

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: P1209275

Luminaire Tested: UPW-SA2-110-730-U-T4FT-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/20/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-730-U-T4FT-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THF OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9546 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

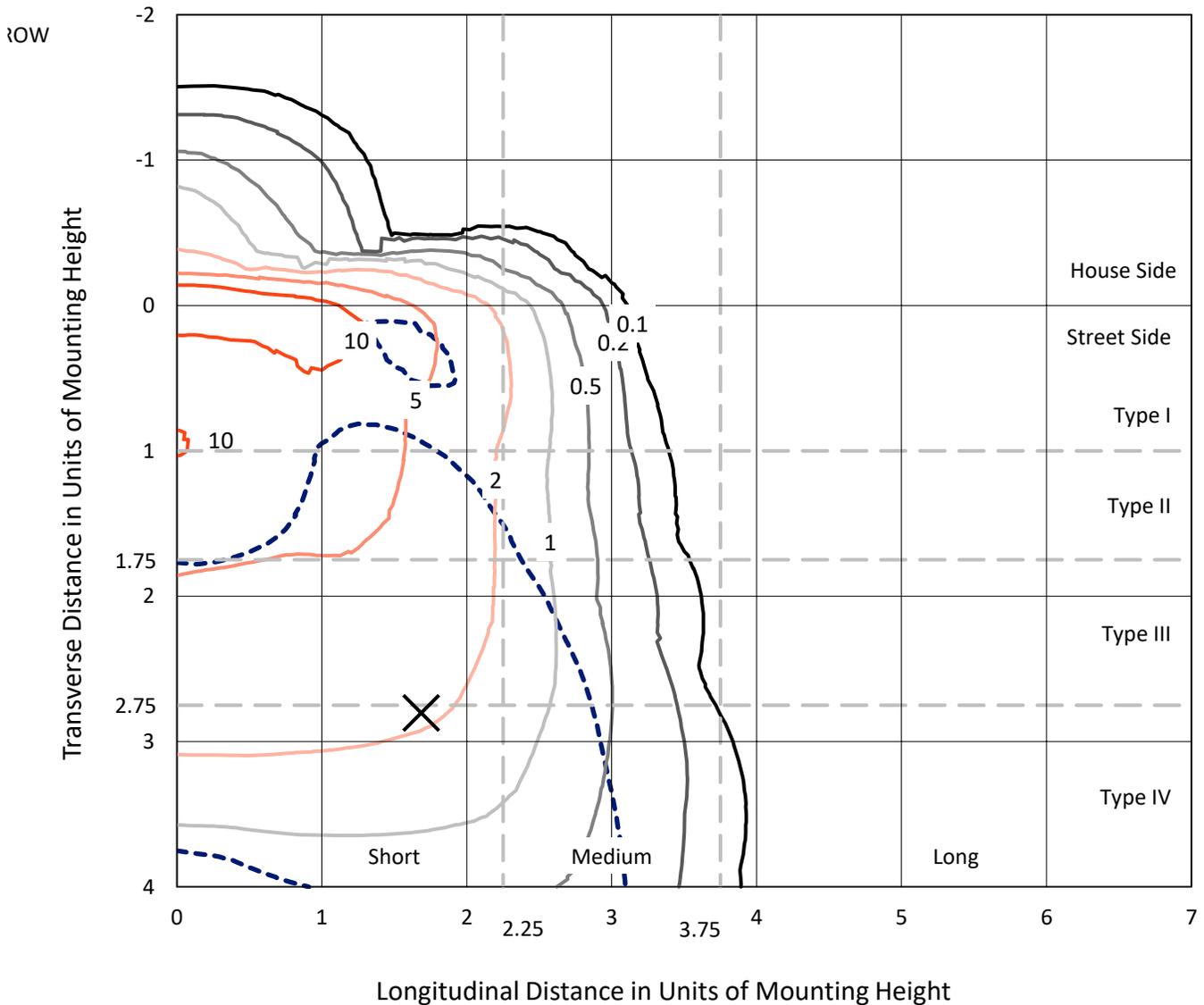
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

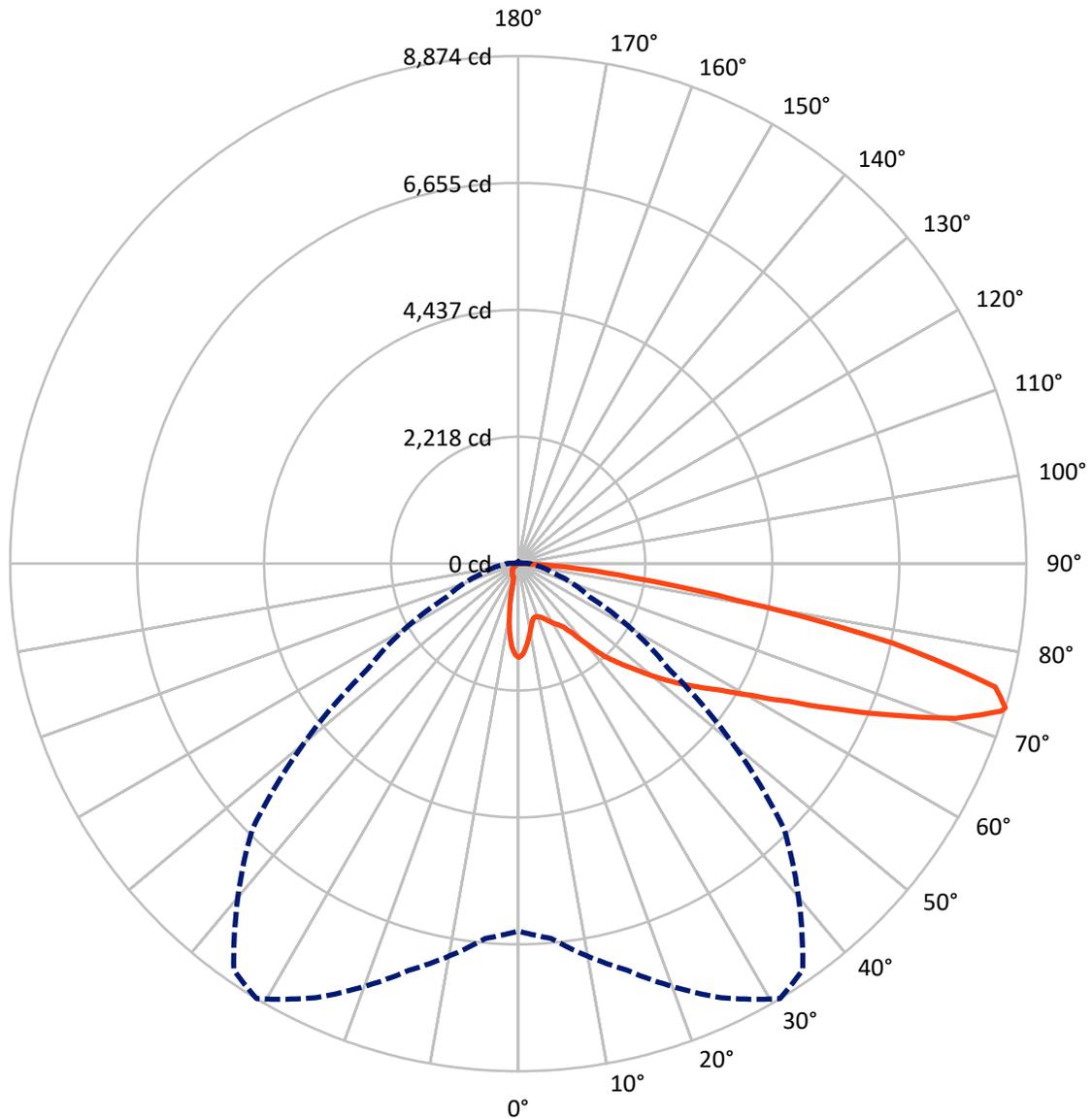
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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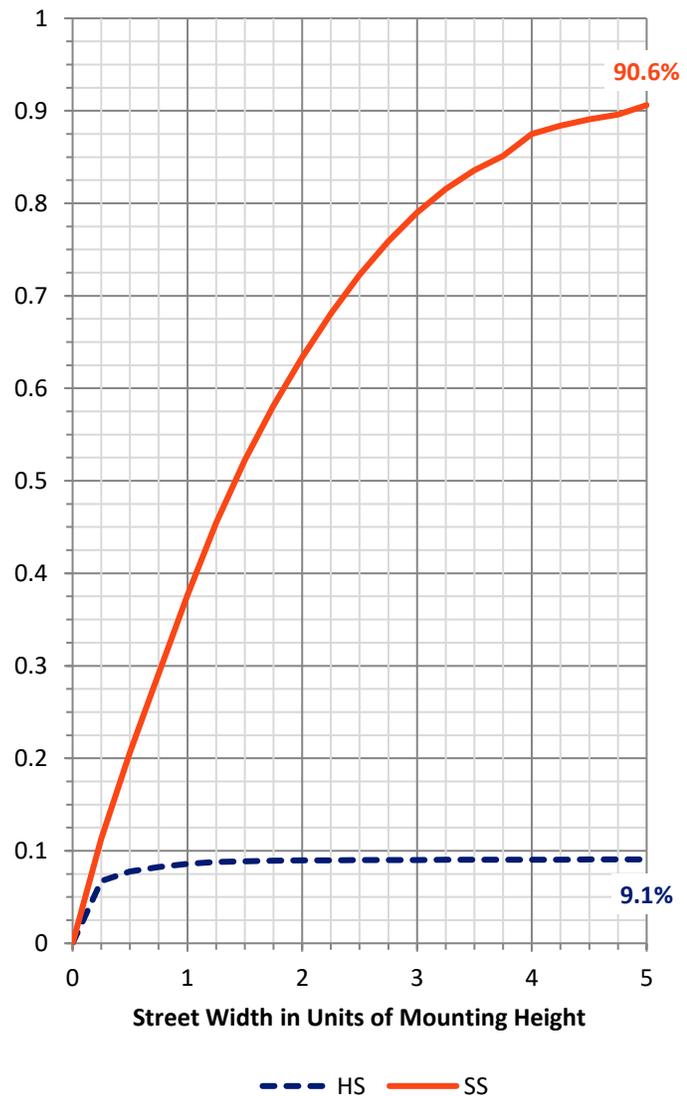
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 870.2 | 0.0 | 870.2 |
| | % Fixture | 9.1 | 0.0 | 9.1 |
| Street Side | Lumens | 8675.8 | 0.0 | 8675.8 |
| | % Fixture | 90.9 | 0.0 | 90.9 |
| Total | Lumens | 9546.0 | 0.0 | 9546.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.2 | 1.4 |
| 10°-20° | 295.7 | 3.1 |
| 20°-30° | 443.0 | 4.6 |
| 30°-40° | 704.8 | 7.4 |
| 40°-50° | 1258.7 | 13.2 |
| 50°-60° | 1953.1 | 20.5 |
| 60°-70° | 2596.3 | 27.2 |
| 70°-80° | 1953.0 | 20.5 |
| 80°-90° | 205.2 | 2.1 |
| 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° | 9546.0 | 100.0 |
| 0°-180° | 9546.0 | 100.0 |



