

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: P192196

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192196  
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-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 32745 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 257  
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

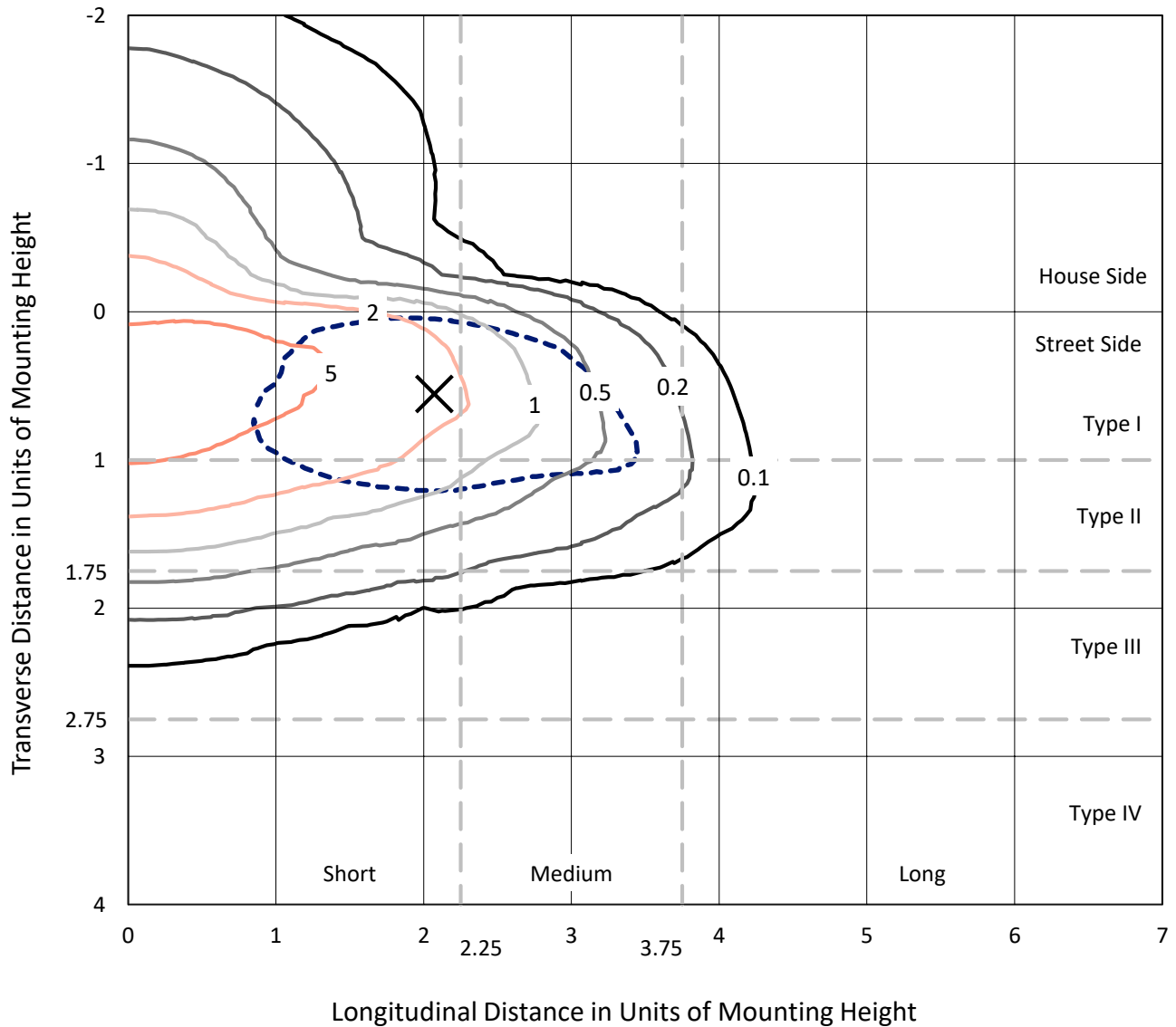


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### Iso-Footcandle Lines of Horizontal Illumination

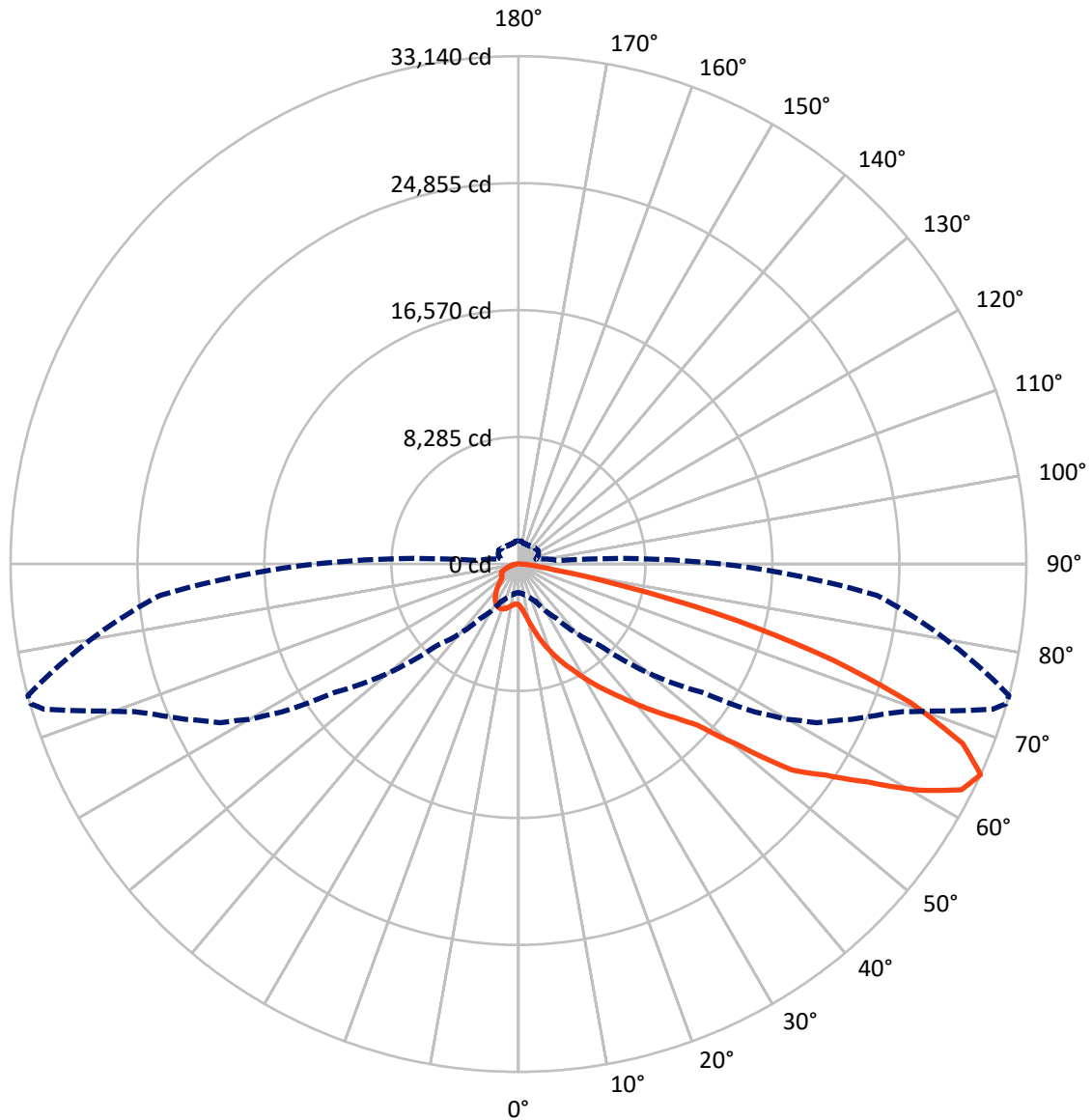
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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    | 5048.5   | 0.0    | 5048.5  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 27696.5  | 0.0    | 27696.5 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 32745.0  | 0.0    | 32745.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 328.9   | 1.0       |
| 10°-20°   | 1285.2  | 3.9       |
| 20°-30°   | 2636.8  | 8.1       |
| 30°-40°   | 4436.3  | 13.5      |
| 40°-50°   | 6129.7  | 18.7      |
| 50°-60°   | 7651.7  | 23.4      |
| 60°-70°   | 6885.7  | 21.0      |
| 70°-80°   | 2886.4  | 8.8       |
| 80°-90°   | 504.3   | 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°    | 32745.0 | 100.0     |
| 0°-180°   | 32745.0 | 100.0     |

**Coefficient of Utilization**



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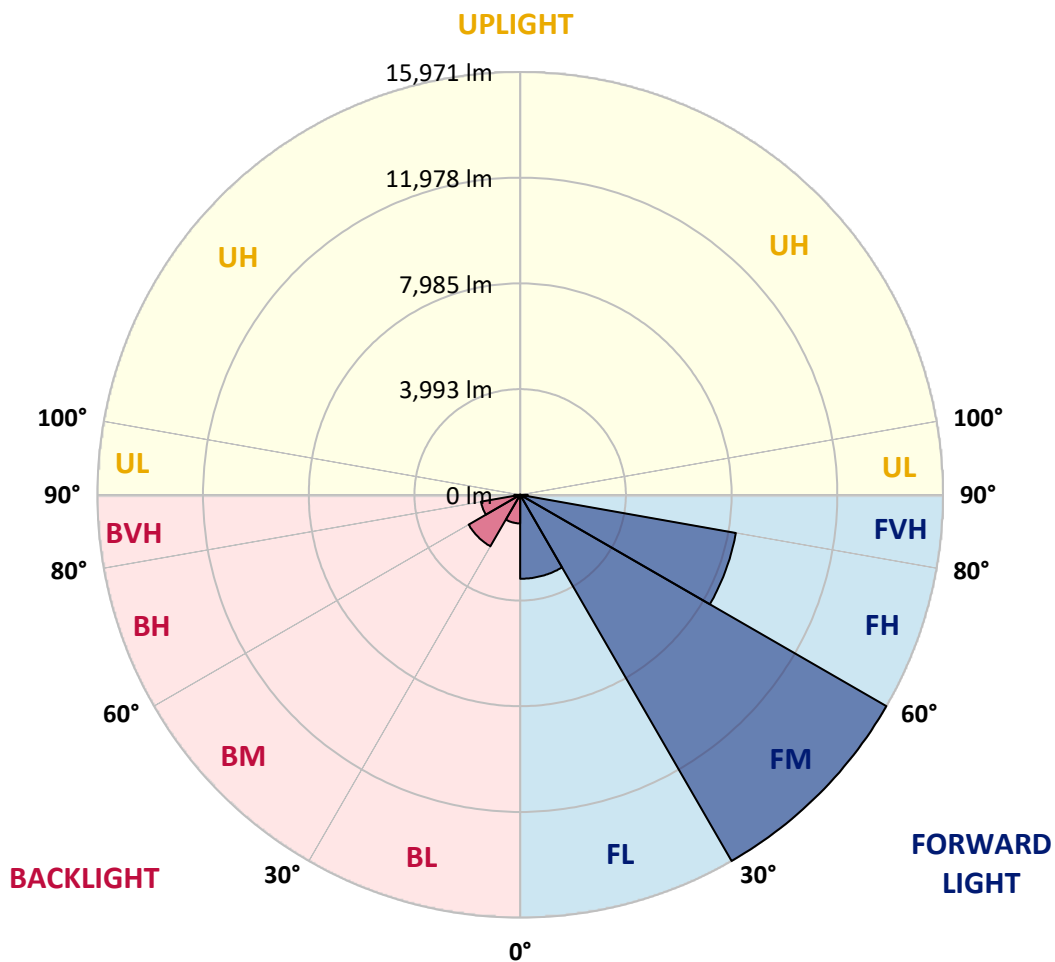
CATALOG NUMBER: GLEON-AF-08-LED-E1-T2R-7050-600

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3171.3  | 9.7       |                         |      |          |
| FM (30°-60°)   | 15970.5 | 48.8      |                         |      |          |
| FH (60°-80°)   | 8271.3  | 25.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 283.4   | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1079.7  | 3.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 2247.1  | 6.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 1500.9  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 220.8   | 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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  |
