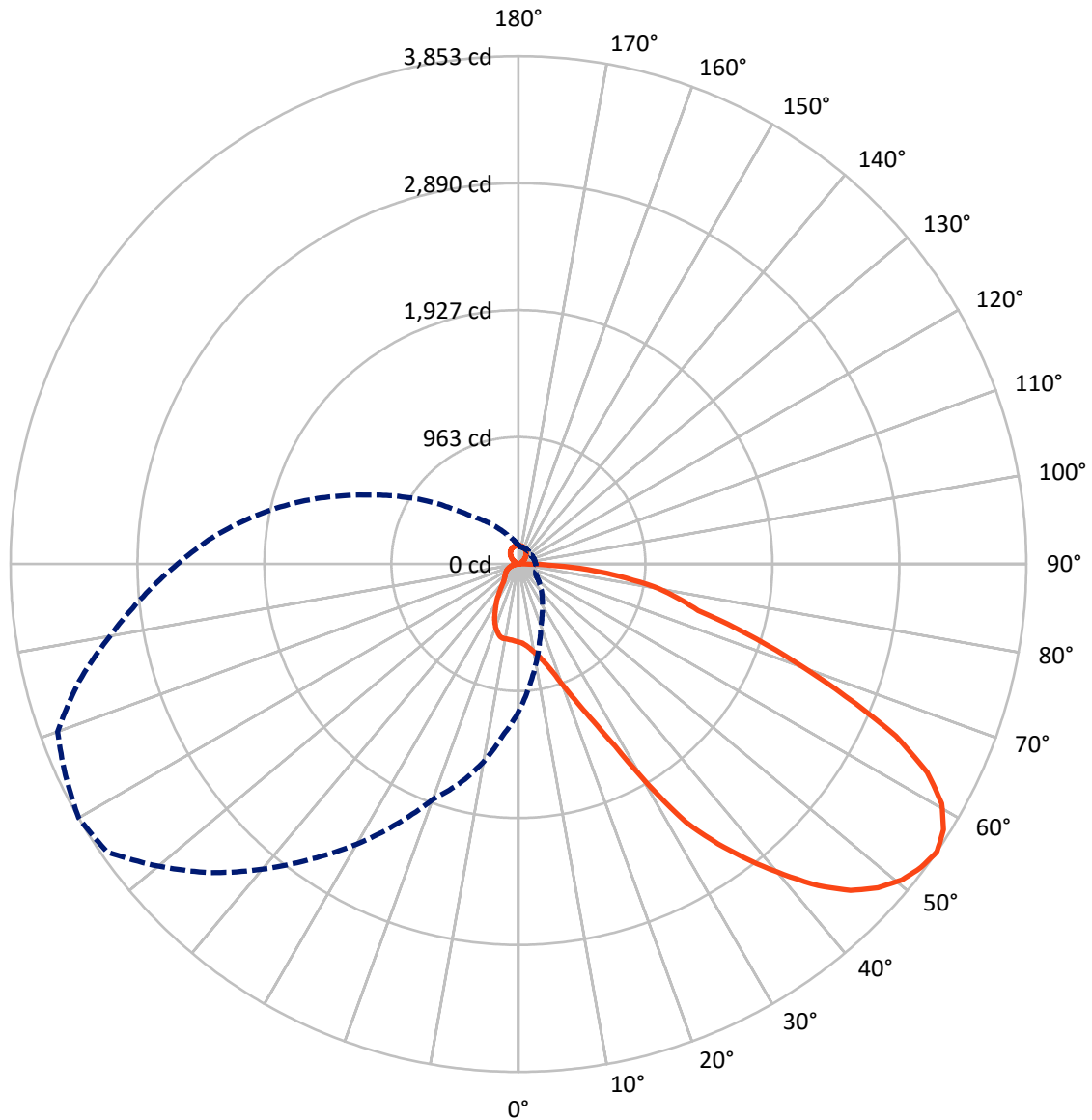
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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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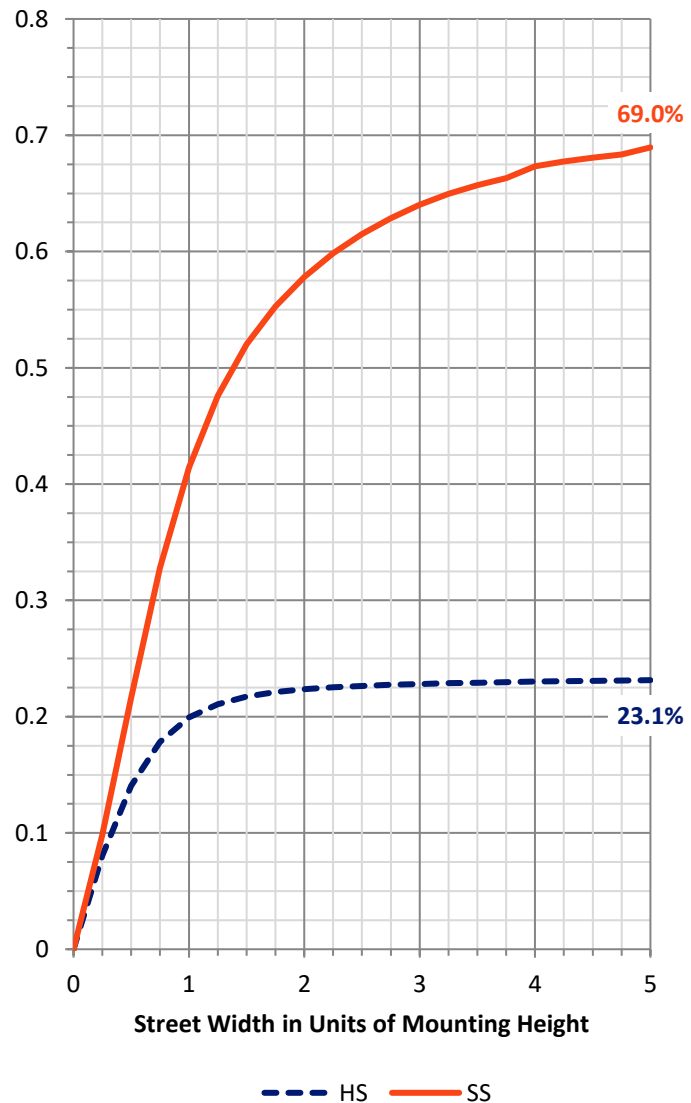
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1111.6	157.7	1269.3
	% Fixture	23.3	3.3	26.7
<b>Street Side</b>	Lumens	3335.7	157.7	3493.4
	% Fixture	70.0	3.3	73.3
<b>Total</b>	Lumens	4447.3	315.5	4762.8
	% Fixture	93.4	6.6	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.2
10°-20°	191.9	4.0
20°-30°	372.4	7.8
30°-40°	585.3	12.3
40°-50°	782.4	16.4
50°-60°	917.9	19.3
60°-70°	870.9	18.3
70°-80°	525.6	11.0
80°-90°	142.4	3.0
90°-100°	1.3	0.0
100°-110°	12.3	0.3
110°-120°	25.2	0.5
120°-130°	43.0	0.9
130°-140°	60.0	1.3
140°-150°	65.4	1.4
150°-160°	56.9	1.2
160°-170°	38.2	0.8
170°-180°	13.3	0.3
0°-90°	4447.3	93.4
0°-180°	4762.8	100.0



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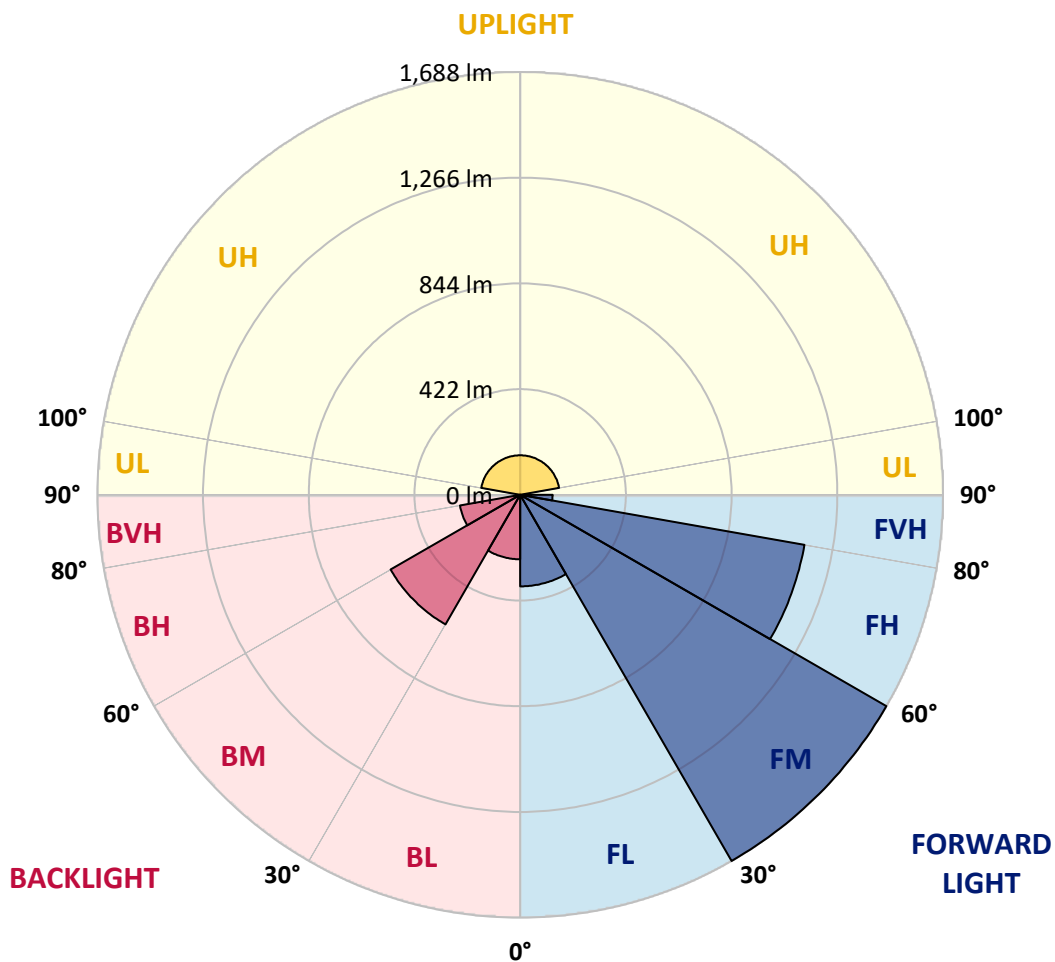
CATALOG NUMBER: ENT-E02-LED-E1-SLR-7030-ULG

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.5	7.7			
FM	(30°-60°)	1688.3	35.4			
FH	(60°-80°)	1152.4	24.2			G1/1800
FVH	(80°-90°)	129.5	2.7			G2/225
BL	(0°-30°)	257.2	5.4	B1/500		
BM	(30°-60°)	597.4	12.5	B1/1000		
BH	(60°-80°)	244.1	5.1	B1/500		G1/500
BVH	(80°-90°)	12.9	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	3.3		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°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	605.6	610.1	604.6	605.6	603.7	601.9	602.8	601.9	600.1	600.1	598.2
5°	620.2	621.1	617.4	616.5	614.7	611.9	612.9	610.1	608.3	606.5	602.8
7.5°	637.5	636.6	632.0	629.3	628.4	623.8	622.9	619.3	616.5	613.8	609.2
10°	664.0	656.7	651.2	646.7	644.8	639.3	634.8	633.0	628.4	622.0	618.3
12.5°	702.4	697.8	686.8	677.7	672.2	664.9	658.5	654.0	646.7	637.5	633.0
15°	770.9	756.3	743.5	729.8	718.8	706.9	691.4	679.5	666.7	651.2	639.3
17.5°	859.5	841.2	821.1	799.2	776.3	750.8	720.6	697.8	672.2	645.7	627.5
20°	968.2	934.4	906.0	864.0	822.0	781.8	734.3	694.1	657.6	622.9	596.4
22.5°	1090.5	1039.4	981.9	917.9	850.3	788.2	721.5	666.7	613.8	570.8	540.7
25°	1230.3	1149.9	1062.2	965.4	868.6	776.3	694.1	625.6	569.0	517.9	484.1
27.5°	1316.1	1206.5	1101.5	986.4	875.9	769.0	668.6	589.1	524.3	469.5	430.2
30°	1334.4	1223.9	1100.6	975.5	861.3	744.4	634.8	546.2	474.0	416.5	377.2
32.5°	1347.2	1219.3	1082.3	943.5	819.3	696.0	584.5	496.9	420.1	363.5	317.8
35°	1350.8	1202.0	1047.6	893.3	762.6	636.6	525.2	432.9	366.3	310.5	269.4
37.5°	1345.4	1173.7	1001.0	841.2	701.5	569.9	460.3	380.0	323.3	269.4	232.9
40°	1323.4	1138.0	959.0	791.0	639.3	503.3	405.5	336.1	287.7	246.6	218.3
42.5°	1295.1	1096.9	912.4	732.5	579.1	450.3	361.7	306.0	264.9	235.6	211.9
45°	1259.5	1054.0	864.0	680.4	527.9	410.1	336.1	289.5	257.6	232.0	210.1
47.5°	1215.7	1008.3	817.4	641.2	493.2	390.0	330.6	289.5	257.6	230.2	206.4
50°	1174.6	967.2	781.8	616.5	477.7	390.9	336.1	293.2	256.7	226.5	200.0
52.5°	1142.6	942.6	767.2	607.4	479.5	400.0	347.1	298.7	259.4	226.5	198.2
55°	1122.5	932.5	765.4	615.6	498.7	424.7	364.4	315.1	272.2	233.8	200.9
57.5°	1125.2	943.5	787.3	649.4	542.5	467.6	399.1	344.3	290.4	243.0	201.9
60°	1153.6	980.0	840.3	728.9	615.6	525.2	443.0	369.9	298.7	240.2	195.5
62.5°	1224.8	1065.9	951.7	837.5	706.0	581.8	469.5	374.5	289.5	226.5	179.9
65°	1360.0	1220.2	1110.6	968.2	780.9	605.6	466.7	360.8	272.2	204.6	158.9
67.5°	1492.4	1344.5	1190.1	975.5	762.6	588.2	436.6	327.0	241.1	175.4	140.7
