

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: P14208

Luminaire Tested: **GAR-080-LED-E1-3-SPUN-CAGE-3000**

Issue Date: 6/29/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14208  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 6/29/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GAR-080-LED-E1-3-SPUN-CAGE-3000  
Description: MCGRAW-EDISON POST TOP WITH A TYPE III SOLID TOP  
PRISMATIC REFRACTOR WITH ARCHITECTURAL CAGE  
Light Source: [6] 3000K LEDs  
Ballast/Driver: [2] ELECTRONIC DRIVERS

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8742.7 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1.08' x H: 2.21')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U3 - G3

Input Watts (W): 101.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 28.75 FT

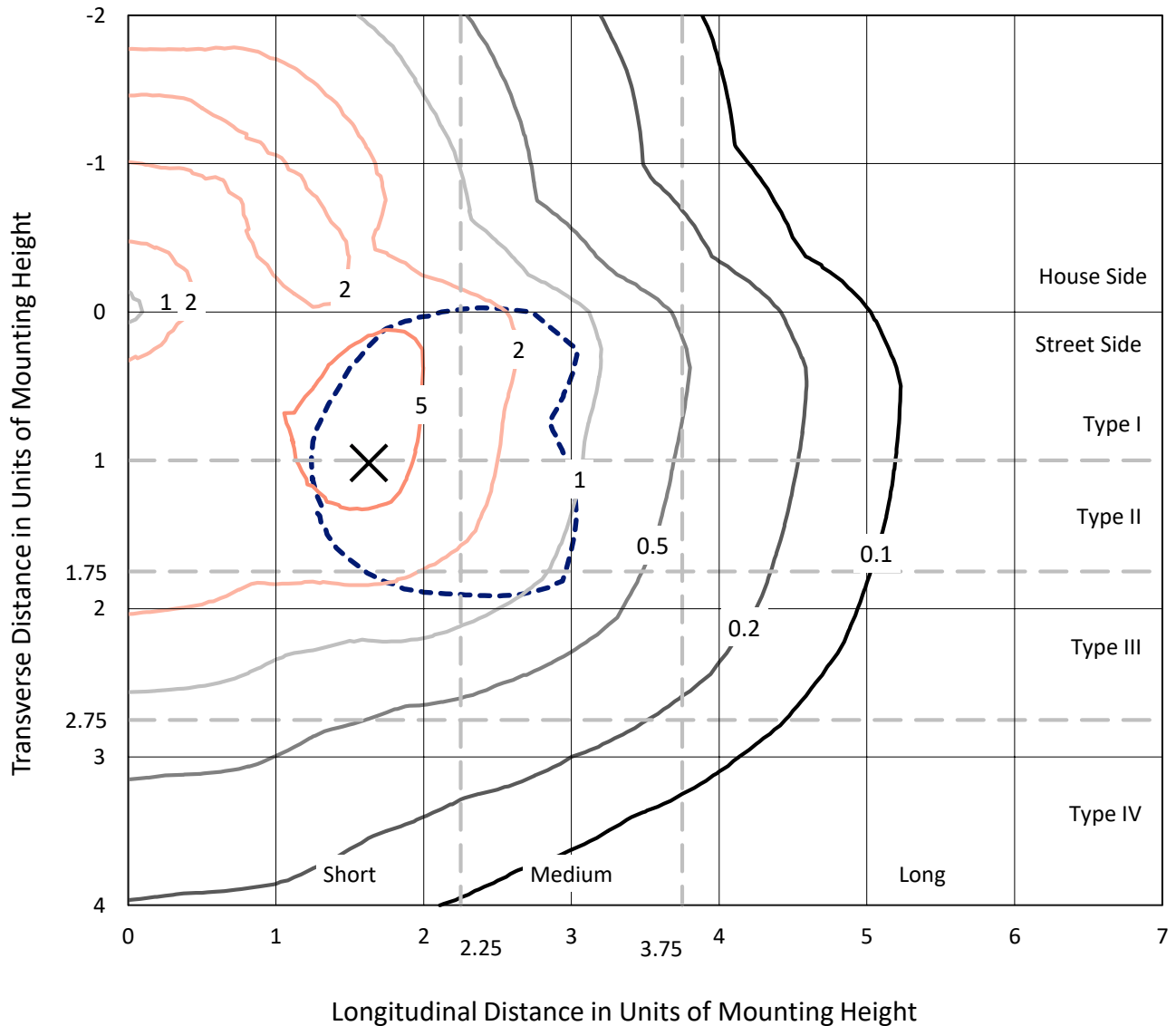


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

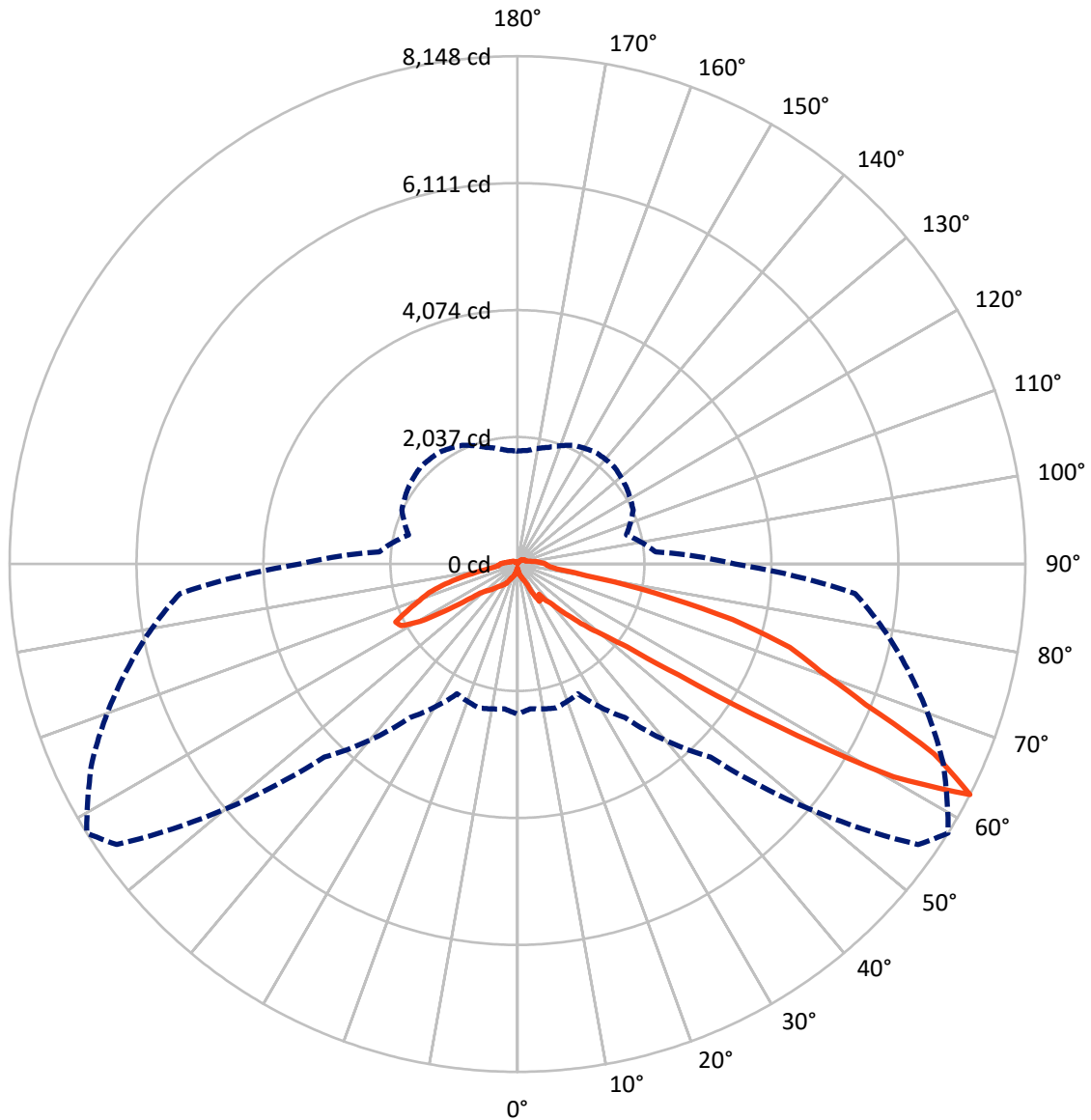


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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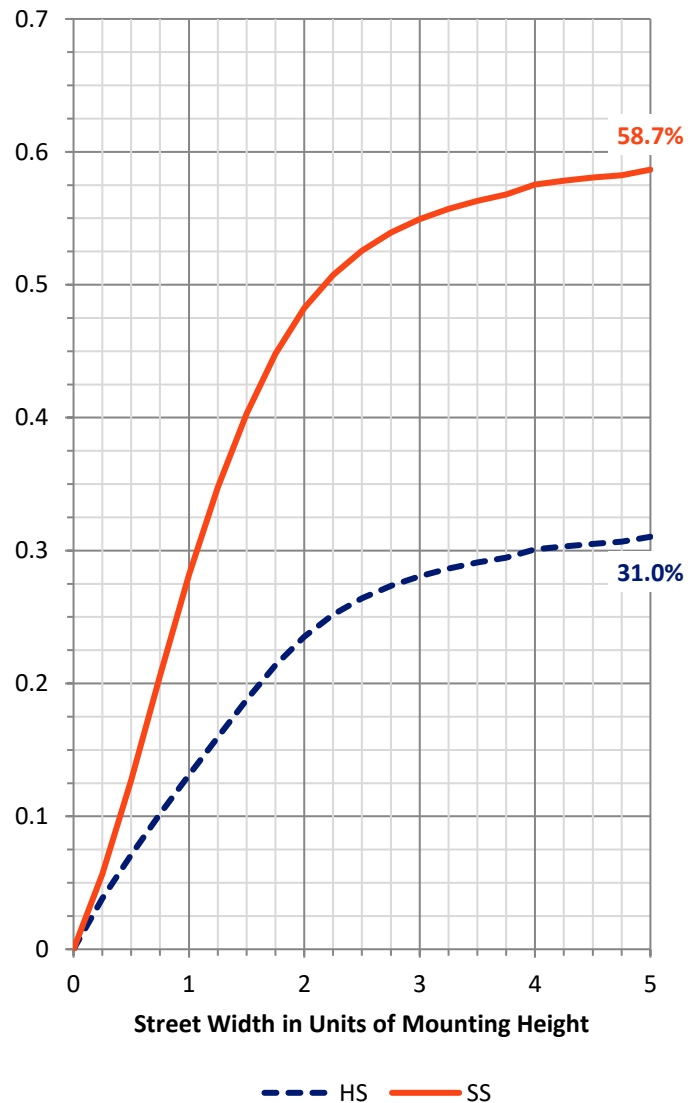
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2789.9	301.9	3091.9
	% Fixture	31.9	3.5	35.4
<b>Street Side</b>	Lumens	5248.4	402.4	5650.8
	% Fixture	60.0	4.6	64.6
<b>Total</b>	Lumens	8038.3	704.3	8742.7
	% Fixture	91.9	8.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.6	0.1
10°-20°	55.4	0.6
20°-30°	152.8	1.7
30°-40°	334.2	3.8
40°-50°	612.5	7.0
50°-60°	1515.3	17.3
60°-70°	3052.9	34.9
70°-80°	1847.9	21.1
80°-90°	456.7	5.2
90°-100°	271.9	3.1
100°-110°	154.4	1.8
110°-120°	105.4	1.2
120°-130°	77.7	0.9
130°-140°	50.2	0.6
140°-150°	26.5	0.3
150°-160°	12.1	0.1
160°-170°	5.2	0.1
170°-180°	1.1	0.0
0°-90°	8038.3	91.9
0°-180°	8742.7	100.0

