

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: P192226

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-T2R-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54519 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 511  
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

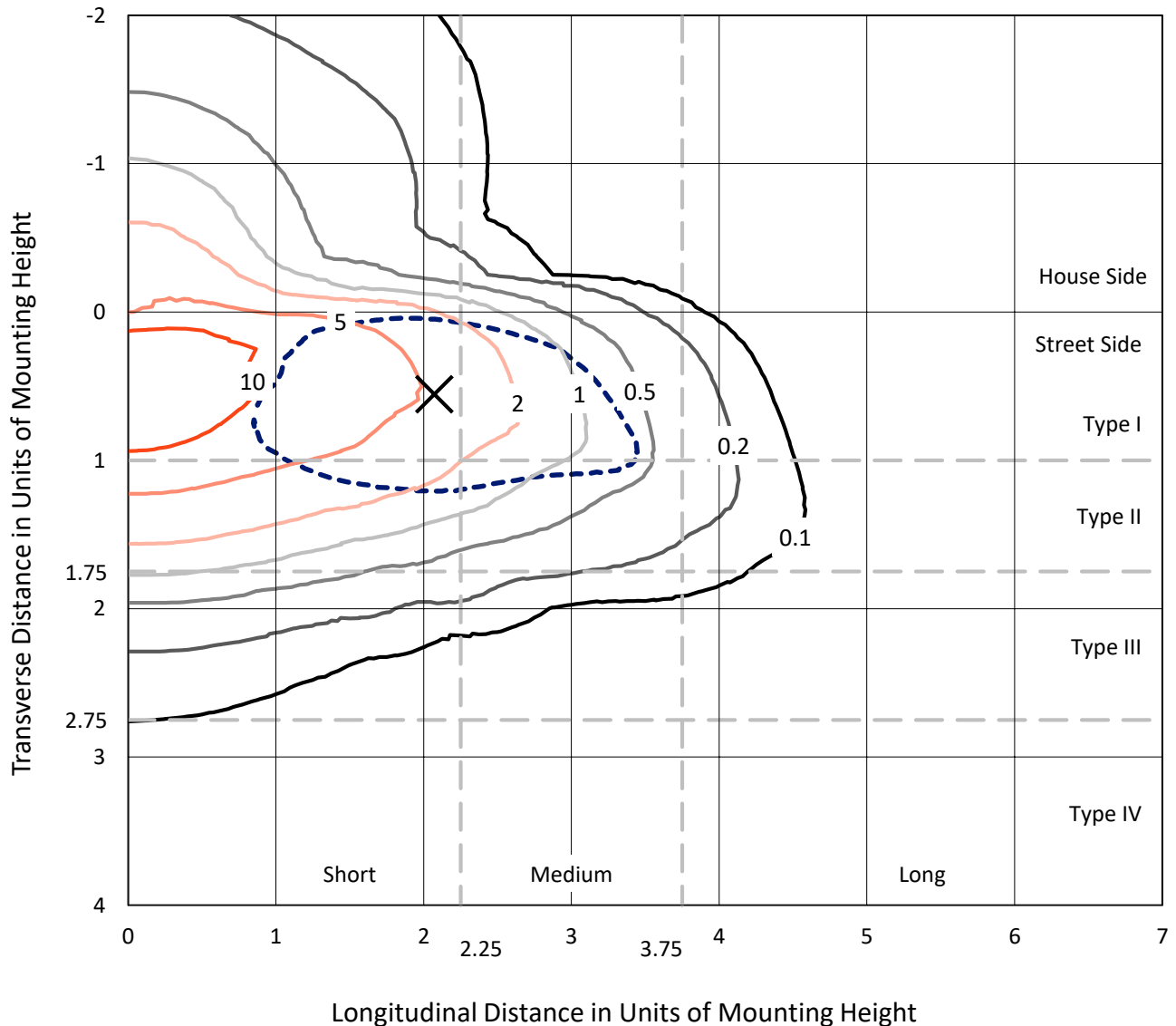


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### Iso-Footcandle Lines of Horizontal Illumination

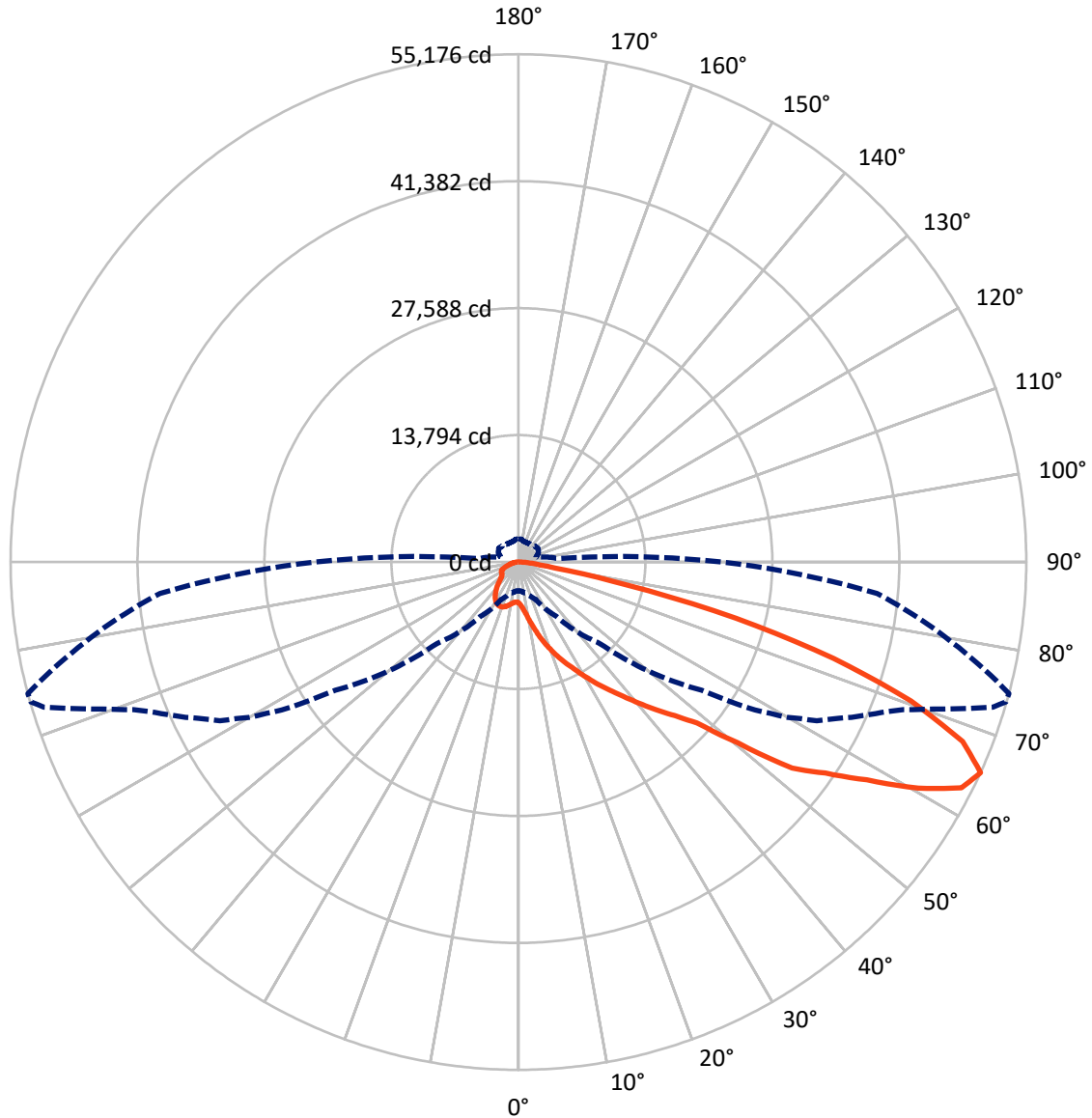
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8405.5	0.0	8405.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	46113.5	0.0	46113.5
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	54519.0	0.0	54519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.7	1.0
10°-20°	2139.8	3.9
20°-30°	4390.2	8.1
30°-40°	7386.2	13.5
40°-50°	10205.7	18.7
50°-60°	12739.7	23.4
60°-70°	11464.4	21.0
70°-80°	4805.8	8.8
80°-90°	839.6	1.5
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°	54519.0	100.0
0°-180°	54519.0	100.0

**Coefficient of Utilization**



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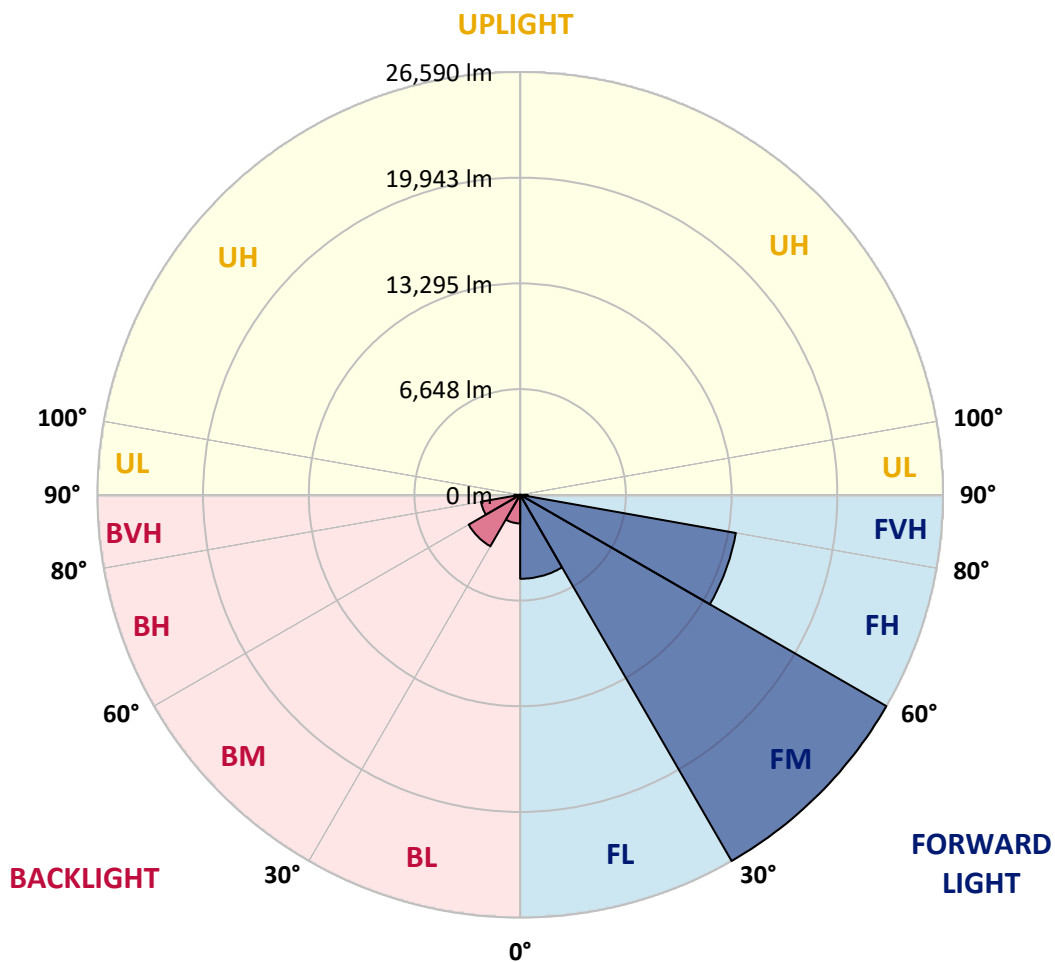
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7050-1200

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5280.0	9.7			
FM (30°-60°)	26590.2	48.8			
FH (60°-80°)	13771.3	25.3			G5
FVH (80°-90°)	471.9	0.9			G3/500
BL (0°-30°)	1797.6	3.3	B3/2500		
BM (30°-60°)	3741.4	6.9	B3/5000		
BH (60°-80°)	2498.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	367.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7
2.5°	5625.5	5563.5	5579.0	5475.8	5349.4	5184.2	5001.0	4998.4	5001.0	4982.9	4915.8
5°	7800.8	7726.0	7697.6	7465.4	7124.7	6639.6	6113.2	6056.4	6033.2	5973.8	5837.1
7.5°	9387.8	9346.6	9302.7	9127.2	8817.6	8275.7	7568.6	7447.3	7331.2	7302.8	7148.0