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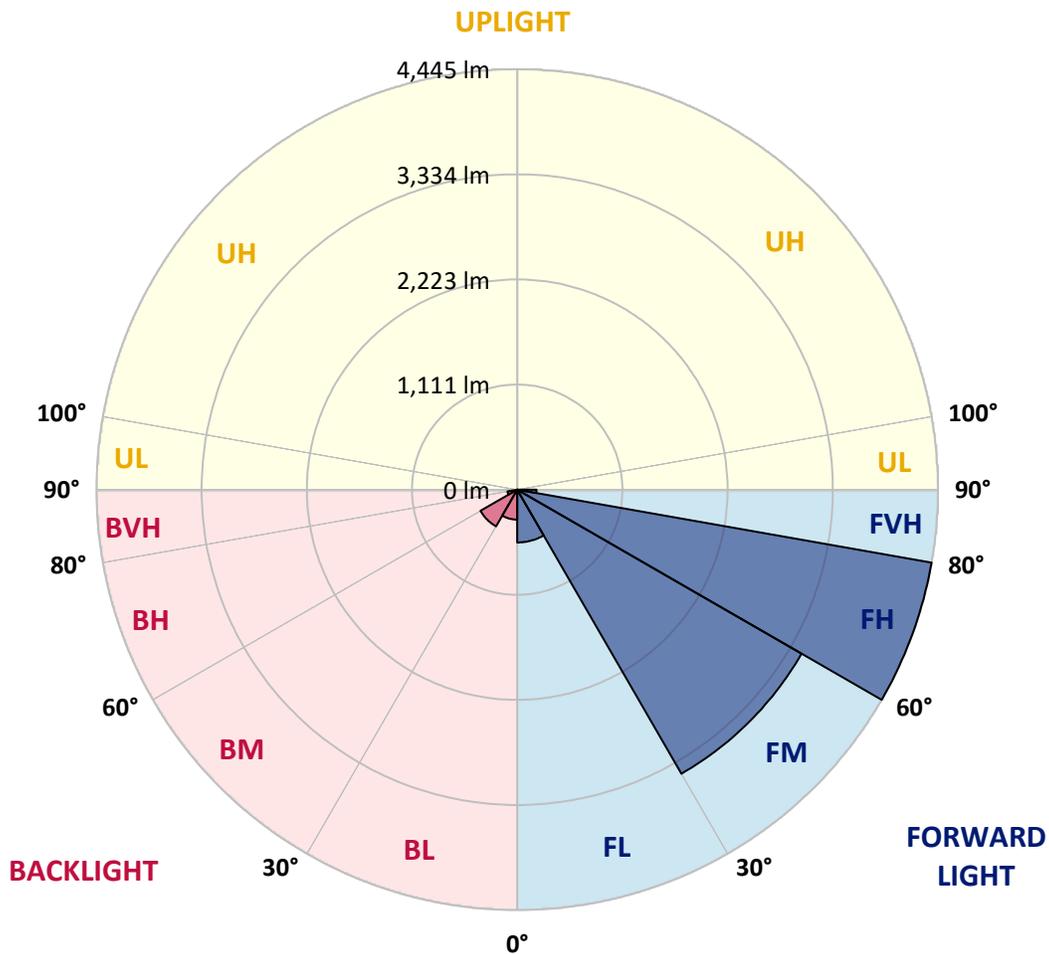
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 558.5 | 5.9 | | | |
| FM | (30°-60°) | 3468.7 | 36.3 | | | |
| FH | (60°-80°) | 4445.2 | 46.6 | | | G2/5000 |
| FVH | (80°-90°) | 203.5 | 2.1 | | | G2/225 |
| BL | (0°-30°) | 316.4 | 3.3 | B1/500 | | |
| BM | (30°-60°) | 447.9 | 4.7 | B1/1000 | | |
| BH | (60°-80°) | 104.1 | 1.1 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 1.7 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 31° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 |
| 2.5° | 1556.5 | 1563.0 | 1570.0 | 1571.4 | 1583.1 | 1583.6 | 1600.4 | 1613.0 | 1625.6 | 1637.7 | 1641.9 |
| 5° | 1396.7 | 1407.4 | 1420.1 | 1432.7 | 1457.4 | 1467.2 | 1508.3 | 1550.4 | 1590.6 | 1628.9 | 1647.5 |
| 7.5° | 1226.2 | 1238.3 | 1256.1 | 1287.4 | 1315.0 | 1334.1 | 1399.0 | 1473.8 | 1548.5 | 1619.1 | 1659.7 |
| 10° | 1070.6 | 1081.9 | 1100.5 | 1133.7 | 1176.2 | 1202.4 | 1289.7 | 1393.4 | 1503.2 | 1610.2 | 1677.9 |
| 12.5° | 971.6 | 977.7 | 988.0 | 1023.5 | 1061.8 | 1091.2 | 1194.0 | 1322.4 | 1465.8 | 1609.7 | 1707.3 |
| 15° | 953.4 | 955.3 | 946.9 | 962.7 | 992.6 | 1021.1 | 1125.3 | 1265.0 | 1437.3 | 1617.2 | 1745.6 |
| 17.5° | 982.4 | 981.4 | 953.4 | 951.5 | 975.4 | 998.7 | 1091.7 | 1225.3 | 1417.3 | 1634.5 | 1795.2 |
