

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: McGRAW-EDISON

Report Number: P228198

Luminaire Tested: **ISS-AF-350-LED-E1-SL3-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-350-LED-E1-SL3-7050-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

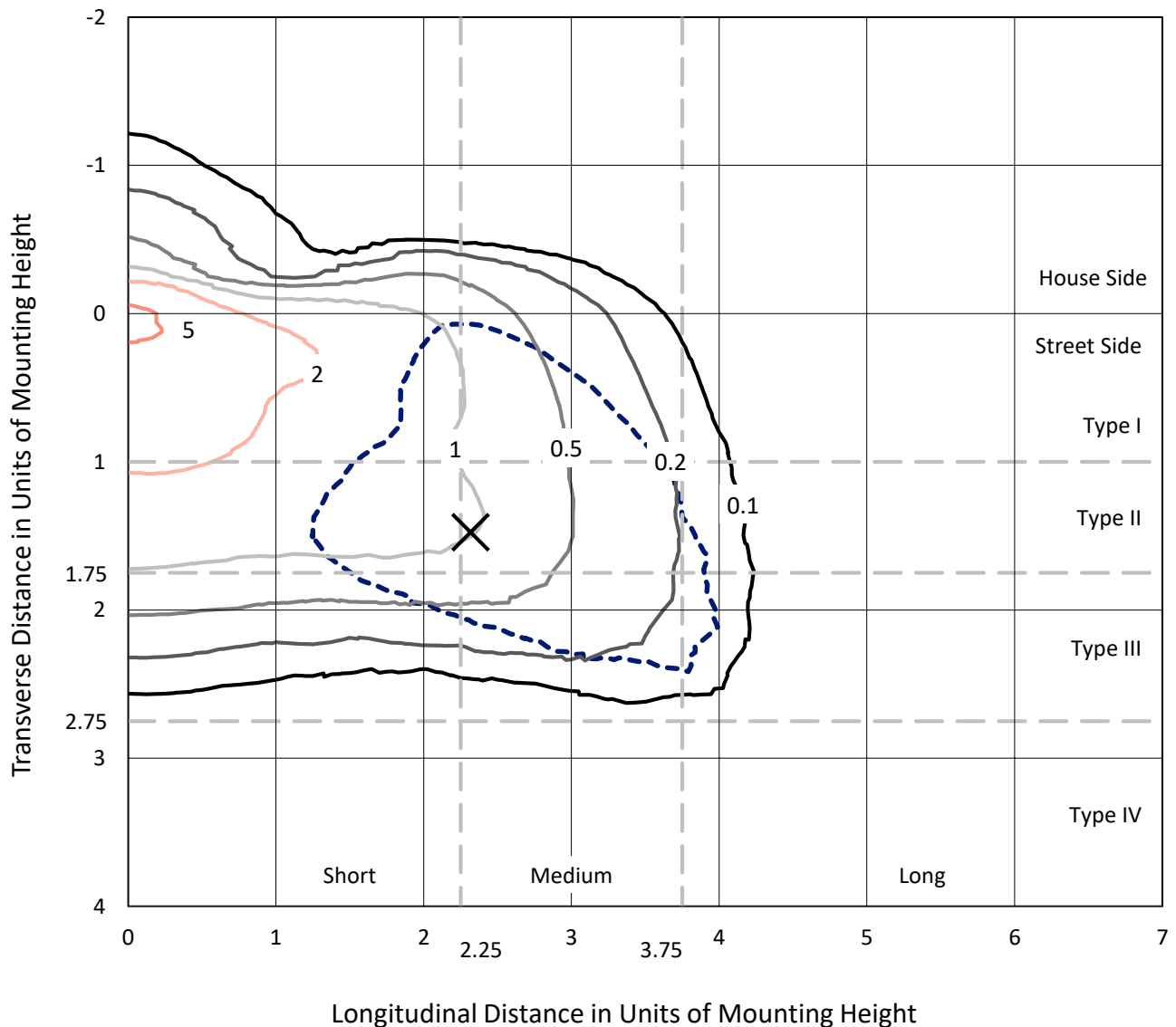
Lumens per Lamp: N/A  
Luminaire Lumens: 3646.2 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B0 - U5 - G1  
  
Input Watts (W): 36.79  
Input Voltage (V): 120  
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

