

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: P266877

Luminaire Tested: **GAN-AF-04-LED-U-T4W-7027-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-T4W-7027-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13648.5 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 129  
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: 28.75 FT

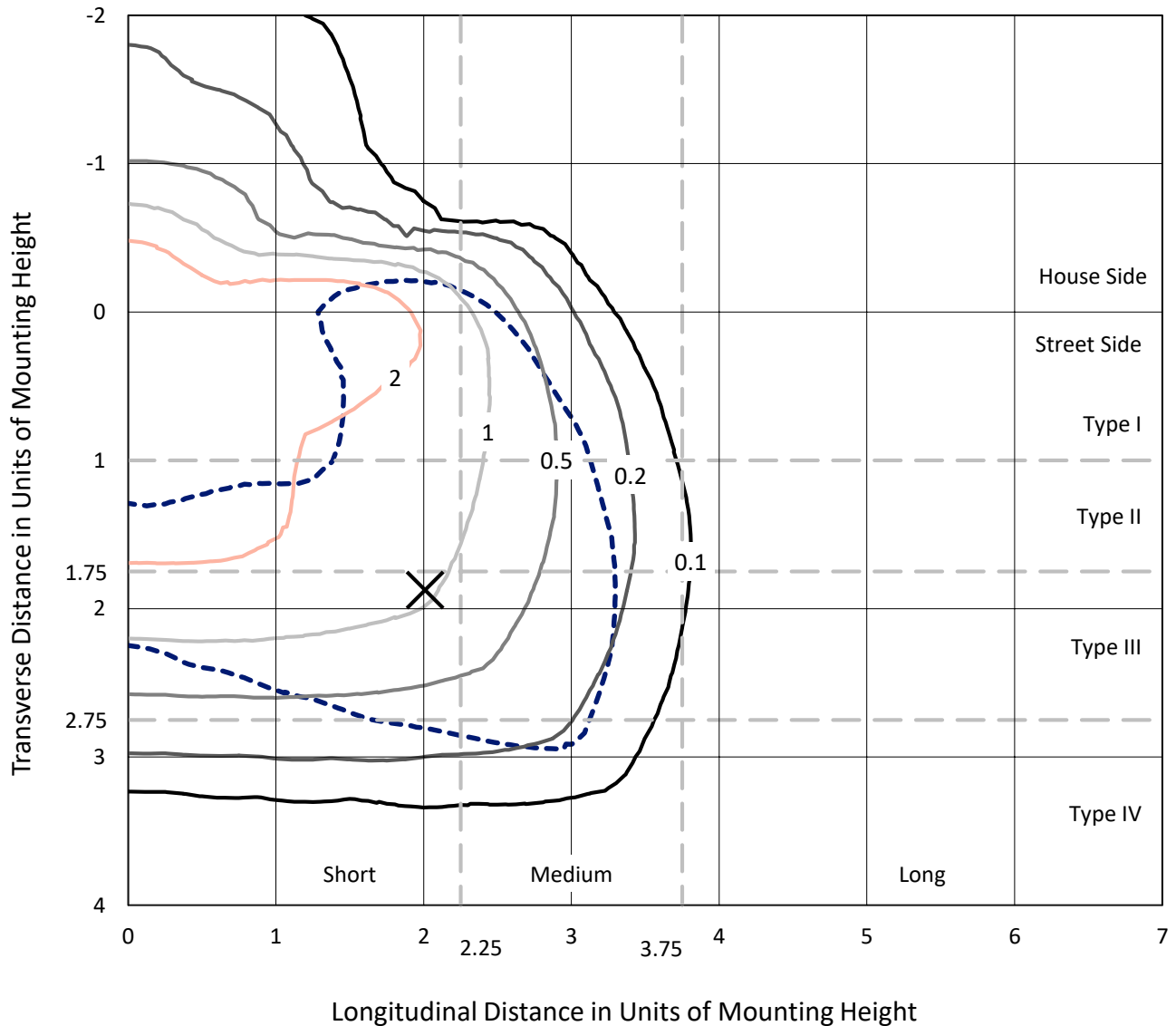


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

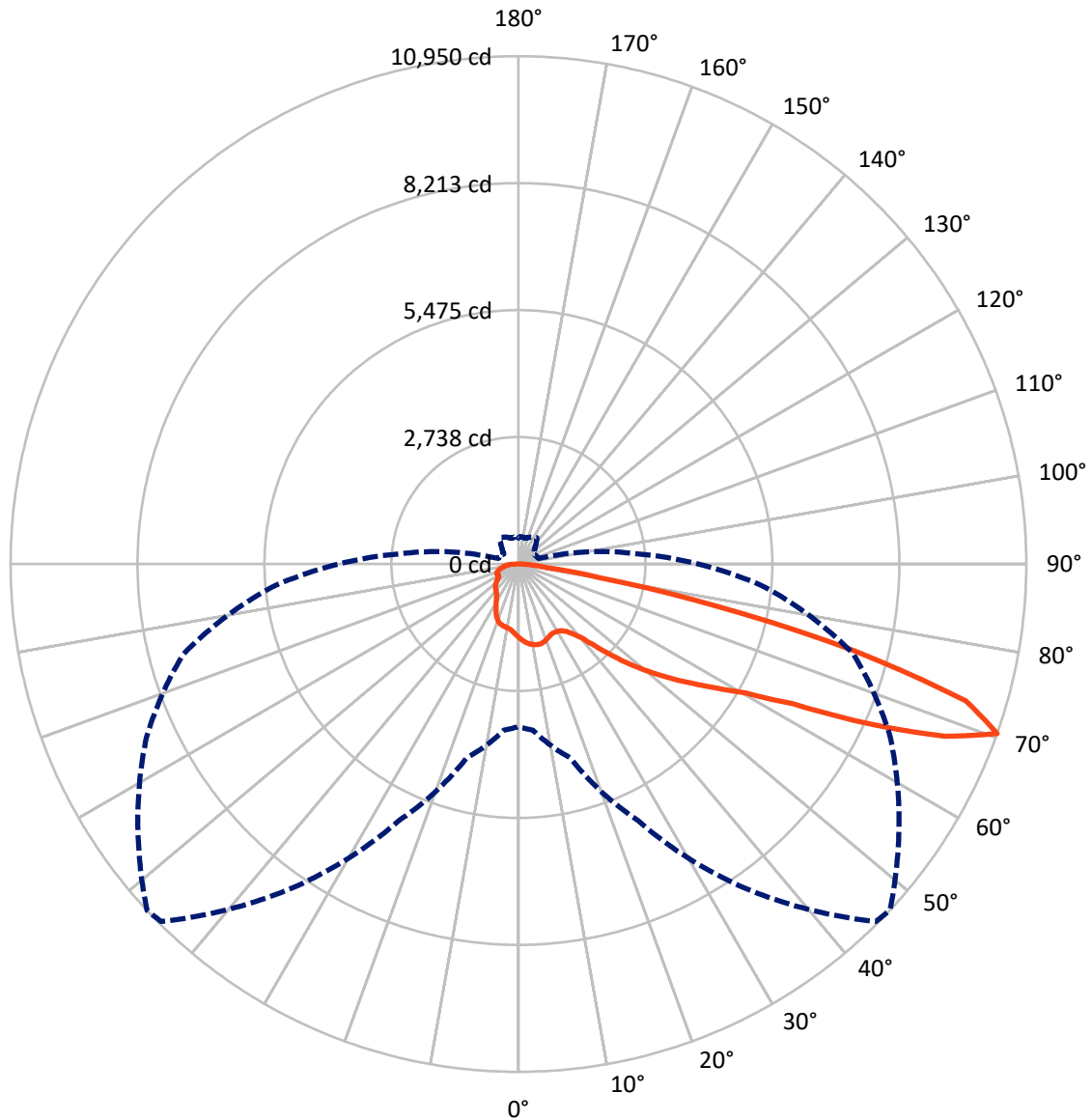


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2847.4   | 0.0    | 2847.4  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 10801.1  | 0.0    | 10801.1 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 13648.5  | 0.0    | 13648.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 151.7   | 1.1       |
| 10°-20°   | 445.2   | 3.3       |
| 20°-30°   | 657.4   | 4.8       |
| 30°-40°   | 955.5   | 7.0       |
| 40°-50°   | 1719.6  | 12.6      |
| 50°-60°   | 2979.0  | 21.8      |
| 60°-70°   | 4251.9  | 31.2      |
| 70°-80°   | 2182.7  | 16.0      |
| 80°-90°   | 305.6   | 2.2       |
| 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°    | 13648.5 | 100.0     |
| 0°-180°   | 13648.5 | 100.0     |

**Coefficient of Utilization**



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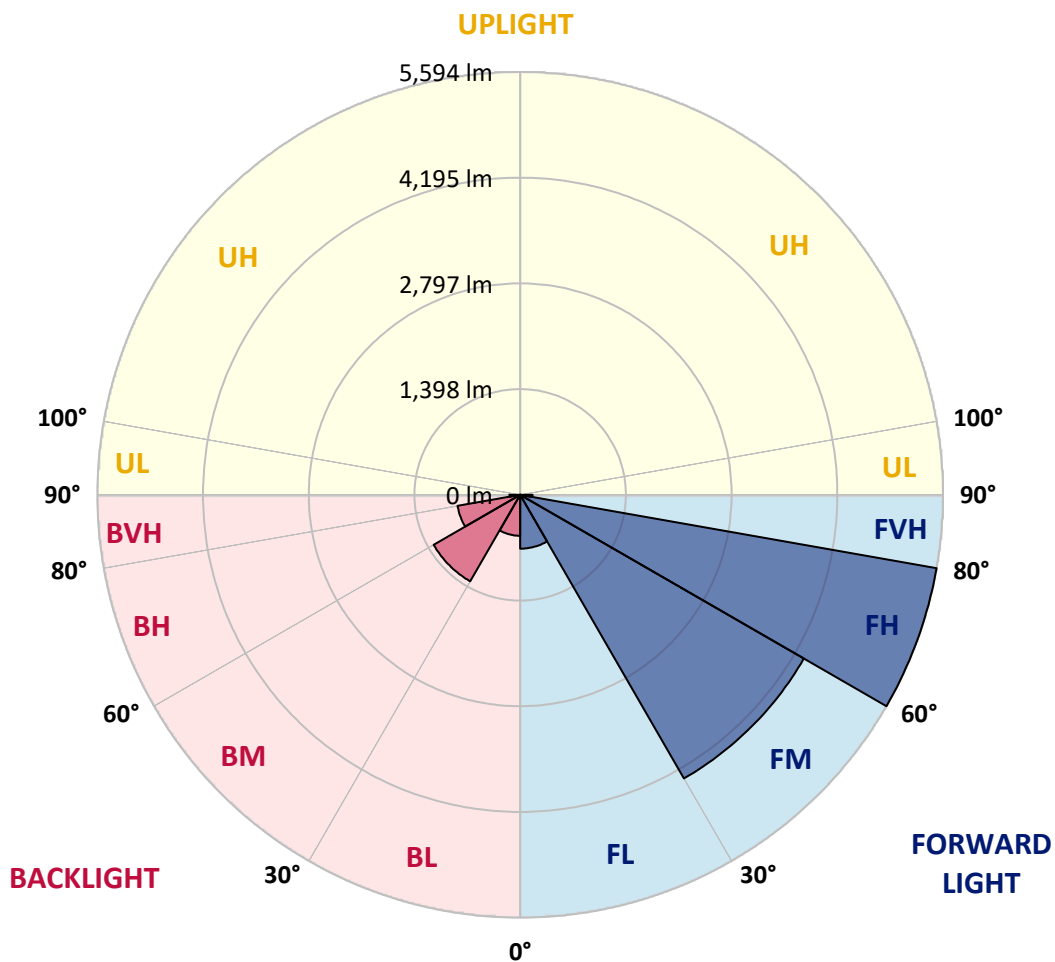
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 712.1  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 4332.4 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 5593.5 | 41.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 163.1  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 542.2  | 4.