

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: P269756

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-T4FT-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 56490.1 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 640  
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

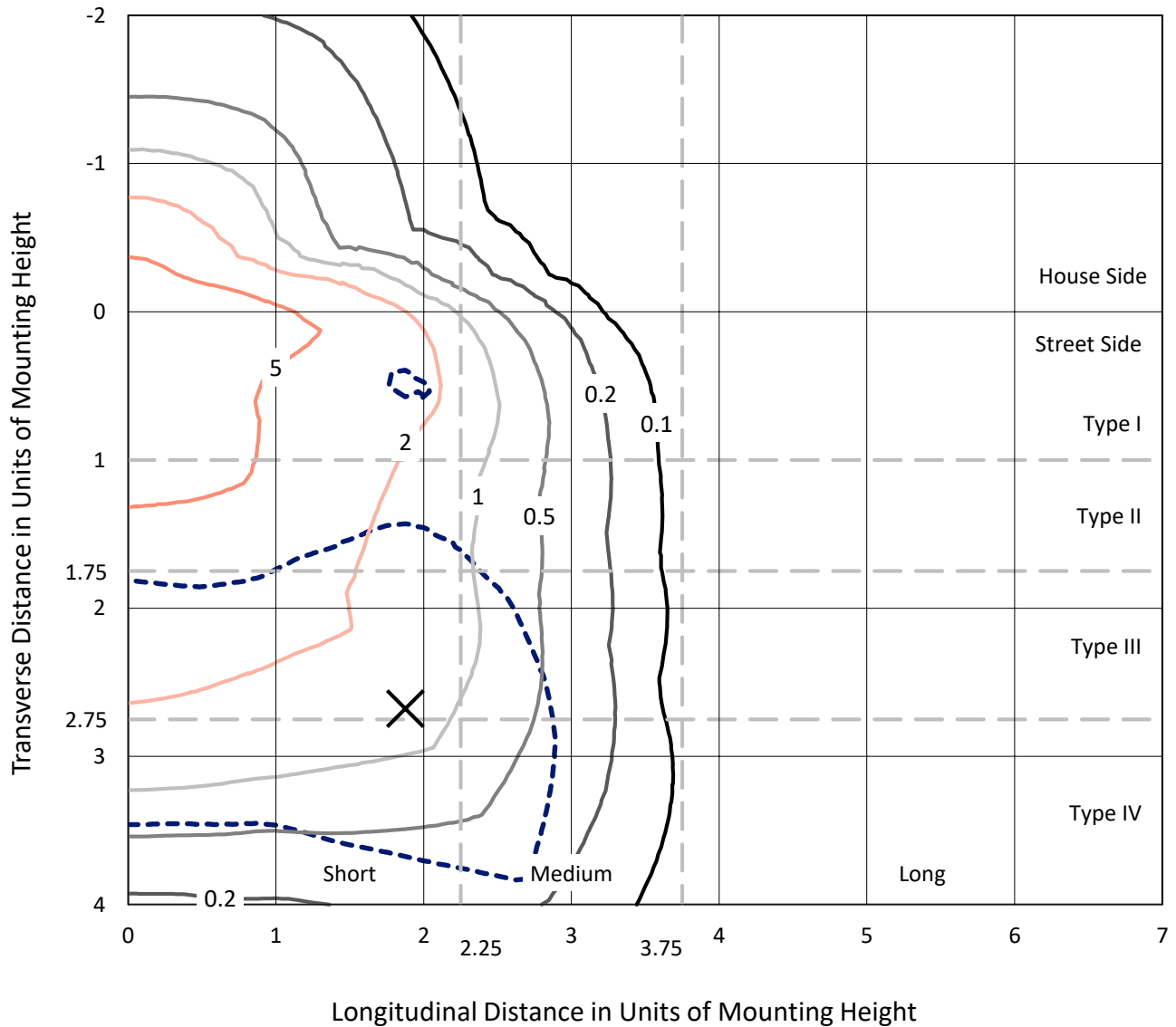


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

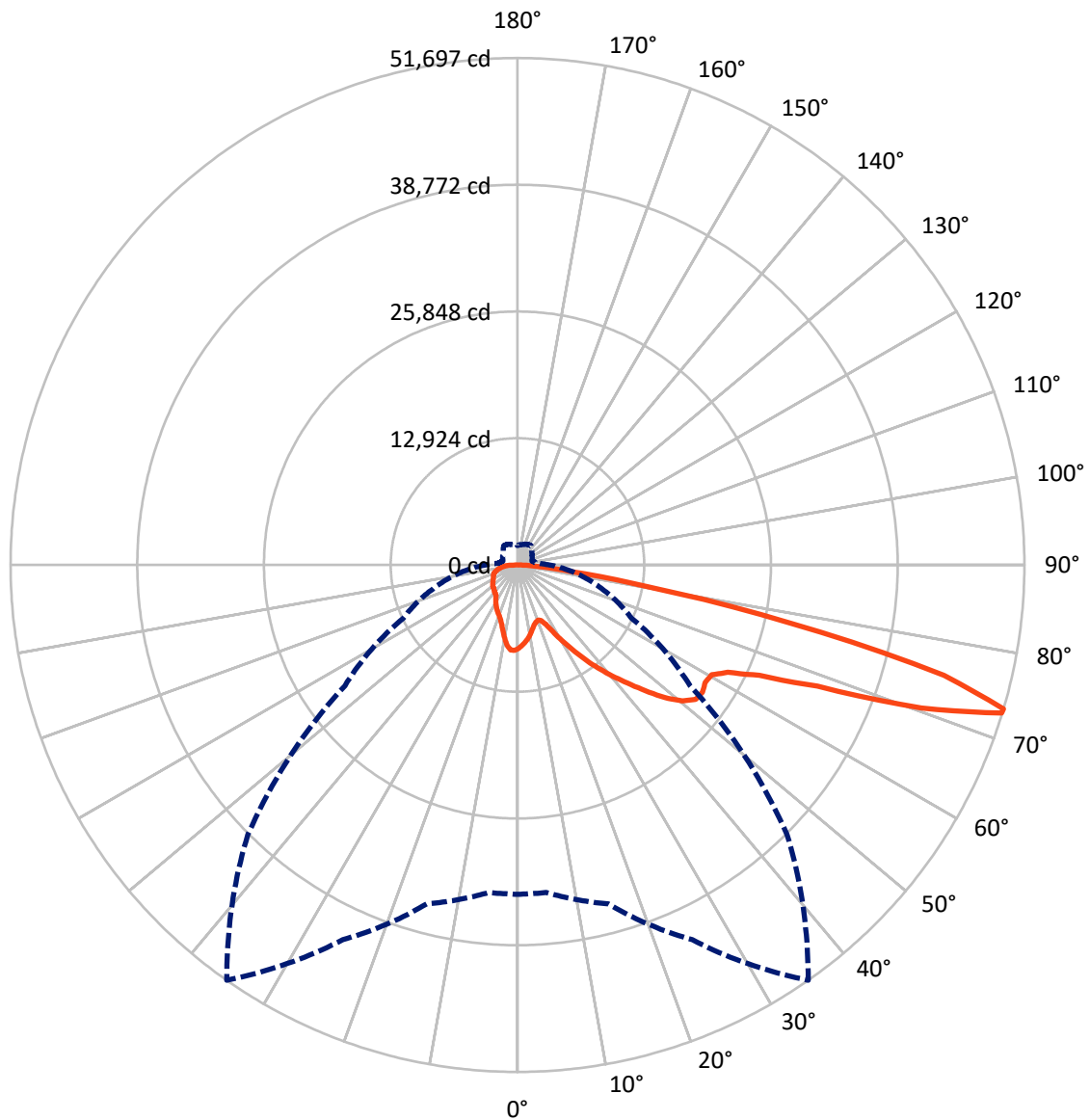


Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10774.2  | 0.0    | 10774.2 |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 45715.9  | 0.0    | 45715.9 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 56490.1  | 0.0    | 56490.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 771.9   | 1.4       |
| 10°-20°   | 1926.4  | 3.4       |
| 20°-30°   | 3114.4  | 5.5       |
| 30°-40°   | 5222.4  | 9.2       |
| 40°-50°   | 8050.0  | 14.3      |
| 50°-60°   | 10800.0 | 19.1      |
| 60°-70°   | 14387.8 | 25.5      |
| 70°-80°   | 10973.5 | 19.4      |
| 80°-90°   | 1243.8  | 2.2       |
| 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°    | 56490.1 | 100.0     |
| 0°-180°   | 56490.1 | 100.0     |



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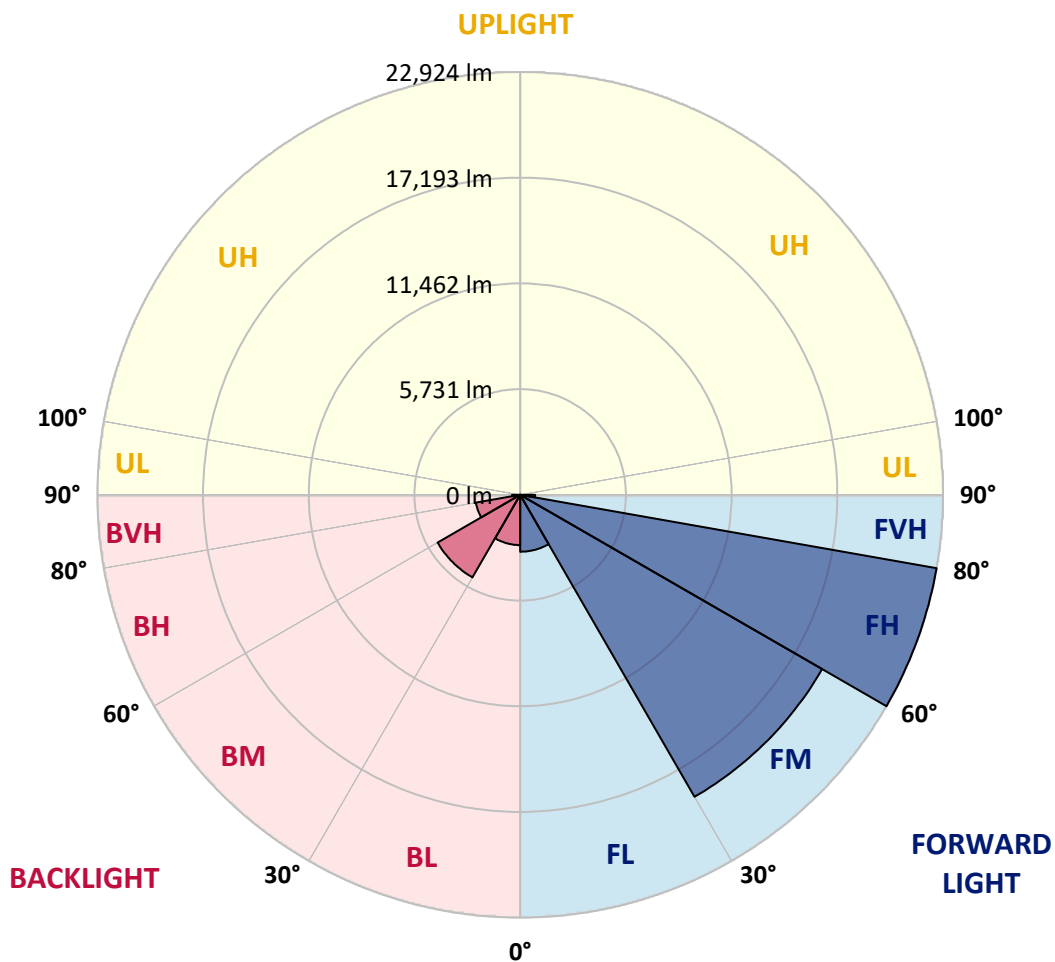
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3086.3  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 18902.0 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 22923.7 | 40.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 804.0   | 1.4       |                         |      | G5      |