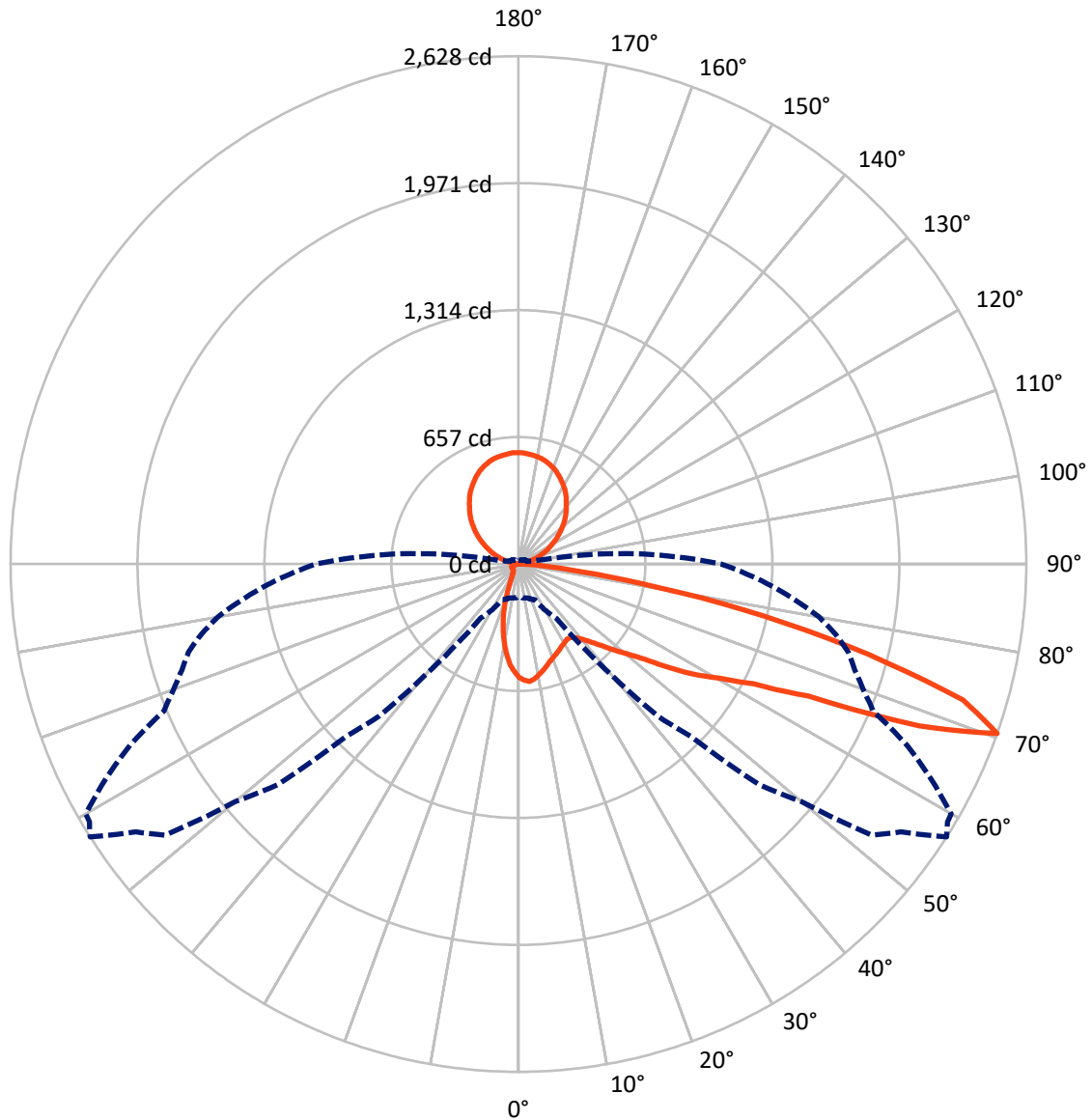
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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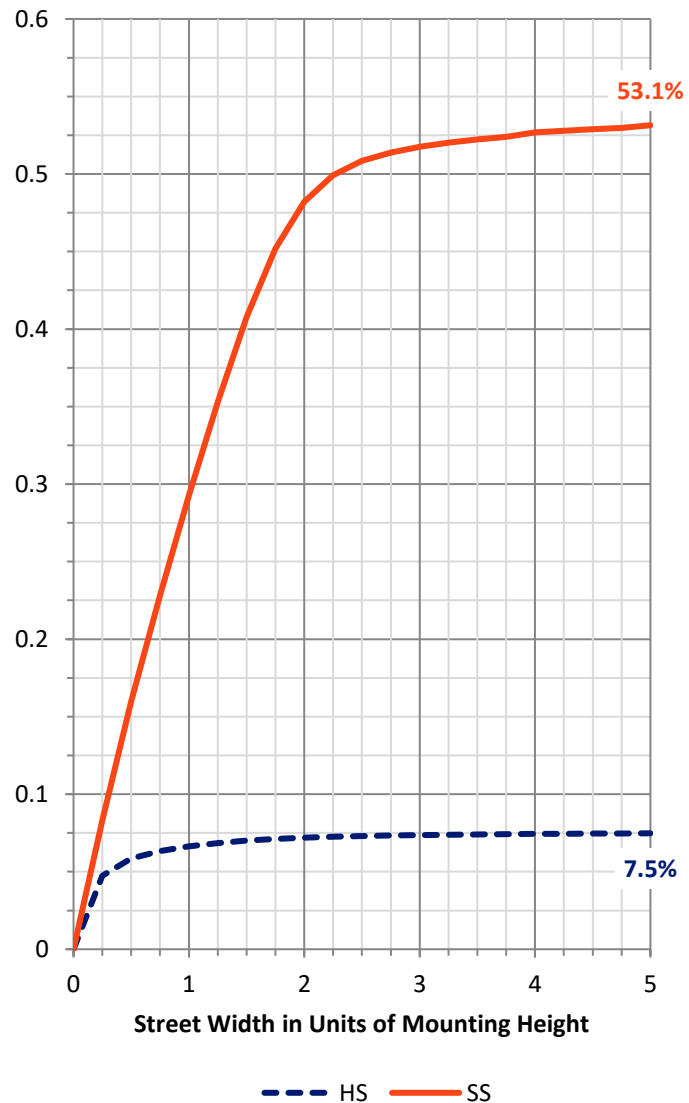
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	274.7	713.1	987.8
	% Fixture	7.5	19.6	27.1
<b>Street Side</b>	Lumens	1945.3	713.1	2658.4
	% Fixture	53.4	19.6	72.9
<b>Total</b>	Lumens	2220.0	1426.2	3646.2
	% Fixture	60.9	39.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	1.4
10°-20°	110.2	3.0
20°-30°	138.4	3.8
30°-40°	180.9	5.0
40°-50°	271.4	7.4
50°-60°	429.1	11.8
60°-70°	618.5	17.0
70°-80°	382.8	10.5
80°-90°	38.0	1.0
90°-100°	4.7	0.1
100°-110°	69.0	1.9
110°-120°	153.0	4.2
120°-130°	223.9	6.1
130°-140°	265.6	7.3
140°-150°	269.3	7.4
150°-160°	231.1	6.3
160°-170°	155.1	4.3
170°-180°	54.3	1.5
0°-90°	2220.0	60.9
0°-180°	3646.2	100.0