| 20° | 1026.3 | 1023.0 | 974.4 | 965.5 | 990.8 | 1012.7 | 1089.3 | 1210.3 | 1409.8 | 1663.4 | 1855.4 |
| 22.5° | 1084.7 | 1079.1 | 1002.9 | 993.6 | 1020.7 | 1043.6 | 1118.3 | 1224.8 | 1416.3 | 1702.2 | 1925.5 |
| 25° | 1157.1 | 1148.7 | 1052.0 | 1041.7 | 1069.2 | 1092.1 | 1170.1 | 1266.4 | 1435.9 | 1749.4 | 2014.2 |
| 27.5° | 1238.8 | 1226.7 | 1130.4 | 1103.8 | 1135.1 | 1158.9 | 1239.3 | 1329.9 | 1466.8 | 1799.4 | 2123.1 |
| 30° | 1315.9 | 1300.0 | 1213.1 | 1169.2 | 1207.5 | 1234.1 | 1314.0 | 1405.6 | 1516.3 | 1876.4 | 2272.1 |
| 32.5° | 1393.4 | 1375.7 | 1286.9 | 1234.6 | 1269.2 | 1298.1 | 1391.1 | 1509.7 | 1609.2 | 1994.2 | 2470.2 |
| 35° | 1571.9 | 1553.2 | 1444.3 | 1357.9 | 1357.5 | 1373.8 | 1499.0 | 1652.2 | 1732.1 | 2158.1 | 2706.5 |
| 37.5° | 1872.2 | 1861.5 | 1757.8 | 1593.8 | 1549.9 | 1531.7 | 1646.1 | 1822.3 | 1908.7 | 2383.7 | 2973.2 |
| 40° | 2201.1 | 2191.7 | 2075.4 | 1926.9 | 1860.1 | 1815.2 | 1857.3 | 2059.1 | 2158.1 | 2659.3 | 3245.6 |
| 42.5° | 2572.5 | 2528.1 | 2320.7 | 2276.3 | 2216.5 | 2182.4 | 2144.6 | 2351.0 | 2464.5 | 2959.2 | 3515.6 |
| 45° | 2909.7 | 2835.0 | 2565.9 | 2498.6 | 2485.1 | 2493.5 | 2514.5 | 2743.4 | 2809.3 | 3315.6 | 3784.6 |
| 47.5° | 3110.6 | 3051.7 | 2845.3 | 2780.8 | 2777.1 | 2832.6 | 2991.5 | 3186.7 | 3152.6 | 3626.3 | 4021.5 |
