

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: P1208107

Luminaire Tested: UPW-SA1-040-740-U-T2

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1208107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA1-040-740-U-T2  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5989 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
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



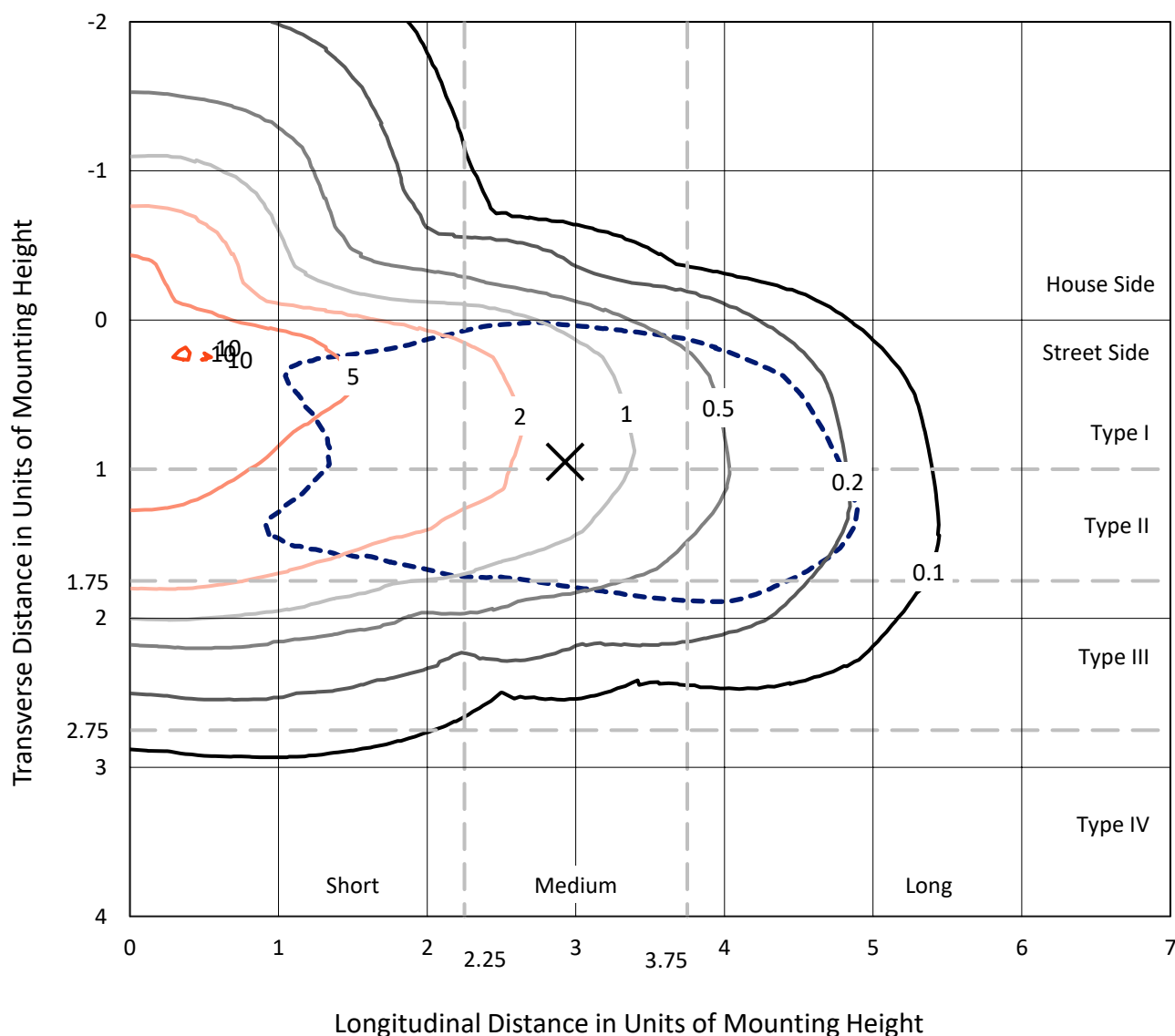
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

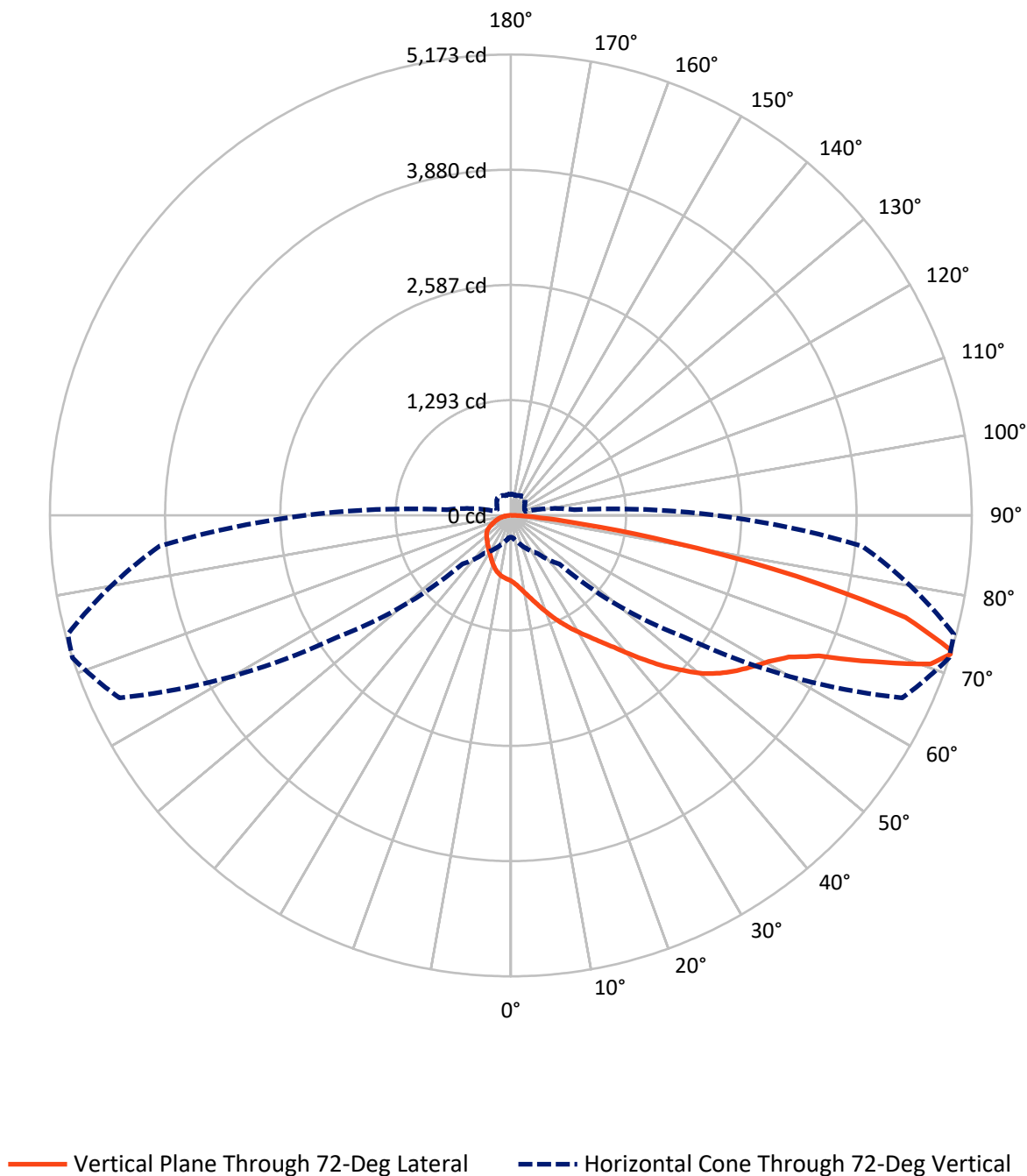


Based on 10 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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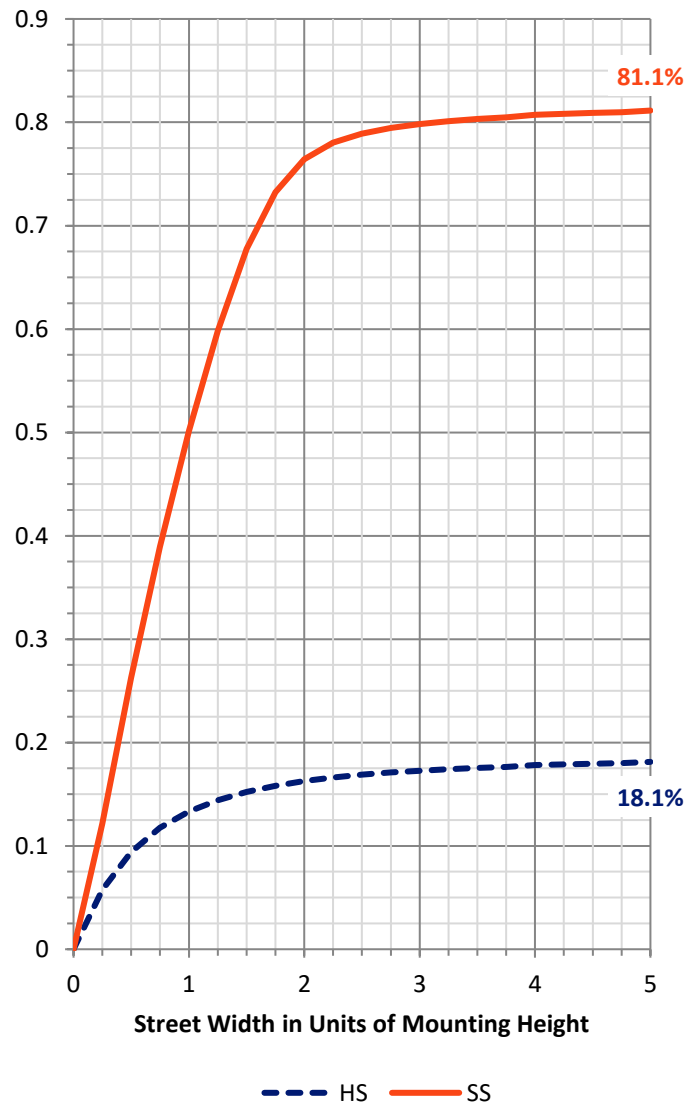
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1111.0   | 0.0    | 1111.0 |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 4878.0   | 0.0    | 4878.0 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 5989.0   | 0.0    | 5989.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.8   | 1.2       |
| 10°-20°   | 238.6  | 4.0       |
| 20°-30°   | 418.1  | 7.0       |
| 30°-40°   | 619.9  | 10.4      |
| 40°-50°   | 906.6  | 15.1      |
| 50°-60°   | 1247.5 | 20.8      |
| 60°-70°   | 1388.8 | 23.2      |
| 70°-80°   | 941.1  | 15.7      |
| 80°-90°   | 154.7  | 2.6       |
| 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°    | 5989.0 | 100.0     |
| 0°-180°   | 5989.0 | 100.0     |

