

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: P193842

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-SLL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18889 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 258  
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

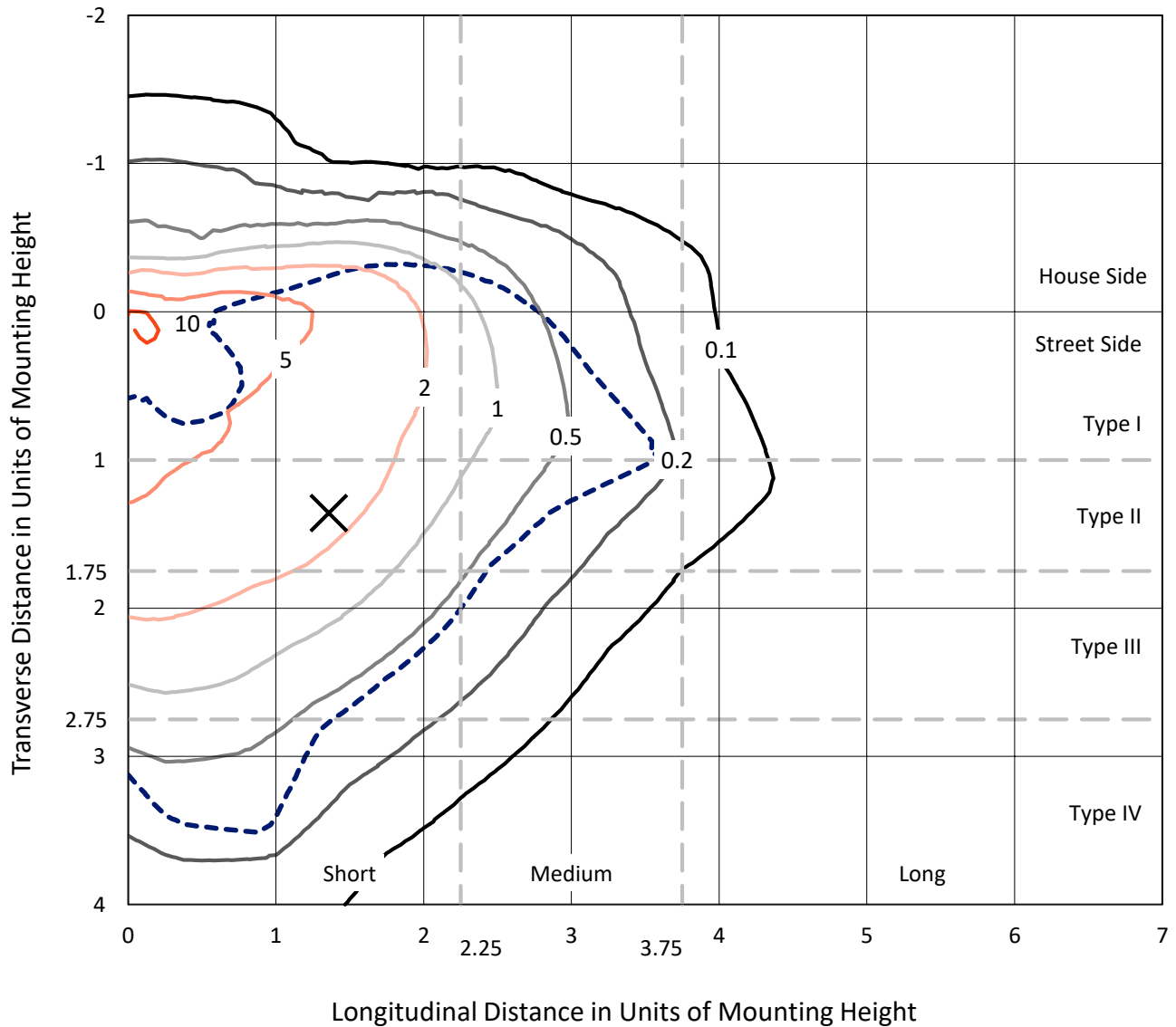


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

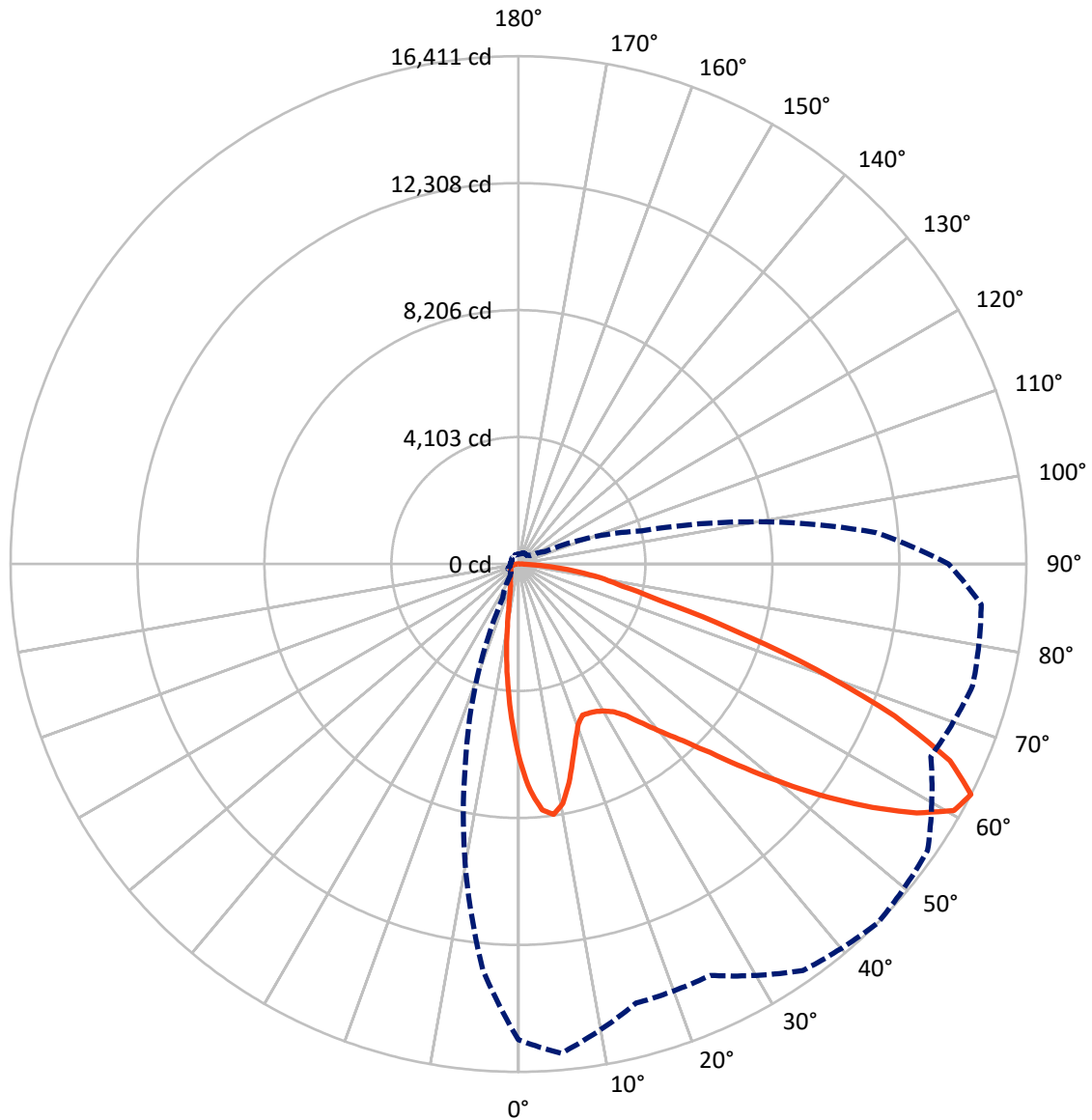


Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3125.9   | 0.0    | 3125.9  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 15763.1  | 0.0    | 15763.1 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 18889.0  | 0.0    | 18889.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 464.6   | 2.5       |
| 10°-20°   | 851.9   | 4.5       |
| 20°-30°   | 1242.0  | 6.6       |
| 30°-40°   | 1912.9  | 10.1      |
| 40°-50°   | 2815.3  | 14.9      |
| 50°-60°   | 4129.5  | 21.9      |
| 60°-70°   | 4616.1  | 24.4      |
| 70°-80°   | 2260.0  | 12.0      |
| 80°-90°   | 596.7   | 3.2       |
| 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°    | 18889.0 | 100.0     |
| 0°-180°   | 18889.0 | 100.0     |



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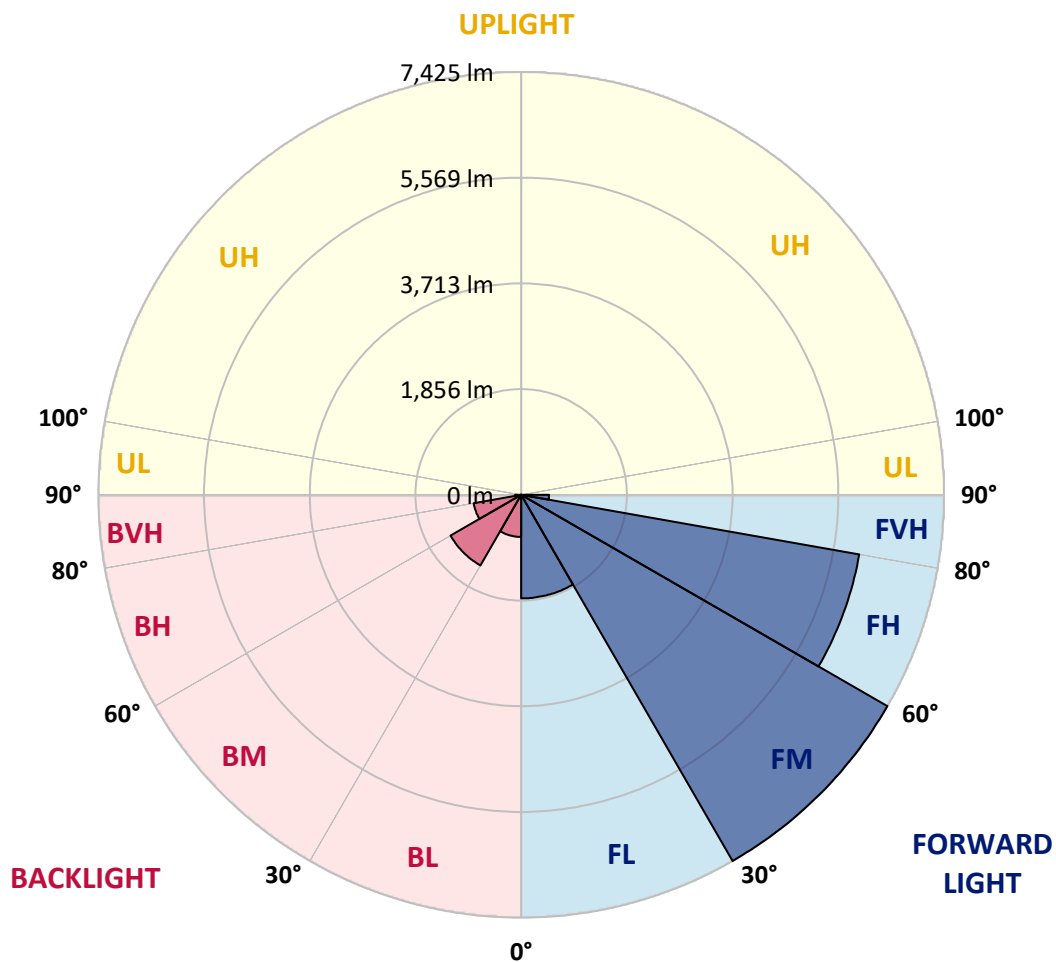
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-8030-1200

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1818.9 | 9.6       |                         |      |         |
| FM (30°-60°)   | 7425.4 | 39.3      |                         |      |         |
| FH (60°-80°)   | 6028.7 | 31.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 490.0  | 2.6       |                         |      | G3/500  |
| BL (0°-30°)    | 739.5  | 3.9       | B2/1000                 |      |         |
| BM (30°-60°)   | 1432.2 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 847.4  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 106.7  | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  | 6381.7  |
| 2.5°  | 6630.9  | 6736.8  | 6943.5  | 7098.2  | 7286.1  | 7329.7  | 7390.0  | 7330.8  | 7225.9  | 7086.8  | 7041.1  |
