

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: P527386

Luminaire Tested: **GALN-SA2B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

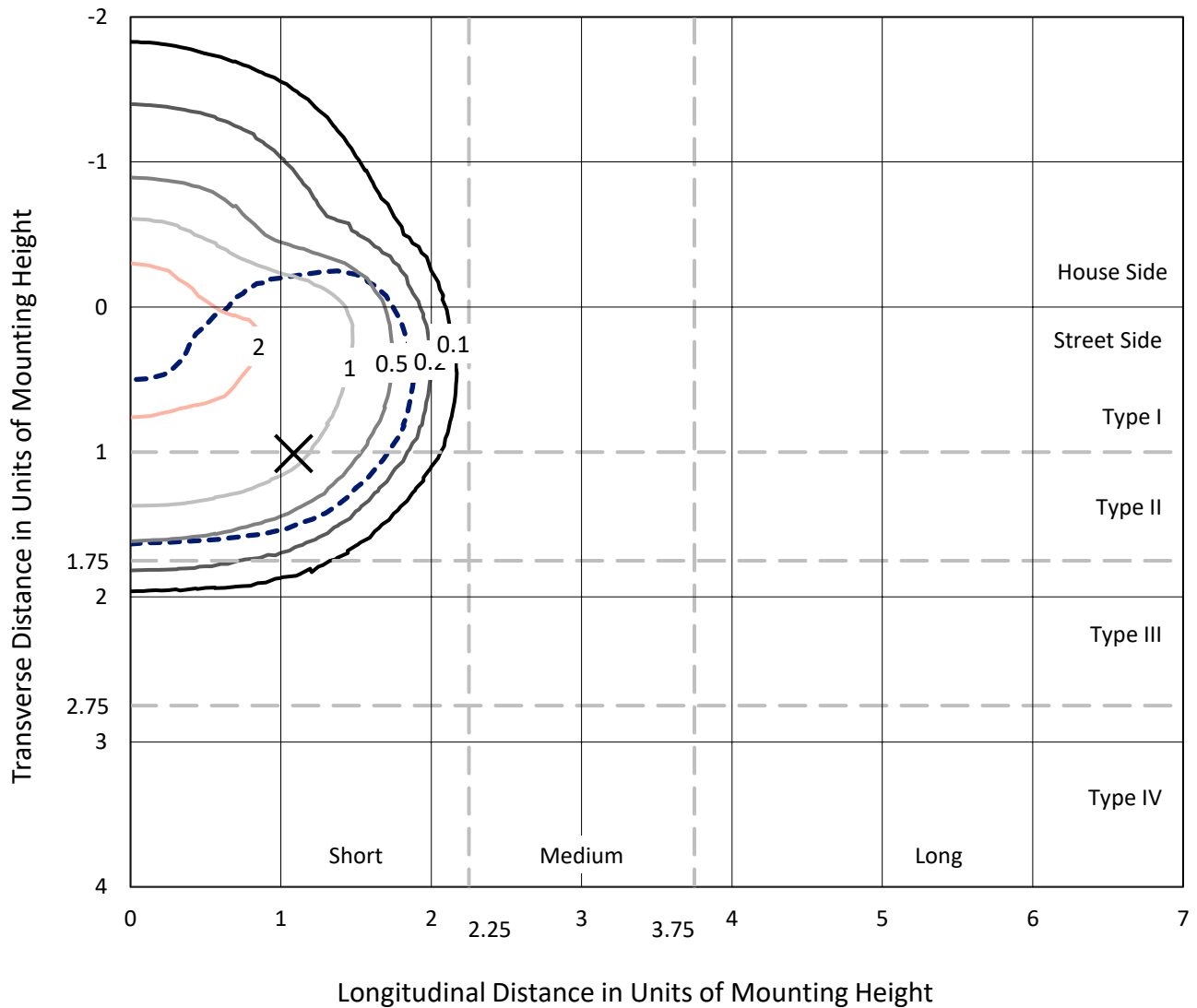
Lumens per Lamp: N/A  
Luminaire Lumens: 7172 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

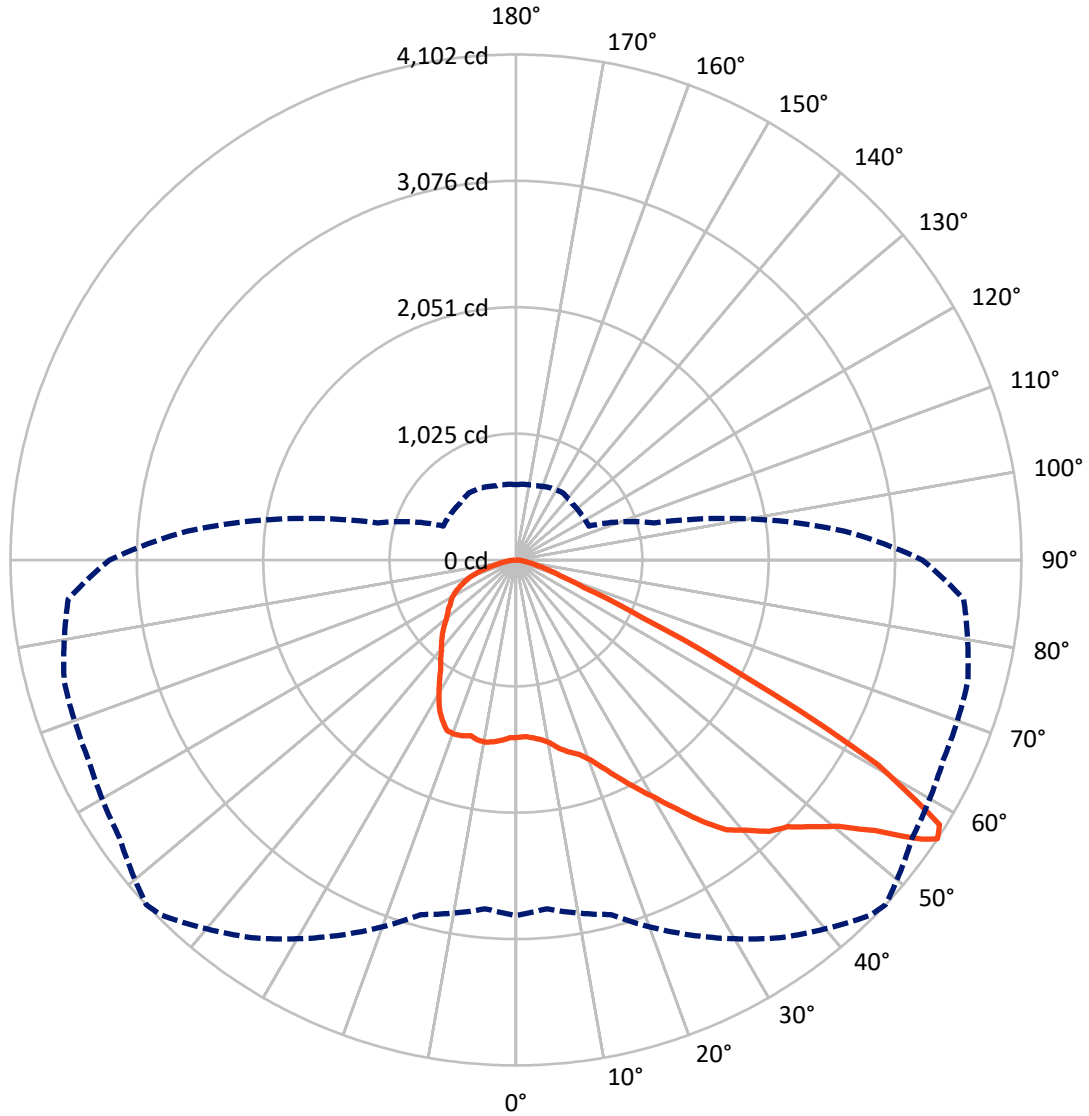
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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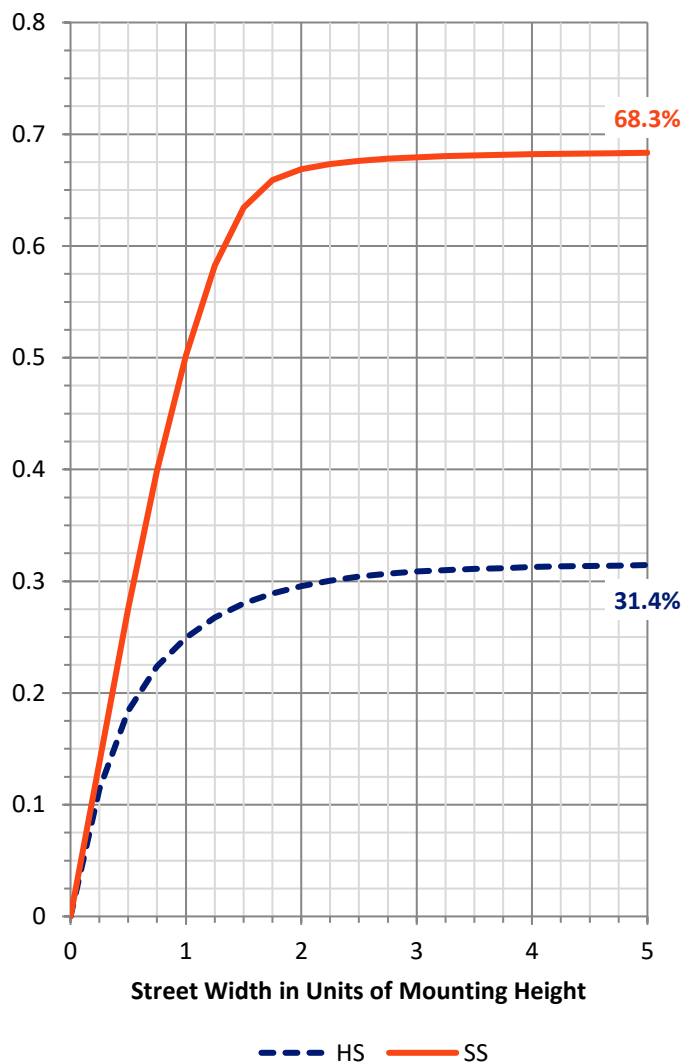
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2272.7   | 0.0    | 2272.7 |
|                    | % Fixture | 31.7     | 0.0    | 31.7   |
| <b>Street Side</b> | Lumens    | 4899.3   | 0.0    | 4899.3 |
|                    | % Fixture | 68.3     | 0.0    | 68.3   |
| <b>Total</b>       | Lumens    | 7172.0   | 0.0    | 7172.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 140.4  | 2.0       |
| 10°-20°   | 442.8  | 6.2       |
| 20°-30°   | 782.8  | 10.9      |
| 30°-40°   | 1175.7 | 16.4      |
| 40°-50°   | 1613.5 | 22.5      |
| 50°-60°   | 1922.3 | 26.8      |
| 60°-70°   | 822.6  | 11.5      |
| 70°-80°   | 232.8  | 3.2       |
| 80°-90°   | 39.2   | 0.5       |
| 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°    | 7172.0 | 100.0     |
| 0°-180°   | 7172.0 | 100.0     |

**Coefficient of Utilization**



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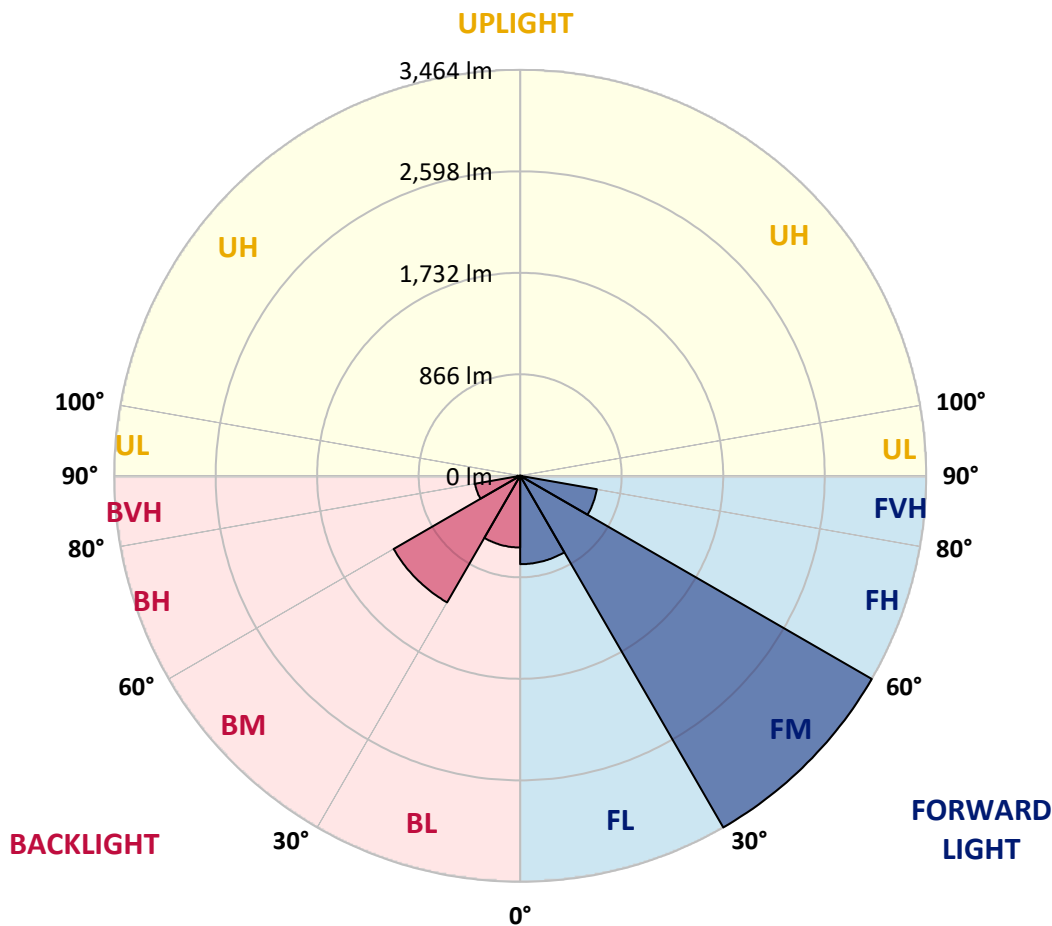