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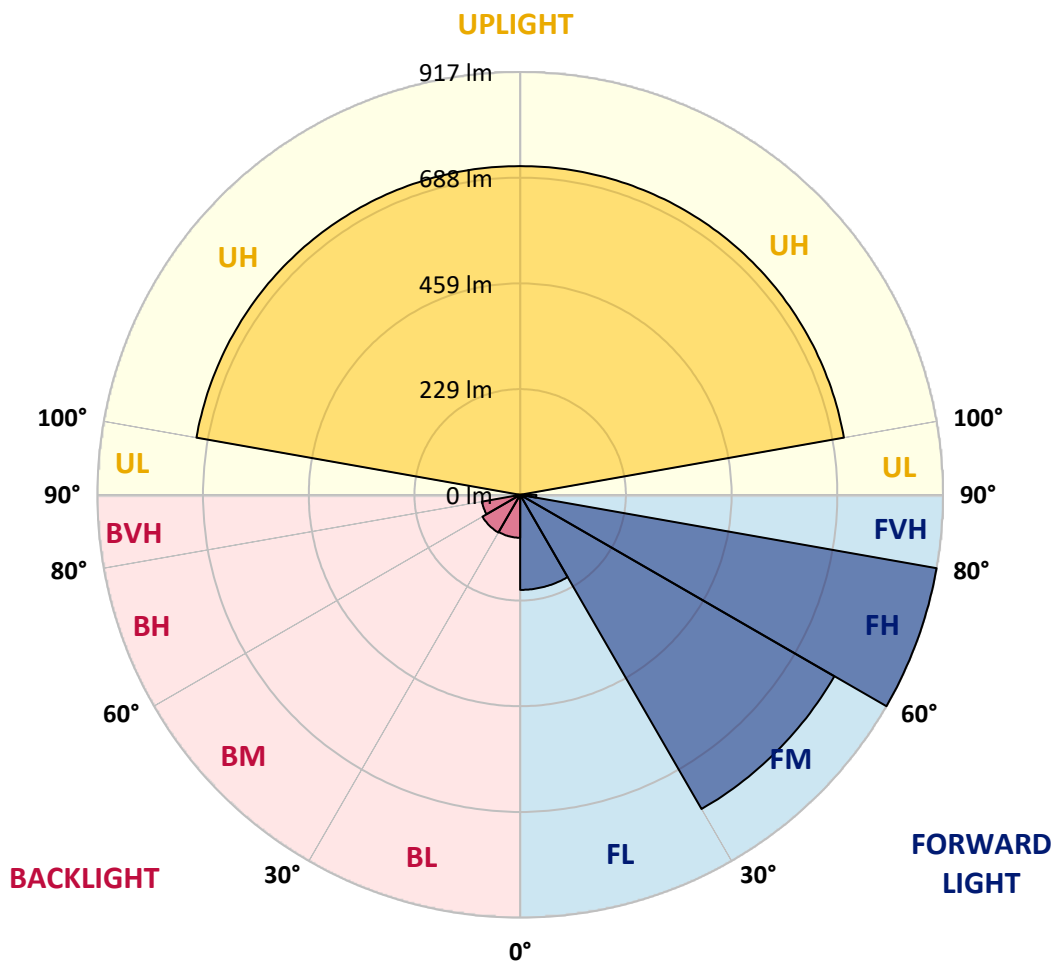
CATALOG NUMBER: ISS-AF-350-LED-E1-SL3-7050-ULG

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.2	5.7			
FM (30°-60°)	787.0	21.6			
FH (60°-80°)	917.2	25.2			G1/1800
FVH (80°-90°)	34.9	1.0			G1/100
BL (0°-30°)	93.1	2.6	B0/110		
BM (30°-60°)	94.5	2.6	B0/220		
BH (60°-80°)	84.1	2.3	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	4.7	0.1		U1/10	
UH (100°-180°)	713.1	19.6		U4/1000	

