

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: P324925

Luminaire Tested: **GLEON-SA1C-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324925  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4456 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

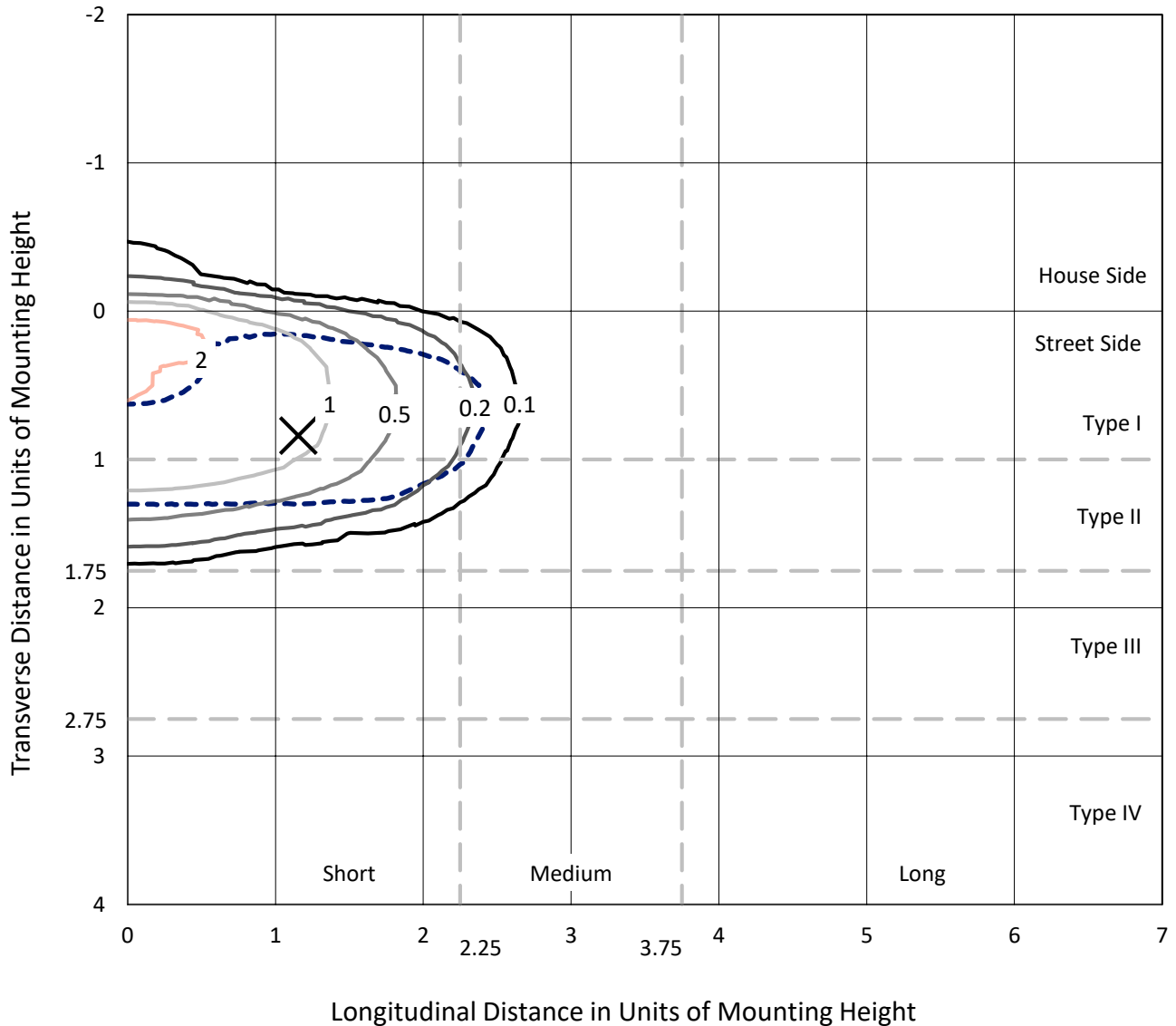
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

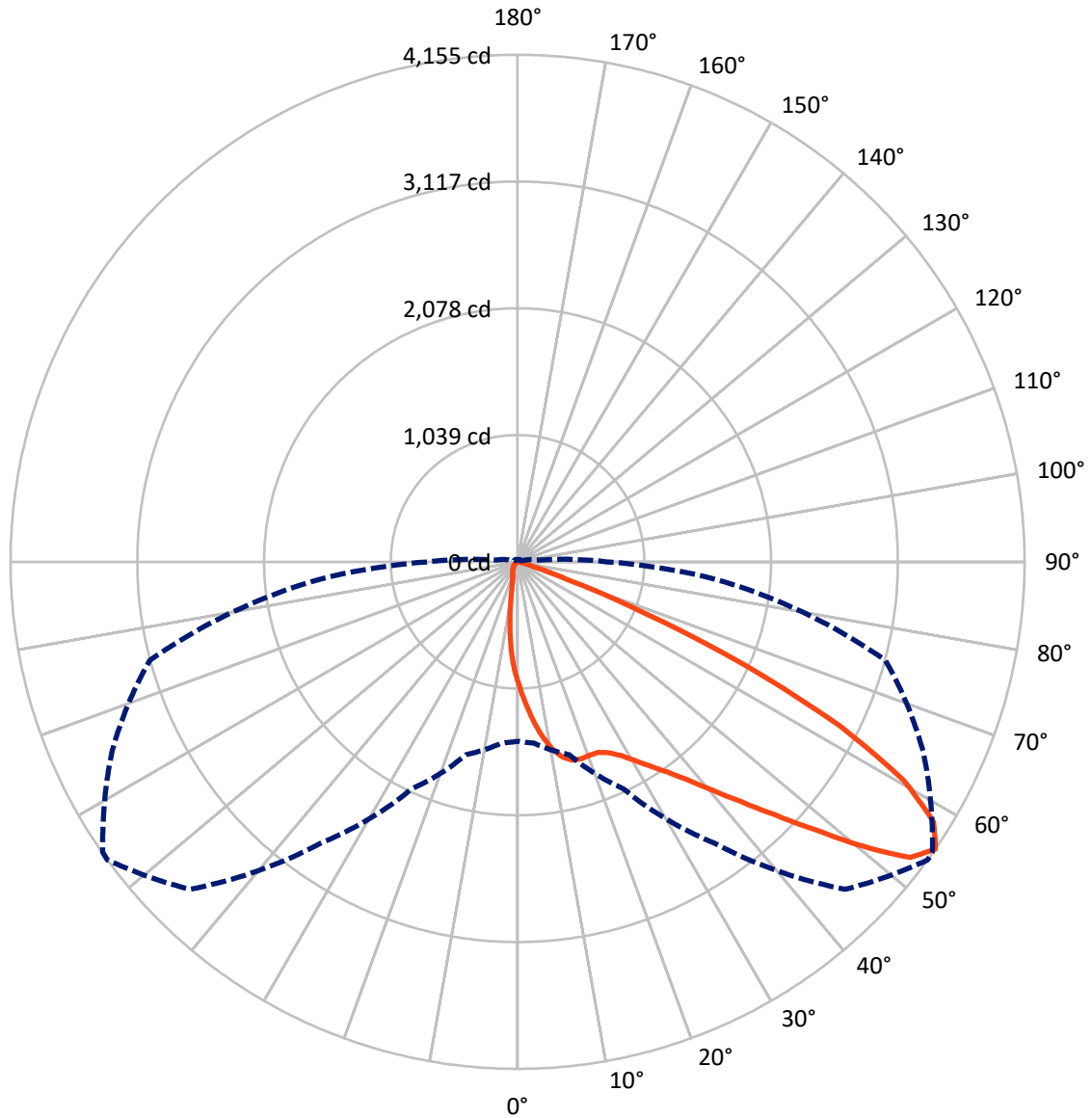
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 222.3    | 0.0    | 222.3  |
|                    | % Fixture | 5.0      | 0.0    | 5.0    |
| <b>Street Side</b> | Lumens    | 4233.7   | 0.0    | 4233.7 |
|                    | % Fixture | 95.0     | 0.0    | 95.0   |
| <b>Total</b>       | Lumens    | 4456.0   | 0.0    | 4456.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 91.9   | 2.1       |
| 10°-20°   | 252.0  | 5.7       |
| 20°-30°   | 430.3  | 9.7       |
| 30°-40°   | 690.6  | 15.5      |
| 40°-50°   | 1103.6 | 24.8      |
| 50°-60°   | 1182.5 | 26.5      |
| 60°-70°   | 607.1  | 13.6      |
| 70°-80°   | 92.0   | 2.1       |
| 80°-90°   | 6.0    | 0.1       |
| 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°    | 4456.0 | 100.0     |
| 0°-180°   | 4456.0 | 100.0     |

**Coefficient of Utilization**

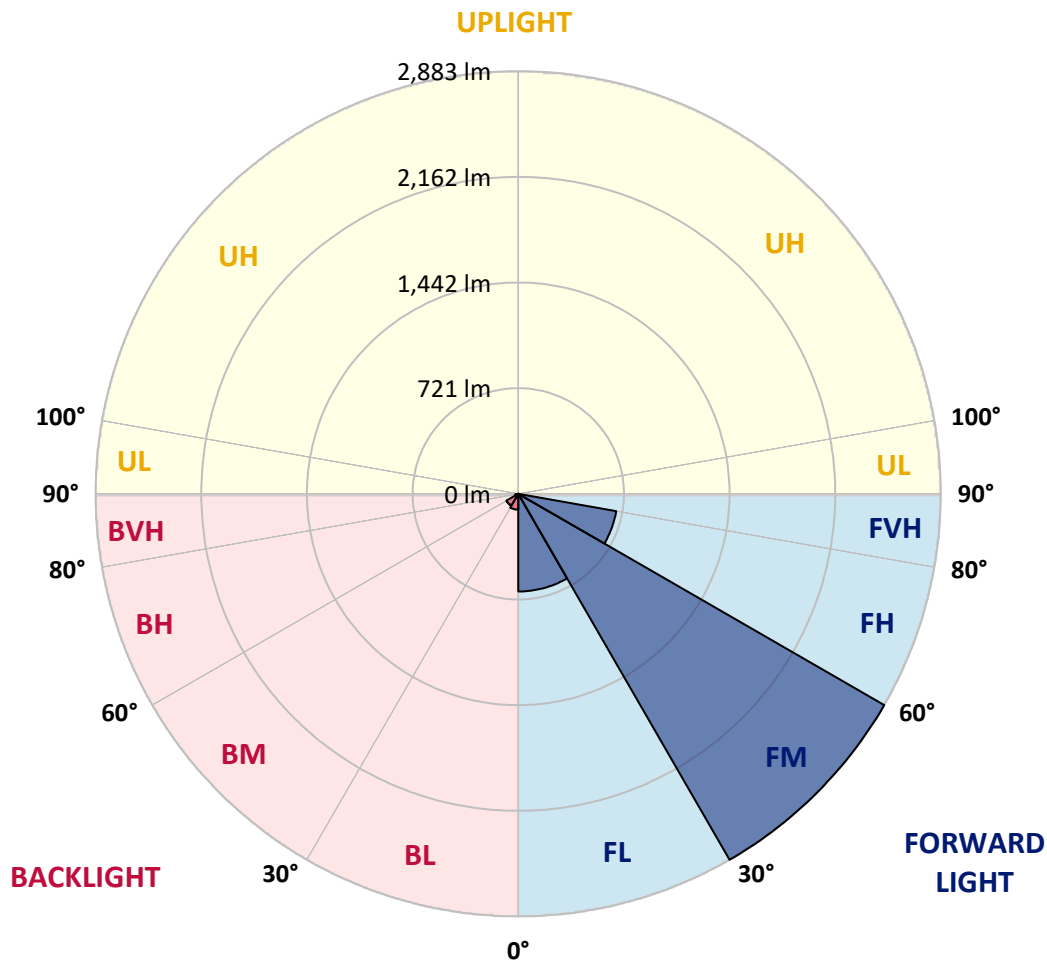


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 666.1  | 14.9      |                         |      |         |
| FM (30°-60°)   | 2883.2 | 64.7      |                         |      |         |
