

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: P200058

Luminaire Tested: **GAW-AF-02-LED-U-T4W-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200058  
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: GAW-AF-02-LED-U-T4W-7030-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13088.2 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

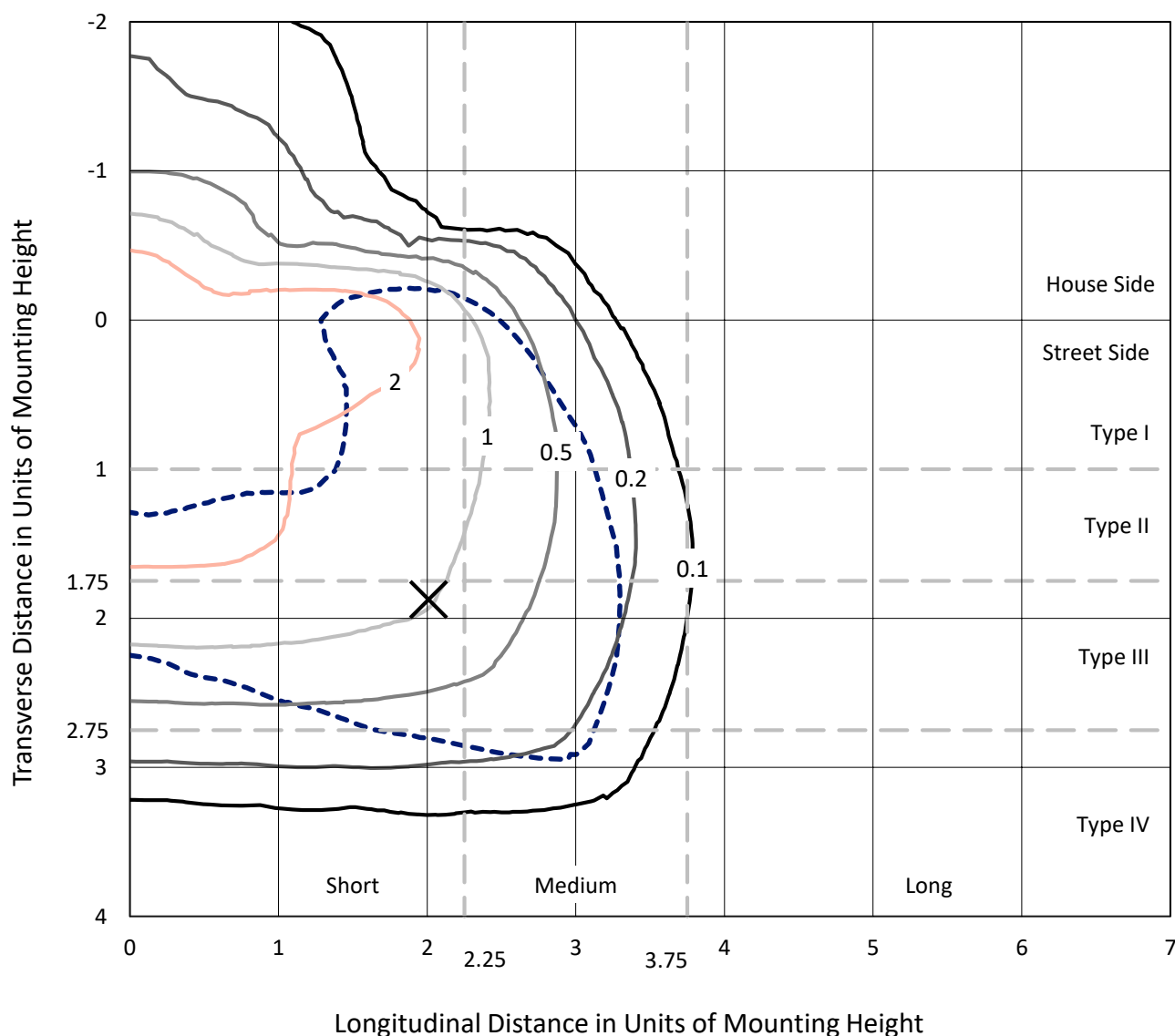


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

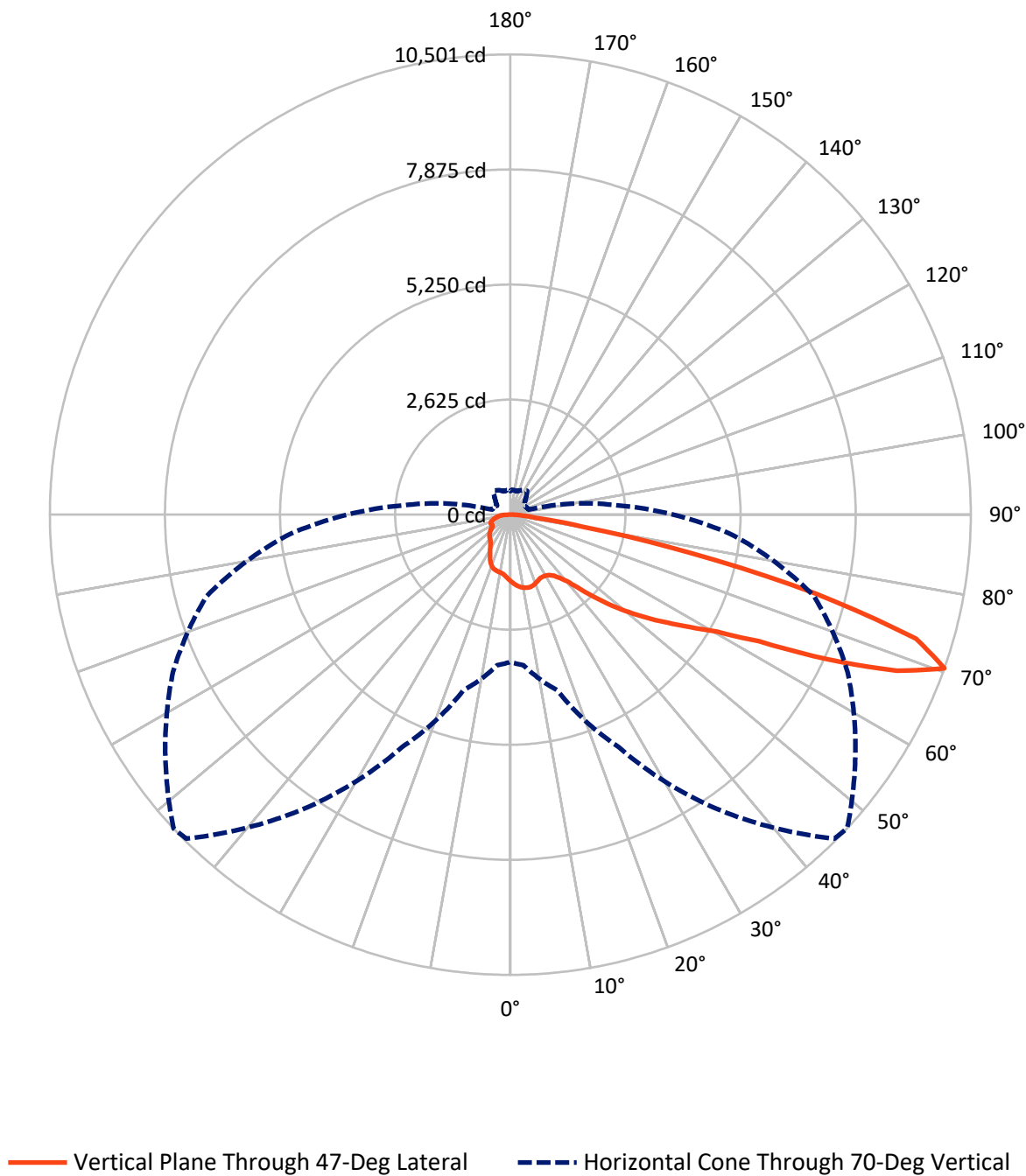


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2730.4   | 0.0    | 2730.4  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 10357.7  | 0.0    | 10357.7 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 13088.2  | 0.0    | 13088.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 145.5   | 1.1       |
| 10°-20°   | 426.9   | 3.3       |
| 20°-30°   | 630.4   | 4.8       |
| 30°-40°   | 916.3   | 7.0       |
| 40°-50°   | 1649.0  | 12.6      |
| 50°-60°   | 2856.7  | 21.8      |
| 60°-70°   | 4077.3  | 31.2      |
| 70°-80°   | 2093.1  | 16.0      |
| 80°-90°   | 293.0   | 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°    | 13088.2 | 100.0     |
| 0°-180°   | 13088.2 | 100.0     |

**Coefficient of Utilization**



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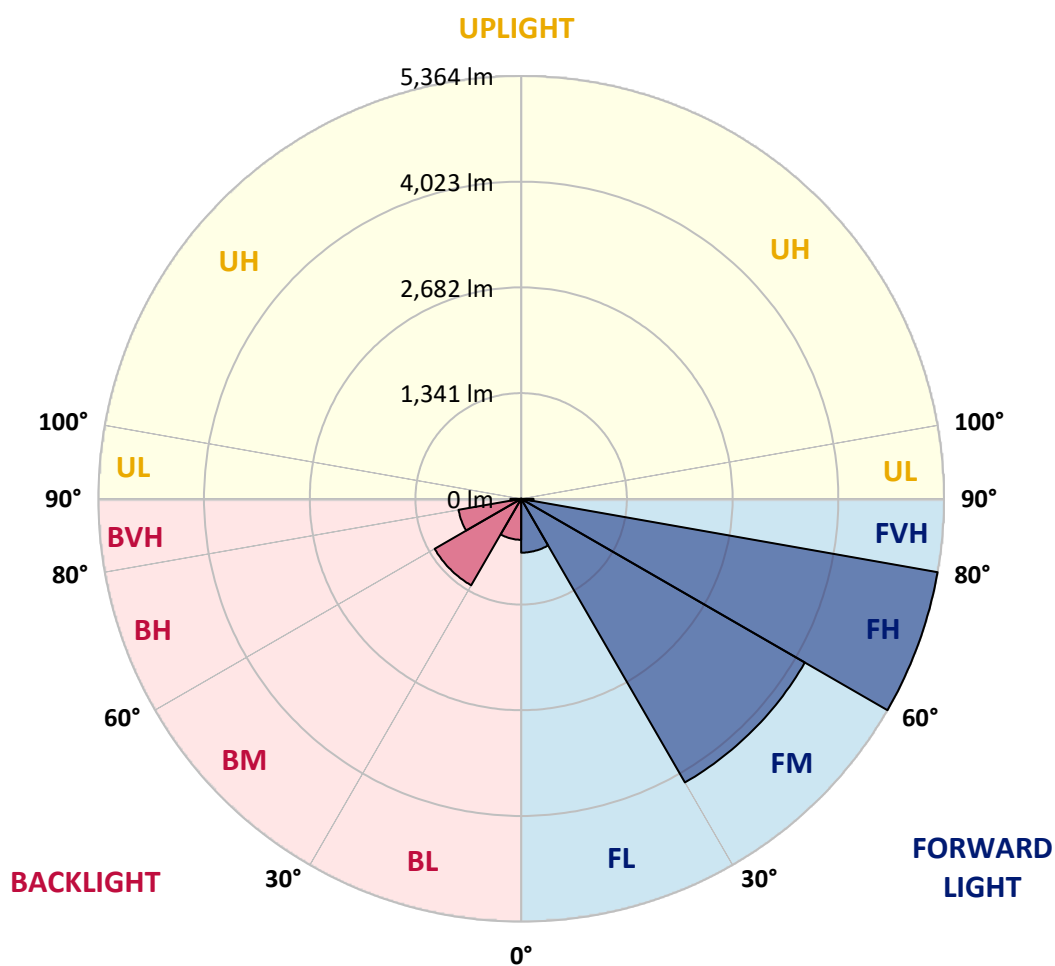
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 682.9  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 4154.6 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 5363.9 | 41.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 156.4  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 519.9  | 4.