

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: P565260

Luminaire Tested: **IFLD-L-SA8A-AMB-U-T2**

Issue Date: 09/02/2021



Test Information

Test Method: LM-79-08
Report Number: P565260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/02/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-T2
Description: STREETWORKS INFRASTRUCTURE FLOOD-- Middle Tier Light Square
Luminaire w/ T2 distribution lens
Light Source: (128) AMB CCT, -- CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

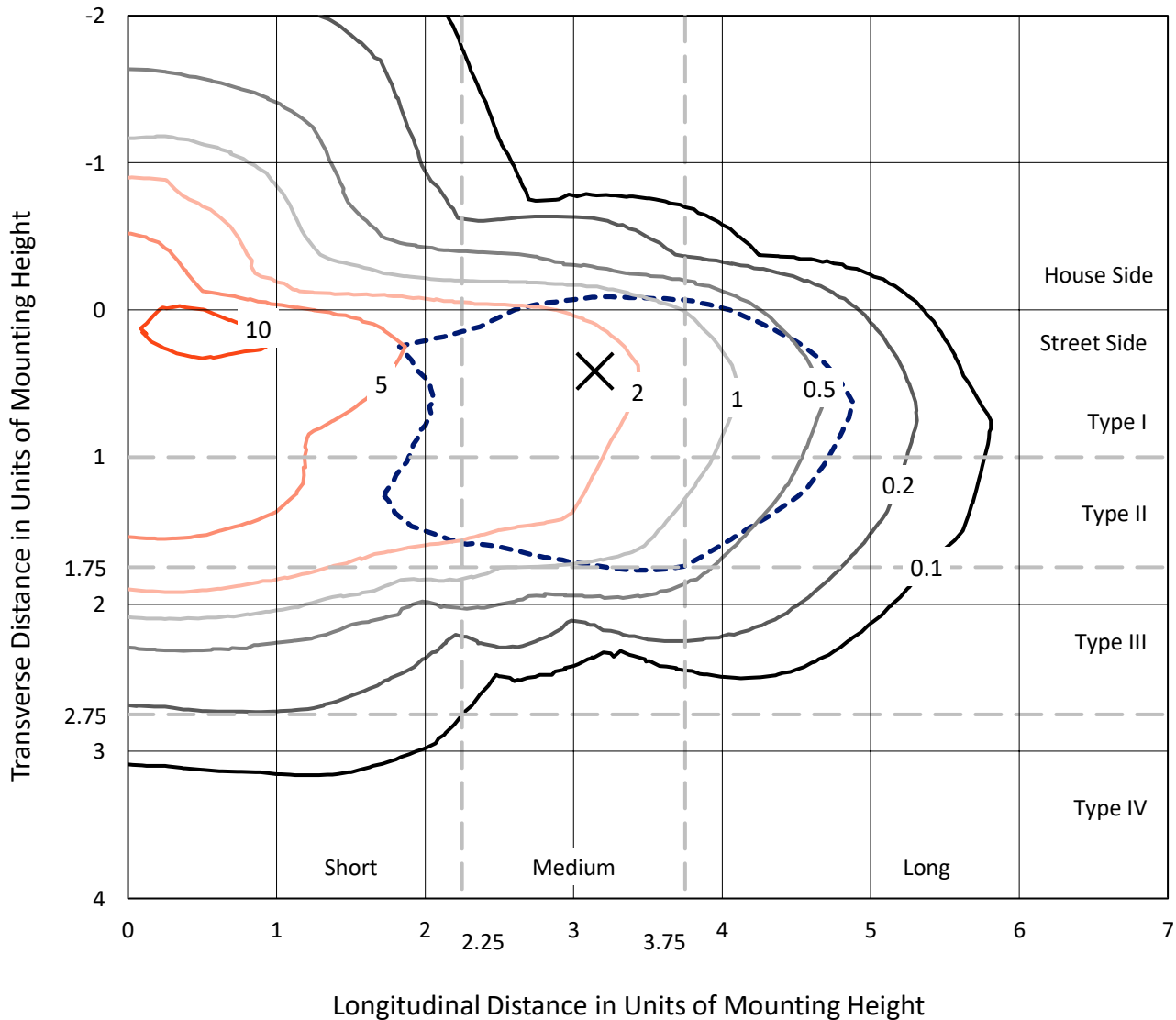
Lumens per Lamp: N/A
Luminaire Lumens: 8131.6 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 160
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

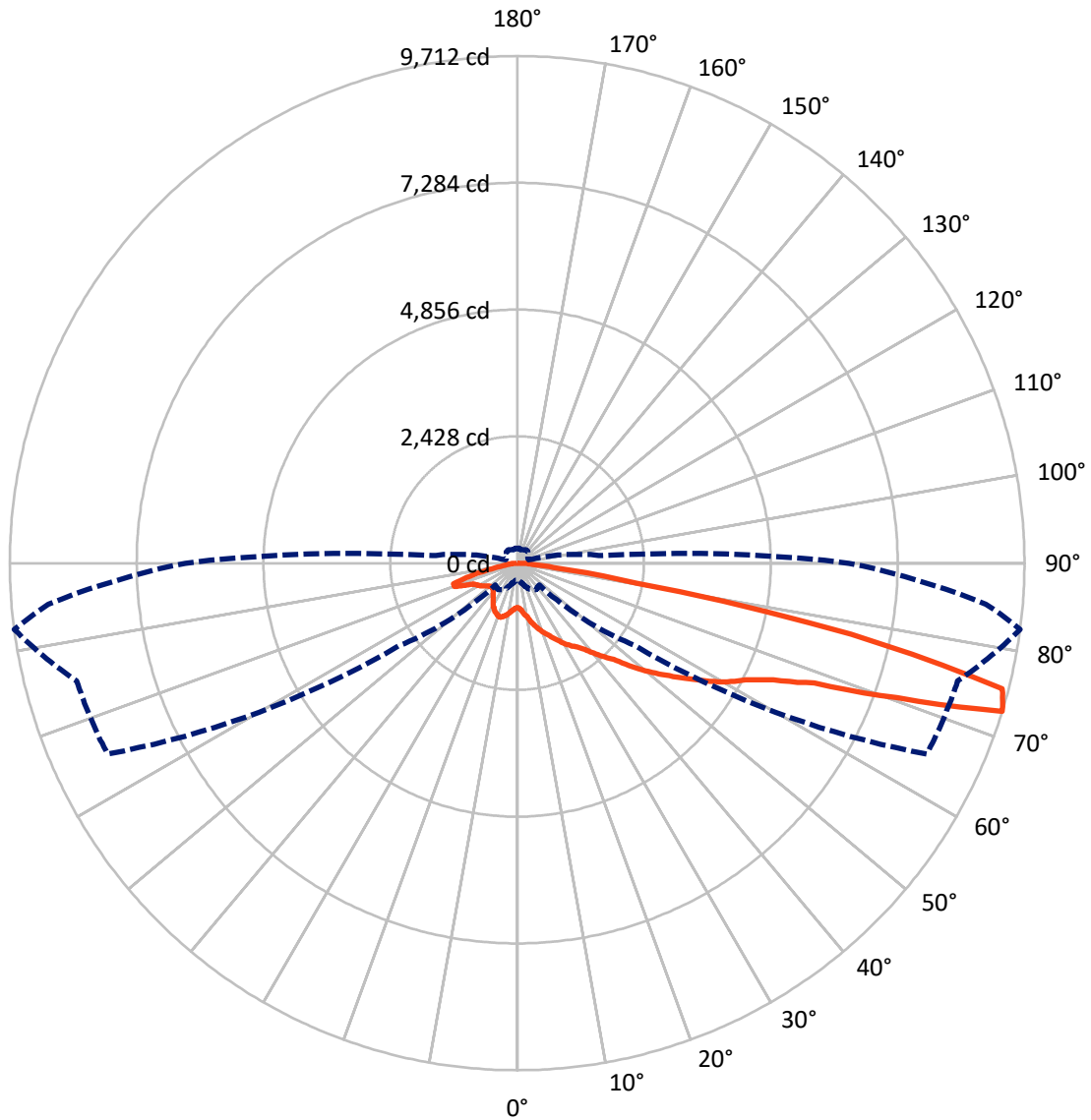
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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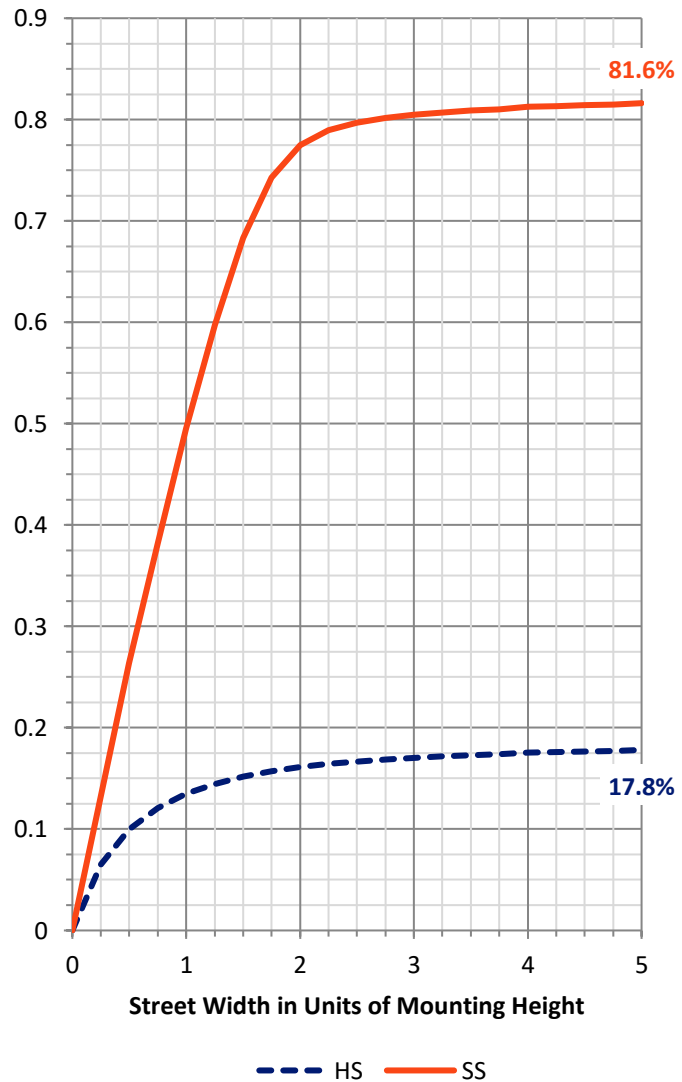
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1474.4 | 0.0 | 1474.4 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 6657.2 | 0.0 | 6657.2 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 8131.6 | 0.0 | 8131.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.8 | 1.1 |
| 10°-20° | 286.2 | 3.5 |
| 20°-30° | 488.3 | 6.0 |
| 30°-40° | 728.9 | 9.0 |
| 40°-50° | 1138.8 | 14.0 |
| 50°-60° | 1677.4 | 20.6 |
| 60°-70° | 1955.2 | 24.0 |
