

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: P228304

Luminaire Tested: **ISC-AF-350-LED-E1-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISC-AF-350-LED-E1-SL3  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL  
Light Source: (16) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2271 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 20.09  
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

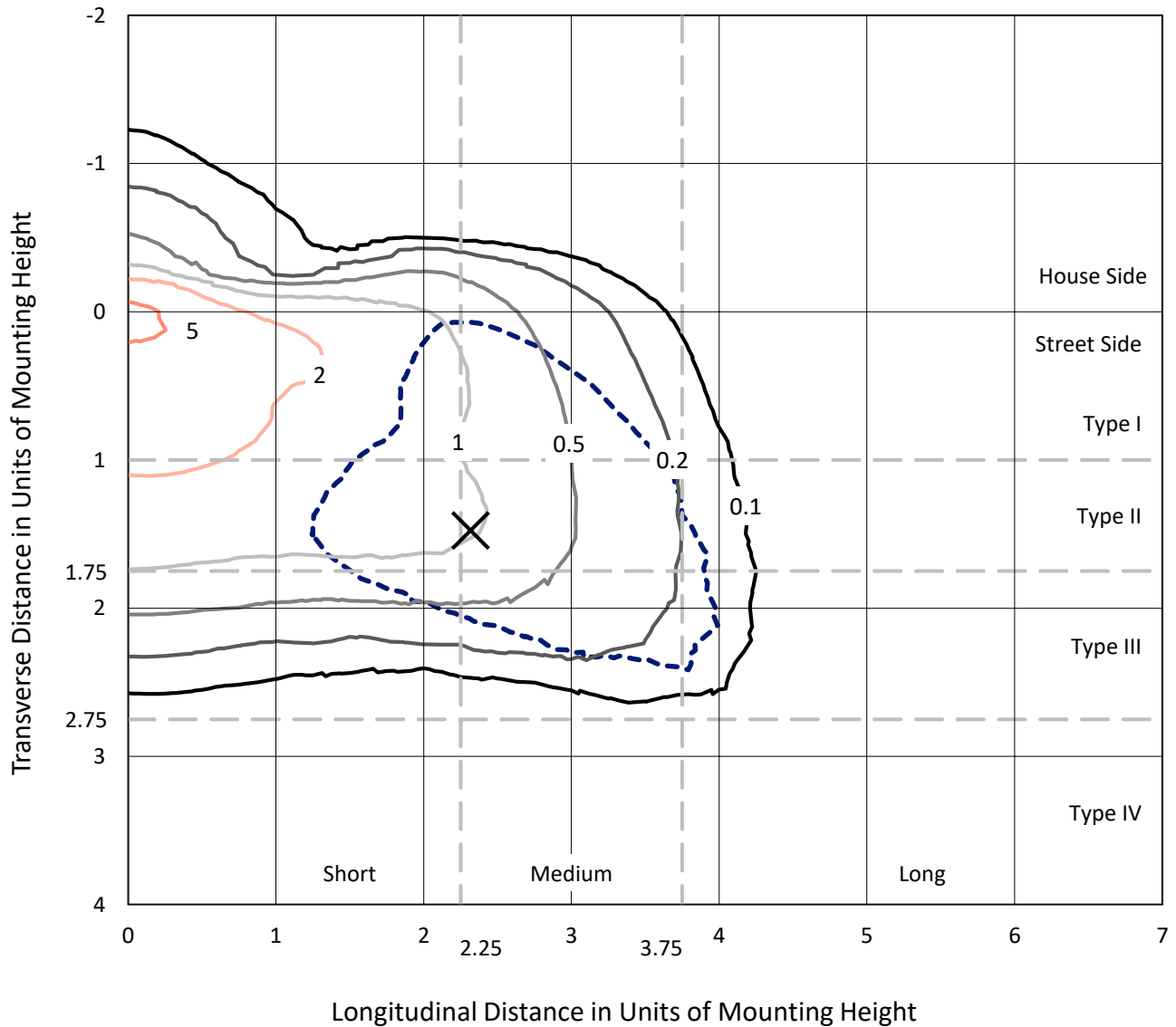


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### Iso-Footcandle Lines of Horizontal Illumination

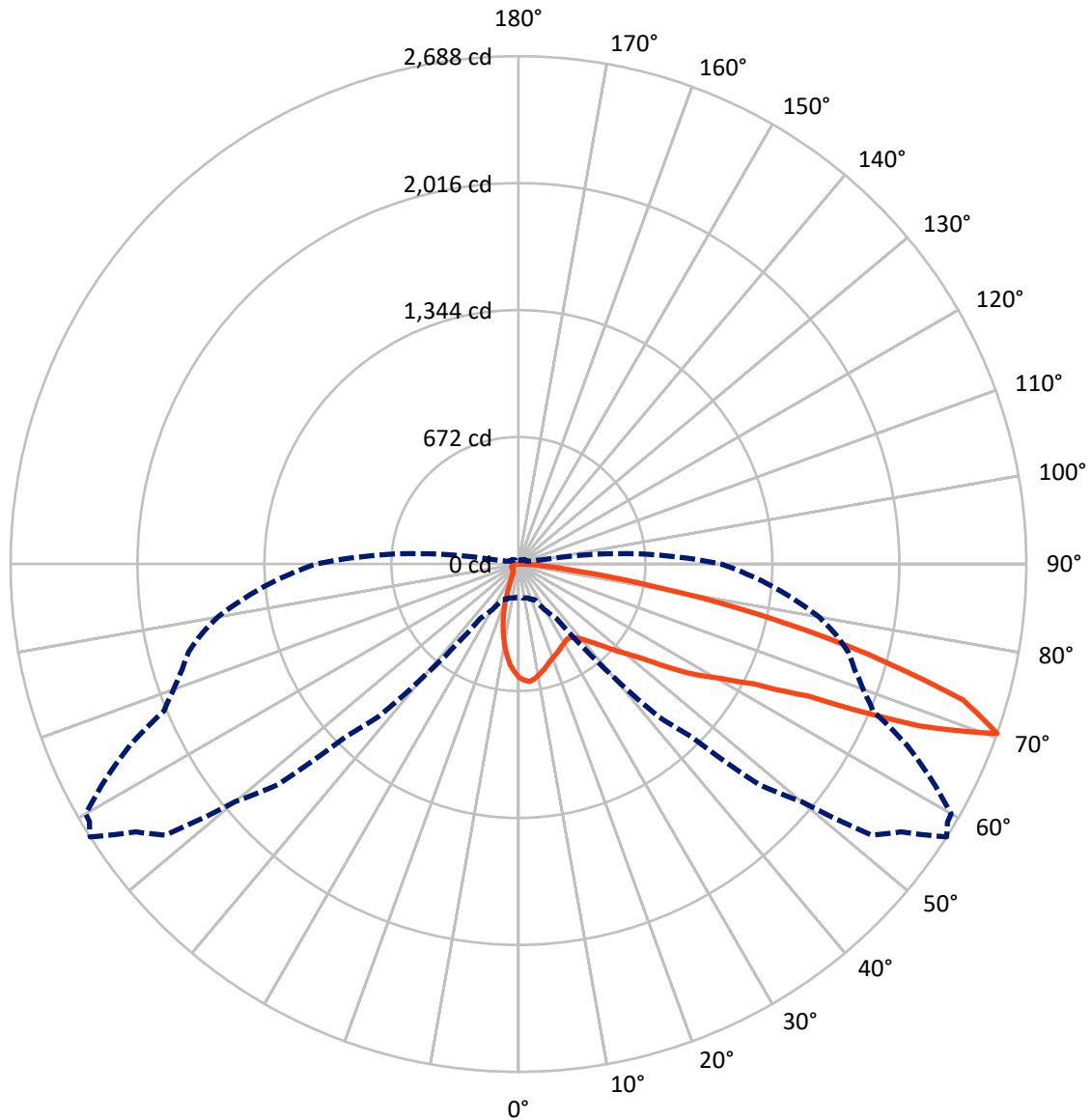
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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	281.0	0.0	281.0
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	1989.9	0.0	1989.9
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	2271.0	0.0	2271.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.9	2.3
10°-20°	112.7	5.0
20°-30°	141.6	6.2
30°-40°	185.1	8.1
40°-50°	277.7	12.2
50°-60°	438.9	19.3
60°-70°	632.7	27.9
70°-80°	391.6	17.2
80°-90°	38.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2271.0	100.0
0°-180°	2271.0	100.0



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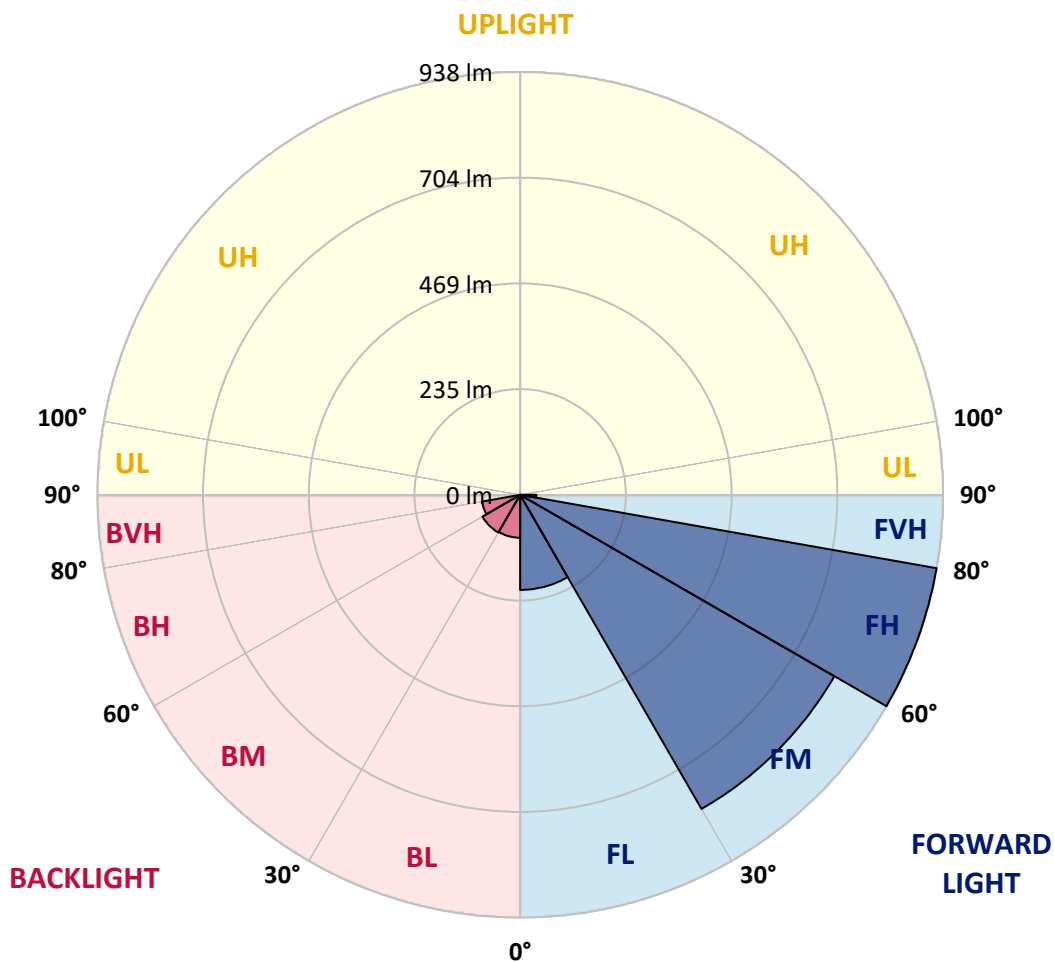
CATALOG NUMBER: ISC-AF-350-LED-E1-SL3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	210.9	9.3			
FM	(30°-60°)	805.0	35.4			
FH	(60°-80°)	938.3	41.3			G1/1800
FVH	(80°-90°)	35.7	1.6			G1/100
BL	(0°-30°)	95.3	4.2	B0/110		
BM	(30°-60°)	96.6	4.3	B0/220		
BH	(60°-80°)	86.0	3.8	B0/110		G0/110
BVH	(80°-90°)	3.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-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°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	630.9	630.1	628.5	625.2	623.7	625.2	623.7	621.2	618.0	620.4	618.8