70°	1620.3	1428.5	1230.3	966.3	709.7	506.0	364.4	273.1	191.8	146.1	120.6
72.5°	1536.3	1315.2	1112.5	852.2	610.1	415.6	290.4	198.2	147.0	120.6	104.1
75°	1172.7	1019.3	843.0	654.0	450.3	293.2	193.6	140.7	113.3	95.0	84.9
77.5°	843.9	729.8	585.5	429.3	281.3	185.4	131.5	100.5	84.0	71.2	65.8
80°	489.6	420.1	327.9	236.6	160.7	116.0	87.7	71.2	61.2	52.1	50.2
82.5°	306.0	244.8	173.5	116.9	82.2	63.9	51.1	43.8	36.5	32.0	27.4
85°	132.4	95.0	53.9	30.1	22.8	17.4	13.7	11.9	10.0	9.1	7.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.5	5.5	5.5	5.5	4.6
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°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	598.2	596.4	595.5	595.5	593.7	593.7	591.9	592.8	591.9	590.0	589.1
5°	601.9	599.2	597.3	595.5	592.8	591.9	590.0	590.0	587.3	584.5	583.6
7.5°	606.5	602.8	600.1	596.4	592.8	590.9	587.3	585.5	582.7	580.0	579.1
10°	615.6	609.2	604.6	600.1	593.7	590.0	584.5	581.8	579.1	575.4	573.6
12.5°	625.6	617.4	611.0	600.1	593.7	587.3	581.8	576.3	570.8	567.2	566.3
15°	625.6	615.6	601.9	591.9	582.7	573.6	568.1	562.6	556.2	553.5	552.6
17.5°	610.1	592.8	580.0	569.0	560.8	553.5	548.0	545.3	539.8	534.3	532.5
20°	574.5	554.4	539.8	527.9	518.8	511.5	509.6	506.9	504.2	504.2	505.1
22.5°	516.0	494.1	481.3	468.5	458.5	454.8	455.8	458.5	459.4	458.5	464.9
25°	457.6	436.6	419.2	407.4	395.5	398.2	394.6	401.0	403.7	404.6	411.9
27.5°	401.0	378.1	359.9	349.8	344.3	340.7	337.9	346.2	348.0	354.4	360.8
30°	340.7	319.7	298.7	290.4	285.9	283.1	284.1	291.4	295.9	305.1	310.5
32.5°	285.0	259.4	243.9	232.9	228.3	227.4	228.3	233.8	239.3	251.2	259.4
35°	237.5	212.8	200.0	193.6	187.2	184.5	187.2	189.1	190.9	200.9	211.0
37.5°	210.1	192.7	182.7	176.3	171.7	169.0	169.0	168.1	169.0	170.8	175.4
40°	198.2	185.4	176.3	169.9	166.2	164.4	163.5	162.6	161.7	161.7	161.7
42.5°	193.6	179.0	169.9	164.4	162.6	162.6	162.6	161.7	159.8	158.0	157.1
45°	190.0	174.4	164.4	159.8	159.8	159.8	160.7	159.8	158.0	155.3	152.5
47.5°	183.6	168.1	158.9	155.3	155.3	155.3	156.2	155.3	153.4	151.6	148.9
50°	176.3	159.8	150.7	148.0	147.0	147.0	146.1	145.2	144.3	142.5	139.7
52.5°	171.7	154.4	146.1	144.3	142.5	141.6	139.7	138.8	137.0	136.1	133.3
55°	170.8	150.7	143.4	141.6	139.7	137.0	133.3	131.5	127.9	127.0	125.1
57.5°	168.1	147.0	138.8	134.3	129.7	127.0	123.3	121.5	119.6	117.8	116.0
60°	158.9	136.1	126.0	123.3	120.6	119.6	117.8	116.0	113.3	110.5	106.9
62.5°	141.6	122.4	116.0	115.1	114.2	112.3	110.5	107.8	105.9	102.3	98.6
65°	127.9	115.1	111.4	109.6	108.7	105.9	104.1	102.3	99.6	96.8	93.2
67.5°	116.0	106.9	105.0	102.3	101.4	99.6	96.8	95.0	92.2	89.5	85.9
70°	105.0	97.7	96.8	95.0	93.2	92.2	88.6	85.9	84.9	81.3	78.5
72.5°	93.2	88.6	86.8	84.9	83.1	82.2	80.4	78.5	76.7	73.1	69.4
75°	77.6	75.8	74.9	73.1	72.2	70.3	67.6	64.8	63.9	61.2	58.5
77.5°	62.1	60.3	60.3	58.5	55.7	53.0	50.2	46.6	46.6	46.6	44.8
80°	43.8	42.0	39.3	38.4	36.5	34.7	32.0	30.1	28.3	28.3	28.3
82.5°	25.6	24.7	22.8	20.1	18.3	17.4	14.6	12.8	11.9	10.0	10.0
85°	5.5	5.5	3.7	3.7	2.7	2.7	2.7	1.8	1.8	0.9	0.9
87.5°	4.6	4.6	4.6	3.7	3.7	3.7	2.7	2.7	2.7	1.8	1.8
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°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	589.1	588.2	586.4	582.7	581.8	580.9	581.8	581.8	580.9	581.8	582.7
5°	583.6	582.7	580.0	578.2	576.3	576.3	581.8	581.8	579.1	580.0	583.6
7.5°	579.1	579.1	577.2	576.3	577.2	580.0	584.5	588.2	587.3	592.8	594.6