| 2.5°  | 3378.8  | 3341.6  | 3350.9  | 3288.9  | 3212.9  | 3113.7  | 3003.7  | 3002.1  | 3003.7  | 2992.8  | 2952.5  |
| 5°    | 4685.3  | 4640.4  | 4623.3  | 4483.8  | 4279.2  | 3987.9  | 3671.7  | 3637.6  | 3623.6  | 3588.0  | 3505.8  |
| 7.5°  | 5638.5  | 5613.7  | 5587.3  | 5482.0  | 5296.0  | 4970.5  | 4545.8  | 4473.0  | 4403.2  | 4386.2  | 4293.2  |
| 10°   | 6253.8  | 6247.6  | 6191.8  | 6163.9  | 6047.7  | 5765.6  | 5351.8  | 5282.0  | 5206.1  | 5179.7  | 5082.1  |
| 12.5° | 6740.5  | 6738.9  | 6712.6  | 6720.3  | 6619.6  | 6415.0  | 6058.5  | 5995.0  | 5939.2  | 5858.6  | 5788.8  |
| 15°   | 7076.8  | 7078.3  | 7117.1  | 7160.5  | 7145.0  | 7007.0  | 6672.3  | 6644.4  | 6596.3  | 6540.5  | 6458.4  |
| 17.5° | 7352.7  | 7360.4  | 7400.7  | 7479.8  | 7565.0  | 7554.2  | 7289.1  | 7265.9  | 7224.0  | 7148.1  | 7104.7  |
| 20°   | 7975.7  | 8005.2  | 7927.7  | 7927.7  | 7937.0  | 7978.8  | 7851.7  | 7833.1  | 7774.2  | 7733.9  | 7699.8  |
| 22.5° | 9028.1  | 9062.2  | 8887.1  | 8708.8  | 8533.7  | 8406.6  | 8279.5  | 8302.7  | 8262.5  | 8234.6  | 8214.4  |
| 25°   | 10395.1 | 10421.4 | 10137.8 | 9837.1  | 9480.7  | 9015.7  | 8701.1  | 8687.1  | 8665.4  | 8648.4  | 8639.1  |
| 27.5° | 11681.5 | 11692.4 | 11424.2 | 10984.1 | 10570.2 | 9902.2  | 9128.8  | 9111.8  | 9085.4  | 9052.9  | 9025.0  |
| 30°   | 12781.9 | 12778.8 | 12502.9 | 12082.9 | 11639.7 | 10900.4 | 9778.2  | 9725.5  | 9648.1  | 9559.7  | 9491.5  |
| 32.5° | 13735.1 | 13730.5 | 13428.2 | 12992.7 | 12527.7 | 11889.2 | 10667.9 | 10559.4 | 10438.5 | 10266.5 | 10162.6 |
| 35°   | 14485.3 | 14482.2 | 14197.0 | 13742.9 | 13209.7 | 12820.7 | 11687.7 | 11554.4 | 11401.0 | 11170.0 | 11010.4 |
| 37.5° | 14768.9 | 14768.9 | 14609.2 | 14299.3 | 13828.1 | 13561.5 | 12820.7 | 12659.5 | 12495.2 | 12233.3 | 12053.5 |
| 40°   | 14603.0 | 14606.1 | 14640.2 | 14582.9 | 14353.5 | 14148.9 | 13877.7 | 13781.6 | 13640.6 | 13405.0 | 13217.4 |
| 42.5° | 14046.6 | 14063.7 | 14290.0 | 14567.4 | 14682.1 | 14649.5 | 14815.4 | 14772.0 | 14672.8 | 14491.5 | 14342.7 |
| 45°   | 13341.4 | 13394.1 | 13642.1 | 14166.0 | 14773.5 | 15082.0 | 15601.2 | 15605.8 | 15587.2 | 15489.6 | 15374.9 |
