

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: P1208127

Luminaire Tested: UPW-SA1-040-750-U-SL4

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-5)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA1-040-750-U-SL4  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5955 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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



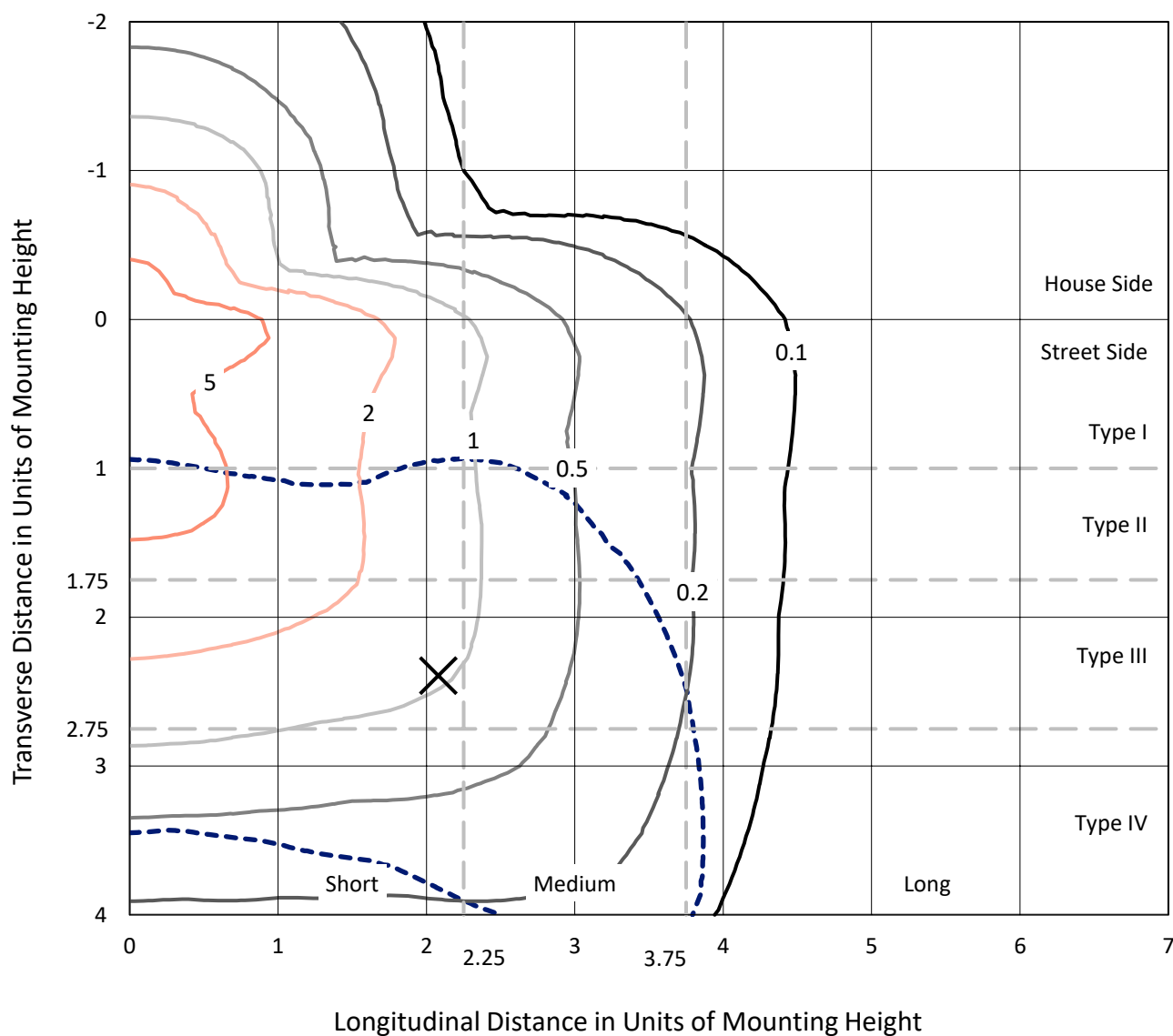
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

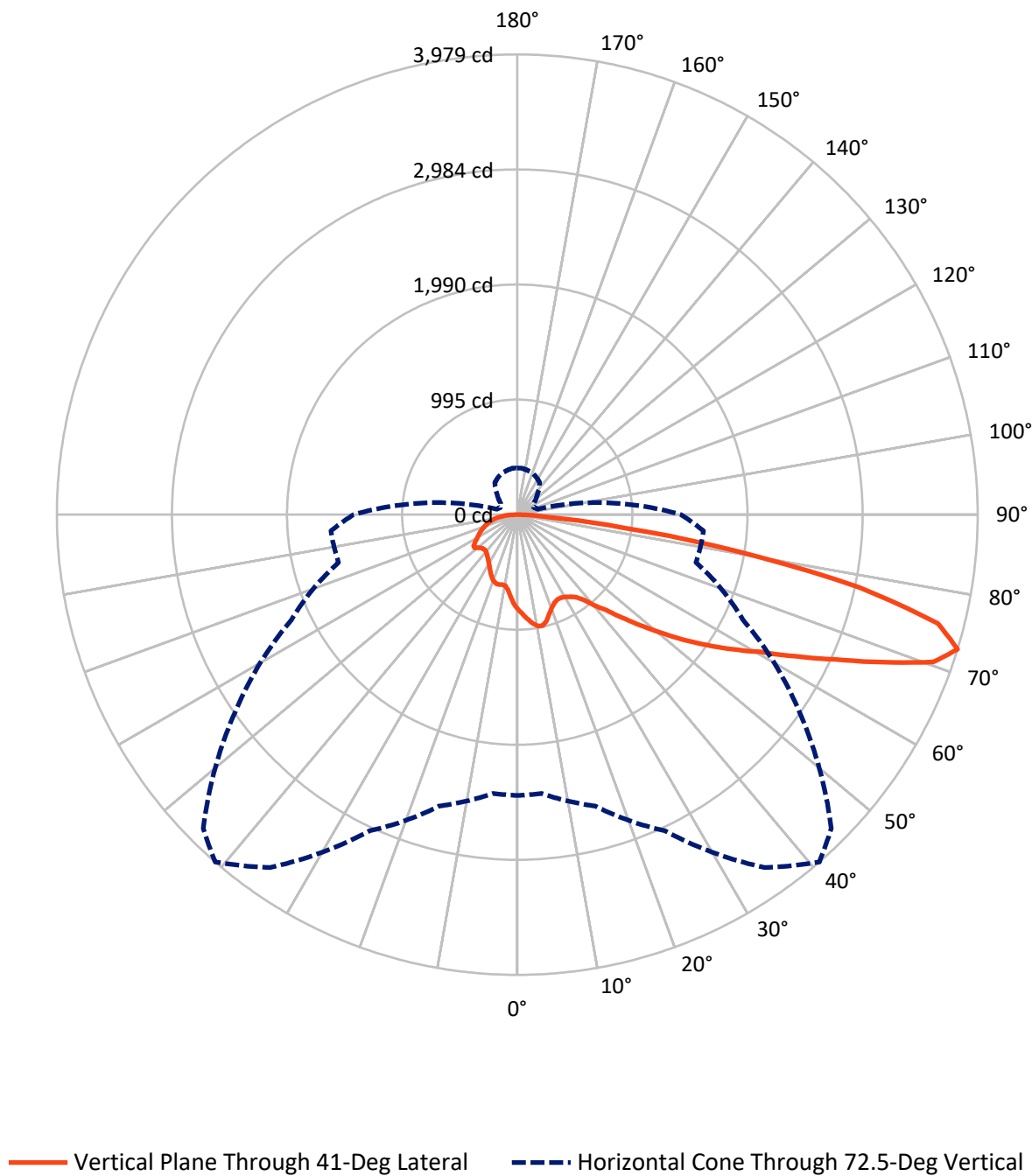


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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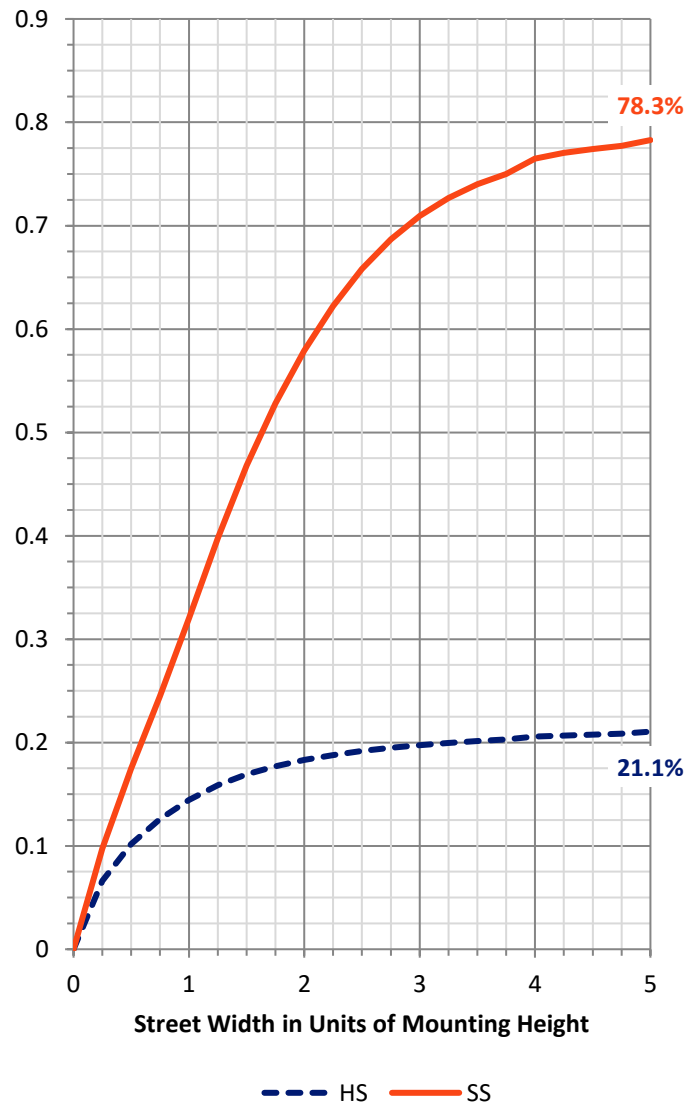
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1288.6   | 0.0    | 1288.6 |
|                    | % Fixture | 21.6     | 0.0    | 21.6   |
| <b>Street Side</b> | Lumens    | 4666.4   | 0.0    | 4666.4 |
|                    | % Fixture | 78.4     | 0.0    | 78.4   |
| <b>Total</b>       | Lumens    | 5955.0   | 0.0    | 5955.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.1   | 1.3       |
| 10°-20°   | 235.2  | 3.9       |
| 20°-30°   | 361.5  | 6.1       |
| 30°-40°   | 496.9  | 8.3       |
| 40°-50°   | 757.2  | 12.7      |
| 50°-60°   | 1118.2 | 18.8      |
| 60°-70°   | 1468.5 | 24.7      |
| 70°-80°   | 1258.2 | 21.1      |
| 80°-90°   | 181.3  | 3.0       |