10°	573.6	574.5	575.4	579.1	584.5	589.1	596.4	602.8	604.6	609.2	611.9
12.5°	568.1	571.8	576.3	583.6	590.9	598.2	606.5	613.8	614.7	619.3	622.9
15°	554.4	559.9	566.3	574.5	585.5	593.7	605.6	611.0	612.9	615.6	620.2
17.5°	533.4	536.1	540.7	549.8	561.7	572.7	586.4	595.5	601.0	604.6	606.5
20°	505.1	510.6	513.3	521.5	527.9	536.1	554.4	566.3	577.2	582.7	588.2
22.5°	465.8	472.2	478.6	486.8	490.5	495.9	513.3	531.6	548.0	559.0	565.4
25°	416.5	423.8	432.9	443.0	447.5	453.0	473.1	491.4	511.5	530.7	539.8
27.5°	367.2	376.3	385.4	397.3	404.6	411.0	428.4	445.7	466.7	485.0	494.1
30°	319.7	332.5	340.7	354.4	360.8	367.2	382.7	401.9	416.5	437.5	449.4
32.5°	270.4	279.5	295.0	310.5	317.8	324.2	338.9	355.3	368.1	389.1	406.4
35°	225.6	233.8	250.3	265.8	270.4	280.4	295.0	309.6	321.5	340.7	357.1
37.5°	183.6	197.3	210.1	221.9	232.0	239.3	253.0	265.8	272.2	290.4	307.8
40°	163.5	169.9	179.0	190.0	196.4	203.7	213.7	224.7	232.0	244.8	259.4
42.5°	156.2	156.2	158.9	164.4	172.6	176.3	185.4	190.9	200.9	206.4	219.2
45°	150.7	148.9	149.8	149.8	152.5	155.3	162.6	168.1	174.4	179.0	187.2
47.5°	146.1	142.5	141.6	139.7	138.8	140.7	146.1	150.7	153.4	157.1	159.8
50°	136.1	133.3	130.6	128.8	127.9	129.7	134.3	137.9	138.8	140.7	142.5
52.5°	130.6	127.0	124.2	121.5	121.5	123.3	127.0	129.7	130.6	131.5	133.3
55°	123.3	121.5	119.6	116.9	116.0	118.7	121.5	124.2	126.0	126.0	127.9
57.5°	114.2	112.3	114.2	113.3	112.3	114.2	117.8	120.6	121.5	121.5	122.4
60°	105.0	104.1	104.1	105.9	107.8	110.5	113.3	116.9	116.0	114.2	115.1
62.5°	96.8	95.9	96.8	99.6	102.3	105.0	108.7	111.4	108.7	106.9	106.9
65°	91.3	90.4	91.3	92.2	93.2	95.9	100.5	101.4	99.6	99.6	99.6
67.5°	84.0	83.1	82.2	83.1	84.0	84.9	88.6	89.5	89.5	89.5	89.5
70°	74.9	74.0	73.1	73.1	73.1	74.0	74.9	76.7	78.5	80.4	81.3
72.5°	64.8	63.0	63.0	63.0	61.2	62.1	63.0	66.7	68.5	70.3	72.2
75°	54.8	53.0	53.0	51.1	52.1	53.0	53.0	54.8	56.6	59.4	61.2
77.5°	42.9	42.9	42.9	42.0	42.0	42.9	43.8	43.8	45.7	48.4	51.1
80°	27.4	27.4	29.2	30.1	31.1	32.0	33.8	34.7	35.6	38.4	39.3
82.5°	10.0	11.0	11.9	11.9	14.6	18.3	19.2	21.9	23.7	26.5	26.5
85°	0.9	0.9	0.9	0.9	0.9	1.8	2.7	3.7	5.5	8.2	10.0
87.5°	1.8	0.9	0.9	0.9	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°
592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	112.5°	21.2
583.6	586.4	585.5	584.5	585.5	587.3	586.4	587.3	588.2	590.0	589.1	115°	25.0
584.5	587.3	588.2	588.2	590.0	592.8	592.8	593.7	594.6	596.4	596.4	117.5°	29.5
597.3	603.7	603.7	604.6	607.4	610.1	611.0	611.9	611.0	611.0	611.0	120°	34.8
616.5	623.8	624.7	629.3	633.0	632.0	632.0	633.0	631.1	629.3	626.6	122.5°	40.9
626.6	633.0	634.8	639.3	644.8	645.7	648.5	650.3	648.5	643.9	639.3	125°	47.8
623.8	629.3	633.0	638.4	644.8	648.5	654.0	655.8	654.9	649.4	643.9	127.5°	55.3
611.9	618.3	622.9	630.2	637.5	643.0	648.5	651.2	651.2	646.7	643.0	130°	63.0
592.8	600.1	606.5	614.7	623.8	630.2	636.6	638.4	638.4	636.6	639.3	132.5°	70.5
572.7	580.9	588.2	596.4	608.3	614.7	622.0	627.5	630.2	633.9	645.7	135°	77.9
547.1	550.8	559.9	569.0	585.5	596.4	611.9	626.6	641.2	657.6	681.4	137.5°	85.3
502.3	508.7	519.7	532.5	548.9	569.0	597.3	625.6	652.1	676.8	706.0	140°	92.5
464.9	476.8	488.6	503.3	520.6	539.8	572.7	609.2	641.2	670.4	702.4	142.5°	99.2
424.7	439.3	454.8	474.0	490.5	507.8	535.2	575.4	613.8	646.7	680.4	145°	104.9
378.1	393.7	409.2	429.3	446.6	468.5	493.2	532.5	576.3	613.8	654.0	147.5°	110.1
327.9	341.6	358.9	377.2	397.3	422.9	449.4	485.9	531.6	571.8	617.4	150°	115.1