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1267.4 | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 806.5  | 6.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 136.7  | 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°    | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6  | 1518.6  | 1518.6 | 1518.6 | 1518.6 | 1518.6 |
| 2.5°  | 1607.7 | 1604.6 | 1603.3 | 1600.7 | 1597.6 | 1581.6  | 1578.5  | 1567.0 | 1551.2 | 1534.5 | 1517.4 |
| 5°    | 1713.5 | 1712.8 | 1705.9 | 1693.1 | 1672.8 | 1637.7  | 1629.4  | 1601.4 | 1563.8 | 1527.6 | 1491.3 |
| 7.5°  | 1806.5 | 1800.7 | 1787.4 | 1762.0 | 1726.2 | 1678.4  | 1667.0  | 1628.2 | 1576.6 | 1526.9 | 1477.8 |
| 10°   | 1874.6 | 1871.4 | 1842.1 | 1807.0 | 1760.6 | 1707.7  | 1694.4  | 1651.1 | 1594.4 | 1531.4 | 1470.2 |
| 12.5° | 1913.4 | 1907.0 | 1873.2 | 1831.3 | 1775.9 | 1724.3  | 1710.9  | 1667.0 | 1603.3 | 1531.4 | 1459.3 |
| 15°   | 1910.8 | 1906.5 | 1872.7 | 1826.9 | 1770.8 | 1725.5  | 1713.5  | 1669.6 | 1601.4 | 1525.0 | 1445.4 |
| 17.5° | 1859.9 | 1861.9 | 1833.2 | 1788.0 | 1742.1 | 1707.7  | 1696.9  | 1656.2 | 1588.6 | 1512.2 | 1428.9 |
| 20°   | 1770.8 | 1779.8 | 1760.6 | 1720.5 | 1695.0 | 1671.4  | 1664.4  | 1630.0 | 1569.0 | 1493.8 | 1411.0 |
| 22.5° | 1681.6 | 1689.9 | 1682.3 | 1648.5 | 1644.7 | 1630.7  | 1626.9  | 1602.1 | 1551.7 | 1482.3 | 1400.1 |
| 25°   | 1616.1 | 1623.7 | 1622.4 | 1593.1 | 1604.6 | 1603.9  | 1600.7  | 1588.6 | 1547.8 | 1482.3 | 1402.2 |
| 27.5° | 1598.3 | 1600.7 | 1598.3 | 1571.4 | 1587.4 | 1600.1  | 1597.6  | 1595.7 | 1559.3 | 1500.7 | 1426.3 |
| 30°   | 1659.3 | 1655.5 | 1635.8 | 1581.6 | 1596.3 | 1614.2  | 1611.6  | 1612.8 | 1593.8 | 1549.2 | 1480.5 |
