

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: P480825

Luminaire Tested: **IFLD-S-SA6C-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480825
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

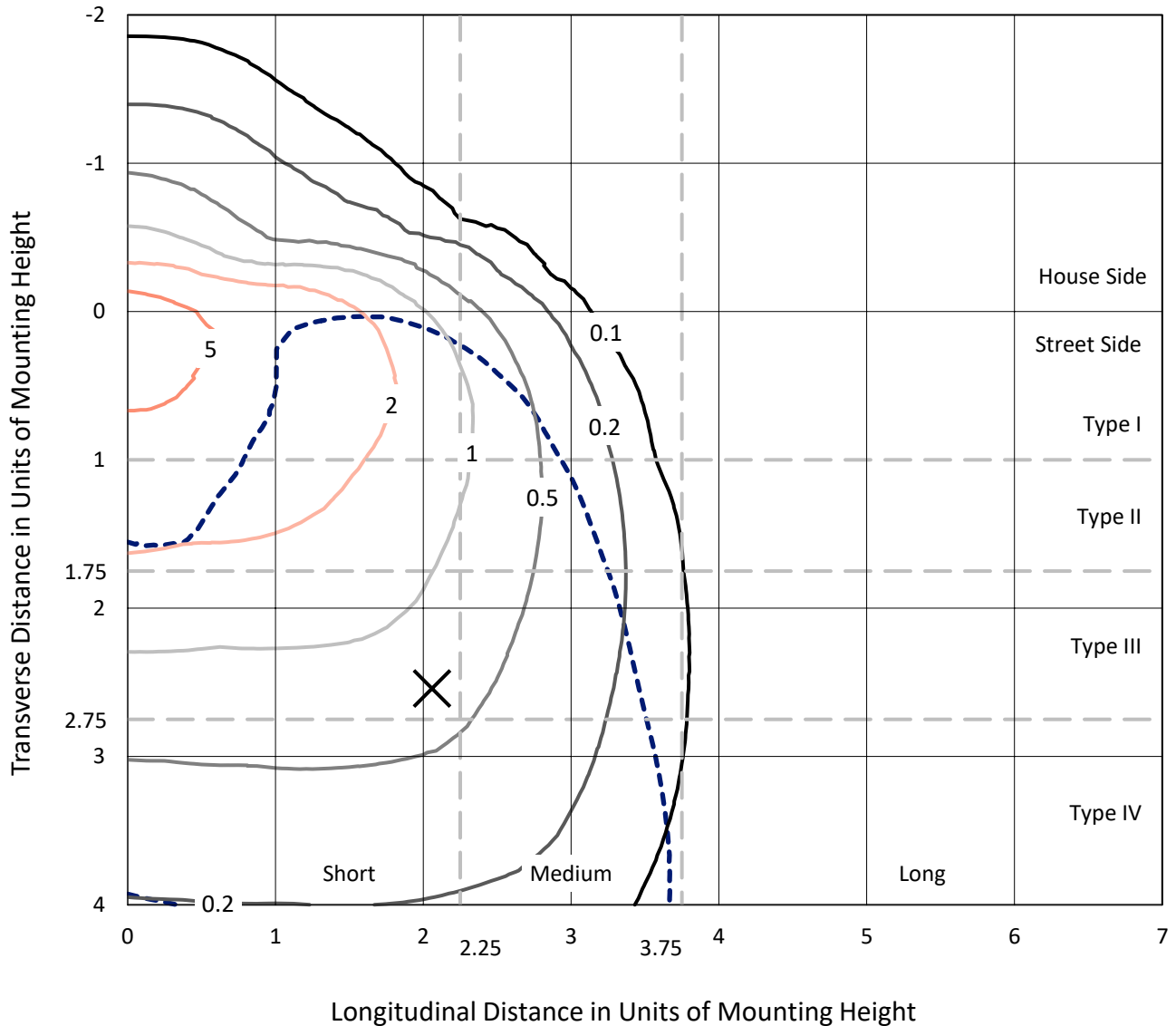
Lumens per Lamp: N/A
Luminaire Lumens: 36599.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

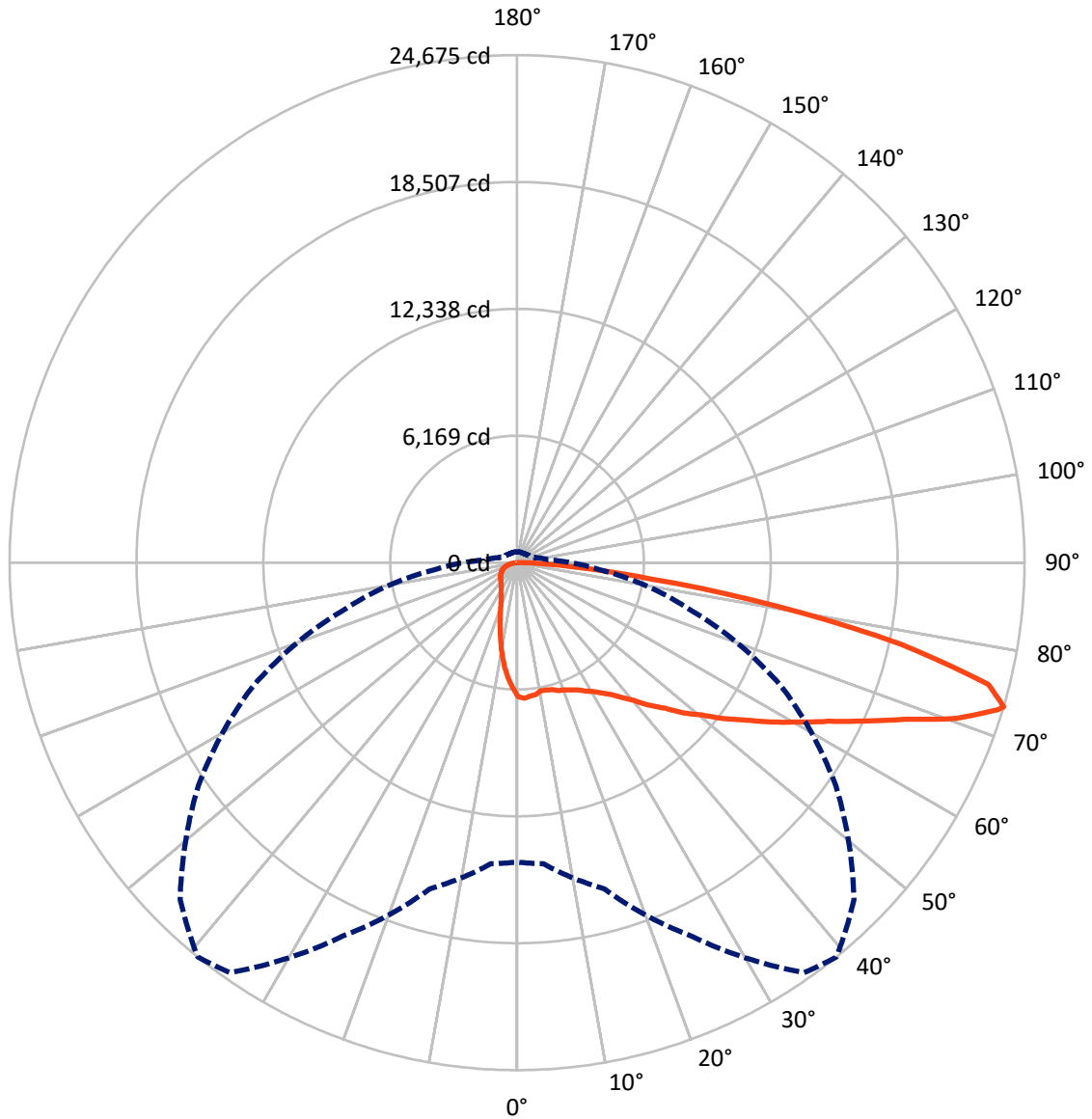
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5144.8 | 0.0 | 5144.8 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 31454.3 | 0.0 | 31454.3 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 36599.1 | 0.0 | 36599.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 565.5 | 1.5 |
| 10°-20° | 1437.7 | 3.9 |
| 20°-30° | 2196.9 | 6.0 |
| 30°-40° | 3203.2 | 8.8 |
| 40°-50° | 4840.4 | 13.2 |
| 50°-60° | 7009.1 | 19.2 |
| 60°-70° | 8905.5 | 24.3 |
| 70°-80° | 7219.2 | 19.7 |
| 80°-90° | 1221.5 | 3.3 |
| 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° | 36599.1 | 100.0 |
| 0°-180° | 36599.1 | 100.0 |

Coefficient of Utilization



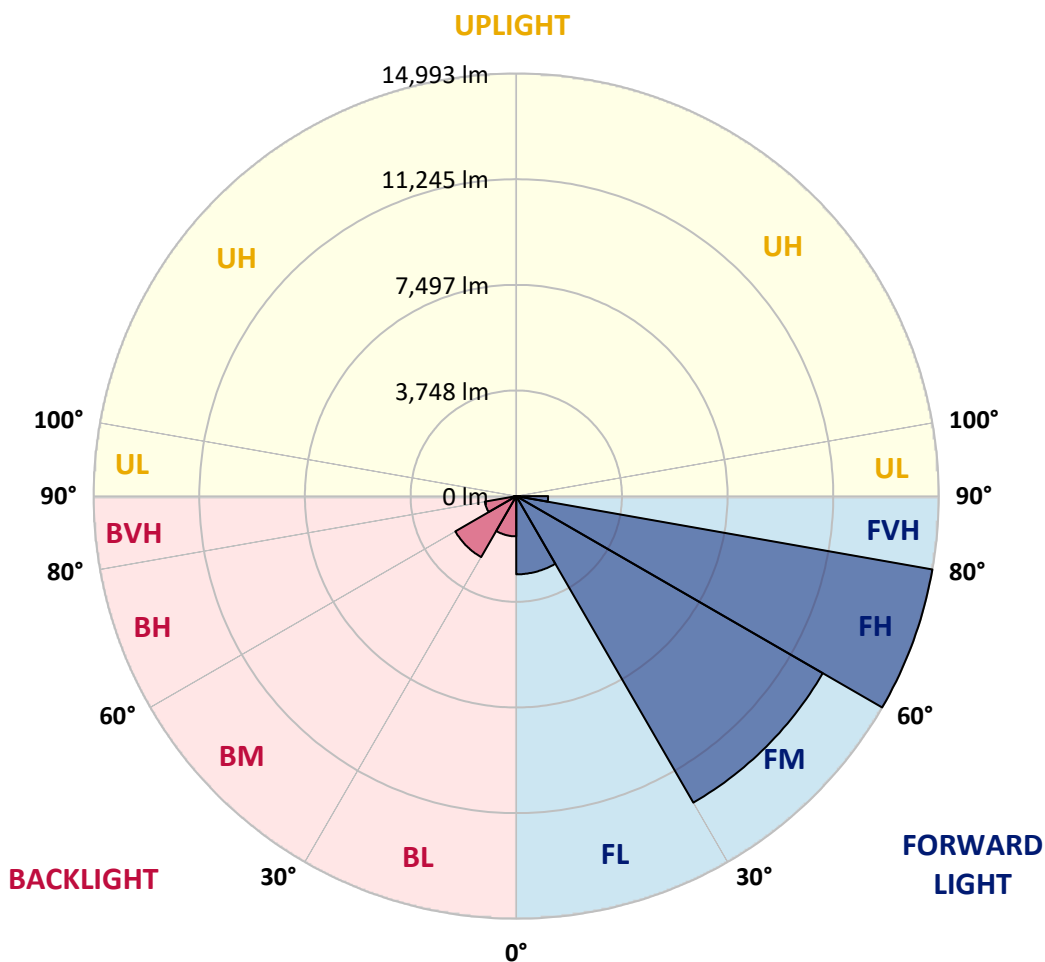
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2773.4 | 7.6 | | | |
| FM (30°-60°) | 12555.8 | 34.3 | | | |
| FH (60°-80°) | 14993.2 | 41.0 | | | G5 |
| FVH (80°-90°) | 1131.8 | 3.1 | | | G5 |