**Coefficient of Utilization**



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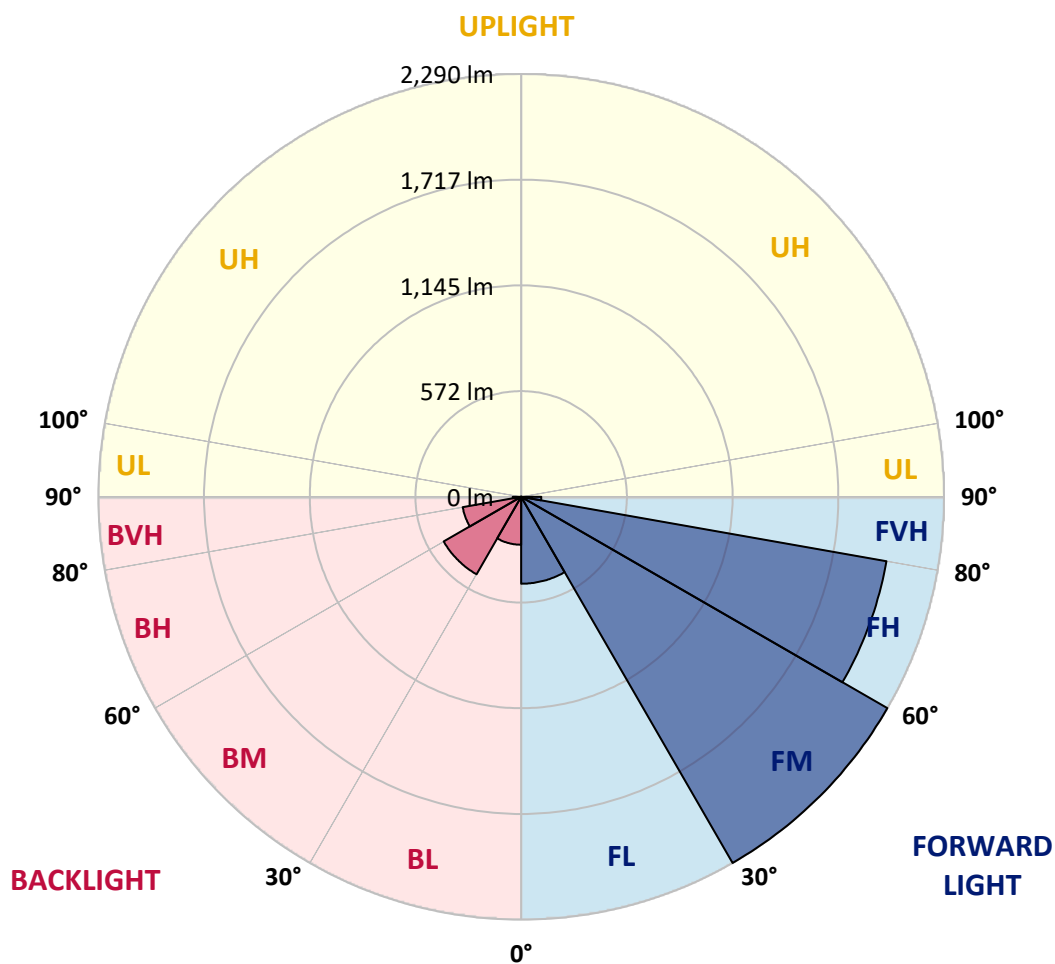
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 470.8  | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 2289.7 | 38.2      |                         |      |         |
| FH   | (60°-80°)   | 2008.5 | 33.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 109.1  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 259.7  | 4.3       | B1/500                  |      |         |
| BM   | (30°-60°)   | 484.3  | 8.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 321.4  | 5.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 45.6   | 0.8       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 72°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  | 736.8  |
| 2.5°  | 813.9  | 812.7  | 808.4  | 808.4  | 800.1  | 793.1  | 779.9  | 771.0  | 760.5  | 756.8  | 744.4  |
| 5°    | 892.7  | 893.1  | 887.8  | 884.0  | 871.9  | 857.0  | 834.5  | 814.1  | 793.7  | 785.5  | 760.1  |
| 7.5°  | 958.9  | 958.1  | 956.6  | 953.5  | 942.2  | 926.9  | 896.6  | 866.3  | 836.2  | 823.8  | 780.1  |
| 10°   | 1001.4 | 1003.2 | 1004.5 | 1005.9 | 1001.2 | 990.2  | 961.6  | 924.7  | 885.3  | 868.4  | 804.0  |
| 12.5° | 1022.8 | 1026.1 | 1031.9 | 1041.8 | 1049.6 | 1048.4 | 1027.6 | 988.4  | 941.6  | 920.3  | 833.9  |
| 15°   | 1035.4 | 1039.7 | 1048.8 | 1066.5 | 1088.6 | 1101.2 | 1095.6 | 1060.1 | 1008.0 | 981.8  | 870.4  |
