

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P483207

Luminaire Tested: **IFLD-M-SA4A-735-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483207
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

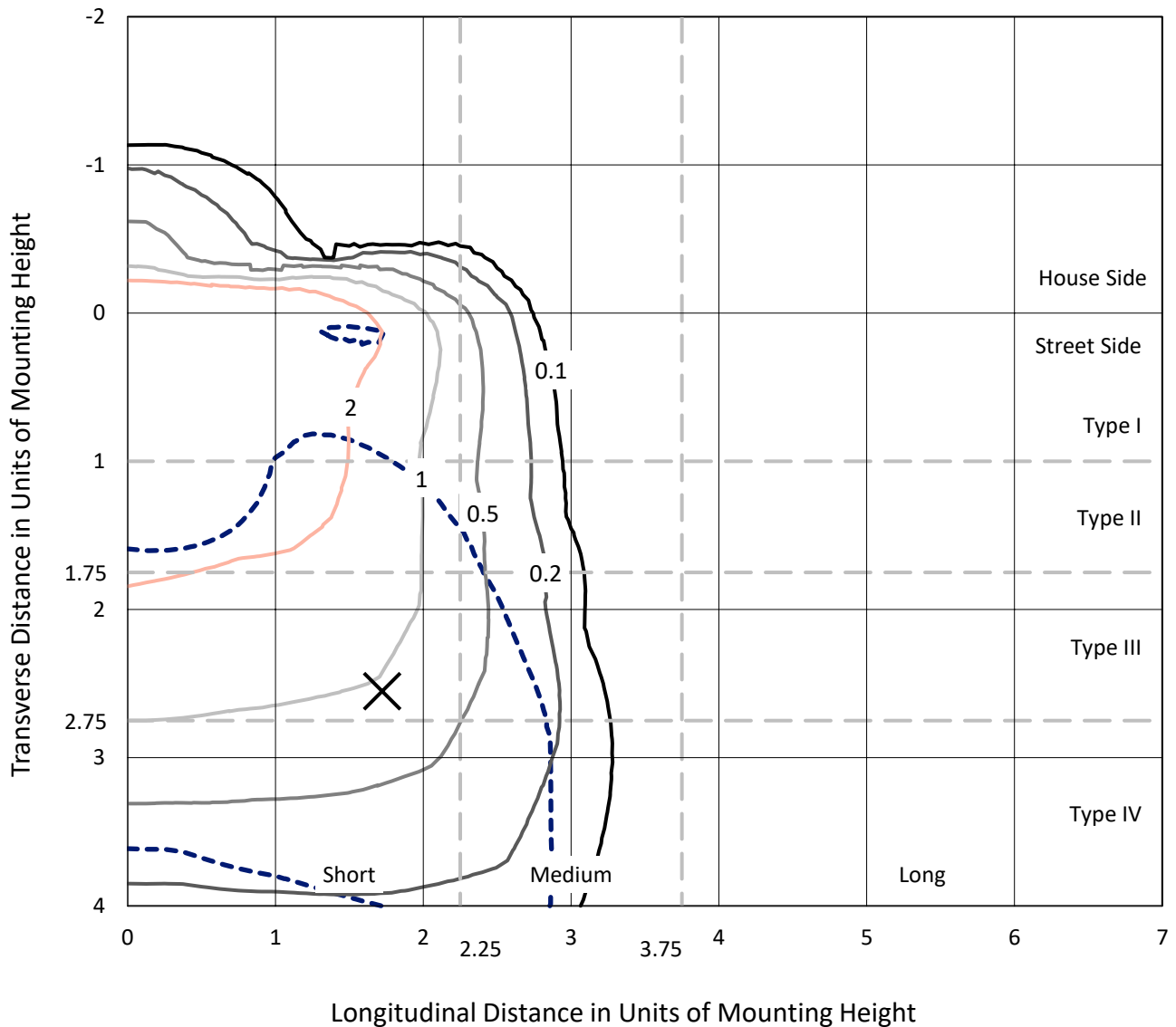
Lumens per Lamp: N/A
Luminaire Lumens: 13170.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

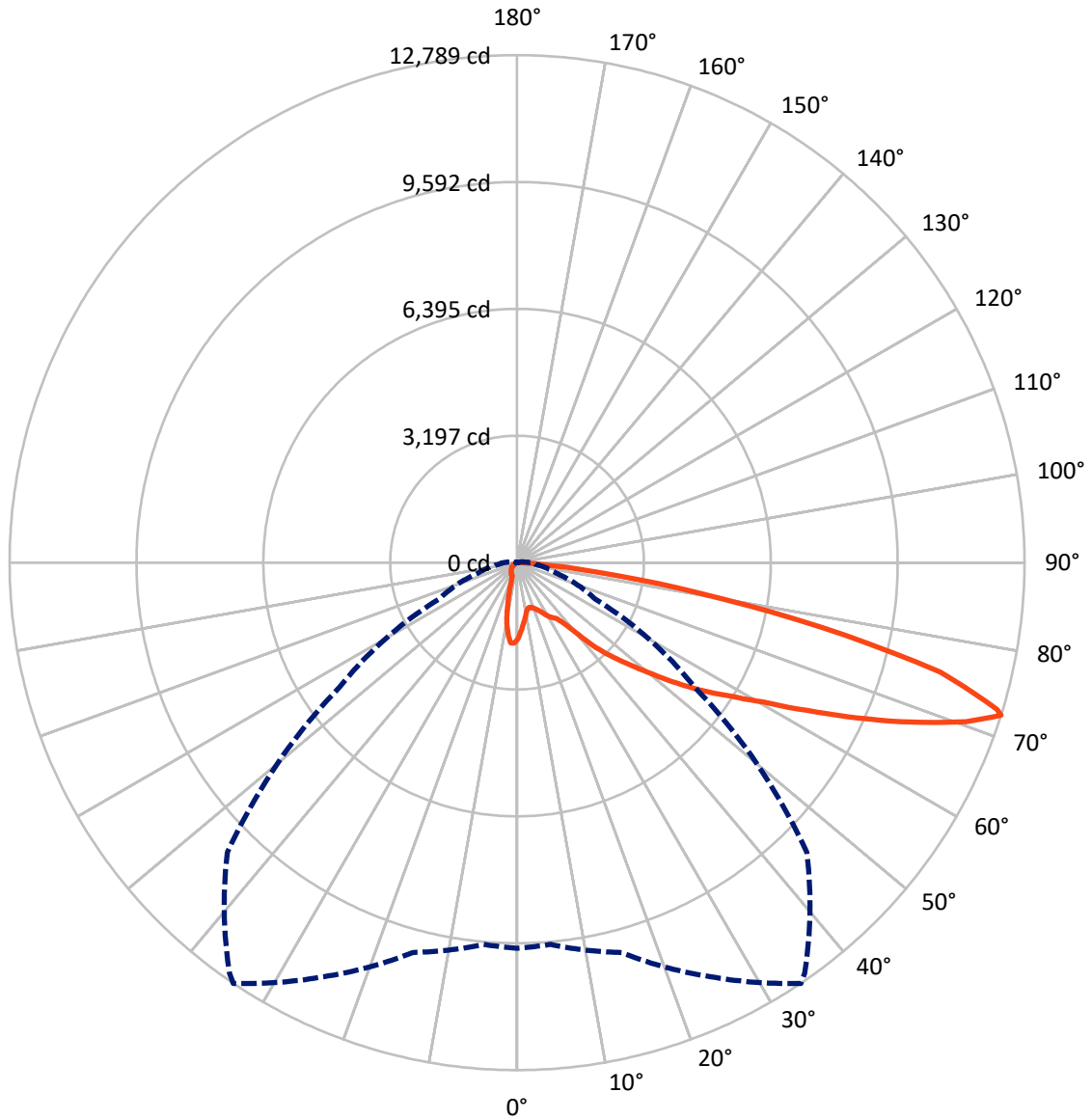
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1348.3 | 0.0 | 1348.3 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 11822.2 | 0.0 | 11822.2 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 13170.6 | 0.0 | 13170.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.3 | 1.3 |
| 10°-20° | 378.7 | 2.9 |
| 20°-30° | 571.6 | 4.3 |
| 30°-40° | 927.6 | 7.0 |
| 40°-50° | 1744.3 | 13.2 |
| 50°-60° | 2851.9 | 21.7 |
| 60°-70° | 3791.3 | 28.8 |
| 70°-80° | 2539.0 | 19.3 |
| 80°-90° | 199.0 | 1.5 |
| 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° | 13170.6 | 100.0 |
| 0°-180° | 13170.6 | 100.0 |

Coefficient of Utilization



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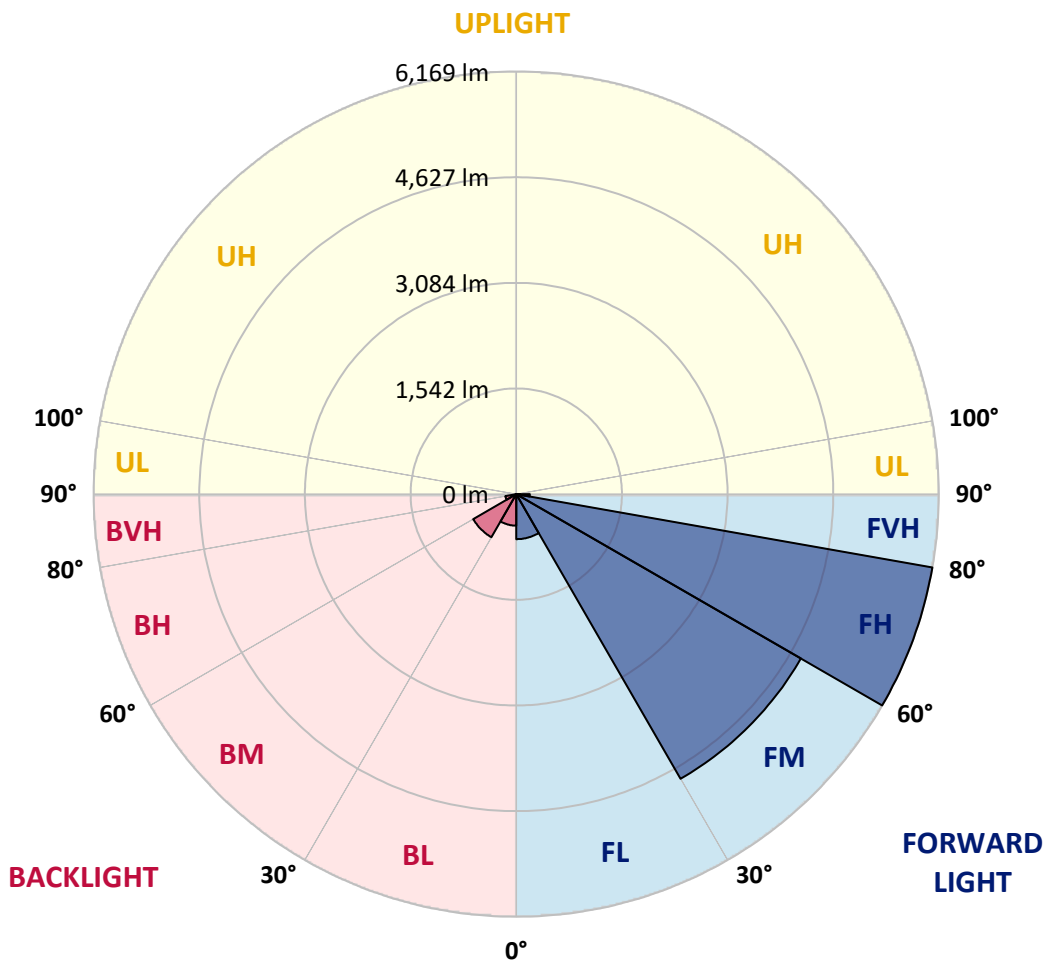
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 657.5 | 5.0 | | | |
| FM (30°-60°) | 4798.0 | 36.4 | | | |
| FH (60°-80°) | 6169.0 | 46.8 | | | G3/7500 |
| FVH (80°-90°) | 197.7 | 1.5 | | | G2/225 |
| BL (0°-30°) | 460.1 | 3.5 | B1/500 | | |
| BM (30°-60°) | 725.8 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 161.2 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 |
