

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: P1208991

Luminaire Tested: UPW-SA2-090-727-U-SL4

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2308-136-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/19/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-727-U-SL4
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9733 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

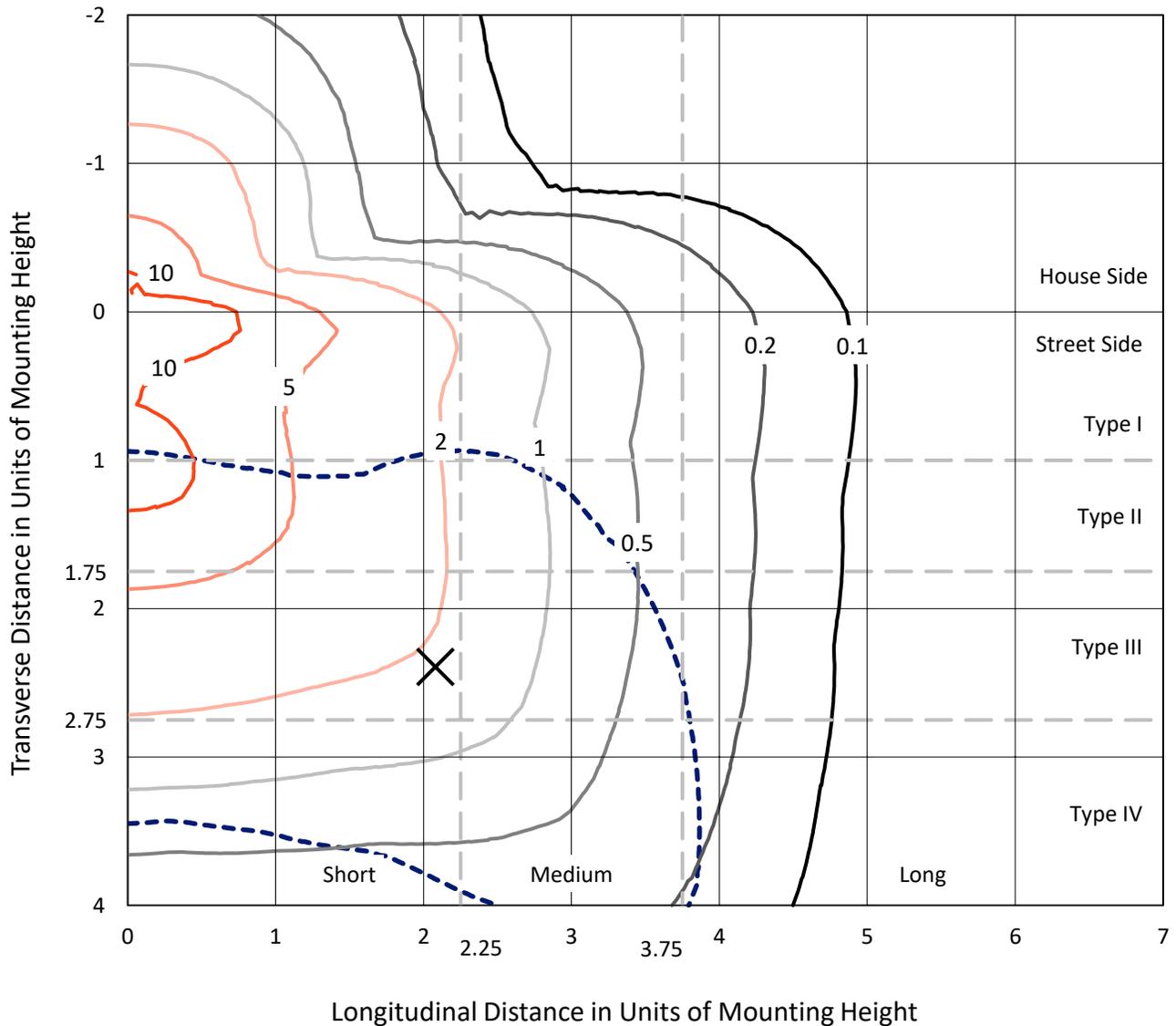


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

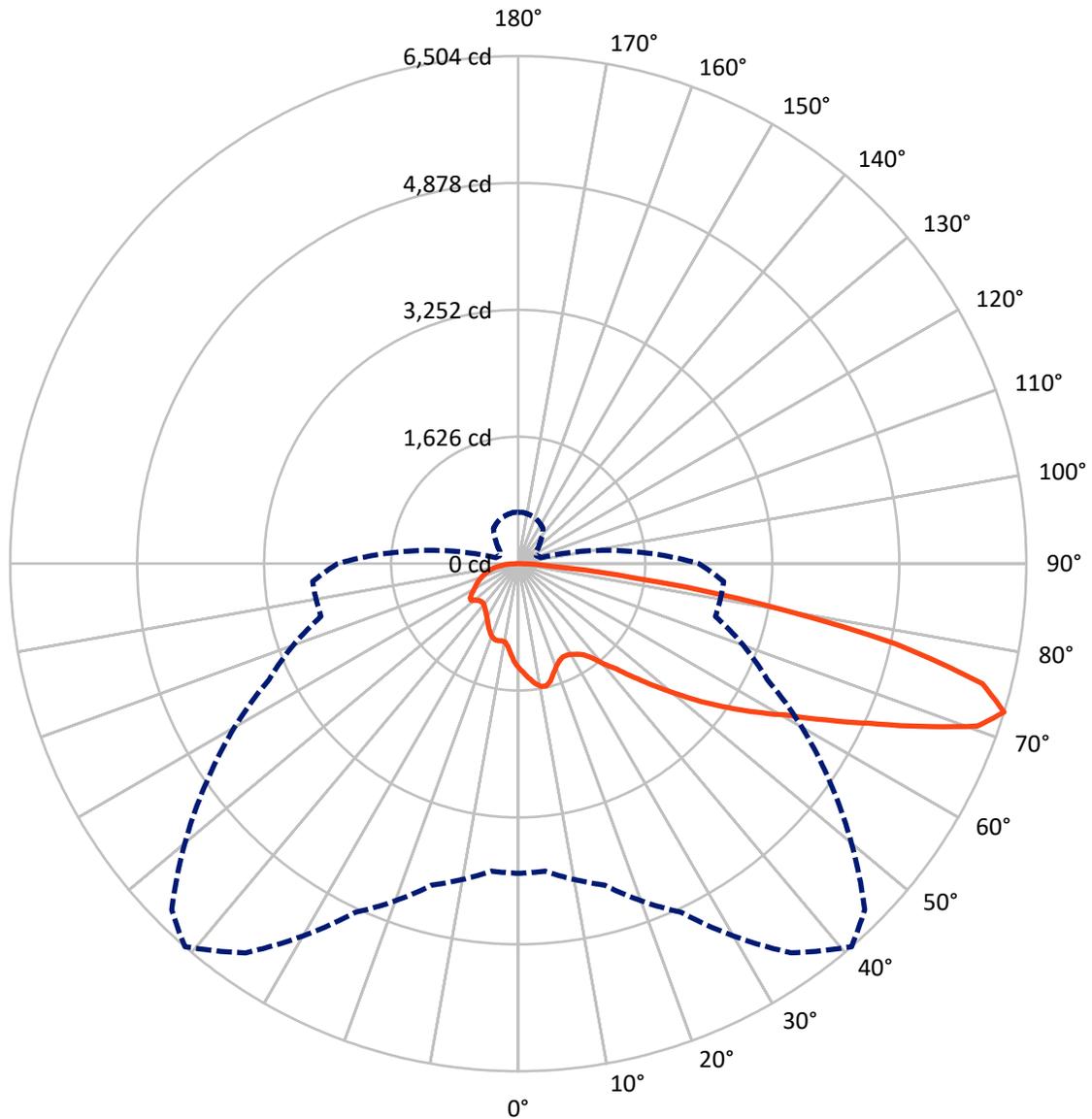


Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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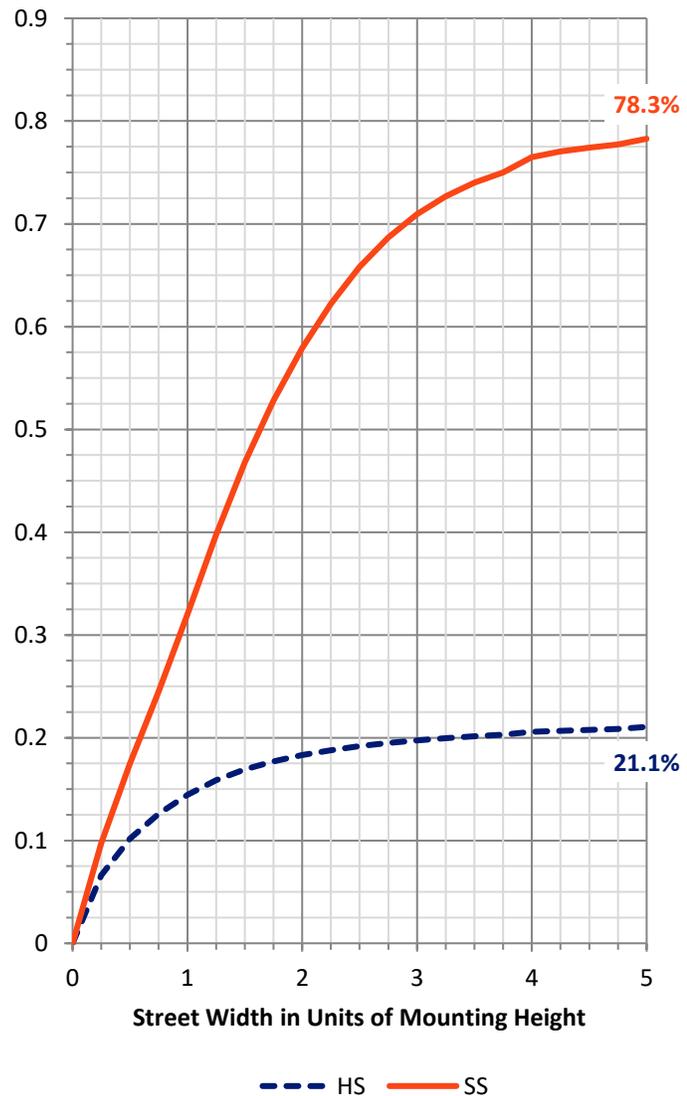
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2106.1 | 0.0 | 2106.1 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 7626.9 | 0.0 | 7626.9 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 9733.0 | 0.0 | 9733.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.6 | 1.3 |
| 10°-20° | 384.4 | 3.9 |
| 20°-30° | 590.8 | 6.1 |
| 30°-40° | 812.2 | 8.3 |
| 40°-50° | 1237.6 | 12.7 |
| 50°-60° | 1827.6 | 18.8 |
| 60°-70° | 2400.1 | 24.7 |
| 70°-80° | 2056.4 | 21.1 |
| 80°-90° | 296.3 | 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° | 9733.0 | 100.0 |
| 0°-180° | 9733.0 | 100.0 |



