

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: P649195

Luminaire Tested: **GLAN-SA1D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1D-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5194.4 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

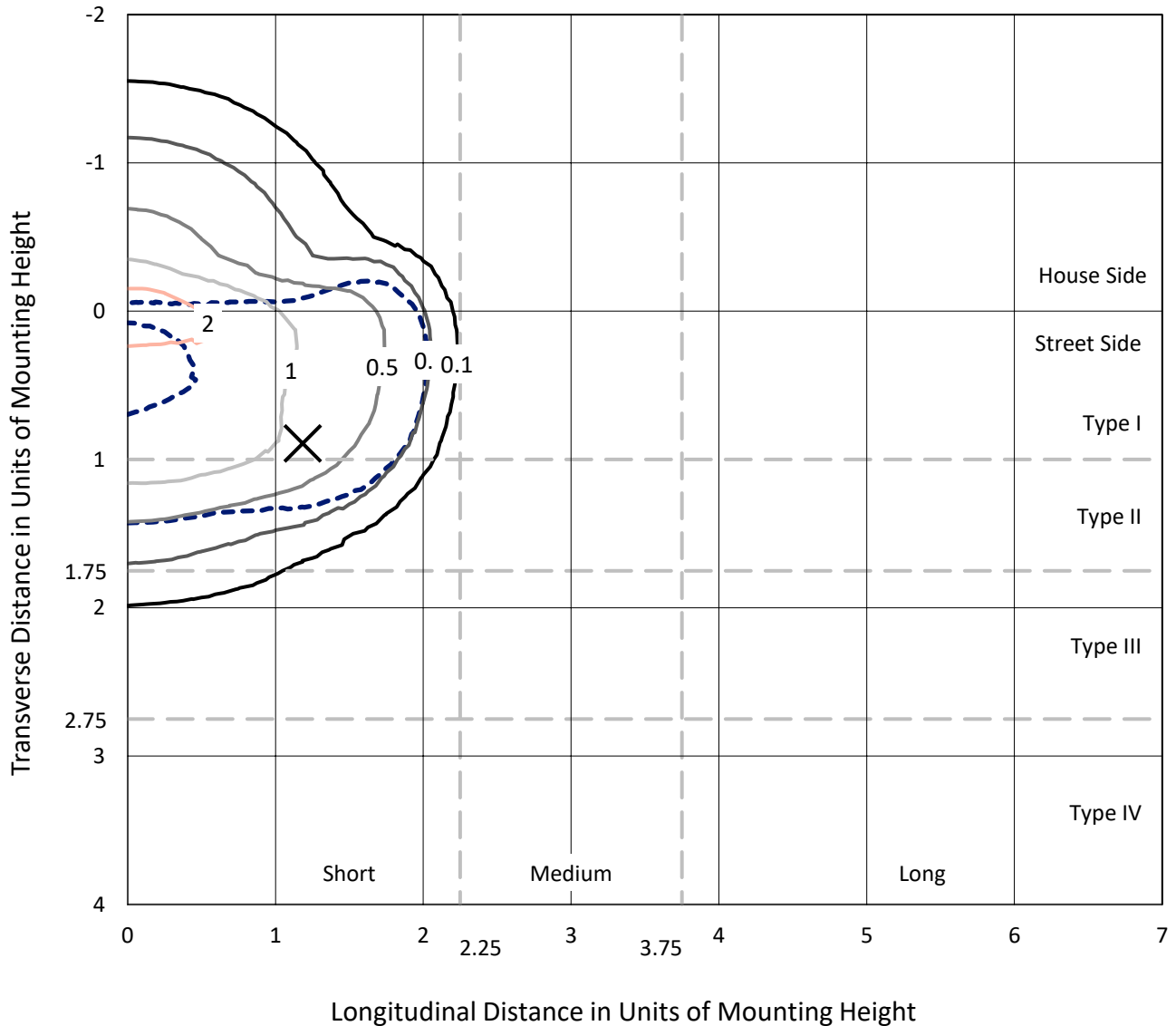
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

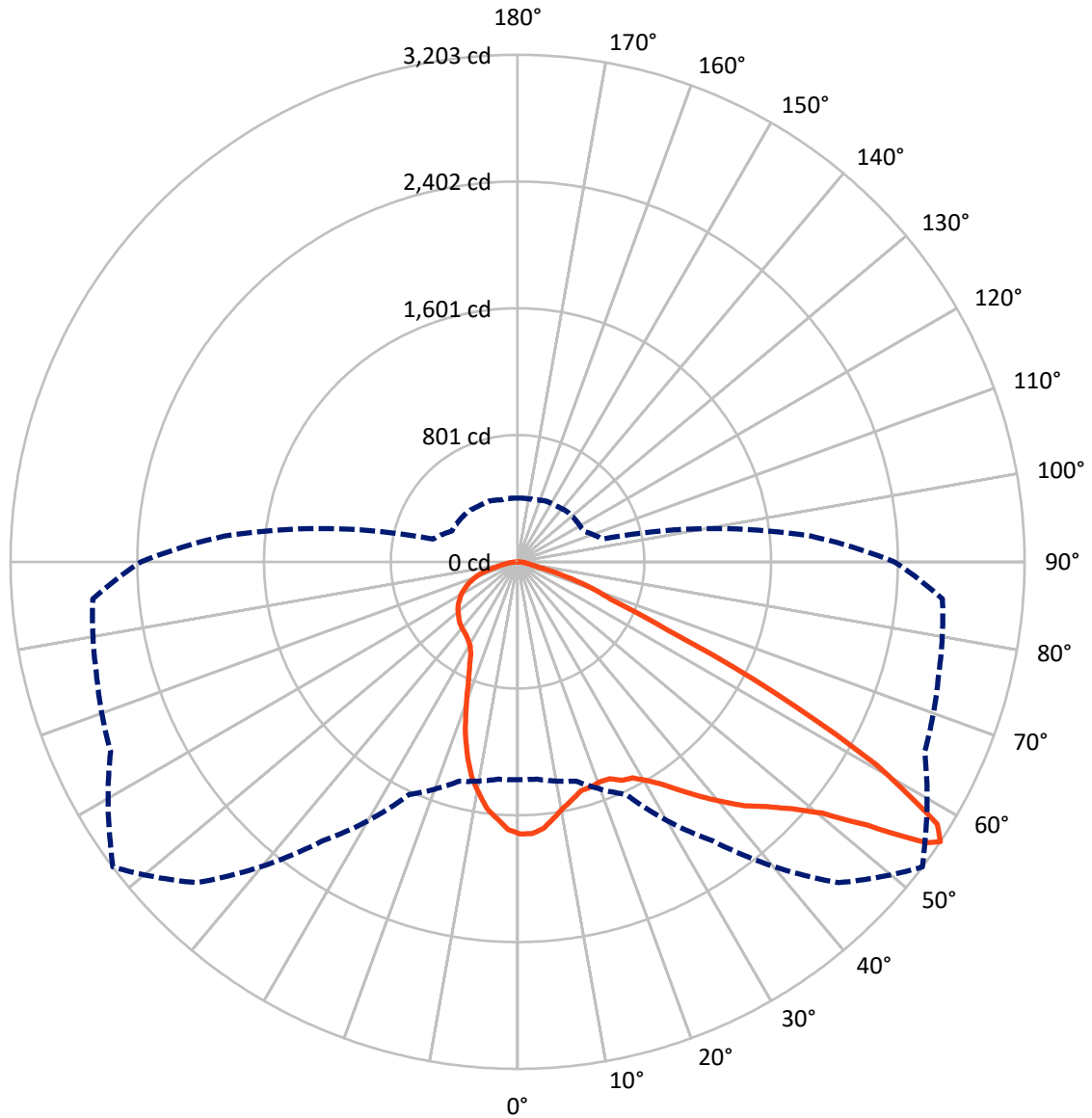
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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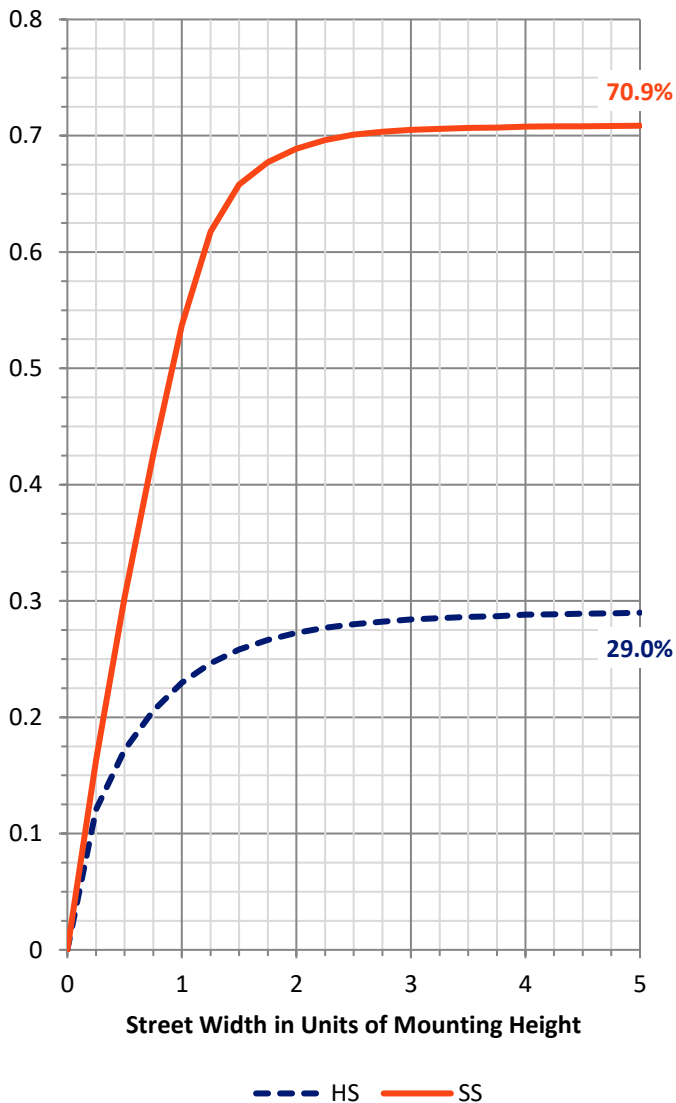
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1515.8   | 0.0    | 1515.8 |
|                    | % Fixture | 29.2     | 0.0    | 29.2   |
| <b>Street Side</b> | Lumens    | 3678.6   | 0.0    | 3678.6 |
|                    | % Fixture | 70.8     | 0.0    | 70.8   |
| <b>Total</b>       | Lumens    | 5194.4   | 0.0    | 5194.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 152.1  | 2.9       |
| 10°-20°   | 380.0  | 7.3       |
| 20°-30°   | 560.3  | 10.8      |
| 30°-40°   | 800.6  | 15.4      |
| 40°-50°   | 1101.9 | 21.2      |
| 50°-60°   | 1302.1 | 25.1      |
| 60°-70°   | 693.9  | 13.4      |
| 70°-80°   | 176.0  | 3.4       |
| 80°-90°   | 27.4   | 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°    | 5194.4 | 100.0     |
| 0°-180°   | 5194.4 | 100.0     |

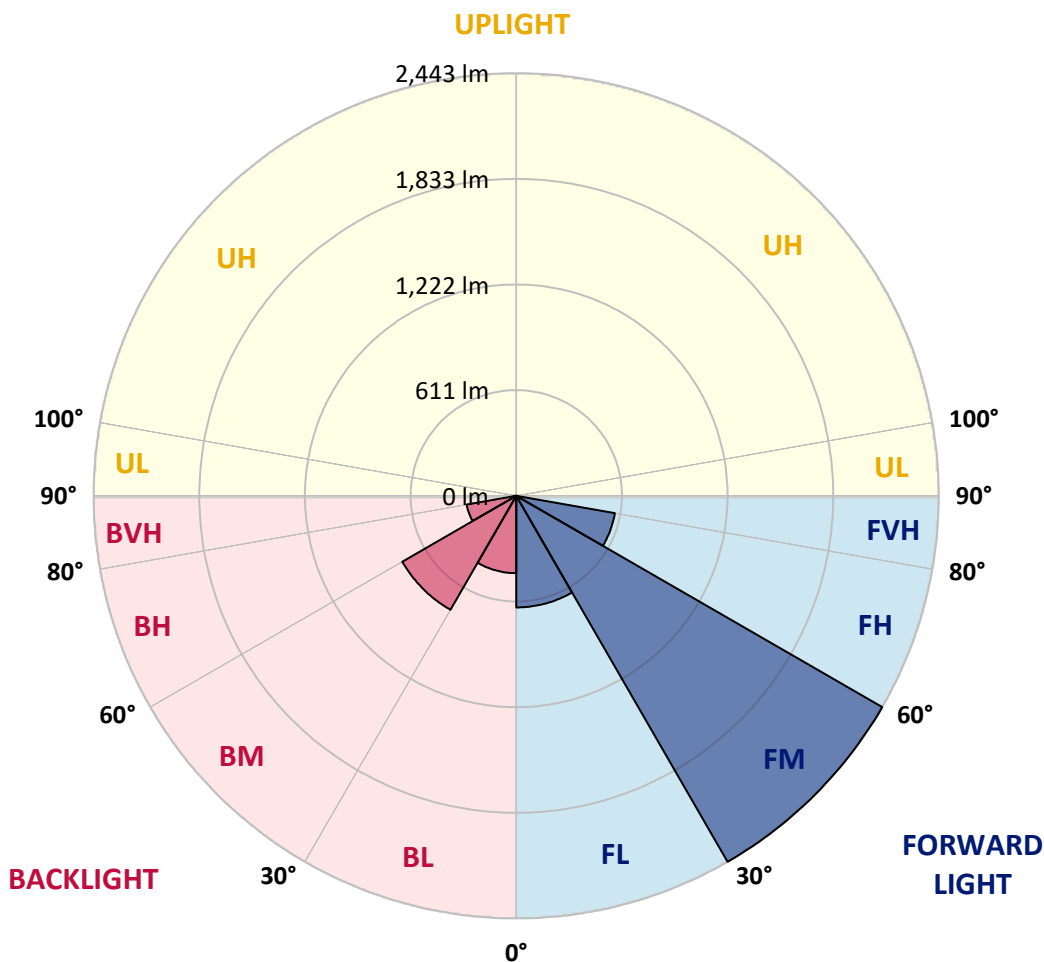