| 17.5° | 1043.2 | 1046.7 | 1060.8 | 1084.5 | 1117.3 | 1150.7 | 1165.3 | 1135.6 | 1083.0 | 1053.1 | 912.3  |
| 20°   | 1048.6 | 1051.3 | 1068.8 | 1096.6 | 1139.1 | 1192.3 | 1233.2 | 1225.7 | 1165.7 | 1127.0 | 956.0  |
| 22.5° | 1060.6 | 1062.8 | 1079.5 | 1107.6 | 1154.6 | 1223.3 | 1298.5 | 1309.7 | 1253.0 | 1209.0 | 1002.8 |
| 25°   | 1094.0 | 1094.0 | 1108.0 | 1127.6 | 1171.7 | 1250.1 | 1353.8 | 1403.1 | 1342.0 | 1290.9 | 1046.1 |
| 27.5° | 1157.7 | 1157.1 | 1162.2 | 1169.0 | 1202.4 | 1277.3 | 1403.1 | 1485.6 | 1434.4 | 1378.5 | 1088.2 |
| 30°   | 1233.2 | 1237.3 | 1237.9 | 1234.6 | 1250.3 | 1311.3 | 1448.7 | 1572.6 | 1527.4 | 1467.2 | 1131.3 |
| 32.5° | 1330.3 | 1333.0 | 1329.9 | 1318.9 | 1316.7 | 1359.6 | 1493.4 | 1663.7 | 1628.1 | 1559.8 | 1170.7 |
| 35°   | 1453.6 | 1448.4 | 1438.8 | 1416.5 | 1395.2 | 1424.1 | 1544.5 | 1754.9 | 1741.1 | 1671.8 | 1224.9 |
| 37.5° | 1585.8 | 1586.0 | 1574.0 | 1523.5 | 1494.2 | 1506.6 | 1615.1 | 1858.2 | 1877.8 | 1805.0 | 1294.4 |
| 40°   | 1691.8 | 1697.3 | 1704.8 | 1638.4 | 1600.4 | 1617.5 | 1704.8 | 1978.0 | 2039.5 | 1963.0 | 1384.9 |
| 42.5° | 1765.8 | 1772.2 | 1793.2 | 1751.6 | 1712.2 | 1744.0 | 1810.4 | 2105.9 | 2220.9 | 2145.2 | 1490.9 |
| 45°   | 1844.2 | 1847.7 | 1862.5 | 1844.6 | 1819.4 | 1891.0 | 1929.3 | 2238.2 | 2412.9 | 2339.5 | 1609.5 |
| 47.5° | 1926.7 | 1930.4 | 1945.6 | 1933.7 | 1920.5 | 2028.3 | 2053.5 | 2363.0 | 2596.9 | 2552.9 | 1736.1 |