| 50° | 3301.6 | 3248.4 | 3076.9 | 3092.8 | 3110.1 | 3185.8 | 3532.9 | 3642.6 | 3466.1 | 3908.0 | 4238.7 |
| 52.5° | 3456.3 | 3375.0 | 3285.3 | 3374.5 | 3459.5 | 3581.4 | 4091.5 | 4051.8 | 3688.4 | 4132.2 | 4424.6 |
| 55° | 3545.5 | 3508.6 | 3552.0 | 3641.7 | 3801.5 | 3999.5 | 4618.9 | 4392.4 | 3851.0 | 4336.8 | 4548.4 |
| 57.5° | 3872.5 | 3800.1 | 3886.5 | 3964.0 | 4172.4 | 4449.4 | 5070.6 | 4646.0 | 3968.2 | 4463.4 | 4576.9 |
| 60° | 4268.1 | 4209.7 | 4260.6 | 4389.6 | 4670.8 | 4996.4 | 5492.9 | 4853.0 | 4029.4 | 4544.7 | 4503.1 |
| 62.5° | 4897.8 | 4820.7 | 4789.0 | 4933.3 | 5306.1 | 5661.5 | 5813.4 | 4996.4 | 4015.9 | 4508.7 | 4249.9 |
| 65° | 5741.4 | 5661.5 | 5519.5 | 5650.3 | 6124.5 | 6375.3 | 6171.6 | 5026.7 | 3922.4 | 4217.7 | 3609.9 |
| 67.5° | 6605.6 | 6547.7 | 6426.2 | 6646.7 | 7074.6 | 7155.4 | 6550.5 | 4952.9 | 3621.6 | 3419.8 | 2550.5 |
| 70° | 7176.4 | 7151.7 | 7230.6 | 7718.3 | 8099.9 | 8076.6 | 6898.0 | 4556.3 | 2822.8 | 2103.0 | 1261.7 |
| 72.5° | 6764.9 | 6883.5 | 7466.5 | 8350.8 | 8817.0 | 8626.4 | 6719.6 | 3498.8 | 1613.4 | 809.1 | 364.8 |
| 73° | 6423.9 | 6575.7 | 7360.5 | 8374.6 | 8873.5 | 8664.7 | 6569.6 | 3211.5 | 1375.2 | 638.6 | 276.5 |
| 75° | 4469.0 | 4655.4 | 6093.6 | 7799.6 | 8609.1 | 8255.5 | 5476.1 | 1965.7 | 637.2 | 283.1 | 111.6 |