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 645.3  | 12.4      |                         |      |        |
| FM (30°-60°)   | 2443.4 | 47.0      |                         |      |        |
| FH (60°-80°)   | 578.9  | 11.1      |                         |      | G0/660 |
| FVH (80°-90°)  | 11.0   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 447.1  | 8.6       | B1/500                  |      |        |
| BM (30°-60°)   | 761.2  | 14.7      | B1/1000                 |      |        |
| BH (60°-80°)   | 291.1  | 5.6       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 16.4   | 0.3       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 |
| 2.5°  | 1697.2 | 1682.5 | 1691.2 | 1687.8 | 1715.2 | 1723.1 | 1719.2 | 1722.5 | 1737.9 | 1730.5 | 1715.2 |
| 5°    | 1585.9 | 1606.6 | 1610.6 | 1620.6 | 1636.5 | 1667.9 | 1692.5 | 1699.2 | 1706.5 | 1740.5 | 1737.2 |
| 7.5°  | 1484.6 | 1498.7 | 1491.3 | 1520.6 | 1555.3 | 1605.9 | 1635.9 | 1641.2 | 1708.5 | 1727.2 | 1741.2 |
| 10°   | 1420.7 | 1406.7 | 1440.0 | 1448.0 | 1487.3 | 1545.3 | 1581.3 | 1603.3 | 1664.6 | 1738.5 | 1747.2 |
| 12.5° | 1361.3 | 1356.7 | 1376.7 | 1399.3 | 1443.3 | 1503.3 | 1539.9 | 1548.6 | 1643.2 | 1721.2 | 1761.8 |
| 15°   | 1317.4 | 1312.1 | 1332.0 | 1348.7 | 1400.0 | 1453.3 | 1500.0 | 1524.6 | 1619.9 | 1711.2 | 1749.1 |
| 17.5° | 1282.7 | 1282.1 | 1293.4 | 1323.3 | 1376.0 | 1420.7 | 1495.9 | 1497.3 | 1607.9 | 1726.5 | 1759.9 |
| 20°   | 1280.8 | 1280.0 | 1282.1 | 1315.4 | 1363.4 | 1418.0 | 1483.3 | 1495.3 | 1607.9 | 1715.9 | 1760.5 |
