

Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209249

Luminaire Tested: UPW-SA2-110-727-U-T4FT

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-T4FT  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THF OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12418 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

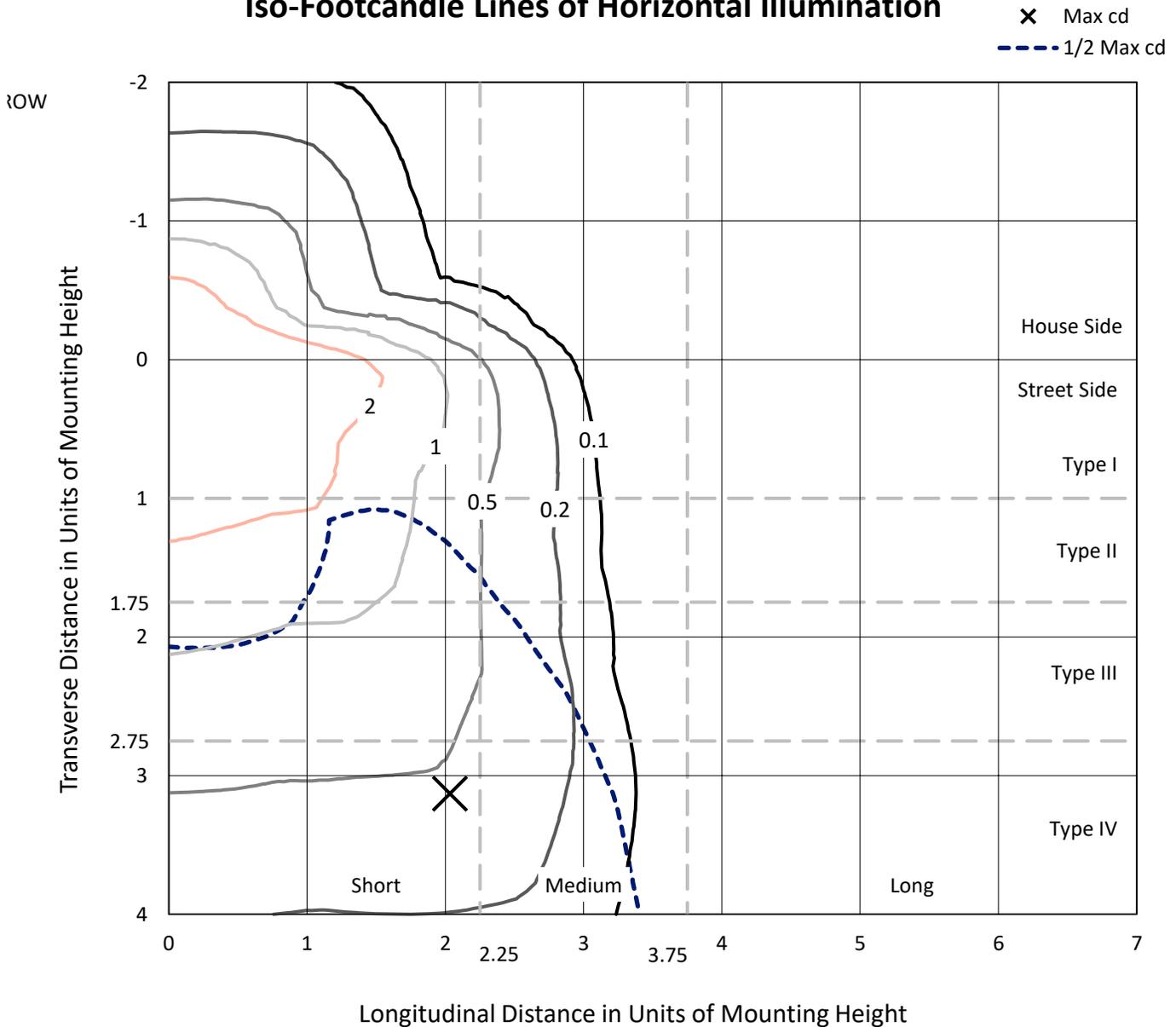
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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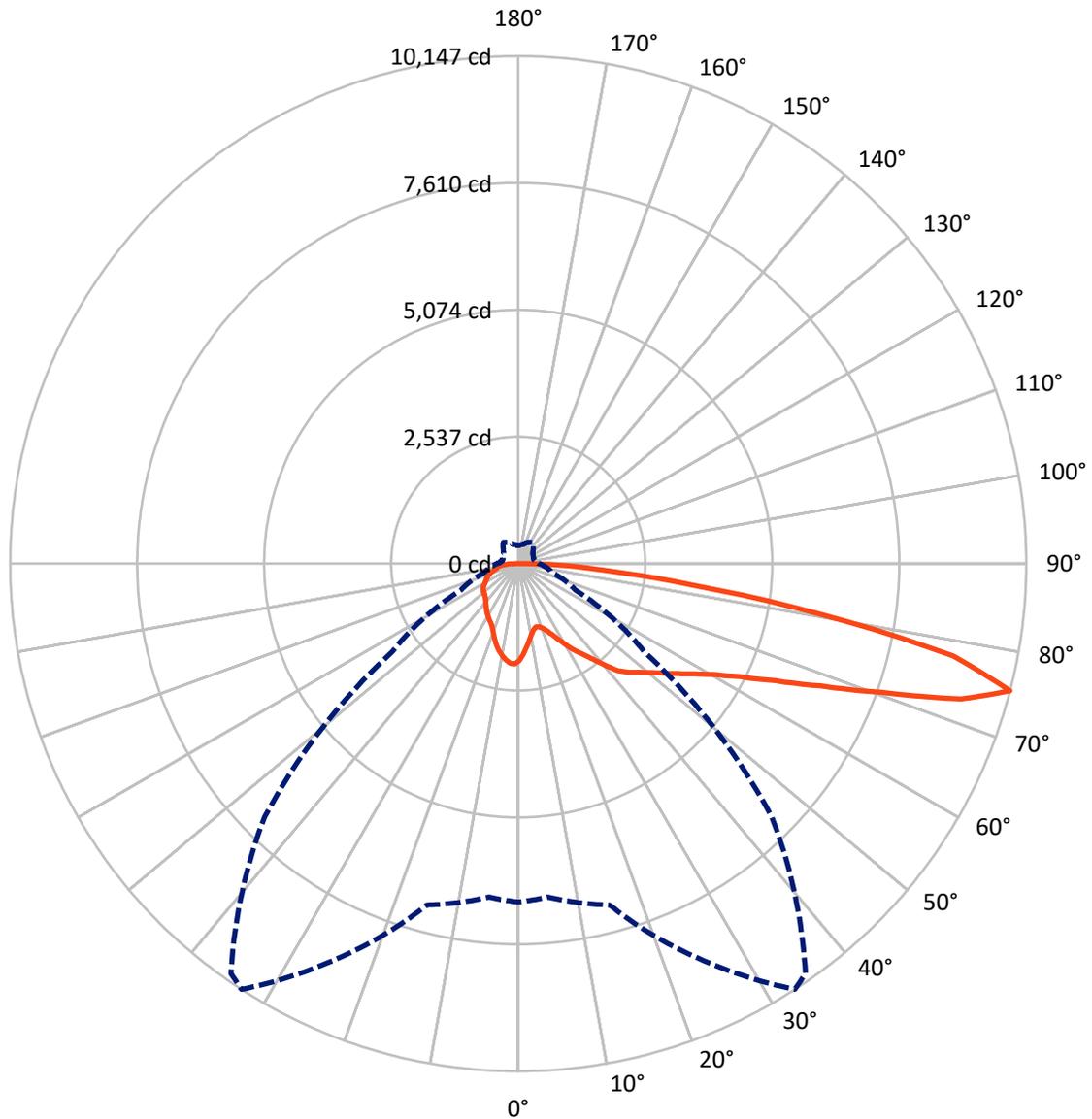
### Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2666.5   | 0.0    | 2666.5  |
|                    | % Fixture | 21.5     | 0.0    | 21.5    |
| <b>Street Side</b> | Lumens    | 9751.5   | 0.0    | 9751.5  |
|                    | % Fixture | 78.5     | 0.0    | 78.5    |
| <b>Total</b>       | Lumens    | 12418.0  | 0.0    | 12418.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 175.5   | 1.4       |
| 10°-20°   | 475.4   | 3.8       |
| 20°-30°   | 776.5   | 6.3       |
| 30°-40°   | 1156.3  | 9.3       |
| 40°-50°   | 1658.5  | 13.4      |
| 50°-60°   | 2276.8  | 18.3      |
| 60°-70°   | 2850.5  | 23.0      |
| 70°-80°   | 2578.7  | 20.8      |
| 80°-90°   | 469.7   | 3.8       |
| 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°    | 12418.0 | 100.0     |
| 0°-180°   | 12418.0 | 100.0     |



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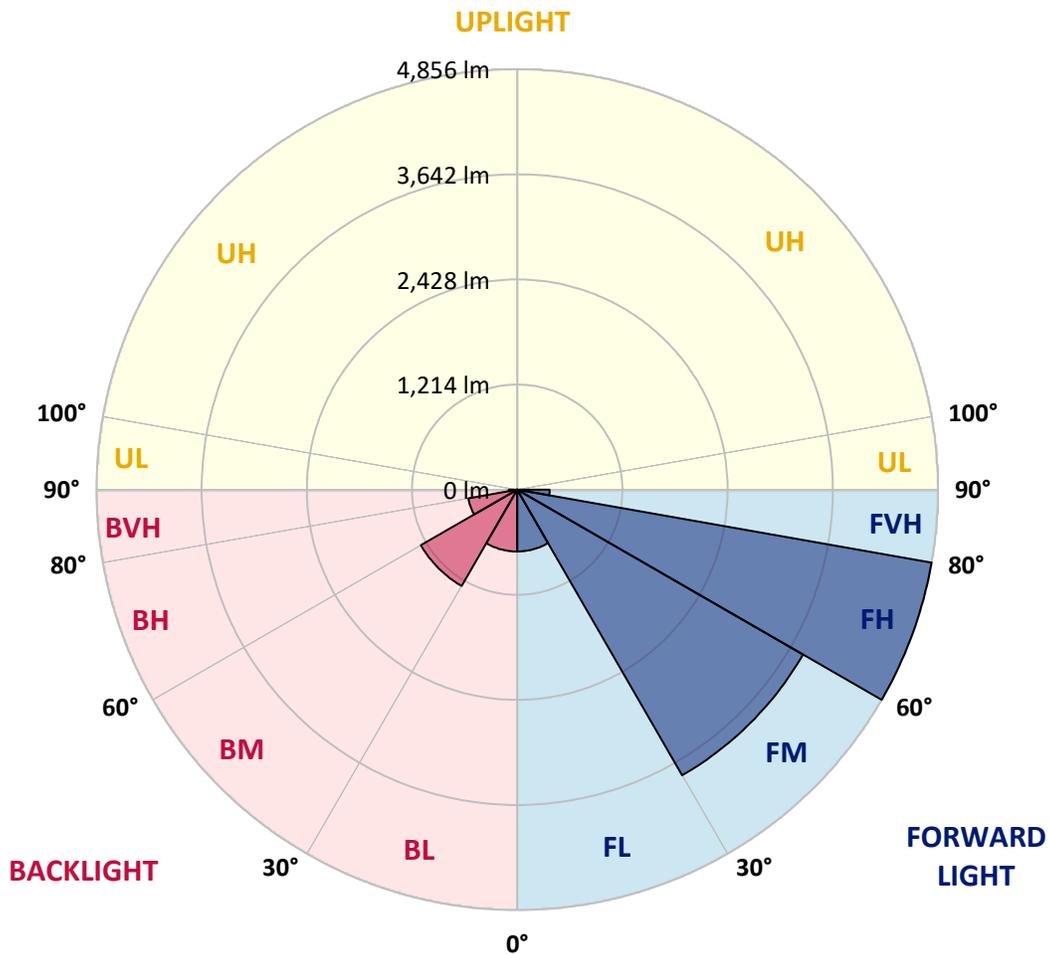