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1321.7 | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 841.0  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 142.5  | 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°     | 47°     | 55°     | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0°    | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6  | 1583.6  | 1583.6  | 1583.6 | 1583.6 | 1583.6 |
| 2.5°  | 1676.5 | 1673.4 | 1671.9 | 1669.3 | 1665.9 | 1649.4  | 1646.1  | 1634.0  | 1617.5 | 1600.2 | 1582.4 |
| 5°    | 1786.8 | 1786.2 | 1778.9 | 1765.6 | 1744.2 | 1707.8  | 1699.1  | 1669.9  | 1630.9 | 1593.0 | 1555.1 |
| 7.5°  | 1883.7 | 1877.7 | 1863.9 | 1837.4 | 1800.2 | 1750.3  | 1738.4  | 1697.8  | 1644.1 | 1592.2 | 1541.1 |
| 10°   | 1954.8 | 1951.5 | 1920.9 | 1884.5 | 1836.0 | 1780.9  | 1767.0  | 1721.7  | 1662.7 | 1596.9 | 1533.1 |
| 12.5° | 1995.3 | 1988.7 | 1953.5 | 1909.6 | 1851.9 | 1798.0  | 1784.2  | 1738.4  | 1671.9 | 1596.9 | 1521.9 |
| 15°   | 1992.7 | 1987.9 | 1952.8 | 1905.0 | 1846.6 | 1799.5  | 1786.8  | 1741.1  | 1669.9 | 1590.3 | 1507.3 |
| 17.5° | 1939.6 | 1941.5 | 1911.7 | 1864.5 | 1816.7 | 1780.9  | 1769.7  | 1727.1  | 1656.7 | 1577.1 | 1490.0 |
| 20°   | 1846.6 | 1855.9 | 1836.0 | 1794.2 | 1767.5 | 1743.0  | 1735.7  | 1699.9  | 1636.2 | 1557.8 | 1471.5 |
| 22.5° | 1753.6 | 1762.2 | 1754.3 | 1719.0 | 1715.1 | 1700.5  | 1696.4  | 1670.7  | 1618.1 | 1545.9 | 1460.1 |
| 25°   | 1685.2 | 1693.2 | 1691.9 | 1661.3 | 1673.4 | 1672.6  | 1669.3  | 1656.7  | 1614.2 | 1545.9 | 1462.1 |
| 27.5° | 1666.6 | 1669.3 | 1666.6 | 1638.8 | 1655.3 | 1668.6  | 1665.9  | 1664.0  | 1626.1 | 1565.0 | 1487.4 |