| 5°    | 6235.3  | 6461.7  | 6963.2  | 7404.5  | 7797.0  | 7979.7  | 8030.6  | 7880.1  | 7575.8  | 7176.1  | 6932.0  |
| 7.5°  | 5600.9  | 5922.8  | 6601.9  | 7251.9  | 7830.2  | 8171.8  | 8163.5  | 7813.6  | 7253.9  | 6602.9  | 6211.4  |
| 10°   | 5053.7  | 5421.2  | 6200.0  | 6926.9  | 7540.5  | 7871.8  | 7744.0  | 7296.5  | 6628.8  | 5879.2  | 5454.5  |
| 12.5° | 4747.4  | 5107.7  | 5897.8  | 6627.8  | 7140.8  | 7255.0  | 7157.4  | 6719.2  | 6089.9  | 5331.9  | 4960.2  |
| 15°   | 4694.4  | 5090.0  | 5777.4  | 6371.3  | 6659.0  | 6559.3  | 6443.0  | 6246.7  | 5802.3  | 5155.4  | 4768.1  |
| 17.5° | 4923.9  | 5360.0  | 5915.5  | 6192.7  | 6143.9  | 5970.5  | 5937.3  | 5959.1  | 5852.2  | 5351.7  | 4905.2  |
| 20°   | 5364.1  | 5887.5  | 6244.7  | 6108.6  | 5752.5  | 5513.7  | 5522.0  | 5855.3  | 6172.0  | 5849.0  | 5339.2  |
| 22.5° | 5982.0  | 6579.0  | 6719.2  | 6153.3  | 5587.4  | 5303.9  | 5372.4  | 5912.4  | 6681.8  | 6575.9  | 5924.8  |
| 25°   | 6781.5  | 7325.6  | 7224.9  | 6315.3  | 5604.0  | 5329.9  | 5384.9  | 6109.7  | 7284.1  | 7302.7  | 6649.6  |
| 27.5° | 7556.1  | 8060.7  | 7649.6  | 6530.2  | 5672.5  | 5391.1  | 5463.8  | 6420.1  | 7859.3  | 8091.9  | 7478.2  |
| 30°   | 8160.4  | 8511.4  | 7817.8  | 6726.5  | 5807.5  | 5510.5  | 5600.9  | 6715.0  | 8121.0  | 8624.6  | 8115.8  |
| 32.5° | 8660.9  | 8913.2  | 8085.7  | 6969.4  | 6055.7  | 5698.5  | 5857.4  | 7073.3  | 8497.9  | 9131.3  | 8739.8  |
| 35°   | 9300.5  | 9372.2  | 8419.0  | 7240.4  | 6438.8  | 6025.6  | 6222.9  | 7424.2  | 8857.2  | 9643.2  | 9354.5  |
| 37.5° | 10050.2 | 9957.8  | 8733.6  | 7611.1  | 6934.1  | 6537.5  | 6700.5  | 7809.5  | 9153.1  | 10223.6 | 9982.7  |
| 40°   | 10791.6 | 10569.4 | 9128.2  | 8186.4  | 7656.8  | 7140.8  | 7333.9  | 8220.6  | 9429.3  | 10805.1 | 10596.4 |
| 42.5° | 11421.9 | 11092.7 | 9517.5  | 8818.7  | 8329.7  | 7806.3  | 8036.9  | 8634.9  | 9693.0  | 11301.4 | 11129.1 |
| 45°   | 11888.1 | 11479.0 | 9888.2  | 9426.2  | 9256.9  | 8691.0  | 8800.0  | 9109.5  | 9978.6  | 11715.7 | 11567.3 |
| 47.5° | 12304.5 | 11867.3 | 10307.7 | 10038.8 | 10067.9 | 9841.5  | 9666.0  | 9661.9  | 10315.0 | 12054.2 | 11981.6 |