| 70°-80° | 1589.9 | 19.6 |
| 80°-90° | 179.2 | 2.2 |
| 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° | 8131.6 | 100.0 |
| 0°-180° | 8131.6 | 100.0 |

Coefficient of Utilization

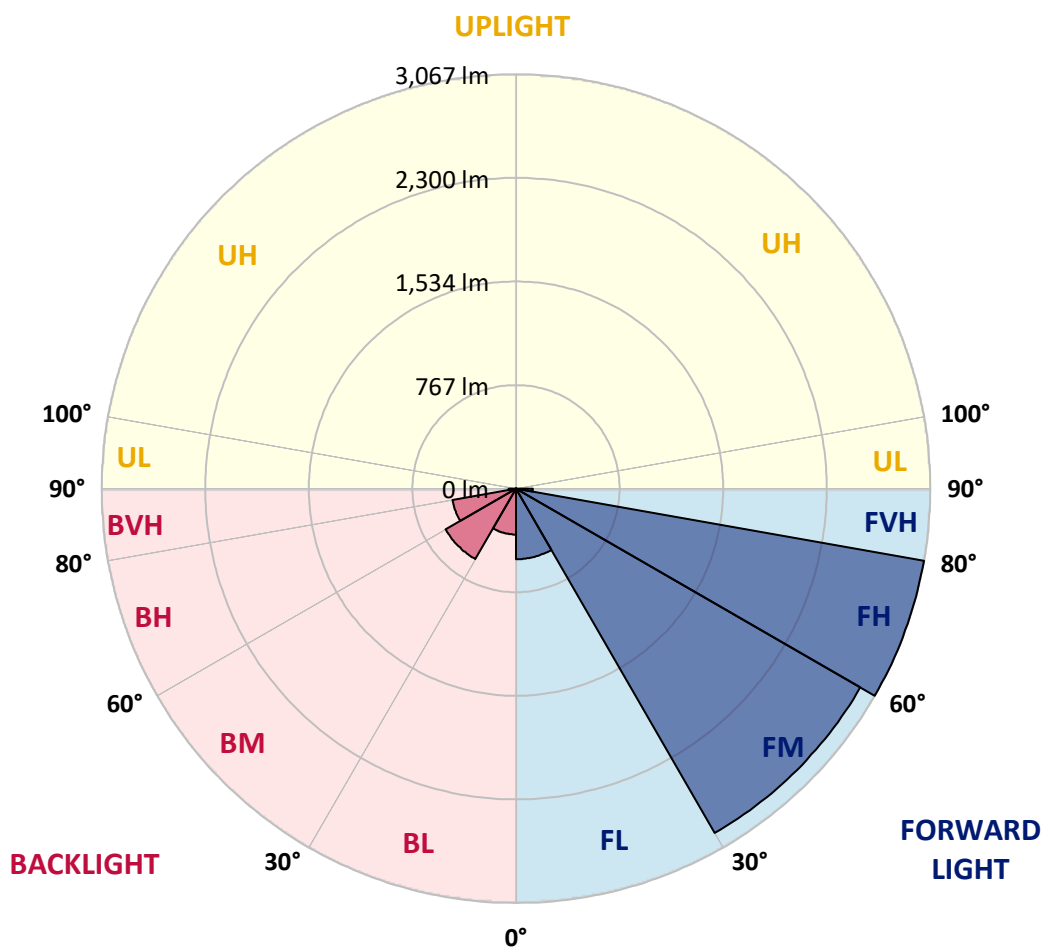


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 522.6 | 6.4 | | | |
| FM (30°-60°) | 2943.0 | 36.2 | | | |
| FH (60°-80°) | 3067.3 | 37.7 | | | G2/5000 |
| FVH (80°-90°) | 124.3 | 1.5 | | | G2/225 |
| BL (0°-30°) | 339.7 | 4.2 | B1/500 | | |
| BM (30°-60°) | 602.1 | 7.4 | B1/1000 | | |
| BH (60°-80°) | 477.8 | 5.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 54.9 | 0.7 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82.5° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 |
| 2.5° | 915.3 | 923.4 | 919.4 | 915.3 | 915.3 | 907.2 | 899.1 | 895.1 | 887.0 | 870.8 | 874.8 |
| 5° | 963.9 | 972.0 | 980.1 | 972.0 | 976.1 | 976.1 | 972.0 | 943.7 | 927.5 | 911.3 | 911.3 |
| 7.5° | 968.0 | 976.1 | 984.2 | 1004.4 | 1016.6 | 1024.7 | 1032.8 | 1020.6 | 988.2 | 984.2 | 972.0 |
| 10° | 1000.4 | 1000.4 | 1004.4 | 1024.7 | 1053.0 | 1073.3 | 1109.7 | 1109.7 | 1069.2 | 1040.9 | 1049.0 |
| 12.5° | 1020.6 | 1012.5 | 1032.8 | 1053.0 | 1085.4 | 1125.9 | 1170.5 | 1174.5 | 1162.4 | 1146.2 | 1134.0 |
| 15° | 980.1 | 984.2 | 1008.5 | 1049.0 | 1134.0 | 1174.5 | 1235.3 | 1271.7 | 1275.8 | 1231.2 | 1206.9 |