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 713.2  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 3808.3 | 30.7      |                         |      |         |
| FH   | (60°-80°)   | 4855.9 | 39.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 374.1  | 3.0       |                         |      | G3/500  |
| BL   | (0°-30°)    | 714.2  | 5.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1283.3 | 10.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 573.3  | 4.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 95.6   | 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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 33°     | 35°     | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0°    | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0  | 1941.0  | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 |
| 2.5°  | 1802.5 | 1795.6 | 1808.5 | 1810.2 | 1821.3  | 1825.6  | 1841.1 | 1865.1 | 1884.8 | 1907.5 | 1928.1 |
| 5°    | 1639.0 | 1634.3 | 1652.3 | 1665.2 | 1689.6  | 1699.9  | 1736.4 | 1787.4 | 1832.9 | 1884.4 | 1931.1 |
| 7.5°  | 1483.7 | 1481.2 | 1501.3 | 1530.5 | 1558.8  | 1573.0  | 1636.0 | 1710.2 | 1786.2 | 1869.4 | 1941.0 |
| 10°   | 1352.9 | 1352.1 | 1371.4 | 1400.1 | 1441.7  | 1457.6  | 1539.1 | 1636.9 | 1743.3 | 1857.8 | 1957.7 |
| 12.5° | 1279.6 | 1282.6 | 1291.6 | 1315.6 | 1354.2  | 1370.1  | 1460.6 | 1575.5 | 1707.2 | 1853.9 | 1982.2 |