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 754.0  | 10.5      |                         |      |         |
| FM (30°-60°)   | 3464.2 | 48.3      |                         |      |         |
| FH (60°-80°)   | 664.4  | 9.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.6   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 611.9  | 8.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 1247.2 | 17.4      | B2/2500                 |      |         |
| BH (60°-80°)   | 391.0  | 5.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 22.5   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 |
| 2.5°  | 1435.1 | 1432.4 | 1430.6 | 1445.2 | 1439.7 | 1440.6 | 1435.1 | 1440.6 | 1444.3 | 1436.1 | 1448.0 |
| 5°    | 1432.4 | 1440.6 | 1433.3 | 1437.9 | 1449.8 | 1446.1 | 1449.8 | 1460.8 | 1458.0 | 1455.3 | 1451.6 |
| 7.5°  | 1458.0 | 1458.9 | 1464.4 | 1466.2 | 1469.9 | 1466.2 | 1471.7 | 1481.8 | 1479.1 | 1463.5 | 1465.3 |
| 10°   | 1494.6 | 1496.4 | 1497.3 | 1507.4 | 1513.8 | 1514.7 | 1508.3 | 1499.2 | 1498.3 | 1519.3 | 1504.7 |
| 12.5° | 1536.7 | 1532.1 | 1543.1 | 1546.7 | 1554.1 | 1562.3 | 1570.5 | 1551.3 | 1563.2 | 1564.1 | 1546.7 |
| 15°   | 1598.0 | 1602.5 | 1589.7 | 1589.7 | 1592.5 | 1593.4 | 1616.3 | 1607.1 | 1605.3 | 1595.2 | 1602.5 |
| 17.5° | 1689.4 | 1658.3 | 1657.4 | 1644.6 | 1642.8 | 1650.1 | 1658.3 | 1665.7 | 1690.3 | 1670.2 | 1630.9 |
| 20°   | 1756.2 | 1763.5 | 1737.0 | 1721.4 | 1724.2 | 1740.7 | 1732.4 | 1765.4 | 1782.7 | 1749.8 | 1711.4 |
