

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: STREETWORKS

Report Number: P319197

Luminaire Tested: **GAN-SA3B-830-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-830-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13766 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 124  
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



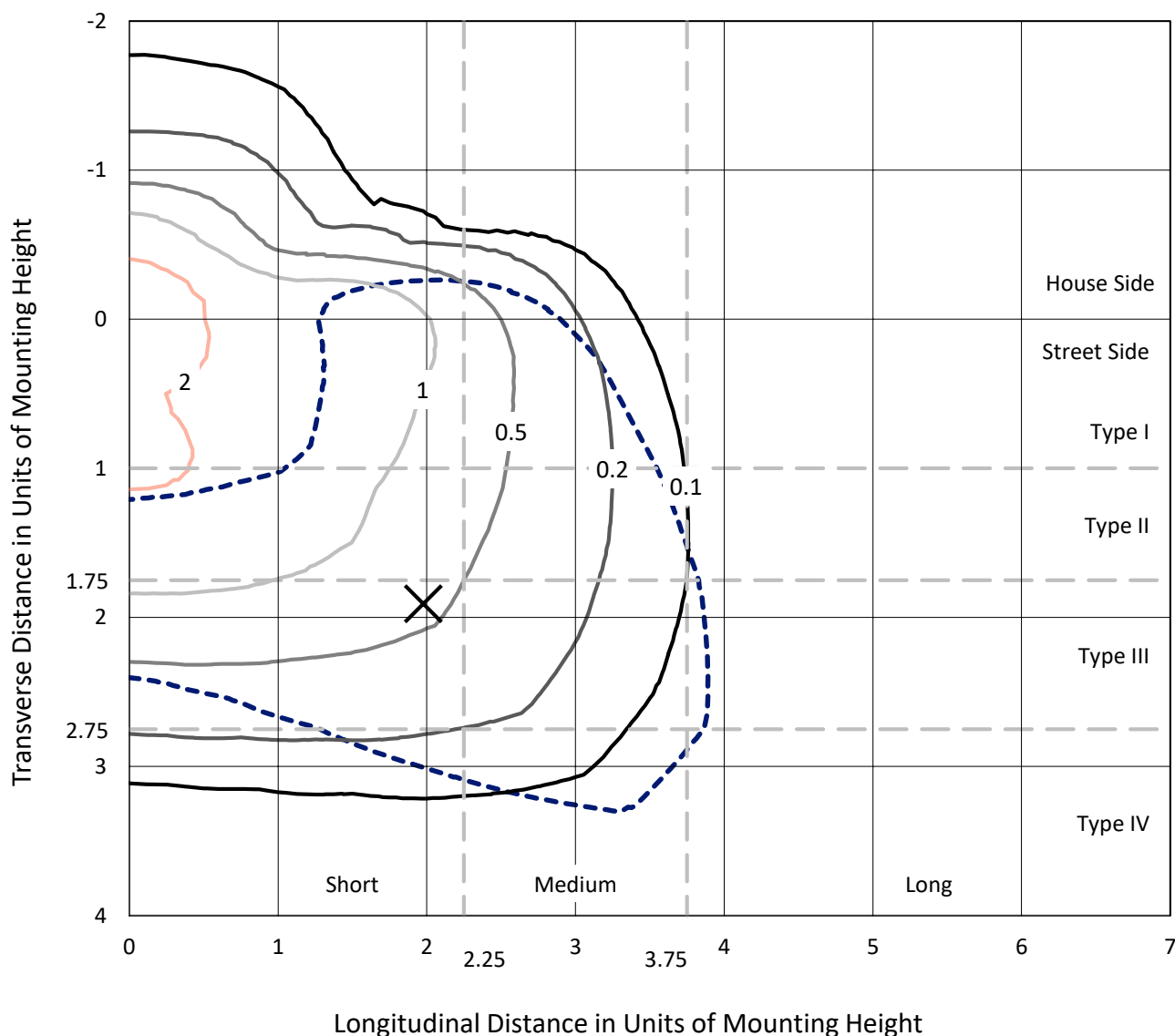
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

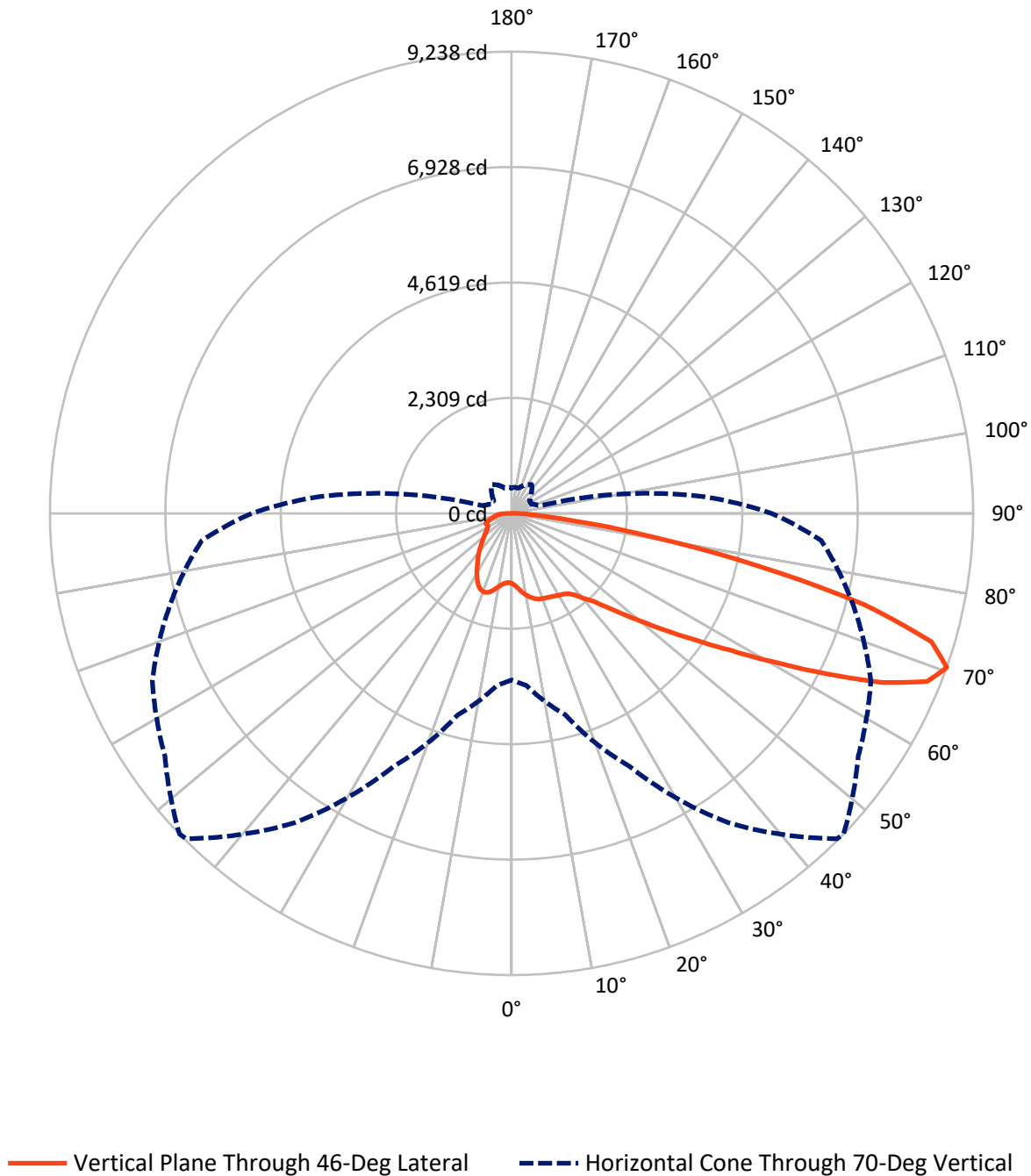


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3155.1   | 0.0    | 3155.1  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 10610.9  | 0.0    | 10610.9 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 13766.0  | 0.0    | 13766.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 143.0   | 1.0       |
| 10°-20°   | 476.3   | 3.5       |
| 20°-30°   | 794.2   | 5.8       |
| 30°-40°   | 1127.1  | 8.2       |
| 40°-50°   | 1657.9  | 12.0      |
| 50°-60°   | 2807.6  | 20.4      |
| 60°-70°   | 3985.4  | 29.0      |
| 70°-80°   | 2421.1  | 17.6      |
| 80°-90°   | 353.3   | 2.6       |
| 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°    | 13766.0 | 100.0     |
| 0°-180°   | 13766.0 | 100.0     |

**Coefficient of Utilization**



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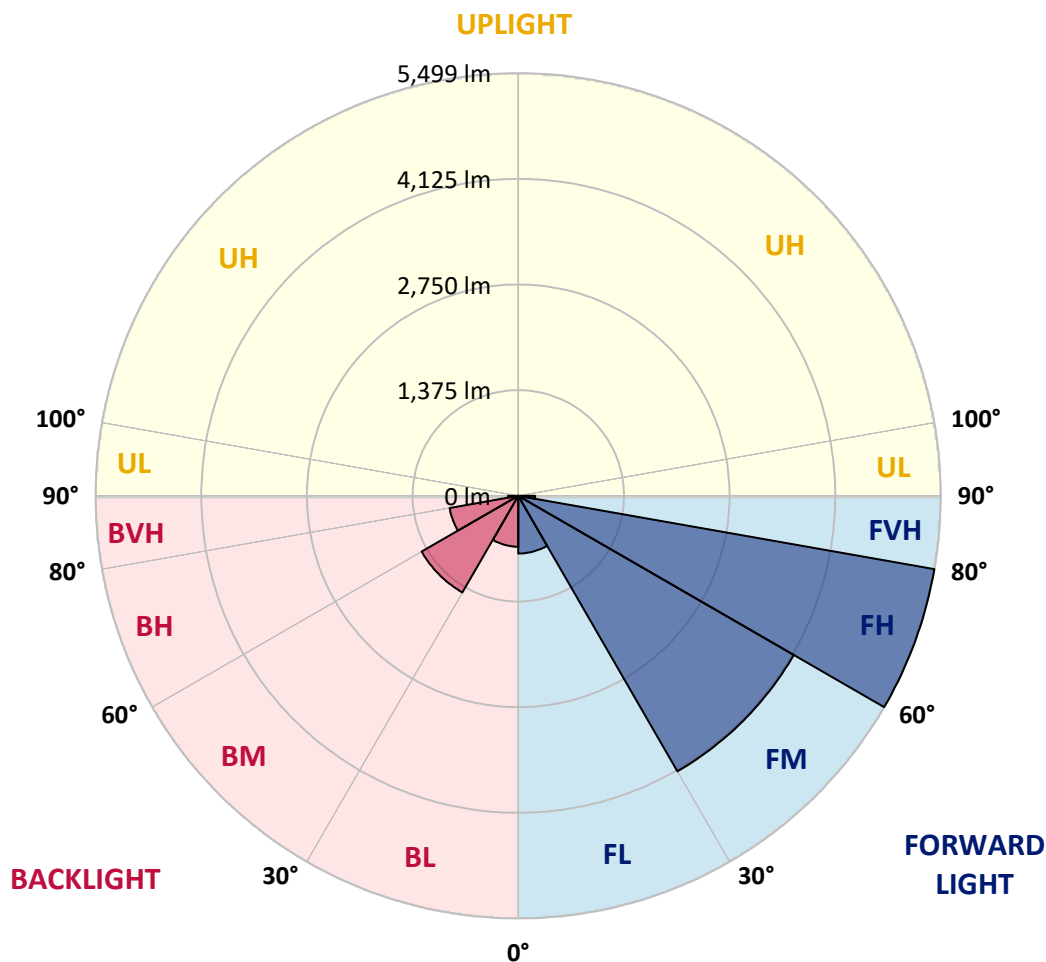
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 751.1  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 4140.2 | 30.1      |                         |      |         |