| 15°   | 1297.6 | 1302.3 | 1286.9 | 1286.0 | 1313.4  | 1325.9  | 1410.8 | 1531.8 | 1681.5 | 1860.4 | 2017.8 |
| 17.5° | 1374.4 | 1375.2 | 1334.5 | 1308.7 | 1325.5  | 1331.9  | 1395.4 | 1506.9 | 1666.5 | 1874.9 | 2062.4 |
| 20°   | 1482.5 | 1480.3 | 1408.2 | 1365.4 | 1374.4  | 1376.1  | 1417.3 | 1507.3 | 1665.2 | 1900.3 | 2120.3 |
| 22.5° | 1625.7 | 1609.9 | 1512.9 | 1454.6 | 1452.4  | 1449.9  | 1473.4 | 1539.1 | 1684.1 | 1941.4 | 2189.4 |
| 25°   | 1812.7 | 1797.7 | 1664.3 | 1584.5 | 1567.4  | 1561.0  | 1564.4 | 1606.9 | 1721.4 | 1985.6 | 2266.6 |
| 27.5° | 2020.8 | 1994.6 | 1865.9 | 1753.1 | 1717.5  | 1708.5  | 1687.9 | 1702.5 | 1762.1 | 2028.1 | 2358.4 |
| 30°   | 2194.9 | 2180.8 | 2068.4 | 1934.6 | 1892.5  | 1879.7  | 1825.6 | 1809.7 | 1820.9 | 2086.0 | 2474.2 |
| 32.5° | 2292.3 | 2282.9 | 2214.7 | 2106.6 | 2067.5  | 2049.5  | 1973.2 | 1941.4 | 1915.3 | 2177.4 | 2631.2 |
| 35°   | 2410.3 | 2404.3 | 2363.1 | 2284.6 | 2226.7  | 2207.8  | 2148.6 | 2115.6 | 2048.2 | 2303.0 | 2834.1 |
| 37.5° | 2560.4 | 2554.0 | 2554.8 | 2491.3 | 2422.3  | 2404.7  | 2365.7 | 2330.9 | 2220.7 | 2468.2 | 3054.6 |
| 40°   | 2730.3 | 2717.8 | 2713.1 | 2710.1 | 2666.4  | 2656.5  | 2635.9 | 2588.7 | 2436.9 | 2665.5 | 3272.0 |
| 42.5° | 2985.9 | 2941.7 | 2847.4 | 2883.0 | 2926.3  | 2921.2  | 2937.9 | 2870.1 | 2677.1 | 2898.9 | 3484.4 |
| 45°   | 3232.6 | 3160.1 | 2997.1 | 3004.8 | 3099.6  | 3128.3  | 3253.6 | 3205.6 | 2937.5 | 3154.5 | 3704.0 |
| 47.5° | 3345.0 | 3290.1 | 3151.5 | 3151.9 | 3245.9  | 3305.5  | 3580.0 | 3545.7 | 3211.1 | 3444.9 | 3972.1 |