280.4	295.0	312.4	332.5	352.6	380.0	410.1	444.8	486.8	529.7	578.2	152.5°	119.7
235.6	254.8	273.1	293.2	314.2	339.8	371.7	409.2	451.2	496.9	548.0	155°	123.7
198.2	212.8	232.0	248.4	271.3	295.9	328.8	370.8	419.2	467.6	521.5	157.5°	127.0
165.3	174.4	190.9	211.0	232.0	257.6	285.0	327.0	376.3	429.3	489.6	160°	130.3
145.2	149.8	161.7	179.9	200.0	225.6	249.3	285.9	335.2	387.3	449.4	162.5°	133.5
135.2	137.0	143.4	157.1	176.3	199.1	224.7	255.7	299.6	350.7	410.1	165°	136.0
129.7	130.6	132.4	142.5	158.9	179.9	205.5	230.2	269.4	317.8	375.4	167.5°	137.1
123.3	124.2	125.1	130.6	142.5	160.7	182.7	202.8	238.4	281.3	336.1	170°	137.4
116.9	118.7	120.6	122.4	130.6	142.5	158.9	176.3	200.9	238.4	283.1	172.5°	138.6
108.7	110.5	113.3	115.1	117.8	125.1	135.2	146.1	158.9	185.4	221.9	175°	140.5
101.4	103.2	104.1	105.0	106.9	108.7	112.3	115.1	121.5	137.0	162.6	177.5°	141.1
91.3	93.2	93.2	94.1	95.0	95.0	96.8	97.7	99.6	104.1	115.1	180°	140.8
83.1	84.0	84.9	85.9	85.9	85.9	84.9	85.9	84.9	84.9	89.5		
73.1	74.0	74.9	75.8	76.7	77.6	78.5	78.5	77.6	75.8	75.8		
62.1	62.1	63.9	64.8	65.8	68.5	70.3	68.5	68.5	67.6	67.6		
52.1	53.9	54.8	54.8	56.6	59.4	61.2	60.3	57.5	57.5	58.5		
40.2	41.1	42.0	42.9	43.8	46.6	49.3	50.2	48.4	49.3	49.3		
26.5	27.4	29.2	30.1	31.1	33.8	36.5	39.3	38.4	40.2	38.4		
11.9	13.7	14.6	14.6	17.4	20.1	23.7	26.5	30.1	31.1	28.3		
0.0	0.9	0.9	0.9	3.7	6.4	11.9	18.3	24.7	19.2	14.6		
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°	592.8	592.8
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	589.1	590.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	597.3	597.3
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	609.2	609.2
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	624.7	622.0
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	633.9	629.3
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	639.3	634.8
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	641.2	641.2
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	645.7	653.0
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	661.3	679.5
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	706.9	732.5
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	742.6	776.3
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	745.3	787.3
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	728.9	774.5
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	704.2	756.3
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	674.1	732.5
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	639.3	699.6
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	607.4	669.5
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	584.5	650.3
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	559.9	630.2
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	520.6	603.7
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	478.6	561.7
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	440.2	519.7
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	399.1	479.5
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	345.2	425.6
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	275.8	351.6
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	198.2	262.1
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	134.3	178.1
										70°	97.7	121.5
										72.5°	79.5	91.3
										75°	70.3	76.7
										77.5°	62.1	65.8
										80°	49.3	53.0
										82.5°	38.4	42.0
										85°	28.3	31.1
										87.5°	12.8	12.8
