

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: P1209013

Luminaire Tested: UPW-SA2-090-730-U-SL2-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-2)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/20/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-090-730-U-SL2-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7622 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

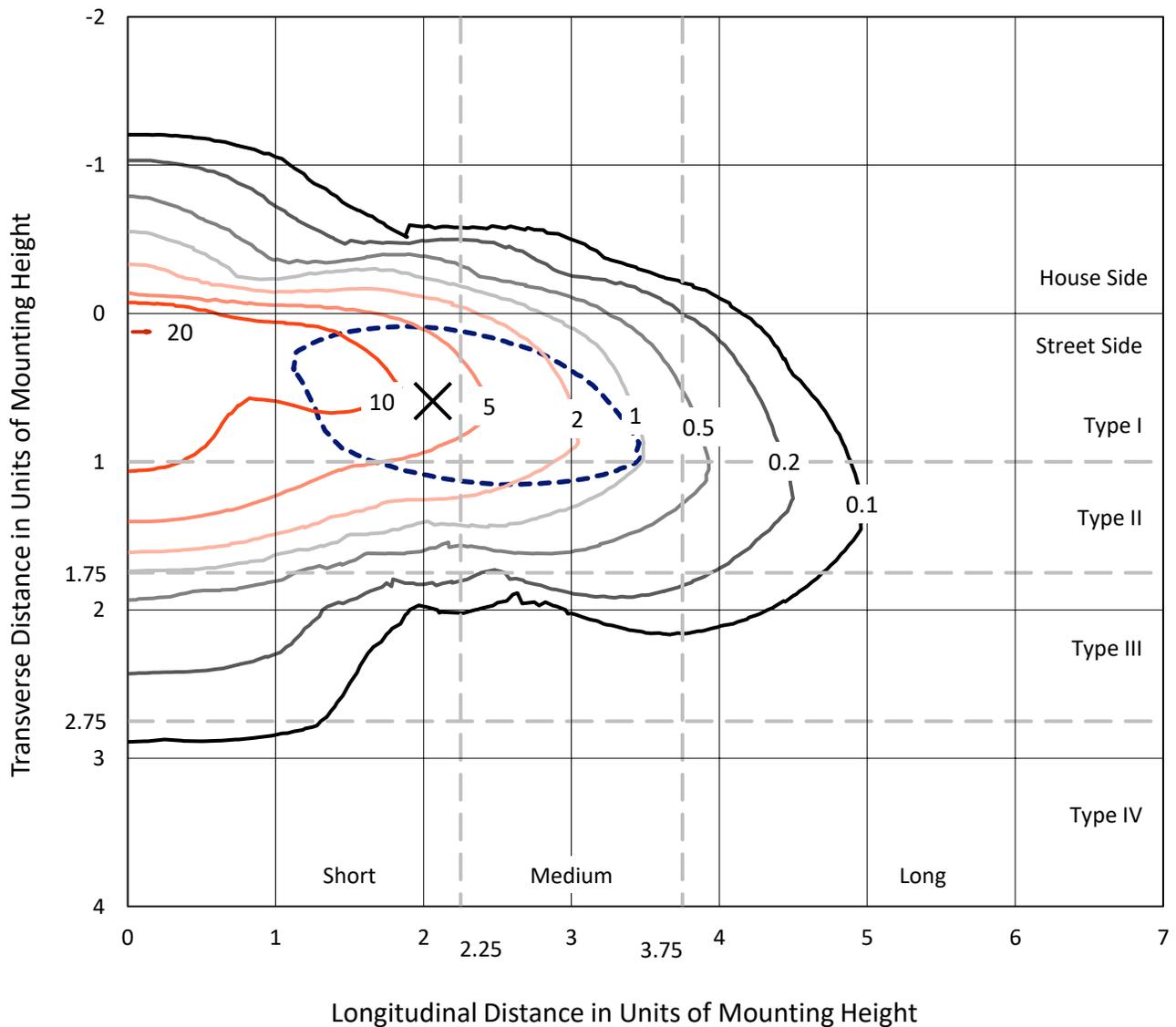
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

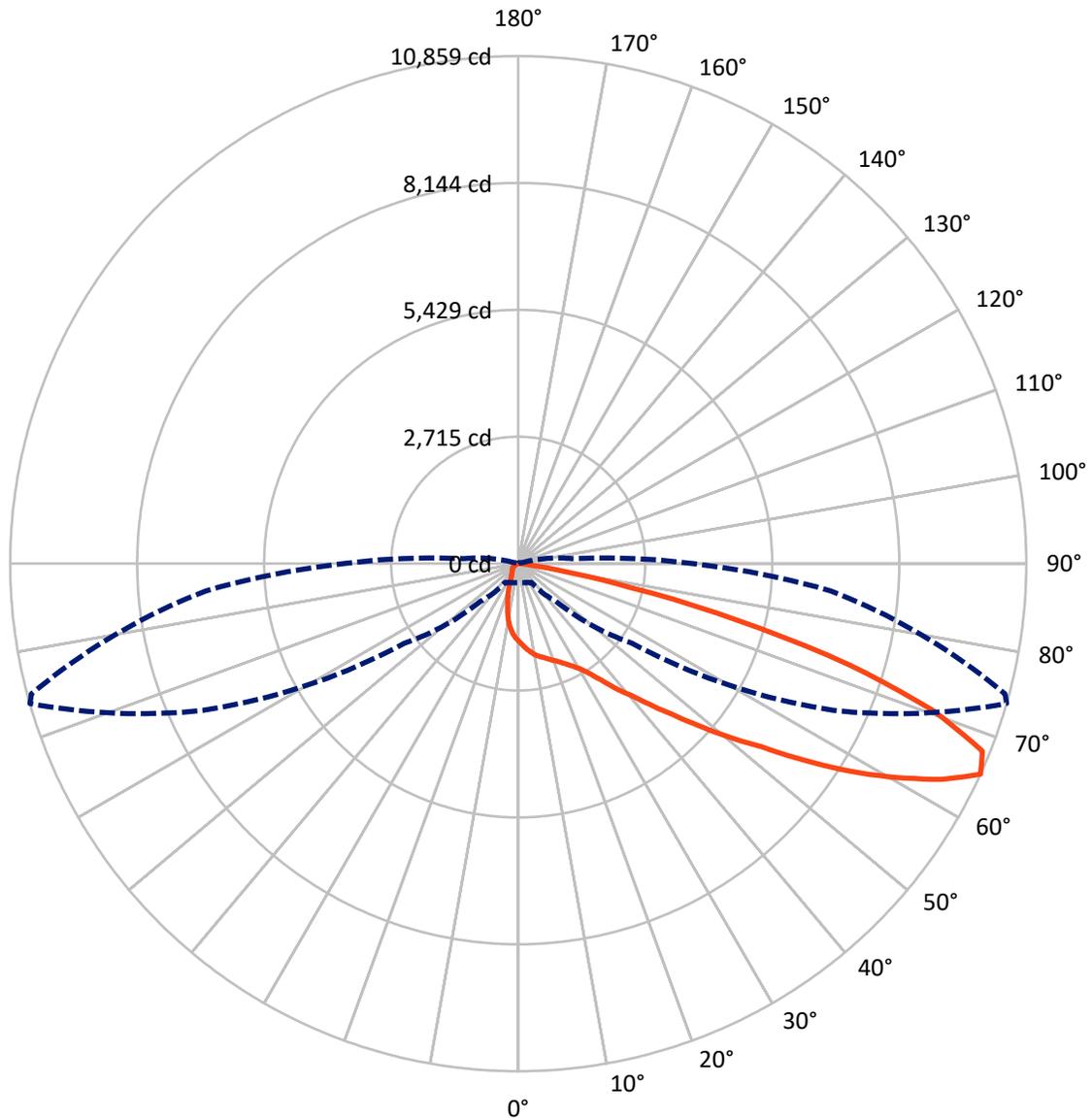
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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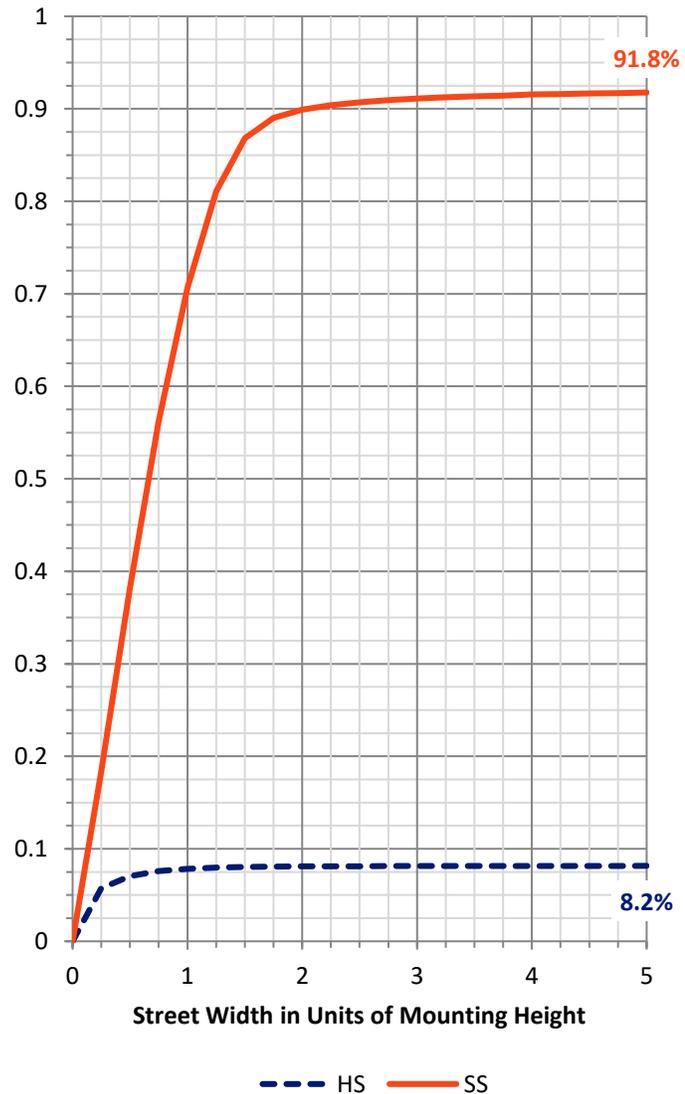
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 626.6    | 0.0    | 626.6  |
|                    | % Fixture | 8.2      | 0.0    | 8.2    |
| <b>Street Side</b> | Lumens    | 6995.4   | 0.0    | 6995.4 |
|                    | % Fixture | 91.8     | 0.0    | 91.8   |
| <b>Total</b>       | Lumens    | 7622.0   | 0.0    | 7622.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.8  | 1.9       |
| 10°-20°   | 347.3  | 4.6       |
| 20°-30°   | 541.6  | 7.1       |
| 30°-40°   | 854.9  | 11.2      |
| 40°-50°   | 1329.7 | 17.4      |
| 50°-60°   | 1922.1 | 25.2      |
| 60°-70°   | 1737.3 | 22.8      |
| 70°-80°   | 698.3  | 9.2       |
| 80°-90°   | 49.0   | 0.6       |
| 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°    | 7622.0 | 100.0     |
