

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: P478223

Luminaire Tested: **IFLD-L-SA7D-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478223
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

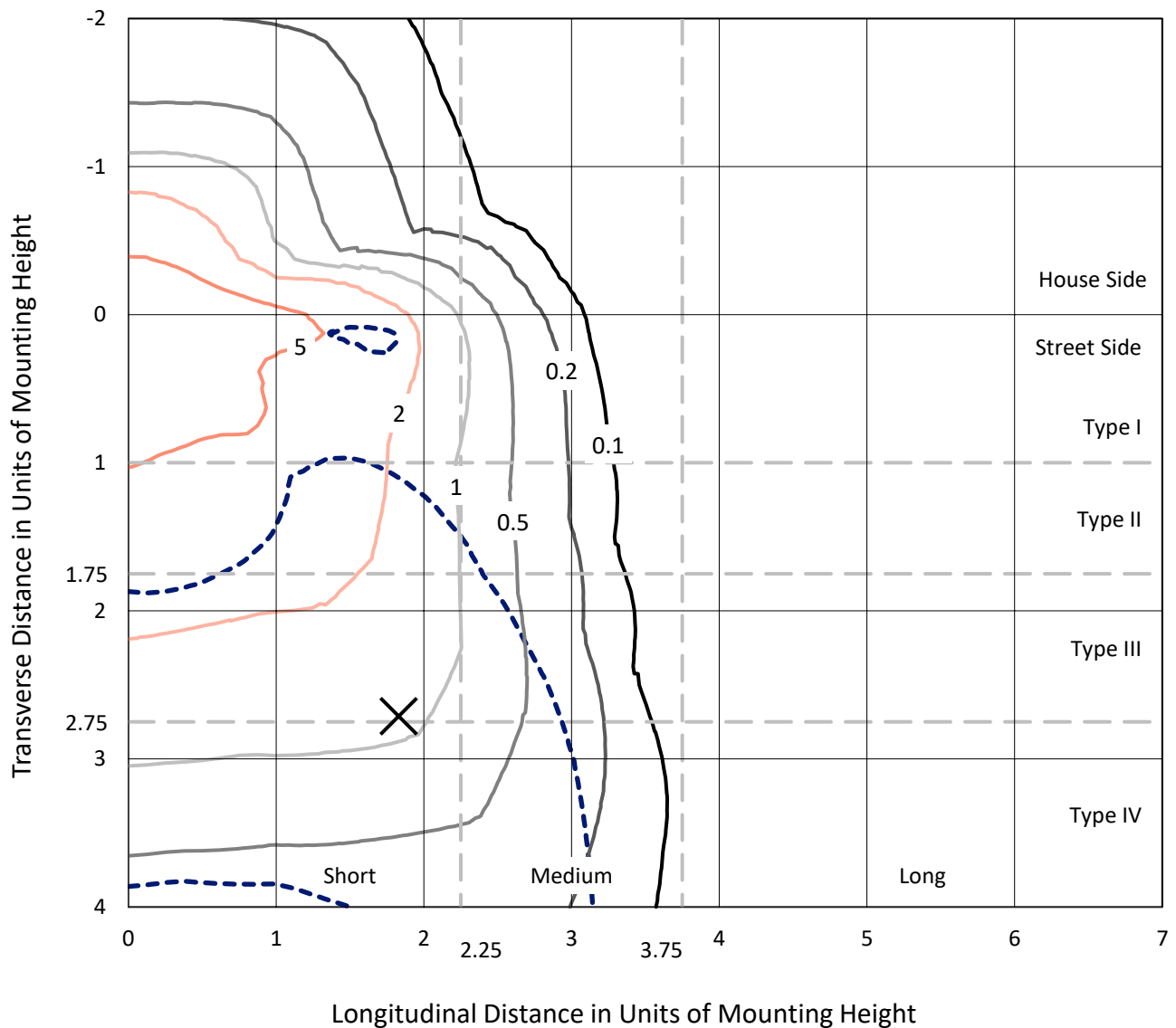
Lumens per Lamp: N/A
Luminaire Lumens: 51118.1 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