										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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**tinued):**

**CANDELA DISTRIBUTION (continued):**

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	112.5°	21.2	21.2	21.2
590.9	591.9	591.9	593.7	594.6	596.4	597.3	597.3	597.3	115°	25.0	25.0	25.0
599.2	600.1	601.0	603.7	604.6	607.4	610.1	611.0	613.8	117.5°	29.5	29.5	29.5
609.2	611.9	612.9	614.7	616.5	621.1	624.7	626.6	629.3	120°	34.8	34.8	34.8
621.1	622.0	622.0	623.8	628.4	631.1	635.7	643.9	649.4	122.5°	40.9	40.9	40.9
629.3	626.6	628.4	630.2	634.8	641.2	648.5	660.4	671.3	125°	47.8	47.8	47.8
634.8	634.8	639.3	643.0	651.2	661.3	675.0	691.4	707.8	127.5°	55.3	55.3	55.3
644.8	647.6	657.6	664.9	679.5	694.1	711.5	734.3	759.0	130°	63.0	63.0	63.0
663.1	670.4	681.4	693.2	707.8	729.8	759.0	788.2	821.1	132.5°	70.5	70.5	70.5
692.3	708.8	727.0	741.6	759.0	790.0	822.0	858.5	899.7	135°	77.9	77.9	77.9
756.3	774.5	801.9	826.6	851.2	896.0	937.1	979.1	1034.8	137.5°	85.3	85.3	85.3
812.0	841.2	884.1	919.7	953.5	1007.4	1053.1	1122.5	1181.9	140°	92.5	92.5	92.5
835.7	883.2	937.1	988.2	1051.3	1104.2	1171.8	1254.9	1332.6	142.5°	99.2	99.2	99.2
830.2	887.8	955.4	1024.8	1099.7	1184.6	1262.3	1355.4	1456.8	145°	104.9	104.9	104.9
817.4	882.3	960.8	1044.0	1133.5	1239.4	1337.1	1453.1	1579.2	147.5°	110.1	110.1	110.1
801.9	877.7	965.4	1063.1	1175.5	1301.5	1427.6	1579.2	1736.3	150°	115.1	115.1	115.1
778.2	864.9	970.9	1092.4	1230.3	1378.2	1543.6	1724.4	1893.4	152.5°	119.7	119.7	119.7
751.7	849.4	977.3	1132.6	1306.1	1489.7	1680.6	1865.1	2057.8	155°	123.7	123.7	123.7
734.3	844.8	993.7	1179.1	1381.0	1593.8	1806.6	2008.5	2218.5	157.5°	127.0	127.0	127.0
724.3	847.6	1011.1	1213.8	1436.7	1671.4	1897.0	2129.0	2349.1	160°	130.3	130.3	130.3
715.2	854.9	1026.6	1235.8	1472.3	1721.7	1968.3	2218.5	2462.4	162.5°	133.5	133.5	133.5
691.4	852.2	1032.1	1242.2	1490.6	1754.5	2017.6	2281.5	2540.9	165°	136.0	136.0	136.0
650.3	826.6	1020.2	1235.8	1496.1	1773.7	2049.6	2328.1	2585.7	167.5°	137.1	137.1	137.1
595.5	774.5	978.2	1208.4	1476.9	1764.6	2060.5	2358.3	2611.3	170°	137.4	137.4	137.4
534.3	693.2	904.2	1145.3	1414.8	1708.9	2012.1	2330.0	2582.0	172.5°	138.6	138.6	138.6
450.3	591.9	803.7	1038.5	1301.5	1593.8	1868.7	2215.8	2472.4	175°	140.5	140.5	140.5
344.3	470.4	653.0	892.3	1160.0	1415.7	1665.0	2012.1	2297.1	177.5°	141.1	141.1	141.1
237.5	335.2	488.6	697.8	948.1	1183.7	1432.1	1756.4	2088.8	180°	140.8	140.8	140.8
154.4	217.4	323.3	484.1	682.3	899.7	1106.1	1402.9	1759.1				
109.6	138.8	197.3	298.7	449.4	617.4	786.4	987.3	1327.1				
86.8	101.4	121.5	173.5	263.0	384.5	520.6	647.6	931.6				
70.3	76.7	86.8	106.9	155.3	221.9	306.9	408.3	579.1				
56.6	61.2	67.6	75.8	95.9	127.9	178.1	224.7	330.6				
45.7	51.1	53.0	53.9	62.1	73.1	94.1	127.0	189.1				
32.9	34.7	34.7	35.6	37.4	40.2	53.9	93.2	137.9				
12.8	11.0	11.9	9.1	10.0	11.0	17.4	20.1	32.0				
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				
0.5	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°	592.8	592.8	592.8	592.8
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	600.1	600.1	599.2	599.2
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	615.6	618.3	616.5	619.3
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	635.7	637.5	639.3	643.0
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	656.7	663.1	669.5	672.2
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	681.4	693.2	706.0	712.4