| 30°   | 1730.3 | 1726.5 | 1705.8 | 1649.4 | 1664.6 | 1683.2  | 1680.5  | 1681.9  | 1662.0 | 1615.5 | 1543.7 |
| 32.5° | 1984.7 | 1966.7 | 1901.7 | 1743.0 | 1702.5 | 1712.4  | 1713.7  | 1735.7  | 1738.9 | 1693.2 | 1631.4 |
| 35°   | 2365.1 | 2345.3 | 2260.9 | 1994.0 | 1820.1 | 1785.6  | 1785.6  | 1818.7  | 1838.7 | 1804.8 | 1767.5 |
| 37.5° | 2768.2 | 2746.3 | 2701.2 | 2341.9 | 2067.0 | 1912.3  | 1909.0  | 1932.3  | 1960.8 | 1968.7 | 1978.1 |
| 40°   | 3226.4 | 3203.1 | 3215.8 | 2732.4 | 2411.7 | 2132.0  | 2085.0  | 2068.3  | 2145.4 | 2196.5 | 2270.8 |
| 42.5° | 3727.7 | 3717.0 | 3721.8 | 3167.3 | 2804.1 | 2460.7  | 2393.8  | 2308.0  | 2401.0 | 2492.0 | 2648.1 |
| 45°   | 4191.9 | 4201.2 | 4196.5 | 3632.7 | 3241.1 | 2861.9  | 2790.9  | 2624.8  | 2715.8 | 2871.8 | 3126.1 |
| 47.5° | 4598.2 | 4559.6 | 4619.4 | 4141.4 | 3730.4 | 3310.8  | 3223.1  | 3000.6  | 3093.0 | 3285.6 | 3715.7 |
| 50°   | 5091.6 | 5086.3 | 4998.6 | 4819.9 | 4321.9 | 3761.7  | 3646.7  | 3389.0  | 3532.6 | 3800.1 | 4458.7 |
| 52.5° | 5610.2 | 5513.8 | 5433.6 | 5347.9 | 4949.5 | 4223.7  | 4082.9  | 3776.1  | 4049.1 | 4385.7 | 5364.5 |
| 55°   | 5716.5 | 5673.2 | 5772.9 | 5917.0 | 5554.4 | 4703.9  | 4539.8  | 4261.6  | 4630.8 | 5055.0 | 6409.0 |
| 57.5° | 5943.5 | 5942.8 | 6148.7 | 6405.6 | 6177.3 | 5213.1  | 5047.8  | 4848.0  | 5284.8 | 5821.9 | 7517.8 |
| 60°   | 6096.8 | 6140.1 | 6522.6 | 7021.2 | 6788.9 | 5801.4  | 5649.4  | 5524.4  | 6028.4 | 6679.2 | 8551.1 |
| 62.5° | 6177.3 | 6235.7 | 6757.6 | 7270.8 | 7653.3 | 6780.8  | 6628.8  | 6448.8  | 7012.6 | 7619.5 | 9155.3 |
| 65°   | 5843.2 | 5958.1 | 6721.1 | 7486.7 | 8410.3 | 8368.4  | 8300.1  | 7984.0  | 8242.9 | 8362.4 | 8936.8 |
