

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: P1209246

Luminaire Tested: UPW-SA2-110-727-U-T3R-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-110-727-U-T3R-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9495 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

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



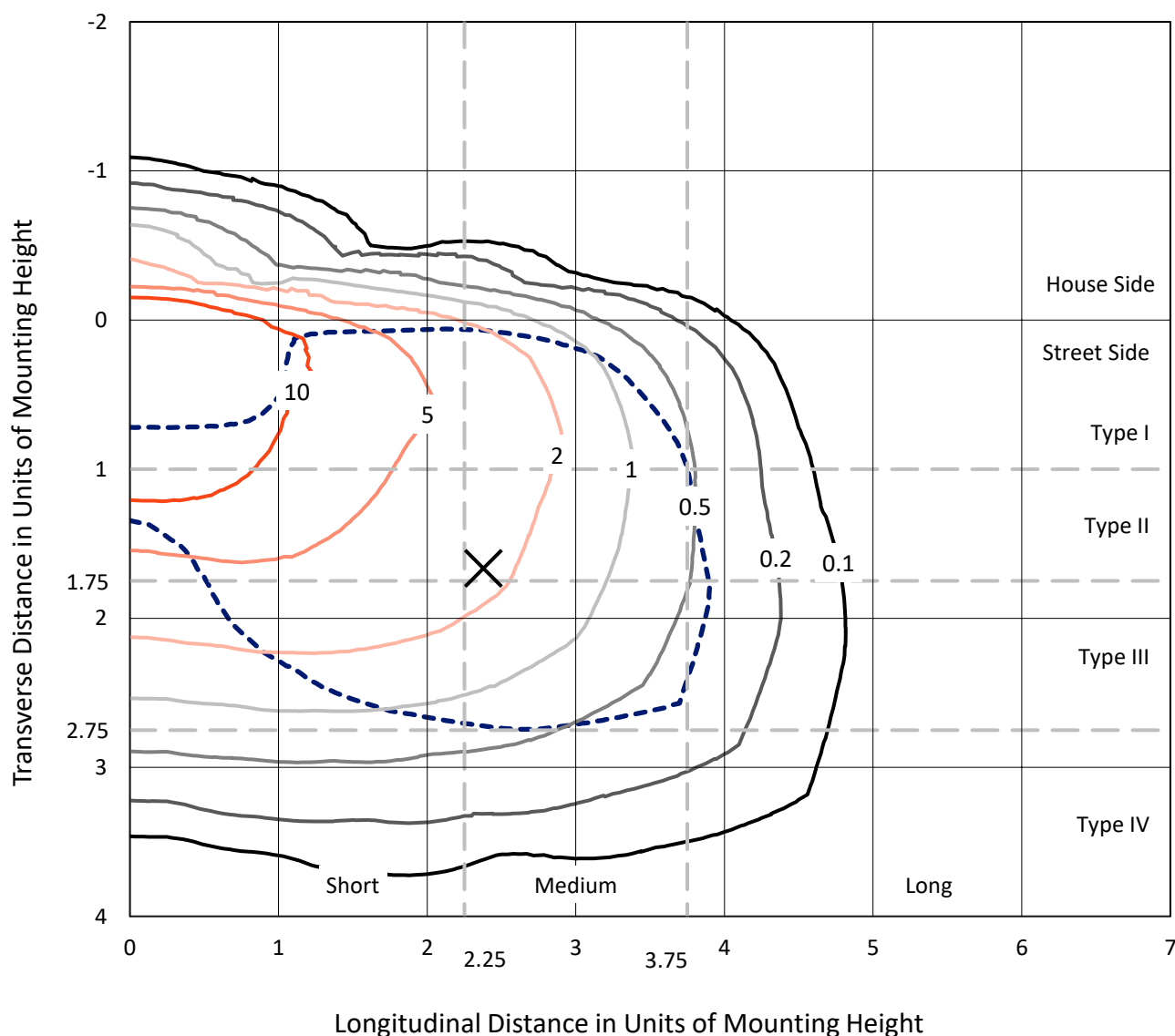
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

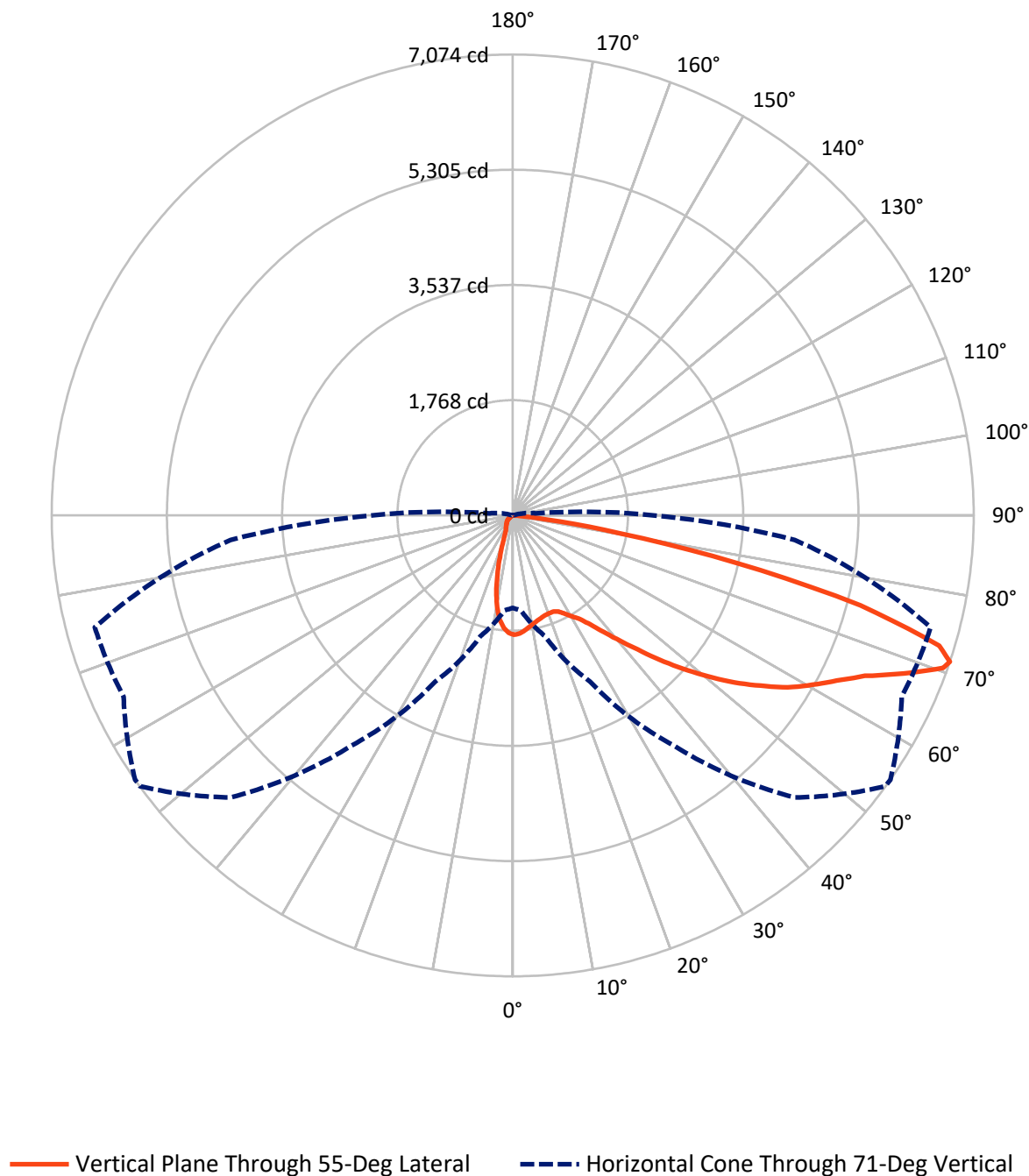


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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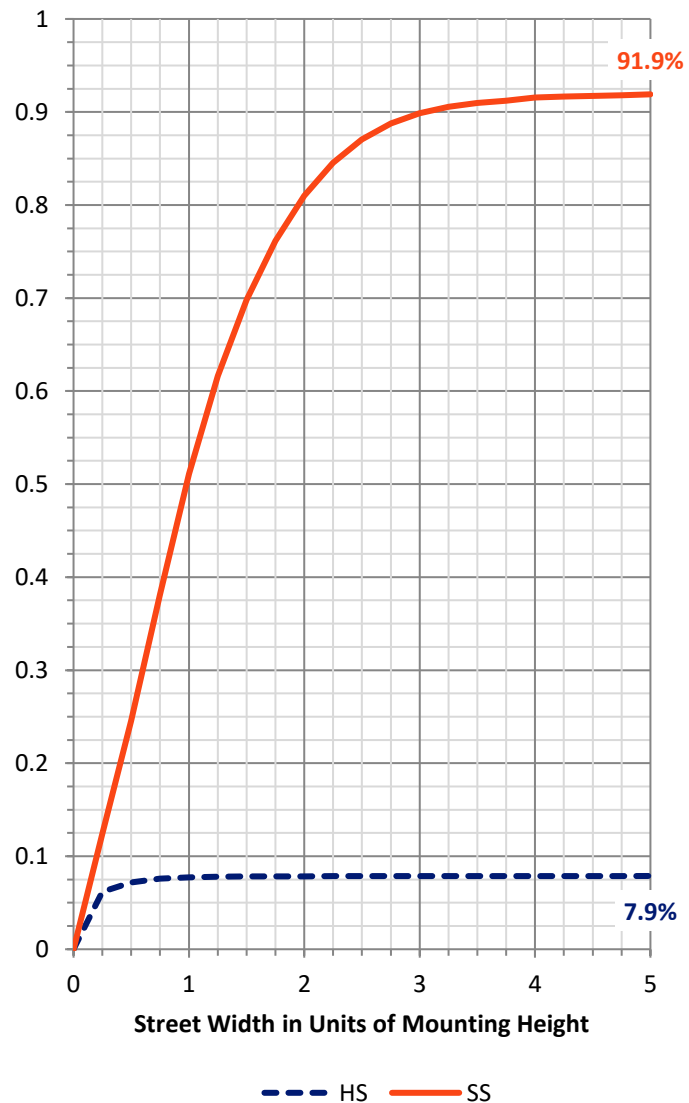
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 751.7    | 0.0    | 751.7  |
|                    | % Fixture | 7.9      | 0.0    | 7.9    |
| <b>Street Side</b> | Lumens    | 8743.3   | 0.0    | 8743.3 |
|                    | % Fixture | 92.1     | 0.0    | 92.1   |
| <b>Total</b>       | Lumens    | 9495.0   | 0.0    | 9495.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 156.1  | 1.6       |
| 10°-20°   | 352.5  | 3.7       |
| 20°-30°   | 566.4  | 6.0       |
| 30°-40°   | 962.4  | 10.1      |
| 40°-50°   | 1493.8 | 15.7      |
| 50°-60°   | 2008.3 | 21.2      |
| 60°-70°   | 2456.9 | 25.9      |
| 70°-80°   | 1436.5 | 15.1      |
| 80°-90°   | 62.1   | 0.7       |
| 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°    | 9495.0 | 100.0     |
| 0°-180°   | 9495.0 | 100.0     |