| 50°   | 12862.1 | 12406.2 | 10758.4 | 10670.1 | 11284.8 | 11134.3 | 10747.0 | 10306.7 | 10740.7 | 12438.4 | 12430.1 |
| 52.5° | 13630.5 | 13259.8 | 11308.7 | 11350.2 | 12420.8 | 12519.4 | 12039.7 | 11081.3 | 11407.4 | 13143.5 | 13093.6 |
| 55°   | 14539.0 | 14323.1 | 12058.4 | 12132.1 | 13814.3 | 13884.9 | 13408.3 | 12050.1 | 12387.6 | 14164.2 | 14026.1 |
| 57.5° | 15248.2 | 15202.5 | 12880.8 | 13070.8 | 14854.7 | 15172.4 | 14734.2 | 13171.5 | 13492.4 | 15023.9 | 14677.1 |
| 60°   | 15530.7 | 15751.8 | 13756.1 | 14017.8 | 15817.2 | 16169.2 | 15785.1 | 14156.9 | 14471.5 | 15380.1 | 14632.5 |
| 62.5° | 15378.0 | 15872.3 | 14688.6 | 14666.7 | 16032.2 | 16411.2 | 16141.2 | 14705.2 | 15197.3 | 15012.5 | 13892.1 |
| 65°   | 14673.0 | 15439.3 | 15229.5 | 14499.6 | 15297.0 | 15328.2 | 15241.0 | 14460.1 | 15368.7 | 13850.6 | 12461.3 |
| 67.5° | 13137.3 | 14240.0 | 14517.2 | 13066.6 | 13313.8 | 13111.3 | 12964.9 | 13118.6 | 14475.7 | 12109.3 | 10472.8 |
| 70°   | 10700.2 | 12359.5 | 12492.4 | 10451.0 | 10338.9 | 10202.9 | 9911.1  | 10755.3 | 12713.6 | 9924.6  | 8309.9  |
| 72.5° | 7867.6  | 9612.0  | 10020.1 | 7665.1  | 7146.0  | 7174.0  | 6943.5  | 8105.4  | 10336.8 | 7372.3  | 6204.2  |
| 75°   | 5382.8  | 6960.1  | 7839.6  | 5348.6  | 4725.5  | 4737.0  | 4707.9  | 5743.1  | 8233.1  | 5128.4  | 4642.5  |
| 77.5° | 3932.2  | 4972.7  | 5912.4  | 3595.8  | 3490.9  | 3426.6  | 3411.0  | 4018.4  | 6312.2  | 3723.5  | 3605.2  |
| 80°   | 3155.6  | 3673.7  | 3971.7  | 2492.0  | 2680.0  | 2674.8  | 2588.6  | 2763.1  | 4122.3  | 2723.6  | 2696.6  |
| 82.5° | 2188.8  | 2823.3  | 3217.9  | 1953.1  | 1808.8  | 1778.7  | 1799.5  | 2058.0  | 2913.6  | 1861.8  | 1770.4  |
| 85°   | 1154.6  | 1875.3  | 3186.7  | 1730.9  | 1073.7  | 856.6   | 1065.4  | 1685.2  | 2524.2  | 986.4   | 863.9   |
| 87.5° | 147.4   | 542.0   | 2109.9  | 690.5   | 423.6   | 228.4   | 505.7   | 949.1   | 1620.9  | 201.4   | 175.5   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6381.7  | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 |
| 2.5°  | 6923.7  | 6785.6 | 6605.0 | 6437.8 | 6264.4 | 6092.0 | 5866.7 | 5725.5 | 5627.9 | 5609.2 | 5567.7 |