**Coefficient of Utilization**



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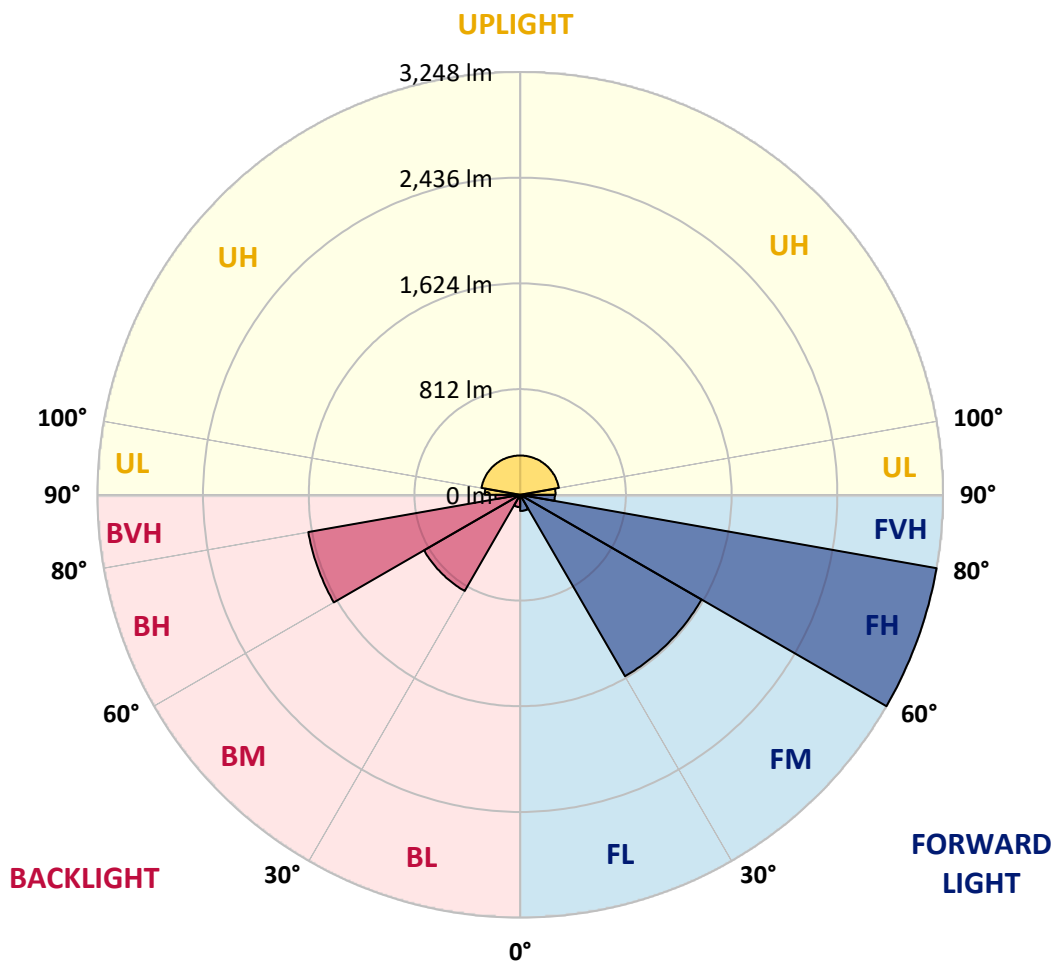
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	124.5	1.4			
FM (30°-60°)	1609.1	18.4			
FH (60°-80°)	3248.3	37.2			G2/5000
FVH (80°-90°)	266.4	3.0			G3/500
BL (0°-30°)	94.3	1.1	B0/110		
BM (30°-60°)	852.9	9.8	B1/1000		
BH (60°-80°)	1652.5	18.9	B3/2500		G3/2500
BVH (80°-90°)	190.3	2.2			G2/225
UL (90°-100°)	271.9	3.1		U3/500	
UH (100°-180°)	301.9	3.5		U3/500	