| 17.5° | 955.8 | 963.9 | 992.3 | 1028.7 | 1109.7 | 1202.9 | 1300.1 | 1377.0 | 1385.1 | 1320.3 | 1312.2 |
| 20° | 980.1 | 980.1 | 984.2 | 1032.8 | 1109.7 | 1215.0 | 1348.7 | 1433.7 | 1494.5 | 1409.4 | 1389.2 |
| 22.5° | 1032.8 | 1028.7 | 1040.9 | 1053.0 | 1105.7 | 1219.1 | 1389.2 | 1502.6 | 1559.3 | 1490.4 | 1445.9 |
| 25° | 1117.8 | 1134.0 | 1125.9 | 1130.0 | 1162.4 | 1231.2 | 1409.4 | 1579.5 | 1664.6 | 1583.6 | 1526.9 |
| 27.5° | 1219.1 | 1227.2 | 1243.4 | 1239.3 | 1243.4 | 1300.1 | 1462.1 | 1660.5 | 1802.3 | 1680.8 | 1603.8 |
| 30° | 1316.3 | 1344.6 | 1352.7 | 1364.9 | 1360.8 | 1373.0 | 1494.5 | 1733.4 | 1903.5 | 1786.1 | 1676.7 |
| 32.5° | 1421.6 | 1425.6 | 1482.3 | 1462.1 | 1466.1 | 1478.3 | 1567.4 | 1778.0 | 1992.6 | 1887.3 | 1773.9 |
| 35° | 1620.0 | 1628.1 | 1632.2 | 1607.9 | 1607.9 | 1579.5 | 1664.6 | 1830.6 | 2110.1 | 1968.3 | 1875.2 |
| 37.5° | 1871.1 | 1923.8 | 1891.4 | 1769.9 | 1725.3 | 1701.0 | 1717.2 | 1895.4 | 2255.9 | 2102.0 | 1972.4 |
| 40° | 2134.4 | 2138.4 | 2118.2 | 2008.8 | 1895.4 | 1863.0 | 1846.8 | 1992.6 | 2393.6 | 2268.0 | 2138.4 |
| 42.5° | 2328.8 | 2345.0 | 2357.1 | 2247.8 | 2110.1 | 2057.4 | 2012.9 | 2122.2 | 2608.2 | 2454.3 | 2304.5 |
| 45° | 2458.4 | 2507.0 | 2507.0 | 2470.5 | 2349.0 | 2336.9 | 2199.2 | 2276.1 | 2786.4 | 2652.8 | 2502.9 |