| 5°    | 6755.5  | 6296.6 | 5949.8 | 5649.7 | 5377.6 | 4993.4 | 4780.6 | 4604.1 | 4509.6 | 4500.2 | 4477.4 |
| 7.5°  | 5979.9  | 5346.5 | 4878.2 | 4453.5 | 4068.3 | 3757.8 | 3415.1 | 3255.2 | 3189.8 | 3205.4 | 3221.0 |
| 10°   | 5173.1  | 4464.9 | 3927.1 | 3493.0 | 3153.5 | 2891.8 | 2616.7 | 2430.8 | 2302.0 | 2276.1 | 2270.9 |
| 12.5° | 4583.3  | 3806.6 | 3284.3 | 2978.0 | 2715.3 | 2469.2 | 2177.4 | 1958.3 | 1791.2 | 1734.1 | 1695.6 |
| 15°   | 4334.1  | 3484.7 | 2937.5 | 2607.3 | 2317.6 | 2005.1 | 1734.1 | 1504.6 | 1350.9 | 1301.1 | 1273.0 |
| 17.5° | 4387.0  | 3395.4 | 2698.7 | 2276.1 | 1905.4 | 1579.3 | 1237.7 | 1041.5 | 949.1  | 925.2  | 925.2  |
| 20°   | 4665.3  | 3378.8 | 2501.4 | 1970.8 | 1508.7 | 1130.8 | 850.4  | 738.3  | 708.2  | 705.0  | 713.3  |
| 22.5° | 5055.7  | 3437.0 | 2353.9 | 1706.0 | 1172.3 | 825.5  | 662.5  | 620.9  | 607.4  | 610.6  | 619.9  |
| 25°   | 5637.2  | 3633.2 | 2247.0 | 1470.3 | 920.0  | 676.0  | 590.8  | 565.9  | 559.7  | 568.0  | 579.4  |
| 27.5° | 6326.7  | 3829.4 | 2180.5 | 1292.8 | 776.7  | 617.8  | 561.7  | 535.8  | 539.9  | 550.3  | 560.7  |
| 30°   | 6932.0  | 3990.4 | 2075.7 | 1166.1 | 732.0  | 620.9  | 561.7  | 526.4  | 522.3  | 524.4  | 527.5  |
| 32.5° | 7475.1  | 4099.4 | 1953.1 | 1045.6 | 631.3  | 551.4  | 524.4  | 519.2  | 496.3  | 488.0  | 489.1  |
| 35°   | 7943.4  | 4099.4 | 1879.4 | 975.0  | 565.9  | 489.1  | 445.5  | 419.5  | 408.1  | 409.1  | 420.5  |
| 37.5° | 8395.1  | 4017.4 | 1843.1 | 935.6  | 530.6  | 465.2  | 426.8  | 403.9  | 388.3  | 385.2  | 387.3  |
| 40°   | 8793.8  | 3898.0 | 1801.5 | 918.9  | 503.6  | 450.6  | 414.3  | 395.6  | 379.0  | 373.8  | 374.8  |
| 42.5° | 9113.6  | 3801.4 | 1755.9 | 897.1  | 487.0  | 440.3  | 406.0  | 389.4  | 370.7  | 365.5  | 364.5  |
| 45°   | 9459.4  | 3769.2 | 1695.6 | 853.5  | 495.3  | 441.3  | 403.9  | 386.3  | 367.6  | 361.3  | 359.3  |
| 47.5° | 9915.2  | 3869.9 | 1633.3 | 801.6  | 512.9  | 446.5  | 407.0  | 386.3  | 366.5  | 361.3  | 359.3  |
| 50°   | 10489.4 | 4106.7 | 1554.4 | 725.8  | 495.3  | 461.0  | 406.0  | 383.2  | 366.5  | 361.3  | 357.2  |