**BUG Rating: B3-U3-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	83.3	84.7	84.7	83.3	81.7	80.2	77.2	77.2	75.7	75.7	75.7
5°	105.9	105.9	105.9	104.4	103.0	99.8	96.9	96.9	98.4	93.8	90.8
7.5°	136.2	134.6	136.2	134.6	133.2	130.1	131.7	128.7	125.6	124.0	122.6
10°	166.5	164.9	166.5	166.5	164.9	163.5	157.4	159.0	155.8	149.8	146.8
12.5°	192.2	190.6	193.8	193.8	192.2	189.2	187.7	184.5	180.0	178.6	171.0
15°	208.9	205.8	208.9	208.9	210.3	213.4	208.9	205.8	201.2	196.7	190.6
17.5°	225.4	227.0	230.1	228.5	231.5	239.1	236.0	233.1	224.0	220.9	213.4
20°	245.2	248.2	249.8	248.2	248.2	257.2	261.8	258.8	248.2	245.2	230.1
22.5°	287.5	289.1	292.0	293.6	280.0	292.0	304.2	301.1	285.9	289.1	260.4
25°	339.0	334.5	334.5	329.9	331.3	351.2	372.2	372.2	351.2	317.8	285.9
27.5°	411.7	416.2	428.2	422.3	441.9	479.7	532.7	553.8	546.3	475.2	370.8
30°	528.2	528.2	561.4	570.5	576.6	631.0	668.9	696.1	721.8	608.4	467.7
32.5°	558.5	561.4	612.9	611.4	619.0	691.5	688.6	684.1	736.9	644.7	508.4
35°	543.3	555.4	600.8	594.7	615.9	799.0	628.1	596.2	640.1	599.2	485.8
37.5°	575.0	587.2	608.4	611.4	661.3	936.8	755.2	738.5	732.4	649.3	514.5
40°	655.2	671.9	709.8	732.4	768.8	1074.5	855.0	823.2	762.7	797.5	593.3
42.5°	773.3	780.9	797.5	838.3	909.5	1159.2	1075.9	1027.6	870.2	933.7	680.9
45°	855.0	868.6	891.4	912.6	962.5	1218.2	1284.8	1225.8	992.8	1122.9	790.0
47.5°	935.2	932.3	944.3	963.9	1021.5	1387.8	1561.7	1511.8	1154.7	1281.9	891.4
50°	836.8	835.4	917.1	945.8	891.4	1306.0	1750.9	1781.2	1430.1	1284.8	980.6
52.5°	942.9	912.6	1030.5	1041.1	1059.4	1569.4	2167.0	2201.9	2005.1	1648.0	1145.5
55°	1318.0	1230.4	1354.4	1366.6	1490.6	1994.6	2976.6	3140.1	3150.7	2811.7	1711.6
57.5°	1834.1	1687.3	1853.7	1863.0	2161.1	2710.3	4462.7	4856.3	5019.6	4381.1	2858.7
60°	2186.8	2050.5	2194.3	2159.5	2701.3	3497.2	6437.7	6934.0	6882.6	5809.6	4338.7
62.5°	2406.1	2332.0	2389.5	2297.3	3003.9	4381.1	7848.0	8147.7	7533.2	6474.0	5435.8
65°	2257.8	2260.9	2262.5	2201.9	2898.0	4633.8	7342.6	7347.1	6714.6	5649.2	5558.4
67.5°	2173.1	2171.7	2201.9	2094.5	2625.6	4437.1	6079.0	6029.1	5650.8	4810.9	5045.4
70°	1961.2	1949.2	2027.8	1928.0	2286.6	3839.3	4990.9	5154.4	4819.9	4214.7	4408.2
72.5°	1800.9	1764.5	1852.3	1725.2	2002.1	3088.6	4282.7	4568.6	4296.2	3807.5	3910.5
75°	1513.4	1468.0	1560.2	1410.4	1572.3	2265.4	3285.4	3565.4	3494.2	3206.7	3202.2
77.5°	1071.4	1021.5	1082.0	967.0	1075.9	1389.2	2052.0	2270.0	2438.0	2303.3	2207.9
80°	661.3	620.4	664.4	599.2	664.4	730.9	1000.3	1121.3	1315.1	1321.2	1212.1
82.5°	416.2	396.6	414.6	382.8	410.1	478.1	585.6	634.1	703.7	706.7	637.1