| 50°   | 2028.5 | 2031.0 | 2045.4 | 2023.8 | 2027.9 | 2131.8 | 2164.4 | 2477.5 | 2789.7 | 2744.7 | 1863.1 |
| 52.5° | 2167.5 | 2168.1 | 2188.1 | 2168.5 | 2149.2 | 2207.7 | 2259.9 | 2585.3 | 2940.8 | 2919.6 | 1990.2 |
| 55°   | 2276.4 | 2283.0 | 2348.6 | 2344.4 | 2333.3 | 2276.6 | 2339.7 | 2688.0 | 3075.7 | 3085.8 | 2125.0 |
| 57.5° | 2206.9 | 2232.7 | 2365.5 | 2459.1 | 2550.3 | 2448.0 | 2447.6 | 2803.7 | 3201.1 | 3248.9 | 2273.3 |
| 60°   | 1932.8 | 1967.9 | 2163.6 | 2371.3 | 2656.5 | 2746.2 | 2671.5 | 2944.9 | 3327.7 | 3410.6 | 2459.1 |
| 62.5° | 1380.4 | 1438.1 | 1703.3 | 2034.9 | 2510.9 | 2943.7 | 3127.2 | 3169.1 | 3499.9 | 3597.8 | 2700.6 |
| 65°   | 697.8  | 741.5  | 963.8  | 1363.3 | 2006.1 | 2814.6 | 3622.6 | 3659.9 | 3799.1 | 3886.1 | 3072.4 |
| 67.5° | 424.0  | 440.5  | 548.9  | 758.2  | 1229.9 | 2192.5 | 3784.2 | 4477.9 | 4378.1 | 4424.3 | 3602.6 |
| 70°   | 312.4  | 324.6  | 392.2  | 503.6  | 707.3  | 1286.6 | 3288.1 | 5061.7 | 4996.2 | 4991.0 | 3994.4 |
| 72°   | 243.3  | 252.2  | 312.0  | 406.9  | 517.2  | 771.9  | 2383.2 | 4846.2 | 5173.1 | 5147.1 | 3958.5 |
| 72.5° | 230.8  | 238.6  | 293.0  | 382.9  | 488.7  | 699.7  | 2142.8 | 4700.9 | 5160.3 | 5148.5 | 3912.1 |
| 75°   | 181.7  | 187.2  | 216.9  | 296.1  | 382.5  | 397.0  | 1174.2 | 3643.0 | 4577.7 | 4768.1 | 3518.6 |
| 77.5° | 150.3  | 151.2  | 166.8  | 215.5  | 298.2  | 280.7  | 576.8  | 2527.6 | 3278.0 | 3487.3 | 2492.5 |