**BUG Rating: B0-U5-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6
2.5°	616.7	616.0	614.4	611.2	609.7	611.2	609.7	607.3	604.1	606.5	604.9
5°	615.2	616.7	613.6	611.2	615.2	616.7	613.6	613.6	610.4	613.6	612.0
7.5°	584.4	585.2	586.0	585.2	595.5	595.5	593.9	595.5	596.3	597.8	598.6
10°	545.9	546.6	548.2	550.6	563.2	564.8	565.5	567.1	569.5	571.1	575.8
12.5°	507.3	508.8	512.0	519.9	533.2	534.8	537.2	539.5	543.5	545.9	554.5
15°	475.0	475.7	478.9	487.6	507.3	511.2	512.8	515.9	523.8	523.8	533.2
17.5°	445.0	446.6	449.0	459.2	478.9	485.2	489.9	491.5	501.7	504.1	515.1
20°	422.2	423.0	423.8	433.2	451.3	460.8	464.7	471.0	478.9	485.2	494.7
22.5°	409.6	410.4	408.8	412.7	428.5	440.3	445.0	451.3	454.5	465.5	471.0
25°	410.4	411.2	407.2	404.9	412.7	425.3	429.3	435.6	434.0	449.8	449.8
27.5°	418.2	419.8	415.9	408.8	409.6	419.8	422.2	424.6	419.8	435.6	432.4
30°	434.0	435.6	430.9	425.3	416.7	423.0	423.0	423.0	414.3	427.7	422.2
32.5°	450.5	452.1	450.5	446.6	435.6	437.2	434.0	432.4	420.6	431.6	423.0
35°	475.0	475.7	476.5	476.5	460.8	463.9	455.3	450.5	439.5	448.2	436.4
37.5°	504.1	504.1	509.6	512.0	494.7	494.7	485.2	478.9	468.7	471.8	460.0
40°	530.1	532.5	545.1	552.2	536.4	530.1	522.2	516.7	508.8	508.8	497.0
42.5°	560.0	564.8	579.7	593.1	584.4	575.0	567.1	561.6	557.7	556.9	544.3
45°	597.0	602.6	619.1	631.7	634.1	627.0	620.7	615.2	612.0	610.4	599.4
47.5°	638.8	644.3	659.3	674.2	685.3	683.7	676.6	671.1	673.5	671.9	664.8
50°	685.3	688.4	697.9	715.2	740.4	745.9	744.3	740.4	745.1	745.1	738.8
52.5°	722.3	724.6	731.7	752.2	794.0	806.6	816.8	824.7	832.6	837.3	833.3
55°	756.2	756.2	756.9	782.9	845.2	865.6	888.5	905.0	915.3	934.2	942.0
57.5°	811.3	807.4	806.6	834.1	906.6	927.9	960.9	984.6	998.8	1037.4	1036.6
60°	795.5	797.1	825.5	906.6	1032.6	1051.5	1081.5	1106.7	1133.4	1161.8	1164.2
62.5°	686.1	690.0	732.5	853.8	1113.0	1211.4	1303.6	1373.7	1413.1	1438.3	1403.6
65°	480.5	489.9	547.4	695.5	1024.7	1176.8	1322.5	1484.7	1609.2	1802.2	1858.1
67.5°	239.4	246.5	256.0	364.7	765.6	979.1	1179.9	1401.3	1566.7	1850.2	2008.5
70°	171.7	174.9	182.0	204.8	342.6	512.8	749.1	1065.7	1260.3	1688.0	1911.7
72.5°	133.1	136.3	145.7	178.0	226.8	250.5	297.7	486.8	723.9	1165.7	1468.2
75°	103.2	107.9	121.3	160.7	218.2	231.6	233.9	251.3	286.7	517.5	823.1
77.5°	72.5	73.3	86.6	138.6	211.9	237.9	233.9	233.9	238.7	263.9	352.1
80°	48.0	48.8	57.5	96.1	185.9	216.6	239.4	228.4	229.2	233.1	239.4
82.5°	25.2	26.8	33.9	58.3	108.7	146.5	199.3	207.9	204.8	208.7	207.2
85°	7.1	7.1	11.8	22.1	53.6	56.7	88.2	120.5	122.9	139.4	148.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.2	7.1	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	2.0	2.0	2.0	3.0	4.0	5.2	6.5	7.8	9.0	10.0	11.0
100°	8.0	8.0	10.0	14.0	22.0	24.0	26.0	28.0	30.0	30.5	31.0
102.5°	28.0	28.0	32.0	38.0	45.0	46.2	47.5	48.8	50.0	50.2	50.5
105°	54.0	54.0	56.0	61.0	66.0	67.0	68.0	69.0	70.0	70.2	70.5
107.5°	78.0	77.0	80.0	84.0	88.0	88.8	89.5	90.2	91.0	91.5	92.0
110°	101.0	102.0	103.0	106.0	110.0	110.5	111.0	111.5	112.0	112.5	113.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
112.5°	124.0	124.0	126.0	129.0	132.0	132.5	133.0	133.5	134.0	134.5	135.0
115°	146.0	147.0	149.0	151.0	154.0	154.5	155.0	155.5	156.0	156.5	157.0
117.5°	169.0	170.0	172.0	174.0	177.0	177.5	178.0	178.5	179.0	179.2	179.5
120°	193.0	195.0	196.0	198.0	201.0	201.2	201.5	201.8	202.0	202.5	203.0
122.5°	219.0	220.0	221.0	223.0	226.0	226.2	226.5	226.8	227.0	227.2	227.5
125°	244.0	246.0	247.0	248.0	251.0	251.2	251.5	251.8	252.0	252.2	252.5
127.5°	267.0	269.0	270.0	272.0	274.0	274.5	275.0	275.5	276.0	276.5	277.0
130°	290.0	292.0	293.0	294.0	298.0	298.2	298.5	298.8	299.0	299.5	300.0
132.5°	313.0	314.0	317.0	318.0	321.0	321.2	321.5	321.8	322.0	322.8	323.5
135°	336.0	337.0	339.0	341.0	345.0	345.0	345.0	345.0	345.0	345.8	346.5
137.5°	359.0	360.0	363.0	364.0	367.0	367.0	367.0	367.0	367.0	367.5	368.0
140°	382.0	383.0	385.0	386.0	388.0	388.2	388.5	388.8	389.0	389.2	389.5
142.5°	404.0	406.0	408.0	407.0	410.0	410.0	410.0	410.0	410.0	410.5	411.0
145°	425.0	426.0	428.0	428.0	431.0	431.2	431.5	431.8	432.0	432.5	433.0
147.5°	444.0	444.0	447.0	448.0	452.0	452.2	452.5	452.8	453.0	453.2	453.5
150°	461.0	462.0	464.0	465.0	469.0	469.2	469.5	469.8	470.0	470.2	470.5
152.5°	479.0	480.0	483.0	482.0	485.0	485.2	485.5	485.8	486.0	486.2	486.5
155°	499.0	500.0	502.0	501.0	503.0	503.0	503.0	503.0	503.0	503.2	503.5
157.5°	513.0	515.0	517.0	516.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
160°	525.0	527.0	529.0	529.0	532.0	532.0	532.0	532.0	532.0	532.0	532.0
162.5°	535.0	536.0	539.0	538.0	541.0	541.0	541.0	541.0	541.0	541.2	541.5
165°	546.0	547.0	549.0	548.0	552.0	552.0	552.0	552.0	552.0	552.2	552.5
167.5°	555.0	556.0	559.0	558.0	561.0	560.8	560.5	560.2	560.0	560.0	560.0
170°	562.0	563.0	566.0	565.0	567.0	566.8	566.5	566.2	566.0	565.8	565.5
172.5°	565.0	566.0	569.0	567.0	569.0	568.8	568.5	568.2	568.0	568.2	568.5
175°	567.0	569.0	570.0	569.0	572.0	572.0	572.0	572.0	572.0	572.2	572.5
177.5°	572.0	573.0	575.0	574.0	578.0	577.8	577.5	577.2	577.0	577.0	577.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0





