

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: P269912

Luminaire Tested: **GAP-AF-02-LED-U-T3R-7027-1200**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P269912  
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: GAP-AF-02-LED-U-T3R-7027-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12104.6 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

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

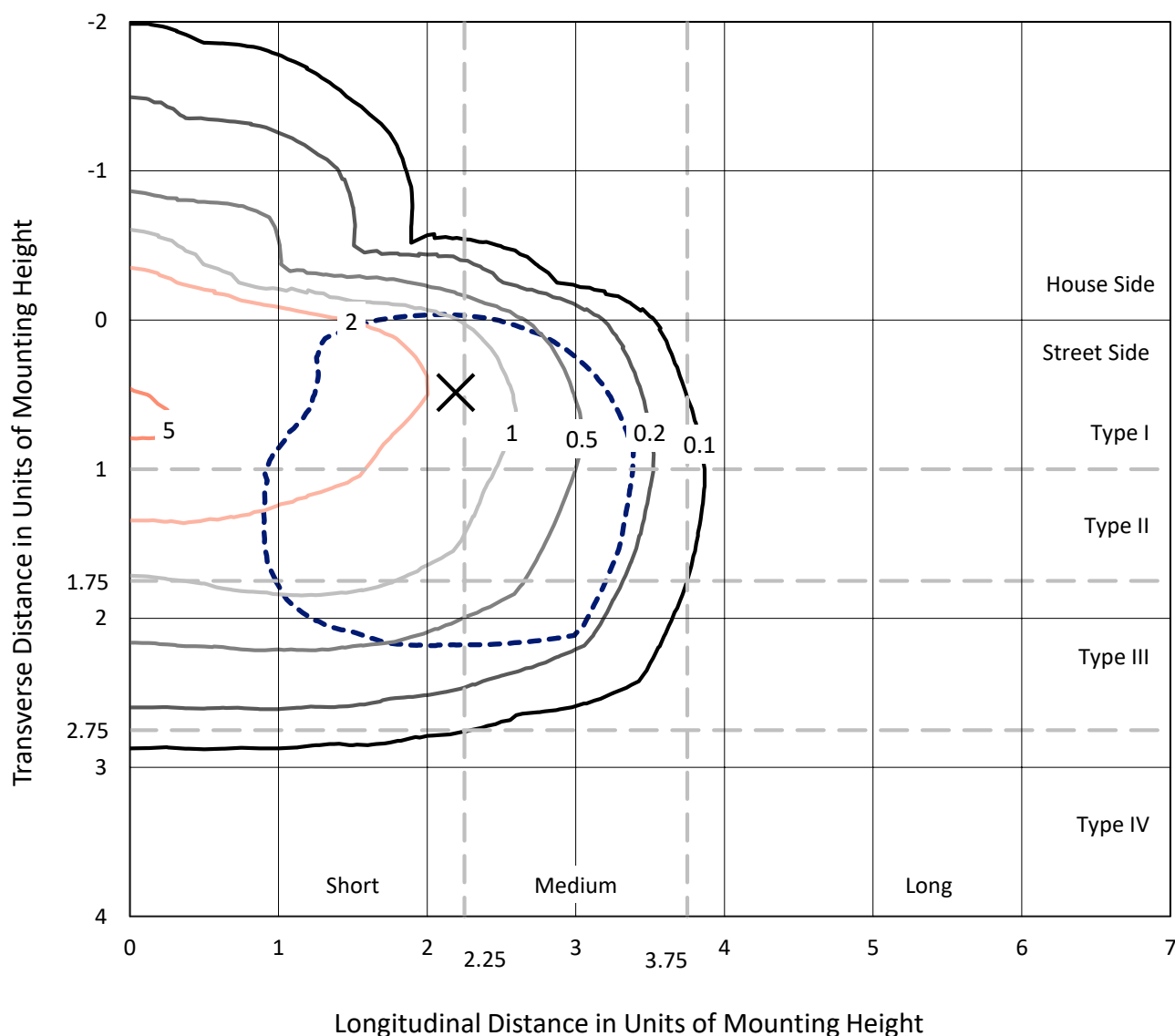


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

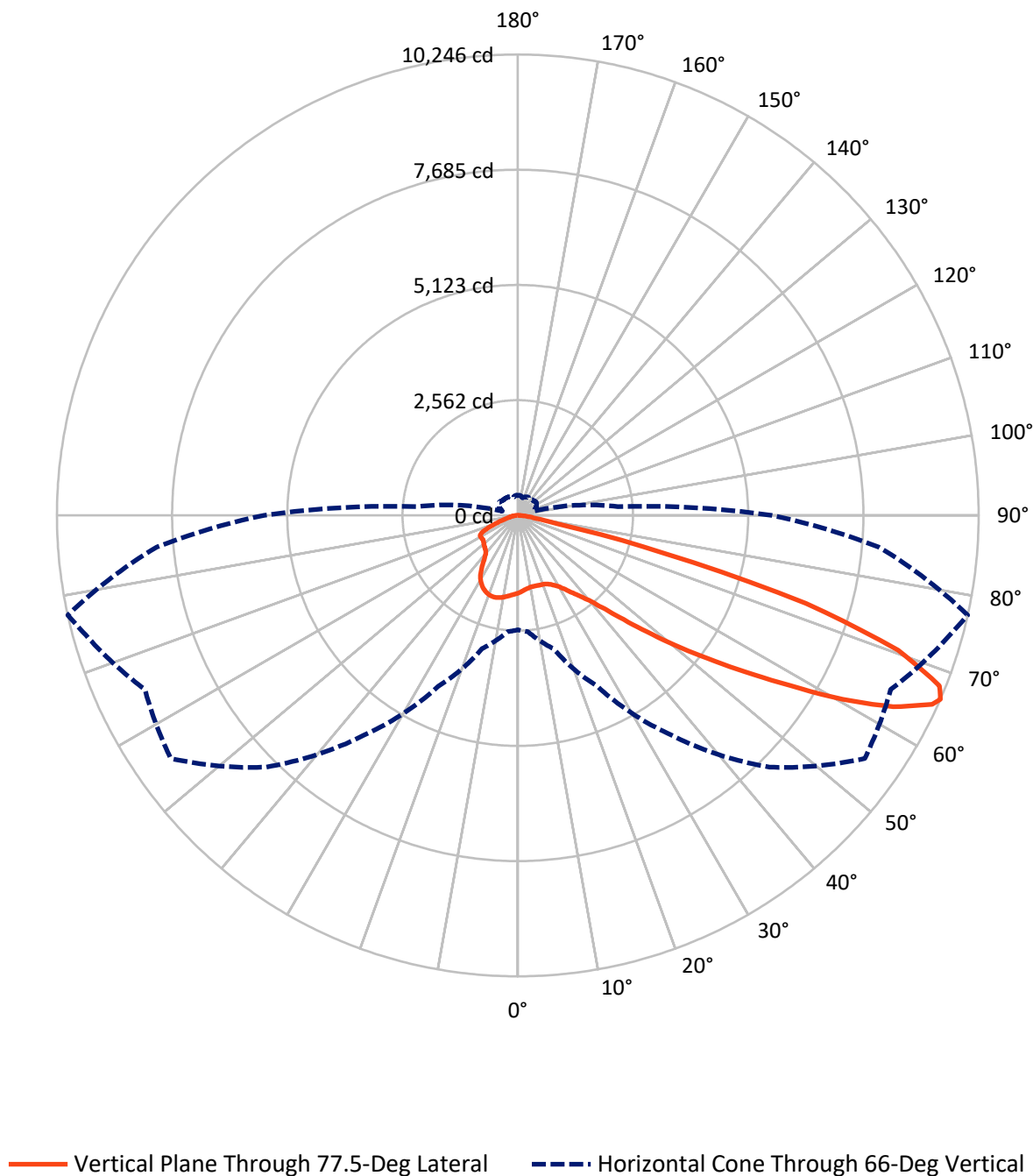


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2068.0   | 0.0    | 2068.0  |
|                    | % Fixture | 17.1     | 0.0    | 17.1    |
| <b>Street Side</b> | Lumens    | 10036.6  | 0.0    | 10036.6 |
|                    | % Fixture | 82.9     | 0.0    | 82.9    |
| <b>Total</b>       | Lumens    | 12104.6  | 0.0    | 12104.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 154.1   | 1.3       |
| 10°-20°   | 434.8   | 3.6       |
| 20°-30°   | 742.0   | 6.1       |
| 30°-40°   | 1187.8  | 9.8       |
| 40°-50°   | 1835.1  | 15.2      |
| 50°-60°   | 2602.8  | 21.5      |
| 60°-70°   | 3481.8  | 28.8      |
| 70°-80°   | 1512.1  | 12.5      |
| 80°-90°   | 154.2   | 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°    | 12104.6 | 100.0     |
| 0°-180°   | 12104.6 | 100.0     |

**Coefficient of Utilization**



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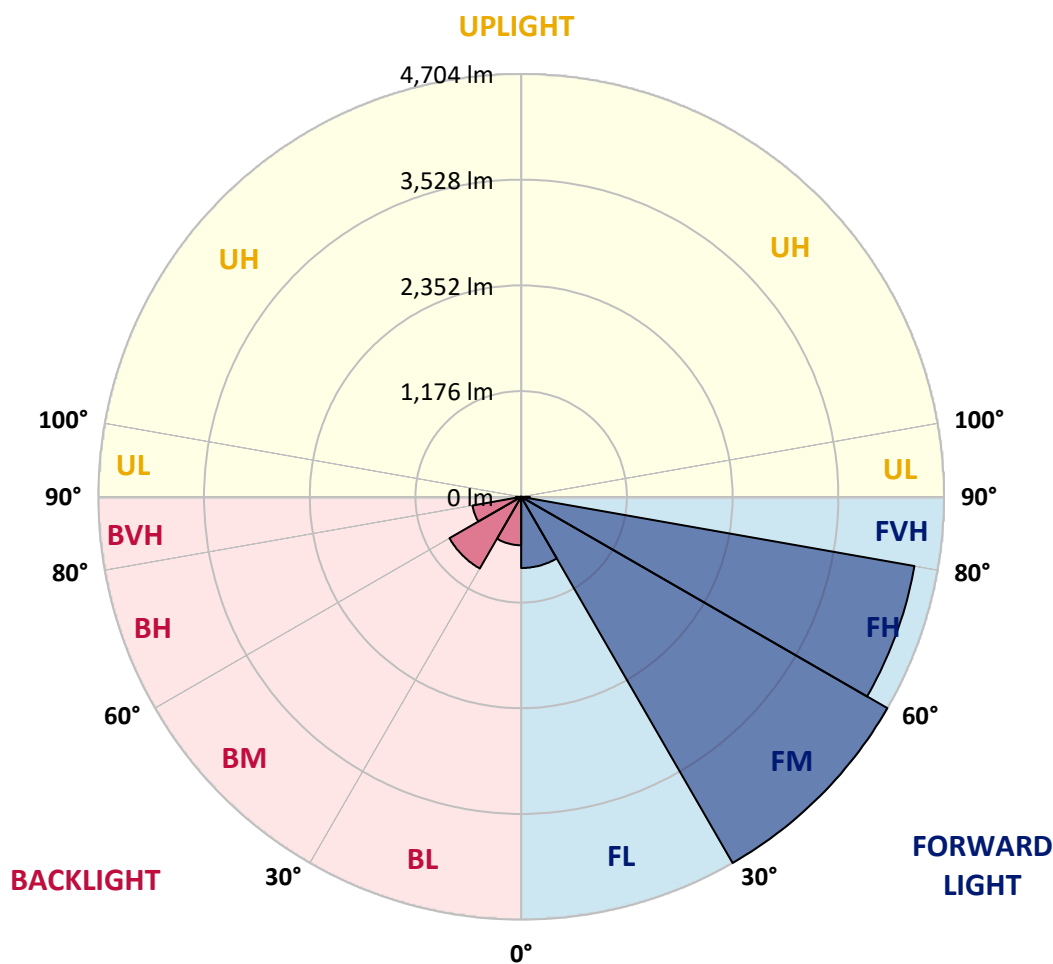
