

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: P1208758

Luminaire Tested: UPW-SA2-070-727-U-T3-HSS

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/19/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-070-727-U-T3-HSS  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5927 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

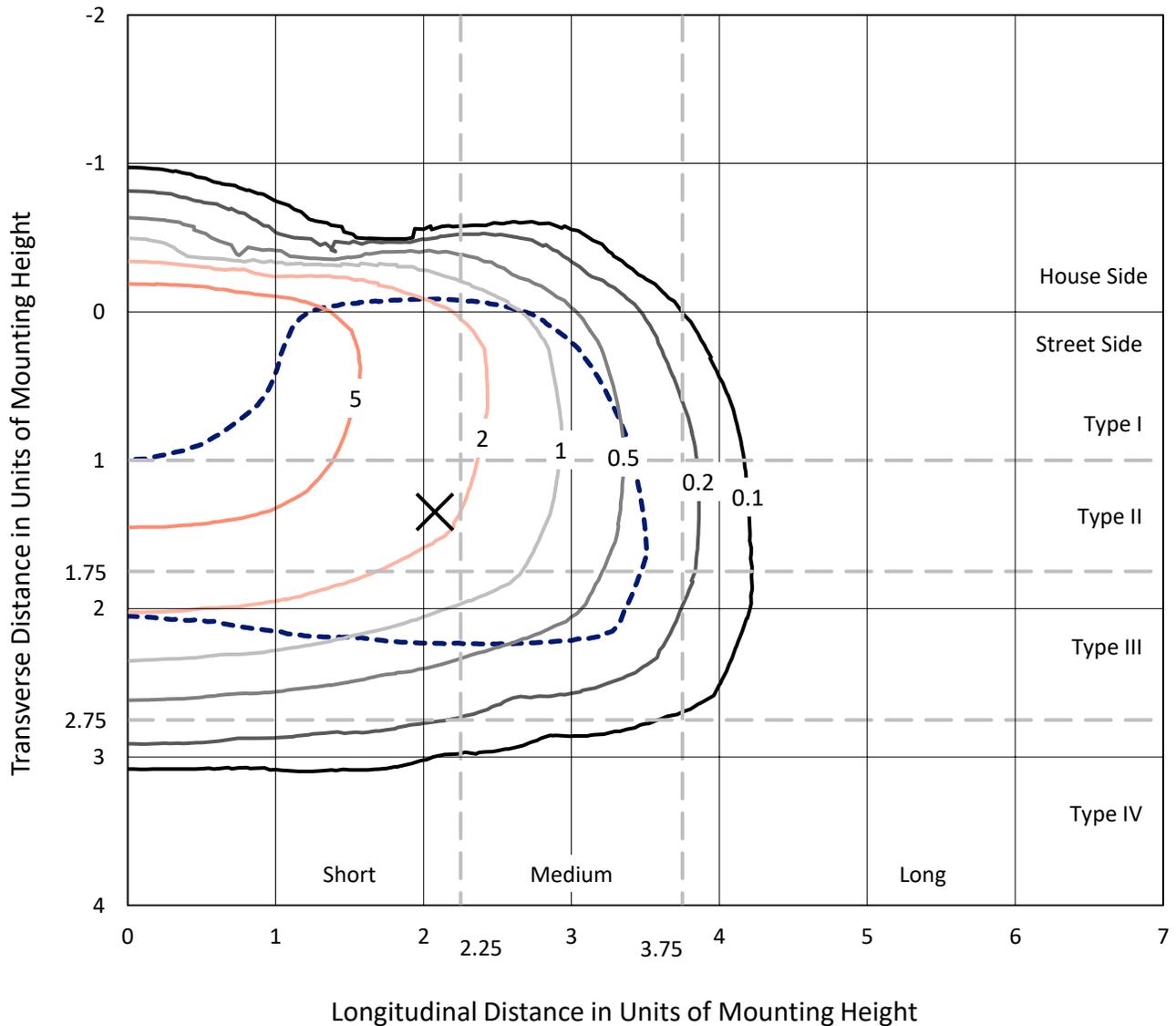
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

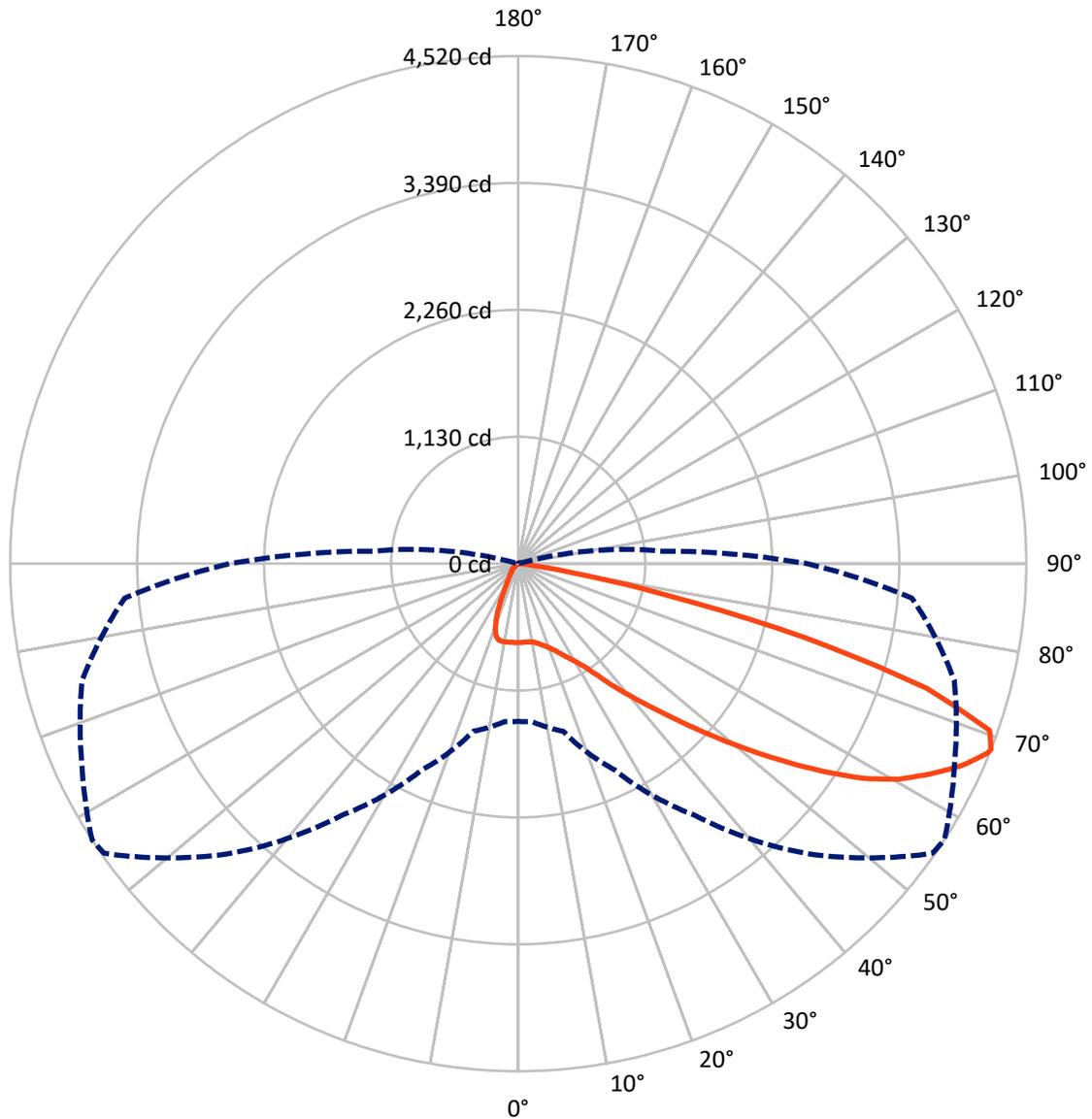
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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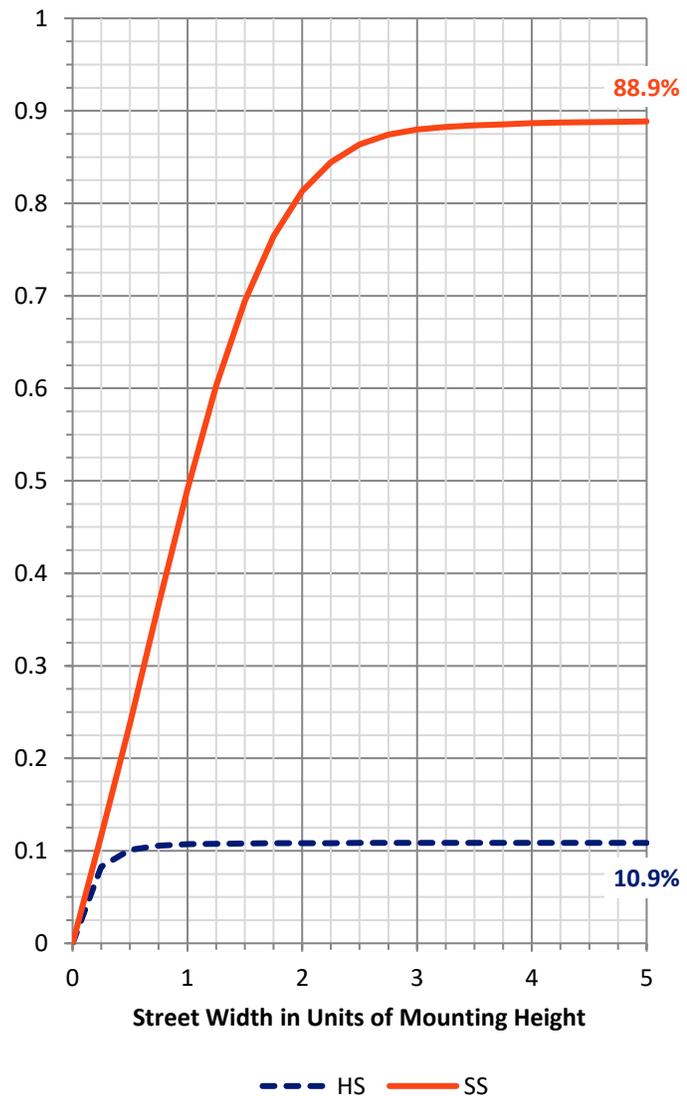
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 649.9    | 0.0    | 649.9  |
|                    | % Fixture | 11.0     | 0.0    | 11.0   |
| <b>Street Side</b> | Lumens    | 5277.1   | 0.0    | 5277.1 |
|                    | % Fixture | 89.0     | 0.0    | 89.0   |
| <b>Total</b>       | Lumens    | 5927.0   | 0.0    | 5927.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.9   | 1.1       |
| 10°-20°   | 182.6  | 3.1       |
| 20°-30°   | 315.1  | 5.3       |
| 30°-40°   | 543.8  | 9.2       |
| 40°-50°   | 930.2  | 15.7      |
| 50°-60°   | 1488.2 | 25.1      |
| 60°-70°   | 1719.5 | 29.0      |
| 70°-80°   | 657.0  | 11.1      |
| 80°-90°   | 24.6   | 0.4       |
| 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°    | 5927.0 | 100.0     |