| BL (0°-30°) | 1426.8 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 2496.9 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 1131.5 | 3.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.6 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 |
| 2.5° | 6670.5 | 6600.8 | 6613.1 | 6588.6 | 6613.1 | 6604.9 | 6592.7 | 6531.2 | 6592.7 | 6531.2 | 6514.9 |
| 5° | 6580.4 | 6580.4 | 6621.3 | 6559.9 | 6568.1 | 6527.1 | 6568.1 | 6523.0 | 6482.1 | 6379.7 | 6351.1 |
| 7.5° | 6551.7 | 6547.6 | 6551.7 | 6465.7 | 6506.7 | 6482.1 | 6441.1 | 6392.0 | 6310.1 | 6244.6 | 6150.4 |
| 10° | 6355.2 | 6396.1 | 6351.1 | 6375.6 | 6408.4 | 6334.7 | 6330.6 | 6318.3 | 6281.4 | 6195.5 | 6138.1 |
| 12.5° | 6248.7 | 6318.3 | 6342.9 | 6322.4 | 6351.1 | 6359.3 | 6334.7 | 6318.3 | 6273.3 | 6215.9 | 6052.1 |
| 15° | 6293.7 | 6211.8 | 6281.4 | 6416.6 | 6387.9 | 6408.4 | 6412.5 | 6396.1 | 6375.6 | 6269.2 | 6162.7 |
| 17.5° | 6306.0 | 6256.9 | 6404.3 | 6433.0 | 6469.8 | 6543.5 | 6494.4 | 6490.3 | 6412.5 | 6338.8 | 6183.2 |
| 20° | 6334.7 | 6314.2 | 6433.0 | 6584.5 | 6588.6 | 6600.8 | 6625.4 | 6564.0 | 6523.0 | 6396.1 | 6158.6 |
| 22.5° | 6441.1 | 6510.8 | 6621.3 | 6686.8 | 6723.7 | 6731.9 | 6731.9 | 6609.0 | 6564.0 | 6461.6 | 6273.3 |
| 25° | 6760.5 | 6686.8 | 6842.4 | 6920.2 | 6867.0 | 6854.7 | 6826.1 | 6715.5 | 6666.4 | 6576.3 | 6326.5 |
| 27.5° | 6993.9 | 6989.9 | 7079.9 | 7186.4 | 7043.1 | 7071.7 | 6969.4 | 6936.6 | 6826.1 | 6776.9 | 6420.7 |