5°	629.3	630.9	627.7	625.2	629.3	630.9	627.7	627.7	624.4	627.7	626.0
7.5°	597.8	598.6	599.4	598.6	609.2	609.2	607.5	609.2	610.0	611.5	612.3
10°	558.4	559.1	560.8	563.2	576.1	577.8	578.5	580.1	582.6	584.2	589.0
12.5°	518.9	520.5	523.8	531.8	545.4	547.1	549.5	551.9	556.0	558.4	567.2
15°	485.9	486.6	489.9	498.8	518.9	522.9	524.6	527.7	535.8	535.8	545.4
17.5°	455.2	456.8	459.3	469.7	489.9	496.3	501.1	502.8	513.2	515.7	526.9
20°	431.9	432.7	433.5	443.1	461.7	471.4	475.4	481.8	489.9	496.3	506.1
22.5°	419.0	419.8	418.2	422.2	438.3	450.4	455.2	461.7	464.9	476.2	481.8
25°	419.8	420.6	416.5	414.2	422.2	435.1	439.2	445.6	444.0	460.1	460.1
27.5°	427.8	429.4	425.4	418.2	419.0	429.4	431.9	434.3	429.4	445.6	442.3
30°	444.0	445.6	440.8	435.1	426.3	432.7	432.7	432.7	423.8	437.5	431.9
32.5°	460.8	462.5	460.8	456.8	445.6	447.2	444.0	442.3	430.3	441.5	432.7
35°	485.9	486.6	487.4	487.4	471.4	474.5	465.7	460.8	449.6	458.5	446.4
37.5°	515.7	515.7	521.3	523.8	506.1	506.1	496.3	489.9	479.5	482.6	470.6
40°	542.3	544.7	557.6	564.9	548.7	542.3	534.2	528.6	520.5	520.5	508.4
42.5°	572.9	577.8	593.0	606.7	597.8	588.2	580.1	574.5	570.5	569.7	556.8
45°	610.7	616.4	633.3	646.2	648.7	641.4	634.9	629.3	626.0	624.4	613.2
47.5°	653.5	659.1	674.4	689.7	701.0	699.4	692.1	686.5	689.0	687.3	680.1
50°	701.0	704.2	713.9	731.6	757.4	763.0	761.4	757.4	762.2	762.2	755.8
52.5°	738.9	741.2	748.5	769.5	812.2	825.1	835.5	843.6	851.7	856.5	852.4
55°	773.6	773.6	774.3	800.9	864.6	885.5	908.9	925.8	936.3	955.6	963.6
57.5°	829.9	825.9	825.1	853.2	927.4	949.2	983.0	1007.2	1021.7	1061.2	1060.4
60°	813.8	815.4	844.4	927.4	1056.3	1075.6	1106.3	1132.1	1159.4	1188.5	1190.9
62.5°	701.8	705.8	749.3	873.4	1138.5	1239.2	1333.5	1405.2	1445.5	1471.3	1435.8