| 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°    | 5955.0 | 100.0     |
| 0°-180°   | 5955.0 | 100.0     |

**Coefficient of Utilization**



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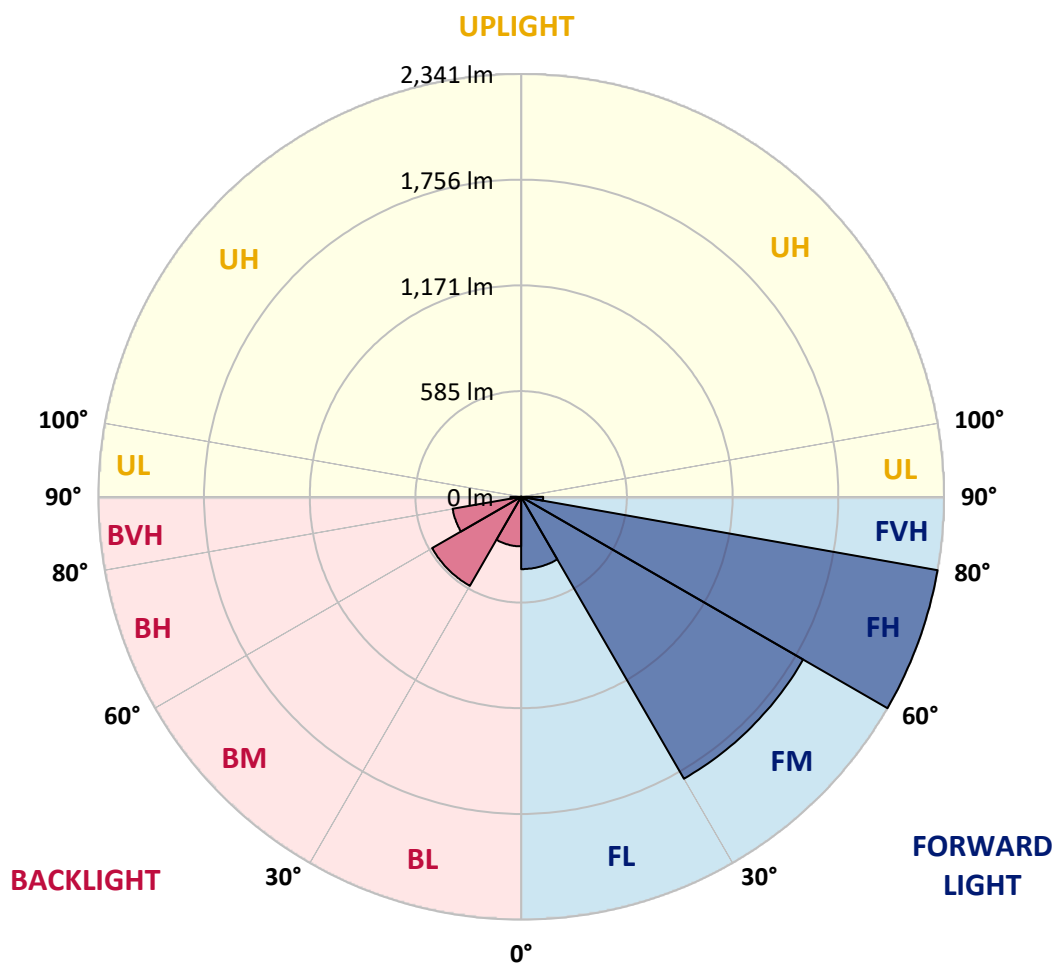
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 400.5  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 1802.8 | 30.3      |                         |      |         |
| FH   | (60°-80°)   | 2341.4 | 39.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 121.8  | 2.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 274.2  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 569.5  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 385.3  | 6.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 59.5   | 1.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 41°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  | 818.5  |
| 2.5°  | 871.5  | 868.9  | 868.9  | 867.0  | 863.7  | 859.1  | 858.4  | 852.5  | 846.7  | 838.1  | 829.6  |
| 5°    | 922.0  | 918.0  | 916.7  | 914.1  | 910.8  | 904.3  | 904.9  | 894.5  | 882.0  | 865.6  | 848.6  |
| 7.5°  | 958.0  | 955.4  | 954.7  | 955.4  | 950.8  | 947.5  | 947.5  | 935.1  | 922.6  | 904.9  | 878.7  |
| 10°   | 970.4  | 967.1  | 969.8  | 975.7  | 980.2  | 979.6  | 982.9  | 978.3  | 969.1  | 954.0  | 917.4  |
| 12.5° | 948.1  | 948.1  | 949.5  | 957.3  | 972.4  | 984.2  | 994.6  | 1013.6 | 1022.1 | 1009.0 | 963.2  |
