

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: P192194

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192194  
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-06-LED-E1-T2R-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24437 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 193  
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

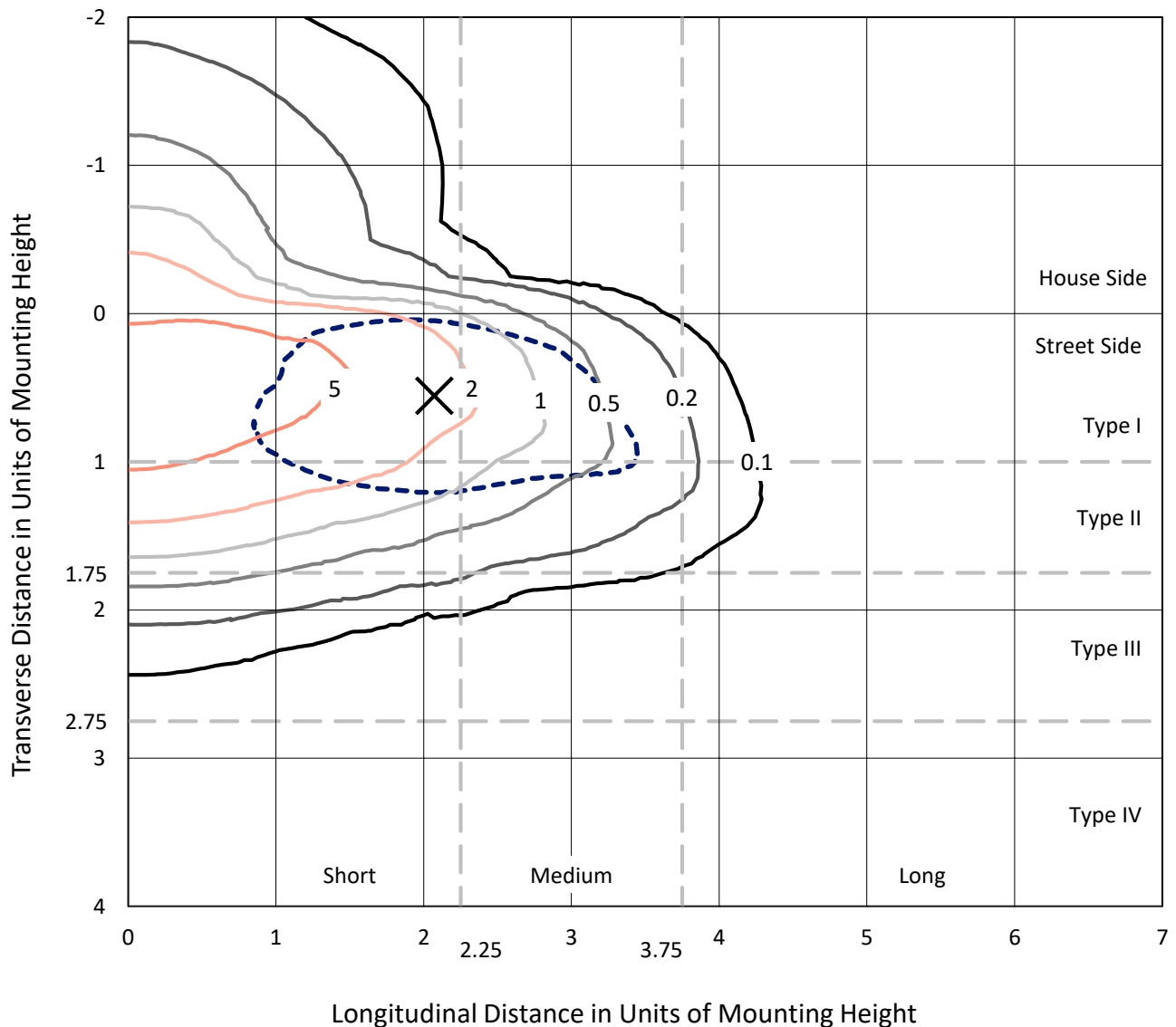


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### Iso-Footcandle Lines of Horizontal Illumination

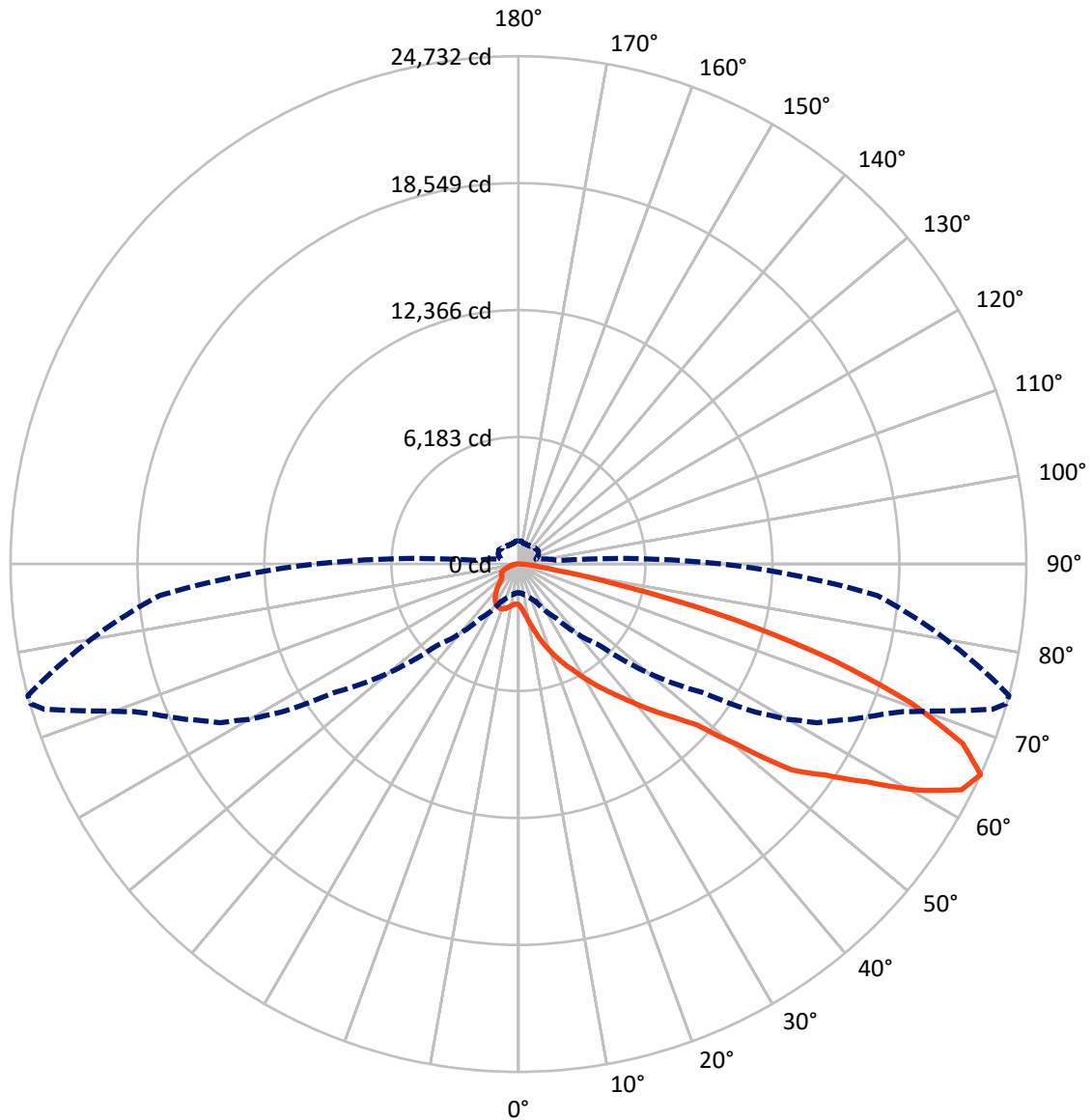
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	3767.6	0.0	3767.6
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	20669.4	0.0	20669.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	24437.0	0.0	24437.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.5	1.0
10°-20°	959.1	3.9
20°-30°	1967.8	8.1
30°-40°	3310.7	13.5
40°-50°	4574.5	18.7
50°-60°	5710.3	23.4
60°-70°	5138.7	21.0
70°-80°	2154.1	8.8
80°-90°	376.3	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°	24437.0	100.0
0°-180°	24437.0	100.0



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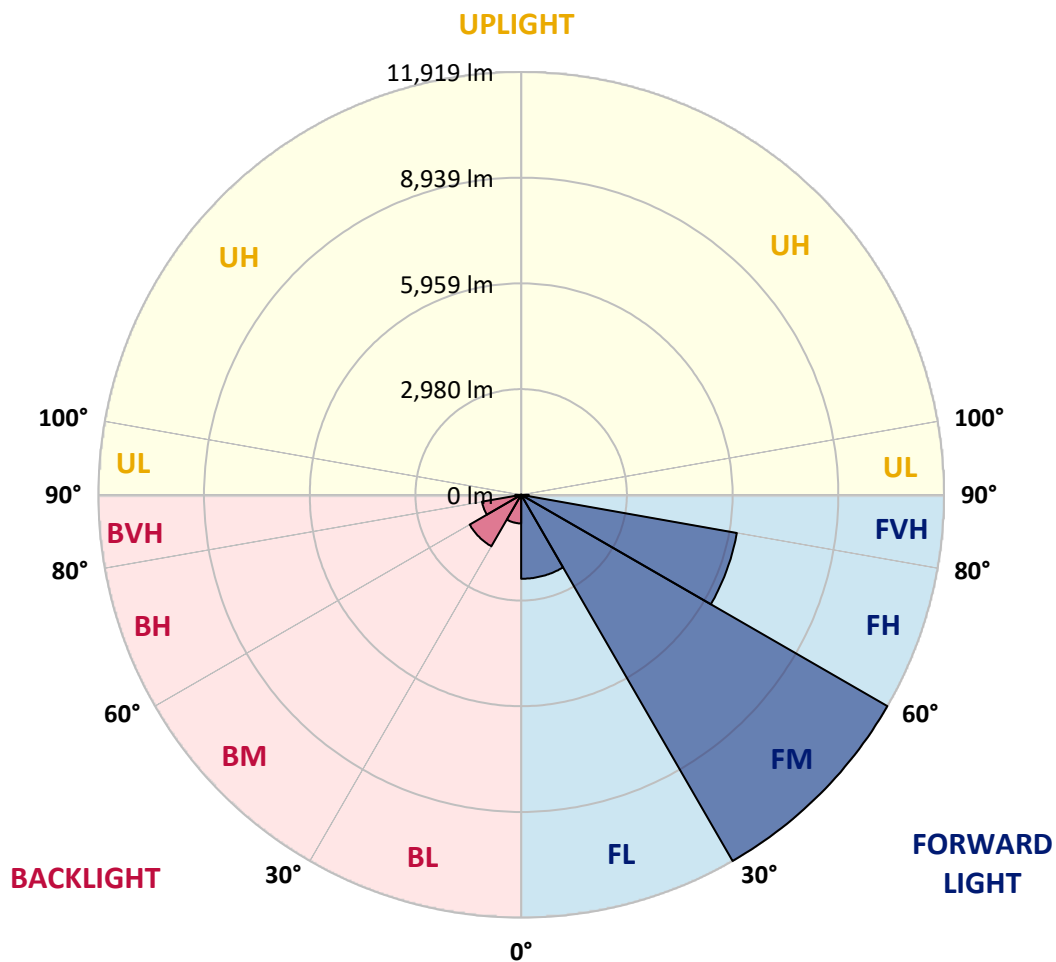
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R-7050-600

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2366.7	9.7			
FM (30°-60°)	11918.5	48.8			
FH (60°-80°)	6172.7	25.3			G3/7500
FVH (80°-90°)	211.5	0.9			G2/225
BL (0°-30°)	805.7	3.3	B2/1000		
BM (30°-60°)	1677.0	6.9	B2/2500		
BH (60°-80°)	1120.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	164.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	2521.5	2493.7	2500.7	2454.4	2397.7	2323.7	2241.6	2240.4	2241.6	2233.5	2203.4
5°	3496.6	3463.0	3450.3	3346.2	3193.5	2976.1	2740.1	2714.7	2704.3	2677.7	2616.3
