

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: P194811

Luminaire Tested: **GAN-AF-03-LED-U-T3R-7060-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-T3R-7060-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12242 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 96  
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

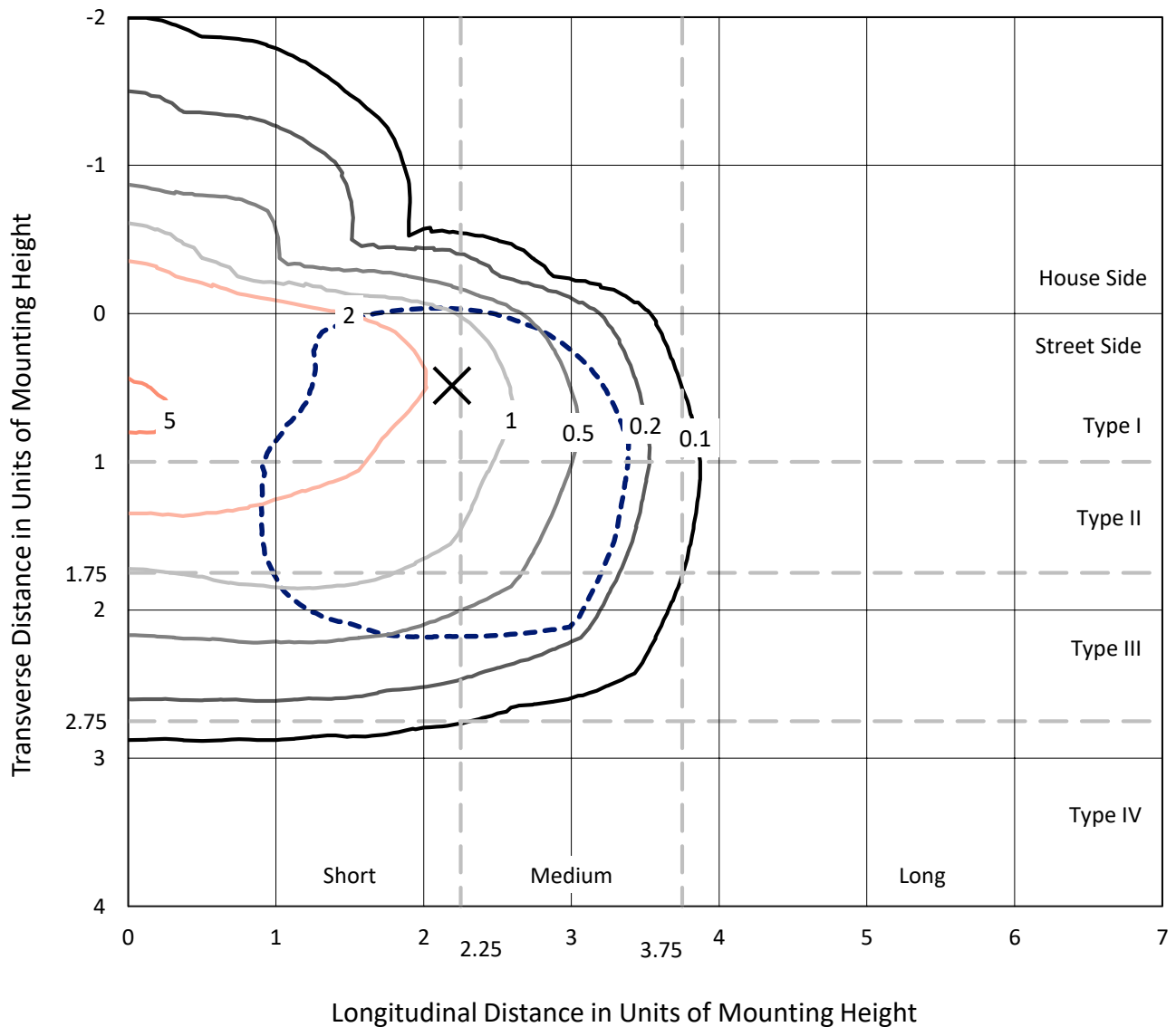


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

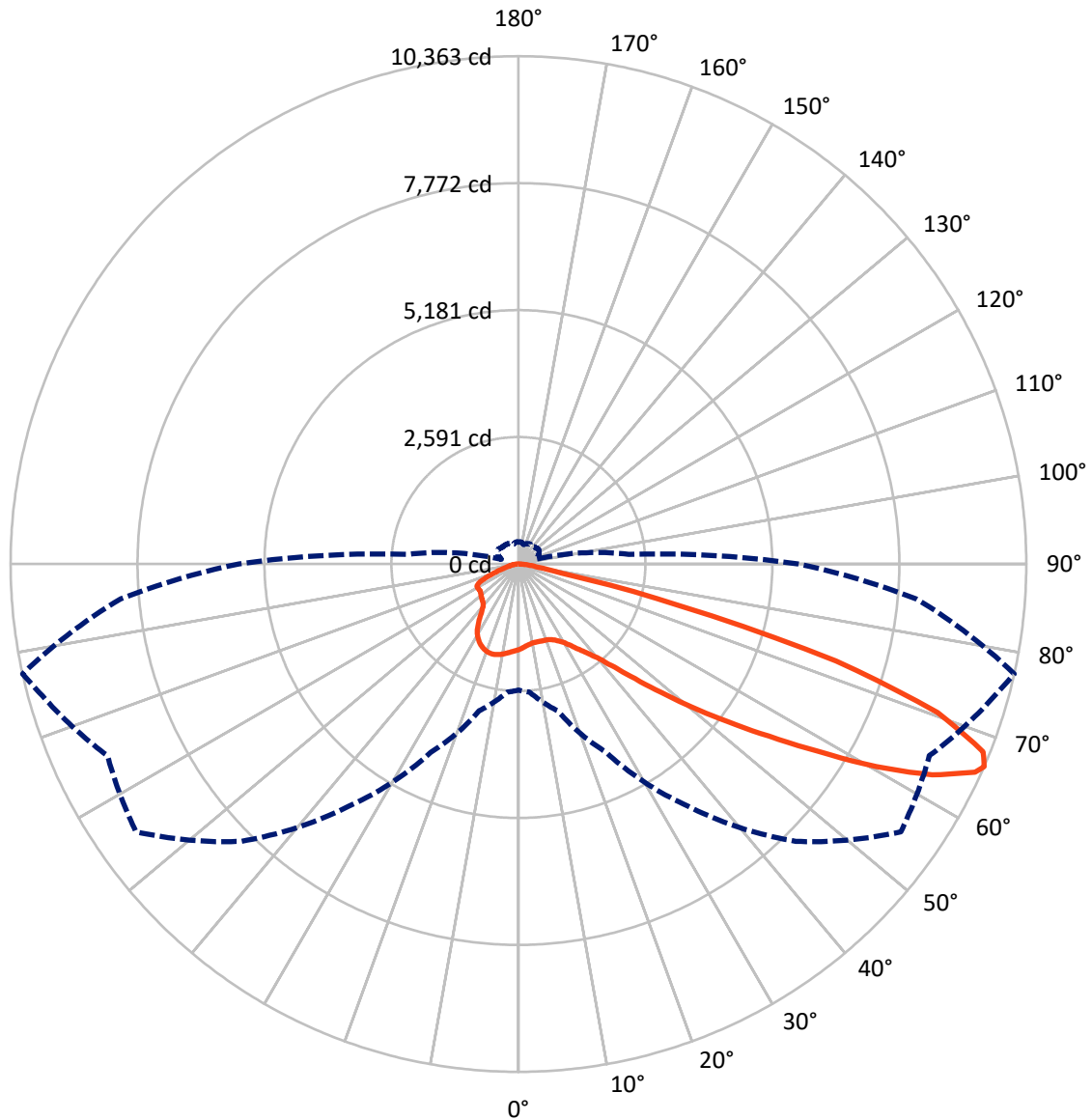


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2091.5   | 0.0    | 2091.5  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 10150.5  | 0.0    | 10150.5 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 12242.0  | 0.0    | 12242.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 155.9   | 1.3       |
| 10°-20°   | 439.7   | 3.6       |
| 20°-30°   | 750.4   | 6.1       |
| 30°-40°   | 1201.3  | 9.8       |
| 40°-50°   | 1855.9  | 15.2      |
| 50°-60°   | 2632.3  | 21.5      |
| 60°-70°   | 3521.3  | 28.8      |
| 70°-80°   | 1529.2  | 12.5      |
| 80°-90°   | 155.9   | 1.3       |
| 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°    | 12242.0 | 100.0     |
| 0°-180°   | 12242.0 | 100.0     |

**Coefficient of Utilization**



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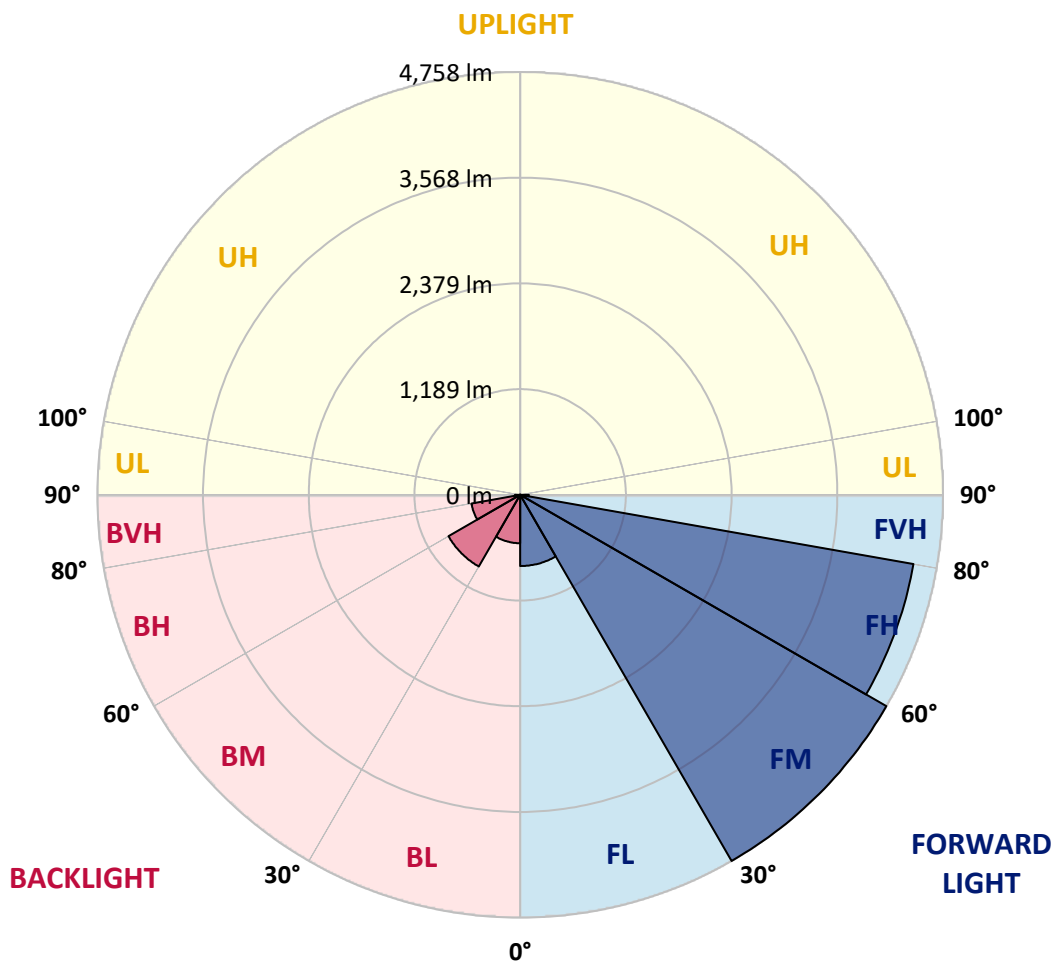
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 801.3  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 4757.9 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 4493.6 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 97.8   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 544.7  | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 