

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: P192330

Luminaire Tested: **GAN-AF-02-LED-U-T4FT-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192330  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-T4FT-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12252 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

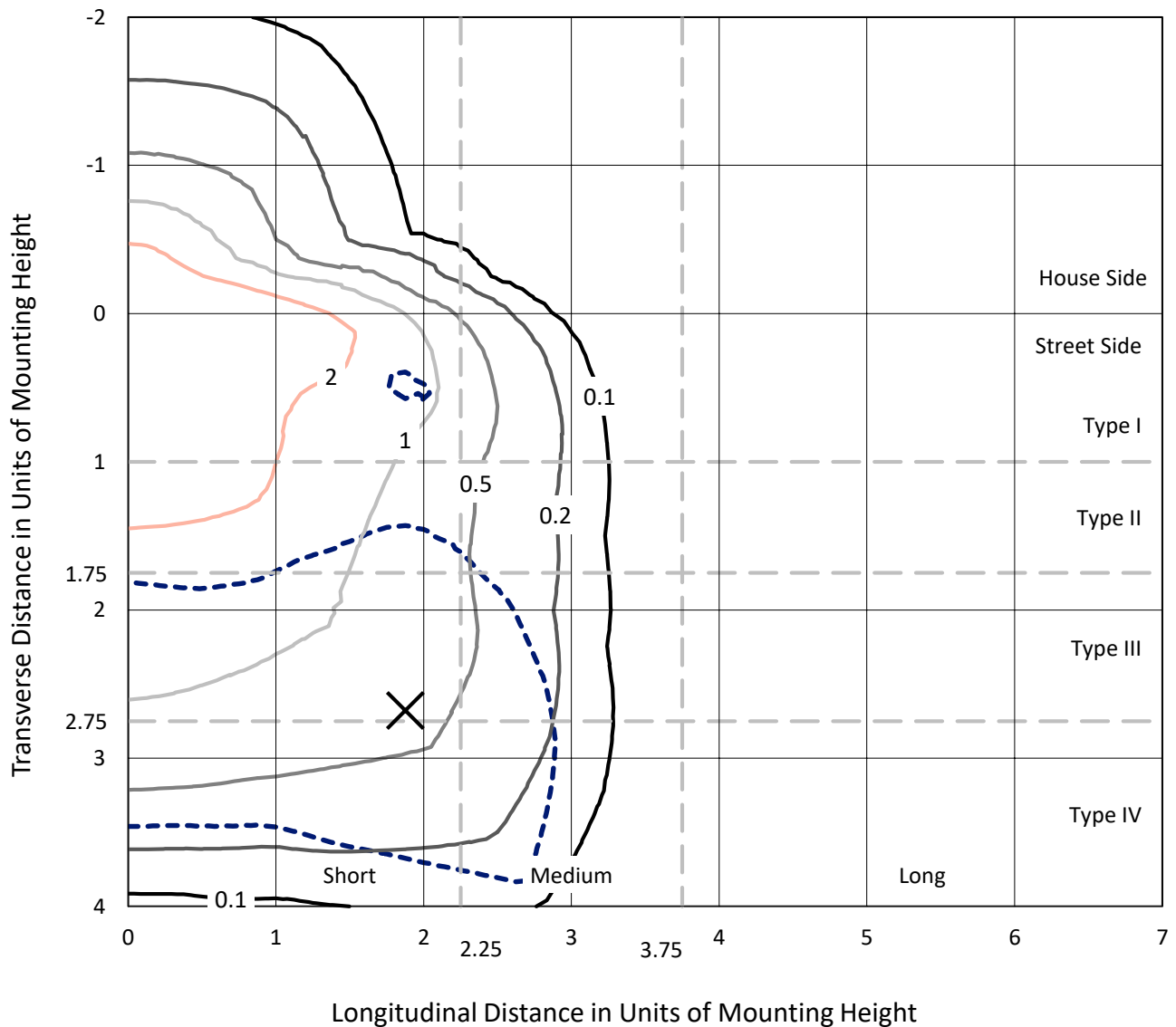
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

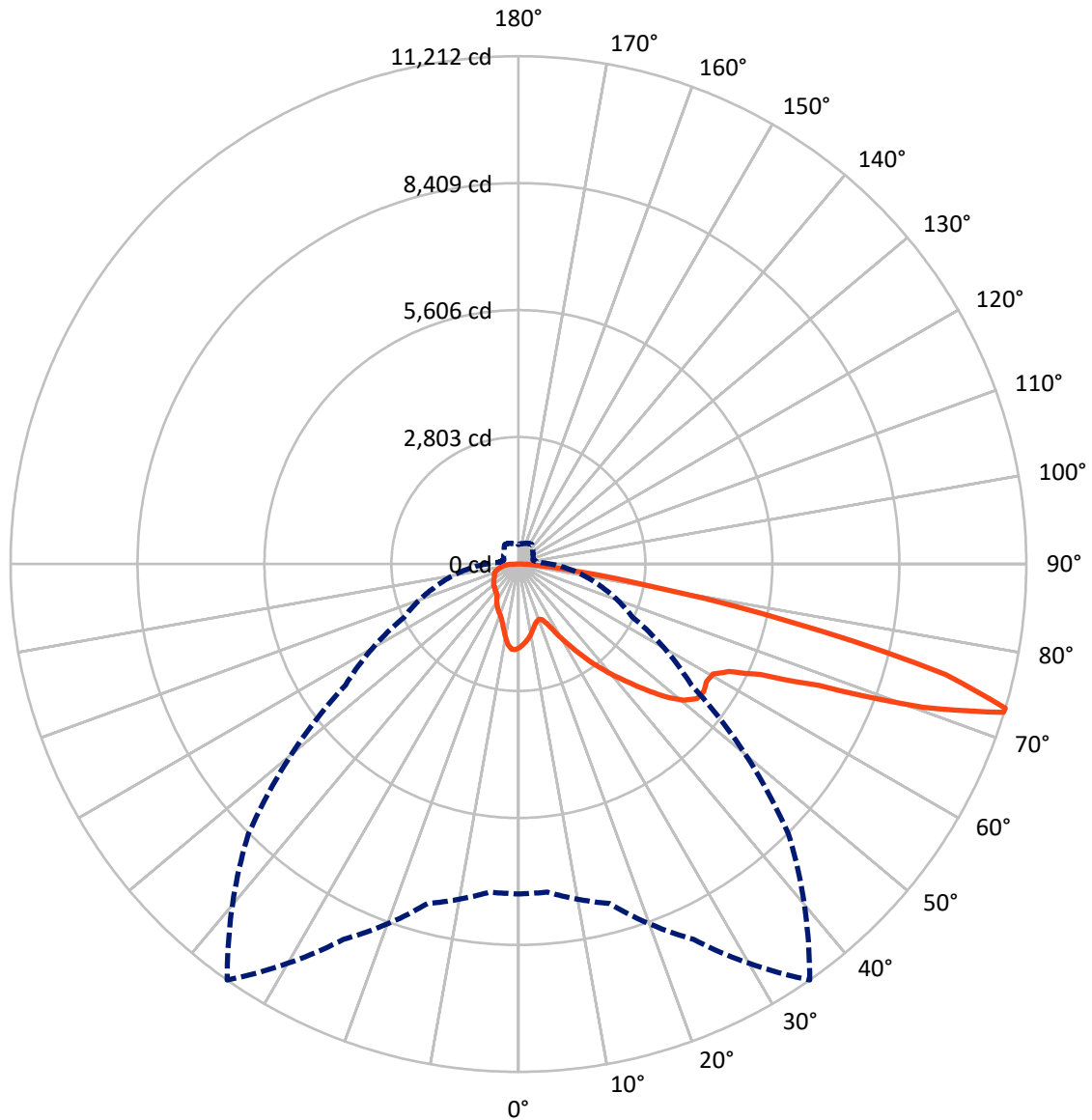
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2336.8   | 0.0    | 2336.8  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 9915.2   | 0.0    | 9915.2  |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 12252.0  | 0.0    | 12252.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 167.4   | 1.4       |
| 10°-20°   | 417.8   | 3.4       |
| 20°-30°   | 675.5   | 5.5       |
| 30°-40°   | 1132.7  | 9.2       |
| 40°-50°   | 1746.0  | 14.3      |
| 50°-60°   | 2342.4  | 19.1      |
| 60°-70°   | 3120.5  | 25.5      |
| 70°-80°   | 2380.0  | 19.4      |
| 80°-90°   | 269.8   | 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°    | 12252.0 | 100.0     |
| 0°-180°   | 12252.0 | 100.0     |

**Coefficient of Utilization**



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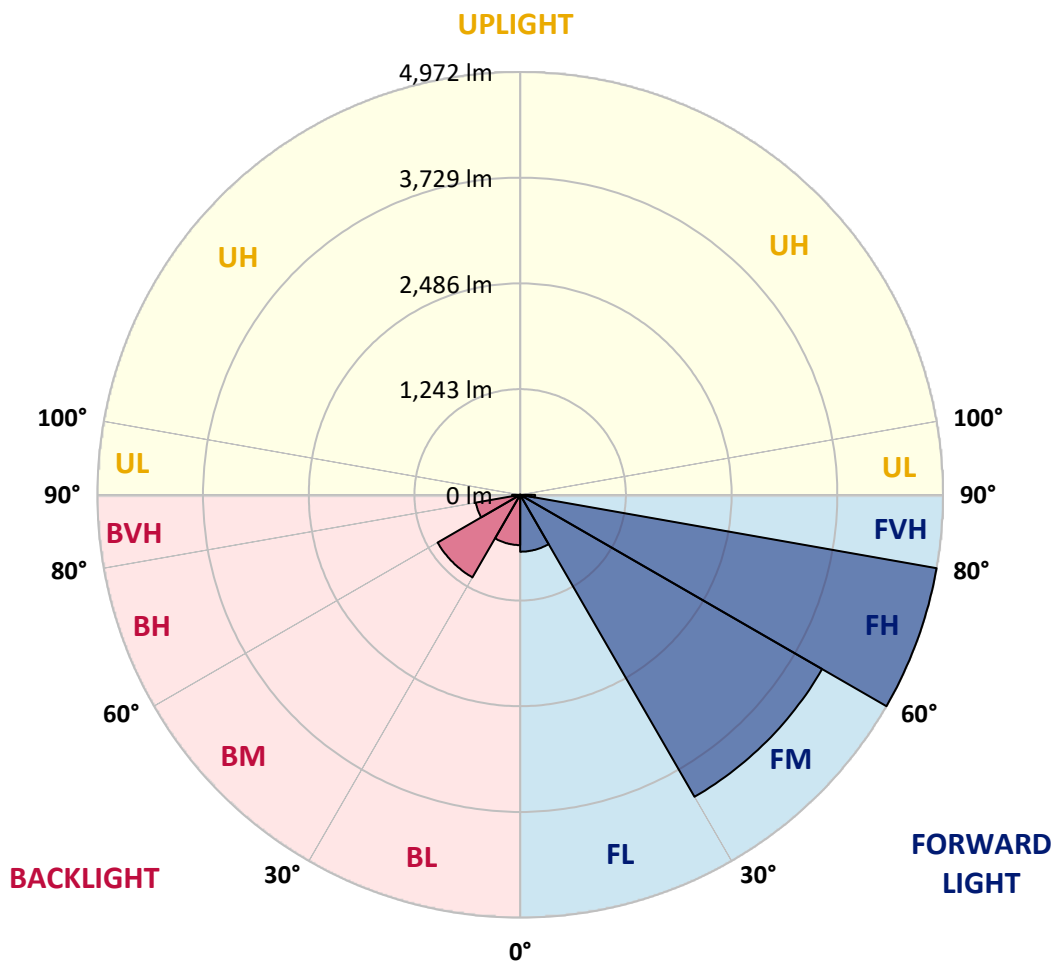
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 669.4  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 4099.6 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 4971.9 | 40.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 174.4  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 591.3  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1121.4 | 9.