| 15°   | 914.1  | 912.1  | 910.2  | 913.4  | 931.8  | 951.4  | 973.7  | 1024.8 | 1062.1 | 1061.4 | 1011.7 |
| 17.5° | 893.8  | 892.5  | 878.7  | 865.6  | 875.5  | 898.4  | 926.5  | 1008.4 | 1087.6 | 1109.2 | 1060.1 |
| 20°   | 882.0  | 879.4  | 863.0  | 836.8  | 832.9  | 856.5  | 878.1  | 975.0  | 1091.5 | 1155.1 | 1106.0 |
| 22.5° | 872.2  | 870.9  | 849.9  | 815.2  | 805.4  | 825.0  | 847.3  | 934.4  | 1077.1 | 1185.2 | 1146.6 |
| 25°   | 876.8  | 874.2  | 848.0  | 806.7  | 794.9  | 811.3  | 830.9  | 902.3  | 1051.6 | 1202.2 | 1179.3 |
| 27.5° | 899.0  | 899.0  | 864.3  | 815.2  | 800.2  | 811.3  | 826.4  | 884.6  | 1024.1 | 1206.8 | 1209.4 |
| 30°   | 950.1  | 948.1  | 904.3  | 844.7  | 820.5  | 825.0  | 835.5  | 878.7  | 997.3  | 1198.3 | 1229.1 |
| 32.5° | 1039.8 | 1033.3 | 978.9  | 897.7  | 850.6  | 846.0  | 848.0  | 874.8  | 969.8  | 1183.2 | 1248.0 |
| 35°   | 1202.9 | 1185.2 | 1102.0 | 991.4  | 904.3  | 876.1  | 868.3  | 878.7  | 953.4  | 1172.7 | 1265.7 |
| 37.5° | 1420.3 | 1395.4 | 1292.6 | 1136.1 | 997.3  | 937.0  | 910.2  | 897.7  | 950.8  | 1160.3 | 1282.8 |
| 40°   | 1627.2 | 1612.1 | 1490.3 | 1307.6 | 1117.7 | 1033.3 | 989.4  | 926.5  | 954.0  | 1152.4 | 1306.3 |
| 42.5° | 1891.1 | 1866.8 | 1725.4 | 1487.7 | 1250.0 | 1128.2 | 1064.7 | 965.2  | 975.0  | 1157.7 | 1333.2 |
| 45°   | 2175.2 | 2170.7 | 1994.5 | 1709.0 | 1415.0 | 1269.0 | 1188.5 | 1037.9 | 1015.6 | 1178.6 | 1373.1 |