| 0°-180°   | 5927.0 | 100.0     |

**Coefficient of Utilization**



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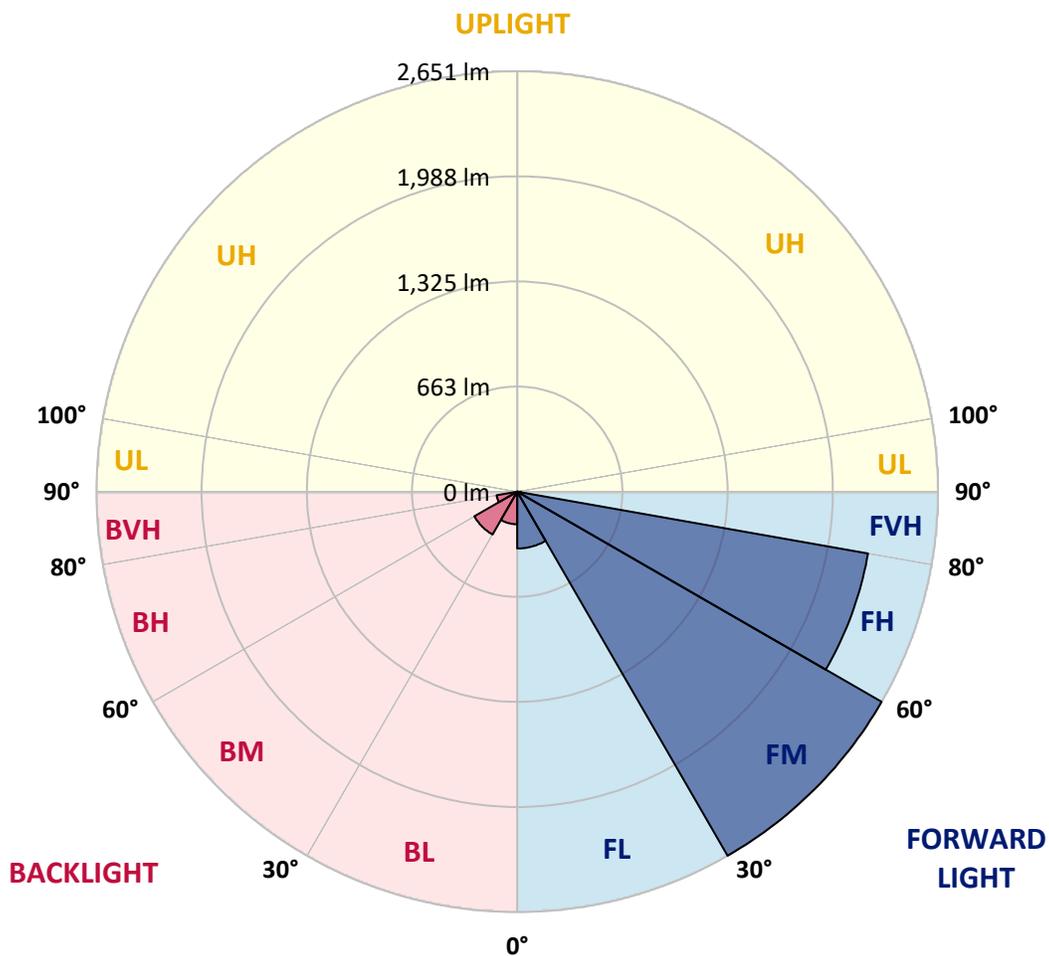
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 358.2  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 2650.5 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 2244.2 | 37.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 24.2   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 205.4  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 311.7  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 132.4  | 2.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.5    | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  | 704.3  |
| 2.5°  | 687.7  | 690.8  | 693.1  | 694.5  | 696.2  | 699.8  | 700.9  | 702.6  | 703.4  | 703.4  | 705.4  |
| 5°    | 660.6  | 663.9  | 668.7  | 672.6  | 680.5  | 690.6  | 697.8  | 700.6  | 705.7  | 710.2  | 712.7  |
| 7.5°  | 635.3  | 639.3  | 644.9  | 654.1  | 667.6  | 683.8  | 699.0  | 702.9  | 712.7  | 722.2  | 727.0  |
| 10°   | 619.1  | 622.2  | 629.5  | 642.6  | 660.3  | 683.0  | 704.3  | 709.0  | 725.9  | 741.8  | 750.8  |
| 12.5° | 613.5  | 616.3  | 623.9  | 638.7  | 660.6  | 687.2  | 716.6  | 723.6  | 748.3  | 771.5  | 784.2  |
| 15°   | 621.6  | 622.2  | 630.3  | 644.3  | 665.9  | 697.6  | 737.1  | 745.5  | 776.6  | 806.9  | 822.6  |