| 30° | 7313.3 | 7403.4 | 7399.3 | 7432.1 | 7243.7 | 7276.5 | 7145.5 | 7084.0 | 7022.6 | 7051.3 | 6699.1 |
| 32.5° | 7722.8 | 7690.1 | 7743.3 | 7718.7 | 7530.4 | 7559.0 | 7403.4 | 7309.2 | 7329.7 | 7415.7 | 7079.9 |
| 35° | 7984.9 | 7952.1 | 7972.6 | 7972.6 | 7915.3 | 7882.5 | 7817.0 | 7694.2 | 7792.4 | 7952.1 | 7505.8 |
| 37.5° | 8267.4 | 8308.4 | 8427.1 | 8402.6 | 8328.9 | 8328.9 | 8320.7 | 8234.7 | 8361.6 | 8754.7 | 8185.5 |
| 40° | 8517.2 | 8627.8 | 8701.5 | 8750.6 | 8836.6 | 8836.6 | 8906.2 | 8857.1 | 9086.4 | 9717.0 | 9016.8 |
| 42.5° | 8779.3 | 8783.4 | 9184.7 | 9221.5 | 9414.0 | 9495.9 | 9549.1 | 9590.1 | 10020.0 | 10724.3 | 9905.4 |
| 45° | 9115.1 | 9135.5 | 9487.7 | 9770.2 | 10069.2 | 10097.8 | 10298.5 | 10433.6 | 10961.8 | 11825.8 | 10871.7 |
| 47.5° | 9557.3 | 9532.7 | 9909.5 | 10359.9 | 10732.5 | 10929.1 | 11170.7 | 11318.1 | 11969.2 | 13021.5 | 11928.2 |
| 50° | 10138.8 | 10065.1 | 10282.1 | 10990.5 | 11428.6 | 11645.7 | 12075.6 | 12321.3 | 13082.9 | 14164.0 | 12653.0 |
| 52.5° | 10847.2 | 10724.3 | 10896.3 | 11670.2 | 12161.6 | 12599.8 | 13009.2 | 13283.6 | 14078.0 | 15048.5 | 13189.4 |
| 55° | 11596.5 | 11342.6 | 11391.8 | 12390.9 | 13099.3 | 13512.9 | 14073.9 | 14360.5 | 15171.3 | 15842.8 | 13725.8 |
| 57.5° | 12337.7 | 12178.0 | 12079.7 | 13082.9 | 14217.2 | 14614.4 | 15130.4 | 15503.0 | 16190.9 | 16547.2 | 14180.4 |