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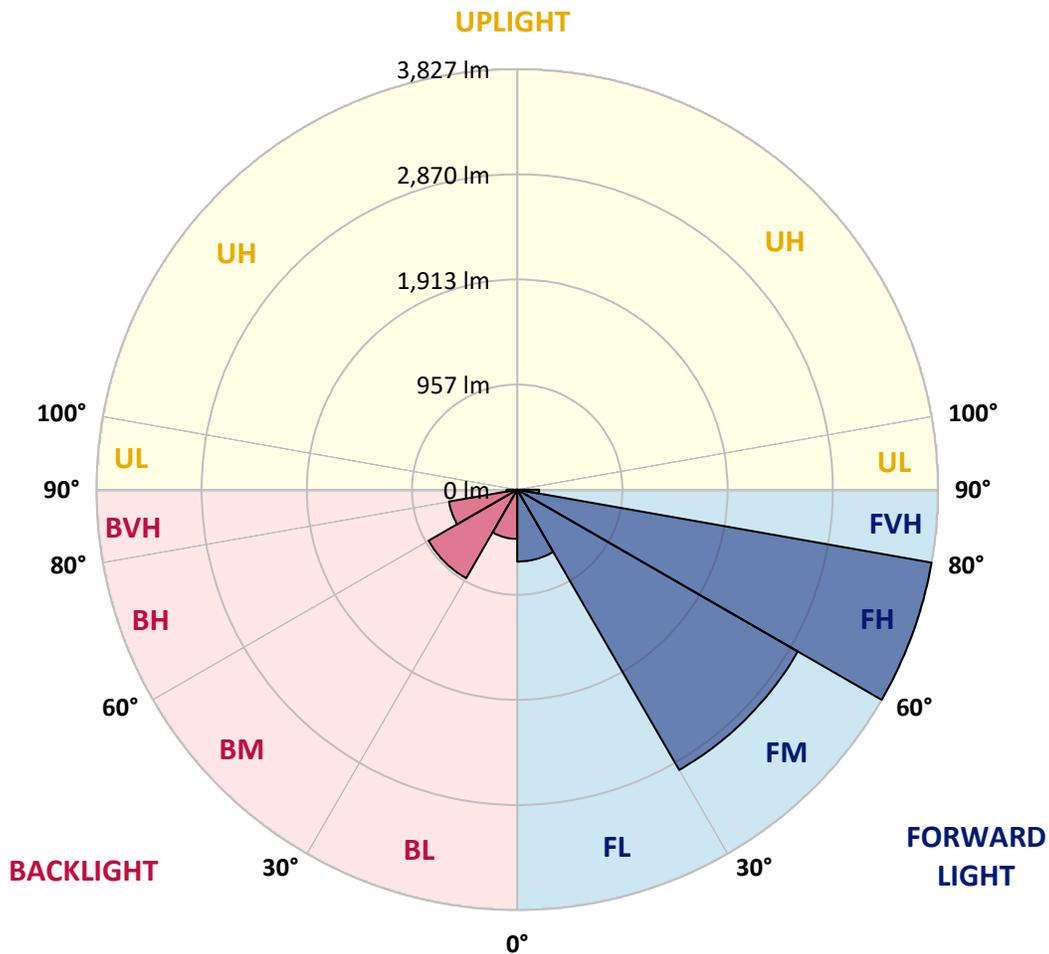
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 654.6 | 6.7 | | | |
| FM | (30°-60°) | 2946.5 | 30.3 | | | |
| FH | (60°-80°) | 3826.8 | 39.3 | | | G2/5000 |
| FVH | (80°-90°) | 199.0 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 448.2 | 4.6 | B1/500 | | |
| BM | (30°-60°) | 930.8 | 9.6 | B1/1000 | | |
| BH | (60°-80°) | 629.8 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 97.3 | 1.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 41° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 |
| 2.5° | 1424.5 | 1420.2 | 1420.2 | 1417.0 | 1411.6 | 1404.1 | 1403.1 | 1393.4 | 1383.8 | 1369.9 | 1356.0 |
| 5° | 1506.9 | 1500.4 | 1498.3 | 1494.0 | 1488.7 | 1478.0 | 1479.0 | 1461.9 | 1441.6 | 1414.8 | 1387.0 |
| 7.5° | 1565.7 | 1561.5 | 1560.4 | 1561.5 | 1554.0 | 1548.6 | 1548.6 | 1528.3 | 1507.9 | 1479.0 | 1436.2 |
| 10° | 1586.1 | 1580.7 | 1585.0 | 1594.6 | 1602.1 | 1601.0 | 1606.4 | 1598.9 | 1583.9 | 1559.3 | 1499.4 |
| 12.5° | 1549.7 | 1549.7 | 1551.8 | 1564.7 | 1589.3 | 1608.5 | 1625.7 | 1656.7 | 1670.6 | 1649.2 | 1574.3 |
| 15° | 1494.0 | 1490.8 | 1487.6 | 1493.0 | 1522.9 | 1555.0 | 1591.4 | 1674.9 | 1735.9 | 1734.8 | 1653.5 |
| 17.5° | 1460.8 | 1458.7 | 1436.2 | 1414.8 | 1430.9 | 1468.3 | 1514.4 | 1648.1 | 1777.6 | 1813.0 | 1732.7 |