931.6  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 557.0  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 58.1   | 0.5       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 77.5°   | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5  | 1744.5  | 1744.5 |
| 2.5°  | 1543.2 | 1553.7 | 1562.3 | 1570.4 | 1586.6 | 1613.2 | 1643.9 | 1668.8 | 1704.6  | 1711.6  | 1730.7 |
| 5°    | 1401.5 | 1401.5 | 1408.5 | 1420.6 | 1442.6 | 1482.5 | 1524.2 | 1579.7 | 1657.8  | 1676.3  | 1727.2 |
| 7.5°  | 1332.7 | 1333.3 | 1337.3 | 1347.7 | 1366.8 | 1403.3 | 1449.0 | 1514.3 | 1620.2  | 1650.8  | 1737.6 |
| 10°   | 1358.2 | 1352.4 | 1343.7 | 1338.5 | 1341.4 | 1362.8 | 1406.2 | 1479.0 | 1597.0  | 1636.4  | 1760.7 |
| 12.5° | 1500.4 | 1489.5 | 1459.4 | 1419.5 | 1381.3 | 1365.7 | 1391.1 | 1462.3 | 1587.2  | 1632.9  | 1791.4 |
| 15°   | 1733.0 | 1728.3 | 1672.2 | 1589.5 | 1497.0 | 1419.5 | 1402.1 | 1455.9 | 1588.4  | 1637.0  | 1827.8 |
| 17.5° | 2024.5 | 2018.1 | 1944.1 | 1823.8 | 1672.8 | 1521.8 | 1440.9 | 1461.1 | 1592.4  | 1643.9  | 1863.1 |
| 20°   | 2318.9 | 2299.3 | 2219.4 | 2076.0 | 1882.2 | 1661.2 | 1505.1 | 1474.4 | 1597.6  | 1651.4  | 1900.1 |
| 22.5° | 2538.7 | 2522.5 | 2450.8 | 2311.4 | 2088.1 | 1822.6 | 1591.3 | 1497.6 | 1614.4  | 1673.4  | 1945.8 |
| 25°   | 2731.9 | 2733.1 | 2661.9 | 2527.2 | 2296.4 | 1993.8 | 1702.3 | 1559.4 | 1657.2  | 1718.5  | 2008.3 |
| 27.5° | 2970.8 | 2956.9 | 2890.4 | 2756.8 | 2502.3 | 2166.8 | 1836.5 | 1644.5 | 1720.8  | 1782.7  | 2090.4 |
| 30°   | 3256.6 | 3246.7 | 3169.8 | 3018.2 | 2730.8 | 2352.5 | 1989.8 | 1743.4 | 1803.0  | 1867.2  | 2198.0 |