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 792.3  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 4704.5 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 4443.1 | 36.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 96.7   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 538.6  | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 921.2  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 550.7  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 57.5   | 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°    | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9  | 1724.9  | 1724.9 |
| 2.5°  | 1526.0 | 1536.2 | 1544.8 | 1552.8 | 1568.8 | 1595.1 | 1625.5 | 1650.0 | 1685.5  | 1692.3  | 1711.2 |
| 5°    | 1385.8 | 1385.8 | 1392.6 | 1404.7 | 1426.4 | 1465.9 | 1507.0 | 1562.0 | 1639.1  | 1657.5  | 1707.8 |
| 7.5°  | 1317.8 | 1318.4 | 1322.3 | 1332.6 | 1351.5 | 1387.5 | 1432.6 | 1497.4 | 1601.9  | 1632.3  | 1718.1 |
| 10°   | 1342.8 | 1337.1 | 1328.7 | 1323.5 | 1326.3 | 1347.5 | 1390.3 | 1462.4 | 1579.1  | 1617.9  | 1740.9 |
| 12.5° | 1483.6 | 1472.7 | 1442.9 | 1403.5 | 1365.9 | 1350.3 | 1375.6 | 1445.8 | 1569.3  | 1614.6  | 1771.3 |
| 15°   | 1713.5 | 1708.9 | 1653.5 | 1571.7 | 1480.1 | 1403.5 | 1386.4 | 1439.5 | 1570.5  | 1618.6  | 1807.3 |
| 17.5° | 2001.9 | 1995.4 | 1922.4 | 1803.3 | 1654.0 | 1504.8 | 1424.7 | 1444.7 | 1574.5  | 1625.5  | 1842.2 |