| 2.5° | 1704.1 | 1700.3 | 1711.7 | 1730.8 | 1749.8 | 1742.2 | 1778.4 | 1816.4 | 1843.1 | 1879.3 | 1923.1 |
| 5° | 1488.9 | 1498.5 | 1509.9 | 1548.0 | 1572.7 | 1578.4 | 1645.1 | 1694.6 | 1776.4 | 1860.2 | 1938.3 |
| 7.5° | 1292.8 | 1304.3 | 1327.1 | 1369.0 | 1420.4 | 1433.7 | 1500.4 | 1599.4 | 1706.0 | 1816.4 | 1944.0 |
| 10° | 1150.0 | 1161.5 | 1186.2 | 1212.9 | 1281.4 | 1281.4 | 1372.8 | 1509.9 | 1648.9 | 1778.4 | 1945.9 |
| 12.5° | 1119.6 | 1125.3 | 1123.4 | 1144.3 | 1188.1 | 1197.6 | 1287.1 | 1437.5 | 1599.4 | 1765.0 | 1976.4 |
| 15° | 1155.7 | 1159.5 | 1140.5 | 1129.1 | 1167.2 | 1176.7 | 1260.5 | 1393.7 | 1567.0 | 1772.6 | 2025.9 |
| 17.5° | 1228.1 | 1214.8 | 1176.7 | 1159.5 | 1191.9 | 1197.6 | 1275.7 | 1391.8 | 1563.2 | 1793.6 | 2083.0 |
| 20° | 1270.0 | 1285.2 | 1218.6 | 1186.2 | 1231.9 | 1239.5 | 1323.3 | 1422.3 | 1582.2 | 1829.8 | 2163.0 |
| 22.5° | 1344.2 | 1351.9 | 1262.4 | 1241.4 | 1285.2 | 1285.2 | 1380.4 | 1483.2 | 1627.9 | 1888.8 | 2258.2 |
| 25° | 1449.0 | 1439.4 | 1334.7 | 1313.8 | 1355.7 | 1372.8 | 1468.0 | 1580.3 | 1698.4 | 1944.0 | 2345.8 |
| 27.5° | 1530.8 | 1536.5 | 1450.9 | 1395.6 | 1466.1 | 1477.5 | 1580.3 | 1685.1 | 1751.7 | 1989.7 | 2452.4 |
| 30° | 1652.7 | 1641.3 | 1549.9 | 1487.0 | 1574.6 | 1576.5 | 1675.5 | 1784.1 | 1854.5 | 2071.6 | 2612.3 |
| 32.5° | 1797.4 | 1774.5 | 1669.8 | 1580.3 | 1650.8 | 1667.9 | 1768.8 | 1926.9 | 2014.5 | 2225.8 | 2859.8 |
