

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: P1209151

Luminaire Tested: UPW-SA2-090-827-U-SL3

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2211-834-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-SL3
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8320 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

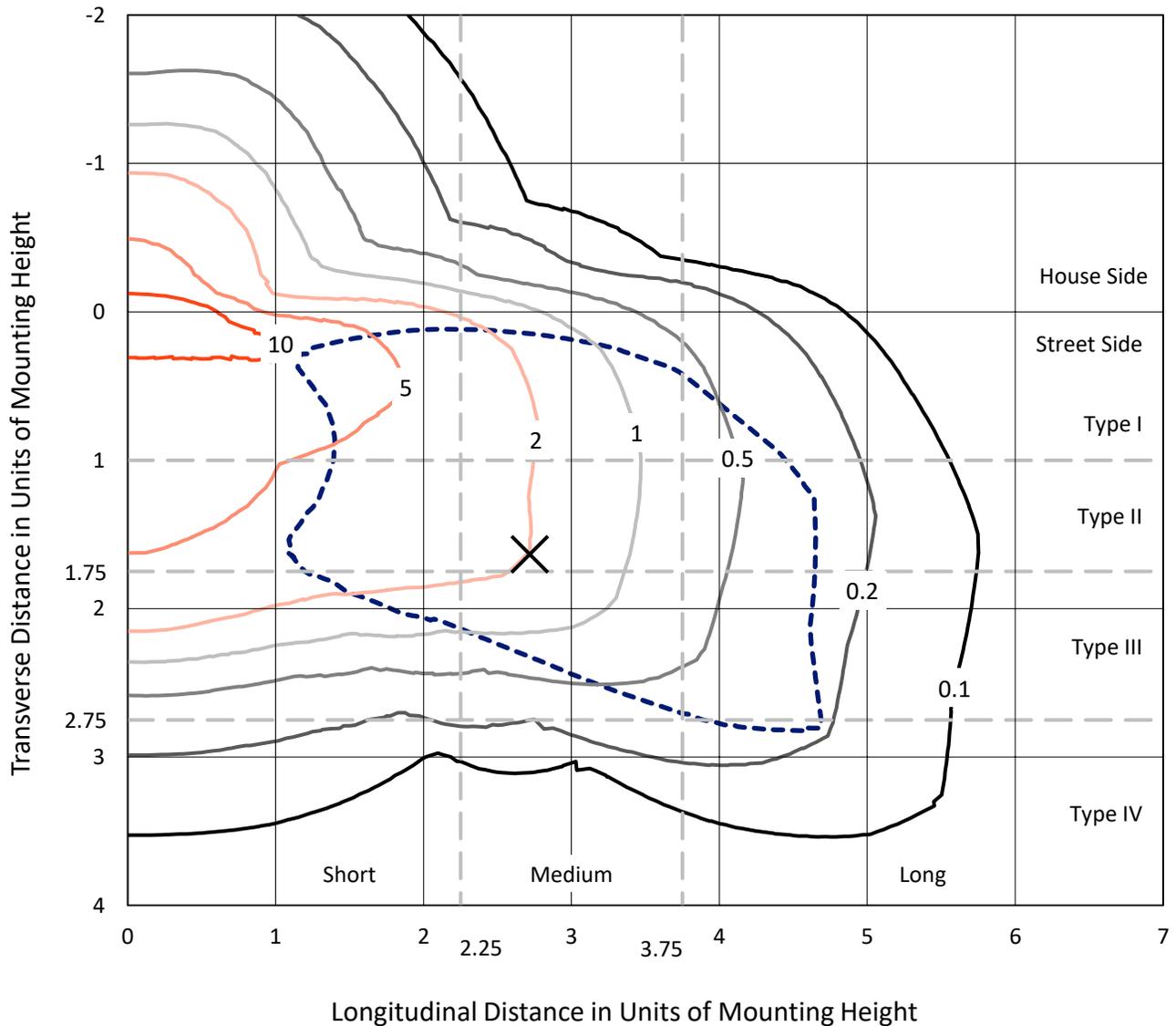


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Iso-Footcandle Lines of Horizontal Illumination

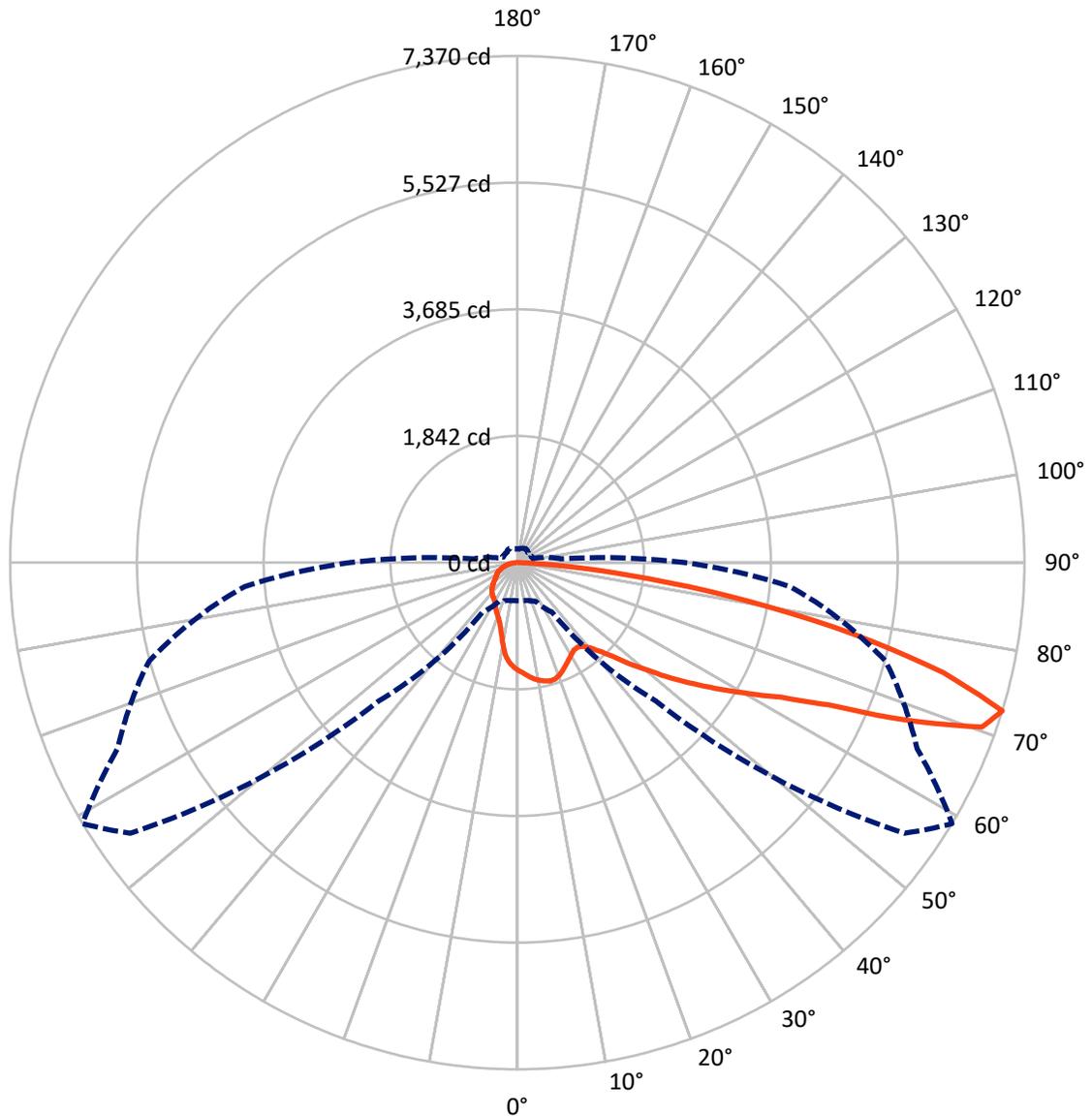
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1415.7 | 0.0 | 1415.7 |
| | % Fixture | 17.0 | 0.0 | 17.0 |
| Street Side | Lumens | 6904.3 | 0.0 | 6904.3 |
| | % Fixture | 83.0 | 0.0 | 83.0 |
| Total | Lumens | 8320.0 | 0.0 | 8320.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.8 | 1.7 |
| 10°-20° | 359.4 | 4.3 |
| 20°-30° | 528.5 | 6.4 |
| 30°-40° | 726.2 | 8.7 |
| 40°-50° | 1084.7 | 13.0 |
| 50°-60° | 1653.1 | 19.9 |
| 60°-70° | 2118.8 | 25.5 |
| 70°-80° | 1464.7 | 17.6 |
| 80°-90° | 243.7 | 2.9 |
| 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° | 8320.0 | 100.0 |
| 0°-180° | 8320.0 | 100.0 |



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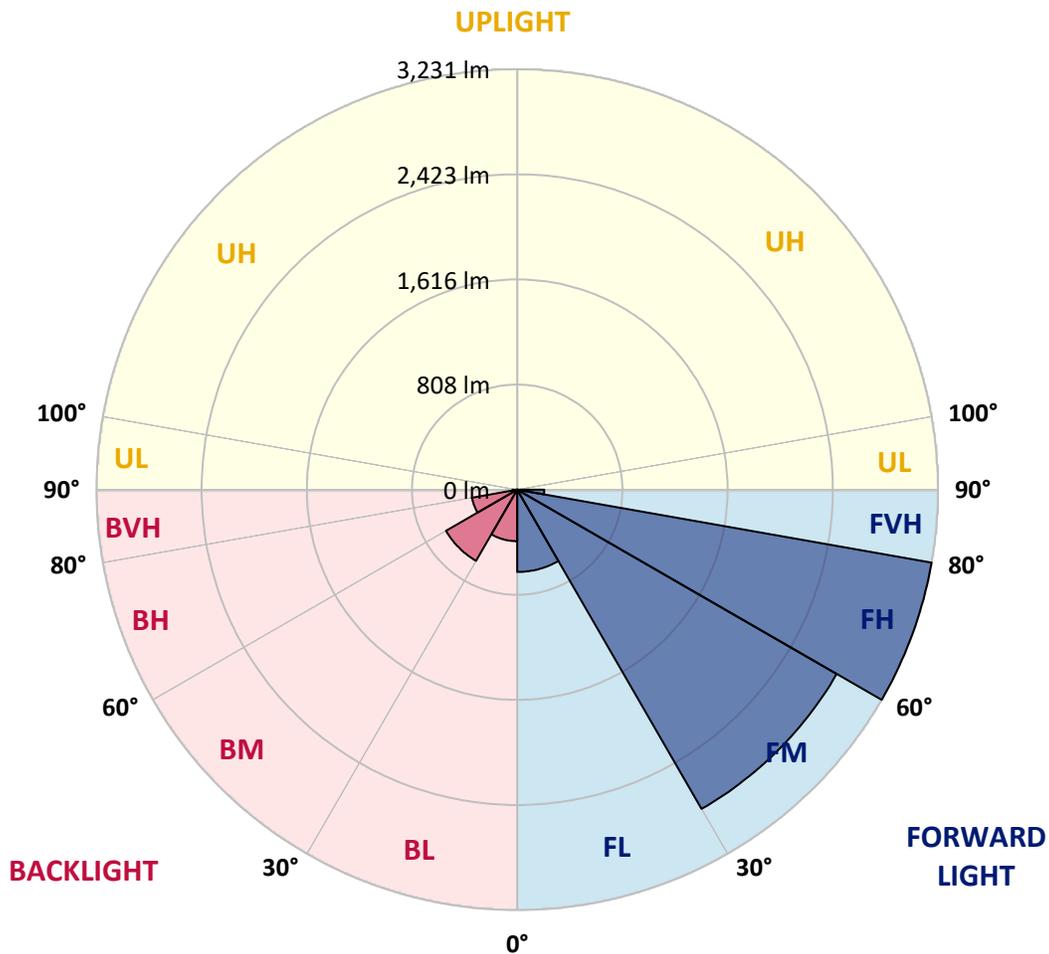
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 632.6 | 7.6 | | | |
| FM (30°-60°) | 2832.6 | 34.0 | | | |
| FH (60°-80°) | 3231.2 | 38.8 | | | G2/5000 |
| FVH (80°-90°) | 207.9 | 2.5 | | | G2/225 |
| BL (0°-30°) | 396.2 | 4.8 | B1/500 | | |