10°	10412.3	10402.0	10309.1	10262.6	10069.1	9599.4	8910.5	8794.3	8667.9	8624.0	8461.4
12.5°	11222.6	11220.0	11176.1	11189.0	11021.3	10680.7	10087.2	9981.4	9888.5	9754.3	9638.2
15°	11782.5	11785.1	11849.6	11921.9	11896.1	11666.4	11109.0	11062.6	10982.6	10889.7	10752.9
17.5°	12241.9	12254.8	12321.9	12453.5	12595.4	12577.3	12136.1	12097.4	12027.7	11901.2	11829.0
20°	13279.2	13328.3	13199.2	13199.2	13214.7	13284.4	13072.8	13041.8	12943.8	12876.7	12819.9
22.5°	15031.4	15088.2	14796.6	14499.8	14208.2	13996.6	13785.0	13823.7	13756.6	13710.2	13676.6
25°	17307.4	17351.3	16879.0	16378.4	15784.9	15010.7	14486.9	14463.7	14427.6	14399.2	14383.7
27.5°	19449.2	19467.3	19020.8	18288.0	17599.0	16486.8	15199.1	15170.7	15126.9	15072.7	15026.2
30°	21281.4	21276.2	20816.9	20117.5	19379.5	18148.6	16280.3	16192.6	16063.6	15916.5	15803.0
32.5°	22868.4	22860.6	22357.4	21632.3	20858.1	19795.0	17761.6	17580.9	17379.6	17093.2	16920.3
35°	24117.3	24112.2	23637.3	22881.3	21993.6	21345.9	19459.5	19237.6	18982.1	18597.6	18331.8
37.5°	24589.5	24589.5	24323.8	23807.7	23023.2	22579.3	21345.9	21077.5	20804.0	20367.9	20068.5
40°	24313.4	24318.6	24375.4	24279.9	23898.0	23557.3	23105.8	22945.8	22710.9	22318.7	22006.5
42.5°	23387.0	23415.4	23792.2	24254.1	24445.0	24390.8	24667.0	24594.7	24429.6	24127.6	23879.9
45°	22212.9	22300.6	22713.5	23585.7	24597.3	25110.8	25975.3	25983.0	25952.0	25789.5	25598.5
47.5°	20600.1	20724.0	21268.4	22447.7	24241.2	25810.1	27304.2	27373.9	27438.4	27332.6	27244.9
50°	18458.3	18605.4	19420.8	20984.6	23516.1	26535.2	29815.1	30129.9	30424.0	30387.9	30447.3
52.5°	16164.2	16337.1	17335.8	19077.6	22269.7	26703.0	31420.1	31933.6	32447.2	32867.8	33314.2
55°	14094.7	14001.8	15000.4	16835.2	20220.8	25946.9	32862.6	33481.9	34054.8	34570.9	35102.5
57.5°	11289.7	11441.9	12443.2	14257.2	17508.7	23812.8	33856.1	34761.9	35585.0	36439.2	37192.7