| 17.5° | 653.0  | 650.5  | 654.7  | 660.8  | 677.9  | 711.3  | 758.7  | 771.3  | 812.7  | 848.3  | 863.2  |
| 20°   | 731.5  | 731.5  | 721.9  | 705.1  | 705.4  | 732.6  | 787.8  | 802.1  | 852.8  | 894.0  | 907.5  |
| 22.5° | 865.7  | 863.2  | 844.1  | 802.9  | 765.1  | 769.3  | 823.4  | 841.9  | 901.0  | 945.0  | 949.5  |
| 25°   | 1027.1 | 1024.1 | 994.6  | 936.6  | 871.0  | 828.7  | 871.6  | 892.9  | 958.5  | 997.4  | 988.2  |
| 27.5° | 1198.1 | 1195.6 | 1166.4 | 1094.4 | 1001.1 | 923.4  | 929.0  | 949.2  | 1017.0 | 1055.4 | 1026.0 |
| 30°   | 1363.7 | 1364.6 | 1335.7 | 1261.7 | 1156.1 | 1044.2 | 1001.9 | 1013.7 | 1073.9 | 1112.9 | 1070.9 |
| 32.5° | 1521.2 | 1522.4 | 1497.4 | 1414.7 | 1316.1 | 1184.6 | 1102.8 | 1099.7 | 1140.1 | 1178.5 | 1130.3 |
| 35°   | 1661.6 | 1664.4 | 1647.3 | 1583.2 | 1478.6 | 1341.0 | 1233.7 | 1226.4 | 1234.0 | 1277.4 | 1221.4 |
| 37.5° | 1797.0 | 1798.7 | 1785.8 | 1731.7 | 1644.3 | 1512.8 | 1399.0 | 1388.7 | 1372.4 | 1405.8 | 1341.6 |
| 40°   | 1945.3 | 1941.1 | 1926.2 | 1877.2 | 1802.0 | 1702.6 | 1576.7 | 1558.8 | 1530.5 | 1560.2 | 1499.7 |
| 42.5° | 2083.1 | 2078.4 | 2080.9 | 2025.4 | 1962.1 | 1897.6 | 1783.8 | 1753.0 | 1736.5 | 1770.7 | 1693.6 |
| 45°   | 2255.5 | 2253.0 | 2261.4 | 2213.2 | 2161.9 | 2115.1 | 2021.2 | 1987.6 | 1980.3 | 2020.4 | 1928.2 |
| 47.5° | 2425.6 | 2431.8 | 2457.8 | 2437.4 | 2416.6 | 2375.5 | 2272.6 | 2257.5 | 2261.9 | 2310.4 | 2175.6 |