| 0°-180°   | 7622.0 | 100.0     |



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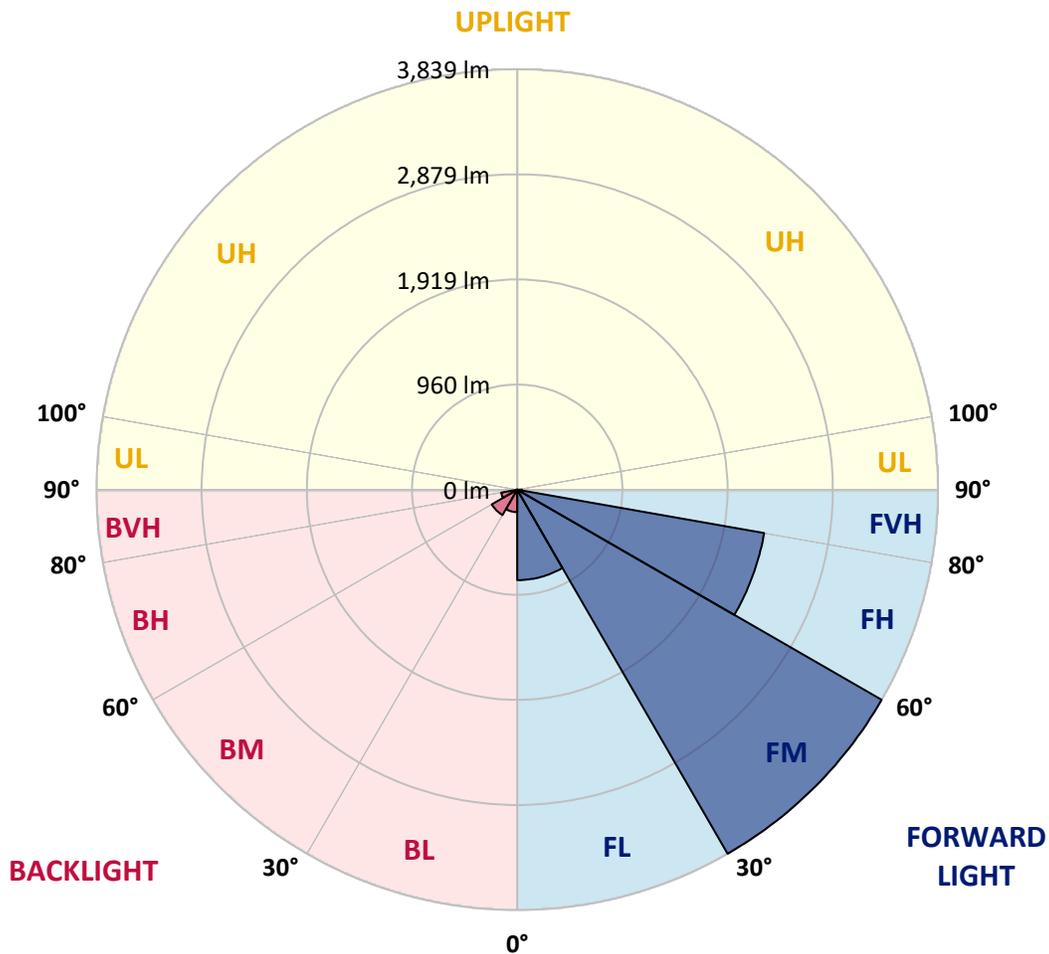
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 825.7  | 10.8      |                         |      |         |
| FM   | (30°-60°)   | 3838.5 | 50.4      |                         |      |         |
| FH   | (60°-80°)   | 2287.6 | 30.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 43.5   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 204.9  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 268.1  | 3.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 148.0  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.5    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7  | 1660.7  | 1660.7 |
| 2.5°  | 1873.9 | 1866.9 | 1870.4 | 1855.3 | 1852.9 | 1837.8 | 1804.0 | 1770.2 | 1738.7  | 1730.6  | 1692.1 |
| 5°    | 2010.3 | 2006.8 | 2003.3 | 2000.9 | 1990.5 | 1978.8 | 1931.0 | 1885.6 | 1827.3  | 1816.8  | 1736.4 |
| 7.5°  | 2046.4 | 2042.9 | 2049.9 | 2061.5 | 2068.5 | 2062.7 | 2027.7 | 1983.5 | 1910.0  | 1898.4  | 1781.9 |
| 10°   | 1966.0 | 1962.5 | 1993.9 | 2039.4 | 2081.4 | 2111.7 | 2098.8 | 2059.2 | 1982.3  | 1970.6  | 1813.3 |
| 12.5° | 1788.8 | 1784.2 | 1835.5 | 1928.7 | 2027.7 | 2114.0 | 2139.6 | 2112.8 | 2040.6  | 2027.7  | 1839.0 |
| 15°   | 1626.9 | 1619.9 | 1671.1 | 1765.5 | 1890.2 | 2056.9 | 2154.8 | 2162.9 | 2088.3  | 2080.2  | 1866.9 |