| 20°   | 2293.0 | 2273.4 | 2194.5 | 2052.6 | 1861.1 | 1642.6 | 1488.2 | 1457.9 | 1579.7  | 1632.8  | 1878.8 |
| 22.5° | 2510.3 | 2494.2 | 2423.3 | 2285.5 | 2064.8 | 1802.2 | 1573.4 | 1480.8 | 1596.3  | 1654.6  | 1924.0 |
| 25°   | 2701.3 | 2702.5 | 2632.0 | 2498.7 | 2270.6 | 1971.5 | 1683.2 | 1541.9 | 1638.6  | 1699.2  | 1985.8 |
| 27.5° | 2937.5 | 2923.8 | 2858.0 | 2725.8 | 2474.2 | 2142.5 | 1816.0 | 1626.0 | 1701.5  | 1762.7  | 2067.0 |
| 30°   | 3220.1 | 3210.4 | 3134.2 | 2984.3 | 2700.1 | 2326.2 | 1967.5 | 1723.8 | 1782.7  | 1846.1  | 2173.4 |
| 32.5° | 3552.3 | 3547.8 | 3468.9 | 3276.1 | 2961.0 | 2542.3 | 2145.3 | 1853.1 | 1904.0  | 1969.8  | 2326.2 |
| 35°   | 3942.4 | 3942.9 | 3849.6 | 3618.1 | 3246.4 | 2793.9 | 2347.2 | 2019.5 | 2051.5  | 2120.2  | 2508.0 |
| 37.5° | 4182.6 | 4211.8 | 4176.8 | 3940.7 | 3569.4 | 3075.3 | 2609.1 | 2240.4 | 2219.7  | 2288.9  | 2703.0 |
| 40°   | 4234.0 | 4269.6 | 4379.9 | 4259.9 | 3931.0 | 3385.4 | 2841.3 | 2452.5 | 2426.7  | 2511.4  | 2954.0 |
| 42.5° | 4161.9 | 4211.2 | 4444.5 | 4529.2 | 4314.6 | 3767.3 | 3153.7 | 2767.6 | 2735.0  | 2848.9  | 3266.3 |
| 45°   | 4119.1 | 4155.6 | 4425.7 | 4669.3 | 4647.7 | 4199.1 | 3551.2 | 3163.4 | 3151.3  | 3300.6  | 3626.6 |
| 47.5° | 4044.8 | 4077.9 | 4337.6 | 4701.9 | 4843.2 | 4594.9 | 4028.7 | 3647.3 | 3670.7  | 3866.2  | 4033.3 |
| 50°   | 4084.9 | 4098.4 | 4239.2 | 4618.9 | 4899.7 | 4885.0 | 4562.3 | 4207.8 | 4287.8  | 4531.9  | 4493.7 |