| 47.5° | 2608.2 | 2689.2 | 2660.9 | 2620.4 | 2523.2 | 2555.6 | 2357.1 | 2434.1 | 3009.2 | 2964.6 | 2750.0 |
| 50° | 2750.0 | 2806.7 | 2835.0 | 2778.3 | 2713.5 | 2835.0 | 2523.2 | 2608.2 | 3296.7 | 3264.3 | 2952.5 |
| 52.5° | 2984.9 | 3045.6 | 3061.8 | 2968.7 | 2899.8 | 3053.7 | 2677.1 | 2810.7 | 3543.8 | 3564.0 | 3207.6 |
| 55° | 3171.2 | 3244.1 | 3361.5 | 3280.5 | 3264.3 | 3094.2 | 2790.5 | 3069.9 | 3794.9 | 3892.1 | 3543.8 |
| 57.5° | 3110.4 | 3223.8 | 3430.4 | 3543.8 | 3717.9 | 3402.0 | 2916.0 | 3406.1 | 4017.6 | 4252.5 | 3859.7 |
| 60° | 2721.6 | 2822.9 | 3082.1 | 3479.0 | 3847.5 | 3888.0 | 3227.9 | 3645.0 | 4260.6 | 4621.1 | 4147.2 |
| 62.5° | 1871.1 | 2012.9 | 2393.6 | 3005.1 | 3669.3 | 4155.3 | 4005.5 | 4001.4 | 4483.4 | 4912.7 | 4507.7 |
| 65° | 1004.4 | 1101.6 | 1324.4 | 1826.6 | 2851.2 | 4078.4 | 4884.3 | 4714.2 | 4726.4 | 5390.6 | 4916.7 |
| 67.5° | 603.5 | 639.9 | 781.7 | 1032.8 | 1510.7 | 3069.9 | 5423.0 | 6621.8 | 5325.8 | 6131.7 | 5585.0 |
| 70° | 441.5 | 453.6 | 567.0 | 725.0 | 814.1 | 1385.1 | 4957.2 | 8310.7 | 6860.8 | 7719.4 | 7282.0 |
| 72.5° | 320.0 | 332.1 | 409.1 | 546.8 | 623.7 | 595.4 | 2762.1 | 8650.9 | 8727.8 | 9712.0 | 9011.3 |
| 75° | 251.1 | 255.2 | 291.6 | 417.2 | 494.1 | 417.2 | 858.6 | 6593.5 | 8711.6 | 9594.5 | 8821.0 |
| 77.5° | 202.5 | 202.5 | 226.8 | 307.8 | 384.8 | 324.0 | 384.8 | 3312.9 | 5512.1 | 6536.8 | 5779.4 |