| 47.5° | 2482.3 | 2461.4 | 2276.7 | 1966.4 | 1602.3 | 1426.8 | 1327.3 | 1121.7 | 1073.9 | 1214.0 | 1426.2 |
| 50°   | 2743.6 | 2728.5 | 2538.7 | 2204.1 | 1806.6 | 1599.7 | 1483.8 | 1223.2 | 1146.6 | 1261.8 | 1481.8 |
| 52.5° | 2883.1 | 2871.9 | 2755.4 | 2454.2 | 2016.1 | 1795.5 | 1628.5 | 1329.2 | 1237.6 | 1321.4 | 1542.7 |
| 55°   | 2849.7 | 2843.1 | 2842.5 | 2642.8 | 2244.7 | 1992.6 | 1793.5 | 1442.5 | 1342.3 | 1392.8 | 1614.7 |
| 57.5° | 2840.5 | 2829.4 | 2835.3 | 2773.1 | 2462.0 | 2196.2 | 1976.8 | 1583.3 | 1473.3 | 1478.5 | 1690.0 |
| 60°   | 2849.7 | 2843.1 | 2876.5 | 2853.6 | 2666.3 | 2409.7 | 2190.3 | 1754.2 | 1610.2 | 1566.3 | 1757.5 |
| 62.5° | 2934.8 | 2919.1 | 2945.3 | 2993.7 | 2889.0 | 2699.1 | 2460.1 | 1957.8 | 1762.1 | 1632.4 | 1809.9 |
| 65°   | 3065.1 | 3035.6 | 3044.2 | 3166.6 | 3151.5 | 3014.7 | 2780.3 | 2223.0 | 1904.8 | 1685.5 | 1834.1 |
| 67.5° | 3102.4 | 3092.6 | 3114.9 | 3271.4 | 3427.9 | 3404.3 | 3186.3 | 2515.7 | 2044.3 | 1715.6 | 1806.6 |
| 70°   | 2948.6 | 2936.1 | 3035.6 | 3277.3 | 3699.6 | 3814.9 | 3612.5 | 2798.0 | 2163.5 | 1704.4 | 1743.7 |
| 72.5° | 2427.3 | 2419.5 | 2608.7 | 3016.0 | 3724.5 | 3979.2 | 3837.8 | 2977.4 | 2153.6 | 1599.0 | 1616.0 |
| 75°   | 1570.2 | 1544.0 | 1847.8 | 2371.7 | 3342.1 | 3754.6 | 3654.4 | 2751.5 | 1886.5 | 1421.6 | 1392.1 |