| 77.5° | 2169.8 | 2307.6 | 3355.4 | 5635.4 | 6695.3 | 6450.1 | 3409.1 | 732.5 | 287.7 | 177.0 | 51.4 |
| 80° | 810.0 | 900.6 | 1456.5 | 2868.1 | 3869.2 | 3970.6 | 1499.5 | 277.0 | 191.5 | 142.5 | 26.2 |
| 82.5° | 212.1 | 236.4 | 537.2 | 1279.0 | 1982.9 | 2075.4 | 472.7 | 139.7 | 140.1 | 117.2 | 15.9 |
| 85° | 67.7 | 77.5 | 167.7 | 574.1 | 934.2 | 820.3 | 123.3 | 67.7 | 101.8 | 87.4 | 8.9 |
| 87.5° | 8.4 | 10.7 | 53.3 | 135.0 | 206.0 | 114.4 | 19.2 | 20.1 | 43.4 | 48.6 | 5.1 |
| 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° | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 | 1642.4 |
| 2.5° | 1646.1 | 1643.8 | 1644.3 | 1632.1 | 1624.2 | 1608.3 | 1592.0 | 1584.5 | 1576.5 | 1573.3 | 1576.5 |
| 5° | 1654.6 | 1650.3 | 1638.2 | 1600.8 | 1561.1 | 1509.7 | 1461.6 | 1425.2 | 1379.4 | 1366.8 | 1379.9 |
| 7.5° | 1667.6 | 1659.2 | 1623.7 | 1547.6 | 1459.3 | 1361.2 | 1251.0 | 1170.6 | 1104.7 | 1062.2 | 1077.7 |
| 10° | 1686.8 | 1670.9 | 1599.4 | 1470.0 | 1312.2 | 1138.4 | 981.9 | 860.0 | 773.6 | 738.1 | 736.7 |
| 12.5° | 1719.0 | 1689.1 | 1569.5 | 1369.1 | 1132.3 | 900.6 | 695.5 | 563.4 | 493.3 | 448.0 | 447.0 |
| 15° | 1754.5 | 1710.6 | 1531.7 | 1248.2 | 923.0 | 645.1 | 448.0 | 347.5 | 302.2 | 287.7 | 285.9 |
| 17.5° | 1798.0 | 1735.4 | 1482.7 | 1099.1 | 704.0 | 427.4 | 292.4 | 263.5 | 261.6 | 260.2 | 260.2 |