| 67.5° | 4918.8 | 5036.4 | 5925.0 | 7285.4 | 8950.8 | 9899.6  | 9914.2  | 9374.4  | 8999.8 | 8426.2 | 7513.9 |
| 70°   | 3504.6 | 3597.0 | 4331.9 | 6108.1 | 8539.1 | 10900.3 | 10950.1 | 10015.2 | 8849.2 | 7472.7 | 5249.6 |
| 72.5° | 1664.0 | 1720.4 | 2416.4 | 3975.4 | 6776.2 | 9987.3  | 10083.6 | 9197.0  | 7524.6 | 5532.5 | 2863.8 |
| 75°   | 611.6  | 628.9  | 816.6  | 1691.1 | 3930.3 | 7365.2  | 7478.7  | 6592.9  | 4988.0 | 2754.4 | 1090.9 |
| 77.5° | 366.5  | 377.7  | 458.1  | 713.9  | 1545.9 | 4209.7  | 4377.8  | 3585.7  | 2179.9 | 1025.2 | 536.5  |
| 80°   | 256.2  | 264.3  | 328.7  | 444.2  | 730.4  | 1604.3  | 1753.6  | 1463.5  | 868.5  | 648.8  | 390.5  |
| 82.5° | 173.4  | 177.2  | 231.0  | 300.2  | 485.4  | 572.9   | 618.3   | 650.7   | 585.6  | 482.7  | 247.7  |
| 85°   | 113.5  | 117.5  | 156.8  | 197.8  | 308.7  | 296.1   | 302.8   | 383.1   | 427.7  | 328.1  | 137.4  |
| 87.5° | 65.0   | 67.7   | 94.3   | 105.6  | 151.4  | 125.6   | 126.8   | 201.8   | 273.5  | 221.2  | 83.6   |
| 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°    | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 | 1583.6 |
| 2.5°  | 1577.7 | 1569.0 | 1549.8 | 1537.8 | 1526.5 | 1523.9 | 1519.3 | 1518.6 | 1518.0 | 1518.0 | 1515.9 |
| 5°    | 1542.5 | 1527.8 | 1498.1 | 1481.3 | 1467.4 | 1466.2 | 1465.5 | 1468.8 | 1470.0 | 1471.5 | 1469.4 |
| 7.5°  | 1519.9 | 1500.0 | 1462.8 | 1438.8 | 1422.2 | 1418.3 | 1424.9 | 1440.3 | 1450.1 | 1454.1 | 1452.2 |
| 10°   | 1506.0 | 1481.3 | 1438.2 | 1412.3 | 1398.4 | 1396.3 | 1404.9 | 1422.9 | 1443.5 | 1451.5 | 1450.9 |
| 12.5° | 1490.0 | 1462.1 | 1416.3 | 1389.0 | 1381.1 | 1385.0 | 1396.3 | 1413.0 | 1434.2 | 1446.9 | 1447.4 |