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 528.7  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 95.4   | 0.8       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2  | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 |
| 2.5°  | 1776.3 | 1779.8 | 1775.7 | 1781.0 | 1789.8  | 1799.2 | 1805.7 | 1815.1 | 1825.7 | 1840.4 | 1843.9 |
| 5°    | 1692.7 | 1698.0 | 1698.0 | 1707.4 | 1724.5  | 1739.8 | 1753.9 | 1769.2 | 1791.5 | 1816.8 | 1826.8 |
| 7.5°  | 1600.9 | 1603.9 | 1609.2 | 1623.3 | 1648.0  | 1669.8 | 1689.8 | 1714.5 | 1745.1 | 1778.6 | 1796.3 |
| 10°   | 1490.3 | 1494.4 | 1502.7 | 1522.7 | 1556.2  | 1586.2 | 1615.0 | 1649.2 | 1688.0 | 1729.8 | 1752.1 |
| 12.5° | 1412.1 | 1410.9 | 1414.4 | 1429.1 | 1458.5  | 1495.0 | 1536.8 | 1580.3 | 1628.0 | 1676.8 | 1703.9 |
| 15°   | 1385.6 | 1379.1 | 1365.6 | 1362.0 | 1377.9  | 1414.4 | 1462.7 | 1516.2 | 1573.3 | 1632.1 | 1665.6 |
| 17.5° | 1402.1 | 1390.9 | 1353.8 | 1326.7 | 1324.4  | 1352.0 | 1403.2 | 1463.2 | 1529.1 | 1600.9 | 1642.7 |
| 20°   | 1505.6 | 1479.1 | 1387.9 | 1325.0 | 1303.2  | 1316.7 | 1361.5 | 1425.0 | 1502.7 | 1598.0 | 1651.5 |
| 22.5° | 1753.3 | 1714.5 | 1520.9 | 1403.8 | 1330.3  | 1313.8 | 1347.3 | 1415.0 | 1505.6 | 1634.5 | 1702.7 |
| 25°   | 2114.0 | 2058.7 | 1749.2 | 1600.3 | 1448.5  | 1360.9 | 1368.5 | 1437.9 | 1547.4 | 1719.2 | 1801.6 |
| 27.5° | 2398.7 | 2362.8 | 2047.5 | 1877.4 | 1663.9  | 1488.0 | 1437.4 | 1495.6 | 1632.7 | 1858.0 | 1942.2 |