| BM (30°-60°) | 631.4 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 352.3 | 4.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 35.8 | 0.4 | | | 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 |
| 2.5° | 1633.4 | 1628.7 | 1631.1 | 1634.5 | 1625.3 | 1626.4 | 1614.9 | 1605.7 | 1598.8 | 1594.1 | 1583.8 |
| 5° | 1673.7 | 1662.2 | 1666.8 | 1677.2 | 1666.8 | 1676.0 | 1663.4 | 1656.4 | 1644.9 | 1638.0 | 1614.9 |
| 7.5° | 1640.3 | 1632.2 | 1643.7 | 1670.3 | 1683.0 | 1707.2 | 1709.5 | 1704.9 | 1700.3 | 1685.3 | 1656.4 |
| 10° | 1485.7 | 1481.1 | 1511.1 | 1581.5 | 1640.3 | 1699.1 | 1738.3 | 1738.3 | 1740.6 | 1730.3 | 1695.7 |
| 12.5° | 1289.6 | 1286.2 | 1325.4 | 1411.9 | 1527.2 | 1662.2 | 1755.6 | 1766.0 | 1784.5 | 1781.0 | 1737.2 |
| 15° | 1159.3 | 1157.0 | 1188.1 | 1257.3 | 1376.1 | 1567.6 | 1753.3 | 1787.9 | 1826.0 | 1834.1 | 1779.9 |
| 17.5° | 1092.4 | 1092.4 | 1114.3 | 1167.3 | 1249.2 | 1436.1 | 1702.6 | 1778.7 | 1856.0 | 1894.1 | 1828.3 |
| 20° | 1073.9 | 1071.6 | 1084.3 | 1116.6 | 1173.1 | 1318.5 | 1626.4 | 1746.4 | 1879.1 | 1942.5 | 1859.5 |
| 22.5° | 1083.1 | 1080.8 | 1085.4 | 1101.6 | 1133.9 | 1240.0 | 1544.5 | 1698.0 | 1891.7 | 1985.2 | 1887.1 |
| 25° | 1128.1 | 1125.8 | 1120.1 | 1118.9 | 1125.8 | 1203.1 | 1461.5 | 1643.7 | 1904.4 | 2046.3 | 1920.6 |
| 27.5° | 1215.8 | 1208.9 | 1189.3 | 1170.8 | 1152.4 | 1195.0 | 1408.4 | 1595.3 | 1920.6 | 2097.1 | 1941.3 |
| 30° | 1328.8 | 1326.5 | 1302.3 | 1267.7 | 1206.6 | 1213.5 | 1375.0 | 1550.3 | 1920.6 | 2136.3 | 1940.2 |