| 32.5° | 3592.6 | 3588.0 | 3508.2 | 3313.2 | 2994.5 | 2571.1 | 2169.7 | 1874.1 | 1925.6  | 1992.1  | 2352.5 |
| 35°   | 3987.1 | 3987.7 | 3893.4 | 3659.1 | 3283.2 | 2825.6 | 2373.9 | 2042.4 | 2074.8  | 2144.2  | 2536.4 |
| 37.5° | 4230.1 | 4259.6 | 4224.3 | 3985.4 | 3610.0 | 3110.2 | 2638.8 | 2265.7 | 2244.9  | 2314.9  | 2733.7 |
| 40°   | 4282.1 | 4318.0 | 4429.6 | 4308.1 | 3975.5 | 3423.7 | 2873.6 | 2480.3 | 2454.3  | 2539.9  | 2987.6 |
| 42.5° | 4209.2 | 4259.0 | 4495.0 | 4580.6 | 4363.7 | 3810.1 | 3189.5 | 2799.0 | 2766.0  | 2881.2  | 3303.4 |
| 45°   | 4165.8 | 4202.9 | 4475.9 | 4722.3 | 4700.3 | 4246.8 | 3591.5 | 3199.3 | 3187.1  | 3338.1  | 3667.8 |
| 47.5° | 4090.7 | 4124.2 | 4386.8 | 4755.3 | 4898.1 | 4647.1 | 4074.5 | 3688.6 | 3712.4  | 3910.2  | 4079.1 |
| 50°   | 4131.1 | 4145.0 | 4287.3 | 4671.4 | 4955.4 | 4940.4 | 4614.1 | 4255.5 | 4336.5  | 4583.5  | 4544.7 |
| 52.5° | 4125.4 | 4161.2 | 4275.8 | 4533.7 | 4962.9 | 5121.4 | 5145.7 | 4887.7 | 5058.4  | 5341.8  | 5061.3 |
| 55°   | 3335.2 | 3401.2 | 4139.8 | 4499.0 | 4989.5 | 5299.0 | 5618.9 | 5554.1 | 5872.2  | 6202.5  | 5644.3 |
| 57.5° | 3184.8 | 3226.5 | 3636.0 | 4571.9 | 5130.7 | 5638.0 | 6145.2 | 6287.5 | 6819.7  | 7203.2  | 6354.6 |
| 60°   | 3155.3 | 3206.8 | 3630.8 | 4661.0 | 5417.0 | 6190.4 | 6925.5 | 7175.4 | 7972.5  | 8392.4  | 7178.3 |
| 62.5° | 3063.4 | 3118.9 | 3596.7 | 4649.4 | 5823.6 | 6954.5 | 7924.5 | 8119.4 | 9065.7  | 9474.1  | 7867.2 |
| 65°   | 2771.8 | 2823.9 | 3318.4 | 4462.6 | 6097.8 | 7770.0 | 9106.8 | 8984.7 | 9928.7  | 10235.9 | 8210.8 |
| 66°   | 2572.3 | 2623.2 | 3099.2 | 4242.8 | 6034.2 | 8001.4 | 9525.6 | 9252.6 | 10121.9 | 10362.6 | 8143.7 |
| 67.5° | 2207.3 | 2247.2 | 2673.5 | 3750.5 | 5695.8 | 8066.2 | 9877.8 | 9453.9 | 10142.2 | 10227.2 | 7760.2 |