| 30°   | 2568.2 | 2546.4 | 2366.4 | 2191.6 | 1938.6  | 1690.4 | 1569.1 | 1603.9 | 1766.2 | 2050.4 | 2119.9 |
| 32.5° | 2764.7 | 2751.7 | 2663.5 | 2502.9 | 2235.2  | 1956.3 | 1778.0 | 1765.7 | 1945.1 | 2281.7 | 2313.4 |
| 35°   | 2968.3 | 2964.1 | 2912.4 | 2797.1 | 2553.5  | 2306.9 | 2055.1 | 1971.6 | 2139.9 | 2521.7 | 2501.7 |
| 37.5° | 3157.7 | 3150.7 | 3120.6 | 3053.6 | 2886.5  | 2683.5 | 2337.5 | 2182.8 | 2349.9 | 2751.2 | 2662.3 |
| 40°   | 3506.6 | 3451.3 | 3348.3 | 3297.7 | 3223.0  | 3000.6 | 2561.7 | 2379.9 | 2567.6 | 2970.0 | 2801.2 |
| 42.5° | 3932.0 | 3842.0 | 3650.2 | 3580.7 | 3570.2  | 3250.7 | 2714.7 | 2571.1 | 2787.0 | 3187.1 | 2937.7 |
| 45°   | 4266.8 | 4182.0 | 4016.7 | 3929.1 | 3967.9  | 3477.2 | 2868.2 | 2775.3 | 3013.0 | 3414.8 | 3078.3 |
| 47.5° | 4623.9 | 4490.9 | 4272.1 | 4298.5 | 4383.3  | 3691.4 | 3024.7 | 2994.7 | 3260.7 | 3669.6 | 3253.0 |
| 50°   | 4636.8 | 4535.1 | 4439.2 | 4597.4 | 4729.2  | 3888.5 | 3220.7 | 3224.8 | 3563.7 | 3990.2 | 3485.4 |
| 52.5° | 4368.0 | 4346.2 | 4498.6 | 4747.5 | 4937.5  | 4044.4 | 3443.7 | 3462.5 | 3951.4 | 4358.6 | 3740.8 |
| 55°   | 4273.8 | 4249.1 | 4425.0 | 4695.1 | 4965.7  | 4173.2 | 3685.5 | 3719.6 | 4420.3 | 4746.9 | 3989.7 |
| 57.5° | 4503.3 | 4448.6 | 4460.3 | 4670.4 | 4896.9  | 4314.4 | 3949.1 | 4017.9 | 4929.8 | 5086.3 | 4149.7 |
| 60°   | 5144.6 | 5027.5 | 4805.1 | 4799.8 | 4934.0  | 4526.2 | 4253.8 | 4338.0 | 5459.4 | 5248.7 | 4087.3 |
| 62.5° | 6044.2 | 5927.1 | 5510.6 | 5239.3 | 5219.3  | 4875.7 | 4628.0 | 4650.4 | 5765.3 | 5028.7 | 3706.7 |
| 65°   | 7017.9 | 6913.2 | 6447.8 | 6064.8 | 5880.0  | 5454.7 | 5062.8 | 4789.8 | 5665.3 | 4423.3 | 3040.6 |