| BL   | (0°-30°)    | 2726.4  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5170.4  | 9.2       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2437.6  | 4.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 439.8   | 0.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  | 8526.2  |
| 2.5°  | 8189.8  | 8205.9  | 8187.1  | 8211.4  | 8252.1  | 8295.6  | 8325.4  | 8368.8  | 8417.6  | 8485.4  | 8501.6  |
| 5°    | 7804.6  | 7829.0  | 7829.0  | 7872.3  | 7951.0  | 8021.5  | 8086.6  | 8157.1  | 8260.3  | 8377.0  | 8423.0  |
| 7.5°  | 7381.4  | 7394.8  | 7419.3  | 7484.4  | 7598.4  | 7698.7  | 7791.0  | 7904.9  | 8045.9  | 8200.5  | 8282.0  |
| 10°   | 6871.3  | 6890.3  | 6928.3  | 7020.6  | 7175.2  | 7313.6  | 7446.4  | 7603.9  | 7782.8  | 7975.4  | 8078.5  |
| 12.5° | 6510.6  | 6505.2  | 6521.4  | 6589.2  | 6724.8  | 6893.1  | 7085.7  | 7286.4  | 7506.1  | 7731.4  | 7856.0  |
| 15°   | 6388.4  | 6358.7  | 6296.2  | 6280.1  | 6353.3  | 6521.4  | 6743.8  | 6990.7  | 7253.9  | 7525.1  | 7679.7  |
| 17.5° | 6464.5  | 6412.9  | 6242.1  | 6117.2  | 6106.4  | 6233.9  | 6469.9  | 6746.6  | 7050.3  | 7381.4  | 7574.0  |
| 20°   | 6941.9  | 6819.8  | 6399.3  | 6109.1  | 6008.8  | 6071.0  | 6277.3  | 6570.3  | 6928.3  | 7367.8  | 7614.7  |