| FH   | (60°-80°)   | 5499.4 | 39.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 220.1  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 662.4  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1452.4 | 10.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 907.1  | 6.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 133.2  | 1.0       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 |
| 2.5°  | 1472.7 | 1473.6 | 1475.5 | 1470.8 | 1457.6 | 1453.8 | 1452.4 | 1438.8 | 1429.8 | 1416.6 | 1405.3 |
| 5°    | 1590.5 | 1591.4 | 1588.6 | 1575.4 | 1546.2 | 1524.5 | 1522.6 | 1491.5 | 1463.3 | 1433.1 | 1410.5 |
| 7.5°  | 1713.4 | 1714.8 | 1705.9 | 1680.9 | 1639.9 | 1602.2 | 1599.9 | 1557.5 | 1514.6 | 1468.9 | 1435.0 |
| 10°   | 1822.2 | 1816.6 | 1802.0 | 1767.1 | 1718.6 | 1672.4 | 1670.5 | 1626.3 | 1576.8 | 1521.7 | 1476.4 |
| 12.5° | 1894.8 | 1890.1 | 1871.2 | 1828.8 | 1775.6 | 1733.2 | 1729.4 | 1688.4 | 1640.4 | 1580.1 | 1525.9 |
| 15°   | 1934.8 | 1938.1 | 1912.7 | 1864.6 | 1812.8 | 1777.0 | 1773.7 | 1744.5 | 1701.6 | 1640.9 | 1578.7 |
| 17.5° | 1940.0 | 1942.8 | 1918.3 | 1870.8 | 1828.4 | 1803.9 | 1802.5 | 1783.1 | 1752.0 | 1693.6 | 1628.6 |
| 20°   | 1909.9 | 1911.8 | 1891.5 | 1852.4 | 1824.6 | 1817.1 | 1816.6 | 1808.1 | 1785.0 | 1733.2 | 1670.1 |
| 22.5° | 1866.1 | 1867.5 | 1852.9 | 1824.6 | 1815.2 | 1827.0 | 1830.3 | 1827.0 | 1810.5 | 1761.9 | 1702.6 |
| 25°   | 1855.2 | 1854.3 | 1839.2 | 1810.5 | 1818.5 | 1843.4 | 1847.7 | 1849.1 | 1837.8 | 1795.4 | 1744.0 |
| 27.5° | 1907.5 | 1904.2 | 1875.5 | 1829.3 | 1834.5 | 1864.6 | 1870.3 | 1884.0 | 1876.9 | 1839.7 | 1791.1 |
| 30°   | 2058.7 | 2053.1 | 1994.2 | 1900.9 | 1875.5 | 1891.0 | 1898.1 | 1919.8 | 1921.2 | 1890.1 | 1853.8 |