| FH (60°-80°)   | 678.6  | 15.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 5.7    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 108.2  | 2.4       | B0/110                  |      |         |
| BM (30°-60°)   | 93.4   | 2.1       | B0/220                  |      |         |
| BH (60°-80°)   | 20.5   | 0.5       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.2    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  | 998.0  |
| 2.5°  | 1252.4 | 1233.7 | 1234.3 | 1225.8 | 1194.8 | 1170.6 | 1145.4 | 1139.4 | 1100.1 | 1059.0 | 1019.3 |
| 5°    | 1468.9 | 1455.2 | 1451.9 | 1435.6 | 1392.5 | 1346.8 | 1298.0 | 1286.6 | 1209.8 | 1125.5 | 1042.6 |
| 7.5°  | 1580.1 | 1580.3 | 1577.6 | 1571.6 | 1544.7 | 1500.4 | 1440.8 | 1428.8 | 1324.3 | 1197.9 | 1066.9 |
| 10°   | 1547.8 | 1555.1 | 1570.1 | 1589.9 | 1610.5 | 1604.9 | 1560.1 | 1549.3 | 1435.8 | 1274.5 | 1093.8 |
| 12.5° | 1472.3 | 1473.3 | 1490.0 | 1522.5 | 1581.8 | 1642.6 | 1643.4 | 1639.7 | 1542.2 | 1354.5 | 1123.4 |
| 15°   | 1434.8 | 1438.4 | 1444.6 | 1465.6 | 1521.8 | 1619.1 | 1688.8 | 1694.0 | 1639.7 | 1439.6 | 1155.0 |
| 17.5° | 1459.4 | 1464.6 | 1459.4 | 1461.9 | 1494.4 | 1582.0 | 1696.7 | 1710.0 | 1725.0 | 1523.7 | 1184.8 |
| 20°   | 1526.2 | 1531.0 | 1521.8 | 1511.6 | 1517.9 | 1571.2 | 1691.1 | 1709.0 | 1791.8 | 1598.4 | 1209.8 |
| 22.5° | 1616.3 | 1618.2 | 1604.1 | 1587.4 | 1582.8 | 1607.8 | 1695.7 | 1714.2 | 1845.3 | 1665.9 | 1225.6 |
| 25°   | 1715.4 | 1717.1 | 1699.6 | 1680.3 | 1669.4 | 1679.6 | 1733.6 | 1747.5 | 1892.4 | 1730.4 | 1234.7 |
| 27.5° | 1823.3 | 1824.9 | 1802.9 | 1779.2 | 1766.5 | 1766.9 | 1796.2 | 1811.0 | 1942.6 | 1803.9 | 1242.0 |