| 22.5° | 8083.9  | 7904.9  | 7012.3  | 6472.6  | 6133.4  | 6057.5  | 6212.1  | 6524.1  | 6941.9  | 7536.1  | 7850.6  |
| 25°   | 9746.9  | 9491.9  | 8065.0  | 7378.7  | 6678.8  | 6274.5  | 6309.9  | 6629.9  | 7134.5  | 7926.6  | 8306.4  |
| 27.5° | 11059.8 | 10894.4 | 9440.3  | 8656.3  | 7671.6  | 6860.4  | 6627.2  | 6895.7  | 7527.8  | 8566.7  | 8954.8  |
| 30°   | 11841.1 | 11740.7 | 10910.6 | 10104.9 | 8938.5  | 7793.6  | 7234.9  | 7394.8  | 8143.7  | 9453.9  | 9774.0  |
| 32.5° | 12747.0 | 12687.4 | 12280.5 | 11539.9 | 10305.6 | 9019.8  | 8197.9  | 8140.9  | 8968.3  | 10520.1 | 10666.5 |
| 35°   | 13685.8 | 13666.8 | 13428.0 | 12896.3 | 11773.2 | 10636.7 | 9475.6  | 9090.4  | 9866.3  | 11626.8 | 11534.5 |
| 37.5° | 14559.2 | 14526.8 | 14388.3 | 14079.0 | 13308.7 | 12372.7 | 10777.7 | 10064.3 | 10834.6 | 12684.7 | 12275.1 |
| 40°   | 16167.9 | 15912.8 | 15438.1 | 15204.8 | 14860.3 | 13834.9 | 11811.3 | 10972.9 | 11838.4 | 13693.9 | 12915.3 |
| 42.5° | 18129.2 | 17714.1 | 16829.7 | 16509.7 | 16460.8 | 14987.9 | 12516.5 | 11854.7 | 12850.3 | 14694.8 | 13544.6 |
| 45°   | 19672.7 | 19282.1 | 18519.8 | 18115.6 | 18294.7 | 16032.2 | 13224.6 | 12795.9 | 13891.8 | 15744.8 | 14193.0 |
| 47.5° | 21319.4 | 20706.3 | 19697.1 | 19819.2 | 20209.9 | 17019.6 | 13946.1 | 13807.8 | 15033.9 | 16919.2 | 14998.7 |
| 50°   | 21379.0 | 20909.8 | 20467.5 | 21197.2 | 21805.0 | 17928.5 | 14849.5 | 14868.4 | 16431.0 | 18397.7 | 16070.1 |
