

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: P383461

Luminaire Tested: **GLEON-SA7C-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47651.5 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

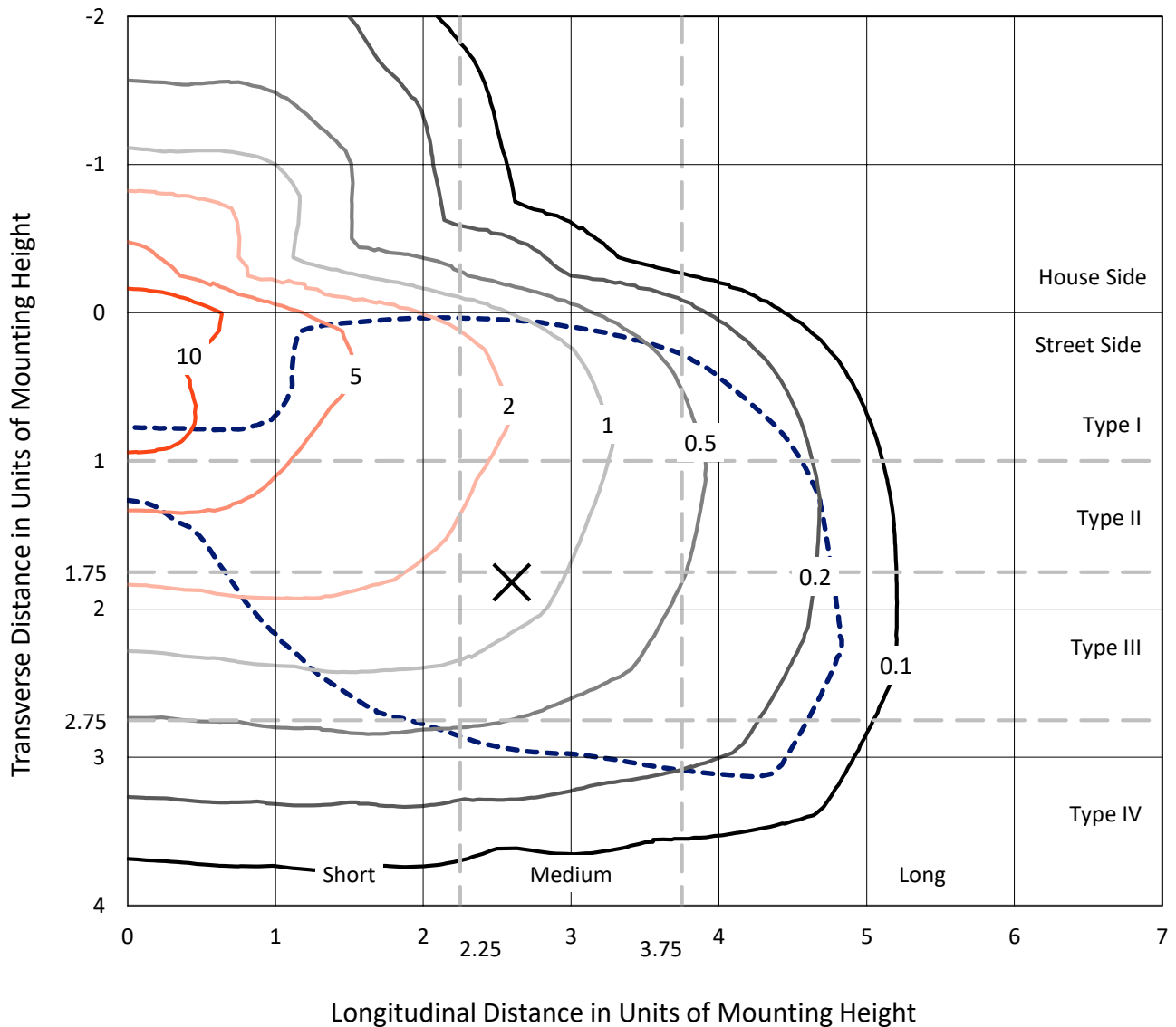
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

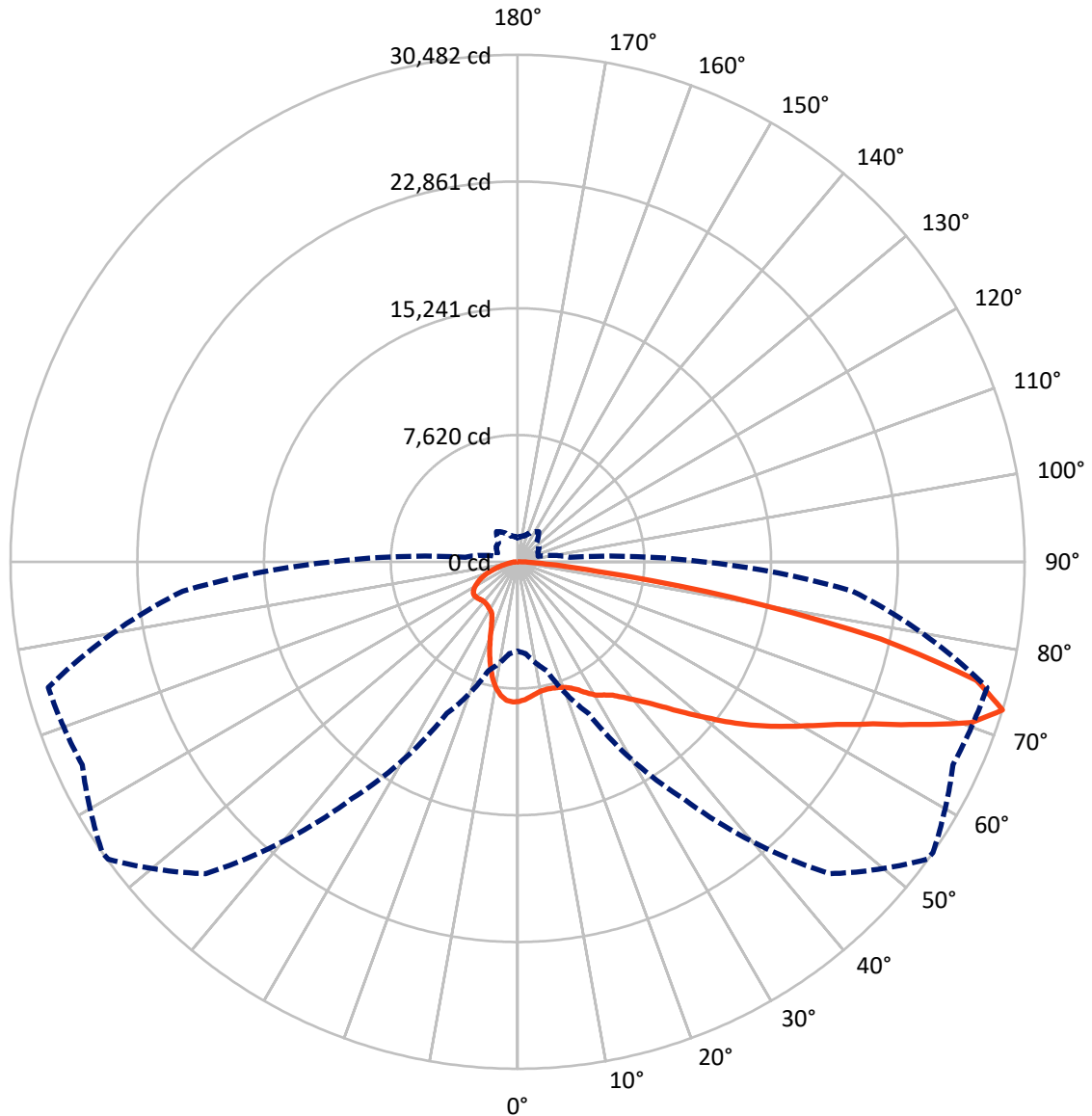
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8856.9   | 0.0    | 8856.9  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 38794.6  | 0.0    | 38794.6 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 47651.5  | 0.0    | 47651.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 760.5   | 1.6       |
| 10°-20°   | 2024.8  | 4.2       |
| 20°-30°   | 3338.4  | 7.0       |
| 30°-40°   | 4938.3  | 10.4      |
| 40°-50°   | 6892.9  | 14.5      |
| 50°-60°   | 8974.7  | 18.8      |
| 60°-70°   | 11029.7 | 23.1      |
| 70°-80°   | 8645.9  | 18.1      |
| 80°-90°   | 1046.3  | 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°    | 47651.5 | 100.0     |
| 0°-180°   | 47651.5 | 100.0     |

**Coefficient of Utilization**

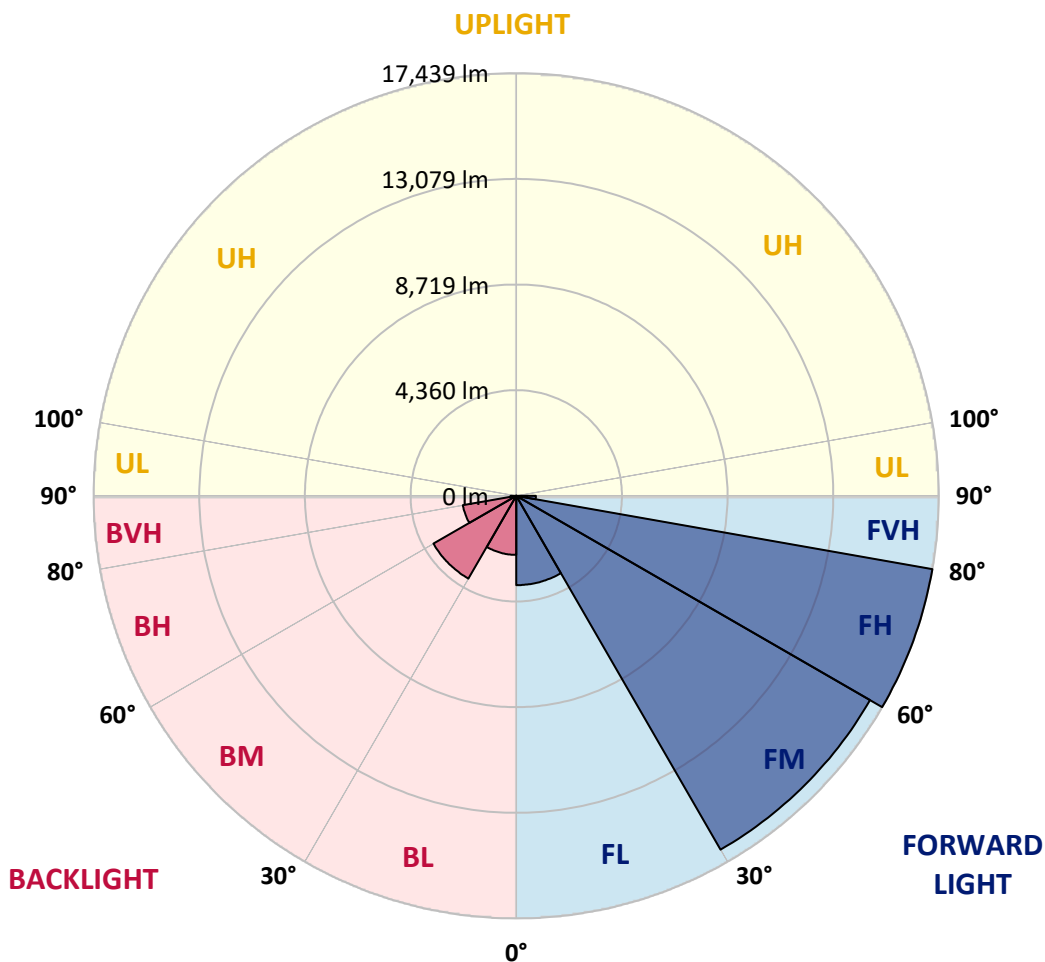


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3686.8  | 7.7       |                         |      |         |
| FM (30°-60°)   | 16860.0 | 35.4      |                         |      |         |
| FH (60°-80°)   | 17438.8 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 808.9   | 1.7       |                         |      | G5      |