| 20° | 1441.6 | 1437.3 | 1410.5 | 1367.7 | 1361.3 | 1399.8 | 1435.2 | 1593.6 | 1784.1 | 1887.9 | 1807.6 |
| 22.5° | 1425.5 | 1423.4 | 1389.1 | 1332.4 | 1316.4 | 1348.5 | 1384.9 | 1527.2 | 1760.5 | 1937.1 | 1874.0 |
| 25° | 1433.0 | 1428.7 | 1385.9 | 1318.5 | 1299.2 | 1326.0 | 1358.1 | 1474.8 | 1718.8 | 1964.9 | 1927.5 |
| 27.5° | 1469.4 | 1469.4 | 1412.7 | 1332.4 | 1307.8 | 1326.0 | 1350.6 | 1445.9 | 1673.8 | 1972.4 | 1976.7 |
| 30° | 1552.9 | 1549.7 | 1478.0 | 1380.6 | 1341.0 | 1348.5 | 1365.6 | 1436.2 | 1629.9 | 1958.5 | 2008.8 |
| 32.5° | 1699.5 | 1688.8 | 1600.0 | 1467.3 | 1390.2 | 1382.7 | 1385.9 | 1429.8 | 1585.0 | 1933.9 | 2039.8 |
| 35° | 1966.0 | 1937.1 | 1801.2 | 1620.3 | 1478.0 | 1432.0 | 1419.1 | 1436.2 | 1558.2 | 1916.8 | 2068.7 |
| 37.5° | 2321.3 | 2280.6 | 2112.6 | 1856.8 | 1629.9 | 1531.5 | 1487.6 | 1467.3 | 1554.0 | 1896.4 | 2096.6 |
| 40° | 2659.5 | 2634.9 | 2435.8 | 2137.2 | 1826.9 | 1688.8 | 1617.1 | 1514.4 | 1559.3 | 1883.6 | 2135.1 |
| 42.5° | 3090.8 | 3051.2 | 2820.0 | 2431.5 | 2043.0 | 1844.0 | 1740.2 | 1577.5 | 1593.6 | 1892.1 | 2179.0 |
| 45° | 3555.3 | 3547.8 | 3259.9 | 2793.3 | 2312.7 | 2074.1 | 1942.4 | 1696.3 | 1659.9 | 1926.4 | 2244.3 |
| 47.5° | 4057.2 | 4023.0 | 3721.2 | 3213.9 | 2618.8 | 2332.0 | 2169.3 | 1833.3 | 1755.2 | 1984.2 | 2330.9 |