| 17.5° | 1540.6 | 1541.8 | 1573.3 | 1651.3 | 1771.4 | 1953.2 | 2138.5 | 2209.5 | 2152.4  | 2142.0  | 1897.2 |
| 20°   | 1575.6 | 1577.9 | 1581.4 | 1611.7 | 1684.0 | 1862.3 | 2102.3 | 2259.7 | 2215.4  | 2203.7  | 1935.7 |
| 22.5° | 1677.0 | 1682.8 | 1673.5 | 1657.2 | 1666.5 | 1795.8 | 2065.0 | 2314.4 | 2287.6  | 2276.0  | 1962.5 |
| 25°   | 1865.8 | 1858.8 | 1829.6 | 1764.4 | 1717.8 | 1776.0 | 2052.2 | 2377.4 | 2378.5  | 2364.5  | 1995.1 |
| 27.5° | 2090.7 | 2072.0 | 2037.1 | 1933.4 | 1819.1 | 1808.7 | 2048.7 | 2444.9 | 2484.6  | 2464.8  | 2032.4 |
| 30°   | 2281.8 | 2272.5 | 2229.4 | 2133.8 | 1962.5 | 1884.4 | 2058.0 | 2510.2 | 2610.4  | 2599.9  | 2081.4 |
| 32.5° | 2405.3 | 2403.0 | 2371.5 | 2307.4 | 2157.1 | 2006.8 | 2098.8 | 2598.8 | 2800.4  | 2765.4  | 2174.6 |
| 35°   | 2509.0 | 2498.6 | 2474.1 | 2432.1 | 2341.2 | 2173.4 | 2185.1 | 2741.0 | 3056.8  | 3046.3  | 2323.7 |
| 37.5° | 2626.7 | 2613.9 | 2584.8 | 2532.4 | 2469.4 | 2370.4 | 2322.6 | 2925.1 | 3383.1  | 3378.4  | 2520.7 |
| 40°   | 2763.1 | 2754.9 | 2725.8 | 2655.9 | 2577.8 | 2518.4 | 2465.9 | 3115.0 | 3698.9  | 3666.3  | 2702.5 |
| 42.5° | 2897.1 | 2899.4 | 2877.3 | 2805.0 | 2699.0 | 2618.6 | 2636.1 | 3308.5 | 4110.3  | 4093.9  | 2985.7 |
| 45°   | 3049.8 | 3041.6 | 3030.0 | 2977.5 | 2863.3 | 2697.8 | 2799.2 | 3576.5 | 4588.1  | 4628.9  | 3397.1 |
| 47.5° | 3157.0 | 3154.7 | 3178.0 | 3138.3 | 3043.9 | 2824.9 | 2967.0 | 3908.7 | 5175.4  | 5213.9  | 3849.2 |