| BL (0°-30°)    | 2436.9  | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 3945.9  | 8.3       | B3/5000                 |      |         |
| BH (60°-80°)   | 2236.8  | 4.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 237.3   | 0.5       |                         |      | 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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  | 8404.7  |
| 2.5°  | 8131.1  | 8111.7  | 8136.0  | 8169.7  | 8206.7  | 8256.6  | 8285.6  | 8298.5  | 8348.3  | 8367.7  | 8409.5  |
| 5°    | 7754.5  | 7744.8  | 7785.0  | 7843.0  | 7925.0  | 8040.9  | 8134.3  | 8152.0  | 8284.0  | 8377.3  | 8462.6  |
| 7.5°  | 7480.9  | 7480.9  | 7527.6  | 7596.8  | 7688.4  | 7844.6  | 7976.6  | 8000.7  | 8224.4  | 8425.6  | 8583.4  |
| 10°   | 7263.6  | 7271.7  | 7326.3  | 7408.4  | 7516.3  | 7682.0  | 7857.5  | 7884.8  | 8208.3  | 8538.3  | 8789.3  |
| 12.5° | 7118.7  | 7138.1  | 7187.9  | 7262.0  | 7395.6  | 7596.8  | 7818.9  | 7855.8  | 8242.1  | 8699.3  | 9037.2  |
| 15°   | 7210.5  | 7242.7  | 7247.4  | 7278.1  | 7352.1  | 7571.0  | 7841.4  | 7880.0  | 8314.5  | 8863.4  | 9318.8  |
| 17.5° | 7612.8  | 7624.1  | 7574.2  | 7509.9  | 7474.5  | 7614.5  | 7908.9  | 7949.2  | 8401.4  | 9026.0  | 9589.3  |
| 20°   | 8224.4  | 8218.0  | 8110.1  | 7936.3  | 7756.1  | 7778.6  | 8020.1  | 8061.9  | 8519.0  | 9169.2  | 9859.7  |