**Coefficient of Utilization**



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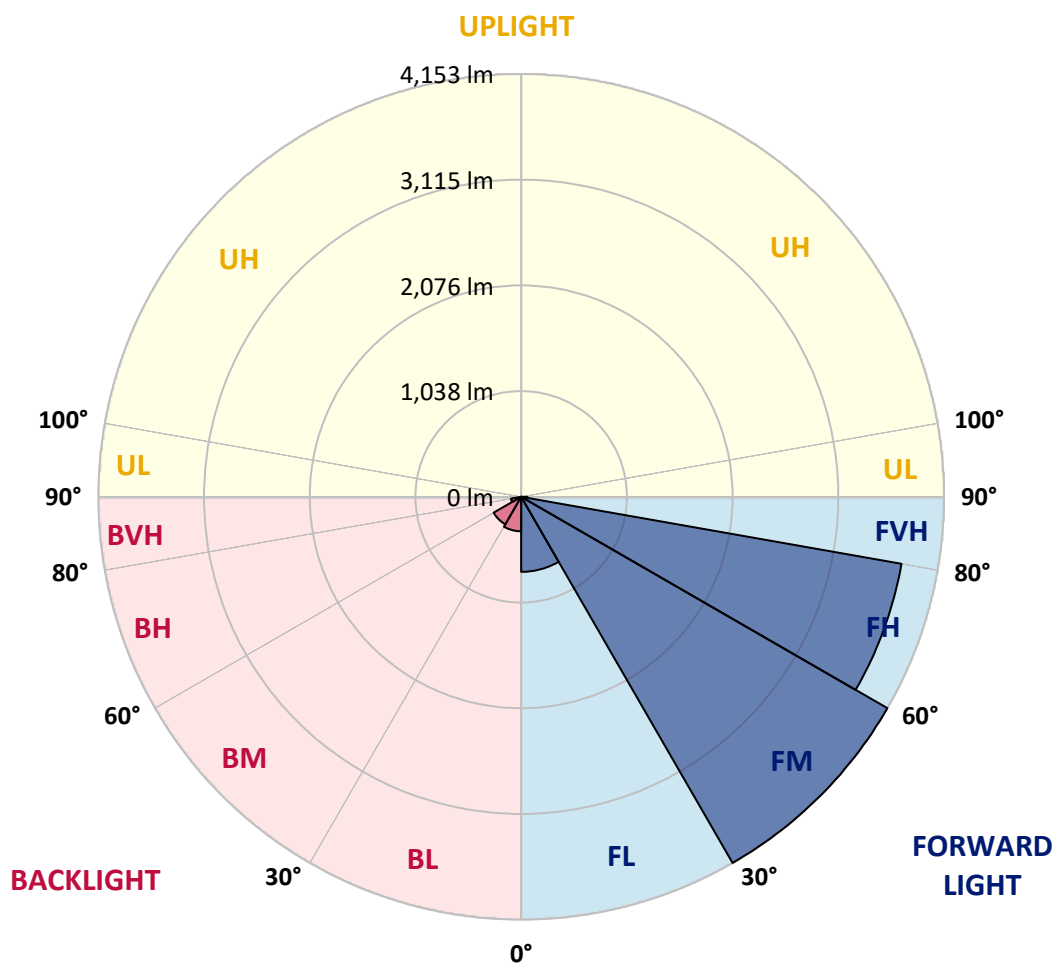
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 736.7  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 4152.8 | 43.7      |                         |      |         |
| FH   | (60°-80°)   | 3792.6 | 39.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 61.1   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 338.4  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 311.7  | 3.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 100.7  | 1.1       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.0    | 0.0       |                         |      | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 |
| 2.5°  | 1777.4 | 1779.6 | 1787.2 | 1790.6 | 1798.7 | 1812.4 | 1819.2 | 1819.6 | 1830.7 | 1835.0 | 1838.4 |
| 5°    | 1651.7 | 1664.4 | 1677.2 | 1690.9 | 1715.6 | 1748.4 | 1780.8 | 1783.8 | 1819.6 | 1846.1 | 1860.1 |
| 7.5°  | 1543.4 | 1554.9 | 1570.2 | 1592.0 | 1626.9 | 1678.5 | 1732.7 | 1739.1 | 1806.8 | 1867.0 | 1898.5 |
| 10°   | 1432.1 | 1441.5 | 1463.6 | 1495.6 | 1543.8 | 1612.9 | 1685.8 | 1696.4 | 1795.3 | 1895.1 | 1950.5 |
| 12.5° | 1313.1 | 1318.7 | 1345.5 | 1391.6 | 1462.4 | 1550.2 | 1646.1 | 1660.2 | 1788.1 | 1927.5 | 2011.9 |
| 15°   | 1222.8 | 1225.3 | 1250.9 | 1298.6 | 1379.6 | 1493.9 | 1615.4 | 1632.5 | 1789.8 | 1966.3 | 2078.9 |