| 22.5° | 1874.2 | 1849.5 | 1855.9 | 1821.1 | 1823.9 | 1841.3 | 1840.4 | 1874.2 | 1884.3 | 1832.1 | 1776.3 |
| 25°   | 1953.8 | 1947.4 | 1952.9 | 1925.4 | 1929.1 | 1942.8 | 1964.8 | 2020.6 | 2004.1 | 1946.5 | 1817.5 |
| 27.5° | 2069.9 | 2057.1 | 2052.6 | 2042.5 | 2038.8 | 2075.4 | 2101.0 | 2160.5 | 2148.6 | 2064.5 | 1890.7 |
| 30°   | 2188.9 | 2180.6 | 2185.2 | 2144.0 | 2158.7 | 2236.4 | 2243.7 | 2325.1 | 2319.7 | 2171.5 | 1972.1 |
| 32.5° | 2271.2 | 2275.7 | 2284.0 | 2261.1 | 2326.1 | 2388.3 | 2413.0 | 2505.3 | 2509.9 | 2355.3 | 2129.4 |
| 35°   | 2403.8 | 2388.3 | 2392.8 | 2419.4 | 2449.5 | 2563.0 | 2603.2 | 2664.5 | 2702.9 | 2548.3 | 2280.3 |
| 37.5° | 2487.0 | 2503.5 | 2484.3 | 2526.4 | 2605.0 | 2741.3 | 2777.9 | 2841.0 | 2881.3 | 2738.6 | 2486.1 |
| 40°   | 2616.9 | 2590.4 | 2604.1 | 2634.3 | 2714.8 | 2892.3 | 2882.2 | 2947.1 | 2959.9 | 2900.5 | 2678.2 |
| 42.5° | 2756.9 | 2744.1 | 2724.9 | 2793.5 | 2861.2 | 2990.1 | 3010.2 | 2980.1 | 3045.0 | 3058.7 | 2952.6 |
| 45°   | 2924.3 | 2939.8 | 2942.6 | 2944.4 | 3003.8 | 3116.3 | 3088.9 | 3062.4 | 3137.4 | 3237.1 | 3122.8 |
| 47.5° | 3079.8 | 3030.4 | 3066.0 | 3115.4 | 3199.6 | 3200.5 | 3232.5 | 3169.4 | 3249.0 | 3337.7 | 3276.4 |
| 50°   | 3131.9 | 3108.1 | 3155.7 | 3249.0 | 3378.9 | 3392.6 | 3396.2 | 3306.6 | 3347.8 | 3418.2 | 3329.5 |
| 52.5° | 3111.8 | 3103.5 | 3225.2 | 3369.7 | 3560.0 | 3629.5 | 3647.8 | 3537.1 | 3560.0 | 3528.0 | 3446.6 |