| 60° | 12960.1 | 12919.1 | 12759.5 | 14155.8 | 15400.6 | 15740.5 | 16281.0 | 16510.3 | 17030.3 | 17198.2 | 14188.5 |
| 62.5° | 13471.9 | 13332.7 | 13586.6 | 15019.8 | 16604.5 | 16989.4 | 17583.1 | 17603.6 | 17972.2 | 17603.6 | 13770.9 |
| 65° | 13873.2 | 13881.4 | 14286.8 | 16064.0 | 17996.7 | 18565.9 | 19045.0 | 18991.8 | 18754.3 | 17362.0 | 12784.0 |
| 67.5° | 14237.7 | 14393.3 | 14987.0 | 17210.5 | 19786.2 | 20322.6 | 20854.9 | 20150.6 | 18967.2 | 16231.9 | 10855.4 |
| 70° | 14524.3 | 14679.9 | 15932.9 | 18606.9 | 21895.0 | 22681.2 | 22799.9 | 20609.2 | 17988.5 | 13750.4 | 8189.6 |
| 72.5° | 14491.6 | 14774.1 | 16469.4 | 19720.6 | 23766.3 | 24446.1 | 23487.9 | 19319.3 | 14987.0 | 9586.0 | 4778.7 |
| 73° | 14561.2 | 14700.4 | 16424.3 | 20031.8 | 24335.5 | 24675.4 | 23168.5 | 18914.0 | 14135.3 | 8599.1 | 4041.6 |
| 75° | 13218.1 | 13689.0 | 15609.4 | 19524.1 | 23725.4 | 23663.9 | 21334.0 | 15761.0 | 10048.7 | 4516.6 | 1957.3 |
| 77.5° | 9778.4 | 10077.3 | 12300.8 | 16055.8 | 19475.0 | 19081.8 | 16092.6 | 10073.3 | 4770.5 | 1674.8 | 1056.5 |
| 80° | 4778.7 | 5012.1 | 6518.9 | 9270.7 | 12734.9 | 12767.6 | 9987.3 | 5241.4 | 2043.3 | 945.9 | 720.7 |
| 82.5° | 2387.3 | 2526.5 | 3132.5 | 4074.3 | 6265.1 | 6564.0 | 5065.3 | 2981.0 | 1265.3 | 536.4 | 409.5 |