| 70°   | 1394.6 | 1406.2 | 1737.6 | 2589.1 | 4311.6 | 6995.5 | 9341.6 | 8954.1 | 9305.8  | 9075.6  | 6505.6 |
| 72.5° | 605.0  | 601.0  | 834.1  | 1317.1 | 2441.0 | 4694.0 | 7556.6 | 7388.3 | 7299.8  | 6774.6  | 4554.0 |
| 75°   | 336.6  | 341.3  | 433.2  | 611.4  | 992.0  | 2305.6 | 4943.3 | 4730.4 | 3994.1  | 3408.1  | 2065.0 |
| 77.5° | 270.1  | 276.5  | 359.2  | 433.8  | 445.4  | 804.0  | 2313.1 | 1882.2 | 1133.1  | 909.3   | 573.8  |
| 80°   | 213.4  | 225.0  | 313.5  | 337.8  | 300.2  | 331.4  | 747.3  | 597.5  | 448.3   | 411.3   | 297.3  |
| 82.5° | 168.9  | 177.0  | 269.0  | 255.7  | 210.0  | 223.3  | 358.0  | 348.8  | 291.5   | 265.5   | 171.8  |
| 85°   | 121.5  | 136.5  | 221.0  | 192.6  | 137.7  | 150.4  | 237.7  | 227.9  | 167.2   | 136.5   | 75.8   |
| 87.5° | 49.7   | 64.8   | 156.2  | 127.8  | 76.9   | 70.0   | 118.6  | 111.6  | 79.2    | 57.8    | 37.6   |
| 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°    | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 | 1744.5 |
| 2.5°  | 1742.8 | 1756.7 | 1774.6 | 1785.6 | 1791.4 | 1795.4 | 1801.8 | 1801.2 | 1803.0 | 1803.5 | 1805.9 |
| 5°    | 1754.4 | 1777.5 | 1803.5 | 1810.5 | 1810.5 | 1804.1 | 1797.8 | 1787.3 | 1783.3 | 1782.1 | 1783.3 |
| 7.5°  | 1784.5 | 1809.9 | 1832.5 | 1824.4 | 1807.0 | 1781.6 | 1748.6 | 1719.7 | 1704.1 | 1698.8 | 1697.7 |
| 10°   | 1822.6 | 1853.3 | 1862.5 | 1831.9 | 1781.0 | 1719.7 | 1654.3 | 1606.9 | 1579.7 | 1572.2 | 1569.9 |
| 12.5° | 1868.9 | 1897.8 | 1885.1 | 1820.3 | 1726.0 | 1627.1 | 1536.9 | 1461.1 | 1404.4 | 1386.5 | 1385.3 |
| 15°   | 1919.8 | 1942.4 | 1897.8 | 1784.5 | 1643.9 | 1498.1 | 1337.3 | 1206.6 | 1136.0 | 1113.5 | 1111.7 |