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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6
2.5°	606.5	603.3	602.6	601.0	601.8	599.4	598.6	595.5	595.5	593.9	592.3
5°	610.4	607.3	610.4	604.9	605.7	603.3	599.4	599.4	596.3	593.9	589.2
7.5°	599.4	599.4	600.2	597.0	597.8	597.0	592.3	591.5	586.8	586.8	581.3
10°	578.9	578.9	582.1	579.7	580.5	579.7	577.4	576.6	575.0	575.0	566.3
12.5°	555.3	560.0	564.8	562.4	562.4	564.0	564.0	564.8	564.0	563.2	556.1
15°	535.6	542.7	547.4	546.6	547.4	551.4	552.9	553.7	556.1	555.3	549.0
17.5°	517.5	525.4	529.3	532.5	534.8	538.0	542.7	545.1	548.2	547.4	541.1
20°	501.0	508.0	515.1	519.1	519.9	526.2	531.7	538.8	540.3	541.9	534.0
22.5°	483.6	489.9	504.1	501.7	507.3	519.1	522.2	532.5	532.5	538.0	526.9
25°	468.7	469.4	491.5	487.6	492.3	513.6	515.9	534.0	529.3	537.2	524.6
27.5°	453.7	452.9	479.7	475.0	480.5	509.6	511.2	536.4	531.7	541.1	524.6
30°	442.7	440.3	471.0	461.6	469.4	505.7	506.5	538.8	534.8	547.4	530.1
32.5°	440.3	436.4	463.1	456.1	463.9	501.7	506.5	547.4	542.7	558.5	536.4
35°	450.5	444.2	467.1	460.8	467.1	503.3	510.4	560.8	555.3	573.4	551.4
37.5°	469.4	464.7	483.6	477.3	482.0	514.3	520.6	578.1	577.4	599.4	574.2
40°	502.5	497.8	512.8	504.1	508.0	538.0	541.1	602.6	604.9	631.7	606.5
42.5°	547.4	539.5	551.4	541.1	546.6	573.4	570.3	632.5	639.6	676.6	647.5
45°	604.9	594.7	601.8	590.7	594.7	617.5	608.9	672.7	679.8	725.4	699.4
47.5°	667.9	655.3	664.0	649.8	652.2	676.6	660.8	720.7	731.7	789.2	764.0
50°	743.6	727.0	730.2	716.8	718.3	742.8	725.4	779.8	793.2	857.0	834.9
52.5°	840.4	816.8	816.8	798.7	799.5	823.9	802.6	849.9	864.9	929.4	914.5
55°	968.0	949.1	945.2	926.3	920.0	924.7	894.8	927.9	944.4	1005.1	993.2
57.5°	1069.6	1067.3	1079.1	1052.3	1046.0	1047.6	1009.8	1012.1	1031.1	1078.3	1082.2
60°	1193.3	1197.2	1198.8	1176.8	1174.4	1152.4	1113.8	1107.5	1131.1	1163.4	1176.0
62.5°	1390.2	1386.3	1366.6	1350.1	1335.1	1276.0	1254.7	1220.1	1253.2	1271.3	1297.3
65°	1813.2	1772.2	1646.2	1657.2	1617.9	1489.5	1471.4	1401.3	1453.2	1454.0	1502.9
67.5°	2232.2	2312.6	2235.4	2237.0	2148.0	1915.6	1859.7	1720.3	1749.4	1715.5	1740.7
70°	2303.9	2416.5	2627.6	2589.8	2585.1	2406.3	2218.1	1985.7	1898.3	1825.8	1767.5
72.5°	1982.5	2095.2	2404.7	2318.9	2351.2	2405.5	2209.4	2035.3	1840.0	1747.8	1621.8
75°	1395.0	1557.2	1871.5	1826.6	1850.2	1940.0	1771.5	1751.0	1524.9	1463.5	1269.7
77.5°	747.5	948.3	1300.4	1245.3	1255.5	1306.7	1131.1	1094.9	876.7	816.0	596.3
80°	336.3	466.3	730.2	668.7	650.6	621.5	457.6	360.7	220.5	146.5	101.6
82.5°	222.9	231.6	323.7	280.4	262.3	216.6	140.2	82.7	65.4	55.1	52.8
85°	149.7	137.1	136.3	120.5	111.8	88.2	65.4	41.0	33.9	28.4	26.0
87.5°	8.7	5.5	7.9	8.7	6.3	5.5	3.9	0.0	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	12.0	13.0	11.5	10.6	10.0	8.5	7.0	6.5	6.0	5.5	5.0
100°	31.5	32.0	31.5	31.2	31.0	30.5	30.0	29.2	28.5	27.8	27.0
102.5°	50.8	51.0	50.8	50.6	50.5	50.2	50.0	49.5	49.0	48.5	48.0
105°	70.8	71.0	71.0	71.0	71.0	71.0	71.0	70.5	70.0	69.5	69.0
107.5°	92.5	93.0	92.8	92.6	92.5	92.2	92.0	91.8	91.5	91.2	91.0
110°	113.5	114.0	114.0	114.0	114.0	114.0	114.0	113.8	113.5	113.2	113.0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
112.5°	135.5	136.0	136.0	136.0	136.0	136.0	136.0	135.8	135.5	135.2	135.0
115°	157.5	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
117.5°	179.8	180.0	180.2	180.4	180.5	180.8	181.0	180.8	180.5	180.2	180.0
120°	203.5	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
122.5°	227.8	228.0	228.0	228.0	228.0	228.0	228.0	228.2	228.5	228.8	229.0
125°	252.8	253.0	253.2	253.4	253.5	253.8	254.0	254.0	254.0	254.0	254.0
127.5°	277.5	278.0	277.8	277.6	277.5	277.2	277.0	277.2	277.5	277.8	278.0
130°	300.5	301.0	301.0	301.0	301.0	301.0	301.0	301.2	301.5	301.8	302.0
132.5°	324.2	325.0	325.0	325.0	325.0	325.0	325.0	325.2	325.5	325.8	326.0
135°	347.2	348.0	348.0	348.0	348.0	348.0	348.0	348.2	348.5	348.8	349.0
137.5°	368.5	369.0	369.0	369.0	369.0	369.0	369.0	369.2	369.5	369.8	370.0
140°	389.8	390.0	390.0	390.0	390.0	390.0	390.0	390.5	391.0	391.5	392.0
142.5°	411.5	412.0	412.0	412.0	412.0	412.0	412.0	412.2	412.5	412.8	413.0
145°	433.5	434.0	433.8	433.6	433.5	433.2	433.0	433.2	433.5	433.8	434.0
147.5°	453.8	454.0	453.5	453.2	453.0	452.5	452.0	452.2	452.5	452.8	453.0
150°	470.8	471.0	470.5	470.2	470.0	469.5	469.0	469.0	469.0	469.0	469.0
152.5°	486.8	487.0	486.8	486.6	486.5	486.2	486.0	486.0	486.0	486.0	486.0
155°	503.8	504.0	503.8	503.6	503.5	503.2	503.0	503.2	503.5	503.8	504.0
157.5°	519.0	519.0	518.5	518.2	518.0	517.5	517.0	517.2	517.5	517.8	518.0
160°	532.0	532.0	531.5	531.2	531.0	530.5	530.0	530.0	530.0	530.0	530.0
162.5°	541.8	542.0	541.5	541.2	541.0	540.5	540.0	539.5	539.0	538.5	538.0
165°	552.8	553.0	552.2	551.8	551.5	550.8	550.0	549.5	549.0	548.5	548.0
167.5°	560.0	560.0	559.5	559.2	559.0	558.5	558.0	558.2	558.5	558.8	559.0
170°	565.2	565.0	564.8	564.6	564.5	564.2	564.0	564.5	565.0	565.5	566.0
172.5°	568.8	569.0	568.5	568.2	568.0	567.5	567.0	567.2	567.5	567.8	568.0
175°	572.8	573.0	572.2	571.8	571.5	570.8	570.0	569.5	569.0	568.5	568.0
177.5°	577.0	577.0	576.2	575.8	575.5	574.8	574.0	574.0	574.0	574.0	574.0
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0