| 47.5° | 12372.8 | 12447.2 | 12774.2 | 13482.5 | 14559.6 | 15502.0 | 16399.4 | 16441.2 | 16480.0 | 16416.4 | 16363.7 |
| 50°   | 11086.3 | 11174.7 | 11664.5 | 12603.7 | 14124.1 | 15937.5 | 17907.4 | 18096.5 | 18273.2 | 18251.5 | 18287.1 |
| 52.5° | 9708.5  | 9812.3  | 10412.1 | 11458.3 | 13375.5 | 16038.2 | 18871.4 | 19179.9 | 19488.3 | 19740.9 | 20009.1 |
| 55°   | 8465.5  | 8409.7  | 9009.5  | 10111.5 | 12144.9 | 15584.1 | 19737.8 | 20109.8 | 20453.9 | 20763.8 | 21083.1 |
| 57.5° | 6780.8  | 6872.2  | 7473.6  | 8563.1  | 10516.0 | 14302.4 | 20334.5 | 20878.5 | 21373.0 | 21886.0 | 22338.5 |
| 60°   | 4956.5  | 5048.0  | 5700.5  | 6807.1  | 8747.6  | 12358.8 | 19878.9 | 20703.4 | 21495.4 | 22281.2 | 22894.9 |
| 62.5° | 2992.8  | 3061.0  | 3636.0  | 4690.0  | 6745.1  | 10054.1 | 17848.5 | 18930.3 | 20095.8 | 21035.1 | 21975.9 |
| 65°   | 1863.0  | 1901.7  | 2114.0  | 2693.7  | 4331.9  | 7506.1  | 14582.9 | 15762.4 | 17017.8 | 18209.6 | 19187.6 |
| 67.5° | 1525.1  | 1539.0  | 1577.8  | 1701.8  | 2379.1  | 4894.5  | 10853.9 | 11898.5 | 13031.5 | 14184.6 | 15272.6 |
| 70°   | 1371.7  | 1362.4  | 1362.4  | 1370.1  | 1525.1  | 2631.7  | 7106.2  | 7786.6  | 8730.5  | 9733.3  | 10728.3 |
| 72.5° | 1238.4  | 1229.1  | 1212.0  | 1188.8  | 1244.6  | 1605.7  | 3673.2  | 4186.2  | 4866.6  | 5757.8  | 6711.0  |
| 75°   | 1112.8  | 1100.4  | 1080.3  | 1050.8  | 1089.6  | 1212.0  | 1763.8  | 1979.2  | 2310.9  | 2785.1  | 3316.8  |
| 77.5° | 982.6   | 967.1   | 948.5   | 926.8   | 976.4   | 942.3   | 1033.8  | 1111.3  | 1238.4  | 1390.2  | 1590.2  |
| 80°   | 835.4   | 821.4   | 815.2   | 804.4   | 863.3   | 717.6   | 730.0   | 778.0   | 852.4   | 934.6   | 1027.6  |
| 82.5° | 654.1   | 654.1   | 678.9   | 683.5   | 748.6   | 516.1   | 545.6   | 587.4   | 626.2   | 669.6   | 712.9   |
| 85°   | 430.9   | 434.0   | 517.7   | 550.2   | 590.5   | 347.2   | 409.2   | 423.1   | 454.1   | 478.9   | 497.5   |
| 87.5° | 134.8   | 145.7   | 316.2   | 350.3   | 339.4   | 196.8   | 251.1   | 257.3   | 279.0   | 296.0   | 311.5   |
| 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°    | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  |