| 32.5° | 1903.2 | 1886.1 | 1823.6 | 1671.4 | 1632.7 | 1642.1  | 1643.5  | 1664.4 | 1667.7 | 1623.7 | 1564.5 |
| 35°   | 2268.1 | 2249.0 | 2168.1 | 1912.1 | 1745.3 | 1712.2  | 1712.2  | 1744.0 | 1763.1 | 1730.6 | 1695.0 |
| 37.5° | 2654.6 | 2633.5 | 2590.3 | 2245.9 | 1982.2 | 1833.8  | 1830.6  | 1852.9 | 1880.4 | 1888.0 | 1896.8 |
| 40°   | 3093.9 | 3071.6 | 3083.8 | 2620.2 | 2312.7 | 2044.6  | 1999.3  | 1983.5 | 2057.4 | 2106.3 | 2177.6 |
| 42.5° | 3574.6 | 3564.5 | 3569.0 | 3037.3 | 2689.0 | 2359.8  | 2295.4  | 2213.4 | 2302.4 | 2389.7 | 2539.3 |
| 45°   | 4019.7 | 4028.7 | 4024.2 | 3483.6 | 3108.0 | 2744.4  | 2676.2  | 2517.0 | 2604.3 | 2753.9 | 2997.7 |
| 47.5° | 4409.4 | 4372.5 | 4429.8 | 3971.3 | 3577.2 | 3174.8  | 3090.7  | 2877.5 | 2966.0 | 3150.6 | 3563.3 |
| 50°   | 4882.6 | 4877.5 | 4793.4 | 4622.1 | 4144.5 | 3607.2  | 3497.0  | 3249.9 | 3387.5 | 3644.2 | 4275.8 |
| 52.5° | 5379.8 | 5287.5 | 5210.5 | 5128.3 | 4746.3 | 4050.3  | 3915.3  | 3621.2 | 3882.8 | 4205.7 | 5144.3 |
| 55°   | 5481.7 | 5440.3 | 5535.8 | 5674.1 | 5326.4 | 4510.7  | 4353.4  | 4086.7 | 4440.7 | 4847.5 | 6145.9 |
| 57.5° | 5699.5 | 5698.9 | 5896.2 | 6142.7 | 5923.6 | 4999.0  | 4840.5  | 4648.9 | 5067.9 | 5582.9 | 7209.3 |
| 60°   | 5846.6 | 5888.0 | 6254.8 | 6732.9 | 6510.1 | 5563.3  | 5417.4  | 5297.8 | 5781.0 | 6405.0 | 8200.0 |
| 62.5° | 5923.6 | 5979.6 | 6480.1 | 6972.4 | 7339.2 | 6502.4  | 6356.6  | 6184.1 | 6724.7 | 7306.6 | 8779.4 |
| 65°   | 5603.4 | 5713.5 | 6445.1 | 7179.3 | 8065.0 | 8024.9  | 7959.3  | 7656.3 | 7904.6 | 8019.2 | 8570.0 |