| 30°   | 1937.4 | 1936.7 | 1916.5 | 1883.5 | 1867.4 | 1867.0 | 1886.2 | 1901.3 | 2015.4 | 1898.2 | 1252.0 |
| 32.5° | 2065.6 | 2064.1 | 2035.4 | 1994.6 | 1976.3 | 1979.0 | 1996.1 | 2004.8 | 2105.6 | 1998.6 | 1269.9 |
| 35°   | 2234.4 | 2229.9 | 2186.6 | 2136.0 | 2102.3 | 2101.4 | 2115.8 | 2122.7 | 2220.7 | 2120.2 | 1299.7 |
| 37.5° | 2453.3 | 2449.3 | 2390.6 | 2317.1 | 2269.8 | 2252.1 | 2269.2 | 2278.0 | 2384.8 | 2276.3 | 1347.6 |
| 40°   | 2669.3 | 2665.2 | 2630.4 | 2563.0 | 2490.1 | 2447.6 | 2461.0 | 2470.5 | 2589.8 | 2465.7 | 1408.0 |
| 42.5° | 2818.2 | 2821.7 | 2833.8 | 2839.4 | 2771.1 | 2681.8 | 2687.9 | 2697.7 | 2805.1 | 2668.1 | 1477.1 |
| 45°   | 2857.5 | 2865.0 | 2933.5 | 3068.0 | 3093.6 | 3023.9 | 2959.4 | 2964.8 | 3023.9 | 2870.5 | 1546.2 |
| 47.5° | 2739.5 | 2753.4 | 2885.6 | 3135.7 | 3352.4 | 3401.7 | 3279.7 | 3272.5 | 3233.9 | 3034.3 | 1595.3 |
| 50°   | 2471.4 | 2484.1 | 2655.4 | 3025.5 | 3430.9 | 3762.3 | 3663.4 | 3642.4 | 3418.0 | 3132.3 | 1612.6 |
| 52.5° | 2083.5 | 2098.9 | 2238.0 | 2678.3 | 3282.9 | 3923.2 | 4026.7 | 4009.2 | 3553.1 | 3140.0 | 1615.5 |
| 55°   | 1471.4 | 1490.0 | 1637.2 | 2052.7 | 2814.0 | 3795.2 | 4155.4 | 4150.2 | 3665.3 | 3119.6 | 1621.6 |
| 57.5° | 826.9  | 840.4  | 999.1  | 1315.9 | 2061.0 | 3305.6 | 4020.9 | 4055.4 | 3733.0 | 3084.1 | 1630.9 |
| 60°   | 367.2  | 370.8  | 453.0  | 655.0  | 1206.6 | 2526.3 | 3635.9 | 3694.0 | 3674.9 | 3036.8 | 1646.5 |
| 62.5° | 203.6  | 200.5  | 200.5  | 272.3  | 524.4  | 1563.9 | 2964.8 | 3060.9 | 3426.9 | 2980.8 | 1647.2 |