7.5°	4207.9	4189.4	4169.7	4091.1	3952.3	3709.4	3392.5	3338.1	3286.1	3273.3	3203.9
10°	4667.1	4662.5	4620.8	4600.0	4513.3	4302.8	3993.9	3941.9	3885.2	3865.5	3792.7
12.5°	5030.3	5029.1	5009.5	5015.2	4940.1	4787.4	4521.4	4473.9	4432.3	4372.1	4320.1
15°	5281.3	5282.4	5311.4	5343.7	5332.2	5229.2	4979.4	4958.6	4922.7	4881.1	4819.8
17.5°	5487.2	5492.9	5523.0	5582.0	5645.6	5637.5	5439.7	5422.4	5391.2	5334.5	5302.1
20°	5952.1	5974.1	5916.3	5916.3	5923.2	5954.5	5859.6	5845.7	5801.8	5771.7	5746.3
22.5°	6737.5	6763.0	6632.2	6499.2	6368.5	6273.7	6178.8	6196.2	6166.1	6145.3	6130.3
25°	7757.7	7777.3	7565.7	7341.3	7075.2	6728.3	6493.5	6483.0	6466.8	6454.1	6447.2
27.5°	8717.7	8725.8	8525.7	8197.2	7888.4	7389.9	6812.7	6800.0	6780.3	6756.0	6735.2
30°	9538.9	9536.6	9330.7	9017.3	8686.5	8134.7	7297.3	7258.0	7200.2	7134.2	7083.3
32.5°	10250.3	10246.8	10021.2	9696.2	9349.2	8872.7	7961.2	7880.3	7790.1	7661.7	7584.2
35°	10810.1	10807.8	10594.9	10256.0	9858.2	9567.8	8722.3	8622.9	8508.3	8336.0	8216.9
37.5°	11021.7	11021.7	10902.6	10671.3	10319.7	10120.7	9567.8	9447.5	9324.9	9129.5	8995.3
40°	10898.0	10900.3	10925.7	10883.0	10711.8	10559.1	10356.7	10285.0	10179.7	10003.9	9863.9
42.5°	10482.7	10495.5	10664.3	10871.4	10957.0	10932.7	11056.4	11024.1	10950.0	10814.7	10703.7
45°	9956.5	9995.8	10180.9	10571.8	11025.2	11255.4	11642.9	11646.3	11632.5	11559.6	11474.0
47.5°	9233.6	9289.1	9533.1	10061.7	10865.6	11568.8	12238.5	12269.8	12298.7	12251.3	12211.9
50°	8273.5	8339.5	8705.0	9405.9	10540.6	11893.9	13364.0	13505.1	13636.9	13620.7	13647.4
52.5°	7245.3	7322.8	7770.4	8551.1	9981.9	11969.0	14083.4	14313.6	14543.8	14732.3	14932.4
55°	6317.6	6276.0	6723.6	7546.0	9063.5	11630.1	14730.0	15007.6	15264.4	15495.7	15734.0
57.5°	5060.4	5128.6	5577.4	6390.5	7847.9	10673.6	15175.3	15581.3	15950.2	16333.1	16670.8