| 50°   | 2567.4 | 2574.7 | 2646.2 | 2669.7 | 2699.7 | 2675.6 | 2572.5 | 2563.2 | 2580.9 | 2624.6 | 2441.9 |
| 52.5° | 2670.0 | 2684.9 | 2773.7 | 2882.2 | 2991.5 | 3007.7 | 2904.9 | 2896.4 | 2920.3 | 2927.0 | 2647.6 |
| 55°   | 2741.2 | 2754.4 | 2855.0 | 3053.4 | 3275.9 | 3346.0 | 3282.1 | 3249.6 | 3245.1 | 3178.7 | 2863.9 |
| 57.5° | 2753.8 | 2752.4 | 2897.0 | 3164.1 | 3499.0 | 3679.8 | 3639.4 | 3607.5 | 3515.5 | 3411.3 | 3112.0 |
| 60°   | 2682.6 | 2690.7 | 2858.6 | 3202.5 | 3639.1 | 3932.3 | 3935.4 | 3893.9 | 3750.7 | 3637.4 | 3352.4 |
| 62.5° | 2463.5 | 2496.5 | 2666.1 | 3101.9 | 3637.4 | 4034.0 | 4152.3 | 4120.6 | 3949.4 | 3822.7 | 3596.2 |
| 65°   | 2108.1 | 2119.9 | 2281.6 | 2757.2 | 3391.7 | 3991.4 | 4347.6 | 4335.8 | 4128.5 | 4002.6 | 3721.5 |
| 67.5° | 1539.4 | 1513.9 | 1683.8 | 2171.1 | 2871.5 | 3743.1 | 4487.7 | 4502.6 | 4266.6 | 4039.6 | 3588.1 |
| 68°   | 1404.9 | 1412.5 | 1544.8 | 2026.3 | 2735.3 | 3655.4 | 4497.0 | 4519.7 | 4280.4 | 4015.5 | 3515.3 |
| 70°   | 837.4  | 852.0  | 970.0  | 1395.1 | 2080.9 | 3159.0 | 4397.2 | 4449.1 | 4198.5 | 3766.9 | 3040.5 |
| 72.5° | 213.8  | 231.2  | 342.8  | 624.4  | 1188.6 | 2225.8 | 3712.0 | 3799.7 | 3645.3 | 3055.9 | 2052.6 |
| 75°   | 88.0   | 92.5   | 122.5  | 205.7  | 442.8  | 1002.8 | 2446.6 | 2634.4 | 2527.1 | 1829.5 | 927.6  |
| 77.5° | 60.8   | 63.9   | 78.8   | 114.1  | 191.7  | 340.0  | 1199.5 | 1335.1 | 1202.9 | 624.4  | 202.3  |