| 52.5° | 11226.7 | 4426.5 | 1450.6 | 638.6  | 484.9  | 496.3  | 403.9  | 376.9  | 361.3  | 354.1  | 346.8  |
| 55°   | 12122.8 | 4688.2 | 1327.0 | 566.9  | 461.0  | 487.0  | 400.8  | 369.7  | 353.0  | 342.7  | 336.4  |
| 57.5° | 12779.0 | 4782.7 | 1168.1 | 520.2  | 427.8  | 471.4  | 396.7  | 360.3  | 342.7  | 334.3  | 326.0  |
| 60°   | 12649.2 | 4599.9 | 1034.2 | 491.1  | 408.1  | 425.7  | 393.5  | 352.0  | 333.3  | 327.1  | 319.8  |
| 62.5° | 11609.8 | 4122.3 | 948.0  | 477.6  | 395.6  | 388.3  | 396.7  | 343.7  | 325.0  | 318.8  | 316.7  |
| 65°   | 10051.3 | 3417.2 | 913.8  | 474.5  | 385.2  | 366.5  | 368.6  | 334.3  | 315.7  | 310.5  | 308.4  |
| 67.5° | 8291.3  | 2757.9 | 883.6  | 484.9  | 371.7  | 351.0  | 340.6  | 321.9  | 306.3  | 301.1  | 297.0  |
| 70°   | 6538.5  | 2293.7 | 870.1  | 478.7  | 355.1  | 335.4  | 324.0  | 308.4  | 294.9  | 289.7  | 286.6  |
| 72.5° | 5265.5  | 1937.6 | 862.9  | 472.5  | 333.3  | 314.6  | 304.2  | 290.7  | 276.2  | 274.1  | 271.0  |
| 75°   | 4455.6  | 1523.3 | 790.2  | 452.7  | 308.4  | 289.7  | 282.4  | 270.0  | 255.4  | 255.4  | 253.4  |
| 77.5° | 3437.0  | 1101.7 | 657.3  | 400.8  | 282.4  | 261.7  | 255.4  | 246.1  | 229.5  | 232.6  | 231.6  |
| 80°   | 2538.8  | 718.5  | 514.0  | 332.3  | 250.2  | 230.5  | 227.4  | 218.1  | 200.4  | 204.6  | 204.6  |
| 82.5° | 1739.2  | 471.4  | 369.7  | 272.0  | 213.9  | 195.2  | 195.2  | 185.9  | 166.1  | 168.2  | 174.4  |
| 85°   | 873.3   | 324.0  | 276.2  | 210.8  | 166.1  | 156.8  | 156.8  | 149.5  | 129.8  | 130.8  | 139.1  |
| 87.5° | 265.8   | 195.2  | 182.8  | 150.6  | 119.4  | 117.3  | 112.1  | 107.0  | 94.5   | 93.5   | 98.6   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 |
| 2.5°  | 5504.3 | 5445.1 | 5373.5 | 5215.7 | 5162.7 | 5159.6 | 5207.3 | 5157.5 | 5253.0 | 5212.5 | 5257.2 |
| 5°    | 4439.0 | 4380.8 | 4300.9 | 4099.4 | 3976.9 | 3893.8 | 3854.4 | 3738.1 | 3822.2 | 3760.9 | 3811.8 |
| 7.5°  | 3264.6 | 3278.1 | 3225.1 | 3106.8 | 2839.9 | 2705.9 | 2627.0 | 2556.4 | 2617.7 | 2611.5 | 2709.1 |
| 10°   | 2294.8 | 2331.1 | 2293.7 | 2174.3 | 1958.3 | 1884.6 | 1899.1 | 1927.2 | 2007.1 | 2048.7 | 2199.2 |
