

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: P322350

Luminaire Tested: **GLEON-SA6A-827-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6A-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14931 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

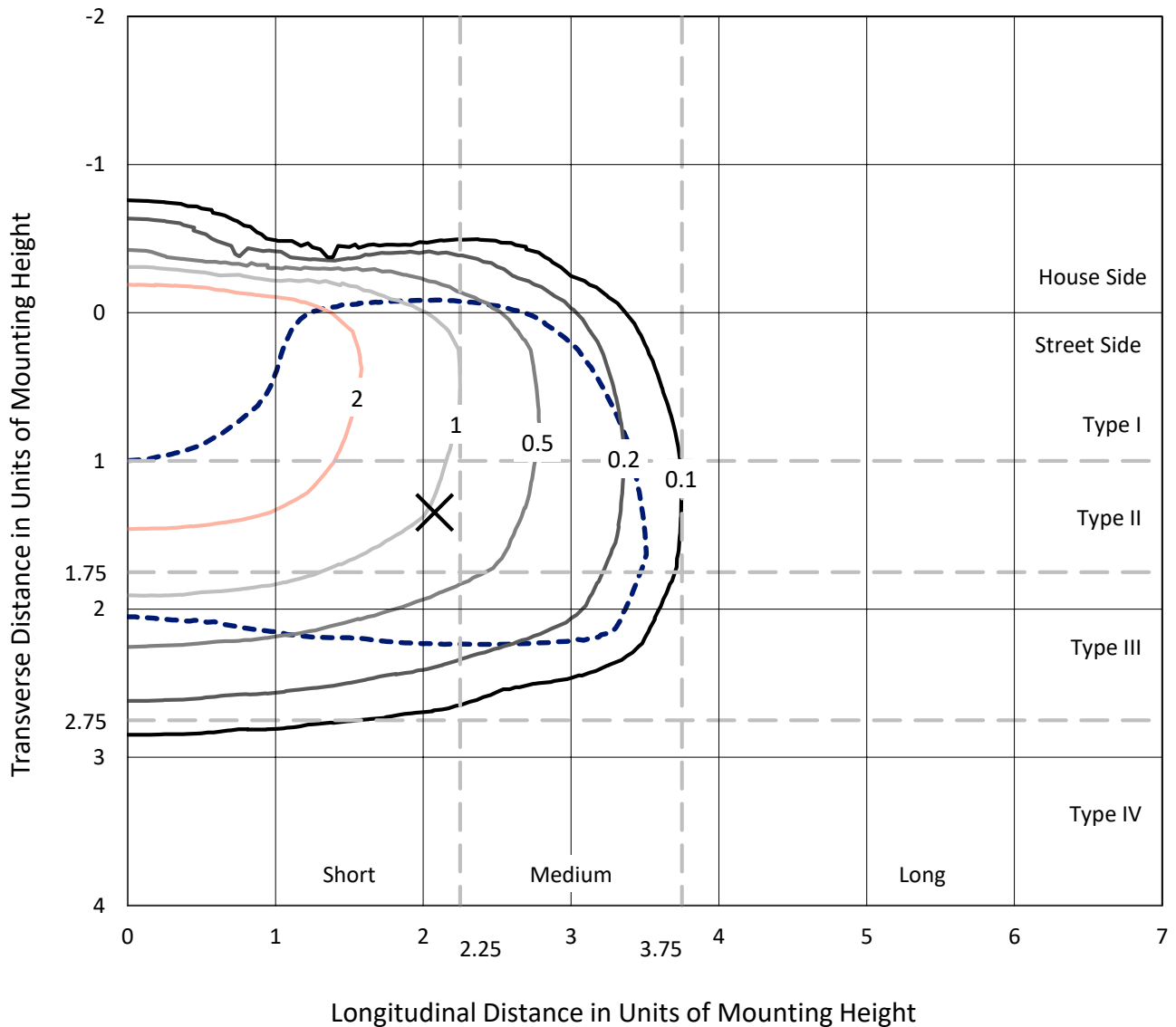
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

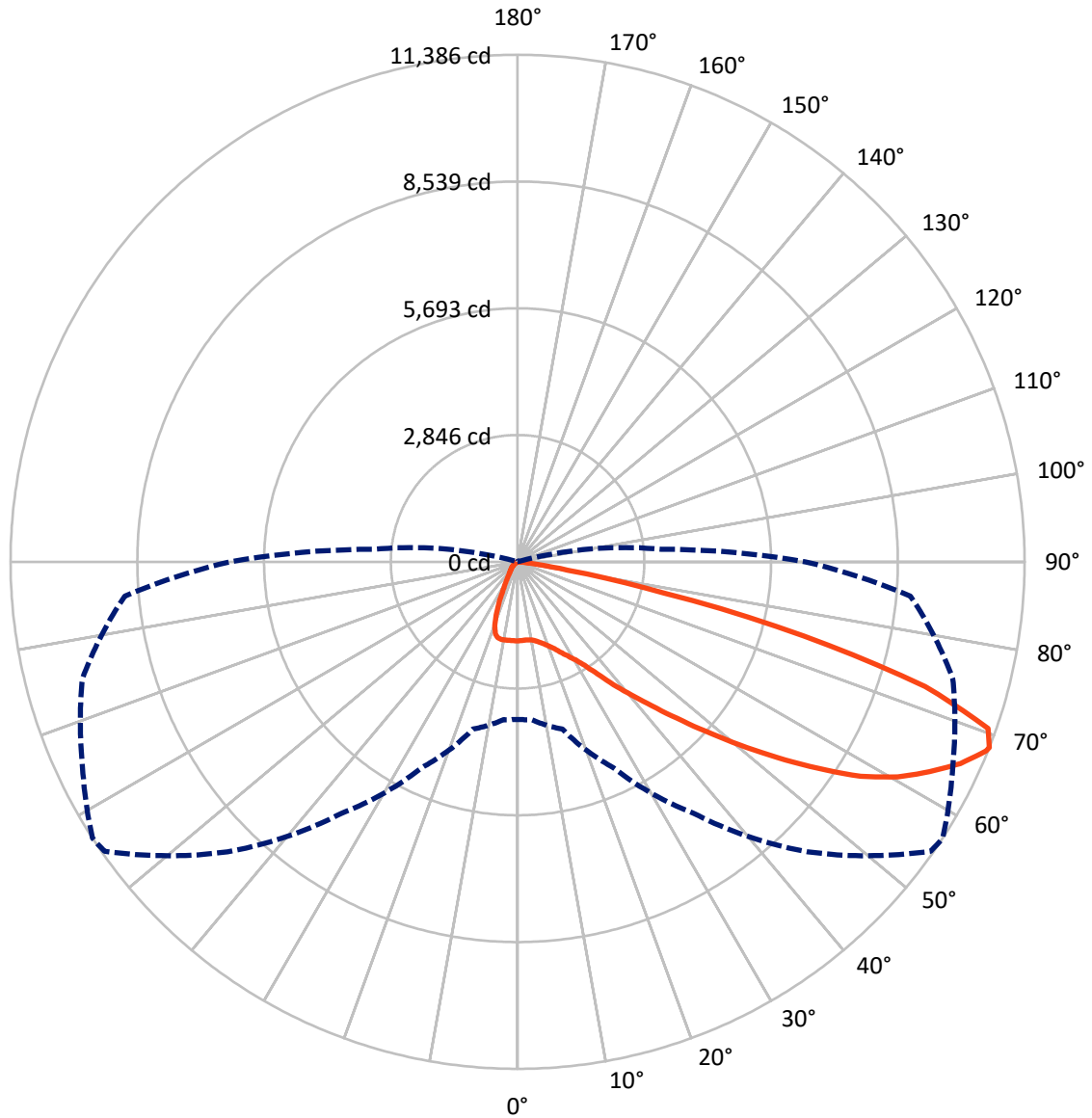
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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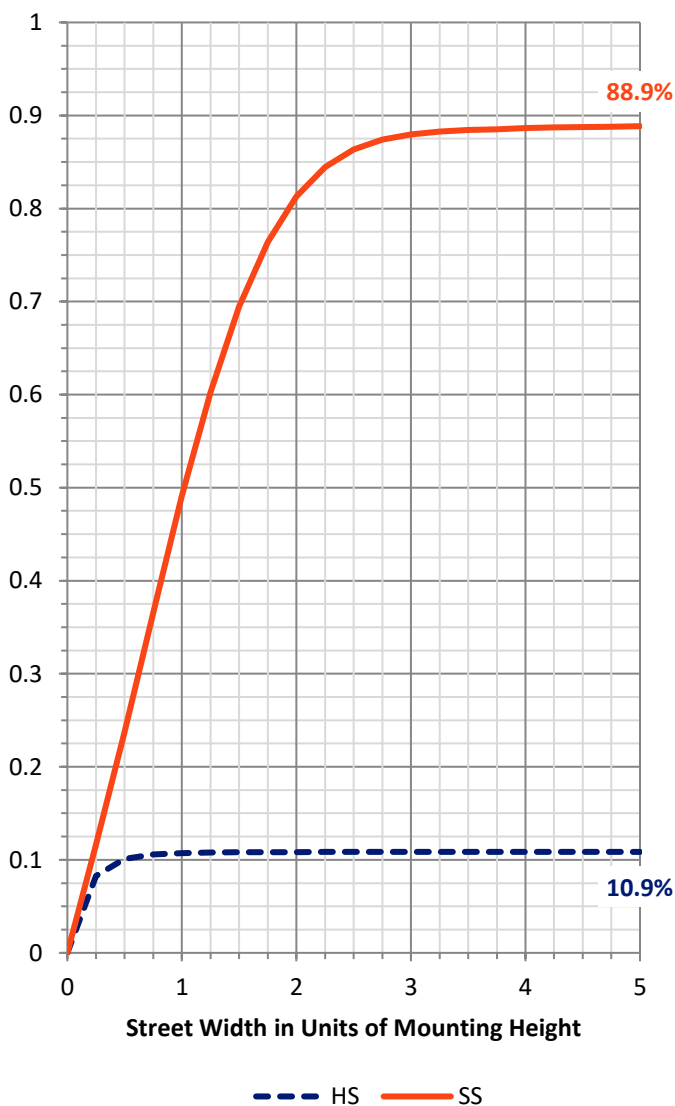
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1637.3   | 0.0    | 1637.3  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 13293.7  | 0.0    | 13293.7 |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 14931.0  | 0.0    | 14931.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 166.0   | 1.1       |
| 10°-20°   | 460.1   | 3.1       |
| 20°-30°   | 793.7   | 5.3       |
| 30°-40°   | 1369.9  | 9.2       |
| 40°-50°   | 2343.3  | 15.7      |
| 50°-60°   | 3749.1  | 25.1      |
| 60°-70°   | 4331.6  | 29.0      |
| 70°-80°   | 1655.2  | 11.1      |
| 80°-90°   | 62.0    | 0.4       |
| 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°    | 14931.0 | 100.0     |
| 0°-180°   | 14931.0 | 100.0     |

**Coefficient of Utilization**



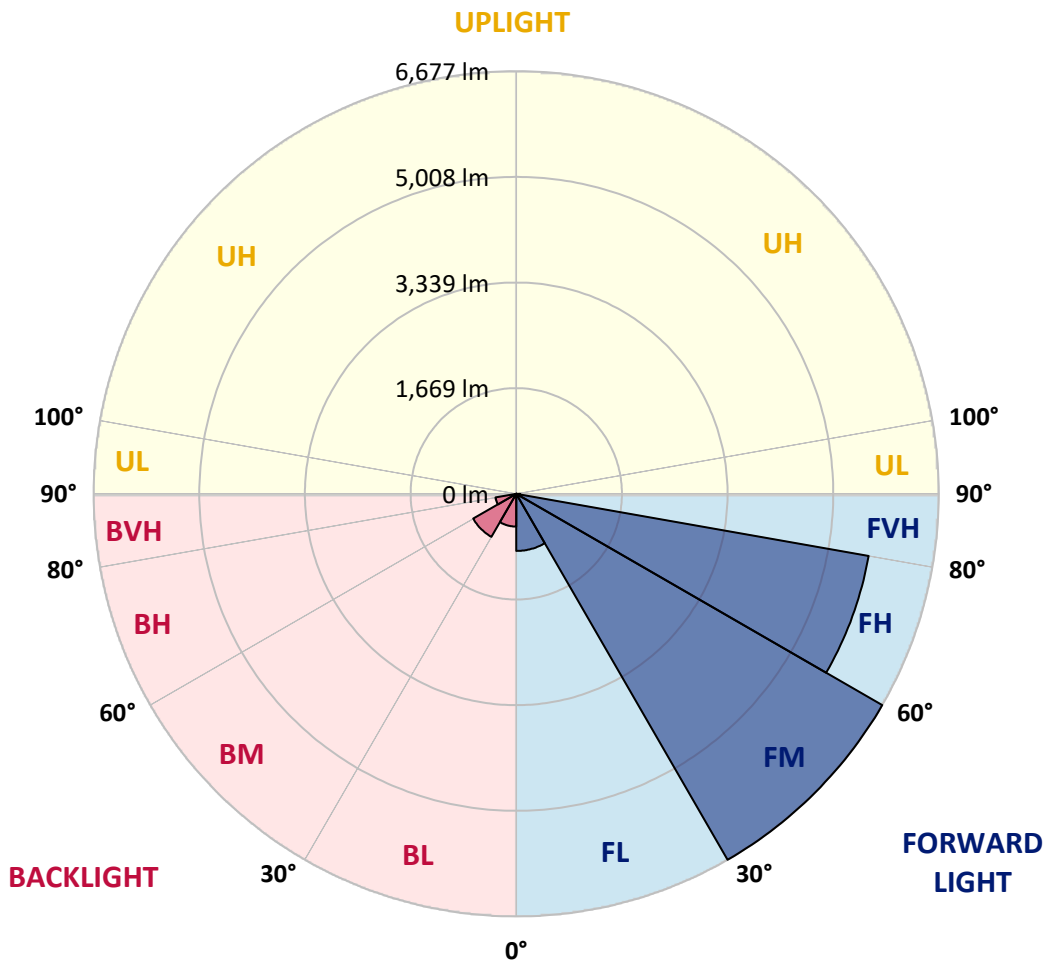
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 902.4  | 6.0       |                         |      |         |