| 52.5° | 4079.1 | 4114.5 | 4227.8 | 4482.8 | 4907.3 | 5063.9 | 5088.0 | 4832.9 | 5001.7  | 5281.9  | 5004.5 |
| 55°   | 3297.8 | 3363.0 | 4093.3 | 4448.5 | 4933.5 | 5239.5 | 5555.7 | 5491.8 | 5806.4  | 6132.9  | 5581.0 |
| 57.5° | 3149.1 | 3190.3 | 3595.1 | 4520.6 | 5073.1 | 5574.7 | 6076.2 | 6217.0 | 6743.1  | 7122.3  | 6283.4 |
| 60°   | 3120.0 | 3170.8 | 3590.0 | 4608.7 | 5356.2 | 6121.0 | 6847.8 | 7095.0 | 7883.0  | 8298.3  | 7097.8 |
| 62.5° | 3028.9 | 3083.9 | 3556.3 | 4597.3 | 5758.2 | 6876.4 | 7835.6 | 8028.3 | 8963.9  | 9367.7  | 7779.0 |
| 65°   | 2740.6 | 2792.2 | 3281.1 | 4412.6 | 6029.3 | 7682.8 | 9004.6 | 8883.9 | 9817.2  | 10121.1 | 8118.6 |
| 66°   | 2543.5 | 2593.8 | 3064.5 | 4195.2 | 5966.5 | 7911.6 | 9418.6 | 9148.7 | 10008.3 | 10246.2 | 8052.2 |
| 67.5° | 2182.5 | 2222.0 | 2643.5 | 3708.5 | 5631.8 | 7975.7 | 9767.0 | 9347.8 | 10028.4 | 10112.4 | 7673.1 |
| 70°   | 1379.0 | 1390.3 | 1718.1 | 2560.0 | 4263.3 | 6916.9 | 9236.8 | 8853.5 | 9201.2  | 8973.7  | 6432.7 |
| 72.5° | 598.2  | 594.3  | 824.7  | 1302.4 | 2413.6 | 4641.3 | 7471.8 | 7305.3 | 7217.8  | 6698.5  | 4502.8 |
| 75°   | 332.8  | 337.5  | 428.4  | 604.5  | 980.9  | 2279.8 | 4887.8 | 4677.4 | 3949.2  | 3369.8  | 2041.8 |
| 77.5° | 267.1  | 273.4  | 355.2  | 428.9  | 440.3  | 795.0  | 2287.2 | 1861.1 | 1120.5  | 899.2   | 567.4  |
| 80°   | 211.0  | 222.5  | 309.9  | 334.0  | 296.8  | 327.7  | 738.9  | 590.8  | 443.3   | 406.7   | 293.9  |