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	724.3	742.6	757.2	767.2
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	780.9	805.6	830.2	847.6
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	853.1	888.7	923.4	945.3
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	944.4	986.4	1024.8	1066.8
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	1070.4	1128.9	1196.5	1233.0
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1250.4	1329.8	1377.3	1458.6
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1422.1	1519.8	1634.9	1747.2
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1567.3	1710.7	1879.7	2050.5
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1719.8	1901.6	2097.1	2316.3
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	1902.5	2090.7	2301.6	2541.9
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	2068.7	2283.4	2541.9	2763.8
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2252.3	2480.7	2772.0	3028.7
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	2430.4	2668.8	2987.6	3268.9
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2586.6	2825.9	3165.7	3458.9
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	2711.7	2978.4	3310.0	3591.3
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2809.5	3091.7	3419.6	3682.6
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	2860.6	3145.6	3453.4	3721.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2867.9	3141.9	3425.1	3686.3
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	2798.5	3041.5	3311.8	3584.9
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2643.2	2833.2	3089.9	3360.2
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	2444.1	2568.3	2739.1	3004.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2248.7	2330.9	2420.4	2615.8
								70°	1948.2	2016.7	2106.2	2227.7
								72.5°	1515.2	1605.7	1669.6	1787.4
								75°	1138.9	1191.0	1283.3	1391.9
								77.5°	801.0	854.0	959.0	1083.2
								80°	538.0	574.5	639.3	746.2
								82.5°	329.7	371.7	426.5	518.8
								85°	221.0	286.8	357.1	426.5
								87.5°	93.2	157.1	199.1	209.2
								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°
592.8	592.8	592.8	592.8	592.8	592.8	592.8	112.5°	21.2	21.2	21.2	21.2	21.2
601.9	601.0	602.8	602.8	601.9	601.9	604.6	115°	25.0	25.0	25.0	25.0	25.0
621.1	622.0	623.8	622.0	625.6	621.1	622.0	117.5°	29.5	29.5	29.5	29.5	29.5
647.6	648.5	651.2	650.3	653.0	650.3	646.7	120°	34.8	34.8	34.8	34.8	34.8
681.4	683.2	683.2	687.8	692.3	686.8	680.4	122.5°	40.9	40.9	40.9	40.9	40.9
720.6	727.0	724.3	733.4	738.0	734.3	729.8	125°	47.8	47.8	47.8	47.8	47.8
774.5	787.3	785.5	802.8	809.2	806.5	807.4	127.5°	55.3	55.3	55.3	55.3	55.3
854.9	873.2	875.9	903.3	920.7	917.9	913.4	130°	63.0	63.0	63.0	63.0	63.0
948.1	995.6	1006.5	1030.3	1049.4	1056.7	1055.8	132.5°	70.5	70.5	70.5	70.5	70.5
1106.1	1140.8	1165.4	1208.4	1225.7	1242.2	1237.6	135°	77.9	77.9	77.9	77.9	77.9
1286.0	1318.0	1372.8	1427.6	1444.9	1460.4	1480.5	137.5°	85.3	85.3	85.3	85.3	85.3
1516.2	1562.7	1649.5	1723.5	1765.5	1752.7	1746.3	140°	92.5	92.5	92.5	92.5	92.5
1827.6	1944.5	2008.5	2068.7	2096.1	2056.0	2004.8	142.5°	99.2	99.2	99.2	99.2	99.2
2200.3	2337.3	2377.5	2406.7	2354.6	2299.8	2150.0	145°	104.9	104.9	104.9	104.9	104.9
2473.4	2607.6	2690.7	2721.8	2610.4	2447.8	2245.0	147.5°	110.1	110.1	110.1	110.1	110.1
2720.0	2856.0	2892.6	2906.3	2756.5	2546.4	2349.1	150°	115.1	115.1	115.1	115.1	115.1