60°	8252.4	8404.7	9491.1	11333.5	14564.3	20576.9	33097.4	34470.3	35788.9	37097.2	38119.1
62.5°	4982.9	5096.5	6053.8	7808.6	11230.3	16739.7	29717.0	31518.2	33458.7	35022.5	36588.9
65°	3101.8	3166.3	3519.8	4484.9	7212.5	12497.3	24279.9	26243.6	28333.8	30318.2	31946.5
67.5°	2539.2	2562.4	2626.9	2833.4	3961.1	8149.2	18071.2	19810.5	21696.8	23616.7	25428.2
70°	2283.7	2268.3	2268.3	2281.2	2539.2	4381.7	11831.6	12964.4	14535.9	16205.5	17862.2
72.5°	2061.8	2046.3	2017.9	1979.2	2072.1	2673.4	6115.8	6969.9	8102.8	9586.5	11173.5
75°	1852.8	1832.2	1798.6	1749.6	1814.1	2017.9	2936.6	3295.3	3847.5	4637.2	5522.3
77.5°	1636.0	1610.2	1579.3	1543.1	1625.7	1568.9	1721.2	1850.2	2061.8	2314.7	2647.6
80°	1390.9	1367.7	1357.3	1339.3	1437.3	1194.8	1215.4	1295.4	1419.3	1556.0	1710.9
82.5°	1089.0	1089.0	1130.3	1138.0	1246.4	859.3	908.3	978.0	1042.5	1114.8	1187.0
85°	717.4	722.5	861.9	916.1	983.2	578.0	681.3	704.5	756.1	797.4	828.3
87.5°	224.5	242.6	526.4	583.2	565.1	327.7	418.0	428.4	464.5	492.9	518.7
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7
2.5°	4915.8	4884.9	4856.5	4853.9	4833.3	4804.9	4815.2	4771.3	4773.9	4750.7	4724.9
5°	5780.3	5759.7	5656.4	5628.1	5550.6	5501.6	5493.9	5390.7	5377.8	5318.4	5253.9
7.5°	7024.1	6957.0	6812.5	6742.8	6611.2	6513.2	6466.7	6330.0	6262.9	6108.0	6038.4
10°	8327.3	8242.1	8064.0	7966.0	7839.5	7682.1	7597.0	7398.3	7320.9	7178.9	7008.6
12.5°	9534.9	9449.8	9266.6	9191.7	9024.0	8856.3	8763.4	8538.9	8438.2	8211.1	8077.0
15°	10652.3	10567.1	10407.1	10329.7	10162.0	10025.2	9901.4	9679.4	9560.7	9349.1	9173.7
17.5°	11736.1	11645.8	11506.4	11436.8	11274.2	11134.8	11000.7	10791.6	10670.4	10458.8	10301.3
20°	12742.5	12675.4	12574.8	12481.9	12319.3	12192.8	12032.9	11852.2	11676.7	11521.9	11372.2
22.5°	13619.9	13594.1	13485.7	13444.4	13305.0	13196.7	13057.3	12879.3	12752.8	12556.7	12417.3