| 50°   | 3185.0 | 3181.5 | 3259.5 | 3292.2 | 3288.7 | 3070.8 | 3197.8 | 4329.4 | 5821.0  | 5815.2  | 4355.0 |
| 52.5° | 3005.5 | 3013.6 | 3165.1 | 3338.8 | 3500.8 | 3449.5 | 3613.8 | 4908.5 | 6510.9  | 6530.7  | 4830.5 |
| 55°   | 2490.4 | 2541.7 | 2709.5 | 3111.5 | 3538.1 | 3835.2 | 4149.9 | 5705.7 | 7421.1  | 7368.6  | 5204.5 |
| 57.5° | 1561.6 | 1534.8 | 1818.0 | 2400.7 | 3078.9 | 3864.4 | 4583.4 | 6506.3 | 8393.0  | 8326.6  | 5754.6 |
| 60°   | 795.9  | 761.0  | 926.5  | 1339.0 | 2137.3 | 3247.9 | 4592.7 | 7204.3 | 9289.2  | 9214.6  | 6310.5 |
| 62.5° | 487.1  | 481.3  | 515.1  | 653.8  | 1107.1 | 2190.9 | 3979.7 | 7626.2 | 10165.5 | 10106.1 | 6686.9 |
| 65°   | 410.2  | 409.0  | 421.9  | 444.0  | 490.6  | 1137.4 | 2969.4 | 7419.9 | 10858.9 | 10772.7 | 6709.0 |
| 67.5° | 363.6  | 363.6  | 390.4  | 400.9  | 326.3  | 489.5  | 1821.5 | 6562.2 | 10696.9 | 10680.6 | 6241.7 |
| 70°   | 313.5  | 308.8  | 346.1  | 377.6  | 271.5  | 251.7  | 938.1  | 5272.1 | 9397.5  | 9451.2  | 5316.4 |
| 72.5° | 236.6  | 241.2  | 279.7  | 321.6  | 222.6  | 177.1  | 428.9  | 3689.6 | 7400.1  | 7425.7  | 4177.9 |
| 75°   | 178.3  | 183.0  | 216.8  | 263.4  | 179.5  | 134.0  | 236.6  | 2397.2 | 4846.8  | 4905.0  | 2440.3 |
| 77.5° | 136.3  | 137.5  | 171.3  | 217.9  | 138.7  | 102.6  | 159.7  | 1332.0 | 2456.6  | 2404.2  | 948.6  |