| 80° | 162.0 | 166.1 | 178.2 | 202.5 | 275.4 | 234.9 | 283.5 | 1049.0 | 2191.1 | 2320.7 | 1887.3 |
| 82.5° | 129.6 | 129.6 | 137.7 | 145.8 | 202.5 | 158.0 | 190.4 | 461.7 | 826.2 | 700.7 | 550.8 |
| 85° | 64.8 | 64.8 | 129.6 | 117.5 | 125.6 | 101.3 | 101.3 | 303.8 | 437.4 | 287.6 | 226.8 |
| 87.5° | 16.2 | 16.2 | 32.4 | 48.6 | 60.8 | 44.6 | 40.5 | 117.5 | 198.5 | 113.4 | 77.0 |
| 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° | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 | 850.5 |
| 2.5° | 874.8 | 862.7 | 854.6 | 850.5 | 842.4 | 834.3 | 826.2 | 822.2 | 826.2 | 822.2 | 810.0 |
| 5° | 907.2 | 895.1 | 887.0 | 870.8 | 850.5 | 842.4 | 842.4 | 838.4 | 830.3 | 826.2 | 822.2 |
| 7.5° | 951.8 | 935.6 | 907.2 | 878.9 | 866.7 | 842.4 | 830.3 | 826.2 | 826.2 | 814.1 | 814.1 |
| 10° | 1016.6 | 988.2 | 935.6 | 887.0 | 854.6 | 822.2 | 814.1 | 810.0 | 814.1 | 801.9 | 818.1 |
| 12.5° | 1093.5 | 1044.9 | 947.7 | 862.7 | 822.2 | 810.0 | 818.1 | 826.2 | 838.4 | 834.3 | 838.4 |
| 15° | 1158.3 | 1097.6 | 931.5 | 822.2 | 801.9 | 814.1 | 830.3 | 842.4 | 858.6 | 858.6 | 850.5 |
| 17.5° | 1235.3 | 1146.2 | 899.1 | 789.8 | 781.7 | 801.9 | 830.3 | 846.5 | 854.6 | 862.7 | 870.8 |
| 20° | 1300.1 | 1158.3 | 850.5 | 749.3 | 765.5 | 781.7 | 806.0 | 838.4 | 854.6 | 866.7 | 870.8 |