| FM (30°-60°)   | 6677.0 | 44.7      |                         |      |         |
| FH (60°-80°)   | 5653.4 | 37.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 60.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 517.4  | 3.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 785.3  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 333.4  | 2.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.1    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 57°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2  | 1774.2  | 1774.2  | 1774.2  | 1774.2  | 1774.2 |
| 2.5°  | 1732.5 | 1740.3 | 1746.0 | 1749.5 | 1753.7 | 1762.9  | 1765.7  | 1770.0  | 1772.1  | 1772.1  | 1777.0 |
| 5°    | 1664.1 | 1672.5 | 1684.5 | 1694.4 | 1714.2 | 1739.6  | 1758.0  | 1765.0  | 1777.7  | 1789.0  | 1795.4 |
| 7.5°  | 1600.5 | 1610.4 | 1624.5 | 1647.8 | 1681.7 | 1722.7  | 1760.8  | 1770.7  | 1795.4  | 1819.4  | 1831.4 |
| 10°   | 1559.6 | 1567.3 | 1585.7 | 1618.9 | 1663.4 | 1720.5  | 1774.2  | 1786.2  | 1828.6  | 1868.8  | 1891.4 |
| 12.5° | 1545.5 | 1552.5 | 1571.6 | 1609.0 | 1664.1 | 1731.1  | 1805.3  | 1822.9  | 1885.0  | 1943.6  | 1975.4 |
| 15°   | 1565.9 | 1567.3 | 1587.8 | 1623.1 | 1677.5 | 1757.3  | 1856.8  | 1878.0  | 1956.3  | 2032.6  | 2072.1 |
| 17.5° | 1645.0 | 1638.6 | 1649.2 | 1664.8 | 1707.8 | 1791.8  | 1911.2  | 1942.9  | 2047.4  | 2137.1  | 2174.5 |