| 22.5° | 1297.4 | 1286.7 | 1298.7 | 1320.1 | 1354.7 | 1422.6 | 1487.9 | 1514.6 | 1646.6 | 1768.5 | 1790.5 |
| 25°   | 1324.1 | 1326.7 | 1333.4 | 1340.7 | 1360.7 | 1433.4 | 1529.3 | 1551.3 | 1691.8 | 1813.8 | 1831.8 |
| 27.5° | 1372.7 | 1371.3 | 1374.0 | 1378.0 | 1395.3 | 1443.3 | 1546.0 | 1602.6 | 1786.5 | 1894.5 | 1876.5 |
| 30°   | 1444.0 | 1439.3 | 1450.0 | 1464.0 | 1448.0 | 1475.3 | 1601.2 | 1643.9 | 1874.4 | 1975.7 | 1926.4 |
| 32.5° | 1508.6 | 1525.9 | 1546.0 | 1551.9 | 1532.6 | 1538.0 | 1674.5 | 1717.8 | 1947.7 | 2075.7 | 1987.7 |
| 35°   | 1589.3 | 1603.3 | 1629.9 | 1648.5 | 1645.2 | 1629.3 | 1774.5 | 1831.8 | 2053.7 | 2148.9 | 2052.4 |
| 37.5° | 1667.9 | 1684.5 | 1728.6 | 1783.8 | 1753.1 | 1745.9 | 1881.1 | 1928.5 | 2086.4 | 2188.3 | 2099.7 |
| 40°   | 1794.5 | 1793.9 | 1869.8 | 1898.5 | 1925.8 | 1913.1 | 1991.7 | 2007.7 | 2103.7 | 2179.6 | 2101.0 |
| 42.5° | 1943.1 | 1933.8 | 2011.1 | 2055.7 | 2091.0 | 2092.3 | 2107.0 | 2101.7 | 2111.7 | 2135.6 | 2087.0 |
| 45°   | 2084.3 | 2104.3 | 2182.3 | 2262.2 | 2297.6 | 2301.6 | 2204.3 | 2194.3 | 2125.7 | 2123.0 | 2060.4 |
| 47.5° | 2256.9 | 2261.6 | 2325.6 | 2430.8 | 2512.8 | 2484.9 | 2330.2 | 2308.2 | 2187.0 | 2207.6 | 2105.0 |
| 50°   | 2266.9 | 2301.6 | 2358.9 | 2482.8 | 2734.7 | 2727.3 | 2493.5 | 2452.2 | 2285.6 | 2327.5 | 2229.6 |
| 52.5° | 2057.7 | 2049.7 | 2117.7 | 2320.3 | 2718.0 | 2968.6 | 2764.0 | 2665.4 | 2497.5 | 2465.5 | 2431.5 |