| 22.5° | 1344.6 | 1130.0 | 785.7 | 708.8 | 725.0 | 725.0 | 757.4 | 801.9 | 838.4 | 858.6 | 850.5 |
| 25° | 1381.1 | 1125.9 | 720.9 | 676.4 | 680.4 | 672.3 | 704.7 | 749.3 | 777.6 | 801.9 | 797.9 |
| 27.5° | 1437.8 | 1065.2 | 676.4 | 635.9 | 615.6 | 623.7 | 656.1 | 680.4 | 688.5 | 700.7 | 712.8 |
| 30° | 1458.0 | 1036.8 | 631.8 | 579.2 | 567.0 | 571.1 | 587.3 | 595.4 | 591.3 | 583.2 | 599.4 |
| 32.5° | 1494.5 | 955.8 | 587.3 | 534.6 | 526.5 | 530.6 | 530.6 | 526.5 | 522.5 | 510.3 | 518.4 |
| 35° | 1530.9 | 899.1 | 558.9 | 506.3 | 502.2 | 506.3 | 498.2 | 490.1 | 477.9 | 465.8 | 469.8 |
| 37.5° | 1559.3 | 838.4 | 530.6 | 486.0 | 494.1 | 486.0 | 477.9 | 469.8 | 477.9 | 457.7 | 457.7 |
| 40° | 1595.7 | 797.9 | 502.2 | 473.9 | 486.0 | 482.0 | 461.7 | 457.7 | 518.4 | 526.5 | 530.6 |
| 42.5° | 1632.2 | 749.3 | 469.8 | 477.9 | 477.9 | 469.8 | 449.6 | 441.5 | 510.3 | 469.8 | 469.8 |
| 45° | 1709.1 | 741.2 | 457.7 | 469.8 | 473.9 | 461.7 | 453.6 | 445.5 | 457.7 | 405.0 | 405.0 |
| 47.5° | 1818.5 | 737.1 | 461.7 | 457.7 | 461.7 | 465.8 | 457.7 | 429.3 | 417.2 | 368.6 | 364.5 |
| 50° | 1948.1 | 757.4 | 465.8 | 441.5 | 457.7 | 461.7 | 433.4 | 405.0 | 388.8 | 364.5 | 360.5 |
| 52.5° | 2122.2 | 785.7 | 477.9 | 425.3 | 445.5 | 445.5 | 421.2 | 396.9 | 372.6 | 356.4 | 352.4 |
| 55° | 2328.8 | 842.4 | 473.9 | 396.9 | 417.2 | 437.4 | 417.2 | 376.7 | 368.6 | 360.5 | 360.5 |