| 50°   | 3470.6 | 3415.7 | 3291.3 | 3338.1 | 3420.0  | 3483.5  | 3895.3 | 3877.7 | 3471.5 | 3762.8 | 4293.4 |
| 52.5° | 3607.9 | 3514.8 | 3435.9 | 3519.5 | 3634.5  | 3708.3  | 4211.0 | 4163.0 | 3710.4 | 4082.8 | 4662.7 |
| 55°   | 3609.6 | 3584.3 | 3644.4 | 3705.7 | 3877.7  | 3968.2  | 4541.7 | 4414.8 | 3905.2 | 4397.2 | 4963.4 |
| 57.5° | 3815.1 | 3773.9 | 3901.3 | 3929.6 | 4154.4  | 4256.5  | 4870.7 | 4634.0 | 4103.3 | 4638.2 | 5125.5 |
| 60°   | 4087.0 | 4051.9 | 4156.1 | 4230.7 | 4496.7  | 4633.1  | 5222.0 | 4859.2 | 4259.1 | 4820.1 | 5117.8 |
| 62.5° | 4556.7 | 4516.9 | 4515.6 | 4620.2 | 4978.4  | 5137.1  | 5616.3 | 5080.1 | 4320.8 | 4856.2 | 4899.5 |
| 65°   | 5244.4 | 5180.9 | 5061.2 | 5111.0 | 5643.7  | 5802.0  | 6056.8 | 5240.1 | 4239.3 | 4663.1 | 4337.1 |
| 67.5° | 5913.5 | 5911.4 | 5764.2 | 5866.3 | 6522.2  | 6649.2  | 6558.7 | 5255.9 | 3985.0 | 3991.0 | 3339.4 |
| 70°   | 6580.5 | 6589.1 | 6564.2 | 6919.4 | 7709.1  | 7841.2  | 7093.1 | 5042.7 | 3413.2 | 2882.1 | 2000.6 |
| 72.5° | 7109.0 | 7106.9 | 7232.1 | 8147.9 | 9249.5  | 9219.9  | 7543.5 | 4396.7 | 2450.6 | 1555.8 | 956.1  |
| 75°   | 6766.7 | 6692.1 | 7065.3 | 8756.2 | 10147.3 | 10002.7 | 7160.5 | 3067.0 | 1271.8 | 708.2  | 514.7  |
| 77.5° | 4413.5 | 4484.3 | 5032.0 | 7233.4 | 8875.9  | 8700.0  | 5253.4 | 1431.0 | 599.2  | 464.6  | 373.2  |
| 80°   | 1598.3 | 1672.9 | 2356.2 | 4097.3 | 6115.1  | 6086.4  | 2587.0 | 588.1  | 405.4  | 350.9  | 272.0  |