| 12.5° | 1652.0 | 1649.9 | 1626.1 | 1519.1 | 1376.9 | 1385.2 | 1444.3 | 1493.2 | 1566.9 | 1610.5 | 1764.2 |
| 15°   | 1233.6 | 1214.9 | 1204.5 | 1117.3 | 1036.3 | 1053.9 | 1083.0 | 1088.2 | 1134.9 | 1160.9 | 1285.5 |
| 17.5° | 932.4  | 941.8  | 953.2  | 890.9  | 829.6  | 818.2  | 795.4  | 767.3  | 780.8  | 786.0  | 848.3  |
| 20°   | 740.3  | 777.7  | 805.8  | 762.2  | 699.9  | 666.6  | 637.5  | 618.9  | 618.9  | 617.8  | 635.5  |
| 22.5° | 646.9  | 673.9  | 704.0  | 673.9  | 617.8  | 588.7  | 572.1  | 557.6  | 555.5  | 555.5  | 572.1  |
| 25°   | 596.0  | 615.7  | 644.8  | 624.1  | 582.5  | 560.7  | 545.1  | 526.4  | 519.2  | 517.1  | 528.5  |
| 27.5° | 571.1  | 579.4  | 593.9  | 575.2  | 539.9  | 529.6  | 525.4  | 508.8  | 499.4  | 494.3  | 505.7  |
| 30°   | 528.5  | 526.4  | 527.5  | 508.8  | 480.8  | 479.7  | 487.0  | 490.1  | 487.0  | 485.9  | 503.6  |
| 32.5° | 489.1  | 484.9  | 483.9  | 467.3  | 441.3  | 435.1  | 441.3  | 447.5  | 454.8  | 465.2  | 485.9  |
| 35°   | 439.2  | 449.6  | 455.8  | 441.3  | 410.1  | 391.5  | 384.2  | 372.8  | 366.5  | 366.5  | 390.4  |
| 37.5° | 399.8  | 423.6  | 433.0  | 419.5  | 385.2  | 359.3  | 346.8  | 344.7  | 345.8  | 349.9  | 372.8  |
| 40°   | 386.3  | 403.9  | 412.2  | 398.7  | 364.5  | 340.6  | 333.3  | 331.2  | 333.3  | 339.5  | 362.4  |
| 42.5° | 378.0  | 390.4  | 389.4  | 372.8  | 344.7  | 328.1  | 324.0  | 321.9  | 324.0  | 330.2  | 355.1  |
| 45°   | 370.7  | 379.0  | 370.7  | 351.0  | 325.0  | 316.7  | 317.7  | 316.7  | 318.8  | 325.0  | 348.9  |
| 47.5° | 364.5  | 367.6  | 357.2  | 337.5  | 310.5  | 308.4  | 312.5  | 315.7  | 317.7  | 322.9  | 347.8  |
| 50°   | 355.1  | 355.1  | 345.8  | 325.0  | 298.0  | 299.0  | 304.2  | 311.5  | 312.5  | 318.8  | 338.5  |
| 52.5° | 343.7  | 342.7  | 336.4  | 316.7  | 287.6  | 290.7  | 290.7  | 299.0  | 301.1  | 308.4  | 329.2  |
| 55°   | 334.3  | 332.3  | 329.2  | 310.5  | 278.3  | 283.5  | 280.4  | 283.5  | 288.7  | 295.9  | 318.8  |
| 57.5° | 326.0  | 321.9  | 321.9  | 305.3  | 271.0  | 273.1  | 265.8  | 270.0  | 276.2  | 282.4  | 306.3  |
| 60°   | 317.7  | 313.6  | 315.7  | 298.0  | 259.6  | 257.5  | 254.4  | 262.7  | 264.8  | 272.0  | 295.9  |