| 80°   | 122.5  | 123.5  | 130.9  | 151.2  | 225.6  | 207.7  | 273.9  | 1453.4 | 1835.3 | 1837.6 | 1185.3 |
| 82.5° | 97.5   | 97.7   | 106.0  | 110.5  | 162.1  | 148.5  | 156.9  | 682.4  | 802.0  | 771.4  | 426.0  |
| 85°   | 68.7   | 67.2   | 103.5  | 90.7   | 106.0  | 95.3   | 86.6   | 270.1  | 331.6  | 317.2  | 133.4  |
| 87.5° | 22.9   | 23.7   | 46.0   | 58.8   | 61.9   | 54.0   | 38.6   | 103.5  | 125.2  | 124.1  | 42.3   |
| 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°    | 736.8  | 736.8 | 736.8 | 736.8 | 736.8 | 736.8 | 736.8 | 736.8 | 736.8 | 736.8 | 736.8 |
| 2.5°  | 740.5  | 733.9 | 724.2 | 713.5 | 705.0 | 696.4 | 690.0 | 686.7 | 683.0 | 679.9 | 683.6 |
| 5°    | 748.4  | 736.0 | 715.4 | 695.1 | 680.3 | 667.1 | 657.6 | 652.7 | 648.1 | 645.0 | 645.5 |
| 7.5°  | 761.1  | 741.1 | 706.5 | 677.0 | 656.4 | 642.2 | 632.5 | 629.2 | 626.3 | 625.4 | 626.5 |
| 10°   | 774.7  | 745.3 | 694.7 | 655.6 | 632.0 | 620.3 | 616.0 | 618.2 | 620.3 | 622.1 | 624.2 |
| 12.5° | 790.2  | 749.0 | 677.6 | 630.4 | 610.4 | 605.9 | 610.2 | 620.1 | 627.3 | 631.6 | 634.3 |
| 15°   | 810.4  | 752.3 | 657.8 | 605.2 | 591.8 | 597.0 | 611.6 | 628.7 | 641.3 | 649.4 | 650.6 |
| 17.5° | 829.0  | 752.1 | 632.5 | 579.9 | 576.8 | 591.8 | 613.9 | 638.0 | 654.9 | 666.3 | 668.5 |
| 20°   | 848.2  | 746.5 | 603.0 | 555.1 | 561.5 | 586.3 | 614.9 | 644.0 | 664.4 | 677.6 | 680.7 |