| 20°   | 1842.7 | 1842.7 | 1818.7 | 1776.3 | 1777.0 | 1845.5  | 1984.6  | 2020.6  | 2148.4  | 2252.2  | 2286.1 |
| 22.5° | 2180.9 | 2174.5 | 2126.5 | 2022.7 | 1927.4 | 1938.0  | 2074.2  | 2120.8  | 2269.8  | 2380.7  | 2392.0 |
| 25°   | 2587.5 | 2579.8 | 2505.6 | 2359.5 | 2194.3 | 2087.7  | 2195.7  | 2249.3  | 2414.5  | 2512.7  | 2489.4 |
| 27.5° | 3018.2 | 3011.8 | 2938.4 | 2757.0 | 2521.9 | 2326.3  | 2340.4  | 2391.2  | 2562.1  | 2658.8  | 2584.7 |
| 30°   | 3435.4 | 3437.5 | 3364.8 | 3178.4 | 2912.3 | 2630.6  | 2524.0  | 2553.6  | 2705.4  | 2803.6  | 2697.7 |
| 32.5° | 3832.2 | 3835.0 | 3772.2 | 3563.9 | 3315.4 | 2984.3  | 2778.1  | 2770.4  | 2872.0  | 2968.8  | 2847.3 |
| 35°   | 4185.9 | 4193.0 | 4149.9 | 3988.2 | 3724.9 | 3378.2  | 3107.8  | 3089.5  | 3108.6  | 3218.0  | 3076.8 |
| 37.5° | 4526.9 | 4531.2 | 4498.7 | 4362.4 | 4142.1 | 3811.0  | 3524.4  | 3498.3  | 3457.3  | 3541.3  | 3379.7 |
| 40°   | 4900.4 | 4889.8 | 4852.4 | 4728.8 | 4539.6 | 4289.0  | 3972.0  | 3926.8  | 3855.5  | 3930.3  | 3777.8 |
| 42.5° | 5247.8 | 5235.8 | 5242.1 | 5102.3 | 4942.8 | 4780.4  | 4493.7  | 4416.1  | 4374.4  | 4460.6  | 4266.4 |
| 45°   | 5681.9 | 5675.6 | 5696.8 | 5575.3 | 5446.1 | 5328.2  | 5091.7  | 5007.0  | 4988.6  | 5089.6  | 4857.3 |
| 47.5° | 6110.5 | 6126.0 | 6191.7 | 6140.1 | 6087.9 | 5984.1  | 5725.0  | 5686.9  | 5698.2  | 5820.3  | 5480.7 |
| 50°   | 6467.7 | 6486.1 | 6666.1 | 6725.4 | 6801.0 | 6740.3  | 6480.4  | 6457.1  | 6501.6  | 6611.8  | 6151.4 |