| 17.5° | 1199.7 | 1201.0 | 1214.7 | 1247.5 | 1319.1 | 1443.6 | 1591.1 | 1612.0 | 1794.9 | 2004.2 | 2146.2 |
| 20°   | 1293.1 | 1284.1 | 1270.1 | 1265.0 | 1295.7 | 1413.3 | 1576.6 | 1600.1 | 1801.7 | 2037.9 | 2206.8 |
| 22.5° | 1549.3 | 1522.9 | 1464.5 | 1386.5 | 1339.1 | 1415.5 | 1580.5 | 1603.9 | 1823.5 | 2079.3 | 2276.7 |
| 25°   | 1929.6 | 1893.0 | 1793.6 | 1640.1 | 1492.6 | 1476.9 | 1612.4 | 1636.3 | 1865.7 | 2128.7 | 2343.6 |
| 27.5° | 2362.4 | 2326.1 | 2204.6 | 1985.5 | 1733.9 | 1598.4 | 1685.8 | 1707.9 | 1928.4 | 2172.6 | 2394.8 |
| 30°   | 2776.8 | 2766.5 | 2623.3 | 2374.3 | 2037.5 | 1795.3 | 1780.4 | 1799.2 | 1974.8 | 2199.1 | 2435.3 |
| 32.5° | 3128.1 | 3111.9 | 2996.8 | 2754.6 | 2385.0 | 2032.0 | 1891.7 | 1897.2 | 2009.8 | 2233.2 | 2488.1 |
| 35°   | 3453.8 | 3433.8 | 3332.7 | 3103.8 | 2741.4 | 2321.0 | 2063.1 | 2055.0 | 2086.1 | 2301.8 | 2564.9 |
| 37.5° | 3738.2 | 3756.5 | 3644.4 | 3426.5 | 3061.1 | 2621.6 | 2294.2 | 2269.9 | 2205.5 | 2413.5 | 2676.2 |
| 40°   | 3976.1 | 3976.1 | 3917.7 | 3736.0 | 3406.5 | 2932.4 | 2555.5 | 2523.5 | 2385.0 | 2585.8 | 2817.3 |
| 42.5° | 4061.8 | 4080.1 | 4101.8 | 3999.1 | 3715.6 | 3255.6 | 2846.7 | 2813.4 | 2637.8 | 2830.1 | 2995.5 |
| 45°   | 4066.9 | 4095.9 | 4207.2 | 4206.7 | 3994.8 | 3576.6 | 3175.0 | 3159.2 | 2961.8 | 3143.9 | 3216.3 |
| 47.5° | 3994.8 | 4031.1 | 4214.4 | 4318.4 | 4216.1 | 3875.5 | 3534.0 | 3514.3 | 3342.5 | 3528.4 | 3447.4 |
| 50°   | 3883.6 | 3923.6 | 4136.8 | 4362.3 | 4366.6 | 4135.5 | 3912.1 | 3882.7 | 3761.6 | 3968.0 | 3686.2 |