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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6
2.5°	588.4	588.4	587.6	582.1	578.9	577.4	571.8	571.1	568.7	567.9	567.9
5°	587.6	584.4	580.5	572.6	564.8	557.7	555.3	549.8	545.9	541.1	541.1
7.5°	576.6	573.4	564.8	552.9	542.7	532.5	526.9	519.1	512.8	506.5	504.9
10°	564.0	559.2	547.4	531.7	518.3	500.2	493.1	482.8	475.7	466.3	456.8
12.5°	550.6	547.4	533.2	515.1	494.7	471.8	460.8	446.6	437.2	426.1	411.9
15°	545.1	538.8	520.6	497.8	472.6	445.0	429.3	414.3	400.1	387.5	368.6
17.5°	538.0	530.1	509.6	482.8	451.3	418.2	397.8	381.2	362.3	348.9	327.7
20°	530.1	518.3	496.2	463.9	428.5	389.1	363.1	346.6	321.4	308.0	282.8
22.5°	523.8	508.8	482.0	445.8	403.3	359.2	328.5	309.6	281.2	265.4	233.9
25°	522.2	504.1	471.8	430.9	382.0	330.0	293.0	274.1	238.7	220.5	183.5
27.5°	523.0	501.7	465.5	418.2	363.1	304.0	259.9	237.9	193.0	174.1	131.5
30°	523.8	502.5	459.2	407.2	345.8	277.3	225.3	199.3	145.7	129.2	91.4
32.5°	531.7	505.7	457.6	398.6	330.0	250.5	185.9	162.3	103.2	93.7	67.7
35°	541.1	515.9	460.8	397.0	318.2	223.7	145.7	121.3	74.0	71.7	55.1
37.5°	560.8	531.7	473.4	400.9	311.1	196.1	108.7	92.9	58.3	59.9	48.0
40°	590.7	558.5	493.9	412.7	310.3	168.6	80.3	72.5	50.4	52.0	44.1
42.5°	630.9	595.5	525.4	437.9	314.3	142.6	64.6	62.2	46.5	48.0	42.5
45°	683.7	647.5	569.5	470.2	325.3	121.3	56.7	56.7	44.9	46.5	41.7
47.5°	750.6	710.5	623.8	513.6	342.6	109.5	53.6	54.3	44.1	46.5	41.7
50°	826.3	782.1	693.1	569.5	369.4	106.3	54.3	54.3	44.9	46.5	41.7
52.5°	905.0	864.1	768.0	633.3	406.4	113.4	55.9	55.1	44.9	46.5	41.0
55°	985.4	948.3	850.7	708.1	457.6	138.6	59.9	57.5	44.9	46.5	41.7
57.5°	1065.7	1039.7	937.3	788.5	521.4	184.3	75.6	67.0	49.6	50.4	42.5
60°	1156.3	1137.4	1035.0	894.0	612.0	255.2	111.1	84.3	59.1	55.9	45.7
62.5°	1273.7	1268.9	1187.8	1046.0	757.7	357.6	157.5	102.4	63.8	58.3	48.8
65°	1480.8	1493.4	1416.2	1224.0	854.6	360.0	153.6	89.8	59.9	55.1	48.0
67.5°	1688.7	1651.7	1453.2	1197.2	771.1	239.4	97.7	70.1	52.8	51.2	44.9
70°	1680.9	1580.1	1317.8	1046.8	608.9	130.0	70.9	58.3	47.3	47.3	42.5
72.5°	1507.6	1357.9	1077.5	828.6	406.4	82.7	59.9	51.2	43.3	42.5	39.4
75°	1135.0	958.6	692.4	477.3	181.2	53.6	45.7	41.7	37.8	37.8	34.7
77.5°	534.0	300.9	167.0	111.1	60.7	36.2	31.5	31.5	30.7	31.5	28.4
80°	72.5	65.4	55.9	48.8	37.0	25.2	22.8	23.6	22.8	23.6	21.3
82.5°	44.1	39.4	32.3	30.7	22.8	17.3	16.5	17.3	15.8	16.5	12.6
85°	21.3	18.9	15.0	14.2	11.8	10.2	8.7	10.2	7.9	8.7	5.5
87.5°	0.0	1.6	0.8	1.6	1.6	1.6	0.0	1.6	0.0	1.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
97.5°	4.8	4.5	4.0	4.0	4.0	4.5	4.8	5.0	5.5	6.0	6.5
100°	26.8	26.5	26.0	25.0	26.0	26.5	26.8	27.0	27.8	28.5	29.2
102.5°	48.2	48.5	49.0	48.0	49.0	48.5	48.2	48.0	48.5	49.0	49.5
105°	69.5	70.0	71.0	69.0	71.0	70.0	69.5	69.0	69.5	70.0	70.5
107.5°	91.2	91.5	92.0	91.0	92.0	91.5	91.2	91.0	91.2	91.5	91.8
110°	113.2	113.5	114.0	113.0	114.0	113.5	113.2	113.0	113.2	113.5	113.8