| 52.5° | 6726.1 | 6763.6 | 6987.4 | 7260.6 | 7535.9 | 7576.9  | 7317.8  | 7296.6  | 7356.6  | 7373.5  | 6669.7 |
| 55°   | 6905.5 | 6938.6 | 7192.1 | 7691.9 | 8252.5 | 8429.0  | 8268.1  | 8186.2  | 8174.9  | 8007.5  | 7214.7 |
| 57.5° | 6937.2 | 6933.7 | 7298.0 | 7970.8 | 8814.5 | 9269.9  | 9168.2  | 9087.7  | 8856.2  | 8593.5  | 7839.5 |
| 60°   | 6757.9 | 6778.4 | 7201.3 | 8067.5 | 9167.5 | 9906.0  | 9913.8  | 9809.3  | 9448.5  | 9163.3  | 8445.3 |
| 62.5° | 6205.8 | 6289.1 | 6716.2 | 7814.1 | 9163.3 | 10162.3 | 10460.2 | 10380.4 | 9949.1  | 9629.9  | 9059.5 |
| 65°   | 5310.6 | 5340.2 | 5747.6 | 6945.7 | 8544.1 | 10055.0 | 10952.3 | 10922.6 | 10400.2 | 10083.2 | 9375.1 |
| 67.5° | 3878.1 | 3813.9 | 4241.7 | 5469.4 | 7233.8 | 9429.4  | 11305.3 | 11342.7 | 10748.3 | 10176.4 | 9039.0 |
| 68°   | 3539.2 | 3558.3 | 3891.5 | 5104.4 | 6890.6 | 9208.5  | 11328.6 | 11385.8 | 10782.9 | 10115.7 | 8855.5 |
| 70°   | 2109.5 | 2146.3 | 2443.5 | 3514.5 | 5242.1 | 7958.1  | 11077.3 | 11207.9 | 10576.7 | 9489.4  | 7659.5 |
| 72.5° | 538.7  | 582.5  | 863.4  | 1573.0 | 2994.2 | 5607.1  | 9351.1  | 9572.0  | 9183.0  | 7698.3  | 5170.8 |
| 75°   | 221.7  | 233.0  | 308.5  | 518.2  | 1115.5 | 2526.1  | 6163.4  | 6636.5  | 6366.1  | 4608.8  | 2336.9 |
| 77.5° | 153.2  | 161.0  | 198.4  | 287.3  | 482.9  | 856.4   | 3021.7  | 3363.4  | 3030.2  | 1573.0  | 509.7  |