| 52.5° | 3684.5 | 3762.1 | 4067.3 | 4372.6 | 4465.5 | 4360.2 | 4272.0 | 4259.2 | 4230.6 | 4391.3 | 3876.3 |
| 55°   | 3258.5 | 3344.7 | 3892.9 | 4376.0 | 4557.2 | 4559.3 | 4609.2 | 4612.6 | 4670.2 | 4787.0 | 4017.9 |
| 57.5° | 3057.3 | 3105.9 | 3588.5 | 4392.2 | 4693.2 | 4785.3 | 4952.8 | 4979.3 | 5068.4 | 5162.6 | 4179.4 |
| 60°   | 2930.7 | 2988.2 | 3438.5 | 4370.0 | 4906.8 | 5081.6 | 5271.3 | 5280.3 | 5375.8 | 5550.1 | 4398.2 |
| 62.5° | 2829.6 | 2886.3 | 3343.8 | 4284.8 | 5146.8 | 5438.0 | 5582.5 | 5583.4 | 5655.0 | 6011.9 | 4646.7 |
| 65°   | 2580.2 | 2628.0 | 3152.4 | 4188.8 | 5305.4 | 5790.6 | 5944.1 | 5938.5 | 5996.9 | 6498.8 | 4935.4 |
| 67.5° | 2219.5 | 2256.2 | 2761.4 | 3825.2 | 5245.7 | 6111.2 | 6489.8 | 6471.5 | 6400.7 | 6919.6 | 5048.8 |
| 70°   | 1716.0 | 1729.2 | 2176.5 | 3187.8 | 4686.4 | 6234.4 | 7017.2 | 7007.8 | 6648.4 | 6844.1 | 4633.1 |
| 71°   | 1418.4 | 1461.9 | 1918.1 | 2813.4 | 4311.6 | 6120.6 | 7068.3 | 7073.9 | 6586.2 | 6638.6 | 4347.0 |
| 72.5° | 823.7  | 860.8  | 1390.3 | 2160.7 | 3660.6 | 5645.6 | 6803.2 | 6843.2 | 6295.4 | 6038.3 | 3713.0 |
| 75°   | 176.5  | 188.9  | 515.4  | 1045.8 | 2013.6 | 3956.9 | 5369.8 | 5512.6 | 5131.0 | 4107.8 | 2237.9 |
| 77.5° | 122.8  | 132.6  | 220.8  | 474.5  | 665.5  | 1955.2 | 3335.7 | 3496.9 | 3065.4 | 1543.8 | 716.3  |
| 80°   | 97.2   | 108.3  | 172.2  | 234.5  | 179.9  | 630.6  | 1562.5 | 1661.0 | 1022.4 | 344.5  | 120.7  |