| 65°   | 159.5  | 156.6  | 148.4  | 149.5  | 199.7  | 694.1  | 2053.1 | 2223.8 | 2955.8 | 2816.7 | 1591.8 |
| 67.5° | 135.3  | 132.8  | 124.5  | 121.2  | 124.1  | 229.0  | 1128.1 | 1305.3 | 2242.8 | 2390.0 | 1378.8 |
| 70°   | 114.3  | 112.6  | 108.3  | 104.3  | 97.0   | 113.2  | 431.6  | 552.1  | 1382.1 | 1589.9 | 941.2  |
| 72.5° | 92.0   | 91.2   | 92.8   | 89.3   | 80.4   | 75.4   | 147.6  | 178.8  | 620.8  | 709.5  | 387.8  |
| 75°   | 79.3   | 78.9   | 79.7   | 76.2   | 66.2   | 52.5   | 75.0   | 82.0   | 175.1  | 173.6  | 78.5   |
| 77.5° | 51.6   | 52.1   | 66.0   | 64.5   | 57.0   | 35.0   | 38.9   | 42.0   | 53.1   | 39.8   | 23.9   |
| 80°   | 32.9   | 32.5   | 33.5   | 53.5   | 51.2   | 26.7   | 19.4   | 20.4   | 25.6   | 19.6   | 11.5   |
| 82.5° | 20.0   | 19.6   | 21.9   | 25.0   | 25.8   | 18.7   | 11.9   | 12.1   | 16.0   | 12.7   | 6.2    |
| 85°   | 1.7    | 2.3    | 13.3   | 12.3   | 8.9    | 5.8    | 5.8    | 6.2    | 8.5    | 7.5    | 3.5    |
| 87.5° | 0.0    | 0.0    | 2.3    | 3.5    | 1.9    | 2.1    | 2.1    | 2.3    | 3.3    | 3.3    | 1.7    |
| 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°    | 998.0  | 998.0 | 998.0 | 998.0 | 998.0 | 998.0 | 998.0 | 998.0 | 998.0 | 998.0 | 998.0 |
| 2.5°  | 998.7  | 978.7 | 938.3 | 899.4 | 866.5 | 834.8 | 798.6 | 762.8 | 746.1 | 739.3 | 732.4 |
| 5°    | 1000.5 | 959.3 | 876.0 | 792.1 | 705.1 | 626.8 | 560.0 | 491.5 | 457.2 | 442.2 | 435.3 |
| 7.5°  | 1002.8 | 940.0 | 805.3 | 664.5 | 524.4 | 418.2 | 325.4 | 265.8 | 240.0 | 235.9 | 225.9 |