| 67.5° | 4717.0 | 4829.7 | 5681.7 | 6986.4 | 8583.3 | 9493.2  | 9507.2  | 8989.6 | 8630.4 | 8080.3 | 7205.4 |
| 70°   | 3360.7 | 3449.2 | 4154.1 | 5857.4 | 8188.6 | 10452.9 | 10500.6 | 9604.0 | 8485.8 | 7165.9 | 5034.1 |
| 72.5° | 1595.7 | 1649.9 | 2317.1 | 3812.2 | 6497.9 | 9577.2  | 9669.6  | 8819.5 | 7215.6 | 5305.3 | 2746.2 |
| 75°   | 586.4  | 603.0  | 783.2  | 1621.7 | 3768.9 | 7062.7  | 7171.7  | 6322.3 | 4783.3 | 2641.3 | 1046.1 |
| 77.5° | 351.5  | 362.3  | 439.3  | 684.5  | 1482.3 | 4036.9  | 4198.1  | 3438.4 | 2090.4 | 983.2  | 514.5  |
| 80°   | 245.9  | 253.4  | 315.2  | 426.0  | 700.5  | 1538.4  | 1681.6  | 1403.4 | 832.9  | 622.1  | 374.4  |
| 82.5° | 166.2  | 170.0  | 221.6  | 287.8  | 465.5  | 549.5   | 592.8   | 624.0  | 561.6  | 462.9  | 237.5  |
| 85°   | 108.9  | 112.7  | 150.2  | 189.8  | 296.1  | 284.0   | 290.3   | 367.4  | 410.0  | 314.5  | 131.7  |
| 87.5° | 62.4   | 64.9   | 90.4   | 101.3  | 145.2  | 120.3   | 121.6   | 193.6  | 262.3  | 212.1  | 80.2   |
| 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°    | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 | 1518.6 |
| 2.5°  | 1512.9 | 1504.6 | 1486.2 | 1474.7 | 1463.8 | 1461.4 | 1456.9 | 1456.2 | 1455.6 | 1455.6 | 1453.7 |
| 5°    | 1479.2 | 1465.1 | 1436.5 | 1420.6 | 1407.1 | 1405.9 | 1405.3 | 1408.5 | 1409.8 | 1411.0 | 1409.1 |
| 7.5°  | 1457.5 | 1438.4 | 1402.8 | 1379.8 | 1363.9 | 1360.1 | 1366.5 | 1381.1 | 1390.7 | 1394.4 | 1392.5 |
| 10°   | 1444.2 | 1420.6 | 1379.2 | 1354.4 | 1340.9 | 1339.1 | 1347.3 | 1364.5 | 1384.4 | 1392.0 | 1391.3 |
| 12.5° | 1428.9 | 1402.2 | 1358.2 | 1332.1 | 1324.4 | 1328.3 | 1339.1 | 1355.1 | 1375.3 | 1387.5 | 1388.1 |