| 35° | 2103.9 | 2048.7 | 1877.4 | 1738.4 | 1744.1 | 1751.7 | 1907.8 | 2134.4 | 2235.3 | 2421.9 | 3191.1 |
| 37.5° | 2551.4 | 2528.5 | 2334.3 | 2069.7 | 1968.8 | 1945.9 | 2121.1 | 2408.6 | 2534.2 | 2680.9 | 3621.4 |
| 40° | 2995.0 | 2962.7 | 2781.8 | 2581.8 | 2399.1 | 2353.4 | 2441.0 | 2772.3 | 2886.5 | 3040.7 | 4063.2 |
| 42.5° | 3488.2 | 3431.0 | 3217.8 | 3055.9 | 2941.7 | 2892.2 | 2857.9 | 3229.2 | 3358.7 | 3463.4 | 4495.4 |
| 45° | 3987.0 | 3893.7 | 3585.3 | 3461.5 | 3400.6 | 3373.9 | 3370.1 | 3804.2 | 3882.3 | 3903.2 | 4975.2 |
| 47.5° | 4424.9 | 4324.0 | 4044.1 | 3905.1 | 3859.4 | 3851.8 | 4065.1 | 4466.8 | 4405.9 | 4350.7 | 5510.2 |
| 50° | 4761.9 | 4697.2 | 4495.4 | 4445.9 | 4411.6 | 4398.3 | 4897.1 | 5148.5 | 4866.7 | 4769.6 | 5980.5 |
| 52.5° | 5283.7 | 5138.9 | 4910.5 | 4927.6 | 5047.6 | 5049.5 | 5740.6 | 5795.8 | 5249.4 | 5057.1 | 6424.2 |
| 55° | 5700.6 | 5605.4 | 5418.8 | 5394.1 | 5710.2 | 5744.4 | 6496.5 | 6287.1 | 5462.6 | 5331.3 | 6587.9 |
| 57.5° | 6191.9 | 6148.1 | 6012.9 | 6016.7 | 6348.0 | 6420.3 | 7168.6 | 6702.1 | 5639.7 | 5508.3 | 6612.7 |
| 60° | 6902.1 | 6776.4 | 6706.0 | 6738.3 | 7128.6 | 7199.1 | 7819.8 | 7001.1 | 5725.4 | 5624.5 | 6551.7 |
| 62.5° | 7686.5 | 7539.9 | 7463.8 | 7629.4 | 8198.7 | 8210.1 | 8314.8 | 7265.7 | 5672.1 | 5654.9 | 6159.5 |
| 65° | 8630.9 | 8486.2 | 8425.3 | 8758.5 | 9434.4 | 9392.5 | 9009.8 | 7378.1 | 5502.6 | 5348.4 | 5129.4 |
| 67.5° | 9571.5 | 9483.9 | 9358.2 | 9889.5 | 10731.0 | 10731.0 | 9731.4 | 7336.2 | 5059.0 | 4293.6 | 3354.9 |