| 52.5° | 20139.3 | 20038.9 | 20741.5 | 21889.0 | 22765.2 | 18647.3 | 15877.6 | 15964.4 | 18218.7 | 20096.0 | 17247.5 |
| 55°   | 19705.3 | 19591.3 | 20402.5 | 21647.6 | 22895.6 | 19241.4 | 16992.6 | 17149.9 | 20380.7 | 21886.3 | 18395.0 |
| 57.5° | 20763.2 | 20511.0 | 20565.2 | 21533.7 | 22578.1 | 19892.4 | 18207.8 | 18525.2 | 22730.1 | 23451.6 | 19132.9 |
| 60°   | 23720.1 | 23180.4 | 22154.9 | 22130.5 | 22748.9 | 20869.1 | 19613.1 | 20001.0 | 25171.4 | 24200.2 | 18845.4 |
| 62.5° | 27867.8 | 27328.1 | 25407.4 | 24157.0 | 24064.7 | 22480.4 | 21338.3 | 21441.5 | 26582.0 | 23185.8 | 17090.3 |
| 65°   | 32357.5 | 31874.6 | 29728.9 | 27962.8 | 27111.0 | 25149.8 | 23343.0 | 22084.3 | 26120.8 | 20394.3 | 14019.4 |
| 67.5° | 37807.3 | 37289.3 | 35444.6 | 33814.2 | 32994.9 | 29457.6 | 24751.0 | 21468.6 | 23193.9 | 15798.9 | 10077.7 |
| 70°   | 41618.7 | 41089.7 | 40362.7 | 41683.8 | 43688.6 | 35672.5 | 24932.7 | 18964.7 | 17323.5 | 10500.9 | 6065.6  |
| 72.5° | 36646.3 | 36399.4 | 37725.9 | 43289.9 | 51639.5 | 39443.0 | 22537.3 | 13807.8 | 10061.6 | 5574.6  | 3510.2  |
| 73°   | 33575.5 | 33521.2 | 35783.7 | 42163.9 | 51696.5 | 38862.7 | 21487.5 | 12833.9 | 8629.2  | 4931.8  | 3209.1  |
| 75°   | 15161.5 | 15598.2 | 20557.2 | 32205.6 | 44914.7 | 32023.8 | 15123.4 | 7362.4  | 4874.8  | 3407.2  | 2422.5  |
| 77.5° | 3643.2  | 3795.1  | 6431.9  | 15294.5 | 28364.3 | 19084.0 | 6852.5  | 3640.6  | 3116.8  | 2406.2  | 1768.8  |