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 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°	
112.5°	135.5	136.0	137.0	135.0	137.0	136.0	135.5	135.0	135.2	135.5	135.8	0°
115°	158.5	159.0	160.0	159.0	160.0	159.0	158.5	158.0	158.0	158.0	158.0	2.5°
117.5°	180.5	181.0	182.0	180.0	182.0	181.0	180.5	180.0	180.2	180.5	180.8	5°
120°	204.5	205.0	206.0	204.0	206.0	205.0	204.5	204.0	204.0	204.0	204.0	7.5°
122.5°	230.0	231.0	233.0	232.0	233.0	231.0	230.0	229.0	228.8	228.5	228.2	10°
125°	254.8	255.5	257.0	256.0	257.0	255.5	254.8	254.0	254.0	254.0	254.0	12.5°
127.5°	278.8	279.5	281.0	278.0	281.0	279.5	278.8	278.0	277.8	277.5	277.2	15°
130°	302.8	303.5	305.0	303.0	305.0	303.5	302.8	302.0	301.8	301.5	301.2	17.5°
132.5°	326.8	327.5	329.0	327.0	329.0	327.5	326.8	326.0	325.8	325.5	325.2	20°
135°	349.5	350.0	351.0	350.0	351.0	350.0	349.5	349.0	348.8	348.5	348.2	22.5°
137.5°	371.0	372.0	374.0	372.0	374.0	372.0	371.0	370.0	369.8	369.5	369.2	25°
140°	393.0	394.0	396.0	394.0	396.0	394.0	393.0	392.0	391.5	391.0	390.5	27.5°
142.5°	413.8	414.5	416.0	415.0	416.0	414.5	413.8	413.0	412.8	412.5	412.2	30°
145°	434.8	435.5	437.0	435.0	437.0	435.5	434.8	434.0	433.8	433.5	433.2	32.5°
147.5°	453.8	454.5	456.0	453.0	456.0	454.5	453.8	453.0	452.8	452.5	452.2	35°
150°	470.0	471.0	473.0	470.0	473.0	471.0	470.0	469.0	469.0	469.0	469.0	37.5°
152.5°	486.8	487.5	489.0	486.0	489.0	487.5	486.8	486.0	486.0	486.0	486.0	40°
155°	504.8	505.5	507.0	505.0	507.0	505.5	504.8	504.0	503.8	503.5	503.2	42.5°
157.5°	519.2	520.5	523.0	520.0	523.0	520.5	519.2	518.0	517.8	517.5	517.2	45°
160°	530.8	531.5	533.0	531.0	533.0	531.5	530.8	530.0	530.0	530.0	530.0	47.5°
162.5°	538.5	539.0	540.0	537.0	540.0	539.0	538.5	538.0	538.5	539.0	539.5	50°
165°	548.5	549.0	550.0	548.0	550.0	549.0	548.5	548.0	548.5	549.0	549.5	52.5°
167.5°	560.0	561.0	563.0	561.0	563.0	561.0	560.0	559.0	558.8	558.5	558.2	55°
170°	567.2	568.5	571.0	569.0	571.0	568.5	567.2	566.0	565.5	565.0	564.5	57.5°
172.5°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	567.8	567.5	567.2	60°
175°	568.8	569.5	571.0	568.0	571.0	569.5	568.8	568.0	568.5	569.0	569.5	62.5°
177.5°	574.8	575.5	577.0	574.0	577.0	575.5	574.8	574.0	574.0	574.0	574.0	65°
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	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**

115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°	115°	115°
587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	587.6	112.5°	136.0
564.0	561.6	560.8	557.7	556.9	553.7	552.9	549.8	544.3	541.9	538.0	115°	158.0
534.0	530.1	526.9	525.4	519.1	515.9	511.2	504.9	493.1	487.6	478.1	117.5°	181.0
492.3	491.5	482.0	478.9	471.0	465.5	458.4	448.2	430.9	420.6	405.6	120°	204.0
446.6	443.5	432.4	426.1	415.9	408.0	398.6	383.6	356.8	335.5	312.7	122.5°	228.0
404.1	394.6	382.0	372.6	360.0	348.9	337.9	315.1	272.5	237.9	206.4	125°	254.0
360.0	345.8	332.4	316.6	303.3	285.9	273.3	243.4	187.5	144.9	125.2	127.5°	277.0
315.1	295.4	280.4	259.1	244.2	220.5	207.2	170.9	122.9	104.0	97.7	130°	301.0
267.8	241.8	225.3	199.3	184.3	154.4	144.1	118.1	94.5	87.4	85.9	132.5°	325.0
217.4	185.9	167.8	139.4	129.2	111.1	103.2	90.6	79.6	76.4	78.0	135°	348.0
164.6	130.8	118.9	98.5	94.5	85.1	81.9	75.6	70.1	70.1	72.5	137.5°	369.0
117.4	91.4	88.2	75.6	74.8	70.1	67.7	64.6	63.0	64.6	67.7	140°	390.0
85.9	69.3	69.3	62.2	62.2	59.1	58.3	56.7	56.7	59.9	63.0	142.5°	412.0
67.7	56.7	58.3	52.8	53.6	51.2	52.0	51.2	52.0	54.3	56.7	145°	433.0
56.7	48.8	51.2	46.5	48.0	45.7	47.3	47.3	48.8	49.6	50.4	147.5°	452.0
50.4	44.9	46.5	43.3	44.9	42.5	44.9	44.9	45.7	45.7	45.7	150°	469.0
46.5	41.7	44.1	41.0	43.3	41.0	43.3	43.3	42.5	41.7	42.5	152.5°	486.0
44.1	41.0	43.3	40.2	42.5	40.2	41.7	41.0	39.4	39.4	39.4	155°	503.0
43.3	40.2	41.7	39.4	41.0	38.6	40.2	39.4	37.0	36.2	37.8	157.5°	517.0
43.3	39.4	41.7	38.6	40.2	37.8	39.4	37.0	34.7	34.7	37.0	160°	530.0
43.3	39.4	41.7	38.6	40.2	37.0	37.8	35.4	32.3	33.1	36.2	162.5°	540.0
44.1	41.0	42.5	39.4	40.2	35.4	37.0	33.9	31.5	32.3	34.7	165°	550.0
44.9	41.0	42.5	37.8	38.6	35.4	35.4	33.9	31.5	31.5	33.9	167.5°	558.0
44.9	40.2	41.0	37.0	37.8	33.9	34.7	33.1	30.7	29.9	31.5	170°	564.0
46.5	41.7	41.7	36.2	37.0	33.1	33.9	32.3	29.9	28.4	29.1	172.5°	567.0
48.0	42.5	43.3	37.8	37.8	33.9	34.7	31.5	28.4	26.8	27.6	175°	570.0
48.0	42.5	43.3	38.6	38.6	34.7	34.7	31.5	26.8	25.2	25.2	177.5°	574.0
45.7	41.7	42.5	38.6	38.6	34.7	34.7	30.7	26.0	23.6	22.8	180°	576.0
44.1	40.2	41.0	36.2	37.0	33.1	33.1	29.1	24.4	22.1	20.5		
40.2	37.0	37.0	33.9	33.1	29.1	29.1	26.8	22.8	19.7	18.1		
34.7	31.5	30.7	27.6	27.6	25.2	24.4	22.1	18.9	16.5	15.8		
28.4	24.4	24.4	20.5	20.5	18.1	18.9	16.5	14.2	13.4	12.6		
20.5	16.5	16.5	13.4	13.4	11.0	11.8	11.0	10.2	10.2	9.5		
12.6	8.7	9.5	7.1	8.7	6.3	7.1	6.3	6.3	5.5	5.5		
6.3	3.2	4.7	2.4	3.9	0.8	2.4	1.6	1.6	1.6	1.6		
0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
7.0	8.5	10.0	11.5	13.0	12.0	11.0	9.0	4.0	3.0	2.0		
30.0	30.5	31.0	31.5	32.0	31.5	31.0	30.0	22.0	14.0	10.0		
50.0	50.2	50.5	50.8	51.0	50.8	50.5	50.0	45.0	38.0	32.0		
71.0	71.0	71.0	71.0	71.0	70.8	70.5	70.0	66.0	61.0	56.0		
92.0	92.2	92.5	92.8	93.0	92.5	92.0	91.0	88.0	84.0	80.0		
114.0	114.0	114.0	114.0	114.0	113.5	113.0	112.0	110.0	106.0	103.0		