| 10°   | 1003.2 | 916.8 | 723.4 | 523.6 | 351.6 | 252.1 | 194.0 | 163.2 | 151.8 | 149.9 | 146.6 |
| 12.5° | 1003.9 | 889.2 | 632.3 | 387.8 | 234.4 | 168.6 | 140.3 | 130.1 | 127.0 | 126.8 | 126.8 |
| 15°   | 1006.2 | 860.4 | 537.9 | 279.4 | 168.4 | 133.5 | 123.2 | 119.1 | 118.0 | 118.5 | 118.3 |
| 17.5° | 1006.2 | 826.3 | 445.1 | 208.2 | 136.1 | 120.1 | 114.3 | 111.6 | 111.2 | 111.8 | 112.0 |
| 20°   | 998.9  | 784.9 | 360.0 | 162.0 | 120.7 | 111.4 | 106.2 | 103.7 | 102.8 | 103.1 | 103.3 |
| 22.5° | 981.4  | 734.1 | 290.8 | 134.1 | 110.5 | 103.5 | 97.9  | 94.1  | 92.6  | 92.8  | 92.8  |
| 25°   | 954.1  | 673.9 | 227.5 | 116.0 | 102.2 | 95.1  | 88.5  | 84.1  | 83.1  | 82.9  | 83.3  |
| 27.5° | 919.1  | 607.3 | 181.1 | 102.2 | 92.4  | 85.6  | 79.1  | 75.4  | 74.7  | 74.9  | 75.0  |
| 30°   | 884.6  | 538.2 | 142.8 | 90.4  | 81.4  | 75.0  | 70.0  | 68.3  | 68.3  | 68.9  | 69.1  |
| 32.5° | 853.1  | 471.8 | 113.0 | 80.2  | 71.6  | 65.8  | 62.9  | 62.7  | 63.7  | 64.1  | 64.3  |
| 35°   | 825.9  | 410.5 | 93.5  | 72.4  | 63.9  | 58.9  | 57.9  | 58.7  | 59.8  | 60.6  | 60.8  |
| 37.5° | 806.7  | 355.6 | 81.8  | 65.8  | 57.9  | 53.9  | 53.7  | 55.2  | 56.8  | 58.5  | 58.9  |
| 40°   | 798.6  | 309.2 | 73.7  | 60.0  | 53.1  | 50.0  | 49.5  | 51.6  | 54.5  | 57.0  | 57.3  |
| 42.5° | 791.9  | 271.3 | 66.8  | 54.5  | 49.3  | 44.8  | 44.6  | 47.3  | 50.8  | 53.3  | 53.9  |
| 45°   | 786.1  | 240.9 | 60.4  | 48.5  | 44.3  | 38.5  | 39.1  | 42.5  | 45.2  | 47.9  | 48.5  |
| 47.5° | 774.2  | 215.9 | 53.5  | 42.1  | 36.6  | 32.9  | 34.1  | 37.1  | 39.3  | 43.3  | 43.9  |