| 77.5° | 555.3  | 624.0  | 798.2  | 1410.4 | 2539.3 | 3021.9 | 2854.3 | 2063.9 | 1393.4 | 1041.8 | 980.9  |
| 80°   | 193.8  | 203.6  | 254.7  | 528.4  | 1373.8 | 1935.6 | 1800.7 | 1196.3 | 744.5  | 542.8  | 520.6  |
| 82.5° | 113.9  | 119.2  | 133.6  | 193.8  | 505.5  | 919.3  | 767.4  | 502.2  | 272.4  | 233.1  | 204.3  |
| 85°   | 38.6   | 41.3   | 69.4   | 99.5   | 179.4  | 265.8  | 239.0  | 129.0  | 105.4  | 94.3   | 60.9   |
| 87.5° | 7.9    | 9.2    | 15.1   | 32.7   | 60.2   | 68.1   | 51.7   | 31.4   | 43.9   | 43.9   | 21.0   |
| 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°    | 818.5  | 818.5  | 818.5 | 818.5 | 818.5 | 818.5 | 818.5 | 818.5 | 818.5 | 818.5 | 818.5 |
| 2.5°  | 823.7  | 817.8  | 807.4 | 797.5 | 787.1 | 779.2 | 769.4 | 761.5 | 762.8 | 758.3 | 756.9 |
| 5°    | 837.5  | 825.0  | 800.2 | 774.0 | 747.1 | 721.6 | 700.0 | 682.3 | 672.5 | 667.2 | 666.6 |
| 7.5°  | 859.8  | 840.8  | 796.2 | 748.4 | 698.0 | 663.3 | 640.4 | 629.3 | 628.0 | 626.6 | 624.7 |
| 10°   | 894.5  | 864.3  | 794.9 | 718.3 | 654.8 | 624.7 | 620.7 | 628.6 | 639.7 | 645.6 | 645.6 |
| 12.5° | 931.1  | 892.5  | 794.3 | 687.5 | 621.4 | 611.6 | 629.3 | 651.5 | 669.9 | 678.4 | 677.1 |
| 15°   | 970.4  | 920.6  | 784.4 | 652.8 | 597.8 | 612.2 | 643.0 | 667.2 | 686.2 | 694.1 | 694.7 |
| 17.5° | 1012.3 | 946.2  | 768.1 | 614.9 | 580.8 | 610.9 | 642.4 | 663.3 | 680.3 | 686.2 | 684.9 |
| 20°   | 1048.3 | 969.1  | 745.2 | 576.2 | 565.7 | 598.5 | 626.6 | 642.4 | 652.2 | 653.5 | 653.5 |