60°	3699.0	3767.2	4254.2	5080.0	6528.2	9223.2	14835.2	15450.6	16041.6	16628.0	17086.1
62.5°	2233.5	2284.4	2713.5	3500.0	5033.8	7503.2	13320.0	14127.4	14997.2	15698.1	16400.2
65°	1390.3	1419.2	1577.7	2010.3	3232.8	5601.7	10883.0	11763.2	12700.1	13589.5	14319.4
67.5°	1138.1	1148.6	1177.5	1270.0	1775.5	3652.7	8100.0	8879.6	9725.1	10585.7	11397.7
70°	1023.6	1016.7	1016.7	1022.5	1138.1	1964.0	5303.3	5811.0	6515.4	7263.8	8006.4
72.5°	924.2	917.2	904.5	887.2	928.8	1198.3	2741.3	3124.1	3631.9	4297.0	5008.3
75°	830.5	821.2	806.2	784.2	813.1	904.5	1316.3	1477.0	1724.6	2078.5	2475.2
77.5°	733.3	721.8	707.9	691.7	728.7	703.2	771.5	829.3	924.2	1037.5	1186.7
80°	623.4	613.0	608.4	600.3	644.3	535.5	544.8	580.6	636.2	697.5	766.9
82.5°	488.1	488.1	506.6	510.1	558.7	385.2	407.1	438.4	467.3	499.7	532.1
85°	321.5	323.9	386.3	410.6	440.7	259.1	305.4	315.8	338.9	357.4	371.3
87.5°	100.6	108.7	236.0	261.4	253.3	146.9	187.4	192.0	208.2	220.9	232.5
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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	2203.4	2189.5	2176.8	2175.7	2166.4	2153.7	2158.3	2138.7	2139.8	2129.4	2117.8
5°	2590.9	2581.7	2535.4	2522.7	2488.0	2466.0	2462.5	2416.2	2410.5	2383.9	2354.9
7.5°	3148.4	3118.3	3053.6	3022.3	2963.3	2919.4	2898.6	2837.3	2807.2	2737.8	2706.6
10°	3732.5	3694.4	3614.5	3570.6	3513.9	3443.4	3405.2	3316.1	3281.4	3217.8	3141.5
12.5°	4273.8	4235.7	4153.5	4120.0	4044.8	3969.6	3928.0	3827.4	3782.3	3680.5	3620.3
15°	4774.7	4736.5	4664.8	4630.1	4554.9	4493.6	4438.1	4338.6	4285.4	4190.6	4111.9
17.5°	5260.5	5220.0	5157.5	5126.3	5053.4	4991.0	4930.8	4837.1	4782.8	4687.9	4617.4
20°	5711.6	5681.5	5636.4	5594.7	5521.9	5465.2	5393.5	5312.5	5233.9	5164.5	5097.4