65°	491.5	501.1	560.0	711.5	1048.2	1203.8	1352.9	1518.8	1646.1	1843.6	1900.7
67.5°	244.9	252.2	261.9	373.1	783.2	1001.6	1207.0	1433.5	1602.7	1892.7	2054.6
70°	175.6	178.9	186.2	209.5	350.5	524.6	766.3	1090.2	1289.2	1726.7	1955.6
72.5°	136.2	139.4	149.0	182.1	232.0	256.2	304.5	498.0	740.5	1192.5	1501.9
75°	105.6	110.4	124.1	164.4	223.2	236.9	239.3	257.1	293.3	529.4	842.0
77.5°	74.2	75.0	88.6	141.8	216.8	243.4	239.3	239.3	244.2	270.0	360.2
80°	49.1	49.9	58.8	98.3	190.2	221.6	244.9	233.6	234.5	238.4	244.9
82.5°	25.8	27.4	34.7	59.6	111.2	149.9	203.9	212.7	209.5	213.5	212.0
85°	7.3	7.3	12.1	22.6	54.8	58.0	90.2	123.3	125.7	142.6	152.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.3	7.3	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	52.5°	55°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	620.4	617.1	616.4	614.8	615.6	613.2	612.3	609.2	609.2	607.5	605.9
5°	624.4	621.2	624.4	618.8	619.6	617.1	613.2	613.2	610.0	607.5	602.7
7.5°	613.2	613.2	614.0	610.7	611.5	610.7	605.9	605.1	600.3	600.3	594.6
10°	592.2	592.2	595.5	593.0	593.8	593.0	590.7	589.8	588.2	588.2	579.3
12.5°	568.0	572.9	577.8	575.3	575.3	576.9	576.9	577.8	576.9	576.1	568.9
15°	547.9	555.2	560.0	559.1	560.0	564.1	565.6	566.4	568.9	568.0	561.6
17.5°	529.4	537.5	541.4	544.7	547.1	550.3	555.2	557.6	560.8	560.0	553.5
20°	512.5	519.7	526.9	531.0	531.8	538.3	543.9	551.2	552.7	554.3	546.3
22.5°	494.7	501.1	515.7	513.2	518.9	531.0	534.2	544.7	544.7	550.3	539.0
25°	479.5	480.2	502.8	498.8	503.6	525.4	527.7	546.3	541.4	549.5	536.6
27.5°	464.1	463.3	490.7	485.9	491.5	521.3	522.9	548.7	543.9	553.5	536.6
30°	452.9	450.4	481.8	472.2	480.2	517.3	518.1	551.2	547.1	560.0	542.3
32.5°	450.4	446.4	473.7	466.6	474.5	513.2	518.1	560.0	555.2	571.3	548.7