| 55°   | 3015.7 | 3040.4 | 3163.0 | 3457.5 | 3749.3 | 3964.3 | 3999.0 | 3859.1 | 3713.6 | 3738.3 | 3648.7 |
| 56°   | 2884.0 | 2841.0 | 2978.2 | 3357.8 | 3741.1 | 4073.1 | 4101.5 | 3926.8 | 3828.0 | 3796.0 | 3646.9 |
| 57.5° | 2446.8 | 2391.0 | 2571.2 | 3021.2 | 3533.4 | 4032.0 | 4053.0 | 3955.1 | 3808.8 | 3743.8 | 3380.7 |
| 60°   | 1432.4 | 1459.8 | 1688.5 | 2083.7 | 2725.8 | 3305.7 | 3376.1 | 3447.5 | 3349.6 | 3058.7 | 2516.3 |
| 62.5° | 691.5  | 674.1  | 837.9  | 1194.6 | 1661.1 | 2110.2 | 2089.2 | 2289.5 | 2399.2 | 2173.3 | 1588.8 |
| 65°   | 362.2  | 360.4  | 457.3  | 652.2  | 912.9  | 1108.6 | 1127.8 | 1235.7 | 1386.7 | 1119.6 | 806.8  |
| 67.5° | 266.2  | 273.5  | 322.0  | 458.3  | 587.2  | 599.1  | 596.4  | 650.3  | 665.0  | 562.5  | 495.8  |
| 70°   | 208.5  | 212.2  | 247.9  | 348.5  | 437.2  | 391.5  | 383.3  | 389.7  | 432.6  | 450.9  | 429.0  |
| 72.5° | 150.9  | 154.6  | 184.8  | 235.1  | 273.5  | 267.1  | 272.6  | 308.3  | 361.3  | 380.5  | 357.6  |
| 75°   | 100.6  | 103.4  | 119.8  | 143.6  | 161.9  | 174.7  | 184.8  | 225.9  | 275.3  | 286.3  | 275.3  |
| 77.5° | 69.5   | 72.3   | 83.2   | 101.5  | 103.4  | 111.6  | 115.3  | 134.5  | 164.6  | 178.4  | 171.0  |
| 80°   | 39.3   | 39.3   | 44.8   | 52.1   | 64.0   | 75.0   | 76.8   | 92.4   | 106.1  | 115.3  | 117.1  |
| 82.5° | 18.3   | 19.2   | 23.8   | 32.0   | 42.1   | 52.1   | 54.0   | 64.0   | 74.1   | 83.2   | 86.0   |