| 50° | 4484.2 | 4459.6 | 4149.2 | 3602.4 | 2952.7 | 2614.5 | 2425.1 | 1999.2 | 1874.0 | 2062.3 | 2421.9 |
| 52.5° | 4712.2 | 4694.0 | 4503.5 | 4011.2 | 3295.2 | 2934.5 | 2661.6 | 2172.5 | 2022.7 | 2159.7 | 2521.4 |
| 55° | 4657.6 | 4646.9 | 4645.8 | 4319.4 | 3668.7 | 3256.7 | 2931.3 | 2357.7 | 2194.0 | 2276.4 | 2639.2 |
| 57.5° | 4642.6 | 4624.4 | 4634.1 | 4532.4 | 4024.0 | 3589.5 | 3231.0 | 2587.8 | 2408.0 | 2416.6 | 2762.2 |
| 60° | 4657.6 | 4646.9 | 4701.5 | 4664.0 | 4357.9 | 3938.4 | 3579.9 | 2867.1 | 2631.7 | 2560.0 | 2872.5 |
| 62.5° | 4796.7 | 4771.0 | 4813.8 | 4893.0 | 4721.8 | 4411.4 | 4020.8 | 3200.0 | 2880.0 | 2668.1 | 2958.1 |
| 65° | 5009.7 | 4961.5 | 4975.5 | 5175.6 | 5151.0 | 4927.3 | 4544.2 | 3633.4 | 3113.3 | 2754.7 | 2997.7 |
| 67.5° | 5070.7 | 5054.6 | 5091.0 | 5346.8 | 5602.6 | 5564.1 | 5207.7 | 4111.8 | 3341.2 | 2804.0 | 2952.7 |
| 70° | 4819.2 | 4798.9 | 4961.5 | 5356.4 | 6046.7 | 6235.1 | 5904.4 | 4573.0 | 3536.0 | 2785.8 | 2850.0 |
| 72.5° | 3967.3 | 3954.5 | 4263.8 | 4929.4 | 6087.4 | 6503.7 | 6272.6 | 4866.3 | 3520.0 | 2613.5 | 2641.3 |
| 75° | 2566.4 | 2523.6 | 3020.2 | 3876.3 | 5462.4 | 6136.6 | 5972.9 | 4497.1 | 3083.3 | 2323.4 | 2275.3 |
| 77.5° | 907.5 | 1019.9 | 1304.6 | 2305.3 | 4150.3 | 4939.1 | 4665.1 | 3373.3 | 2277.4 | 1702.7 | 1603.2 |
| 80° | 316.8 | 332.8 | 416.3 | 863.7 | 2245.3 | 3163.6 | 2943.1 | 1955.3 | 1216.8 | 887.2 | 850.8 |