| 85° | 1560.1 | 1658.4 | 1928.7 | 1994.2 | 2657.5 | 2804.9 | 2358.6 | 2325.9 | 823.1 | 290.7 | 331.7 |
| 87.5° | 1036.0 | 1052.4 | 1183.4 | 1007.3 | 1064.7 | 1023.7 | 1138.4 | 1465.9 | 241.6 | 122.8 | 90.1 |
| 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° | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 | 6514.9 |
| 2.5° | 6494.4 | 6437.1 | 6375.6 | 6289.6 | 6228.2 | 6134.0 | 6048.0 | 6011.2 | 6003.0 | 6007.1 | 5966.1 |
| 5° | 6326.5 | 6244.6 | 6121.8 | 5945.7 | 5843.3 | 5687.7 | 5556.7 | 5487.1 | 5413.3 | 5425.6 | 5392.9 |
| 7.5° | 6093.1 | 6003.0 | 5814.6 | 5609.9 | 5356.0 | 5134.9 | 5012.1 | 4840.1 | 4741.8 | 4668.1 | 4709.0 |
| 10° | 6019.4 | 5863.8 | 5581.2 | 5298.7 | 4905.6 | 4614.9 | 4332.3 | 4135.8 | 4000.6 | 3869.6 | 3926.9 |
| 12.5° | 5982.5 | 5826.9 | 5433.8 | 5016.2 | 4508.4 | 4066.2 | 3669.0 | 3427.4 | 3234.9 | 3120.3 | 3165.3 |
| 15° | 5949.8 | 5757.3 | 5294.6 | 4704.9 | 4135.8 | 3554.3 | 3108.0 | 2788.6 | 2604.3 | 2493.7 | 2506.0 |
| 17.5° | 5994.8 | 5720.5 | 5089.9 | 4401.9 | 3726.3 | 3103.9 | 2608.4 | 2276.7 | 2088.4 | 2018.7 | 2002.4 |
| 20° | 5949.8 | 5679.5 | 4889.2 | 4098.9 | 3316.8 | 2673.9 | 2198.9 | 1924.6 | 1793.5 | 1736.2 | 1723.9 |
| 22.5° | 5966.1 | 5581.2 | 4680.4 | 3763.1 | 2936.0 | 2313.6 | 1924.6 | 1715.7 | 1613.4 | 1584.7 | 1592.9 |
| 25° | 6044.0 | 5523.9 | 4471.5 | 3394.6 | 2559.3 | 2047.4 | 1748.5 | 1588.8 | 1515.1 | 1486.4 | 1494.6 |