| 82.5° | 549.9  | 577.4  | 929.5  | 1819.6 | 3452.6  | 3581.3  | 973.3  | 334.2  | 294.7  | 248.8  | 186.2  |
| 85°   | 215.8  | 247.1  | 425.1  | 875.5  | 1741.5  | 1754.4  | 394.2  | 199.9  | 205.0  | 163.0  | 102.1  |
| 87.5° | 81.9   | 99.5   | 203.3  | 406.6  | 795.3   | 730.5   | 141.1  | 95.2   | 116.7  | 96.9   | 48.5   |
| 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°    | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 | 1941.0 |
| 2.5°  | 1944.0 | 1953.0 | 1971.9 | 1984.8 | 1998.5 | 2002.3 | 2004.1 | 2007.5 | 2010.9 | 2009.6 | 2010.1 |
| 5°    | 1956.0 | 1973.6 | 2004.1 | 2016.9 | 2022.9 | 2016.1 | 2002.8 | 1992.0 | 1984.3 | 1980.0 | 1978.8 |
| 7.5°  | 1975.7 | 2000.6 | 2033.2 | 2031.1 | 2017.4 | 1986.9 | 1952.6 | 1926.8 | 1905.4 | 1897.7 | 1893.4 |
| 10°   | 2001.9 | 2031.1 | 2053.8 | 2029.4 | 1989.5 | 1936.7 | 1885.2 | 1845.3 | 1813.2 | 1800.7 | 1798.6 |
| 12.5° | 2035.4 | 2065.0 | 2069.3 | 2017.4 | 1951.3 | 1879.2 | 1809.3 | 1756.6 | 1708.5 | 1693.1 | 1689.6 |
| 15°   | 2078.7 | 2106.6 | 2080.0 | 1996.3 | 1904.1 | 1807.2 | 1716.7 | 1645.0 | 1594.4 | 1575.5 | 1568.7 |
| 17.5° | 2124.2 | 2150.8 | 2082.1 | 1961.6 | 1842.3 | 1721.8 | 1608.1 | 1534.8 | 1476.9 | 1455.0 | 1452.4 |
| 20°   | 2178.6 | 2190.7 | 2073.1 | 1911.8 | 1757.4 | 1611.1 | 1491.5 | 1422.4 | 1391.5 | 1376.1 | 1374.4 |
| 22.5° | 2246.0 | 2233.1 | 2052.5 | 1844.5 | 1649.7 | 1483.3 | 1385.9 | 1353.8 | 1346.0 | 1342.6 | 1343.9 |