| 67.5° | 8199.9 | 8087.6 | 7687.5 | 7333.9 | 7156.2  | 6389.0 | 5368.2 | 4656.3 | 5030.5 | 3426.6 | 2185.7 |
| 70°   | 9026.6 | 8911.9 | 8754.2 | 9040.7 | 9475.5  | 7736.9 | 5407.6 | 4113.2 | 3757.3 | 2277.5 | 1315.6 |
| 72.5° | 7948.1 | 7894.6 | 8182.3 | 9389.0 | 11200.0 | 8554.7 | 4888.1 | 2994.7 | 2182.2 | 1209.1 | 761.3  |
| 73°   | 7282.1 | 7270.3 | 7761.0 | 9144.8 | 11212.3 | 8428.8 | 4660.4 | 2783.5 | 1871.6 | 1069.6 | 696.0  |
| 75°   | 3288.3 | 3383.1 | 4458.6 | 6985.0 | 9741.4  | 6945.6 | 3280.1 | 1596.8 | 1057.3 | 739.0  | 525.4  |
| 77.5° | 790.2  | 823.1  | 1395.0 | 3317.2 | 6151.9  | 4139.1 | 1486.2 | 789.6  | 676.0  | 521.9  | 383.6  |
| 80°   | 336.5  | 347.7  | 537.2  | 1225.5 | 2896.5  | 1666.8 | 684.8  | 528.9  | 467.7  | 364.2  | 268.9  |
| 82.5° | 187.1  | 198.9  | 304.8  | 556.0  | 1169.1  | 568.4  | 417.7  | 368.3  | 307.7  | 219.5  | 174.7  |
| 85°   | 105.9  | 112.4  | 178.3  | 310.7  | 495.4   | 228.3  | 250.1  | 244.8  | 173.6  | 113.0  | 85.9   |
| 87.5° | 50.0   | 54.1   | 85.9   | 144.1  | 194.2   | 89.4   | 127.1  | 140.0  | 108.8  | 68.8   | 44.7   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 | 1849.2 |
| 2.5°  | 1848.0 | 1858.6 | 1871.0 | 1877.4 | 1883.3 | 1890.4 | 1897.5 | 1897.5 | 1898.6 | 1899.2 |
| 5°    | 1835.1 | 1856.9 | 1876.3 | 1884.5 | 1886.3 | 1886.3 | 1884.5 | 1875.1 | 1866.9 | 1870.4 |
| 7.5°  | 1808.0 | 1839.8 | 1856.3 | 1853.3 | 1831.0 | 1805.1 | 1783.3 | 1756.8 | 1743.3 | 1740.9 |
| 10°   | 1769.2 | 1805.7 | 1808.6 | 1779.2 | 1723.9 | 1668.6 | 1622.7 | 1578.0 | 1556.8 | 1551.5 |