| 32.5° | 2314.1 | 2307.0 | 2201.5 | 2034.7 | 1944.7 | 1917.9 | 1924.5 | 1957.0 | 1974.4 | 1950.4 | 1911.3 |
| 35°   | 2636.8 | 2628.8 | 2490.3 | 2262.3 | 2060.6 | 1969.2 | 1973.9 | 1999.8 | 2034.7 | 2000.8 | 1949.0 |
| 37.5° | 2973.2 | 2953.8 | 2820.5 | 2529.8 | 2244.8 | 2079.0 | 2079.0 | 2082.3 | 2098.8 | 2028.1 | 1993.3 |
| 40°   | 3307.6 | 3288.3 | 3167.7 | 2844.5 | 2483.2 | 2251.9 | 2241.1 | 2168.0 | 2154.8 | 2094.1 | 2082.3 |
| 42.5° | 3618.6 | 3612.9 | 3541.8 | 3200.2 | 2763.0 | 2422.0 | 2406.9 | 2283.0 | 2285.8 | 2248.1 | 2248.6 |
| 45°   | 3949.3 | 3949.3 | 3891.3 | 3559.2 | 3089.0 | 2695.2 | 2680.1 | 2497.8 | 2526.1 | 2508.6 | 2550.6 |
| 47.5° | 4219.2 | 4227.7 | 4219.7 | 3933.3 | 3468.3 | 3042.4 | 3015.1 | 2795.5 | 2874.7 | 2934.5 | 3056.5 |
| 50°   | 4494.8 | 4508.0 | 4509.4 | 4343.6 | 3926.7 | 3455.1 | 3424.0 | 3190.8 | 3367.5 | 3539.0 | 3778.8 |
| 52.5° | 4894.8 | 4924.5 | 4806.2 | 4753.0 | 4488.2 | 3945.1 | 3914.4 | 3699.1 | 3994.0 | 4234.8 | 4647.9 |
| 55°   | 5265.6 | 5239.7 | 5155.3 | 5188.3 | 5089.4 | 4502.8 | 4479.8 | 4290.8 | 4692.2 | 5005.0 | 5541.6 |
| 57.5° | 5466.3 | 5464.4 | 5549.2 | 5690.5 | 5737.6 | 5190.7 | 5171.3 | 4987.6 | 5479.4 | 5714.5 | 6380.7 |
| 60°   | 5701.8 | 5705.1 | 5915.2 | 6236.0 | 6430.1 | 6047.1 | 6038.7 | 5899.2 | 6244.1 | 6376.9 | 7038.8 |
| 62.5° | 5734.8 | 5794.1 | 6156.0 | 6708.1 | 7078.4 | 7047.8 | 7066.6 | 6720.3 | 6928.1 | 6905.5 | 7530.2 |
| 65°   | 5355.5 | 5433.7 | 6088.6 | 6850.8 | 7722.9 | 8142.1 | 8159.6 | 7546.2 | 7467.5 | 7357.3 | 7705.9 |
| 67.5° | 4578.2 | 4694.1 | 5405.5 | 6540.4 | 7935.3 | 8951.0 | 8975.5 | 8186.4 | 7915.1 | 7510.4 | 7282.8 |