| 27.5° | 6101.3 | 5573.0 | 4283.2 | 3046.5 | 2239.9 | 1809.9 | 1601.1 | 1494.6 | 1445.5 | 1425.0 | 1420.9 |
| 30° | 6244.6 | 5601.7 | 4098.9 | 2735.3 | 1977.8 | 1654.3 | 1498.7 | 1412.7 | 1380.0 | 1367.7 | 1363.6 |
| 32.5° | 6457.5 | 5654.9 | 3886.0 | 2448.7 | 1785.3 | 1506.9 | 1416.8 | 1343.1 | 1334.9 | 1322.6 | 1326.7 |
| 35° | 6805.6 | 5839.2 | 3648.5 | 2203.0 | 1601.1 | 1408.6 | 1330.8 | 1281.7 | 1281.7 | 1281.7 | 1294.0 |
| 37.5° | 7305.2 | 6097.2 | 3435.6 | 1969.6 | 1482.3 | 1322.6 | 1257.1 | 1240.7 | 1232.5 | 1244.8 | 1253.0 |
| 40° | 7948.0 | 6408.4 | 3263.6 | 1785.3 | 1380.0 | 1265.3 | 1208.0 | 1199.8 | 1195.7 | 1191.6 | 1199.8 |
| 42.5° | 8652.3 | 6805.6 | 3116.2 | 1642.0 | 1306.2 | 1203.9 | 1162.9 | 1154.7 | 1138.4 | 1146.5 | 1158.8 |
| 45° | 9352.6 | 7297.0 | 2985.1 | 1527.4 | 1257.1 | 1171.1 | 1113.8 | 1109.7 | 1101.5 | 1097.4 | 1117.9 |
| 47.5° | 10130.6 | 7780.2 | 2944.2 | 1457.8 | 1220.3 | 1122.0 | 1081.0 | 1076.9 | 1052.4 | 1048.3 | 1064.7 |
| 50° | 10736.6 | 8136.4 | 2989.2 | 1425.0 | 1167.0 | 1085.1 | 1056.5 | 1036.0 | 1015.5 | 995.0 | 995.0 |
| 52.5° | 11154.3 | 8382.1 | 3022.0 | 1400.4 | 1138.4 | 1036.0 | 999.1 | 990.9 | 970.5 | 950.0 | 941.8 |
| 55° | 11531.0 | 8529.5 | 3030.2 | 1404.5 | 1109.7 | 978.7 | 954.1 | 950.0 | 937.7 | 905.0 | 896.8 |
| 57.5° | 11657.9 | 8468.1 | 2866.4 | 1367.7 | 1093.3 | 941.8 | 909.0 | 917.2 | 900.9 | 872.2 | 868.1 |