25°	14375.9	14368.2	14316.6	14303.7	14205.6	14102.4	14071.4	13924.4	13808.2	13635.3	13490.8
27.5°	15026.2	15034.0	15021.1	15057.2	15031.4	14984.9	14987.5	14938.5	14871.4	14726.9	14600.4
30°	15748.8	15707.5	15730.7	15782.3	15797.8	15803.0	15888.1	15916.5	15911.3	15815.9	15753.9
32.5°	16770.6	16672.6	16582.3	16574.5	16626.1	16646.8	16791.3	16866.1	16930.6	16953.9	16964.2
35°	18073.8	17877.7	17689.3	17588.7	17500.9	17524.1	17627.4	17748.7	17890.6	17988.6	18104.8
37.5°	19715.0	19475.0	19142.1	18904.7	18845.4	18716.3	18783.4	18878.9	19018.3	19170.5	19371.8
40°	21704.6	21340.7	20966.5	20651.7	20481.4	20244.0	20241.4	20223.3	20308.5	20450.4	20734.3
42.5°	23619.3	23296.7	22899.3	22569.0	22347.1	22029.7	21965.2	21797.4	21836.2	21960.0	22236.1
45°	25412.7	25146.9	24904.4	24522.5	24334.1	23990.9	23882.5	23683.8	23572.8	23629.6	23905.7
47.5°	27149.4	26979.1	26726.2	26478.5	26334.0	26026.9	25887.5	25745.6	25603.7	25598.5	25887.5
50°	30535.0	30444.7	30145.4	29887.3	29957.0	29580.2	29603.4	29221.5	29394.4	29415.1	30021.5
52.5°	33716.8	34031.6	34253.5	34524.5	34699.9	34733.5	34849.6	35022.5	35231.5	35644.4	36206.9
55°	35538.6	35933.4	36163.1	36369.5	36710.1	36782.4	36975.9	37205.6	37388.8	37853.3	38330.7
57.5°	37703.6	38436.5	38792.6	39120.3	39579.6	39755.1	40077.7	40328.0	40565.4	41115.0	41693.1
60°	39037.7	39930.6	40655.7	41174.4	41749.8	42162.7	42650.4	43042.7	43600.1	44258.1	45120.0
62.5°	37977.2	39288.1	40250.6	41140.8	41922.7	42712.4	43411.7	44144.5	44990.9	45987.0	47323.7
65°	33752.9	35087.0	36735.9	37659.8	38694.5	39912.5	40975.7	42162.7	43316.2	44766.4	46743.1
67.5°	27172.6	28723.5	30576.3	31507.9	32697.5	34057.4	35249.6	36699.8	38046.8	39804.2	42247.9
70°	19586.0	21591.0	23149.6	24122.5	25510.8	26912.0	28062.9	29750.5	30865.3	32666.5	35192.8