| 15°   | 1413.6 | 1382.3 | 1337.2 | 1314.3 | 1311.0 | 1316.1 | 1326.3 | 1338.4 | 1354.4 | 1366.5 | 1367.7 |
| 17.5° | 1395.1 | 1362.7 | 1317.4 | 1293.8 | 1291.3 | 1293.8 | 1294.5 | 1300.8 | 1311.0 | 1322.5 | 1325.8 |
| 20°   | 1375.3 | 1342.2 | 1295.2 | 1271.6 | 1260.1 | 1249.9 | 1238.5 | 1239.8 | 1243.0 | 1254.4 | 1256.9 |
| 22.5° | 1361.4 | 1328.3 | 1277.9 | 1245.4 | 1214.9 | 1184.4 | 1161.4 | 1158.2 | 1159.5 | 1169.1 | 1172.3 |
| 25°   | 1362.7 | 1327.6 | 1273.5 | 1217.4 | 1150.6 | 1101.6 | 1071.0 | 1066.0 | 1065.3 | 1072.3 | 1076.8 |
| 27.5° | 1387.5 | 1352.4 | 1290.1 | 1188.8 | 1080.6 | 1007.9 | 975.4  | 971.7  | 966.6  | 968.5  | 973.6  |
| 30°   | 1442.9 | 1410.4 | 1330.1 | 1159.5 | 1004.7 | 916.2  | 882.5  | 878.7  | 871.7  | 868.5  | 872.3  |
| 32.5° | 1533.2 | 1506.5 | 1388.6 | 1131.5 | 929.0  | 837.9  | 803.6  | 795.3  | 790.8  | 787.0  | 790.2  |
| 35°   | 1683.5 | 1672.1 | 1467.1 | 1100.9 | 862.2  | 777.5  | 746.2  | 733.5  | 727.1  | 734.1  | 739.2  |
| 37.5° | 1919.1 | 1925.4 | 1569.6 | 1053.1 | 810.6  | 737.4  | 711.3  | 696.6  | 687.0  | 692.8  | 698.5  |
| 40°   | 2252.8 | 2257.3 | 1682.9 | 985.6  | 766.0  | 713.8  | 685.8  | 672.4  | 659.1  | 648.9  | 648.2  |
| 42.5° | 2690.8 | 2645.7 | 1794.4 | 912.5  | 714.4  | 699.1  | 667.9  | 651.4  | 631.0  | 603.0  | 597.3  |
| 45°   | 3210.5 | 3051.9 | 1879.0 | 828.4  | 656.4  | 681.3  | 648.2  | 625.3  | 593.5  | 562.9  | 559.7  |
| 47.5° | 3809.0 | 3488.1 | 1920.4 | 741.3  | 602.3  | 655.2  | 624.0  | 587.7  | 547.6  | 532.3  | 530.5  |
| 50°   | 4539.9 | 4005.8 | 1940.1 | 656.4  | 555.2  | 620.8  | 589.0  | 546.3  | 512.5  | 509.3  | 507.5  |