| 50°   | 752.8  | 195.5 | 46.4  | 34.4  | 29.8  | 28.5  | 30.2  | 32.3  | 35.0  | 38.5  | 38.9  |
| 52.5° | 738.4  | 180.1 | 40.2  | 28.9  | 24.6  | 25.0  | 26.7  | 27.5  | 29.1  | 30.4  | 30.0  |
| 55°   | 730.1  | 171.7 | 35.2  | 25.0  | 21.0  | 22.1  | 22.5  | 21.6  | 20.8  | 19.4  | 18.9  |
| 57.5° | 729.1  | 164.0 | 31.4  | 21.7  | 18.5  | 19.1  | 17.7  | 14.4  | 11.7  | 10.2  | 9.8   |
| 60°   | 727.6  | 154.5 | 28.3  | 18.3  | 16.4  | 15.6  | 12.7  | 7.9   | 5.6   | 5.2   | 5.2   |
| 62.5° | 710.9  | 139.9 | 26.0  | 15.4  | 13.9  | 11.7  | 7.3   | 3.7   | 3.1   | 3.3   | 3.3   |
| 65°   | 657.5  | 119.5 | 23.7  | 12.5  | 11.0  | 8.5   | 3.7   | 2.1   | 1.2   | 1.3   | 1.3   |
| 67.5° | 559.0  | 95.3  | 21.2  | 9.6   | 8.3   | 5.4   | 2.1   | 1.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 374.3  | 59.1  | 17.9  | 6.7   | 5.4   | 3.3   | 1.5   | 0.2   | 0.0   | 0.0   | 0.0   |
| 72.5° | 143.6  | 31.9  | 14.4  | 4.0   | 3.5   | 2.3   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 32.3   | 21.0  | 10.0  | 2.9   | 2.5   | 1.5   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 12.3   | 15.2  | 5.8   | 1.9   | 1.7   | 1.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 6.0    | 9.0   | 2.7   | 1.2   | 1.0   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 3.1    | 3.5   | 1.2   | 0.6   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 1.7    | 1.7   | 0.6   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.0    | 0.6   | 0.2   | 0.2   | 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)