22.5°	6104.8	6093.2	6044.7	6026.2	5963.7	5915.1	5852.7	5772.9	5716.2	5628.3	5565.8
25°	6443.7	6440.2	6417.1	6411.3	6367.4	6321.1	6307.2	6241.3	6189.3	6111.8	6047.0
27.5°	6735.2	6738.7	6732.9	6749.1	6737.5	6716.7	6717.8	6695.9	6665.8	6601.0	6544.3
30°	7059.1	7040.5	7051.0	7074.1	7081.0	7083.3	7121.5	7134.2	7131.9	7089.1	7061.4
32.5°	7517.1	7473.1	7432.7	7429.2	7452.3	7461.6	7526.3	7559.9	7588.8	7599.2	7603.8
35°	8101.2	8013.3	7928.9	7883.7	7844.4	7854.8	7901.1	7955.5	8019.1	8063.0	8115.1
37.5°	8836.8	8729.3	8580.1	8473.6	8447.0	8389.2	8419.3	8462.1	8524.5	8592.8	8683.0
40°	9728.6	9565.5	9397.8	9256.7	9180.4	9073.9	9072.8	9064.7	9102.9	9166.5	9293.7
42.5°	10586.8	10442.3	10264.1	10116.1	10016.6	9874.3	9845.4	9770.3	9787.6	9843.1	9966.9
45°	11390.7	11271.6	11162.9	10991.7	10907.2	10753.4	10704.8	10615.8	10566.0	10591.5	10715.2
47.5°	12169.1	12092.8	11979.5	11868.4	11803.6	11666.0	11603.5	11539.9	11476.3	11474.0	11603.5
50°	13686.7	13646.2	13512.0	13396.4	13427.6	13258.7	13269.1	13097.9	13175.4	13184.7	13456.5
52.5°	15112.8	15253.9	15353.4	15474.9	15553.5	15568.6	15620.6	15698.1	15791.8	15976.9	16229.0
55°	15929.4	16106.4	16209.3	16301.9	16454.5	16486.9	16573.7	16676.6	16758.7	16966.9	17180.9
57.5°	16899.9	17228.4	17388.0	17534.9	17740.7	17819.4	17964.0	18076.2	18182.6	18429.0	18688.0
60°	17497.9	17898.1	18223.1	18455.6	18713.5	18898.6	19117.2	19293.0	19542.8	19837.8	20224.1
62.5°	17022.5	17610.0	18041.5	18440.5	18791.0	19144.9	19458.4	19786.9	20166.3	20612.7	21211.9
65°	15129.0	15727.0	16466.1	16880.2	17344.0	17890.0	18366.5	18898.6	19415.6	20065.6	20951.6
67.5°	12179.6	12874.7	13705.2	14122.7	14656.0	15265.5	15799.9	16449.9	17053.7	17841.4	18936.7
70°	8779.0	9677.7	10376.3	10812.4	11434.7	12062.7	12578.6	13335.1	13834.7	14642.1	15774.4