| 70°   | 3331.7 | 3460.3 | 4176.4 | 5585.9 | 7556.6 | 9209.7 | 9237.5 | 8469.6 | 7932.0 | 7074.6 | 6217.2 |
| 72.5° | 2012.6 | 2113.4 | 2703.7 | 4112.3 | 6377.8 | 8738.6 | 8788.0 | 8110.6 | 7241.9 | 5992.5 | 4590.9 |
| 75°   | 883.8  | 949.8  | 1307.3 | 2369.7 | 4566.0 | 7230.1 | 7291.8 | 6942.2 | 5884.1 | 4354.9 | 2713.6 |
| 77.5° | 376.4  | 395.3  | 536.1  | 1029.4 | 2581.2 | 4940.5 | 5025.3 | 5072.4 | 3992.2 | 2369.7 | 1146.7 |
| 80°   | 234.6  | 242.1  | 303.4  | 465.9  | 1207.9 | 2774.8 | 2866.2 | 2984.5 | 1982.4 | 871.1  | 400.4  |
| 82.5° | 142.7  | 151.2  | 201.6  | 281.7  | 628.9  | 1257.9 | 1301.7 | 1385.1 | 769.3  | 376.4  | 207.3  |
| 85°   | 85.7   | 91.9   | 123.4  | 178.1  | 358.0  | 494.7  | 494.2  | 546.5  | 362.3  | 242.1  | 109.3  |
| 87.5° | 41.0   | 45.7   | 66.0   | 92.3   | 180.4  | 185.6  | 173.8  | 196.9  | 220.0  | 158.8  | 55.1   |
| 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°    | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 | 1402.5 |
| 2.5°  | 1401.5 | 1399.7 | 1393.5 | 1388.8 | 1387.9 | 1385.1 | 1382.7 | 1384.1 | 1386.0 | 1386.5 | 1386.5 |
| 5°    | 1401.1 | 1395.9 | 1387.9 | 1384.6 | 1388.8 | 1394.5 | 1401.5 | 1411.0 | 1416.6 | 1420.9 | 1423.7 |
| 7.5°  | 1423.7 | 1413.8 | 1404.8 | 1403.0 | 1411.4 | 1426.5 | 1442.5 | 1462.3 | 1476.0 | 1485.4 | 1487.3 |
| 10°   | 1461.4 | 1449.1 | 1440.2 | 1442.1 | 1457.1 | 1478.8 | 1501.4 | 1526.9 | 1547.6 | 1560.3 | 1561.2 |
| 12.5° | 1504.7 | 1492.9 | 1484.5 | 1492.5 | 1517.4 | 1543.8 | 1567.4 | 1589.5 | 1608.4 | 1621.1 | 1621.1 |
| 15°   | 1554.7 | 1546.2 | 1536.3 | 1554.7 | 1588.6 | 1612.1 | 1622.0 | 1632.9 | 1643.2 | 1652.6 | 1650.8 |