72.5°	12401.9	13983.7	15893.3	17119.0	18352.5	19771.8	20948.5	22403.9	23443.8	25085.0	27373.9
75°	6668.0	7834.4	9511.7	10675.5	11996.7	13209.6	14587.5	15563.0	16332.0	17629.9	19487.9
77.5°	3125.0	3834.6	4683.6	5579.0	6474.5	7408.6	8316.9	9106.6	9436.9	10180.1	11276.8
80°	1896.7	2126.3	2374.1	2650.2	3024.3	3326.3	3726.2	4015.3	4035.9	4270.7	4606.2
82.5°	1267.0	1352.2	1427.0	1496.7	1592.2	1667.0	1752.2	1852.8	1894.1	1948.3	2056.7
85°	864.5	905.8	921.2	965.1	954.8	980.6	1014.1	1047.7	1065.7	1063.2	1112.2
87.5°	531.6	552.2	562.5	572.9	565.1	554.8	570.3	588.4	593.5	578.0	583.2
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7
2.5°	4730.0	4706.8	4683.6	4668.1	4663.0	4526.2	4466.8	4428.1	4345.6	4278.5	4224.3
5°	5217.8	5168.7	5130.0	5083.6	5057.8	4712.0	4585.5	4497.8	4353.3	4268.1	4190.7
7.5°	6002.2	5865.5	5785.5	5695.2	5617.7	4993.3	4784.2	4647.5	4446.2	4332.7	4244.9
10°	6892.5	6750.6	6624.1	6484.8	6363.5	5367.4	5062.9	4851.3	4585.5	4438.5	4322.3
12.5°	7886.0	7746.6	7586.7	7408.6	7253.8	5842.2	5419.0	5117.1	4753.3	4557.2	4394.6
15°	9060.1	8815.0	8621.4	8415.0	8234.4	6410.0	5834.5	5416.5	4931.3	4665.5	4448.8
17.5°	10151.7	9893.6	9630.4	9449.8	9240.8	7047.3	6252.5	5721.0	5078.4	4735.2	4459.1
20°	11217.4	10936.1	10709.1	10466.5	10247.1	7707.9	6699.0	5989.3	5173.9	4737.8	4394.6
22.5°	12156.7	11981.2	11728.4	11465.1	11243.2	8368.5	7117.0	6216.4	5210.0	4678.4	4281.0
25°	13225.0	13039.2	12729.6	12507.7	12259.9	9042.1	7527.3	6391.9	5189.4	4567.5	4105.6
27.5°	14365.6	14159.2	13841.8	13609.5	13310.2	9741.4	7904.1	6518.3	5112.0	4386.8	3870.7
30°	15555.2	15366.9	15054.6	14819.8	14517.9	10482.0	8324.7	6603.5	4957.1	4136.5	3597.2
32.5°	16832.6	16675.2	16365.5	16120.4	15797.8	11284.5	8716.9	6629.3	4722.3	3839.8	3308.2
35°	18045.4	17937.0	17676.4	17446.7	17111.3	12043.2	9132.4	6616.4	4443.6	3514.6	3045.0