35°	460.8	454.4	477.8	471.4	477.8	514.9	522.1	573.7	568.0	586.6	564.1
37.5°	480.2	475.4	494.7	488.3	493.1	526.1	532.5	591.4	590.7	613.2	587.4
40°	514.0	509.2	524.6	515.7	519.7	550.3	553.5	616.4	618.8	646.2	620.4
42.5°	560.0	551.9	564.1	553.5	559.1	586.6	583.4	647.0	654.3	692.1	662.4
45°	618.8	608.3	615.6	604.3	608.3	631.7	622.9	688.1	695.4	742.0	715.5
47.5°	683.2	670.3	679.2	664.7	667.2	692.1	676.0	737.2	748.5	807.3	781.5
50°	760.7	743.7	747.0	733.3	734.8	759.8	742.0	797.7	811.4	876.7	854.1
52.5°	859.7	835.5	835.5	817.0	817.8	842.8	821.0	869.4	884.8	950.7	935.5
55°	990.2	970.9	966.9	947.6	941.1	945.9	915.3	949.2	966.1	1028.2	1016.0
57.5°	1094.1	1091.8	1103.9	1076.5	1070.0	1071.6	1033.0	1035.3	1054.8	1103.0	1107.0
60°	1220.7	1224.7	1226.3	1203.8	1201.4	1178.8	1139.4	1132.9	1157.1	1190.1	1203.0
62.5°	1422.1	1418.1	1398.0	1381.1	1365.7	1305.3	1283.5	1248.1	1282.0	1300.5	1327.1
65°	1854.8	1812.9	1684.0	1695.2	1655.0	1523.7	1505.2	1433.5	1486.6	1487.4	1537.4
67.5°	2283.4	2365.7	2286.7	2288.3	2197.3	1959.6	1902.4	1759.8	1789.6	1754.9	1780.7
70°	2356.8	2472.0	2687.9	2649.2	2644.4	2461.5	2269.0	2031.3	1941.9	1867.7	1808.1
72.5°	2028.0	2143.3	2459.9	2372.1	2405.2	2460.7	2260.1	2082.0	1882.2	1787.9	1659.0
75°	1427.0	1592.9	1914.5	1868.5	1892.7	1984.5	1812.2	1791.2	1559.9	1497.1	1298.8
77.5°	764.7	970.1	1330.2	1273.9	1284.3	1336.7	1157.1	1120.0	896.8	834.7	610.0
80°	344.0	477.0	747.0	684.0	665.5	635.8	468.1	369.0	225.6	149.9	103.9
82.5°	228.0	236.9	331.1	286.8	268.3	221.6	143.4	84.6	66.9	56.4	54.0
85°	153.1	140.2	139.4	123.3	114.4	90.2	66.9	41.9	34.7	29.1	26.6
87.5°	8.9	5.6	8.1	8.9	6.4	5.6	4.0	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





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**CANDELA DISTRIBUTION (continued):**