| 32.5° | 1411.9 | 1413.0 | 1408.4 | 1387.7 | 1301.2 | 1255.0 | 1362.3 | 1513.4 | 1917.1 | 2190.5 | 1944.8 |
| 35° | 1499.6 | 1499.6 | 1488.0 | 1488.0 | 1431.5 | 1335.8 | 1380.7 | 1509.9 | 1936.7 | 2280.5 | 1978.3 |
| 37.5° | 1648.4 | 1646.1 | 1621.8 | 1597.6 | 1556.1 | 1466.1 | 1435.0 | 1543.4 | 1990.9 | 2424.7 | 2023.2 |
| 40° | 1844.5 | 1849.1 | 1799.5 | 1732.6 | 1684.1 | 1617.2 | 1536.5 | 1628.7 | 2075.2 | 2596.5 | 2080.9 |
| 42.5° | 2080.9 | 2093.6 | 2016.3 | 1924.0 | 1839.8 | 1752.2 | 1678.3 | 1764.9 | 2224.0 | 2841.1 | 2180.1 |
| 45° | 2371.6 | 2358.9 | 2262.0 | 2138.6 | 2027.9 | 1879.1 | 1834.1 | 1941.3 | 2417.7 | 3172.1 | 2332.4 |
| 47.5° | 2624.2 | 2631.1 | 2512.3 | 2377.4 | 2240.1 | 2033.6 | 2031.3 | 2199.7 | 2673.8 | 3511.3 | 2507.7 |
| 50° | 2869.9 | 2890.7 | 2759.2 | 2617.3 | 2470.8 | 2206.7 | 2280.5 | 2455.8 | 2948.4 | 3857.3 | 2724.6 |
| 52.5° | 3062.6 | 3076.4 | 2954.1 | 2831.9 | 2686.5 | 2435.0 | 2574.6 | 2784.6 | 3226.4 | 4188.4 | 2973.7 |
| 55° | 3214.8 | 3234.4 | 3097.2 | 2995.7 | 2884.9 | 2684.2 | 2911.4 | 3108.7 | 3514.7 | 4496.4 | 3228.7 |
| 57.5° | 3421.3 | 3432.8 | 3259.8 | 3171.0 | 3067.2 | 2968.0 | 3281.7 | 3473.2 | 3823.9 | 4758.2 | 3492.8 |
| 60° | 3579.3 | 3586.2 | 3407.5 | 3379.8 | 3377.5 | 3359.0 | 3693.5 | 3864.2 | 4114.6 | 5002.8 | 3762.7 |
| 62.5° | 3442.1 | 3442.1 | 3318.6 | 3395.9 | 3676.2 | 4001.5 | 4264.5 | 4315.3 | 4414.5 | 5240.4 | 4022.3 |
| 65° | 2726.9 | 2754.6 | 2768.4 | 3028.0 | 3654.3 | 4659.0 | 5211.5 | 4987.8 | 4789.4 | 5458.4 | 4234.5 |