| 22.5° | 866.1  | 736.8 | 570.6 | 532.7 | 548.7 | 578.8 | 611.0 | 640.5 | 660.9 | 671.6 | 674.9 |
| 25°   | 878.3  | 719.9 | 537.8 | 513.7 | 537.4 | 569.8 | 598.2 | 621.9 | 637.2 | 642.6 | 643.4 |
| 27.5° | 884.5  | 697.8 | 506.9 | 497.2 | 525.6 | 554.9 | 574.5 | 586.3 | 590.6 | 590.2 | 589.4 |
| 30°   | 885.3  | 668.8 | 480.3 | 483.8 | 512.0 | 533.1 | 542.3 | 540.1 | 534.5 | 525.0 | 525.8 |
| 32.5° | 882.6  | 636.0 | 458.0 | 471.0 | 494.7 | 506.5 | 506.9 | 495.9 | 481.1 | 466.0 | 461.9 |
| 35°   | 883.4  | 603.8 | 438.4 | 456.6 | 473.7 | 478.8 | 474.1 | 458.0 | 437.8 | 418.4 | 414.3 |
| 37.5° | 892.5  | 575.7 | 421.5 | 439.9 | 450.4 | 451.6 | 444.8 | 427.9 | 413.0 | 394.1 | 392.4 |
| 40°   | 914.1  | 555.7 | 405.4 | 421.1 | 427.1 | 427.7 | 418.0 | 406.0 | 407.3 | 397.2 | 397.0 |
| 42.5° | 953.1  | 547.1 | 391.2 | 401.5 | 405.2 | 406.4 | 399.0 | 391.4 | 402.1 | 395.5 | 393.3 |
| 45°   | 1003.4 | 549.1 | 379.2 | 382.3 | 389.1 | 394.9 | 390.4 | 381.1 | 385.2 | 356.5 | 347.1 |
| 47.5° | 1061.6 | 562.3 | 369.7 | 365.8 | 377.6 | 388.5 | 381.5 | 367.5 | 352.8 | 324.4 | 319.0 |
| 50°   | 1129.6 | 582.8 | 361.1 | 349.5 | 365.0 | 379.8 | 372.8 | 352.8 | 330.8 | 317.0 | 315.1 |
| 52.5° | 1200.6 | 607.7 | 352.4 | 331.6 | 349.1 | 373.2 | 369.7 | 349.5 | 322.3 | 308.7 | 306.2 |
| 55°   | 1281.0 | 632.9 | 341.5 | 310.8 | 332.0 | 370.2 | 368.3 | 337.6 | 315.9 | 308.3 | 306.4 |