| 80°   | 94.4   | 97.9   | 134.0  | 169.0  | 110.7  | 76.9   | 107.2  | 576.9  | 886.8   | 818.1   | 294.8  |
| 82.5° | 35.0   | 45.4   | 94.4   | 122.4  | 78.1   | 54.8   | 79.2   | 231.9  | 259.9   | 243.6   | 108.4  |
| 85°   | 5.8    | 5.8    | 51.3   | 89.7   | 42.0   | 32.6   | 50.1   | 80.4   | 85.1    | 89.7    | 55.9   |
| 87.5° | 0.0    | 0.0    | 5.8    | 19.8   | 7.0    | 4.7    | 14.0   | 19.8   | 40.8    | 45.4    | 30.3   |
| 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°    | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 | 1660.7 |
| 2.5°  | 1666.5 | 1642.0 | 1593.1 | 1551.1 | 1485.8 | 1428.7 | 1392.6 | 1364.6 | 1343.7 | 1319.2 | 1294.7 |
| 5°    | 1685.1 | 1628.0 | 1508.0 | 1372.8 | 1234.1 | 1109.4 | 1006.9 | 913.7  | 853.1  | 846.1  | 816.9  |
| 7.5°  | 1701.4 | 1610.5 | 1407.8 | 1167.7 | 955.6  | 775.0  | 647.9  | 569.9  | 502.3  | 481.3  | 490.6  |
| 10°   | 1701.4 | 1580.2 | 1274.9 | 945.1  | 689.9  | 505.8  | 412.5  | 361.3  | 342.6  | 334.5  | 327.5  |
| 12.5° | 1696.8 | 1531.3 | 1108.3 | 736.5  | 480.1  | 368.3  | 326.3  | 307.7  | 297.2  | 292.5  | 290.2  |
| 15°   | 1689.8 | 1471.9 | 944.0  | 550.1  | 367.1  | 315.8  | 294.8  | 280.9  | 271.5  | 266.9  | 263.4  |
| 17.5° | 1685.1 | 1410.1 | 794.8  | 417.2  | 317.0  | 287.8  | 270.4  | 256.4  | 248.2  | 241.2  | 240.1  |
| 20°   | 1671.1 | 1337.8 | 650.3  | 342.6  | 287.8  | 263.4  | 244.7  | 231.9  | 223.8  | 215.6  | 215.6  |