| 82.5° | 167.1  | 175.0  | 266.0  | 252.9  | 207.6  | 220.8  | 354.0  | 344.9  | 288.3   | 262.6   | 169.9  |
| 85°   | 120.2  | 134.9  | 218.5  | 190.4  | 136.2  | 148.7  | 235.0  | 225.4  | 165.3   | 134.9   | 74.9   |
| 87.5° | 49.1   | 64.0   | 154.4  | 126.4  | 76.0   | 69.2   | 117.3  | 110.4  | 78.3    | 57.2    | 37.2   |
| 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°    | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 | 1724.9 |
| 2.5°  | 1723.3 | 1737.0 | 1754.7 | 1765.6 | 1771.3 | 1775.3 | 1781.6 | 1781.0 | 1782.7 | 1783.2 | 1785.7 |
| 5°    | 1734.6 | 1757.5 | 1783.2 | 1790.1 | 1790.1 | 1783.9 | 1777.6 | 1767.2 | 1763.4 | 1762.1 | 1763.4 |
| 7.5°  | 1764.5 | 1789.7 | 1811.9 | 1803.8 | 1786.6 | 1761.5 | 1729.0 | 1700.4 | 1685.0 | 1679.8 | 1678.7 |
| 10°   | 1802.2 | 1832.5 | 1841.6 | 1811.3 | 1760.9 | 1700.4 | 1635.8 | 1588.8 | 1562.0 | 1554.5 | 1552.2 |
| 12.5° | 1848.0 | 1876.5 | 1864.0 | 1799.8 | 1706.7 | 1608.9 | 1519.7 | 1444.7 | 1388.7 | 1371.0 | 1369.7 |
| 15°   | 1898.3 | 1920.5 | 1876.5 | 1764.5 | 1625.5 | 1481.3 | 1322.3 | 1193.0 | 1123.3 | 1101.1 | 1099.3 |
| 17.5° | 1945.2 | 1956.6 | 1869.2 | 1702.6 | 1505.9 | 1272.5 | 1061.4 | 962.1  | 938.0  | 943.7  | 944.8  |
| 20°   | 1985.3 | 1985.3 | 1844.0 | 1614.1 | 1317.8 | 997.5  | 864.2  | 862.6  | 879.6  | 896.8  | 900.2  |
| 22.5° | 2029.2 | 2003.0 | 1799.8 | 1488.8 | 1051.2 | 816.2  | 796.6  | 812.7  | 832.2  | 851.1  | 853.8  |
| 25°   | 2083.6 | 2017.2 | 1738.7 | 1298.9 | 826.4  | 741.2  | 748.6  | 761.9  | 771.6  | 783.5  | 785.3  |