| 2.5°  | 2952.5  | 2933.9  | 2916.9  | 2915.3  | 2902.9  | 2885.9  | 2892.1  | 2865.7  | 2867.3  | 2853.3  | 2837.8  |
| 5°    | 3471.7  | 3459.3  | 3397.4  | 3380.3  | 3333.8  | 3304.4  | 3299.7  | 3237.7  | 3230.0  | 3194.3  | 3155.6  |
| 7.5°  | 4218.8  | 4178.5  | 4091.7  | 4049.9  | 3970.8  | 3911.9  | 3884.0  | 3801.9  | 3761.6  | 3668.6  | 3626.7  |
| 10°   | 5001.5  | 4950.3  | 4843.4  | 4784.5  | 4708.6  | 4614.0  | 4562.9  | 4443.5  | 4397.0  | 4311.8  | 4209.5  |
| 12.5° | 5726.8  | 5675.7  | 5565.6  | 5520.7  | 5420.0  | 5319.2  | 5263.4  | 5128.6  | 5068.1  | 4931.7  | 4851.1  |
| 15°   | 6397.9  | 6346.8  | 6250.7  | 6204.2  | 6103.5  | 6021.3  | 5946.9  | 5813.6  | 5742.3  | 5615.2  | 5509.9  |
| 17.5° | 7048.9  | 6994.6  | 6911.0  | 6869.1  | 6771.5  | 6687.8  | 6607.2  | 6481.6  | 6408.8  | 6281.7  | 6187.2  |
| 20°   | 7653.3  | 7613.0  | 7552.6  | 7496.8  | 7399.2  | 7323.2  | 7227.1  | 7118.6  | 7013.2  | 6920.2  | 6830.4  |
| 22.5° | 8180.3  | 8164.8  | 8099.7  | 8074.9  | 7991.2  | 7926.1  | 7842.4  | 7735.5  | 7659.5  | 7541.8  | 7458.1  |
| 25°   | 8634.4  | 8629.8  | 8598.8  | 8591.0  | 8532.1  | 8470.1  | 8451.5  | 8363.2  | 8293.5  | 8189.6  | 8102.8  |
| 27.5° | 9025.0  | 9029.6  | 9021.9  | 9043.6  | 9028.1  | 9000.2  | 9001.7  | 8972.3  | 8932.0  | 8845.2  | 8769.3  |
| 30°   | 9459.0  | 9434.2  | 9448.1  | 9479.1  | 9488.4  | 9491.5  | 9542.7  | 9559.7  | 9556.6  | 9499.3  | 9462.1  |
| 32.5° | 10072.7 | 10013.8 | 9959.6  | 9954.9  | 9985.9  | 9998.3  | 10085.1 | 10130.1 | 10168.8 | 10182.8 | 10189.0 |
| 35°   | 10855.4 | 10737.6 | 10624.5 | 10564.0 | 10511.3 | 10525.3 | 10587.3 | 10660.1 | 10745.4 | 10804.3 | 10874.0 |
| 37.5° | 11841.1 | 11697.0 | 11497.1 | 11354.5 | 11318.8 | 11241.3 | 11281.6 | 11339.0 | 11422.7 | 11514.1 | 11635.0 |
| 40°   | 13036.1 | 12817.6 | 12592.8 | 12403.8 | 12301.5 | 12158.9 | 12157.3 | 12146.5 | 12197.6 | 12282.9 | 12453.3 |
| 42.5° | 14186.1 | 13992.4 | 13753.7 | 13555.3 | 13422.0 | 13231.4 | 13192.6 | 13091.9 | 13115.2 | 13189.5 | 13355.4 |
| 45°   | 15263.3 | 15103.7 | 14958.0 | 14728.6 | 14615.4 | 14409.3 | 14344.2 | 14224.9 | 14158.2 | 14192.3 | 14358.2 |