| 22.5° | 1649.0 | 1235.3 | 513.9  | 298.3  | 263.4  | 238.9  | 219.1  | 206.3  | 198.1  | 193.5  | 191.1  |
| 25°   | 1621.0 | 1133.9 | 407.9  | 272.7  | 240.1  | 213.3  | 195.8  | 183.0  | 176.0  | 173.6  | 171.3  |
| 27.5° | 1589.6 | 1032.5 | 335.6  | 251.7  | 217.9  | 192.3  | 172.5  | 163.2  | 158.5  | 156.2  | 153.8  |
| 30°   | 1563.9 | 940.5  | 291.3  | 234.2  | 196.9  | 171.3  | 153.8  | 145.7  | 142.2  | 141.0  | 138.7  |
| 32.5° | 1566.3 | 862.4  | 261.0  | 214.4  | 180.6  | 155.0  | 137.5  | 129.4  | 129.4  | 128.2  | 128.2  |
| 35°   | 1609.4 | 813.4  | 240.1  | 196.9  | 163.2  | 138.7  | 123.5  | 116.5  | 118.9  | 118.9  | 117.7  |
| 37.5° | 1656.0 | 764.5  | 220.3  | 178.3  | 148.0  | 123.5  | 108.4  | 104.9  | 106.0  | 107.2  | 107.2  |
| 40°   | 1716.6 | 728.4  | 203.9  | 160.8  | 132.9  | 110.7  | 97.9   | 94.4   | 94.4   | 94.4   | 93.2   |
| 42.5° | 1854.1 | 724.9  | 190.0  | 145.7  | 118.9  | 97.9   | 88.6   | 83.9   | 81.6   | 80.4   | 78.1   |
| 45°   | 2047.6 | 750.5  | 180.6  | 131.7  | 104.9  | 88.6   | 80.4   | 74.6   | 67.6   | 64.1   | 62.9   |
| 47.5° | 2296.9 | 816.9  | 172.5  | 118.9  | 92.1   | 80.4   | 72.3   | 64.1   | 54.8   | 50.1   | 48.9   |
| 50°   | 2608.1 | 920.6  | 164.3  | 108.4  | 82.7   | 72.3   | 62.9   | 52.4   | 43.1   | 38.5   | 38.5   |
| 52.5° | 2899.4 | 1043.0 | 156.2  | 99.1   | 73.4   | 66.4   | 53.6   | 42.0   | 33.8   | 30.3   | 29.1   |