85°	332.9	323.9	334.5	328.4	349.6	420.7	490.3	511.5	511.5	463.0	444.9
87.5°	326.8	319.3	329.9	329.9	357.1	432.7	467.7	472.2	463.0	410.1	422.3
90°	316.2	308.7	317.8	322.3	355.7	434.3	443.4	441.9	425.3	378.3	384.4
92.5°	278.5	272.4	284.5	290.6	314.8	369.3	381.4	385.9	375.3	337.4	316.2
95°	255.7	252.7	263.3	267.9	284.5	317.8	336.0	339.0	328.4	290.6	281.4
97.5°	224.0	220.9	227.0	233.1	246.6	280.0	284.5	287.5	267.9	239.1	233.1
100°	195.2	193.8	201.2	204.4	211.8	239.1	233.1	233.1	220.9	199.7	196.7
102.5°	175.5	172.5	177.1	177.1	189.2	205.8	196.7	195.2	183.1	161.9	157.4
105°	159.0	157.4	163.5	161.9	168.0	178.6	171.0	171.0	155.8	140.7	137.7
107.5°	142.3	145.2	149.8	151.3	159.0	171.0	159.0	154.3	137.7	127.1	125.6
110°	133.2	130.1	133.2	136.2	143.8	155.8	145.2	145.2	133.2	121.1	124.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
112.5°	116.5	116.5	121.1	122.6	128.7	136.2	136.2	139.2	130.1	119.5	119.5
115°	113.6	107.5	112.0	113.6	121.1	124.0	127.1	127.1	122.6	116.5	113.6
117.5°	101.4	101.4	103.0	105.9	115.0	125.6	134.6	136.2	125.6	127.1	118.1
120°	93.8	98.4	96.9	98.4	103.0	112.0	121.1	122.6	108.9	118.1	110.4
122.5°	92.4	92.4	95.3	95.3	103.0	113.6	118.1	115.0	108.9	110.4	112.0
125°	86.3	84.7	86.3	87.8	99.8	103.0	107.5	107.5	108.9	105.9	110.4
127.5°	80.2	78.6	83.3	83.3	93.8	96.9	107.5	107.5	113.6	107.5	99.8
130°	72.7	74.1	75.7	77.2	86.3	89.2	103.0	104.4	104.4	96.9	95.3
132.5°	74.1	71.1	72.7	77.2	80.2	87.8	99.8	103.0	101.4	95.3	87.8
135°	66.6	66.6	68.2	69.6	74.1	78.6	90.8	90.8	90.8	86.3	78.6
137.5°	51.5	49.9	56.0	56.0	62.1	65.1	72.7	71.1	69.6	69.6	60.5
140°	56.0	56.0	60.5	60.5	62.1	63.5	66.6	65.1	65.1	66.6	60.5
142.5°	47.0	47.0	47.0	48.4	48.4	53.0	53.0	51.5	51.5	54.4	48.4
145°	47.0	47.0	47.0	45.4	47.0	49.9	49.9	49.9	51.5	56.0	47.0
147.5°	40.9	39.3	39.3	39.3	37.9	42.4	40.9	40.9	45.4	45.4	40.9
150°	34.8	34.8	34.8	33.2	31.8	33.2	37.9	36.3	37.9	36.3	36.3
152.5°	31.8	30.3	30.3	27.3	28.7	28.7	31.8	30.3	33.2	33.2	31.8
155°	25.7	24.2	22.8	21.2	19.7	19.7	22.8	24.2	24.2	25.7	25.7
157.5°	21.2	22.8	19.7	19.7	19.7	16.7	19.7	19.7	21.2	21.2	22.8
160°	13.6	16.7	15.1	15.1	15.1	15.1	15.1	16.7	15.1	18.1	19.7
162.5°	15.1	15.1	13.6	12.2	13.6	15.1	13.6	16.7	13.6	18.1	16.7
165°	12.2	12.2	13.6	12.2	12.2	13.6	12.2	13.6	13.6	15.1	16.7
167.5°	15.1	13.6	13.6	13.6	15.1	13.6	15.1	15.1	16.7	16.7	18.1
170°	10.6	10.6	9.0	9.0	12.2	12.2	10.6	12.2	12.2	12.2	12.2
172.5°	12.2	10.6	12.2	10.6	12.2	12.2	9.0	12.2	10.6	12.2	12.2
175°	10.6	9.0	9.0	9.0	9.0	10.6	7.6	7.6	9.0	9.0	10.6
177.5°	12.2	9.0	9.0	12.2	10.6	9.0	10.6	9.0	9.0	9.0	9.0
180°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2