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	601.9	601.9	601.1	595.5	592.2	590.7	584.9	584.2	581.8	580.9	580.9
5°	601.1	597.8	593.8	585.7	577.8	570.5	568.0	562.4	558.4	553.5	553.5
7.5°	589.8	586.6	577.8	565.6	555.2	544.7	539.0	531.0	524.6	518.1	516.5
10°	576.9	572.0	560.0	543.9	530.2	511.7	504.4	493.9	486.6	477.0	467.3
12.5°	563.2	560.0	545.4	526.9	506.1	482.6	471.4	456.8	447.2	435.9	421.4
15°	557.6	551.2	532.5	509.2	483.4	455.2	439.2	423.8	409.3	396.4	377.1
17.5°	550.3	542.3	521.3	493.9	461.7	427.8	406.9	389.9	370.6	356.9	335.2
20°	542.3	530.2	507.6	474.5	438.3	398.0	371.4	354.6	328.8	315.1	289.3
22.5°	535.8	520.5	493.1	456.0	412.6	367.4	336.0	316.7	287.7	271.5	239.3
25°	534.2	515.7	482.6	440.8	390.8	337.6	299.7	280.4	244.2	225.6	187.7
27.5°	535.0	513.2	476.2	427.8	371.4	311.0	265.9	243.4	197.4	178.1	134.5
30°	535.8	514.0	469.7	416.5	353.7	283.7	230.5	203.9	149.0	132.2	93.5
32.5°	543.9	517.3	468.1	407.7	337.6	256.2	190.2	166.0	105.6	95.9	69.3
35°	553.5	527.7	471.4	406.1	325.5	228.8	149.0	124.1	75.7	73.3	56.4
37.5°	573.7	543.9	484.3	410.1	318.2	200.6	111.2	95.0	59.6	61.3	49.1
40°	604.3	571.3	505.2	422.2	317.4	172.5	82.1	74.2	51.6	53.2	45.1
42.5°	645.4	609.2	537.5	448.0	321.5	145.9	66.1	63.6	47.6	49.1	43.5
45°	699.4	662.4	582.6	481.0	332.8	124.1	58.0	58.0	45.9	47.6	42.7
47.5°	767.8	726.8	638.1	525.4	350.5	112.0	54.8	55.5	45.1	47.6	42.7
50°	845.3	800.0	709.0	582.6	377.9	108.7	55.5	55.5	45.9	47.6	42.7
52.5°	925.8	883.9	785.6	647.8	415.7	116.0	57.2	56.4	45.9	47.6	41.9
55°	1008.0	970.1	870.2	724.4	468.1	141.8	61.3	58.8	45.9	47.6	42.7
57.5°	1090.2	1063.6	958.8	806.6	533.4	188.5	77.3	68.5	50.7	51.6	43.5
60°	1182.8	1163.5	1058.8	914.5	626.0	261.1	113.6	86.2	60.5	57.2	46.7
62.5°	1302.9	1298.0	1215.1	1070.0	775.1	365.8	161.1	104.8	65.3	59.6	49.9