| 67.5° | 1431.5 | 1486.9 | 1614.9 | 2062.5 | 3013.0 | 4898.9 | 6425.0 | 6128.6 | 5321.1 | 5604.9 | 4317.6 |
| 70° | 729.0 | 745.2 | 812.1 | 1062.4 | 1896.4 | 4268.0 | 7146.0 | 7163.3 | 5955.5 | 5668.3 | 4257.6 |
| 72.5° | 553.7 | 553.7 | 568.7 | 618.3 | 876.7 | 2846.9 | 6863.4 | 7369.7 | 6410.0 | 5540.3 | 3975.0 |
| 75° | 461.4 | 467.2 | 497.2 | 504.1 | 442.9 | 1477.6 | 5566.8 | 6393.9 | 5926.7 | 5070.8 | 3472.1 |
| 77.5° | 370.3 | 373.7 | 421.0 | 448.7 | 298.8 | 632.1 | 4059.2 | 4990.1 | 4570.2 | 4098.4 | 2445.4 |
| 80° | 279.1 | 284.9 | 327.6 | 384.1 | 221.5 | 303.4 | 2735.0 | 3413.2 | 2859.5 | 2512.3 | 1129.3 |
| 82.5° | 186.9 | 189.2 | 223.8 | 303.4 | 163.8 | 168.4 | 1611.4 | 1912.5 | 1390.0 | 941.3 | 296.5 |
| 85° | 114.2 | 116.5 | 139.6 | 196.1 | 108.4 | 90.0 | 715.2 | 739.4 | 439.5 | 223.8 | 106.1 |
| 87.5° | 51.9 | 57.7 | 72.7 | 94.6 | 54.2 | 36.9 | 120.0 | 117.7 | 86.5 | 80.7 | 45.0 |
| 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° | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 | 1566.5 |
| 2.5° | 1568.8 | 1556.1 | 1543.4 | 1526.1 | 1511.1 | 1485.7 | 1468.4 | 1451.1 | 1441.9 | 1439.6 | 1436.1 |
| 5° | 1596.5 | 1574.5 | 1537.6 | 1489.2 | 1436.1 | 1376.1 | 1319.6 | 1270.0 | 1236.6 | 1226.2 | 1230.8 |
| 7.5° | 1628.7 | 1597.6 | 1524.9 | 1431.5 | 1324.2 | 1206.6 | 1107.4 | 1042.8 | 1002.4 | 979.3 | 983.9 |
| 10° | 1657.6 | 1612.6 | 1497.2 | 1340.4 | 1157.0 | 1009.3 | 930.9 | 885.9 | 865.1 | 862.8 | 861.7 |
| 12.5° | 1686.4 | 1627.6 | 1454.6 | 1210.0 | 1007.0 | 890.5 | 851.3 | 838.6 | 836.3 | 838.6 | 837.4 |