| 80°   | 1551.7  | 1603.2  | 2476.7  | 5650.6  | 13354.8 | 7685.2  | 3157.6  | 2438.8  | 2156.7  | 1679.2  | 1239.8  |
| 82.5° | 862.6   | 916.9   | 1405.2  | 2563.6  | 5390.2  | 2620.4  | 1926.1  | 1698.2  | 1418.8  | 1011.9  | 805.7   |
| 85°   | 488.3   | 518.1   | 821.9   | 1432.3  | 2284.1  | 1052.5  | 1153.0  | 1128.5  | 800.3   | 520.8   | 396.1   |
| 87.5° | 230.5   | 249.5   | 396.1   | 664.7   | 895.3   | 412.3   | 586.0   | 645.6   | 501.9   | 317.5   | 206.3   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8526.2  | 8526.2 | 8526.2 | 8526.2 | 8526.2 | 8526.2 | 8526.2 | 8526.2 | 8526.2 | 8526.2 |
| 2.5°  | 8520.8  | 8569.6 | 8626.6 | 8656.3 | 8683.5 | 8716.1 | 8748.6 | 8748.6 | 8754.1 | 8756.7 |
| 5°    | 8461.0  | 8561.3 | 8650.9 | 8688.9 | 8697.0 | 8697.0 | 8688.9 | 8645.5 | 8607.5 | 8623.8 |
| 7.5°  | 8336.2  | 8482.8 | 8558.7 | 8545.0 | 8442.0 | 8322.6 | 8222.2 | 8100.2 | 8037.9 | 8027.0 |
| 10°   | 8157.1  | 8325.4 | 8339.0 | 8203.3 | 7948.4 | 7693.4 | 7481.8 | 7275.6 | 7177.8 | 7153.5 |
| 12.5° | 7959.2  | 8113.9 | 8027.0 | 7747.5 | 7338.0 | 6966.3 | 6697.8 | 6488.8 | 6396.7 | 6372.1 |
| 15°   | 7799.2  | 7904.9 | 7685.2 | 7245.6 | 6730.3 | 6337.0 | 6114.6 | 5959.9 | 5894.8 | 5875.8 |
| 17.5° | 7715.1  | 7736.7 | 7335.2 | 6741.2 | 6193.2 | 5864.9 | 5726.5 | 5653.4 | 5628.9 | 5615.3 |
| 20°   | 7755.6  | 7603.9 | 7001.6 | 6271.8 | 5753.7 | 5523.0 | 5490.6 | 5471.5 | 5466.1 | 5458.0 |