| 82.5° | 54.1   | 64.4   | 134.3  | 126.6  | 69.1   | 119.8  | 437.4  | 494.6  | 204.6  | 69.5   | 28.6   |
| 85°   | 15.8   | 19.2   | 86.5   | 92.1   | 29.4   | 23.0   | 74.6   | 92.5   | 38.8   | 18.3   | 12.8   |
| 87.5° | 0.0    | 0.0    | 41.8   | 35.4   | 8.5    | 3.4    | 6.8    | 7.7    | 7.7    | 7.7    | 8.5    |
| 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°    | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 | 1831.1 |
| 2.5°  | 1838.4 | 1841.4 | 1830.7 | 1816.6 | 1801.7 | 1783.4 | 1764.2 | 1749.3 | 1748.9 | 1741.6 | 1734.4 |
| 5°    | 1861.0 | 1859.3 | 1829.9 | 1785.1 | 1732.2 | 1677.2 | 1624.8 | 1565.5 | 1545.9 | 1521.6 | 1513.5 |
| 7.5°  | 1902.8 | 1890.8 | 1828.6 | 1730.5 | 1614.6 | 1499.4 | 1380.5 | 1260.7 | 1209.5 | 1163.5 | 1155.4 |
| 10°   | 1955.2 | 1932.6 | 1820.5 | 1648.7 | 1435.9 | 1223.6 | 1044.1 | 881.3  | 809.6  | 754.6  | 752.1  |
| 12.5° | 2009.8 | 1975.2 | 1797.9 | 1525.0 | 1201.9 | 903.4  | 696.6  | 536.3  | 476.7  | 438.3  | 441.7  |
| 15°   | 2066.9 | 2015.3 | 1749.3 | 1358.3 | 935.4  | 613.1  | 428.0  | 333.8  | 310.0  | 300.1  | 302.7  |
| 17.5° | 2125.3 | 2043.0 | 1681.5 | 1157.5 | 672.3  | 395.6  | 296.3  | 269.9  | 269.9  | 272.0  | 272.9  |
| 20°   | 2176.1 | 2058.0 | 1581.7 | 932.4  | 455.8  | 288.2  | 259.2  | 255.4  | 257.5  | 260.9  | 261.3  |
| 22.5° | 2226.4 | 2058.8 | 1451.7 | 704.3  | 318.9  | 252.4  | 246.9  | 245.1  | 246.4  | 250.3  | 250.7  |