| 60° | 11645.7 | 8042.2 | 2493.7 | 1318.5 | 1056.5 | 900.9 | 859.9 | 884.5 | 884.5 | 851.7 | 847.6 |
| 62.5° | 10937.3 | 7059.5 | 2039.2 | 1224.4 | 1015.5 | 859.9 | 814.9 | 851.7 | 864.0 | 843.5 | 839.4 |
| 65° | 9467.2 | 5749.1 | 1703.4 | 1130.2 | 954.1 | 814.9 | 769.8 | 810.8 | 831.2 | 823.1 | 819.0 |
| 67.5° | 7833.4 | 4397.8 | 1416.8 | 1007.3 | 876.3 | 753.4 | 716.6 | 745.3 | 757.5 | 761.6 | 765.7 |
| 70° | 5536.2 | 2927.8 | 1183.4 | 872.2 | 769.8 | 687.9 | 647.0 | 651.1 | 647.0 | 659.3 | 659.3 |
| 72.5° | 3009.7 | 1687.1 | 962.3 | 741.2 | 663.4 | 597.8 | 569.2 | 548.7 | 548.7 | 544.6 | 544.6 |
| 73° | 2575.6 | 1515.1 | 917.2 | 720.7 | 634.7 | 581.5 | 548.7 | 532.3 | 532.3 | 528.2 | 524.1 |
| 75° | 1445.5 | 1109.7 | 786.2 | 618.3 | 548.7 | 507.8 | 483.2 | 458.6 | 454.5 | 454.5 | 454.5 |
| 77.5° | 950.0 | 864.0 | 626.5 | 495.5 | 442.2 | 405.4 | 397.2 | 372.6 | 372.6 | 372.6 | 368.5 |
| 80° | 712.5 | 679.7 | 483.2 | 376.7 | 339.9 | 311.2 | 303.0 | 286.6 | 282.5 | 266.2 | 270.3 |
| 82.5° | 475.0 | 536.4 | 352.2 | 266.2 | 229.3 | 212.9 | 212.9 | 208.8 | 196.6 | 176.1 | 176.1 |
| 85° | 376.7 | 438.1 | 253.9 | 163.8 | 135.1 | 114.7 | 118.7 | 114.7 | 110.6 | 90.1 | 86.0 |
| 87.5° | 69.6 | 176.1 | 73.7 | 45.0 | 32.8 | 20.5 | 20.5 | 12.3 | 8.2 | 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)