| 85°   | 9.1    | 10.1   | 13.7   | 19.2   | 25.6   | 31.1   | 30.2   | 31.1   | 32.9   | 31.1   | 32.0   |
| 87.5° | 2.7    | 2.7    | 3.7    | 4.6    | 3.7    | 4.6    | 4.6    | 5.5    | 6.4    | 7.3    | 8.2    |
| 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°    | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 | 1440.6 |
| 2.5°  | 1448.9 | 1451.6 | 1433.3 | 1450.7 | 1444.3 | 1443.4 | 1456.2 | 1454.4 | 1458.9 | 1457.1 | 1446.1 |
| 5°    | 1449.8 | 1443.4 | 1462.6 | 1445.2 | 1453.4 | 1470.8 | 1458.9 | 1486.4 | 1472.7 | 1481.8 | 1461.7 |
| 7.5°  | 1478.1 | 1480.0 | 1476.3 | 1483.6 | 1480.0 | 1488.2 | 1481.8 | 1488.2 | 1477.2 | 1478.1 | 1496.4 |
| 10°   | 1502.8 | 1497.3 | 1503.8 | 1494.6 | 1501.0 | 1498.3 | 1483.6 | 1479.1 | 1482.7 | 1478.1 | 1490.0 |
| 12.5° | 1548.6 | 1538.5 | 1533.9 | 1523.0 | 1515.6 | 1488.2 | 1465.3 | 1452.5 | 1469.9 | 1472.7 | 1467.2 |
| 15°   | 1595.2 | 1596.1 | 1575.1 | 1550.4 | 1504.7 | 1463.5 | 1469.0 | 1473.6 | 1473.6 | 1480.9 | 1467.2 |
| 17.5° | 1624.5 | 1624.5 | 1605.3 | 1555.9 | 1509.2 | 1485.5 | 1480.0 | 1465.3 | 1452.5 | 1450.7 | 1449.8 |
| 20°   | 1675.7 | 1660.2 | 1616.3 | 1555.0 | 1507.4 | 1496.4 | 1455.3 | 1420.5 | 1394.0 | 1384.8 | 1383.9 |
| 22.5° | 1734.3 | 1694.9 | 1633.6 | 1556.8 | 1504.7 | 1489.1 | 1412.3 | 1360.1 | 1312.6 | 1292.5 | 1295.2 |
| 25°   | 1788.2 | 1725.1 | 1643.7 | 1548.6 | 1494.6 | 1419.6 | 1333.6 | 1261.4 | 1212.0 | 1195.5 | 1187.3 |