| 47.5° | 16306.4 | 16204.1 | 16052.2 | 15903.4 | 15816.6 | 15632.2 | 15548.5 | 15463.2 | 15378.0 | 15374.9 | 15548.5 |
| 50°   | 18339.8 | 18285.6 | 18105.8 | 17950.8 | 17992.6 | 17766.4 | 17780.3 | 17550.9 | 17654.8 | 17667.2 | 18031.4 |
| 52.5° | 20250.8 | 20439.9 | 20573.2 | 20736.0 | 20841.3 | 20861.5 | 20931.2 | 21035.1 | 21160.6 | 21408.6 | 21746.5 |
| 55°   | 21345.1 | 21582.2 | 21720.1 | 21844.1 | 22048.7 | 22092.1 | 22208.3 | 22346.3 | 22456.3 | 22735.3 | 23022.0 |
| 57.5° | 22645.4 | 23085.6 | 23299.5 | 23496.3 | 23772.2 | 23877.6 | 24071.3 | 24221.6 | 24364.2 | 24694.4 | 25041.5 |
| 60°   | 23446.7 | 23983.0 | 24418.5 | 24730.0 | 25075.6 | 25323.6 | 25616.5 | 25852.1 | 26186.9 | 26582.1 | 27099.8 |
| 62.5° | 22809.7 | 23597.0 | 24175.2 | 24709.9 | 25179.5 | 25653.7 | 26073.8 | 26513.9 | 27022.3 | 27620.6 | 28423.4 |
| 65°   | 20272.5 | 21073.8 | 22064.2 | 22619.1 | 23240.6 | 23972.1 | 24610.7 | 25323.6 | 26016.4 | 26887.5 | 28074.7 |
| 67.5° | 16320.3 | 17251.8 | 18364.6 | 18924.1 | 19638.6 | 20455.4 | 21171.5 | 22042.5 | 22851.5 | 23907.0 | 25374.8 |
| 70°   | 11763.6 | 12967.9 | 13904.0 | 14488.4 | 15322.2 | 16163.8 | 16855.0 | 17868.7 | 18538.2 | 19620.0 | 21137.4 |
| 72.5° | 7448.8  | 8398.8  | 9545.8  | 10282.0 | 11022.8 | 11875.2 | 12582.0 | 13456.1 | 14080.7 | 15066.5 | 16441.2 |
| 75°   | 4004.9  | 4705.5  | 5712.9  | 6411.9  | 7205.4  | 7933.9  | 8761.5  | 9347.4  | 9809.2  | 10588.8 | 11704.8 |
| 77.5° | 1876.9  | 2303.1  | 2813.0  | 3350.9  | 3888.7  | 4449.7  | 4995.3  | 5469.6  | 5667.9  | 6114.3  | 6773.0  |
| 80°   | 1139.2  | 1277.1  | 1425.9  | 1591.7  | 1816.5  | 1997.8  | 2238.0  | 2411.6  | 2424.0  | 2565.1  | 2766.5  |
| 82.5° | 761.0   | 812.1   | 857.1   | 898.9   | 956.3   | 1001.2  | 1052.4  | 1112.8  | 1137.6  | 1170.2  | 1235.3  |
| 85°   | 519.2   | 544.0   | 553.3   | 579.7   | 573.5   | 589.0   | 609.1   | 629.3   | 640.1   | 638.6   | 668.0   |
| 87.5° | 319.3   | 331.7   | 337.9   | 344.1   | 339.4   | 333.2   | 342.5   | 353.4   | 356.5   | 347.2   | 350.3   |
| 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°    | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2  | 2661.2 | 2661.2 | 2661.2 | 2661.2 |