| 15°   | 1474.1 | 1441.6 | 1394.3 | 1370.5 | 1367.2 | 1372.5 | 1383.1 | 1395.7 | 1412.3 | 1424.9 | 1426.2 |
| 17.5° | 1454.8 | 1420.9 | 1373.8 | 1349.3 | 1346.6 | 1349.3 | 1350.0 | 1356.6 | 1367.2 | 1379.2 | 1382.4 |
| 20°   | 1434.2 | 1399.6 | 1350.6 | 1326.0 | 1314.1 | 1303.4 | 1291.6 | 1292.8 | 1296.2 | 1308.1 | 1310.7 |
| 22.5° | 1419.6 | 1385.0 | 1332.6 | 1298.8 | 1266.9 | 1235.0 | 1211.2 | 1207.9 | 1209.2 | 1219.1 | 1222.5 |
| 25°   | 1420.9 | 1384.5 | 1328.1 | 1269.6 | 1199.9 | 1148.8 | 1116.9 | 1111.6 | 1110.8 | 1118.2 | 1122.8 |
| 27.5° | 1446.9 | 1410.3 | 1345.3 | 1239.8 | 1126.8 | 1051.1 | 1017.2 | 1013.3 | 1008.0 | 1010.0 | 1015.3 |
| 30°   | 1504.7 | 1470.7 | 1387.2 | 1209.2 | 1047.9 | 955.4  | 920.4  | 916.4  | 909.1  | 905.8  | 909.7  |
| 32.5° | 1599.0 | 1571.0 | 1448.2 | 1180.0 | 968.8  | 873.8  | 837.9  | 829.3  | 824.7  | 820.7  | 824.0  |
| 35°   | 1755.6 | 1743.7 | 1529.9 | 1148.0 | 899.1  | 810.7  | 778.2  | 764.9  | 758.3  | 765.5  | 770.9  |
| 37.5° | 2001.3 | 2007.9 | 1636.8 | 1098.3 | 845.2  | 768.9  | 741.7  | 726.4  | 716.5  | 722.4  | 728.4  |
| 40°   | 2349.2 | 2353.9 | 1755.0 | 1027.9 | 798.9  | 744.3  | 715.1  | 701.1  | 687.3  | 676.7  | 676.0  |
| 42.5° | 2806.0 | 2759.0 | 1871.2 | 951.6  | 745.1  | 729.1  | 696.5  | 679.3  | 658.0  | 628.9  | 622.9  |
| 45°   | 3348.0 | 3182.5 | 1959.5 | 863.9  | 684.6  | 710.5  | 676.0  | 652.1  | 618.8  | 587.0  | 583.7  |
| 47.5° | 3972.0 | 3637.3 | 2002.6 | 772.9  | 628.2  | 683.3  | 650.7  | 612.9  | 571.1  | 555.2  | 553.1  |
| 50°   | 4734.3 | 4177.3 | 2023.3 | 684.6  | 579.0  | 647.4  | 614.3  | 569.7  | 534.5  | 531.2  | 529.2  |