| 27.5° | 1825.7 | 1757.1 | 1643.7 | 1555.9 | 1457.1 | 1341.9 | 1254.0 | 1161.7 | 1118.7 | 1107.7 | 1109.5 |
| 30°   | 1876.0 | 1797.4 | 1672.1 | 1540.3 | 1382.1 | 1241.2 | 1136.0 | 1075.7 | 1050.1 | 1040.9 | 1047.3 |
| 32.5° | 1994.0 | 1902.6 | 1711.4 | 1502.8 | 1293.4 | 1140.6 | 1055.6 | 1021.7 | 984.2  | 965.9  | 959.5  |
| 35°   | 2122.1 | 2002.3 | 1749.8 | 1439.7 | 1193.7 | 1049.1 | 996.1  | 965.0  | 920.2  | 900.1  | 903.7  |
| 37.5° | 2303.2 | 2130.3 | 1752.5 | 1335.4 | 1085.7 | 997.9  | 949.4  | 901.0  | 864.4  | 833.3  | 824.1  |
| 40°   | 2547.4 | 2305.0 | 1746.1 | 1225.7 | 998.8  | 937.6  | 901.9  | 841.5  | 800.4  | 778.4  | 783.0  |
| 42.5° | 2762.4 | 2509.9 | 1719.6 | 1101.3 | 920.2  | 896.4  | 856.1  | 796.7  | 756.4  | 733.6  | 731.8  |
| 45°   | 2943.5 | 2660.8 | 1669.3 | 995.2  | 854.3  | 850.7  | 804.0  | 758.3  | 726.3  | 705.2  | 714.4  |
| 47.5° | 3110.9 | 2782.5 | 1593.4 | 889.1  | 794.0  | 801.3  | 756.4  | 728.1  | 708.0  | 688.8  | 687.8  |
| 50°   | 3171.2 | 2780.7 | 1526.6 | 801.3  | 745.5  | 741.8  | 740.0  | 709.8  | 688.8  | 672.3  | 679.6  |
| 52.5° | 3271.8 | 2811.8 | 1454.4 | 740.9  | 701.6  | 702.5  | 708.9  | 686.9  | 663.2  | 653.1  | 662.2  |
| 55°   | 3416.4 | 2816.3 | 1295.2 | 670.5  | 665.0  | 671.4  | 671.4  | 656.7  | 636.6  | 628.4  | 623.8  |
| 56°   | 3298.4 | 2680.0 | 1161.7 | 652.2  | 646.7  | 646.7  | 664.1  | 647.6  | 622.9  | 616.5  | 611.0  |