72.5°	5558.9	6267.9	7123.8	7673.2	8226.1	8862.3	9389.7	10042.1	10508.2	11243.8	12269.8
75°	2988.8	3511.6	4263.4	4785.1	5377.3	5920.9	6538.6	6975.8	7320.5	7902.3	8735.0
77.5°	1400.7	1718.8	2099.3	2500.7	2902.0	3320.8	3727.9	4081.8	4229.9	4563.0	5054.6
80°	850.1	953.1	1064.1	1187.9	1355.6	1490.9	1670.2	1799.8	1809.0	1914.3	2064.6
82.5°	567.9	606.1	639.6	670.9	713.7	747.2	785.4	830.5	849.0	873.3	921.9
85°	387.5	406.0	412.9	432.6	428.0	439.5	454.6	469.6	477.7	476.5	498.5
87.5°	238.3	247.5	252.2	256.8	253.3	248.7	255.6	263.7	266.0	259.1	261.4
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°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	2120.1	2109.7	2099.3	2092.4	2090.1	2028.8	2002.2	1984.8	1947.8	1917.7	1893.4
5°	2338.8	2316.8	2299.4	2278.6	2267.0	2112.0	2055.4	2016.0	1951.3	1913.1	1878.4
7.5°	2690.4	2629.1	2593.2	2552.7	2518.0	2238.1	2144.4	2083.1	1992.9	1942.0	1902.7
10°	3089.4	3025.8	2969.1	2906.7	2852.3	2405.8	2269.4	2174.5	2055.4	1989.4	1937.4
12.5°	3534.7	3472.3	3400.6	3320.8	3251.4	2618.7	2429.0	2293.6	2130.6	2042.6	1969.8
15°	4061.0	3951.1	3864.4	3771.8	3690.9	2873.1	2615.2	2427.8	2210.4	2091.2	1994.1
17.5°	4550.3	4434.6	4316.6	4235.7	4142.0	3158.8	2802.6	2564.3	2276.3	2122.5	1998.7
20°	5028.0	4901.9	4800.1	4691.4	4593.1	3454.9	3002.7	2684.6	2319.1	2123.6	1969.8
22.5°	5449.0	5370.3	5257.0	5139.0	5039.5	3751.0	3190.0	2786.4	2335.3	2097.0	1918.9
25°	5927.8	5844.6	5705.8	5606.3	5495.3	4052.9	3374.0	2865.0	2326.0	2047.3	1840.2
27.5°	6439.1	6346.6	6204.3	6100.2	5966.0	4366.4	3542.8	2921.7	2291.3	1966.3	1735.0
30°	6972.3	6887.9	6747.9	6642.7	6507.3	4698.3	3731.4	2959.9	2221.9	1854.1	1612.4
32.5°	7544.8	7474.3	7335.5	7225.6	7081.0	5058.0	3907.2	2971.4	2116.7	1721.1	1482.8
35°	8088.5	8039.9	7923.1	7820.1	7669.8	5398.1	4093.4	2965.7	1991.8	1575.4	1364.9