| 82.5° | 186.2 | 194.8 | 218.3 | 316.8 | 826.2 | 1502.6 | 1254.3 | 820.9 | 445.2 | 381.0 | 333.9 |
| 85° | 63.1 | 67.4 | 113.4 | 162.7 | 293.2 | 434.5 | 390.6 | 210.8 | 172.3 | 154.1 | 99.5 |
| 87.5° | 12.8 | 15.0 | 24.6 | 53.5 | 98.5 | 111.3 | 84.5 | 51.4 | 71.7 | 71.7 | 34.2 |
| 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° | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 | 1337.8 |
| 2.5° | 1346.3 | 1336.7 | 1319.6 | 1303.5 | 1286.4 | 1273.6 | 1257.5 | 1244.7 | 1246.8 | 1239.3 | 1237.2 |
| 5° | 1368.8 | 1348.5 | 1307.8 | 1265.0 | 1221.1 | 1179.4 | 1144.1 | 1115.2 | 1099.1 | 1090.6 | 1089.5 |
| 7.5° | 1405.2 | 1374.2 | 1301.4 | 1223.3 | 1140.9 | 1084.1 | 1046.7 | 1028.5 | 1026.3 | 1024.2 | 1021.0 |
| 10° | 1461.9 | 1412.7 | 1299.2 | 1174.0 | 1070.2 | 1021.0 | 1014.6 | 1027.4 | 1045.6 | 1055.2 | 1055.2 |
| 12.5° | 1521.9 | 1458.7 | 1298.2 | 1123.7 | 1015.6 | 999.6 | 1028.5 | 1064.9 | 1094.8 | 1108.7 | 1106.6 |
| 15° | 1586.1 | 1504.7 | 1282.1 | 1067.0 | 977.1 | 1000.7 | 1051.0 | 1090.6 | 1121.6 | 1134.4 | 1135.5 |
| 17.5° | 1654.6 | 1546.5 | 1255.4 | 1004.9 | 949.3 | 998.5 | 1049.9 | 1084.1 | 1112.0 | 1121.6 | 1119.4 |
| 20° | 1713.4 | 1583.9 | 1217.9 | 941.8 | 924.7 | 978.2 | 1024.2 | 1049.9 | 1065.9 | 1068.1 | 1068.1 |