| 55°   | 1568.0 | 1586.6 | 1646.6 | 1851.1 | 2360.2 | 2972.0 | 3132.5 | 3051.9 | 2724.1 | 2669.4 | 2630.1 |
| 56°   | 1375.3 | 1378.0 | 1434.7 | 1621.2 | 2153.6 | 2866.0 | 3202.5 | 3137.2 | 2836.7 | 2753.3 | 2693.4 |
| 57.5° | 1140.1 | 1124.8 | 1154.1 | 1256.1 | 1817.8 | 2642.1 | 3125.8 | 3189.8 | 2968.6 | 2844.0 | 2760.7 |
| 60°   | 897.6  | 894.3  | 882.3  | 900.9  | 1148.8 | 1990.4 | 2602.1 | 2746.1 | 2955.3 | 2758.7 | 2644.1 |
| 62.5° | 733.0  | 716.3  | 740.3  | 766.9  | 798.3  | 1234.7 | 1828.5 | 1913.1 | 2346.3 | 2202.3 | 1986.4 |
| 65°   | 568.4  | 560.4  | 590.4  | 677.0  | 695.7  | 784.3  | 1041.5 | 1106.8 | 1385.4 | 1360.7 | 1198.1 |
| 67.5° | 391.2  | 392.5  | 418.4  | 550.4  | 645.0  | 637.0  | 637.7  | 671.7  | 723.0  | 537.1  | 467.8  |
| 70°   | 247.9  | 247.2  | 261.2  | 354.5  | 519.1  | 524.5  | 497.8  | 487.7  | 462.4  | 279.8  | 296.5  |
| 72.5° | 159.3  | 154.6  | 161.9  | 195.9  | 268.6  | 310.5  | 319.9  | 325.9  | 267.9  | 219.9  | 238.6  |
| 75°   | 90.0   | 85.3   | 82.6   | 91.3   | 105.9  | 122.6  | 134.6  | 138.6  | 155.3  | 166.6  | 176.6  |
| 77.5° | 27.3   | 24.7   | 30.0   | 40.0   | 52.6   | 70.6   | 86.0   | 88.6   | 104.6  | 117.9  | 127.9  |
| 80°   | 12.0   | 13.3   | 18.6   | 26.6   | 37.3   | 50.0   | 60.6   | 64.6   | 75.3   | 85.3   | 87.9   |
| 82.5° | 7.4    | 8.0    | 12.7   | 18.0   | 26.0   | 35.3   | 43.3   | 44.6   | 55.3   | 63.3   | 65.3   |