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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
2.5°	74.1	75.7	75.7	72.7	72.7	69.6	66.6	65.1	66.6	66.6	63.5
5°	93.8	90.8	89.2	87.8	86.3	84.7	81.7	80.2	77.2	78.6	77.2
7.5°	118.1	118.1	113.6	110.4	107.5	105.9	104.4	103.0	103.0	103.0	101.4
10°	143.8	142.3	139.2	136.2	131.7	131.7	128.7	127.1	127.1	127.1	125.6
12.5°	168.0	166.5	161.9	159.0	157.4	154.3	154.3	154.3	152.9	152.9	151.3
15°	186.1	184.5	181.6	177.1	177.1	177.1	174.1	172.5	172.5	174.1	172.5
17.5°	207.3	205.8	201.2	196.7	196.7	201.2	198.3	193.8	193.8	196.7	198.3
20°	222.5	217.9	213.4	217.9	216.4	216.4	215.0	213.4	211.8	216.4	215.0
22.5°	251.2	242.1	236.0	240.6	236.0	240.6	242.1	239.1	236.0	237.6	239.1
25°	272.4	267.9	263.3	260.4	261.8	260.4	258.8	258.8	260.4	260.4	257.2
27.5°	332.9	314.8	302.6	302.6	299.7	302.6	298.1	298.1	299.7	301.1	302.6
30°	407.0	381.4	352.6	351.2	348.0	346.5	349.6	346.5	345.1	352.6	349.6
32.5°	454.0	417.6	382.8	384.4	385.9	388.9	388.9	387.3	379.9	384.4	384.4
35°	443.4	419.2	401.1	398.0	405.6	410.1	410.1	402.5	393.4	388.9	387.3
37.5°	464.6	449.4	440.4	440.4	435.9	437.4	438.8	432.7	425.3	422.3	422.3
40°	534.1	505.4	482.8	467.7	464.6	473.6	485.8	482.8	470.7	469.1	473.6
42.5°	600.8	558.5	522.1	502.5	507.0	526.7	540.2	529.6	517.6	513.1	511.5
45°	678.0	611.4	558.5	550.8	563.0	584.1	587.2	570.5	563.0	567.5	570.5
47.5°	758.2	682.5	626.5	608.4	620.4	644.7	655.2	640.1	628.1	609.8	619.0
50°	815.7	715.7	634.1	643.2	671.9	690.1	682.5	658.3	631.0	635.5	637.1
52.5°	882.3	774.9	727.9	746.0	762.7	776.3	768.8	747.6	744.6	718.8	712.8
55°	1168.3	983.6	961.0	991.2	988.3	997.3	1038.2	1024.5	1001.8	1024.5	1036.6
57.5°	1831.1	1375.6	1301.5	1342.4	1398.2	1448.3	1502.7	1437.7	1365.0	1366.6	1381.7
60°	2681.6	1825.0	1580.0	1747.8	1840.2	1906.8	1915.8	1793.2	1678.2	1648.0	1649.5
62.5°	3488.2	2226.1	1808.4	2047.5	2136.7	2200.4	2188.2	2101.9	1937.1	1828.0	1811.5
65°	4072.4	2550.0	1891.7	2148.9	2171.7	2204.9	2285.1	2204.9	1928.0	1766.1	1758.4
67.5°	4267.5	2660.4	1752.3	1899.1	1929.4	2088.4	2136.7	2043.0	1812.9	1646.4	1649.5
70°	3999.7	2442.5	1469.4	1590.4	1716.2	1870.4	1829.6	1743.3	1619.3	1502.7	1517.9
72.5°	3457.9	2024.9	1218.2	1404.3	1525.4	1601.0	1539.1	1487.6	1454.2	1378.6	1402.9
75°	2699.7	1564.8	1010.9	1168.3	1219.8	1286.4	1225.8	1215.2	1228.8	1195.6	1212.1
77.5°	1755.5	1041.1	761.1	841.5	874.7	906.5	868.6	883.7	900.4	898.9	907.9
80°	927.7	602.3	520.6	556.9	572.1	572.1	564.4	585.6	602.3	605.3	615.9
82.5°	511.5	384.4	364.7	388.9	385.9	378.3	381.4	388.9	388.9	376.7	378.3
85°	385.9	299.7	298.1	314.8	314.8	314.8	307.2	301.1	289.1	267.9	267.9
87.5°	369.3	287.5	280.0	295.2	295.2	293.6	290.6	280.0	264.9	240.6	240.6
90°	326.8	252.7	257.2	281.4	281.4	275.5	275.5	264.9	249.8	227.0	236.0
92.5°	266.3	207.3	228.5	249.8	249.8	246.6	245.2	240.6	224.0	205.8	198.3
95°	242.1	189.2	201.2	222.5	224.0	224.0	222.5	215.0	204.4	184.5	183.1
97.5°	196.7	159.0	171.0	183.1	186.1	192.2	189.2	184.5	171.0	159.0	152.9
100°	171.0	142.3	149.8	164.9	168.0	171.0	169.4	166.5	154.3	139.2	145.2
102.5°	140.7	119.5	130.1	142.3	151.3	146.8	146.8	142.3	131.7	119.5	119.5
105°	125.6	110.4	118.1	130.1	130.1	133.2	131.7	127.1	121.1	108.9	110.4
107.5°	121.1	99.8	108.9	116.5	121.1	121.1	121.1	115.0	110.4	101.4	99.8
110°	110.4	95.3	101.4	110.4	110.4	108.9	107.5	105.9	101.4	92.4	92.4