| 62.5° | 308.4  | 305.3  | 306.3  | 289.7  | 251.3  | 246.1  | 246.1  | 253.4  | 254.4  | 264.8  | 287.6  |
| 65°   | 301.1  | 297.0  | 295.9  | 281.4  | 241.9  | 235.7  | 238.8  | 241.9  | 244.0  | 254.4  | 276.2  |
| 67.5° | 293.9  | 285.5  | 285.5  | 274.1  | 231.6  | 225.3  | 231.6  | 230.5  | 233.6  | 243.0  | 260.6  |
| 70°   | 284.5  | 273.1  | 274.1  | 268.9  | 221.2  | 213.9  | 219.1  | 218.1  | 220.1  | 226.4  | 244.0  |
| 72.5° | 270.0  | 260.6  | 262.7  | 260.6  | 210.8  | 200.4  | 202.5  | 202.5  | 202.5  | 207.7  | 226.4  |
| 75°   | 251.3  | 244.0  | 250.2  | 255.4  | 198.3  | 183.8  | 185.9  | 185.9  | 182.8  | 185.9  | 208.7  |
| 77.5° | 228.4  | 224.3  | 245.1  | 237.8  | 183.8  | 166.1  | 166.1  | 164.1  | 157.8  | 162.0  | 186.9  |
| 80°   | 203.5  | 200.4  | 226.4  | 199.4  | 167.2  | 144.3  | 142.3  | 137.1  | 130.8  | 133.9  | 158.9  |
| 82.5° | 177.6  | 174.4  | 190.0  | 152.6  | 144.3  | 119.4  | 114.2  | 104.9  | 98.6   | 101.8  | 124.6  |
| 85°   | 145.4  | 145.4  | 146.4  | 115.3  | 110.1  | 91.4   | 85.1   | 72.7   | 65.4   | 67.5   | 89.3   |
| 87.5° | 103.8  | 107.0  | 98.6   | 78.9   | 65.4   | 50.9   | 46.7   | 39.5   | 33.2   | 38.4   | 46.7   |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7 | 6381.7  | 6381.7  |
| 2.5°  | 5485.6 | 5599.8 | 5729.6 | 5895.8 | 6038.0 | 6271.7 | 6495.9  | 6630.9  |
| 5°    | 4101.5 | 4291.5 | 4528.3 | 4832.5 | 5116.0 | 5541.7 | 5964.3  | 6235.3  |
| 7.5°  | 2935.4 | 3138.9 | 3394.4 | 3774.4 | 4175.2 | 4718.3 | 5276.9  | 5600.9  |
| 10°   | 2428.7 | 2637.4 | 2852.4 | 3108.8 | 3437.0 | 4027.8 | 4688.2  | 5053.7  |
| 12.5° | 2009.2 | 2232.5 | 2464.0 | 2734.0 | 3038.2 | 3565.7 | 4326.8  | 4747.4  |
| 15°   | 1537.8 | 1787.0 | 2060.1 | 2401.7 | 2782.8 | 3392.3 | 4237.5  | 4694.4  |
| 17.5° | 1053.9 | 1332.2 | 1667.6 | 2089.2 | 2555.4 | 3336.2 | 4397.4  | 4923.9  |
| 20°   | 725.8  | 928.3  | 1286.5 | 1780.8 | 2341.5 | 3329.0 | 4704.8  | 5364.1  |
| 22.5° | 607.4  | 697.8  | 959.4  | 1497.3 | 2180.5 | 3418.3 | 5181.4  | 5982.0  |
| 25°   | 561.7  | 615.7  | 766.3  | 1251.2 | 2063.2 | 3623.9 | 5837.6  | 6781.5  |