| 52.5° | 5602.2 | 4826.7 | 2029.9 | 612.3  | 538.5  | 601.0  | 584.3  | 541.1  | 513.3  | 515.9  | 515.9  |
| 55°   | 6510.6 | 5497.3 | 1939.6 | 559.7  | 501.3  | 553.1  | 564.5  | 529.9  | 506.6  | 517.2  | 521.2  |
| 57.5° | 7344.5 | 6091.5 | 1655.3 | 519.2  | 466.1  | 516.5  | 557.0  | 540.5  | 524.6  | 567.6  | 570.3  |
| 60°   | 7984.7 | 6442.9 | 1236.3 | 482.7  | 440.2  | 503.9  | 576.4  | 581.1  | 584.9  | 687.9  | 701.8  |
| 62.5° | 8118.8 | 6326.0 | 849.9  | 454.2  | 428.3  | 514.5  | 611.6  | 612.3  | 607.6  | 679.3  | 687.9  |
| 65°   | 7503.3 | 5586.9 | 618.3  | 438.3  | 418.3  | 533.9  | 641.4  | 627.5  | 597.0  | 651.5  | 635.5  |
| 67.5° | 5958.7 | 4209.1 | 514.5  | 426.2  | 403.7  | 532.5  | 673.3  | 641.4  | 590.9  | 638.1  | 612.3  |
| 70°   | 3867.8 | 2545.1 | 458.1  | 416.4  | 386.5  | 507.4  | 691.9  | 640.1  | 573.7  | 593.6  | 563.1  |
| 72.5° | 1887.1 | 1138.2 | 420.2  | 401.7  | 368.6  | 472.1  | 691.2  | 628.2  | 555.8  | 554.4  | 537.8  |
| 75°   | 738.3  | 521.2  | 385.8  | 379.9  | 338.0  | 432.3  | 672.7  | 610.8  | 534.5  | 513.3  | 507.4  |
| 77.5° | 432.3  | 371.9  | 342.0  | 347.3  | 301.4  | 392.4  | 645.4  | 581.1  | 505.2  | 480.1  | 473.4  |
| 80°   | 314.8  | 278.3  | 291.5  | 300.2  | 257.6  | 352.6  | 609.0  | 544.6  | 472.8  | 485.4  | 476.1  |
| 82.5° | 201.8  | 179.3  | 236.3  | 245.0  | 214.4  | 312.2  | 569.0  | 505.9  | 427.0  | 387.8  | 378.5  |
| 85°   | 102.9  | 113.5  | 176.0  | 186.6  | 165.4  | 256.2  | 520.6  | 454.8  | 375.1  | 322.8  | 328.1  |
| 87.5° | 57.9   | 77.8   | 112.2  | 125.6  | 116.9  | 197.2  | 422.4  | 375.1  | 306.1  | 249.0  | 219.1  |
| 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)