| 70° | 10017.0 | 10078.0 | 10277.9 | 11111.9 | 12004.8 | 11913.4 | 10443.5 | 6854.5 | 3766.1 | 2305.8 | 1319.5 |
| 72° | 9720.0 | 9657.2 | 10173.2 | 11511.7 | 12789.3 | 12638.9 | 10323.6 | 5449.3 | 2176.3 | 1011.0 | 458.9 |
| 72.5° | 9209.7 | 9268.8 | 9979.0 | 11456.5 | 12642.7 | 12766.4 | 10030.4 | 5026.6 | 1789.8 | 805.4 | 346.5 |
| 75° | 5647.3 | 5748.2 | 7448.5 | 9727.6 | 11016.6 | 10877.7 | 7758.9 | 2395.3 | 687.4 | 342.7 | 123.8 |
| 77.5° | 2062.1 | 2145.8 | 3613.8 | 6121.4 | 7835.0 | 7747.4 | 4489.7 | 851.1 | 373.2 | 255.1 | 62.8 |
| 80° | 536.9 | 580.7 | 1228.1 | 2823.7 | 4607.7 | 4613.4 | 1879.3 | 340.8 | 253.2 | 209.4 | 38.1 |
| 82.5° | 106.6 | 118.0 | 377.0 | 1098.6 | 2153.4 | 2124.9 | 594.1 | 182.8 | 190.4 | 171.4 | 26.7 |
| 85° | 13.3 | 17.1 | 80.0 | 373.2 | 696.9 | 624.5 | 146.6 | 91.4 | 140.9 | 133.3 | 17.1 |
| 87.5° | 1.9 | 1.9 | 19.0 | 85.7 | 146.6 | 142.8 | 30.5 | 28.6 | 62.8 | 81.9 | 9.5 |
| 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° | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 | 1926.9 |
| 2.5° | 1947.8 | 1955.4 | 1982.1 | 2004.9 | 2031.6 | 2039.2 | 2027.8 | 2046.8 | 2020.2 | 2035.4 | 2039.2 |
| 5° | 1951.6 | 1995.4 | 2044.9 | 2077.3 | 2069.7 | 2050.6 | 2035.4 | 1984.0 | 1947.8 | 1934.5 | 1963.0 |
| 7.5° | 1978.3 | 2027.8 | 2081.1 | 2081.1 | 2039.2 | 1940.2 | 1845.0 | 1753.6 | 1677.4 | 1639.4 | 1671.7 |
| 10° | 2012.5 | 2064.0 | 2119.2 | 2046.8 | 1890.7 | 1709.8 | 1574.6 | 1403.3 | 1287.1 | 1226.2 | 1231.9 |