| 22.5° | 8997.0  | 8974.4  | 8808.7  | 8488.4  | 8180.9  | 8052.2  | 8214.8  | 8250.2  | 8696.0  | 9373.6  | 10149.4 |
| 25°   | 9933.7  | 9883.8  | 9664.9  | 9235.2  | 8782.9  | 8451.4  | 8507.7  | 8541.5  | 8953.5  | 9602.1  | 10414.9 |
| 27.5° | 10921.9 | 10872.0 | 10593.6 | 10073.8 | 9471.8  | 8955.2  | 8911.7  | 8940.6  | 9246.4  | 9771.1  | 10611.3 |
| 30°   | 11955.2 | 11902.1 | 11647.8 | 11065.2 | 10202.5 | 9476.6  | 9288.3  | 9299.5  | 9452.5  | 9862.9  | 10772.2 |
| 32.5° | 12993.3 | 12943.4 | 12658.5 | 11982.6 | 10996.0 | 10036.7 | 9560.3  | 9545.8  | 9576.4  | 9957.9  | 10954.1 |
| 35°   | 14045.9 | 14065.3 | 13732.0 | 12983.6 | 11874.7 | 10659.6 | 9882.2  | 9851.6  | 9784.0  | 10152.6 | 11211.6 |
| 37.5° | 15172.6 | 15159.6 | 14728.3 | 13946.1 | 12793.8 | 11335.5 | 10344.1 | 10339.2 | 10105.9 | 10521.2 | 11615.6 |
| 40°   | 15925.7 | 15933.8 | 15671.5 | 14931.1 | 13722.4 | 12083.9 | 10936.4 | 10925.1 | 10619.4 | 11073.2 | 12145.1 |
| 42.5° | 16220.3 | 16273.4 | 16341.0 | 15871.1 | 14694.5 | 12951.5 | 11642.9 | 11626.8 | 11335.5 | 11865.0 | 12768.0 |
| 45°   | 16241.3 | 16347.4 | 16765.9 | 16706.4 | 15679.5 | 13944.5 | 12545.9 | 12500.8 | 12291.6 | 12917.7 | 13511.5 |
| 47.5° | 16061.0 | 16170.5 | 16865.7 | 17203.7 | 16559.9 | 14992.3 | 13601.7 | 13566.3 | 13386.1 | 14234.2 | 14316.3 |
| 50°   | 15666.7 | 15771.3 | 16659.7 | 17446.8 | 17284.2 | 15999.8 | 14818.5 | 14725.1 | 14628.6 | 15755.2 | 15237.0 |