| 55°   | 3161.7 | 1180.5 | 146.8  | 88.6   | 66.4   | 58.3   | 44.3   | 32.6   | 24.5   | 21.0   | 19.8   |
| 57.5° | 3477.5 | 1354.2 | 135.2  | 78.1   | 59.4   | 50.1   | 35.0   | 23.3   | 16.3   | 11.7   | 10.5   |
| 60°   | 3822.4 | 1441.6 | 120.0  | 68.8   | 51.3   | 42.0   | 26.8   | 16.3   | 9.3    | 4.7    | 4.7    |
| 62.5° | 3934.3 | 1398.4 | 101.4  | 59.4   | 44.3   | 33.8   | 19.8   | 10.5   | 3.5    | 0.0    | 0.0    |
| 65°   | 3730.4 | 1198.0 | 86.2   | 52.4   | 38.5   | 25.6   | 14.0   | 5.8    | 0.0    | 0.0    | 0.0    |
| 67.5° | 3260.7 | 932.3  | 71.1   | 45.4   | 32.6   | 21.0   | 9.3    | 1.2    | 0.0    | 0.0    | 0.0    |
| 70°   | 2692.0 | 691.1  | 59.4   | 37.3   | 28.0   | 16.3   | 5.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2077.9 | 490.6  | 51.3   | 31.5   | 23.3   | 12.8   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1173.5 | 263.4  | 46.6   | 31.5   | 21.0   | 10.5   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 484.8  | 121.2  | 40.8   | 31.5   | 21.0   | 11.7   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 151.5  | 61.8   | 35.0   | 32.6   | 22.1   | 12.8   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 71.1   | 47.8   | 36.1   | 30.3   | 19.8   | 11.7   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 37.3   | 24.5   | 25.6   | 25.6   | 17.5   | 10.5   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.5   | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)