| 80°   | 43.7   | 46.2   | 56.3   | 75.9   | 110.1  | 121.4  | 391.0  | 452.1  | 359.0  | 137.0  | 50.2   |
| 82.5° | 26.1   | 28.0   | 42.0   | 54.1   | 67.0   | 58.0   | 97.2   | 110.4  | 104.0  | 68.1   | 22.4   |
| 85°   | 12.9   | 15.1   | 28.3   | 38.7   | 36.2   | 24.4   | 29.7   | 33.1   | 40.9   | 41.5   | 12.1   |
| 87.5° | 0.8    | 1.7    | 16.5   | 23.3   | 10.1   | 5.6    | 8.7    | 10.6   | 14.6   | 20.5   | 5.0    |
| 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°    | 704.3  | 704.3  | 704.3 | 704.3 | 704.3 | 704.3 | 704.3 | 704.3 | 704.3 | 704.3 | 704.3 |
| 2.5°  | 706.2  | 706.5  | 704.6 | 703.7 | 704.3 | 700.9 | 699.5 | 700.1 | 700.1 | 700.9 | 699.5 |
| 5°    | 713.3  | 713.3  | 709.9 | 705.4 | 702.9 | 696.4 | 692.2 | 691.1 | 690.3 | 689.7 | 688.6 |
| 7.5°  | 728.4  | 726.7  | 720.8 | 711.0 | 702.6 | 688.6 | 677.9 | 672.3 | 669.5 | 668.4 | 667.6 |
| 10°   | 752.8  | 749.7  | 739.9 | 721.7 | 702.3 | 677.4 | 654.1 | 637.6 | 623.9 | 618.2 | 614.9 |
| 12.5° | 785.6  | 781.1  | 764.5 | 734.3 | 700.4 | 654.4 | 604.0 | 555.5 | 510.3 | 491.8 | 482.6 |
| 15°   | 823.4  | 816.9  | 790.9 | 744.9 | 688.9 | 602.6 | 493.0 | 408.1 | 345.6 | 322.0 | 311.9 |
| 17.5° | 861.8  | 853.4  | 813.9 | 751.6 | 654.4 | 495.2 | 345.8 | 261.2 | 219.4 | 208.2 | 204.3 |
| 20°   | 900.5  | 888.1  | 833.8 | 746.6 | 576.5 | 357.0 | 228.1 | 190.9 | 178.8 | 175.4 | 174.3 |