| 22.5° | 1077.8 | 985.5  | 711.8 | 540.2 | 544.8 | 576.9 | 598.5 | 607.0 | 610.9 | 612.9 | 612.2 |
| 25°   | 1106.6 | 996.6  | 673.8 | 506.8 | 519.9 | 548.1 | 563.8 | 571.6 | 574.3 | 576.2 | 577.5 |
| 27.5° | 1126.3 | 1001.8 | 629.3 | 470.1 | 491.1 | 515.3 | 530.4 | 538.2 | 544.1 | 548.1 | 548.1 |
| 30°   | 1140.0 | 998.6  | 582.8 | 442.6 | 466.2 | 486.5 | 504.2 | 514.7 | 523.2 | 527.8 | 528.4 |
| 32.5° | 1153.1 | 994.6  | 535.6 | 415.1 | 441.3 | 462.9 | 483.2 | 499.0 | 510.7 | 516.0 | 517.9 |
| 35°   | 1162.9 | 986.1  | 485.9 | 394.2 | 418.4 | 441.3 | 464.3 | 483.9 | 499.0 | 508.1 | 510.1 |
| 37.5° | 1172.7 | 977.6  | 440.0 | 371.9 | 398.8 | 423.7 | 449.8 | 468.8 | 486.5 | 499.0 | 502.9 |
| 40°   | 1186.5 | 971.7  | 399.4 | 352.3 | 383.7 | 411.2 | 434.8 | 457.0 | 477.3 | 488.5 | 492.4 |
| 42.5° | 1205.5 | 967.8  | 364.7 | 337.9 | 371.9 | 403.4 | 428.2 | 457.0 | 481.9 | 487.2 | 489.8 |
| 45°   | 1231.0 | 967.8  | 336.6 | 326.1 | 366.0 | 403.4 | 434.1 | 465.6 | 485.2 | 483.2 | 485.2 |
| 47.5° | 1259.2 | 967.8  | 314.3 | 315.6 | 363.4 | 408.6 | 443.3 | 481.3 | 502.2 | 508.1 | 512.1 |
| 50°   | 1298.5 | 967.8  | 296.6 | 306.4 | 358.8 | 417.1 | 474.1 | 512.7 | 525.1 | 527.1 | 528.4 |
| 52.5° | 1341.7 | 976.3  | 283.5 | 297.3 | 357.5 | 444.6 | 498.3 | 511.4 | 510.7 | 504.8 | 504.2 |
| 55°   | 1393.4 | 991.4  | 271.7 | 286.8 | 362.1 | 449.8 | 482.6 | 486.5 | 474.1 | 462.9 | 460.3 |