| 17.5° | 1602.7 | 1594.7 | 1589.5 | 1611.2 | 1646.5 | 1657.4 | 1650.8 | 1642.8 | 1642.8 | 1647.9 | 1648.9 |
| 20°   | 1644.2 | 1637.1 | 1640.4 | 1661.6 | 1680.0 | 1668.7 | 1644.2 | 1618.7 | 1608.4 | 1611.2 | 1614.0 |
| 22.5° | 1680.4 | 1677.1 | 1687.0 | 1696.9 | 1683.7 | 1644.2 | 1598.9 | 1564.5 | 1551.8 | 1550.9 | 1551.8 |
| 25°   | 1722.8 | 1722.4 | 1734.6 | 1716.7 | 1658.3 | 1585.3 | 1524.5 | 1491.1 | 1484.0 | 1489.6 | 1499.1 |
| 27.5° | 1775.6 | 1780.8 | 1786.9 | 1721.4 | 1606.5 | 1496.2 | 1434.5 | 1411.4 | 1418.5 | 1432.2 | 1441.1 |
| 30°   | 1843.0 | 1857.1 | 1843.9 | 1709.6 | 1532.0 | 1394.5 | 1335.6 | 1329.0 | 1348.3 | 1367.6 | 1377.0 |
| 32.5° | 1908.5 | 1930.6 | 1898.6 | 1679.0 | 1435.9 | 1286.6 | 1240.9 | 1239.0 | 1262.6 | 1281.4 | 1294.6 |
| 35°   | 1961.2 | 2005.0 | 1939.5 | 1618.3 | 1324.8 | 1187.2 | 1153.7 | 1141.0 | 1149.5 | 1171.6 | 1186.7 |
| 37.5° | 2030.0 | 2103.0 | 1967.8 | 1525.4 | 1204.1 | 1105.2 | 1066.1 | 1036.9 | 1029.4 | 1038.3 | 1045.9 |
| 40°   | 2155.8 | 2252.4 | 1981.0 | 1395.9 | 1086.4 | 1023.2 | 983.7  | 940.8  | 911.1  | 889.5  | 889.9  |
| 42.5° | 2361.2 | 2446.9 | 1972.5 | 1238.5 | 977.5  | 943.2  | 898.4  | 848.9  | 800.9  | 751.9  | 748.1  |
| 45°   | 2694.7 | 2736.2 | 1947.1 | 1071.8 | 881.9  | 859.3  | 817.4  | 767.9  | 703.8  | 648.2  | 643.1  |
| 47.5° | 3228.5 | 3136.6 | 1907.5 | 926.2  | 797.6  | 788.2  | 749.5  | 692.5  | 624.7  | 579.9  | 576.2  |
| 50°   | 3956.4 | 3714.7 | 1888.2 | 810.3  | 723.1  | 726.0  | 694.4  | 634.1  | 570.0  | 537.1  | 533.3  |
| 52.5° | 4827.0 | 4387.9 | 1925.4 | 720.8  | 663.3  | 673.2  | 649.7  | 593.1  | 539.4  | 513.5  | 509.7  |