| 27.5° | 2144.3 | 2035.5 | 1658.0 | 1037.5 | 717.1  | 694.3  | 700.0  | 704.6  | 703.6  | 708.0  | 709.2  |
| 30°   | 2216.8 | 2056.7 | 1547.7 | 811.0  | 672.0  | 654.2  | 644.1  | 640.0  | 640.0  | 647.4  | 650.4  |
| 32.5° | 2314.0 | 2088.1 | 1389.1 | 694.8  | 650.4  | 625.7  | 592.5  | 577.7  | 583.4  | 608.5  | 614.4  |
| 35°   | 2421.0 | 2121.8 | 1174.8 | 655.5  | 645.7  | 612.6  | 561.1  | 533.7  | 534.2  | 557.7  | 565.0  |
| 37.5° | 2537.7 | 2164.7 | 939.6  | 647.9  | 656.0  | 613.2  | 544.6  | 506.7  | 491.4  | 491.4  | 494.2  |
| 40°   | 2687.0 | 2208.8 | 760.7  | 653.2  | 677.7  | 620.0  | 535.8  | 485.5  | 442.1  | 443.3  | 445.5  |
| 42.5° | 2881.5 | 2246.7 | 664.6  | 663.9  | 704.0  | 629.2  | 535.3  | 457.5  | 419.8  | 445.5  | 468.9  |
| 45°   | 3097.6 | 2265.4 | 622.3  | 673.8  | 725.2  | 634.8  | 526.1  | 452.9  | 422.7  | 499.3  | 544.0  |
| 47.5° | 3346.4 | 2254.6 | 598.8  | 677.2  | 730.3  | 634.8  | 515.8  | 463.9  | 442.7  | 578.1  | 630.3  |
| 50°   | 3619.2 | 2223.1 | 576.0  | 670.3  | 728.6  | 633.8  | 525.6  | 474.8  | 450.1  | 592.0  | 627.9  |
| 52.5° | 3940.1 | 2196.8 | 551.9  | 655.5  | 716.7  | 627.5  | 537.0  | 470.2  | 426.6  | 538.2  | 563.3  |
| 55°   | 4306.1 | 2204.3 | 525.0  | 634.3  | 697.8  | 615.3  | 533.1  | 451.8  | 402.1  | 474.1  | 489.5  |
| 57.5° | 4774.0 | 2293.0 | 493.0  | 607.4  | 672.0  | 595.3  | 518.7  | 443.3  | 394.6  | 430.1  | 439.2  |