| 22.5° | 937.2  | 918.1  | 851.7 | 727.0 | 456.5 | 239.6 | 180.5 | 168.7 | 164.8 | 162.8 | 162.3 |
| 25°   | 969.1  | 942.5  | 867.4 | 666.4 | 323.1 | 181.0 | 162.5 | 158.6 | 153.6 | 149.9 | 150.2 |
| 27.5° | 999.1  | 966.9  | 876.9 | 566.7 | 215.5 | 154.7 | 150.5 | 145.2 | 135.9 | 130.6 | 130.6 |
| 30°   | 1035.3 | 999.4  | 883.9 | 436.1 | 158.6 | 136.8 | 133.4 | 125.3 | 112.7 | 105.7 | 105.7 |
| 32.5° | 1089.6 | 1048.7 | 879.4 | 306.0 | 131.4 | 120.2 | 112.4 | 101.2 | 87.4  | 80.7  | 80.4  |
| 35°   | 1172.9 | 1124.9 | 847.5 | 200.7 | 116.0 | 104.5 | 91.9  | 78.2  | 66.1  | 60.5  | 60.3  |
| 37.5° | 1285.0 | 1227.0 | 775.7 | 143.5 | 104.0 | 90.0  | 74.8  | 59.7  | 50.7  | 47.1  | 46.8  |
| 40°   | 1430.4 | 1345.5 | 673.2 | 116.3 | 92.8  | 75.9  | 57.7  | 46.2  | 40.1  | 37.3  | 37.6  |
| 42.5° | 1605.0 | 1472.5 | 550.1 | 100.3 | 81.8  | 62.5  | 45.1  | 36.4  | 32.5  | 30.5  | 30.0  |
| 45°   | 1799.0 | 1597.7 | 421.2 | 89.4  | 70.9  | 50.4  | 35.3  | 28.9  | 25.8  | 24.7  | 24.7  |
| 47.5° | 2012.2 | 1719.7 | 308.3 | 79.9  | 59.1  | 39.0  | 28.3  | 23.5  | 21.0  | 20.2  | 19.9  |
| 50°   | 2205.9 | 1804.3 | 222.2 | 69.8  | 48.5  | 30.8  | 23.0  | 19.6  | 17.9  | 16.8  | 16.8  |
| 52.5° | 2367.3 | 1830.9 | 163.7 | 58.9  | 39.2  | 24.7  | 19.1  | 16.8  | 15.1  | 14.3  | 14.3  |
| 55°   | 2509.4 | 1820.0 | 121.6 | 48.5  | 31.7  | 20.2  | 16.3  | 14.3  | 12.9  | 12.1  | 12.1  |