| 52.5° | 14927.9 | 15129.1 | 16384.5 | 17504.7 | 17717.1 | 16894.6 | 16098.0 | 16036.9 | 16090.0 | 17359.9 | 16159.2 |
| 55°   | 13178.4 | 13403.8 | 15674.7 | 17456.4 | 18037.4 | 17646.3 | 17377.6 | 17374.3 | 17649.6 | 19043.3 | 17149.0 |
| 57.5° | 12198.2 | 12357.5 | 14229.4 | 17374.3 | 18417.3 | 18393.1 | 18644.2 | 18674.7 | 19210.7 | 20876.5 | 18185.5 |
| 60°   | 11644.5 | 11811.9 | 13497.1 | 17070.1 | 19006.4 | 19358.8 | 19936.6 | 19997.7 | 20797.6 | 22906.1 | 19432.8 |
| 62.5° | 11140.8 | 11324.3 | 13043.3 | 16450.5 | 19700.0 | 20739.7 | 21484.9 | 21539.6 | 22478.0 | 24991.9 | 20638.3 |
| 65°   | 10279.7 | 10487.4 | 12378.5 | 16043.3 | 20330.9 | 22540.8 | 23453.3 | 23490.4 | 24407.8 | 27177.6 | 21560.6 |
| 67.5° | 9062.9  | 9252.9  | 11124.7 | 15143.6 | 20797.6 | 24728.0 | 26070.3 | 26091.3 | 26321.4 | 28721.1 | 22032.1 |
| 70°   | 7641.8  | 7714.2  | 9338.2  | 13286.2 | 20245.6 | 26773.7 | 28938.4 | 28943.3 | 28066.0 | 29709.4 | 21954.9 |
| 72.5° | 5369.3  | 5539.8  | 6779.2  | 10057.6 | 17398.4 | 26524.2 | 30427.1 | 30481.9 | 28877.2 | 29210.4 | 20200.5 |
| 75°   | 3293.0  | 3473.3  | 4252.2  | 6095.1  | 11037.8 | 20860.4 | 28112.7 | 28492.6 | 27356.3 | 26044.6 | 16502.0 |
| 77.5° | 2201.8  | 2269.3  | 2774.7  | 3553.8  | 5000.6  | 12001.9 | 21613.7 | 22328.3 | 22725.8 | 18993.4 | 10553.3 |
| 80°   | 1228.1  | 1356.8  | 1839.6  | 2208.2  | 2224.3  | 4768.9  | 12959.5 | 13126.9 | 12644.1 | 7563.0  | 3255.9  |
| 82.5° | 650.2   | 721.0   | 1228.1  | 1297.3  | 1213.5  | 1596.6  | 4830.1  | 4834.8  | 4039.7  | 2028.0  | 967.3   |