37.5°	8700.3	8671.4	8613.6	8482.9	8299.0	5859.6	4316.6	2941.4	1839.1	1430.8	1274.6
40°	9352.7	9355.0	9292.6	9203.5	9032.3	6419.4	4582.7	2893.9	1672.5	1303.5	1192.5
42.5°	10043.2	10079.1	10049.0	9985.4	9821.1	6983.9	4900.7	2836.1	1510.6	1179.8	1111.5
45°	10834.4	10878.3	10924.6	10830.9	10671.3	7728.8	5319.4	2760.9	1335.9	1076.8	1056.0
47.5°	11747.0	11816.4	11858.0	11859.2	11699.5	8651.8	5999.6	2715.8	1180.9	1007.4	1029.4
50°	13672.8	13694.8	13793.1	13964.3	13841.7	10788.1	7187.4	2688.1	1075.7	964.6	1009.8
52.5°	16447.6	16689.4	16859.4	16847.8	16681.3	12144.9	7842.1	2544.6	1013.2	948.5	1000.5
55°	17577.7	17879.5	18194.2	18277.4	18147.9	13302.7	8460.9	2401.2	983.2	960.0	1004.0
57.5°	19083.6	19592.6	20024.0	20205.6	20018.2	14784.3	9275.2	2326.0	973.9	991.3	1026.0
60°	20842.9	21472.1	22038.9	22365.0	22365.0	16486.9	10119.6	2294.8	961.2	1037.5	1063.0
62.5°	21972.9	22897.1	23753.0	24230.7	24216.8	17672.5	10494.3	2188.4	932.3	1069.9	1113.9
65°	21977.6	23076.4	24167.1	24703.8	24731.6	17526.8	9875.5	1932.8	879.1	1074.5	1164.7
67.5°	20145.4	21317.1	22588.3	23188.6	23327.4	16134.2	8548.8	1589.2	792.3	1028.3	1183.3
70°	17014.4	18158.3	19456.1	20046.0	20292.3	13753.8	6885.6	1224.9	681.3	926.5	1145.1
72.5°	13404.5	14526.4	15429.8	15861.2	16053.2	10512.8	5014.1	925.3	558.7	780.7	1042.1
75°	9490.3	10332.4	10812.4	10908.4	10938.5	6337.3	3046.6	688.2	460.3	607.2	880.2
77.5°	5356.5	5717.3	5678.0	5720.8	5364.6	2446.3	1326.7	492.7	379.4	461.5	682.4
80°	2091.2	2156.0	2025.3	1984.8	1820.6	910.3	585.3	343.5	303.0	349.3	477.7
82.5°	921.9	951.9	924.2	931.1	890.6	469.6	350.5	248.7	231.3	255.6	316.9
85°	507.8	517.0	514.7	529.7	507.8	187.4	166.6	152.7	161.9	173.5	203.6
87.5°	247.5	249.8	241.7	254.5	246.4	94.8	82.1	86.7	94.8	97.2	97.2