| 22.5° | 7959.2  | 7563.1 | 6695.0 | 5826.9 | 5368.5 | 5268.1 | 5295.2 | 5292.5 | 5287.2 | 5281.7 |
| 25°   | 8322.6  | 7598.4 | 6396.7 | 5403.8 | 5045.7 | 5024.0 | 5072.8 | 5072.8 | 5051.1 | 5051.1 |
| 27.5° | 8802.9  | 7671.6 | 6063.0 | 5002.3 | 4752.8 | 4755.4 | 4793.4 | 4782.5 | 4758.1 | 4741.9 |
| 30°   | 9388.7  | 7717.7 | 5672.3 | 4641.5 | 4478.7 | 4467.9 | 4478.7 | 4432.5 | 4359.4 | 4353.9 |
| 32.5° | 9988.3  | 7660.7 | 5219.3 | 4321.3 | 4188.4 | 4164.1 | 4155.9 | 4090.8 | 4006.7 | 3982.2 |
| 35°   | 10530.8 | 7451.9 | 4758.1 | 4066.4 | 3911.8 | 3857.5 | 3895.5 | 3873.9 | 3797.9 | 3778.8 |
| 37.5° | 10927.0 | 7063.9 | 4343.0 | 3841.2 | 3713.8 | 3700.2 | 3724.6 | 3732.6 | 3643.2 | 3624.2 |
| 40°   | 11192.7 | 6537.7 | 3987.8 | 3651.3 | 3675.8 | 3624.2 | 3542.8 | 3485.9 | 3458.7 | 3450.6 |
| 42.5° | 11407.0 | 5989.7 | 3689.2 | 3561.8 | 3683.9 | 3534.7 | 3358.4 | 3266.1 | 3314.9 | 3336.7 |
| 45°   | 11653.9 | 5455.2 | 3439.7 | 3450.6 | 3643.2 | 3431.6 | 3230.8 | 3141.4 | 3160.3 | 3165.7 |
| 47.5° | 11993.0 | 4804.2 | 3171.1 | 3271.5 | 3507.5 | 3361.1 | 3152.2 | 3024.8 | 2935.2 | 2894.5 |
| 50°   | 12462.2 | 4033.7 | 2891.7 | 3070.9 | 3374.7 | 3309.5 | 3030.2 | 2894.5 | 2729.1 | 2691.1 |
| 52.5° | 12787.8 | 3314.9 | 2661.1 | 2902.7 | 3255.3 | 3206.4 | 2932.4 | 2756.1 | 2582.4 | 2550.0 |
| 55°   | 12611.5 | 2753.5 | 2460.5 | 2715.4 | 3098.0 | 3078.9 | 2851.1 | 2615.1 | 2479.4 | 2452.4 |