| 85°   | 503.8   | 563.3   | 841.7   | 791.9   | 619.7   | 708.2   | 1593.4  | 1680.3  | 1374.5  | 830.5   | 315.4   |
| 87.5° | 251.1   | 312.3   | 571.3   | 502.2   | 243.0   | 202.8   | 569.7   | 608.4   | 542.4   | 325.1   | 114.3   |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8404.7  | 8404.7 | 8404.7 | 8404.7 | 8404.7 | 8404.7 | 8404.7 | 8404.7 | 8404.7 | 8404.7 | 8404.7 |
| 2.5°  | 8425.6  | 8440.1 | 8457.8 | 8438.5 | 8432.1 | 8406.3 | 8362.9 | 8353.2 | 8330.6 | 8332.2 | 8345.2 |
| 5°    | 8499.6  | 8523.8 | 8514.2 | 8440.1 | 8351.6 | 8227.6 | 8098.9 | 7989.4 | 7917.0 | 7912.2 | 7907.3 |
| 7.5°  | 8641.3  | 8657.3 | 8581.7 | 8370.9 | 8123.0 | 7836.6 | 7566.1 | 7329.6 | 7186.3 | 7150.9 | 7142.8 |
| 10°   | 8863.4  | 8860.1 | 8652.6 | 8227.6 | 7733.5 | 7221.7 | 6787.2 | 6458.8 | 6267.3 | 6211.0 | 6196.5 |
| 12.5° | 9111.3  | 9074.2 | 8676.7 | 7966.9 | 7183.1 | 6473.3 | 5922.9 | 5557.5 | 5358.0 | 5293.6 | 5277.5 |
| 15°   | 9367.2  | 9275.4 | 8617.2 | 7577.4 | 6507.1 | 5667.0 | 5089.1 | 4751.2 | 4643.3 | 4607.9 | 4601.5 |
| 17.5° | 9605.4  | 9428.3 | 8446.5 | 7049.5 | 5736.2 | 4863.8 | 4413.2 | 4277.9 | 4303.7 | 4350.4 | 4352.0 |
| 20°   | 9838.7  | 9531.3 | 8172.9 | 6383.2 | 4923.4 | 4202.3 | 4049.4 | 4149.2 | 4271.5 | 4366.5 | 4379.4 |
| 22.5° | 10068.9 | 9603.8 | 7820.4 | 5613.9 | 4195.9 | 3830.5 | 3938.4 | 4120.2 | 4260.2 | 4363.3 | 4381.0 |