| 2.5°  | 2840.9  | 2827.0  | 2813.0  | 2803.7  | 2800.6  | 2718.5  | 2682.9  | 2659.6 | 2610.0 | 2569.7 | 2537.2 |
| 5°    | 3133.9  | 3104.4  | 3081.2  | 3053.3  | 3037.8  | 2830.1  | 2754.2  | 2701.5 | 2614.7 | 2563.5 | 2517.0 |
| 7.5°  | 3605.0  | 3522.9  | 3474.8  | 3420.6  | 3374.1  | 2999.0  | 2873.5  | 2791.3 | 2670.5 | 2602.3 | 2549.6 |
| 10°   | 4139.8  | 4054.5  | 3978.6  | 3894.9  | 3822.0  | 3223.8  | 3040.9  | 2913.8 | 2754.2 | 2665.8 | 2596.1 |
| 12.5° | 4736.5  | 4652.8  | 4556.7  | 4449.7  | 4356.7  | 3508.9  | 3254.8  | 3073.4 | 2854.9 | 2737.1 | 2639.5 |
| 15°   | 5441.7  | 5294.4  | 5178.2  | 5054.2  | 4945.7  | 3849.9  | 3504.3  | 3253.2 | 2961.8 | 2802.2 | 2672.0 |
| 17.5° | 6097.3  | 5942.3  | 5784.2  | 5675.7  | 5550.1  | 4232.7  | 3755.4  | 3436.1 | 3050.2 | 2844.0 | 2678.2 |
| 20°   | 6737.4  | 6568.4  | 6432.0  | 6286.3  | 6154.6  | 4629.5  | 4023.5  | 3597.3 | 3107.5 | 2845.6 | 2639.5 |
| 22.5° | 7301.5  | 7196.1  | 7044.2  | 6886.2  | 6752.9  | 5026.3  | 4274.6  | 3733.7 | 3129.2 | 2809.9 | 2571.3 |
| 25°   | 7943.2  | 7831.6  | 7645.6  | 7512.3  | 7363.5  | 5430.8  | 4521.0  | 3839.1 | 3116.8 | 2743.3 | 2465.9 |
| 27.5° | 8628.2  | 8504.2  | 8313.6  | 8174.1  | 7994.3  | 5850.8  | 4747.3  | 3915.0 | 3070.3 | 2634.8 | 2324.8 |
| 30°   | 9342.7  | 9229.6  | 9042.0  | 8901.0  | 8719.7  | 6295.6  | 4999.9  | 3966.2 | 2977.3 | 2484.5 | 2160.5 |
| 32.5° | 10109.9 | 10015.4 | 9829.4  | 9682.2  | 9488.4  | 6777.7  | 5235.5  | 3981.7 | 2836.3 | 2306.2 | 1987.0 |
| 35°   | 10838.4 | 10773.3 | 10616.7 | 10478.8 | 10277.3 | 7233.3  | 5485.1  | 3973.9 | 2668.9 | 2110.9 | 1828.9 |
| 37.5° | 11658.3 | 11619.5 | 11542.0 | 11366.9 | 11120.4 | 7851.7  | 5784.2  | 3941.4 | 2464.3 | 1917.2 | 1708.0 |
| 40°   | 12532.4 | 12535.5 | 12451.8 | 12332.5 | 12103.1 | 8601.9  | 6140.7  | 3877.8 | 2241.1 | 1746.7 | 1597.9 |
| 42.5° | 13457.7 | 13505.7 | 13465.4 | 13380.2 | 13160.1 | 9358.2  | 6566.9  | 3800.3 | 2024.2 | 1580.9 | 1489.4 |
| 45°   | 14517.8 | 14576.7 | 14638.7 | 14513.2 | 14299.3 | 10356.4 | 7127.9  | 3699.6 | 1790.1 | 1442.9 | 1415.0 |
| 47.5° | 15740.7 | 15833.7 | 15889.5 | 15891.0 | 15677.1 | 11593.2 | 8039.3  | 3639.1 | 1582.4 | 1350.0 | 1379.4 |