| 57.5° | 2645.6 | 1784.7 | 90.8  | 39.5  | 25.5  | 16.3  | 13.7  | 12.1  | 10.6  | 10.1  | 10.1  |
| 60°   | 2756.9 | 1725.8 | 67.5  | 31.9  | 20.5  | 13.2  | 11.5  | 9.8   | 8.7   | 7.8   | 7.8   |
| 62.5° | 2847.1 | 1660.8 | 49.6  | 26.3  | 16.3  | 10.4  | 9.0   | 8.1   | 6.4   | 5.6   | 5.6   |
| 65°   | 2847.7 | 1552.9 | 37.3  | 21.9  | 12.6  | 8.1   | 6.7   | 6.4   | 4.2   | 3.4   | 3.1   |
| 67.5° | 2641.7 | 1338.8 | 28.6  | 18.8  | 9.8   | 6.2   | 5.0   | 5.3   | 2.2   | 1.4   | 1.1   |
| 68°   | 2566.9 | 1284.4 | 26.9  | 18.5  | 9.2   | 5.9   | 4.8   | 5.3   | 2.0   | 1.1   | 0.8   |
| 70°   | 2164.1 | 1021.8 | 21.6  | 17.9  | 8.1   | 4.5   | 3.9   | 5.3   | 1.7   | 0.8   | 0.6   |
| 72.5° | 1384.2 | 593.0  | 16.0  | 14.3  | 6.2   | 3.4   | 2.5   | 4.8   | 1.7   | 0.6   | 0.3   |
| 75°   | 589.1  | 183.8  | 10.9  | 10.1  | 3.6   | 2.5   | 1.7   | 3.1   | 1.1   | 0.3   | 0.0   |
| 77.5° | 124.2  | 41.5   | 6.4   | 6.2   | 2.5   | 1.7   | 1.1   | 0.8   | 0.3   | 0.0   | 0.0   |
| 80°   | 31.9   | 12.1   | 3.4   | 3.1   | 1.4   | 0.8   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 10.1   | 4.8    | 2.0   | 1.4   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 5.0    | 2.8    | 1.1   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.8    | 0.8    | 0.3   | 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)