| 17.5° | 1967.2 | 1978.8 | 1890.3 | 1722.0 | 1523.0 | 1287.0 | 1073.6 | 972.9  | 948.6  | 954.4  | 955.6  |
| 20°   | 2007.7 | 2007.7 | 1864.9 | 1632.3 | 1332.7 | 1008.8 | 874.0  | 872.3  | 889.6  | 907.0  | 910.4  |
| 22.5° | 2052.3 | 2025.7 | 1820.3 | 1505.7 | 1063.2 | 825.4  | 805.8  | 821.9  | 841.6  | 860.7  | 863.6  |
| 25°   | 2107.2 | 2040.1 | 1758.4 | 1313.6 | 835.8  | 749.6  | 757.2  | 770.5  | 780.3  | 792.4  | 794.2  |
| 27.5° | 2168.5 | 2058.6 | 1676.9 | 1049.3 | 725.4  | 702.2  | 708.0  | 712.6  | 711.5  | 716.1  | 717.3  |
| 30°   | 2242.0 | 2080.0 | 1565.2 | 820.2  | 679.7  | 661.7  | 651.3  | 647.3  | 647.3  | 654.8  | 657.7  |
| 32.5° | 2340.3 | 2111.8 | 1405.0 | 702.8  | 657.7  | 632.8  | 599.3  | 584.2  | 590.0  | 615.4  | 621.2  |
| 35°   | 2448.5 | 2146.0 | 1188.1 | 662.9  | 653.0  | 619.5  | 567.4  | 539.7  | 540.3  | 564.0  | 571.5  |
| 37.5° | 2566.5 | 2189.4 | 950.4  | 655.4  | 663.5  | 620.1  | 550.7  | 512.5  | 496.9  | 496.9  | 499.8  |
| 40°   | 2717.5 | 2233.9 | 769.3  | 660.6  | 685.4  | 627.0  | 542.0  | 491.1  | 447.1  | 448.3  | 450.6  |
| 42.5° | 2914.1 | 2272.1 | 672.1  | 671.6  | 712.0  | 636.3  | 541.4  | 462.7  | 424.6  | 450.6  | 474.3  |
| 45°   | 3132.8 | 2291.2 | 629.3  | 681.4  | 733.4  | 642.1  | 532.2  | 458.1  | 427.5  | 505.0  | 550.1  |
| 47.5° | 3384.4 | 2280.2 | 605.6  | 684.9  | 738.7  | 642.1  | 521.7  | 469.1  | 447.7  | 584.8  | 637.4  |
| 50°   | 3660.3 | 2248.4 | 582.5  | 677.9  | 736.9  | 640.9  | 531.6  | 480.1  | 455.2  | 598.7  | 635.1  |
| 52.5° | 3984.8 | 2221.7 | 558.2  | 662.9  | 724.8  | 634.5  | 543.1  | 475.5  | 431.5  | 544.3  | 569.8  |