| 85°   | 2.7    | 3.4    | 6.7    | 10.6   | 16.7   | 22.6   | 22.6   | 24.7   | 22.6   | 22.6   | 24.7   |
| 87.5° | 0.0    | 0.0    | 0.7    | 1.3    | 1.3    | 2.0    | 2.7    | 2.7    | 3.4    | 4.0    | 4.7    |
| 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°    | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 | 1718.5 |
| 2.5°  | 1723.1 | 1719.9 | 1714.5 | 1695.2 | 1693.2 | 1687.2 | 1653.9 | 1648.5 | 1653.9 | 1637.9 | 1639.2 |
| 5°    | 1719.9 | 1729.9 | 1689.9 | 1670.5 | 1634.6 | 1608.6 | 1578.6 | 1563.3 | 1535.9 | 1518.6 | 1538.0 |
| 7.5°  | 1734.5 | 1730.5 | 1680.6 | 1638.6 | 1584.6 | 1518.6 | 1466.0 | 1436.0 | 1388.0 | 1374.7 | 1384.7 |
| 10°   | 1729.2 | 1707.9 | 1649.2 | 1593.9 | 1491.9 | 1434.0 | 1348.7 | 1266.0 | 1220.8 | 1197.4 | 1194.1 |
| 12.5° | 1721.8 | 1715.9 | 1617.9 | 1522.6 | 1415.4 | 1293.4 | 1173.5 | 1095.5 | 1021.5 | 989.6  | 994.2  |
| 15°   | 1730.5 | 1679.8 | 1559.3 | 1438.7 | 1296.0 | 1136.1 | 1006.9 | 906.2  | 855.0  | 834.3  | 834.3  |
| 17.5° | 1726.5 | 1662.5 | 1531.3 | 1344.7 | 1164.1 | 974.8  | 833.0  | 772.3  | 751.0  | 751.0  | 757.0  |
| 20°   | 1728.6 | 1673.9 | 1474.6 | 1250.8 | 1008.2 | 821.0  | 717.7  | 695.7  | 705.0  | 708.3  | 711.7  |
| 22.5° | 1739.8 | 1636.5 | 1419.3 | 1147.5 | 863.6  | 702.4  | 651.7  | 652.4  | 669.0  | 687.0  | 683.6  |
| 25°   | 1753.8 | 1621.9 | 1352.0 | 1044.8 | 753.0  | 644.3  | 628.4  | 626.4  | 639.0  | 648.3  | 649.7  |