2982.1	3096.3	3117.3	3110.0	2910.8	2662.4	2477.9	152.5°	119.7	119.7	119.7	119.7	119.7
3220.5	3337.4	3318.2	3286.2	3059.7	2808.6	2604.9	155°	123.7	123.7	123.7	123.7	123.7
3447.0	3532.8	3498.1	3418.7	3200.4	2920.9	2704.4	157.5°	127.0	127.0	127.0	127.0	127.0
3598.6	3670.8	3633.3	3532.8	3297.2	2996.7	2759.2	160°	130.3	130.3	130.3	130.3	130.3
3713.7	3768.5	3746.6	3601.3	3353.8	3043.3	2783.9	162.5°	133.5	133.5	133.5	133.5	133.5
3771.2	3825.1	3812.3	3614.1	3361.1	3050.6	2772.0	165°	136.0	136.0	136.0	136.0	136.0
3792.2	3853.4	3808.7	3566.6	3312.7	3023.2	2730.9	167.5°	137.1	137.1	137.1	137.1	137.1
3774.9	3803.2	3737.4	3476.2	3214.1	2938.2	2672.5	170°	137.4	137.4	137.4	137.4	137.4
3710.9	3690.8	3600.4	3319.1	3074.3	2820.4	2607.6	172.5°	138.6	138.6	138.6	138.6	138.6
3531.9	3479.9	3406.8	3137.4	2888.0	2634.1	2507.1	175°	140.5	140.5	140.5	140.5	140.5
3162.9	3148.3	3114.5	2914.5	2667.0	2424.9	2343.7	177.5°	141.1	141.1	141.1	141.1	141.1
2689.8	2675.2	2679.8	2544.6	2365.6	2129.9	2131.8	180°	140.8	140.8	140.8	140.8	140.8
2306.2	2225.8	2130.8	1985.6	1881.5	1849.5	1952.7						
1855.9	1812.1	1734.5	1607.5	1489.7	1530.8	1761.9						
1434.9	1408.4	1465.0	1479.6	1434.0	1406.6	1485.1						
1175.5	1233.0	1323.4	1438.5	1449.5	1409.3	1260.4						
895.1	1044.9	1170.0	1325.3	1308.8	1222.1	1059.5						
626.6	771.8	889.6	1020.2	1015.6	936.2	855.8						
479.5	525.2	569.9	706.9	759.9	698.7	611.0						
226.5	228.3	274.9	338.9	363.5	414.7	409.2						
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						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.5	1.5	1.5	1.5	1.5	1.5	1.5						
5.0	5.0	5.0	5.0	5.0	5.0	5.0						
8.8	8.8	8.8	8.8	8.8	8.8	8.8						
11.8	11.8	11.8	11.8	11.8	11.8	11.8						
14.7	14.7	14.7	14.7	14.7	14.7	14.7						
17.8	17.8	17.8	17.8	17.8	17.8	17.8						



REPORT NUMBER: P160023

CATALOG NUMBER: ENT-E02-LED-E1-SLR-7030-ULG

**CANDELA DISTRIBUTION (continued):**

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
21.2	21.2	21.2	21.2	21.2	21.2	0°	592.8	592.8	592.8	592.8	592.8	592.8
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	605.6	604.6	604.6	604.6	605.6	604.6
29.5	29.5	29.5	29.5	29.5	29.5	5°	623.8	622.0	621.1	621.1	620.2	620.2
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	647.6	643.9	643.9	641.2	640.3	637.5
40.9	40.9	40.9	40.9	40.9	40.9	10°	679.5	675.9	675.0	667.7	667.7	661.3
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	726.1	726.1	726.1	717.0	715.2	704.2
55.3	55.3	55.3	55.3	55.3	55.3	15°	806.5	799.2	805.6	790.0	789.1	774.5
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	915.2	915.2	902.4	895.1	890.5	869.5
70.5	70.5	70.5	70.5	70.5	70.5	20°	1059.5	1060.4	1038.5	1018.4	1009.3	985.5
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1243.1	1225.7	1198.3	1183.7	1169.1	1129.8
85.3	85.3	85.3	85.3	85.3	85.3	25°	1484.2	1476.9	1428.5	1375.5	1353.6	1294.2
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1720.8	1705.2	1627.6	1537.2	1481.5	1400.2
99.2	99.2	99.2	99.2	99.2	99.2	30°	1929.0	1826.7	1734.5	1625.8	1540.8	1439.4
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	2037.7	1908.9	1774.6	1685.1	1578.3	1465.9
110.1	110.1	110.1	110.1	110.1	110.1	35°	2121.7	1983.8	1850.4	1734.5	1613.9	1486.9
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2228.6	2083.4	1936.3	1798.4	1651.3	1502.5
119.7	119.7	119.7	119.7	119.7	119.7	40°	2347.3	2181.1	1999.3	1832.2	1666.9	1497.0