| 22.5° | 1761.6 | 1610.7 | 1163.3 | 882.9 | 890.4 | 942.9 | 978.2 | 992.1 | 998.5 | 1001.7 | 1000.7 |
| 25° | 1808.7 | 1628.9 | 1101.3 | 828.3 | 849.8 | 895.8 | 921.5 | 934.3 | 938.6 | 941.8 | 943.9 |
| 27.5° | 1840.8 | 1637.4 | 1028.5 | 768.4 | 802.7 | 842.3 | 866.9 | 879.7 | 889.4 | 895.8 | 895.8 |
| 30° | 1863.3 | 1632.1 | 952.5 | 723.5 | 762.0 | 795.2 | 824.1 | 841.2 | 855.1 | 862.6 | 863.7 |
| 32.5° | 1884.7 | 1625.7 | 875.4 | 678.5 | 721.3 | 756.6 | 789.8 | 815.5 | 834.8 | 843.3 | 846.5 |
| 35° | 1900.7 | 1611.8 | 794.1 | 644.3 | 683.9 | 721.3 | 758.8 | 790.9 | 815.5 | 830.5 | 833.7 |
| 37.5° | 1916.8 | 1597.8 | 719.2 | 607.9 | 651.8 | 692.4 | 735.2 | 766.3 | 795.2 | 815.5 | 821.9 |
| 40° | 1939.2 | 1588.2 | 652.8 | 575.8 | 627.1 | 672.1 | 710.6 | 747.0 | 780.2 | 798.4 | 804.8 |
| 42.5° | 1970.3 | 1581.8 | 596.1 | 552.2 | 607.9 | 659.3 | 699.9 | 747.0 | 787.7 | 796.2 | 800.5 |
| 45° | 2012.0 | 1581.8 | 550.1 | 533.0 | 598.3 | 659.3 | 709.6 | 760.9 | 793.0 | 789.8 | 793.0 |
| 47.5° | 2058.0 | 1581.8 | 513.7 | 515.8 | 594.0 | 667.8 | 724.5 | 786.6 | 820.9 | 830.5 | 836.9 |
| 50° | 2122.2 | 1581.8 | 484.8 | 500.9 | 586.5 | 681.7 | 774.8 | 838.0 | 858.3 | 861.5 | 863.7 |
| 52.5° | 2192.9 | 1595.7 | 463.4 | 485.9 | 584.3 | 726.7 | 814.4 | 835.8 | 834.8 | 825.1 | 824.1 |
| 55° | 2277.4 | 1620.3 | 444.1 | 468.8 | 591.8 | 735.2 | 788.8 | 795.2 | 774.8 | 756.6 | 752.4 |