| 57.5° | 3042.3 | 2348.0 | 972.3  | 630.2  | 622.0  | 634.8  | 643.9  | 626.6  | 603.7  | 594.5  | 600.0  |
| 60°   | 2098.3 | 1588.8 | 730.8  | 582.7  | 582.7  | 603.7  | 611.0  | 585.4  | 575.3  | 574.4  | 567.1  |
| 62.5° | 1224.8 | 925.7  | 571.7  | 539.7  | 541.5  | 558.9  | 564.4  | 549.7  | 536.9  | 552.5  | 559.8  |
| 65°   | 649.4  | 552.5  | 490.3  | 493.9  | 494.8  | 508.6  | 532.3  | 531.4  | 530.5  | 535.1  | 536.0  |
| 67.5° | 470.2  | 459.2  | 445.5  | 441.8  | 443.6  | 453.7  | 477.5  | 495.8  | 494.8  | 483.9  | 475.6  |
| 70°   | 418.9  | 403.4  | 395.1  | 396.1  | 388.7  | 400.6  | 419.8  | 431.7  | 410.7  | 397.9  | 392.4  |
| 72.5° | 348.5  | 343.9  | 338.4  | 339.4  | 324.7  | 322.0  | 300.0  | 300.0  | 294.5  | 290.9  | 297.3  |
| 75°   | 266.2  | 264.3  | 267.1  | 262.5  | 247.0  | 230.5  | 217.7  | 205.8  | 187.5  | 180.2  | 176.5  |
| 77.5° | 168.3  | 173.8  | 180.2  | 170.1  | 163.7  | 151.8  | 139.0  | 127.1  | 112.5  | 104.3  | 104.3  |
| 80°   | 114.3  | 118.9  | 123.5  | 121.7  | 114.3  | 103.4  | 93.3   | 80.5   | 70.4   | 64.0   | 63.1   |
| 82.5° | 86.9   | 90.6   | 97.0   | 89.6   | 82.3   | 73.2   | 64.9   | 55.8   | 46.6   | 39.3   | 39.3   |
| 85°   | 31.1   | 35.7   | 39.3   | 43.0   | 45.7   | 46.6   | 40.2   | 32.9   | 26.5   | 21.0   | 20.1   |
| 87.5° | 8.2    | 9.1    | 10.1   | 9.1    | 9.1    | 9.1    | 10.1   | 9.1    | 8.2    | 6.4    | 6.4    |
| 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)