| 25°   | 2267.3 | 2048.6 | 1288.8 | 501.0  | 254.5  | 237.9  | 235.3  | 234.5  | 235.3  | 240.0  | 240.0  |
| 27.5° | 2283.9 | 2011.5 | 1090.2 | 352.2  | 228.1  | 221.7  | 220.8  | 221.7  | 223.0  | 226.4  | 226.8  |
| 30°   | 2285.6 | 1946.7 | 873.6  | 255.0  | 206.8  | 200.0  | 201.7  | 204.6  | 203.4  | 202.5  | 203.4  |
| 32.5° | 2289.9 | 1871.6 | 662.5  | 209.8  | 188.9  | 178.2  | 176.1  | 176.1  | 171.0  | 168.0  | 166.3  |
| 35°   | 2304.0 | 1783.4 | 480.5  | 188.4  | 170.5  | 158.2  | 150.1  | 140.7  | 130.9  | 125.8  | 124.5  |
| 37.5° | 2326.1 | 1690.9 | 344.1  | 174.4  | 154.3  | 140.3  | 124.9  | 108.3  | 94.2   | 90.4   | 90.4   |
| 40°   | 2366.6 | 1595.4 | 254.5  | 163.3  | 141.5  | 124.1  | 101.0  | 79.3   | 66.5   | 64.4   | 64.4   |
| 42.5° | 2430.6 | 1494.8 | 202.9  | 153.5  | 130.5  | 107.4  | 77.2   | 57.6   | 48.2   | 46.9   | 46.5   |
| 45°   | 2497.1 | 1383.9 | 177.4  | 144.1  | 118.5  | 88.3   | 57.1   | 42.6   | 37.1   | 35.8   | 35.8   |
| 47.5° | 2563.6 | 1265.8 | 165.0  | 135.2  | 107.0  | 68.6   | 42.6   | 33.7   | 31.1   | 31.1   | 31.5   |
| 50°   | 2619.9 | 1142.6 | 156.0  | 125.3  | 92.1   | 52.0   | 33.7   | 28.6   | 27.7   | 29.4   | 29.8   |
| 52.5° | 2633.9 | 1021.5 | 145.0  | 113.0  | 73.8   | 39.6   | 27.7   | 25.2   | 25.2   | 25.2   | 25.2   |
| 55°   | 2625.4 | 927.7  | 130.5  | 97.6   | 54.6   | 31.5   | 23.9   | 22.2   | 21.7   | 21.7   | 21.7   |