| 52.5° | 5372.2 | 4628.4 | 1946.6 | 587.0  | 516.4  | 576.3  | 560.3  | 519.0  | 492.2  | 494.7  | 494.7  |
| 55°   | 6243.3 | 5271.6 | 1859.9 | 536.8  | 480.7  | 530.5  | 541.3  | 508.2  | 485.8  | 496.0  | 499.9  |
| 57.5° | 7043.1 | 5841.4 | 1587.4 | 497.9  | 447.0  | 495.4  | 534.3  | 518.3  | 503.0  | 544.4  | 547.0  |
| 60°   | 7656.9 | 6178.3 | 1185.6 | 462.9  | 422.2  | 483.3  | 552.8  | 557.1  | 560.9  | 659.7  | 673.0  |
| 62.5° | 7785.5 | 6066.3 | 815.1  | 435.5  | 410.7  | 493.6  | 586.4  | 587.0  | 582.6  | 651.4  | 659.7  |
| 65°   | 7195.2 | 5357.5 | 592.8  | 420.2  | 401.2  | 512.0  | 615.1  | 601.7  | 572.4  | 624.6  | 609.3  |
| 67.5° | 5714.2 | 4036.4 | 493.6  | 408.7  | 387.1  | 510.7  | 645.6  | 615.1  | 566.7  | 612.0  | 587.0  |
| 70°   | 3709.1 | 2440.7 | 439.3  | 399.3  | 370.6  | 486.4  | 663.5  | 613.8  | 550.1  | 569.2  | 540.0  |
| 72.5° | 1809.7 | 1091.4 | 403.0  | 385.2  | 353.4  | 452.8  | 662.8  | 602.3  | 532.9  | 531.6  | 515.8  |
| 75°   | 708.1  | 499.9  | 370.0  | 364.3  | 324.1  | 414.5  | 645.0  | 585.8  | 512.5  | 492.2  | 486.4  |
| 77.5° | 414.5  | 356.6  | 327.9  | 333.0  | 289.1  | 376.3  | 619.0  | 557.1  | 484.6  | 460.4  | 454.0  |
| 80°   | 301.8  | 266.8  | 279.4  | 287.8  | 247.0  | 338.1  | 583.9  | 522.1  | 453.3  | 465.5  | 456.6  |
| 82.5° | 193.6  | 172.0  | 226.7  | 234.9  | 205.6  | 299.3  | 545.6  | 485.2  | 409.4  | 371.8  | 363.0  |
| 85°   | 98.7   | 108.9  | 168.7  | 178.9  | 158.5  | 245.9  | 499.2  | 436.2  | 359.8  | 309.4  | 314.5  |
| 87.5° | 55.4   | 74.6   | 107.6  | 120.3  | 112.1  | 189.1  | 405.0  | 359.8  | 293.6  | 238.7  | 210.1  |
| 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)