| 57.5° | 1445.8 | 1010.4 | 260.0 | 273.7 | 343.8 | 417.8 | 457.0 | 453.8 | 453.1 | 447.2 | 446.6 |
| 60°   | 1503.4 | 1032.0 | 246.9 | 252.1 | 307.1 | 387.0 | 422.3 | 447.9 | 455.1 | 449.2 | 447.9 |
| 62.5° | 1546.0 | 1056.8 | 233.1 | 228.5 | 275.7 | 359.5 | 409.9 | 442.0 | 455.7 | 455.7 | 455.1 |
| 65°   | 1566.3 | 1069.3 | 220.0 | 206.9 | 248.8 | 330.7 | 398.1 | 425.6 | 442.6 | 447.2 | 445.9 |
| 67.5° | 1542.7 | 1052.3 | 210.2 | 188.6 | 223.3 | 301.2 | 379.1 | 404.7 | 426.9 | 434.1 | 433.5 |
| 70°   | 1502.1 | 1038.5 | 202.3 | 169.6 | 201.0 | 269.8 | 360.1 | 387.6 | 409.9 | 422.3 | 421.0 |
| 72.5° | 1413.7 | 990.1  | 182.7 | 153.2 | 176.1 | 244.9 | 337.2 | 369.3 | 390.3 | 404.0 | 403.4 |
| 75°   | 1213.3 | 870.2  | 152.6 | 138.2 | 149.3 | 220.7 | 312.3 | 348.4 | 363.4 | 376.5 | 375.9 |
| 77.5° | 894.5  | 654.1  | 119.8 | 116.6 | 125.1 | 195.1 | 280.9 | 316.3 | 328.1 | 337.9 | 335.9 |
| 80°   | 471.5  | 383.1  | 94.3  | 95.6  | 103.5 | 168.3 | 249.5 | 276.3 | 286.1 | 291.4 | 287.5 |
| 82.5° | 205.6  | 165.7  | 70.1  | 76.0  | 81.2  | 134.9 | 205.6 | 229.2 | 235.7 | 231.8 | 220.7 |
| 85°   | 65.5   | 45.2   | 41.9  | 49.8  | 55.0  | 89.7  | 159.8 | 178.1 | 189.2 | 177.5 | 174.8 |
| 87.5° | 16.4   | 15.1   | 17.7  | 25.5  | 28.8  | 49.8  | 108.7 | 112.6 | 127.7 | 39.3  | 36.7  |
| 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)