| 60°   | 5296.1 | 2447.3 | 452.9  | 580.6  | 640.0  | 563.3  | 507.9  | 447.3  | 398.0  | 426.6  | 431.2  |
| 62.5° | 5679.4 | 2537.2 | 418.7  | 541.0  | 596.6  | 527.9  | 494.2  | 452.3  | 407.2  | 438.7  | 437.6  |
| 65°   | 5783.5 | 2389.5 | 375.9  | 483.3  | 537.6  | 490.7  | 477.0  | 458.1  | 411.2  | 448.4  | 443.3  |
| 66°   | 5637.7 | 2230.5 | 356.8  | 456.3  | 507.9  | 472.4  | 468.5  | 457.5  | 409.4  | 449.5  | 441.0  |
| 67.5° | 5283.7 | 1904.5 | 324.3  | 417.0  | 460.4  | 445.0  | 454.7  | 452.3  | 405.0  | 448.4  | 436.3  |
| 70°   | 4309.0 | 1299.5 | 277.3  | 347.1  | 383.1  | 391.8  | 428.4  | 434.2  | 390.0  | 428.4  | 402.1  |
| 72.5° | 3010.7 | 791.5  | 245.3  | 269.4  | 309.9  | 334.0  | 392.4  | 409.0  | 370.0  | 374.1  | 348.9  |
| 75°   | 1455.1 | 420.3  | 222.5  | 208.8  | 240.7  | 279.2  | 348.9  | 374.7  | 338.7  | 312.9  | 303.6  |
| 77.5° | 453.6  | 256.7  | 188.7  | 168.2  | 188.7  | 225.4  | 291.7  | 328.3  | 301.4  | 261.9  | 258.5  |
| 80°   | 243.6  | 188.7  | 145.3  | 134.9  | 149.3  | 176.7  | 229.3  | 274.0  | 259.2  | 235.0  | 209.9  |
| 82.5° | 160.6  | 122.3  | 107.5  | 104.7  | 113.8  | 134.9  | 170.5  | 227.0  | 227.0  | 201.3  | 146.5  |
| 85°   | 83.0   | 74.9   | 73.8   | 73.8   | 79.5   | 89.8   | 116.2  | 175.0  | 186.5  | 106.4  | 88.0   |
| 87.5° | 41.2   | 42.8   | 40.1   | 41.7   | 44.6   | 44.0   | 55.4   | 88.0   | 105.2  | 64.6   | 53.8   |
| 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)