| 55°   | 5730.1 | 5085.1 | 1965.5 | 655.8  | 606.8  | 626.1  | 618.1  | 571.5  | 522.9  | 498.9  | 495.6  |
| 57.5° | 6503.2 | 5605.7 | 1885.4 | 603.0  | 556.4  | 586.5  | 593.6  | 557.8  | 514.4  | 492.8  | 489.0  |
| 60°   | 6989.8 | 5815.3 | 1675.3 | 553.6  | 516.3  | 555.0  | 579.5  | 554.0  | 517.7  | 515.9  | 513.0  |
| 62.5° | 7220.7 | 5797.0 | 1360.1 | 514.4  | 491.4  | 541.3  | 589.8  | 575.2  | 555.4  | 572.4  | 573.8  |
| 65°   | 7117.0 | 5520.0 | 1012.9 | 488.5  | 473.5  | 546.5  | 620.9  | 615.3  | 566.3  | 583.2  | 585.6  |
| 67.5° | 6434.9 | 4859.0 | 750.0  | 465.9  | 453.7  | 561.1  | 677.5  | 628.5  | 545.1  | 557.3  | 549.8  |
| 70°   | 5201.0 | 3852.2 | 578.5  | 440.5  | 433.4  | 559.2  | 702.9  | 620.4  | 522.0  | 524.8  | 504.6  |
| 72.5° | 3586.5 | 2626.9 | 470.6  | 416.9  | 404.2  | 509.7  | 685.0  | 600.7  | 502.7  | 481.0  | 454.1  |
| 75°   | 1950.4 | 1410.0 | 400.0  | 392.4  | 352.9  | 447.6  | 652.0  | 586.5  | 485.2  | 456.5  | 441.4  |
| 77.5° | 767.4  | 585.1  | 347.2  | 359.0  | 308.6  | 395.3  | 615.3  | 559.7  | 461.2  | 423.5  | 416.0  |
| 80°   | 313.3  | 298.7  | 287.8  | 310.5  | 265.2  | 345.8  | 571.0  | 528.1  | 432.5  | 392.9  | 377.8  |
| 82.5° | 177.6  | 185.6  | 223.8  | 245.0  | 215.3  | 318.5  | 549.8  | 502.7  | 398.1  | 351.9  | 334.0  |
| 85°   | 90.9   | 108.8  | 155.9  | 175.7  | 158.3  | 270.9  | 506.4  | 440.0  | 319.4  | 269.5  | 270.9  |
| 87.5° | 43.8   | 60.8   | 98.5   | 110.2  | 102.7  | 196.0  | 378.3  | 318.9  | 248.7  | 196.9  | 190.8  |
| 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)