| 80°   | 110.1  | 116.5  | 141.9  | 191.3  | 277.5  | 305.7   | 984.9   | 1138.8  | 904.4   | 345.2   | 126.4  |
| 82.5° | 65.7   | 70.6   | 105.9  | 136.3  | 168.7  | 146.1   | 245.0   | 278.2   | 261.9   | 171.6   | 56.5   |
| 85°   | 32.5   | 38.1   | 71.3   | 97.4   | 91.1   | 61.4    | 74.8    | 83.3    | 103.1   | 104.5   | 30.4   |
| 87.5° | 2.1    | 4.2    | 41.7   | 58.6   | 25.4   | 14.1    | 21.9    | 26.8    | 36.7    | 51.5    | 12.7   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 | 1774.2 |
| 2.5°  | 1779.1 | 1779.8 | 1774.9 | 1772.8 | 1774.2 | 1765.7 | 1762.2 | 1763.6 | 1763.6 | 1765.7 | 1762.2 |
| 5°    | 1796.8 | 1796.8 | 1788.3 | 1777.0 | 1770.7 | 1754.4 | 1743.8 | 1741.0 | 1738.9 | 1737.5 | 1734.7 |
| 7.5°  | 1834.9 | 1830.7 | 1815.9 | 1791.1 | 1770.0 | 1734.7 | 1707.8 | 1693.7 | 1686.7 | 1683.8 | 1681.7 |
| 10°   | 1896.3 | 1888.6 | 1863.9 | 1818.0 | 1769.3 | 1706.4 | 1647.8 | 1606.2 | 1571.6 | 1557.5 | 1549.0 |
| 12.5° | 1978.9 | 1967.6 | 1926.0 | 1849.7 | 1764.3 | 1648.5 | 1521.4 | 1399.3 | 1285.6 | 1239.0 | 1215.7 |
| 15°   | 2074.2 | 2058.0 | 1992.4 | 1876.6 | 1735.4 | 1517.9 | 1241.9 | 1027.9 | 870.5  | 811.2  | 785.8  |
| 17.5° | 2171.0 | 2149.8 | 2050.2 | 1893.5 | 1648.5 | 1247.5 | 871.2  | 658.0  | 552.8  | 524.6  | 514.7  |
| 20°   | 2268.4 | 2237.3 | 2100.4 | 1880.8 | 1452.3 | 899.5  | 574.7  | 480.8  | 450.4  | 442.0  | 439.1  |
| 22.5° | 2360.9 | 2312.9 | 2145.6 | 1831.4 | 1150.1 | 603.6  | 454.7  | 425.0  | 415.1  | 410.2  | 408.8  |