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2446.0	2245.0	2031.3	1843.1	1661.4	1474.1
127.0	127.0	127.0	127.0	127.0	127.0	45°	2500.8	2271.5	2034.0	1831.3	1639.5	1445.8
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2526.3	2272.4	2015.8	1804.8	1610.2	1405.6
133.5	133.5	133.5	133.5	133.5	133.5	50°	2523.6	2249.6	1981.1	1769.2	1577.4	1363.6
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2496.2	2212.1	1940.9	1740.8	1549.0	1328.0
137.1	137.1	137.1	137.1	137.1	137.1	55°	2454.2	2171.9	1900.7	1721.7	1525.3	1298.8
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2406.7	2137.2	1871.5	1718.0	1511.6	1293.3
138.6	138.6	138.6	138.6	138.6	138.6	60°	2385.7	2140.9	1889.7	1692.4	1504.3	1305.2
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2372.0	2175.6	1927.2	1709.8	1516.2	1355.4
141.1	141.1	141.1	141.1	141.1	141.1	65°	2316.3	2224.0	1984.7	1771.9	1602.0	1473.2
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2249.6	2237.7	2007.5	1808.4	1699.7	1626.7
						70°	2180.2	2223.1	2040.4	1904.3	1844.1	1814.8
						72.5°	2068.7	2118.1	1948.2	1866.9	1848.6	1827.6
						75°	1725.3	1734.5	1604.8	1560.0	1592.0	1542.6
						77.5°	1240.3	1264.1	1180.0	1191.9	1296.0	1189.2
						80°	918.8	825.7	772.7	808.3	907.9	755.3
						82.5°	757.2	612.9	519.7	568.1	606.5	445.7
						85°	582.7	467.6	384.5	310.5	295.9	190.9
						87.5°	457.6	337.9	188.2	105.9	71.2	4.6
						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: P160023

CATALOG NUMBER: ENT-E02-LED-E1-SLR-7030-ULG

**CANDELA DISTRIBUTION (continued):**

360°		330°	335°	340°	345°	350°	355°	360°
592.8	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
605.6	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
620.2	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
637.5	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
664.0	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
702.4	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
770.9	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
859.5	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
968.2	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
1090.5	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
1230.3	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1316.1	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1334.4	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1347.2	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
1350.8	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
1345.4	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
1323.4	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
1295.1	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
1259.5	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
1215.7	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
1174.6	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
1142.6	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
1122.5	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
1125.2	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
1153.6	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
1224.8	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
1360.0	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
1492.4	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
1620.3								
1536.3								
1172.7								
843.9								
489.6								
306.0								
132.4								
4.6								
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)