| 57.5° | 2363.0 | 1651.3 | 424.9 | 447.4 | 561.9 | 682.8 | 747.0 | 741.7 | 740.6 | 731.0 | 729.9 |
| 60° | 2457.2 | 1686.7 | 403.5 | 412.0 | 501.9 | 632.5 | 690.3 | 732.0 | 743.8 | 734.2 | 732.0 |
| 62.5° | 2526.8 | 1727.3 | 381.0 | 373.5 | 450.6 | 587.6 | 670.0 | 722.4 | 744.9 | 744.9 | 743.8 |
| 65° | 2560.0 | 1747.7 | 359.6 | 338.2 | 406.7 | 540.5 | 650.7 | 695.6 | 723.5 | 731.0 | 728.8 |
| 67.5° | 2521.4 | 1719.8 | 343.5 | 308.2 | 364.9 | 492.3 | 619.7 | 661.4 | 697.8 | 709.6 | 708.5 |
| 70° | 2455.1 | 1697.4 | 330.7 | 277.2 | 328.6 | 440.9 | 588.6 | 633.6 | 670.0 | 690.3 | 688.2 |
| 72.5° | 2310.6 | 1618.2 | 298.6 | 250.4 | 287.9 | 400.3 | 551.2 | 603.6 | 637.9 | 660.3 | 659.3 |
| 75° | 1983.1 | 1422.3 | 249.4 | 225.8 | 244.0 | 360.7 | 510.5 | 569.4 | 594.0 | 615.4 | 614.3 |
| 77.5° | 1461.9 | 1069.1 | 195.9 | 190.5 | 204.4 | 318.9 | 459.1 | 516.9 | 536.2 | 552.2 | 549.0 |
| 80° | 770.6 | 626.1 | 154.1 | 156.3 | 169.1 | 275.0 | 407.8 | 451.6 | 467.7 | 476.2 | 469.8 |
| 82.5° | 336.0 | 270.8 | 114.5 | 124.1 | 132.7 | 220.5 | 336.0 | 374.6 | 385.3 | 378.9 | 360.7 |
| 85° | 107.0 | 73.8 | 68.5 | 81.3 | 89.9 | 146.6 | 261.1 | 291.1 | 309.3 | 290.0 | 285.7 |
| 87.5° | 26.8 | 24.6 | 28.9 | 41.7 | 47.1 | 81.3 | 177.7 | 184.1 | 208.7 | 64.2 | 59.9 |
| 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)