| 25°   | 2441.4 | 2374.3 | 2185.1 | 1678.9 | 814.0  | 456.1  | 409.5  | 399.6  | 386.9  | 377.7  | 378.4  |
| 27.5° | 2516.9 | 2435.7 | 2209.1 | 1427.5 | 542.9  | 389.7  | 379.1  | 365.7  | 342.4  | 329.0  | 329.0  |
| 30°   | 2608.0 | 2517.6 | 2226.7 | 1098.5 | 399.6  | 344.5  | 336.1  | 315.6  | 283.8  | 266.2  | 266.2  |
| 32.5° | 2745.0 | 2641.9 | 2215.5 | 771.0  | 331.1  | 302.9  | 283.1  | 254.9  | 220.3  | 203.3  | 202.6  |
| 35°   | 2954.6 | 2833.9 | 2135.0 | 505.5  | 292.3  | 263.3  | 231.6  | 197.0  | 166.6  | 152.5  | 151.8  |
| 37.5° | 3237.0 | 3090.9 | 1954.2 | 361.5  | 261.9  | 226.6  | 188.5  | 150.4  | 127.8  | 118.6  | 117.9  |
| 40°   | 3603.5 | 3389.5 | 1695.8 | 293.0  | 233.7  | 191.3  | 145.4  | 116.5  | 101.0  | 93.9   | 94.6   |
| 42.5° | 4043.3 | 3709.4 | 1385.9 | 252.8  | 206.2  | 157.4  | 113.7  | 91.8   | 81.9   | 77.0   | 75.5   |
| 45°   | 4531.9 | 4024.9 | 1061.1 | 225.2  | 178.6  | 127.1  | 89.0   | 72.7   | 65.0   | 62.1   | 62.1   |
| 47.5° | 5069.1 | 4332.1 | 776.6  | 201.2  | 149.0  | 98.1   | 71.3   | 59.3   | 53.0   | 50.8   | 50.1   |
| 50°   | 5557.0 | 4545.3 | 559.9  | 175.8  | 122.1  | 77.7   | 57.9   | 49.4   | 45.2   | 42.4   | 42.4   |
| 52.5° | 5963.6 | 4612.3 | 412.3  | 148.3  | 98.8   | 62.1   | 48.0   | 42.4   | 38.1   | 36.0   | 36.0   |
| 55°   | 6321.6 | 4584.8 | 306.4  | 122.1  | 79.8   | 50.8   | 40.9   | 36.0   | 32.5   | 30.4   | 30.4   |