| 27.5° | 1741.9 | 1596.6 | 1283.4 | 916.9  | 662.3  | 605.7  | 602.4  | 603.7  | 607.7  | 626.4  | 620.4  |
| 30°   | 1781.2 | 1603.9 | 1197.4 | 809.6  | 612.4  | 593.0  | 589.1  | 587.1  | 593.0  | 598.4  | 593.7  |
| 32.5° | 1829.8 | 1577.9 | 1133.5 | 706.3  | 587.7  | 583.7  | 575.7  | 573.1  | 576.4  | 571.0  | 573.7  |
| 35°   | 1851.1 | 1573.3 | 1050.2 | 632.4  | 568.4  | 565.1  | 560.4  | 559.8  | 560.4  | 555.8  | 551.7  |
| 37.5° | 1863.1 | 1595.2 | 954.9  | 598.4  | 556.4  | 559.8  | 549.0  | 547.7  | 535.7  | 538.4  | 540.4  |
| 40°   | 1883.7 | 1561.2 | 877.6  | 565.7  | 549.0  | 542.4  | 533.1  | 531.1  | 523.1  | 518.4  | 523.1  |
| 42.5° | 1853.8 | 1551.3 | 801.6  | 551.7  | 538.4  | 531.1  | 524.5  | 513.1  | 510.4  | 506.4  | 503.8  |
| 45°   | 1829.8 | 1494.0 | 733.7  | 534.4  | 525.8  | 521.8  | 509.1  | 497.1  | 487.1  | 491.1  | 485.1  |
| 47.5° | 1847.8 | 1474.0 | 666.3  | 519.8  | 508.4  | 503.8  | 491.1  | 481.8  | 471.8  | 467.1  | 465.8  |
| 50°   | 1919.8 | 1511.3 | 609.7  | 509.1  | 493.8  | 491.1  | 474.4  | 463.8  | 454.5  | 451.1  | 452.4  |
| 52.5° | 2091.7 | 1613.2 | 571.0  | 487.1  | 479.7  | 467.8  | 458.4  | 445.1  | 439.1  | 428.5  | 435.1  |
| 55°   | 2309.5 | 1779.1 | 561.1  | 466.4  | 462.4  | 451.8  | 439.1  | 429.2  | 417.8  | 409.1  | 407.2  |
| 56°   | 2379.5 | 1858.5 | 553.0  | 458.4  | 451.8  | 445.8  | 429.2  | 423.1  | 405.1  | 403.2  | 401.8  |