| 12.5° | 2058.2 | 2130.6 | 2149.6 | 1982.1 | 1723.1 | 1454.7 | 1209.1 | 971.0 | 860.6 | 773.0 | 774.9 |
| 15° | 2117.3 | 2187.7 | 2130.6 | 1841.2 | 1509.9 | 1113.9 | 818.7 | 592.1 | 504.6 | 458.9 | 458.9 |
| 17.5° | 2195.3 | 2248.6 | 2124.9 | 1711.7 | 1222.4 | 761.6 | 502.7 | 399.8 | 380.8 | 373.2 | 373.2 |
| 20° | 2286.7 | 2326.7 | 2069.7 | 1509.9 | 908.2 | 489.3 | 369.4 | 358.0 | 359.9 | 356.1 | 356.1 |
| 22.5° | 2389.5 | 2402.9 | 2006.8 | 1275.7 | 615.0 | 361.8 | 344.6 | 346.5 | 348.4 | 344.6 | 346.5 |
| 25° | 2498.1 | 2461.9 | 1915.4 | 1001.5 | 409.4 | 329.4 | 333.2 | 337.0 | 338.9 | 340.8 | 340.8 |
| 27.5° | 2619.9 | 2547.6 | 1787.9 | 733.0 | 319.9 | 310.4 | 321.8 | 333.2 | 335.1 | 335.1 | 333.2 |
| 30° | 2798.9 | 2679.0 | 1664.1 | 496.9 | 281.8 | 289.4 | 308.5 | 321.8 | 331.3 | 331.3 | 329.4 |
| 32.5° | 3025.5 | 2816.0 | 1490.8 | 338.9 | 260.9 | 264.7 | 279.9 | 306.5 | 327.5 | 329.4 | 323.7 |
| 35° | 3339.6 | 2981.7 | 1310.0 | 270.4 | 245.6 | 247.5 | 257.0 | 278.0 | 314.2 | 325.6 | 323.7 |
| 37.5° | 3670.9 | 3170.2 | 1085.3 | 243.7 | 234.2 | 232.3 | 238.0 | 255.1 | 287.5 | 316.1 | 318.0 |
| 40° | 4023.2 | 3368.2 | 849.2 | 230.4 | 224.7 | 220.9 | 222.8 | 230.4 | 255.1 | 291.3 | 298.9 |
| 42.5° | 4354.5 | 3547.2 | 637.8 | 217.1 | 215.2 | 211.3 | 211.3 | 213.3 | 226.6 | 251.3 | 255.1 |
| 45° | 4712.4 | 3693.8 | 485.5 | 207.5 | 201.8 | 203.7 | 196.1 | 192.3 | 201.8 | 203.7 | 201.8 |
| 47.5° | 5047.6 | 3840.4 | 388.4 | 196.1 | 190.4 | 190.4 | 180.9 | 173.3 | 173.3 | 156.1 | 154.2 |