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	107.5	92.4	98.4	104.4	103.0	101.4	98.4	95.3	92.4	83.3	83.3
115°	101.4	86.3	90.8	96.9	98.4	95.3	89.2	92.4	84.7	80.2	74.1
117.5°	99.8	84.7	86.3	93.8	92.4	95.3	90.8	86.3	81.7	75.7	77.2
120°	98.4	80.2	78.6	80.2	81.7	80.2	80.2	78.6	68.2	66.6	63.5
122.5°	103.0	86.3	81.7	83.3	84.7	81.7	80.2	75.7	71.1	66.6	66.6
125°	93.8	80.2	74.1	77.2	75.7	75.7	71.1	71.1	66.6	63.5	63.5
127.5°	89.2	78.6	72.7	72.7	71.1	71.1	68.2	69.6	65.1	60.5	62.1
130°	81.7	69.6	65.1	65.1	66.6	65.1	60.5	59.0	59.0	56.0	59.0
132.5°	75.7	65.1	63.5	63.5	60.5	60.5	59.0	57.6	56.0	53.0	49.9
135°	68.2	60.5	56.0	57.6	56.0	56.0	54.4	54.4	53.0	51.5	51.5
137.5°	53.0	47.0	43.8	42.4	45.4	42.4	40.9	39.3	42.4	42.4	42.4
140°	56.0	53.0	48.4	47.0	43.8	43.8	43.8	45.4	47.0	47.0	45.4
142.5°	42.4	45.4	37.9	36.3	34.8	34.8	34.8	33.2	37.9	37.9	37.9
145°	43.8	42.4	39.3	37.9	36.3	34.8	34.8	34.8	37.9	40.9	40.9
147.5°	37.9	37.9	36.3	33.2	31.8	30.3	28.7	31.8	33.2	34.8	34.8
150°	36.3	36.3	31.8	30.3	28.7	30.3	27.3	28.7	31.8	31.8	31.8
152.5°	31.8	30.3	30.3	27.3	25.7	27.3	27.3	28.7	28.7	30.3	33.2
155°	24.2	24.2	25.7	24.2	24.2	22.8	24.2	25.7	25.7	25.7	25.7
157.5°	21.2	24.2	25.7	24.2	25.7	25.7	24.2	25.7	25.7	25.7	28.7
160°	19.7	19.7	24.2	25.7	24.2	25.7	24.2	22.8	27.3	24.2	24.2
162.5°	18.1	19.7	21.2	22.8	24.2	25.7	24.2	24.2	24.2	24.2	25.7
165°	16.7	19.7	21.2	22.8	22.8	22.8	22.8	22.8	21.2	22.8	21.2
167.5°	16.7	18.1	19.7	21.2	22.8	22.8	22.8	22.8	22.8	22.8	24.2
170°	12.2	13.6	15.1	16.7	16.7	15.1	12.2	15.1	15.1	15.1	13.6
172.5°	12.2	12.2	13.6	12.2	15.1	12.2	12.2	10.6	13.6	12.2	13.6
175°	9.0	10.6	10.6	10.6	10.6	9.0	9.0	9.0	9.0	10.6	7.6
177.5°	9.0	10.6	10.6	9.0	10.6	12.2	9.0	10.6	10.6	9.0	9.0
180°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2

(END OF REPORT)