| 20° | 1852.6 | 1764.8 | 1419.6 | 928.6 | 499.4 | 285.4 | 248.5 | 250.4 | 251.3 | 249.4 | 249.9 |
| 22.5° | 1916.1 | 1794.7 | 1344.4 | 745.5 | 337.7 | 238.7 | 237.8 | 240.1 | 241.0 | 240.1 | 240.6 |
| 25° | 1989.9 | 1829.3 | 1252.8 | 553.5 | 243.8 | 226.6 | 228.9 | 232.2 | 234.5 | 234.5 | 234.5 |
| 27.5° | 2081.5 | 1871.3 | 1142.6 | 386.3 | 210.7 | 213.9 | 220.5 | 226.6 | 229.8 | 230.8 | 230.8 |
| 30° | 2200.6 | 1923.6 | 1010.4 | 264.9 | 191.5 | 197.1 | 209.3 | 220.9 | 227.0 | 228.0 | 228.4 |
| 32.5° | 2351.0 | 1982.5 | 857.2 | 195.7 | 175.2 | 179.4 | 192.5 | 212.1 | 223.8 | 225.6 | 225.6 |
| 35° | 2523.4 | 2050.7 | 692.3 | 170.5 | 163.5 | 164.9 | 175.2 | 197.6 | 218.1 | 223.3 | 223.8 |
| 37.5° | 2712.1 | 2117.9 | 526.4 | 159.3 | 153.7 | 153.7 | 161.2 | 180.3 | 204.6 | 220.5 | 222.4 |
| 40° | 2888.2 | 2158.6 | 369.0 | 150.4 | 144.8 | 144.8 | 151.3 | 165.4 | 188.3 | 212.1 | 217.2 |
| 42.5° | 3050.8 | 2172.6 | 256.9 | 142.0 | 136.4 | 137.8 | 143.4 | 154.6 | 171.9 | 195.7 | 200.4 |
| 45° | 3218.0 | 2170.3 | 187.3 | 132.2 | 128.0 | 132.2 | 136.4 | 144.8 | 157.4 | 171.0 | 171.9 |
| 47.5° | 3344.1 | 2150.6 | 148.5 | 122.9 | 120.1 | 125.7 | 129.4 | 135.0 | 142.0 | 141.1 | 141.1 |
| 50° | 3462.3 | 2103.0 | 119.6 | 110.2 | 112.1 | 118.6 | 120.5 | 122.4 | 122.9 | 114.0 | 113.0 |
| 52.5° | 3552.0 | 2028.7 | 95.8 | 96.7 | 104.2 | 110.7 | 108.8 | 106.0 | 101.4 | 90.6 | 88.8 |