| 57.5° | 1381.0 | 661.5 | 327.1 | 289.1 | 315.9 | 359.0 | 353.2 | 330.4 | 309.3 | 303.5 | 302.9 |
| 60°   | 1511.3 | 703.8 | 306.2 | 266.0 | 296.3 | 341.9 | 340.7 | 319.8 | 298.8 | 294.7 | 293.9 |
| 62.5° | 1706.8 | 773.7 | 277.6 | 242.9 | 274.5 | 312.8 | 324.2 | 305.6 | 287.7 | 287.5 | 287.9 |
| 65°   | 2010.0 | 878.9 | 246.4 | 222.7 | 252.4 | 288.3 | 305.0 | 291.0 | 276.3 | 280.5 | 281.1 |
| 67.5° | 2361.4 | 966.1 | 215.9 | 202.9 | 229.9 | 265.0 | 287.7 | 276.3 | 261.3 | 272.0 | 272.2 |
| 70°   | 2478.3 | 888.2 | 189.1 | 183.3 | 206.6 | 242.5 | 268.9 | 260.2 | 245.0 | 255.7 | 254.7 |
| 72°   | 2306.3 | 717.0 | 171.8 | 168.5 | 189.1 | 223.9 | 252.2 | 245.2 | 230.1 | 237.4 | 234.7 |
| 72.5° | 2252.1 | 683.6 | 167.4 | 164.8 | 184.4 | 219.2 | 247.9 | 241.5 | 226.4 | 232.6 | 230.1 |
| 75°   | 2008.9 | 593.7 | 143.9 | 144.6 | 160.8 | 196.1 | 223.5 | 221.5 | 206.0 | 206.6 | 205.8 |
| 77.5° | 1457.1 | 435.3 | 121.3 | 125.4 | 136.9 | 172.4 | 199.0 | 197.8 | 180.8 | 177.8 | 177.1 |
| 80°   | 676.2  | 222.1 | 98.8  | 100.6 | 112.6 | 144.1 | 169.7 | 168.1 | 154.5 | 150.5 | 148.3 |
| 82.5° | 231.6  | 105.6 | 74.2  | 75.5  | 87.2  | 116.1 | 147.2 | 146.2 | 134.9 | 127.2 | 122.5 |
| 85°   | 82.7   | 52.6  | 52.0  | 50.7  | 62.3  | 91.4  | 128.3 | 122.7 | 106.0 | 90.3  | 89.9  |
| 87.5° | 26.8   | 22.5  | 26.8  | 26.6  | 36.3  | 61.9  | 93.2  | 79.4  | 76.9  | 63.9  | 62.7  |
| 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)