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):**

	135°	145°	155°	165°	175°	180°
0°	1986.0	1986.0	1986.0	1986.0	1986.0	1986.0
2.5°	1876.1	1866.8	1868.0	1865.7	1861.1	1861.1
5°	1859.9	1850.6	1850.6	1848.3	1842.5	1843.7
7.5°	1876.1	1861.1	1855.3	1847.2	1839.1	1839.1
10°	1894.6	1868.0	1851.8	1837.9	1827.5	1827.5
12.5°	1908.5	1866.8	1840.2	1821.7	1811.3	1811.3
15°	1913.1	1858.7	1821.7	1799.8	1790.5	1789.3
17.5°	1898.1	1827.5	1782.4	1757.0	1745.4	1741.9
20°	1851.8	1770.8	1716.5	1687.6	1671.4	1665.6
22.5°	1782.4	1689.9	1626.3	1596.2	1575.4	1571.9
25°	1685.2	1585.8	1523.3	1494.4	1482.8	1479.4
27.5°	1571.9	1479.4	1426.2	1407.6	1397.2	1396.1
30°	1464.3	1385.7	1346.3	1332.5	1319.7	1317.4
32.5°	1363.7	1314.0	1298.9	1279.3	1249.2	1245.7
35°	1292.0	1287.4	1276.9	1233.0	1196.0	1185.6
37.5°	1248.0	1290.8	1237.6	1150.9	1124.3	1122.0
40°	1222.6	1255.0	1163.6	1133.5	1135.8	1133.5
42.5°	1164.7	1198.3	1165.9	1152.0	1161.3	1163.6
45°	1106.9	1143.9	1183.3	1174.0	1196.0	1196.0
47.5°	1074.5	1130.1	1182.1	1182.1	1214.5	1226.1
50°	1037.5	1118.5	1163.6	1179.8	1205.2	1196.0
52.5°	1035.2	1098.8	1137.0	1165.9	1177.5	1167.1
55°	1038.7	1082.6	1110.4	1142.8	1156.7	1157.8
57.5°	1043.3	1073.4	1091.9	1106.9	1148.6	1148.6
60°	1054.9	1065.3	1075.7	1083.8	1138.1	1139.3
62.5°	1073.4	1057.2	1054.9	1063.0	1132.4	1127.7
65°	1102.3	1045.6	1028.3	1036.4	1126.6	1112.7
67.5°	1141.6	1028.3	994.7	1000.5	1122.0	1091.9
70°	1177.5	1000.5	953.1	947.3	1078.0	1024.8
72.5°	1180.9	968.1	895.2	877.9	936.9	886.0
75°	1123.1	946.1	831.6	780.7	773.8	766.9
77.5°	1012.1	933.4	757.6	677.8	663.9	668.5
80°	846.7	886.0	668.5	573.7	648.9	640.8
82.5°	632.7	781.9	567.9	507.8	506.6	447.6
85°	351.6	609.6	462.7	380.5	264.9	256.8
87.5°	98.3	338.9	323.9	215.1	146.9	152.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)