| 50°   | 18321.2 | 18350.7 | 18482.4 | 18711.8 | 18547.5 | 14455.8 | 9631.0  | 3601.9 | 1441.4 | 1292.6 | 1353.1 |
| 52.5° | 22039.4 | 22363.3 | 22591.2 | 22575.7 | 22352.5 | 16273.8 | 10508.2 | 3409.8 | 1357.7 | 1270.9 | 1340.7 |
| 55°   | 23553.6 | 23958.2 | 24379.7 | 24491.3 | 24317.7 | 17825.3 | 11337.4 | 3217.6 | 1317.4 | 1286.4 | 1345.3 |
| 57.5° | 25571.6 | 26253.6 | 26831.7 | 27075.0 | 26823.9 | 19810.7 | 12428.6 | 3116.8 | 1305.0 | 1328.3 | 1374.8 |
| 60°   | 27929.0 | 28772.1 | 29531.6 | 29968.6 | 29968.6 | 22092.1 | 13560.0 | 3075.0 | 1288.0 | 1390.2 | 1424.3 |
| 62.5° | 29443.2 | 30681.6 | 31828.5 | 32468.6 | 32450.0 | 23680.7 | 14062.1 | 2932.4 | 1249.2 | 1433.6 | 1492.5 |
| 65°   | 29449.4 | 30921.8 | 32383.4 | 33102.5 | 33139.7 | 23485.5 | 13232.9 | 2589.9 | 1177.9 | 1439.8 | 1560.7 |
| 67.5° | 26994.4 | 28564.4 | 30267.8 | 31072.2 | 31258.1 | 21619.4 | 11455.2 | 2129.5 | 1061.7 | 1377.9 | 1585.5 |
| 70°   | 22798.9 | 24331.7 | 26070.7 | 26861.1 | 27191.2 | 18429.7 | 9226.5  | 1641.3 | 912.9  | 1241.5 | 1534.4 |
| 72.5° | 17961.7 | 19465.0 | 20675.5 | 21253.6 | 21510.9 | 14086.9 | 6718.8  | 1239.9 | 748.6  | 1046.2 | 1396.4 |
| 75°   | 12716.8 | 13845.1 | 14488.4 | 14617.0 | 14657.3 | 8491.8  | 4082.4  | 922.2  | 616.9  | 813.7  | 1179.5 |
| 77.5° | 7177.5  | 7661.1  | 7608.4  | 7665.7  | 7188.4  | 3278.0  | 1777.7  | 660.3  | 508.4  | 618.4  | 914.4  |
| 80°   | 2802.2  | 2889.0  | 2713.9  | 2659.6  | 2439.5  | 1219.8  | 784.2   | 460.3  | 406.1  | 468.1  | 640.1  |
| 82.5° | 1235.3  | 1275.6  | 1238.4  | 1247.7  | 1193.4  | 629.3   | 469.6   | 333.2  | 310.0  | 342.5  | 424.7  |
| 85°   | 680.4   | 692.8   | 689.7   | 709.8   | 680.4   | 251.1   | 223.2   | 204.6  | 217.0  | 232.5  | 272.8  |
| 87.5° | 331.7   | 334.8   | 323.9   | 341.0   | 330.1   | 127.1   | 110.0   | 116.2  | 127.1  | 130.2  | 130.2  |
| 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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|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 2661.2 | 2661.2 | 2661.2 | 2661.2 | 2661.2 | 2661.2 |
| 2.5°  | 2513.9 | 2501.5 | 2503.1 | 2500.0 | 2493.8 | 2493.8 |
| 5°    | 2492.2 | 2479.8 | 2479.8 | 2476.7 | 2469.0 | 2470.5 |