| 57.5° | 2436.1 | 1928.5 | 554.4  | 443.1  | 436.4  | 431.1  | 421.1  | 406.5  | 394.5  | 387.1  | 390.5  |
| 60°   | 2308.2 | 1805.1 | 529.1  | 419.8  | 418.4  | 408.5  | 394.5  | 387.8  | 373.2  | 364.5  | 362.5  |
| 62.5° | 1715.9 | 1225.4 | 429.2  | 389.8  | 389.2  | 378.5  | 362.5  | 355.2  | 352.5  | 340.5  | 340.5  |
| 65°   | 988.2  | 768.3  | 371.1  | 365.2  | 359.9  | 349.1  | 333.2  | 327.2  | 320.5  | 316.5  | 313.2  |
| 67.5° | 421.8  | 398.5  | 337.2  | 336.5  | 330.5  | 317.2  | 301.2  | 291.8  | 283.2  | 275.2  | 279.2  |
| 70°   | 305.8  | 310.5  | 304.5  | 301.2  | 293.9  | 277.2  | 263.2  | 251.9  | 238.6  | 233.3  | 237.2  |
| 72.5° | 242.6  | 252.5  | 261.2  | 261.9  | 253.2  | 233.9  | 218.5  | 203.3  | 188.5  | 181.3  | 184.6  |
| 75°   | 183.9  | 190.6  | 199.3  | 201.2  | 188.5  | 175.2  | 160.6  | 144.6  | 133.3  | 124.6  | 125.9  |
| 77.5° | 132.6  | 131.3  | 139.3  | 138.0  | 131.9  | 122.6  | 109.3  | 94.6   | 82.0   | 74.0   | 74.6   |
| 80°   | 90.6   | 92.6   | 97.2   | 96.6   | 89.3   | 83.3   | 73.3   | 61.3   | 52.0   | 45.3   | 44.0   |
| 82.5° | 63.3   | 66.6   | 70.6   | 67.3   | 61.3   | 55.3   | 48.0   | 39.3   | 31.9   | 26.6   | 25.3   |
| 85°   | 22.6   | 26.0   | 30.0   | 31.9   | 34.0   | 32.7   | 27.3   | 22.0   | 16.0   | 13.3   | 12.7   |
| 87.5° | 4.7    | 5.3    | 6.0    | 6.0    | 6.0    | 5.3    | 4.7    | 4.7    | 4.0    | 2.0    | 2.0    |
| 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)