37.5°	19410.5	19346.0	19217.0	18925.4	18515.1	13072.8	9630.4	6562.2	4103.0	3192.1	2843.7
40°	20865.9	20871.1	20731.7	20533.0	20151.1	14321.8	10223.9	6456.4	3731.4	2908.2	2660.5
42.5°	22406.4	22486.4	22419.3	22277.4	21911.0	15581.0	10933.6	6327.4	3370.1	2632.1	2479.9
45°	24171.5	24269.6	24372.8	24163.8	23807.7	17242.9	11867.7	6159.6	2980.5	2402.4	2356.0
47.5°	26207.5	26362.3	26455.2	26457.8	26101.7	19302.1	13385.0	6059.0	2634.7	2247.6	2296.6
50°	30504.0	30553.1	30772.4	31154.3	30880.8	24068.3	16035.2	5997.1	2399.9	2152.1	2252.8
52.5°	36694.7	37234.0	37613.3	37587.5	37215.9	27095.2	17495.8	5677.1	2260.5	2116.0	2232.1
55°	39215.8	39889.3	40591.2	40777.0	40488.0	29678.3	18876.3	5357.1	2193.4	2141.8	2239.9
57.5°	42575.6	43711.0	44673.5	45078.7	44660.6	32983.9	20693.0	5189.4	2172.8	2211.5	2288.9
60°	46500.5	47904.3	49168.8	49896.5	49896.5	36782.4	22576.8	5119.7	2144.4	2314.7	2371.5
62.5°	49021.7	51083.5	52993.1	54058.8	54027.8	39427.4	23412.8	4882.3	2079.9	2387.0	2485.0
65°	49032.0	51483.5	53916.9	55114.2	55176.2	39102.3	22032.3	4312.0	1961.2	2397.3	2598.6
67.5°	44944.5	47558.5	50394.5	51733.8	52043.4	35995.3	19072.4	3545.6	1767.6	2294.1	2639.8
70°	37959.1	40511.2	43406.5	44722.6	45272.2	30684.7	15361.7	2732.7	1519.9	2067.0	2554.7
72.5°	29905.4	32408.4	34423.8	35386.3	35814.7	23454.1	11186.5	2064.4	1246.4	1741.8	2325.0
75°	21173.0	23051.6	24122.5	24336.7	24403.8	14138.5	6797.0	1535.4	1027.0	1354.8	1963.8
77.5°	11950.3	12755.4	12667.7	12763.1	11968.3	5457.7	2959.8	1099.3	846.4	1029.6	1522.5
80°	4665.5	4810.0	4518.4	4428.1	4061.7	2030.9	1305.7	766.4	676.1	779.3	1065.7
82.5°	2056.7	2123.7	2061.8	2077.3	1987.0	1047.7	781.9	554.8	516.1	570.3	707.1
85°	1132.8	1153.5	1148.3	1181.9	1132.8	418.0	371.6	340.6	361.3	387.1	454.2
87.5°	552.2	557.4	539.3	567.7	549.6	211.6	183.2	193.5	211.6	216.8	216.8