| 25°   | 2317.2 | 2277.7 | 2022.1 | 1756.6 | 1513.8 | 1355.5 | 1308.7 | 1317.7 | 1328.0 | 1326.7 | 1326.7 |
| 27.5° | 2395.7 | 2323.2 | 1975.3 | 1639.9 | 1363.2 | 1250.8 | 1256.4 | 1289.4 | 1304.9 | 1304.4 | 1304.0 |
| 30°   | 2496.5 | 2374.7 | 1915.7 | 1499.6 | 1222.5 | 1177.0 | 1210.9 | 1251.2 | 1272.3 | 1271.4 | 1271.8 |
| 32.5° | 2620.5 | 2431.3 | 1834.6 | 1343.0 | 1120.8 | 1122.6 | 1161.6 | 1201.5 | 1225.9 | 1223.8 | 1224.2 |
| 35°   | 2765.4 | 2494.8 | 1724.8 | 1188.6 | 1053.5 | 1079.2 | 1110.1 | 1138.0 | 1161.2 | 1158.2 | 1155.2 |
| 37.5° | 2923.3 | 2557.0 | 1579.0 | 1050.5 | 998.6  | 1038.9 | 1064.7 | 1069.4 | 1080.1 | 1072.4 | 1066.8 |
| 40°   | 3073.4 | 2604.6 | 1391.1 | 937.3  | 943.3  | 1004.6 | 1021.3 | 1002.5 | 983.2  | 980.6  | 972.9  |
| 42.5° | 3204.3 | 2620.5 | 1201.1 | 846.7  | 884.9  | 968.6  | 978.9  | 939.4  | 904.7  | 888.4  | 881.5  |
| 45°   | 3342.4 | 2626.0 | 1023.9 | 770.8  | 828.7  | 936.4  | 947.6  | 894.8  | 845.9  | 810.7  | 799.1  |
| 47.5° | 3523.0 | 2666.4 | 886.2  | 714.6  | 785.8  | 915.0  | 930.8  | 859.2  | 795.7  | 745.5  | 734.8  |
| 50°   | 3759.3 | 2746.1 | 774.3  | 671.7  | 758.0  | 900.8  | 918.8  | 824.4  | 754.5  | 694.0  | 683.3  |
| 52.5° | 4021.8 | 2819.5 | 683.7  | 637.0  | 730.9  | 875.9  | 903.4  | 799.6  | 715.9  | 646.4  | 634.8  |
| 55°   | 4205.4 | 2763.3 | 610.8  | 601.0  | 695.8  | 840.3  | 881.9  | 778.5  | 660.6  | 600.1  | 589.8  |