| 57.5° | 2654.4 | 872.3  | 104.5  | 75.9   | 39.2   | 25.6   | 20.9   | 19.6   | 18.8   | 18.3   | 18.3   |
| 60°   | 2712.8 | 836.1  | 74.6   | 54.6   | 29.4   | 21.3   | 17.9   | 16.6   | 15.3   | 14.5   | 14.5   |
| 62.5° | 2790.4 | 804.5  | 55.4   | 40.5   | 22.6   | 17.1   | 14.9   | 13.6   | 11.9   | 11.1   | 11.1   |
| 65°   | 2850.1 | 748.2  | 42.2   | 30.3   | 17.1   | 13.6   | 11.5   | 11.1   | 8.5    | 7.7    | 7.2    |
| 67.5° | 2758.9 | 624.6  | 34.1   | 22.2   | 12.8   | 10.7   | 9.0    | 8.5    | 5.1    | 4.3    | 4.3    |
| 70°   | 2366.2 | 434.9  | 27.3   | 16.2   | 9.4    | 8.5    | 7.2    | 5.5    | 3.8    | 3.4    | 3.4    |
| 71°   | 2145.8 | 363.2  | 24.7   | 13.6   | 8.1    | 8.1    | 6.8    | 4.7    | 3.4    | 3.0    | 3.0    |
| 72.5° | 1782.5 | 257.9  | 20.9   | 10.7   | 7.2    | 8.5    | 7.2    | 4.3    | 3.4    | 3.0    | 2.6    |
| 75°   | 1034.7 | 107.9  | 14.5   | 7.2    | 5.5    | 10.2   | 9.4    | 3.8    | 2.6    | 2.1    | 2.1    |
| 77.5° | 311.2  | 39.6   | 8.1    | 4.7    | 4.3    | 9.0    | 10.7   | 3.4    | 1.3    | 0.4    | 0.4    |
| 80°   | 56.7   | 17.1   | 5.1    | 3.0    | 3.0    | 5.5    | 8.1    | 1.7    | 0.0    | 0.0    | 0.0    |
| 82.5° | 20.0   | 8.5    | 3.0    | 1.7    | 1.3    | 2.6    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 11.5   | 6.0    | 1.7    | 0.9    | 0.0    | 0.4    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.7    | 1.7    | 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)