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):**

	135°	145°	155°	165°	175°	180°
0°	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7
2.5°	4185.6	4164.9	4167.5	4162.3	4152.0	4152.0
5°	4149.4	4128.8	4128.8	4123.6	4110.7	4113.3
7.5°	4185.6	4152.0	4139.1	4121.1	4103.0	4103.0
10°	4226.9	4167.5	4131.4	4100.4	4077.2	4077.2
12.5°	4257.8	4164.9	4105.6	4064.3	4041.1	4041.1
15°	4268.1	4146.9	4064.3	4015.3	3994.6	3992.0
17.5°	4234.6	4077.2	3976.5	3919.8	3894.0	3886.2
20°	4131.4	3950.7	3829.5	3764.9	3728.8	3715.9
22.5°	3976.5	3770.1	3628.2	3561.1	3514.6	3506.9
25°	3759.8	3537.9	3398.5	3334.0	3308.2	3300.5
27.5°	3506.9	3300.5	3181.8	3140.5	3117.2	3114.7
30°	3266.9	3091.4	3003.7	2972.7	2944.3	2939.2
32.5°	3042.4	2931.4	2897.9	2854.0	2786.9	2779.2
35°	2882.4	2872.1	2848.9	2750.8	2668.2	2645.0
37.5°	2784.4	2879.8	2761.1	2567.6	2508.2	2503.1
40°	2727.6	2799.8	2596.0	2528.9	2534.0	2528.9
42.5°	2598.6	2673.4	2601.1	2570.2	2590.8	2596.0
45°	2469.5	2552.1	2639.8	2619.2	2668.2	2668.2
47.5°	2397.3	2521.1	2637.3	2637.3	2709.5	2735.3
50°	2314.7	2495.3	2596.0	2632.1	2688.9	2668.2
52.5°	2309.5	2451.5	2536.6	2601.1	2626.9	2603.7
55°	2317.3	2415.3	2477.3	2549.5	2580.5	2583.1
57.5°	2327.6	2394.7	2436.0	2469.5	2562.4	2562.4
60°	2353.4	2376.6	2399.9	2417.9	2539.2	2541.8
62.5°	2394.7	2358.6	2353.4	2371.5	2526.3	2516.0
65°	2459.2	2332.8	2294.1	2312.1	2513.4	2482.4
67.5°	2546.9	2294.1	2219.2	2232.1	2503.1	2436.0
70°	2626.9	2232.1	2126.3	2113.4	2405.0	2286.3
72.5°	2634.7	2159.9	1997.3	1958.6	2090.2	1976.7
75°	2505.7	2110.8	1855.4	1741.8	1726.4	1710.9
77.5°	2257.9	2082.5	1690.2	1512.2	1481.2	1491.5
80°	1888.9	1976.7	1491.5	1279.9	1447.7	1429.6
82.5°	1411.5	1744.4	1267.0	1132.8	1130.3	998.7
85°	784.5	1359.9	1032.2	849.0	590.9	572.9
87.5°	219.3	756.1	722.5	480.0	327.7	340.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)