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**TION (continued):**

**CANDELA DISTRIBUTION (con**

117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°		175°	180°
136.0	136.0	136.0	136.0	135.5	135.0	134.0	132.0	129.0	126.0	0°	587.6	587.6
158.0	158.0	158.0	158.0	157.5	157.0	156.0	154.0	151.0	149.0	2.5°	534.0	536.4
180.8	180.5	180.2	180.0	179.8	179.5	179.0	177.0	174.0	172.0	5°	475.0	475.7
204.0	204.0	204.0	204.0	203.5	203.0	202.0	201.0	198.0	196.0	7.5°	403.3	401.7
228.0	228.0	228.0	228.0	227.8	227.5	227.0	226.0	223.0	221.0	10°	308.0	304.0
253.8	253.5	253.2	253.0	252.8	252.5	252.0	251.0	248.0	247.0	12.5°	198.5	193.0
277.2	277.5	277.8	278.0	277.5	277.0	276.0	274.0	272.0	270.0	15°	119.7	118.1
301.0	301.0	301.0	301.0	300.5	300.0	299.0	298.0	294.0	293.0	17.5°	96.1	96.1
325.0	325.0	325.0	325.0	324.2	323.5	322.0	321.0	318.0	317.0	20°	85.9	85.9
348.0	348.0	348.0	348.0	347.2	346.5	345.0	345.0	341.0	339.0	22.5°	79.6	79.6
369.0	369.0	369.0	369.0	368.5	368.0	367.0	367.0	364.0	363.0	25°	74.8	75.6
390.0	390.0	390.0	390.0	389.8	389.5	389.0	388.0	386.0	385.0	27.5°	70.9	70.9
412.0	412.0	412.0	412.0	411.5	411.0	410.0	410.0	407.0	408.0	30°	66.2	66.2
433.2	433.5	433.8	434.0	433.5	433.0	432.0	431.0	428.0	428.0	32.5°	58.3	58.3
452.5	453.0	453.5	454.0	453.8	453.5	453.0	452.0	448.0	447.0	35°	52.0	51.2
469.5	470.0	470.5	471.0	470.8	470.5	470.0	469.0	465.0	464.0	37.5°	46.5	47.3
486.2	486.5	486.8	487.0	486.8	486.5	486.0	485.0	482.0	483.0	40°	42.5	43.3
503.2	503.5	503.8	504.0	503.8	503.5	503.0	503.0	501.0	502.0	42.5°	41.0	41.0
517.5	518.0	518.5	519.0	519.0	519.0	519.0	519.0	516.0	517.0	45°	39.4	39.4
530.5	531.0	531.5	532.0	532.0	532.0	532.0	532.0	529.0	529.0	47.5°	39.4	39.4
540.5	541.0	541.5	542.0	541.8	541.5	541.0	541.0	538.0	539.0	50°	38.6	39.4
550.8	551.5	552.2	553.0	552.8	552.5	552.0	552.0	548.0	549.0	52.5°	37.8	37.8
558.5	559.0	559.5	560.0	560.0	560.0	560.0	561.0	558.0	559.0	55°	35.4	36.2
564.2	564.5	564.8	565.0	565.2	565.5	566.0	567.0	565.0	566.0	57.5°	33.1	33.9
567.5	568.0	568.5	569.0	568.8	568.5	568.0	569.0	567.0	569.0	60°	30.7	30.7
570.8	571.5	572.2	573.0	572.8	572.5	572.0	572.0	569.0	570.0	62.5°	27.6	27.6
574.8	575.5	576.2	577.0	577.0	577.0	577.0	578.0	574.0	575.0	65°	25.2	25.2
576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	67.5°	22.1	22.1
										70°	19.7	19.7
										72.5°	17.3	17.3
										75°	15.0	15.0
										77.5°	12.6	11.8
										80°	9.5	9.5
										82.5°	5.5	5.5
										85°	1.6	1.6
										87.5°	0.0	0.0
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	1.0	1.0
										97.5°	2.0	2.0
										100°	8.0	8.0
										102.5°	28.0	28.0
										105°	54.0	54.0
										107.5°	77.0	78.0
										110°	102.0	101.0



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**CANDELA DISTRIBUTION (continued):**

	175°	180°
112.5°	124.0	124.0
115°	147.0	146.0
117.5°	170.0	169.0
120°	195.0	193.0
122.5°	220.0	219.0
125°	246.0	244.0
127.5°	269.0	267.0
130°	292.0	290.0
132.5°	314.0	313.0
135°	337.0	336.0
137.5°	360.0	359.0
140°	383.0	382.0
142.5°	406.0	404.0
145°	426.0	425.0
147.5°	444.0	444.0
150°	462.0	461.0
152.5°	480.0	479.0
155°	500.0	499.0
157.5°	515.0	513.0
160°	527.0	525.0
162.5°	536.0	535.0
165°	547.0	546.0
167.5°	556.0	555.0
170°	563.0	562.0
172.5°	566.0	565.0
175°	569.0	567.0
177.5°	573.0	572.0
180°	576.0	576.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