65°	1514.8	1527.7	1448.7	1252.1	874.2	368.3	157.1	91.9	61.3	56.4	49.1
67.5°	1727.5	1689.6	1486.6	1224.7	788.8	244.9	99.9	71.7	54.0	52.4	45.9
70°	1719.5	1616.4	1348.0	1070.8	622.9	133.0	72.5	59.6	48.4	48.4	43.5
72.5°	1542.2	1389.1	1102.2	847.6	415.7	84.6	61.3	52.4	44.3	43.5	40.3
75°	1161.0	980.6	708.3	488.3	185.4	54.8	46.7	42.7	38.7	38.7	35.5
77.5°	546.3	307.8	170.8	113.6	62.1	37.0	32.2	32.2	31.4	32.2	29.1
80°	74.2	66.9	57.2	49.9	37.8	25.8	23.3	24.1	23.3	24.1	21.8
82.5°	45.1	40.3	33.0	31.4	23.3	17.7	16.9	17.7	16.2	16.9	12.9
85°	21.8	19.3	15.3	14.5	12.1	10.4	8.9	10.4	8.1	8.9	5.6
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



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**CANDELA DISTRIBUTION (continued):**

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1	601.1
2.5°	576.9	574.5	573.7	570.5	569.7	566.4	565.6	562.4	556.8	554.3	550.3
5°	546.3	542.3	539.0	537.5	531.0	527.7	522.9	516.5	504.4	498.8	489.1
7.5°	503.6	502.8	493.1	489.9	481.8	476.2	468.9	458.5	440.8	430.3	414.9
10°	456.8	453.7	442.3	435.9	425.4	417.4	407.7	392.4	365.0	343.2	319.9
12.5°	413.4	403.7	390.8	381.2	368.3	356.9	345.7	322.3	278.8	243.4	211.1
15°	368.3	353.7	340.0	323.9	310.3	292.5	279.6	249.0	191.8	148.2	128.1
17.5°	322.3	302.2	286.8	265.0	249.8	225.6	212.0	174.8	125.7	106.4	99.9
20°	273.9	247.3	230.5	203.9	188.5	157.9	147.4	120.8	96.7	89.4	87.9
22.5°	222.4	190.2	171.7	142.6	132.2	113.6	105.6	92.7	81.4	78.2	79.8
25°	168.4	133.8	121.6	100.8	96.7	87.1	83.8	77.3	71.7	71.7	74.2
27.5°	120.1	93.5	90.2	77.3	76.5	71.7	69.3	66.1	64.4	66.1	69.3
30°	87.9	70.9	70.9	63.6	63.6	60.5	59.6	58.0	58.0	61.3	64.4
32.5°	69.3	58.0	59.6	54.0	54.8	52.4	53.2	52.4	53.2	55.5	58.0
35°	58.0	49.9	52.4	47.6	49.1	46.7	48.4	48.4	49.9	50.7	51.6
37.5°	51.6	45.9	47.6	44.3	45.9	43.5	45.9	45.9	46.7	46.7	46.7