| 50° | 5361.7 | 3920.4 | 310.4 | 180.9 | 179.0 | 177.1 | 163.7 | 150.4 | 139.0 | 118.0 | 114.2 |
| 52.5° | 5622.6 | 3916.6 | 239.9 | 161.8 | 167.6 | 161.8 | 140.9 | 121.9 | 104.7 | 85.7 | 81.9 |
| 55° | 5700.6 | 3733.8 | 180.9 | 133.3 | 142.8 | 135.2 | 112.3 | 95.2 | 76.2 | 60.9 | 59.0 |
| 57.5° | 5634.0 | 3455.8 | 137.1 | 102.8 | 110.4 | 102.8 | 85.7 | 70.4 | 53.3 | 41.9 | 38.1 |
| 60° | 5411.2 | 3130.2 | 106.6 | 80.0 | 83.8 | 78.1 | 64.7 | 53.3 | 38.1 | 26.7 | 22.8 |
| 62.5° | 4988.5 | 2722.7 | 81.9 | 62.8 | 60.9 | 60.9 | 49.5 | 40.0 | 26.7 | 15.2 | 13.3 |
| 65° | 4093.6 | 2123.0 | 62.8 | 43.8 | 43.8 | 43.8 | 38.1 | 28.6 | 17.1 | 7.6 | 3.8 |
| 67.5° | 2570.4 | 1235.7 | 51.4 | 34.3 | 32.4 | 32.4 | 26.7 | 19.0 | 9.5 | 1.9 | 0.0 |
| 70° | 967.2 | 453.2 | 40.0 | 26.7 | 24.8 | 24.8 | 19.0 | 11.4 | 5.7 | 0.0 | 0.0 |
| 72° | 333.2 | 173.3 | 32.4 | 19.0 | 19.0 | 17.1 | 13.3 | 9.5 | 3.8 | 0.0 | 0.0 |
| 72.5° | 274.2 | 139.0 | 30.5 | 19.0 | 17.1 | 17.1 | 13.3 | 9.5 | 3.8 | 0.0 | 0.0 |
| 75° | 99.0 | 57.1 | 20.9 | 13.3 | 11.4 | 11.4 | 9.5 | 5.7 | 1.9 | 0.0 | 0.0 |
| 77.5° | 49.5 | 36.2 | 17.1 | 11.4 | 9.5 | 5.7 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 |
| 80° | 30.5 | 22.8 | 9.5 | 7.6 | 5.7 | 3.8 | 1.9 | 1.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.9 | 13.3 | 5.7 | 5.7 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.3 | 5.7 | 3.8 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.7 | 3.8 | 1.9 | 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)