| 57.5° | 6664.7 | 4495.9 | 228.7  | 99.5   | 64.2   | 40.9   | 34.6   | 30.4   | 26.8   | 25.4   | 25.4   |
| 60°   | 6945.0 | 4347.6 | 170.1  | 80.5   | 51.5   | 33.2   | 28.9   | 24.7   | 21.9   | 19.8   | 19.8   |
| 62.5° | 7172.3 | 4183.8 | 125.0  | 66.4   | 40.9   | 26.1   | 22.6   | 20.5   | 16.2   | 14.1   | 14.1   |
| 65°   | 7173.7 | 3912.0 | 93.9   | 55.1   | 31.8   | 20.5   | 16.9   | 16.2   | 10.6   | 8.5    | 7.8    |
| 67.5° | 6654.8 | 3372.6 | 72.0   | 47.3   | 24.7   | 15.5   | 12.7   | 13.4   | 5.6    | 3.5    | 2.8    |
| 68°   | 6466.3 | 3235.6 | 67.8   | 46.6   | 23.3   | 14.8   | 12.0   | 13.4   | 4.9    | 2.8    | 2.1    |
| 70°   | 5451.8 | 2574.1 | 54.4   | 45.2   | 20.5   | 11.3   | 9.9    | 13.4   | 4.2    | 2.1    | 1.4    |
| 72.5° | 3487.0 | 1493.9 | 40.2   | 36.0   | 15.5   | 8.5    | 6.4    | 12.0   | 4.2    | 1.4    | 0.7    |
| 75°   | 1484.0 | 463.1  | 27.5   | 25.4   | 9.2    | 6.4    | 4.2    | 7.8    | 2.8    | 0.7    | 0.0    |
| 77.5° | 312.8  | 104.5  | 16.2   | 15.5   | 6.4    | 4.2    | 2.8    | 2.1    | 0.7    | 0.0    | 0.0    |
| 80°   | 80.5   | 30.4   | 8.5    | 7.8    | 3.5    | 2.1    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 25.4   | 12.0   | 4.9    | 3.5    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 12.7   | 7.1    | 2.8    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.1    | 2.1    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)