| 15° | 1719.9 | 1635.7 | 1381.9 | 1075.1 | 900.9 | 840.9 | 828.2 | 824.8 | 825.9 | 831.7 | 830.5 |
| 17.5° | 1747.6 | 1632.2 | 1268.9 | 952.8 | 844.4 | 816.7 | 805.1 | 799.4 | 805.1 | 815.5 | 815.5 |
| 20° | 1756.8 | 1598.8 | 1138.5 | 867.4 | 813.2 | 790.2 | 774.0 | 764.8 | 771.7 | 784.4 | 786.7 |
| 22.5° | 1749.9 | 1535.3 | 1004.7 | 807.5 | 780.9 | 759.0 | 741.7 | 732.5 | 735.9 | 745.2 | 746.3 |
| 25° | 1739.5 | 1452.3 | 887.0 | 761.3 | 739.4 | 722.1 | 717.5 | 705.9 | 700.2 | 705.9 | 707.1 |
| 27.5° | 1708.3 | 1342.7 | 790.2 | 714.0 | 693.3 | 695.6 | 693.3 | 682.9 | 674.8 | 673.6 | 676.0 |
| 30° | 1639.1 | 1190.4 | 717.5 | 665.6 | 658.7 | 671.3 | 671.3 | 656.3 | 641.3 | 639.0 | 642.5 |
| 32.5° | 1556.1 | 1034.7 | 657.5 | 625.2 | 639.0 | 646.0 | 646.0 | 633.3 | 618.3 | 609.1 | 613.7 |
| 35° | 1474.2 | 887.0 | 611.4 | 597.5 | 624.0 | 629.8 | 624.0 | 619.4 | 595.2 | 572.1 | 577.9 |
| 37.5° | 1379.6 | 760.2 | 571.0 | 576.8 | 606.7 | 609.1 | 609.1 | 592.9 | 560.6 | 541.0 | 545.6 |
| 40° | 1276.9 | 664.4 | 537.5 | 558.3 | 588.3 | 588.3 | 579.1 | 568.7 | 552.5 | 532.9 | 535.2 |
| 42.5° | 1211.2 | 599.8 | 512.2 | 538.7 | 559.4 | 566.4 | 545.6 | 553.7 | 539.8 | 519.1 | 521.4 |
| 45° | 1202.0 | 559.4 | 491.4 | 508.7 | 527.2 | 524.8 | 526.0 | 531.8 | 519.1 | 491.4 | 490.2 |
| 47.5° | 1258.5 | 546.8 | 471.8 | 475.2 | 491.4 | 499.5 | 506.4 | 508.7 | 490.2 | 460.2 | 455.6 |
| 50° | 1384.2 | 568.7 | 452.2 | 445.3 | 459.1 | 477.6 | 484.5 | 487.9 | 466.0 | 434.9 | 430.3 |