| 57.5° | 4240.6 | 2571.1 | 555.5  | 563.6  | 653.3  | 795.7  | 848.9  | 731.8  | 630.6  | 579.9  | 569.2  |
| 60°   | 4144.5 | 2303.5 | 514.3  | 529.3  | 607.8  | 739.5  | 787.1  | 698.8  | 601.8  | 558.5  | 549.5  |
| 62.5° | 3903.0 | 2029.4 | 483.9  | 498.4  | 565.4  | 682.5  | 748.5  | 664.0  | 572.6  | 534.0  | 525.0  |
| 65°   | 3415.3 | 1703.8 | 454.7  | 471.0  | 525.9  | 633.1  | 713.8  | 631.8  | 543.9  | 514.3  | 505.7  |
| 67.5° | 2578.0 | 1276.1 | 427.2  | 441.8  | 490.7  | 590.2  | 676.0  | 600.1  | 516.0  | 497.2  | 486.9  |
| 70°   | 1518.1 | 799.1  | 395.9  | 411.4  | 453.8  | 545.6  | 635.7  | 565.4  | 481.3  | 472.7  | 459.4  |
| 72.5° | 706.5  | 480.9  | 360.3  | 375.3  | 407.5  | 486.0  | 583.8  | 519.9  | 440.1  | 421.2  | 403.2  |
| 75°   | 421.7  | 351.7  | 318.3  | 331.6  | 354.3  | 422.5  | 518.6  | 473.6  | 401.1  | 376.2  | 357.3  |
| 77.5° | 315.3  | 269.0  | 272.0  | 286.1  | 304.6  | 369.8  | 459.4  | 437.1  | 371.0  | 351.7  | 338.9  |
| 80°   | 226.9  | 204.2  | 221.8  | 237.2  | 256.5  | 336.3  | 440.1  | 404.1  | 335.4  | 309.7  | 297.7  |
| 82.5° | 151.4  | 146.7  | 166.9  | 182.7  | 201.6  | 294.3  | 413.5  | 353.9  | 286.5  | 253.9  | 227.3  |
| 85°   | 83.6   | 88.4   | 112.4  | 119.2  | 135.5  | 207.2  | 338.9  | 284.4  | 215.8  | 173.7  | 166.0  |
| 87.5° | 34.7   | 40.8   | 60.5   | 58.3   | 72.1   | 123.5  | 223.1  | 171.6  | 137.3  | 102.5  | 79.8   |
| 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)