| 25°   | 10262.0 | 9621.5 | 7334.4 | 4793.0 | 3690.5 | 3690.5 | 3885.3 | 4057.4 | 4195.9 | 4297.3 | 4315.0 |
| 27.5° | 10332.8 | 9502.3 | 6648.7 | 4033.3 | 3436.2 | 3626.1 | 3811.2 | 3954.5 | 4072.0 | 4179.9 | 4199.1 |
| 30°   | 10360.2 | 9281.8 | 5856.9 | 3423.3 | 3331.6 | 3556.9 | 3711.5 | 3833.8 | 3944.8 | 4046.3 | 4064.0 |
| 32.5° | 10365.1 | 9016.3 | 5016.8 | 3077.3 | 3259.2 | 3484.5 | 3587.5 | 3695.4 | 3814.5 | 3854.7 | 3861.2 |
| 35°   | 10395.6 | 8702.4 | 4131.5 | 2900.3 | 3191.6 | 3416.9 | 3499.0 | 3576.3 | 3383.1 | 3397.6 | 3410.5 |
| 37.5° | 10484.1 | 8391.8 | 3391.2 | 2800.5 | 3148.2 | 3381.5 | 3479.7 | 3199.7 | 3048.4 | 3012.9 | 3008.2 |
| 40°   | 10649.9 | 8060.3 | 2842.3 | 2720.0 | 3132.0 | 3399.2 | 3355.8 | 2987.2 | 2726.5 | 2531.7 | 2502.7 |
| 42.5° | 10880.1 | 7703.0 | 2491.5 | 2666.9 | 3143.3 | 3484.5 | 3183.6 | 2782.8 | 2349.8 | 2224.3 | 2208.2 |
| 45°   | 11139.2 | 7327.9 | 2301.6 | 2629.9 | 3182.0 | 3550.5 | 3148.2 | 2510.8 | 2174.4 | 2079.4 | 2071.4 |
| 47.5° | 11390.3 | 6869.2 | 2203.4 | 2613.8 | 3235.1 | 3497.4 | 2998.5 | 2427.1 | 2090.7 | 2040.8 | 2045.7 |
| 50°   | 11678.3 | 6455.6 | 2143.9 | 2596.1 | 3281.7 | 3463.6 | 2829.5 | 2383.6 | 2058.5 | 2119.6 | 2184.1 |
| 52.5° | 11921.4 | 6027.5 | 2090.7 | 2560.6 | 3299.4 | 3404.1 | 2786.0 | 2391.7 | 2058.5 | 2176.0 | 2237.2 |
| 55°   | 12209.5 | 5704.0 | 2029.6 | 2486.7 | 3265.6 | 3235.1 | 2755.4 | 2440.0 | 2082.7 | 2008.6 | 2015.0 |