| 57.5° | 2567.7 | 915.3 | 469.8 | 372.6 | 392.9 | 425.3 | 405.0 | 372.6 | 356.4 | 356.4 | 356.4 |
| 60° | 2794.5 | 976.1 | 449.6 | 336.2 | 368.6 | 417.2 | 396.9 | 368.6 | 348.3 | 348.3 | 344.3 |
| 62.5° | 3021.3 | 1040.9 | 409.1 | 311.9 | 340.2 | 392.9 | 384.8 | 352.4 | 332.1 | 344.3 | 340.2 |
| 65° | 3353.4 | 1117.8 | 352.4 | 283.5 | 315.9 | 372.6 | 368.6 | 336.2 | 315.9 | 344.3 | 344.3 |
| 67.5° | 4021.7 | 1340.6 | 299.7 | 267.3 | 291.6 | 348.3 | 348.3 | 320.0 | 303.8 | 344.3 | 336.2 |
| 70° | 5321.7 | 1616.0 | 267.3 | 251.1 | 271.4 | 320.0 | 328.1 | 303.8 | 287.6 | 328.1 | 311.9 |
| 72.5° | 6354.5 | 1632.2 | 234.9 | 226.8 | 247.1 | 295.7 | 303.8 | 287.6 | 267.3 | 287.6 | 275.4 |
| 75° | 5799.6 | 1186.7 | 206.6 | 202.5 | 214.7 | 263.3 | 279.5 | 267.3 | 239.0 | 247.1 | 239.0 |
| 77.5° | 3535.7 | 704.7 | 178.2 | 178.2 | 186.3 | 234.9 | 243.0 | 230.9 | 210.6 | 210.6 | 202.5 |
| 80° | 1032.8 | 299.7 | 149.9 | 149.9 | 153.9 | 198.5 | 202.5 | 194.4 | 174.2 | 170.1 | 170.1 |
| 82.5° | 332.1 | 182.3 | 125.6 | 117.5 | 113.4 | 162.0 | 178.2 | 166.1 | 145.8 | 137.7 | 133.7 |
| 85° | 162.0 | 113.4 | 89.1 | 81.0 | 81.0 | 129.6 | 133.7 | 109.4 | 89.1 | 81.0 | 81.0 |
| 87.5° | 52.7 | 48.6 | 44.6 | 32.4 | 32.4 | 60.8 | 64.8 | 48.6 | 40.5 | 32.4 | 32.4 |
| 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)