| 27.5° | 534.8  | 583.6  | 695.7  | 1090.3 | 1970.8 | 3862.7 | 6476.2  | 7556.1  |
| 30°   | 545.1  | 595.0  | 676.0  | 1008.2 | 1845.2 | 4062.0 | 7043.2  | 8160.4  |
| 32.5° | 491.1  | 512.9  | 579.4  | 935.6  | 1754.8 | 4229.2 | 7539.5  | 8660.9  |
| 35°   | 418.5  | 456.9  | 517.1  | 901.3  | 1756.9 | 4341.4 | 8080.5  | 9300.5  |
| 37.5° | 398.7  | 437.1  | 480.8  | 888.8  | 1780.8 | 4460.8 | 8701.4  | 10050.2 |
| 40°   | 386.3  | 421.6  | 459.0  | 881.6  | 1803.6 | 4569.8 | 9309.9  | 10791.6 |
| 42.5° | 378.0  | 410.1  | 456.9  | 856.6  | 1815.0 | 4667.4 | 9810.4  | 11421.9 |
| 45°   | 376.9  | 410.1  | 465.2  | 831.7  | 1832.7 | 4772.3 | 10229.9 | 11888.1 |
| 47.5° | 378.0  | 423.6  | 449.6  | 801.6  | 1832.7 | 4947.8 | 10722.0 | 12304.5 |
| 50°   | 373.8  | 446.5  | 433.0  | 759.0  | 1790.1 | 5280.0 | 11397.0 | 12862.1 |
| 52.5° | 371.7  | 443.4  | 400.8  | 693.6  | 1716.4 | 5807.5 | 12261.9 | 13630.5 |
| 55°   | 366.5  | 427.8  | 378.0  | 596.0  | 1630.2 | 6382.8 | 13188.1 | 14539.0 |
| 57.5° | 361.3  | 379.0  | 365.5  | 510.9  | 1497.3 | 6787.7 | 13825.7 | 15248.2 |
| 60°   | 405.0  | 331.2  | 355.1  | 469.3  | 1319.7 | 6898.8 | 13800.8 | 15530.7 |
| 62.5° | 374.8  | 310.5  | 341.6  | 460.0  | 1195.1 | 6587.3 | 13163.2 | 15378.0 |
| 65°   | 293.9  | 297.0  | 328.1  | 487.0  | 1161.9 | 5761.8 | 12033.5 | 14673.0 |
| 67.5° | 268.9  | 283.5  | 314.6  | 521.3  | 1165.0 | 4613.4 | 10345.1 | 13137.3 |
| 70°   | 253.4  | 268.9  | 299.0  | 538.9  | 1173.3 | 3439.0 | 8179.1  | 10700.2 |
| 72.5° | 235.7  | 249.2  | 281.4  | 542.0  | 1119.3 | 2498.3 | 6303.8  | 7867.6  |
| 75°   | 214.9  | 227.4  | 256.5  | 472.5  | 927.2  | 1733.0 | 4822.1  | 5382.8  |
| 77.5° | 191.1  | 200.4  | 225.3  | 364.5  | 688.4  | 1109.0 | 3619.7  | 3932.2  |
| 80°   | 163.0  | 168.2  | 189.0  | 266.9  | 471.4  | 693.6  | 2863.8  | 3155.6  |
| 82.5° | 130.8  | 132.9  | 146.4  | 200.4  | 306.3  | 445.5  | 1917.8  | 2188.8  |
| 85°   | 92.4   | 92.4   | 100.7  | 145.4  | 208.7  | 282.4  | 1041.5  | 1154.6  |
| 87.5° | 43.6   | 44.6   | 44.6   | 80.0   | 109.0  | 143.3  | 239.9   | 147.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END OF REPORT)