| 12.5° | 1726.2 | 1759.8 | 1740.9 | 1680.3 | 1591.5 | 1510.9 | 1452.7 | 1407.4 | 1387.3 | 1382.1 |
| 15°   | 1691.5 | 1714.5 | 1666.8 | 1571.5 | 1459.7 | 1374.4 | 1326.2 | 1292.6 | 1278.5 | 1274.4 |
| 17.5° | 1673.3 | 1678.0 | 1590.9 | 1462.1 | 1343.2 | 1272.0 | 1242.0 | 1226.1 | 1220.8 | 1217.9 |
| 20°   | 1682.1 | 1649.2 | 1518.6 | 1360.3 | 1247.9 | 1197.9 | 1190.8 | 1186.7 | 1185.5 | 1183.8 |
| 22.5° | 1726.2 | 1640.3 | 1452.1 | 1263.8 | 1164.4 | 1142.6 | 1148.5 | 1147.9 | 1146.7 | 1145.5 |
| 25°   | 1805.1 | 1648.0 | 1387.3 | 1172.0 | 1094.3 | 1089.6 | 1100.2 | 1100.2 | 1095.5 | 1095.5 |
| 27.5° | 1909.2 | 1663.9 | 1315.0 | 1084.9 | 1030.8 | 1031.4 | 1039.6 | 1037.3 | 1032.0 | 1028.4 |
| 30°   | 2036.3 | 1673.9 | 1230.3 | 1006.7 | 971.4  | 969.0  | 971.4  | 961.4  | 945.5  | 944.3  |
| 32.5° | 2166.3 | 1661.5 | 1132.0 | 937.3  | 908.4  | 903.1  | 901.4  | 887.2  | 869.0  | 863.7  |
| 35°   | 2284.0 | 1616.2 | 1032.0 | 881.9  | 848.4  | 836.6  | 844.9  | 840.2  | 823.7  | 819.6  |
| 37.5° | 2369.9 | 1532.1 | 942.0  | 833.1  | 805.5  | 802.5  | 807.8  | 809.6  | 790.2  | 786.0  |
| 40°   | 2427.6 | 1417.9 | 864.9  | 791.9  | 797.2  | 786.0  | 768.4  | 756.0  | 750.2  | 748.4  |
| 42.5° | 2474.0 | 1299.1 | 800.2  | 772.5  | 799.0  | 766.6  | 728.4  | 708.4  | 719.0  | 723.7  |
| 45°   | 2527.6 | 1183.2 | 746.0  | 748.4  | 790.2  | 744.3  | 700.7  | 681.3  | 685.4  | 686.6  |
| 47.5° | 2601.1 | 1042.0 | 687.8  | 709.6  | 760.7  | 729.0  | 683.7  | 656.0  | 636.6  | 627.8  |
| 50°   | 2702.9 | 874.9  | 627.2  | 666.0  | 731.9  | 717.8  | 657.2  | 627.8  | 591.9  | 583.7  |