| 55° | 3581.9 | 1885.8 | 75.2 | 79.9 | 92.5 | 100.9 | 93.9 | 87.8 | 78.9 | 70.1 | 68.2 |
| 57.5° | 3527.7 | 1701.3 | 61.2 | 62.1 | 78.0 | 85.0 | 77.1 | 70.1 | 60.3 | 52.8 | 51.4 |
| 60° | 3412.8 | 1496.2 | 50.4 | 46.7 | 60.3 | 66.3 | 61.2 | 54.2 | 45.3 | 39.7 | 39.2 |
| 62.5° | 3184.9 | 1277.6 | 41.6 | 36.4 | 45.8 | 50.9 | 47.6 | 42.5 | 35.0 | 31.3 | 30.8 |
| 65° | 2705.6 | 1022.1 | 33.6 | 29.4 | 35.5 | 39.7 | 36.9 | 33.2 | 27.6 | 24.8 | 24.3 |
| 67.5° | 1888.6 | 690.9 | 27.6 | 24.3 | 28.0 | 31.3 | 29.0 | 27.1 | 22.0 | 21.5 | 22.0 |
| 70° | 910.9 | 333.1 | 22.9 | 19.6 | 22.0 | 24.3 | 23.4 | 22.0 | 21.0 | 24.3 | 28.0 |
| 72.5° | 261.1 | 111.6 | 18.2 | 16.3 | 17.8 | 19.2 | 20.1 | 19.6 | 22.9 | 29.4 | 34.1 |
| 73° | 200.9 | 90.2 | 17.3 | 15.4 | 16.8 | 18.7 | 19.6 | 19.2 | 23.4 | 29.9 | 34.1 |
| 75° | 86.0 | 43.4 | 13.1 | 12.6 | 14.0 | 16.3 | 17.3 | 17.3 | 23.4 | 30.4 | 32.7 |
| 77.5° | 38.8 | 23.4 | 8.4 | 9.8 | 12.1 | 13.1 | 14.5 | 14.5 | 18.7 | 23.4 | 23.4 |
| 80° | 22.0 | 12.6 | 6.5 | 7.5 | 8.9 | 8.9 | 8.9 | 7.9 | 8.4 | 9.3 | 10.3 |
| 82.5° | 14.0 | 8.4 | 5.1 | 6.1 | 5.6 | 4.7 | 3.7 | 3.7 | 3.3 | 3.7 | 4.7 |
| 85° | 7.9 | 4.7 | 4.7 | 3.7 | 2.3 | 1.9 | 2.3 | 1.9 | 0.5 | 0.0 | 0.5 |
| 87.5° | 4.7 | 2.8 | 1.4 | 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)