| 55°   | 4355.0 | 2229.3 | 531.0  | 641.5  | 705.7  | 622.4  | 539.1  | 457.0  | 406.6  | 479.5  | 495.1  |
| 57.5° | 4828.2 | 2318.9 | 498.6  | 614.3  | 679.7  | 602.1  | 524.6  | 448.3  | 399.1  | 435.0  | 444.2  |
| 60°   | 5356.3 | 2475.1 | 458.1  | 587.1  | 647.3  | 569.8  | 513.6  | 452.3  | 402.6  | 431.5  | 436.1  |
| 62.5° | 5743.8 | 2565.9 | 423.4  | 547.2  | 603.3  | 533.9  | 499.8  | 457.5  | 411.8  | 443.7  | 442.5  |
| 65°   | 5849.1 | 2416.7 | 380.0  | 488.8  | 543.7  | 496.3  | 482.4  | 463.3  | 415.9  | 453.5  | 448.3  |
| 66°   | 5701.6 | 2255.9 | 360.9  | 461.6  | 513.6  | 477.8  | 473.7  | 462.7  | 414.2  | 454.6  | 446.0  |
| 67.5° | 5343.5 | 1926.2 | 328.0  | 421.7  | 465.6  | 450.0  | 459.9  | 457.5  | 409.5  | 453.5  | 441.3  |
| 70°   | 4357.9 | 1314.2 | 280.5  | 351.1  | 387.5  | 396.2  | 433.2  | 439.0  | 394.5  | 433.2  | 406.6  |
| 72.5° | 3044.9 | 800.5  | 248.1  | 272.4  | 313.5  | 337.8  | 396.8  | 413.6  | 374.2  | 378.3  | 352.8  |
| 75°   | 1471.5 | 425.1  | 225.0  | 211.1  | 243.5  | 282.3  | 352.8  | 378.9  | 342.4  | 316.4  | 307.1  |
| 77.5° | 458.7  | 259.7  | 190.9  | 170.1  | 190.9  | 227.9  | 295.0  | 332.0  | 304.8  | 264.9  | 261.5  |
| 80°   | 246.4  | 190.9  | 146.9  | 136.5  | 151.0  | 178.7  | 232.0  | 277.1  | 262.0  | 237.7  | 212.3  |
| 82.5° | 162.5  | 123.8  | 108.7  | 105.9  | 115.1  | 136.5  | 172.4  | 229.6  | 229.6  | 203.6  | 148.1  |
| 85°   | 83.9   | 75.8   | 74.6   | 74.6   | 80.4   | 90.8   | 117.4  | 177.0  | 188.6  | 107.6  | 89.1   |
| 87.5° | 41.6   | 43.4   | 40.5   | 42.2   | 45.1   | 44.5   | 56.1   | 89.1   | 106.4  | 65.4   | 54.4   |
| 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)