| 52.5° | 2773.5 | 719.0  | 577.2  | 629.5  | 706.0  | 695.4  | 636.0  | 597.8  | 560.1  | 553.1  |
| 55°   | 2735.3 | 597.2  | 533.6  | 588.9  | 671.9  | 667.8  | 618.4  | 567.2  | 537.8  | 531.9  |
| 57.5° | 2544.1 | 520.1  | 500.1  | 550.7  | 630.1  | 644.3  | 594.8  | 541.3  | 520.1  | 516.0  |
| 60°   | 2179.3 | 471.9  | 478.9  | 524.8  | 596.0  | 620.7  | 571.3  | 527.2  | 513.0  | 510.1  |
| 62.5° | 1690.9 | 439.5  | 463.0  | 506.0  | 569.5  | 604.2  | 558.4  | 525.4  | 520.1  | 516.6  |
| 65°   | 1211.4 | 413.6  | 446.0  | 487.2  | 545.4  | 588.9  | 553.6  | 523.0  | 524.2  | 521.3  |
| 67.5° | 823.1  | 390.7  | 425.4  | 466.0  | 521.9  | 575.4  | 547.2  | 514.8  | 529.5  | 526.0  |
| 70°   | 576.0  | 368.3  | 401.3  | 438.9  | 492.5  | 556.6  | 535.4  | 502.5  | 501.3  | 487.2  |
| 72.5° | 449.5  | 338.9  | 368.3  | 401.3  | 454.8  | 530.1  | 511.9  | 474.8  | 455.4  | 440.7  |
| 73°   | 428.9  | 331.8  | 360.1  | 393.0  | 446.6  | 523.6  | 505.4  | 467.2  | 445.4  | 431.9  |
| 75°   | 354.8  | 301.2  | 327.1  | 356.5  | 411.3  | 493.0  | 473.6  | 432.4  | 404.8  | 396.6  |
| 77.5° | 278.9  | 257.7  | 282.4  | 308.9  | 362.4  | 448.3  | 426.6  | 387.1  | 371.8  | 364.8  |
| 80°   | 206.5  | 213.6  | 235.3  | 258.9  | 314.2  | 400.7  | 381.3  | 341.8  | 410.1  | 393.0  |
| 82.5° | 145.3  | 161.8  | 181.8  | 203.0  | 263.6  | 354.2  | 330.7  | 290.1  | 300.1  | 249.5  |
| 85°   | 85.9   | 105.9  | 124.7  | 143.0  | 190.0  | 293.6  | 273.0  | 231.2  | 189.5  | 180.6  |
| 87.5° | 50.0   | 58.8   | 64.1   | 83.0   | 130.6  | 221.2  | 192.4  | 171.2  | 98.3   | 66.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)