| 7.5°  | 2513.9 | 2493.8 | 2486.0 | 2475.2 | 2464.3 | 2464.3 |
| 10°   | 2538.7 | 2503.1 | 2481.4 | 2462.8 | 2448.8 | 2448.8 |
| 12.5° | 2557.3 | 2501.5 | 2465.9 | 2441.1 | 2427.1 | 2427.1 |
| 15°   | 2563.5 | 2490.7 | 2441.1 | 2411.6 | 2399.2 | 2397.7 |
| 17.5° | 2543.4 | 2448.8 | 2388.4 | 2354.3 | 2338.8 | 2334.1 |
| 20°   | 2481.4 | 2372.9 | 2300.0 | 2261.3 | 2239.6 | 2231.8 |
| 22.5° | 2388.4 | 2264.4 | 2179.1 | 2138.8 | 2110.9 | 2106.3 |
| 25°   | 2258.2 | 2124.9 | 2041.2 | 2002.5 | 1987.0 | 1982.3 |
| 27.5° | 2106.3 | 1982.3 | 1911.0 | 1886.2 | 1872.3 | 1870.7 |
| 30°   | 1962.2 | 1856.8 | 1804.1 | 1785.5 | 1768.4 | 1765.3 |
| 32.5° | 1827.3 | 1760.7 | 1740.5 | 1714.2 | 1673.9 | 1669.2 |
| 35°   | 1731.2 | 1725.0 | 1711.1 | 1652.2 | 1602.6 | 1588.6 |
| 37.5° | 1672.3 | 1729.7 | 1658.4 | 1542.1 | 1506.5 | 1503.4 |
| 40°   | 1638.2 | 1681.6 | 1559.2 | 1518.9 | 1522.0 | 1518.9 |
| 42.5° | 1560.7 | 1605.7 | 1562.3 | 1543.7 | 1556.1 | 1559.2 |
| 45°   | 1483.2 | 1532.8 | 1585.5 | 1573.1 | 1602.6 | 1602.6 |
| 47.5° | 1439.8 | 1514.2 | 1584.0 | 1584.0 | 1627.4 | 1642.9 |
| 50°   | 1390.2 | 1498.7 | 1559.2 | 1580.9 | 1615.0 | 1602.6 |
| 52.5° | 1387.1 | 1472.4 | 1523.5 | 1562.3 | 1577.8 | 1563.8 |
| 55°   | 1391.8 | 1450.7 | 1487.9 | 1531.3 | 1549.9 | 1551.4 |
| 57.5° | 1398.0 | 1438.3 | 1463.1 | 1483.2 | 1539.0 | 1539.0 |
| 60°   | 1413.5 | 1427.4 | 1441.4 | 1452.2 | 1525.1 | 1526.6 |
| 62.5° | 1438.3 | 1416.6 | 1413.5 | 1424.3 | 1517.3 | 1511.1 |
| 65°   | 1477.0 | 1401.1 | 1377.9 | 1388.7 | 1509.6 | 1491.0 |
| 67.5° | 1529.7 | 1377.9 | 1332.9 | 1340.7 | 1503.4 | 1463.1 |
| 70°   | 1577.8 | 1340.7 | 1277.1 | 1269.4 | 1444.5 | 1373.2 |
| 72.5° | 1582.4 | 1297.3 | 1199.6 | 1176.4 | 1255.4 | 1187.2 |
| 75°   | 1504.9 | 1267.8 | 1114.4 | 1046.2 | 1036.9 | 1027.6 |
| 77.5° | 1356.2 | 1250.8 | 1015.2 | 908.2  | 889.6  | 895.8  |
| 80°   | 1134.5 | 1187.2 | 895.8  | 768.7  | 869.5  | 858.6  |
| 82.5° | 847.8  | 1047.7 | 761.0  | 680.4  | 678.9  | 599.8  |
| 85°   | 471.2  | 816.8  | 620.0  | 509.9  | 354.9  | 344.1  |
| 87.5° | 131.7  | 454.1  | 434.0  | 288.3  | 196.8  | 204.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)