| 52.5° | 1578.0 | 636.7 | 434.9 | 419.9 | 418.7 | 451.0 | 470.6 | 479.9 | 445.3 | 411.8 | 409.5 |
| 55° | 1792.5 | 729.0 | 411.8 | 398.0 | 385.3 | 430.3 | 459.1 | 469.5 | 425.6 | 381.8 | 378.3 |
| 57.5° | 2020.9 | 838.6 | 385.3 | 376.0 | 361.0 | 410.6 | 438.3 | 446.4 | 395.7 | 346.1 | 343.7 |
| 60° | 2259.7 | 936.6 | 359.9 | 351.8 | 343.7 | 384.1 | 413.0 | 415.3 | 368.0 | 318.4 | 316.1 |
| 62.5° | 2475.4 | 1003.5 | 335.7 | 326.4 | 326.4 | 353.0 | 383.0 | 380.7 | 339.1 | 293.0 | 290.7 |
| 65° | 2634.6 | 995.5 | 313.8 | 302.2 | 306.8 | 319.5 | 346.1 | 338.0 | 308.0 | 268.8 | 266.5 |
| 67.5° | 2699.2 | 910.1 | 293.0 | 280.3 | 281.5 | 284.9 | 306.8 | 301.1 | 276.8 | 244.5 | 243.4 |
| 70° | 2632.3 | 756.7 | 266.5 | 250.3 | 248.0 | 249.2 | 271.1 | 260.7 | 243.4 | 222.6 | 221.5 |
| 72.5° | 2432.7 | 634.4 | 236.5 | 222.6 | 218.0 | 214.6 | 233.0 | 228.4 | 215.7 | 198.4 | 199.6 |
| 75° | 2132.8 | 547.9 | 204.2 | 194.9 | 186.9 | 183.4 | 198.4 | 196.1 | 186.9 | 175.3 | 175.3 |
| 77.5° | 1490.3 | 400.3 | 168.4 | 165.0 | 160.3 | 153.4 | 165.0 | 166.1 | 160.3 | 156.9 | 155.7 |
| 80° | 646.0 | 223.8 | 132.7 | 135.0 | 129.2 | 124.6 | 133.8 | 135.0 | 139.6 | 135.0 | 136.1 |
| 82.5° | 186.9 | 110.7 | 95.7 | 102.7 | 100.4 | 95.7 | 100.4 | 110.7 | 103.8 | 91.1 | 93.4 |
| 85° | 69.2 | 53.1 | 60.0 | 64.6 | 61.1 | 48.4 | 63.4 | 72.7 | 65.7 | 61.1 | 62.3 |
| 87.5° | 26.5 | 19.6 | 25.4 | 21.9 | 17.3 | 12.7 | 21.9 | 24.2 | 32.3 | 12.7 | 10.4 |
| 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)