| 57.5° | 12581.3 | 5597.8 | 1961.9 | 2370.8 | 3153.0 | 2988.8 | 2741.0 | 2486.7 | 2068.2 | 2021.5 | 2037.6 |
| 60°   | 13096.3 | 5710.4 | 1934.6 | 2219.5 | 2977.5 | 2795.7 | 2742.6 | 2462.5 | 1966.8 | 1886.3 | 1887.9 |
| 62.5° | 13587.2 | 5836.0 | 1933.0 | 2124.5 | 2761.9 | 2623.4 | 2705.5 | 2383.6 | 1915.3 | 1868.6 | 1886.3 |
| 65°   | 13748.2 | 5708.8 | 1855.7 | 2018.3 | 2518.8 | 2417.5 | 2638.0 | 2299.9 | 1876.7 | 1805.8 | 1802.6 |
| 67.5° | 13532.5 | 5314.5 | 1699.6 | 1846.0 | 2240.4 | 2177.6 | 2549.4 | 2200.1 | 1815.5 | 1757.6 | 1747.9 |
| 70°   | 12891.9 | 4434.1 | 1506.5 | 1619.1 | 1923.4 | 1907.3 | 2409.4 | 2084.2 | 1733.4 | 1683.5 | 1641.7 |
| 72.5° | 11168.1 | 3159.4 | 1269.9 | 1347.1 | 1566.0 | 1617.5 | 2216.2 | 1933.0 | 1617.5 | 1509.7 | 1445.3 |
| 75°   | 9172.4  | 2338.6 | 1043.0 | 1059.1 | 1189.4 | 1329.4 | 1950.7 | 1756.0 | 1480.7 | 1297.3 | 1247.3 |
| 77.5° | 5617.0  | 1430.9 | 830.5  | 836.9  | 853.0  | 1060.7 | 1606.3 | 1558.0 | 1306.9 | 1081.5 | 1046.1 |
| 80°   | 1818.8  | 780.6  | 600.3  | 630.9  | 582.6  | 777.4  | 1242.5 | 1326.2 | 1121.8 | 904.5  | 865.9  |
| 82.5° | 692.0   | 455.5  | 405.6  | 426.6  | 404.0  | 521.5  | 906.1  | 1062.2 | 919.0  | 743.6  | 605.1  |
| 85°   | 334.8   | 257.5  | 239.8  | 268.8  | 249.5  | 267.2  | 579.4  | 782.2  | 696.9  | 484.5  | 450.7  |
| 87.5° | 119.1   | 114.3  | 91.8   | 123.9  | 106.2  | 94.9   | 177.1  | 394.3  | 460.3  | 333.1  | 297.7  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)