40°	47.6	42.7	45.1	41.9	44.3	41.9	44.3	44.3	43.5	42.7	43.5
42.5°	45.1	41.9	44.3	41.1	43.5	41.1	42.7	41.9	40.3	40.3	40.3
45°	44.3	41.1	42.7	40.3	41.9	39.5	41.1	40.3	37.8	37.0	38.7
47.5°	44.3	40.3	42.7	39.5	41.1	38.7	40.3	37.8	35.5	35.5	37.8
50°	44.3	40.3	42.7	39.5	41.1	37.8	38.7	36.2	33.0	33.9	37.0
52.5°	45.1	41.9	43.5	40.3	41.1	36.2	37.8	34.7	32.2	33.0	35.5
55°	45.9	41.9	43.5	38.7	39.5	36.2	36.2	34.7	32.2	32.2	34.7
57.5°	45.9	41.1	41.9	37.8	38.7	34.7	35.5	33.9	31.4	30.6	32.2
60°	47.6	42.7	42.7	37.0	37.8	33.9	34.7	33.0	30.6	29.1	29.8
62.5°	49.1	43.5	44.3	38.7	38.7	34.7	35.5	32.2	29.1	27.4	28.2
65°	49.1	43.5	44.3	39.5	39.5	35.5	35.5	32.2	27.4	25.8	25.8
67.5°	46.7	42.7	43.5	39.5	39.5	35.5	35.5	31.4	26.6	24.1	23.3
70°	45.1	41.1	41.9	37.0	37.8	33.9	33.9	29.8	25.0	22.6	21.0
72.5°	41.1	37.8	37.8	34.7	33.9	29.8	29.8	27.4	23.3	20.2	18.5
75°	35.5	32.2	31.4	28.2	28.2	25.8	25.0	22.6	19.3	16.9	16.2
77.5°	29.1	25.0	25.0	21.0	21.0	18.5	19.3	16.9	14.5	13.7	12.9
80°	21.0	16.9	16.9	13.7	13.7	11.3	12.1	11.3	10.4	10.4	9.7
82.5°	12.9	8.9	9.7	7.3	8.9	6.4	7.3	6.4	6.4	5.6	5.6
85°	6.4	3.3	4.8	2.5	4.0	0.8	2.5	1.6	1.6	1.6	1.6
87.5°	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	601.1	601.1
2.5°	546.3	548.7
5°	485.9	486.6
7.5°	412.6	410.9
10°	315.1	311.0
12.5°	203.1	197.4
15°	122.4	120.8
17.5°	98.3	98.3
20°	87.9	87.9
22.5°	81.4	81.4
25°	76.5	77.3
27.5°	72.5	72.5
30°	67.7	67.7
32.5°	59.6	59.6
35°	53.2	52.4
37.5°	47.6	48.4
40°	43.5	44.3
42.5°	41.9	41.9
45°	40.3	40.3
47.5°	40.3	40.3
50°	39.5	40.3
52.5°	38.7	38.7
55°	36.2	37.0
57.5°	33.9	34.7
60°	31.4	31.4
62.5°	28.2	28.2
65°	25.8	25.8
67.5°	22.6	22.6
70°	20.2	20.2
72.5°	17.7	17.7
75°	15.3	15.3
77.5°	12.9	12.1
80°	9.7	9.7
82.5°	5.6	5.6
85°	1.6	1.6
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)