| 57.5° | 11729.9 | 2398.0 | 2305.8 | 2539.1 | 2905.4 | 2970.4 | 2742.5 | 2495.8 | 2398.0 | 2379.2 |
| 60°   | 10047.9 | 2175.7 | 2208.2 | 2419.8 | 2747.9 | 2861.9 | 2634.1 | 2430.6 | 2365.4 | 2351.9 |
| 62.5° | 7796.4  | 2026.3 | 2134.9 | 2333.0 | 2625.9 | 2786.0 | 2574.5 | 2422.5 | 2398.0 | 2381.8 |
| 65°   | 5585.5  | 1907.0 | 2056.2 | 2246.1 | 2514.7 | 2715.4 | 2552.7 | 2411.6 | 2417.0 | 2403.4 |
| 67.5° | 3795.1  | 1801.2 | 1961.3 | 2148.4 | 2406.2 | 2653.1 | 2522.8 | 2373.6 | 2441.5 | 2425.2 |
| 70°   | 2655.7  | 1698.2 | 1850.1 | 2023.7 | 2270.6 | 2566.3 | 2468.6 | 2316.6 | 2311.2 | 2246.1 |
| 72.5° | 2072.5  | 1562.5 | 1698.2 | 1850.1 | 2097.0 | 2444.2 | 2360.0 | 2189.2 | 2099.7 | 2031.8 |
| 73°   | 1977.6  | 1530.0 | 1660.2 | 1812.2 | 2058.9 | 2414.4 | 2330.3 | 2153.9 | 2053.5 | 1991.2 |
| 75°   | 1635.8  | 1388.9 | 1508.3 | 1643.9 | 1896.2 | 2273.3 | 2183.8 | 1993.9 | 1866.4 | 1828.4 |
| 77.5° | 1285.8  | 1188.2 | 1302.2 | 1424.3 | 1671.0 | 2067.1 | 1966.7 | 1785.0 | 1714.4 | 1681.8 |
| 80°   | 952.2   | 984.7  | 1085.2 | 1193.6 | 1448.5 | 1847.4 | 1757.9 | 1576.0 | 1890.8 | 1812.2 |
| 82.5° | 670.0   | 746.0  | 838.3  | 935.9  | 1215.2 | 1633.1 | 1524.6 | 1337.3 | 1383.5 | 1150.2 |
| 85°   | 396.1   | 488.3  | 575.2  | 659.1  | 876.1  | 1353.7 | 1258.7 | 1066.1 | 873.5  | 832.8  |
| 87.5° | 230.5   | 271.3  | 295.7  | 382.5  | 602.3  | 1019.9 | 887.0  | 789.4  | 453.0  | 306.5  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)