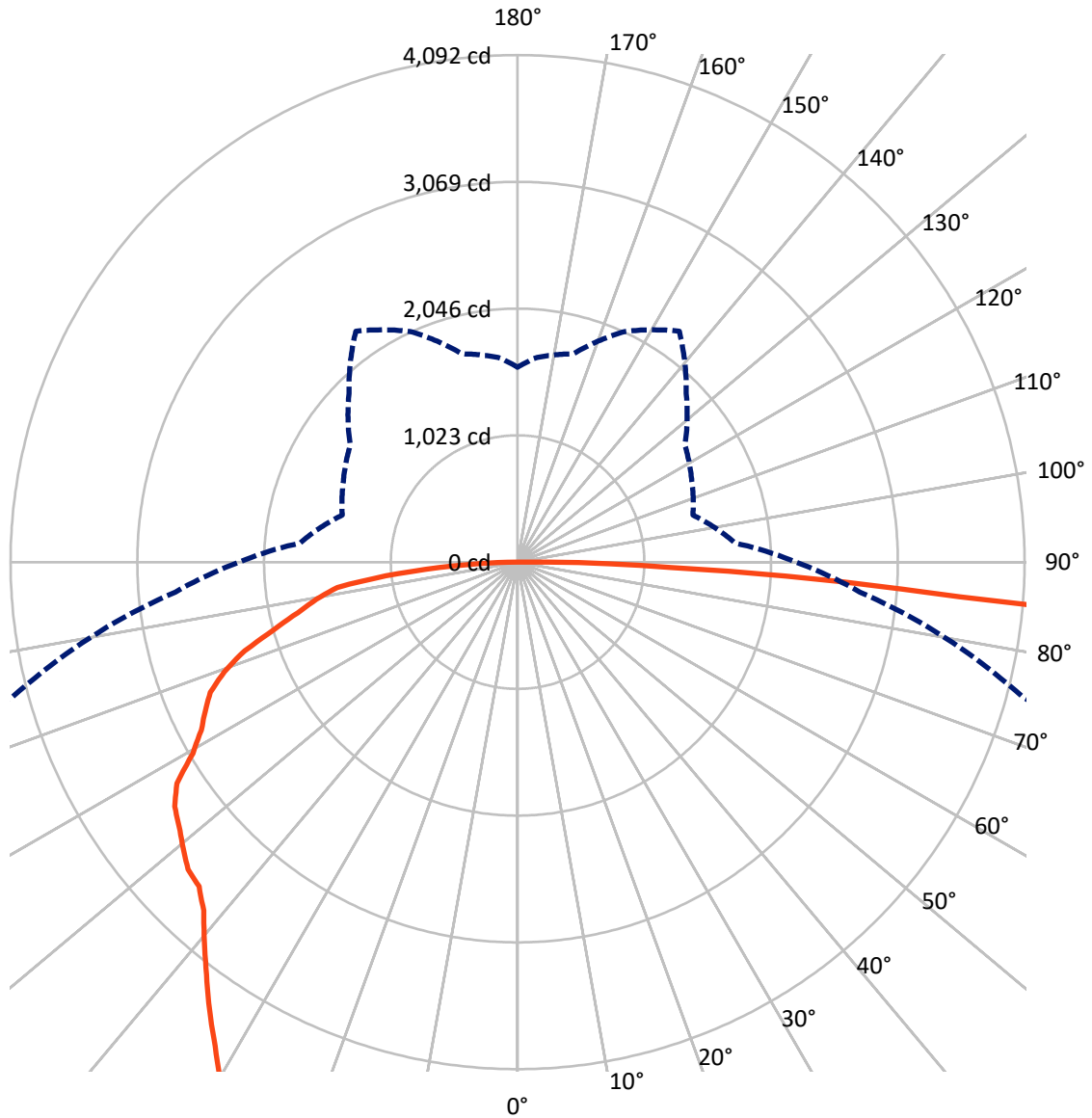
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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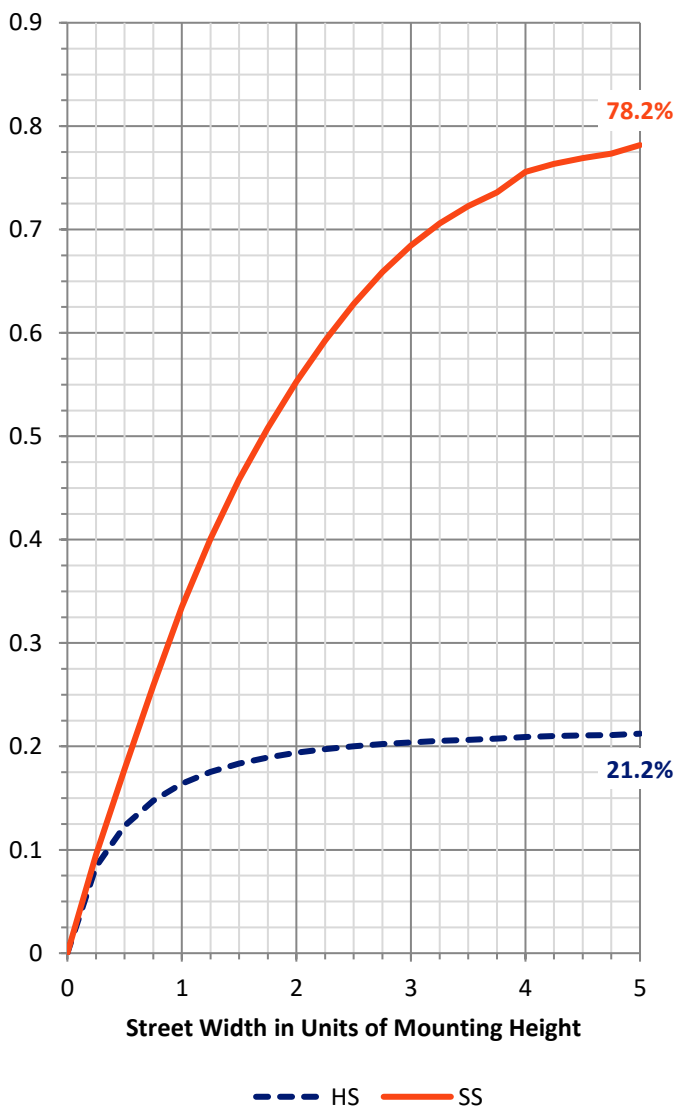
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11042.2 | 0.0 | 11042.2 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 40076.0 | 0.0 | 40076.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 51118.1 | 0.0 | 51118.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 676.4 | 1.3 |
| 10°-20° | 1892.9 | 3.7 |
| 20°-30° | 3115.5 | 6.1 |
| 30°-40° | 4659.2 | 9.1 |
| 40°-50° | 6907.1 | 13.5 |
| 50°-60° | 9953.8 | 19.5 |
| 60°-70° | 12702.4 | 24.8 |
| 70°-80° | 9884.6 | 19.3 |
| 80°-90° | 1326.1 | 2.6 |
| 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° | 51118.1 | 100.0 |
| 0°-180° | 51118.1 | 100.0 |

Coefficient of Utilization



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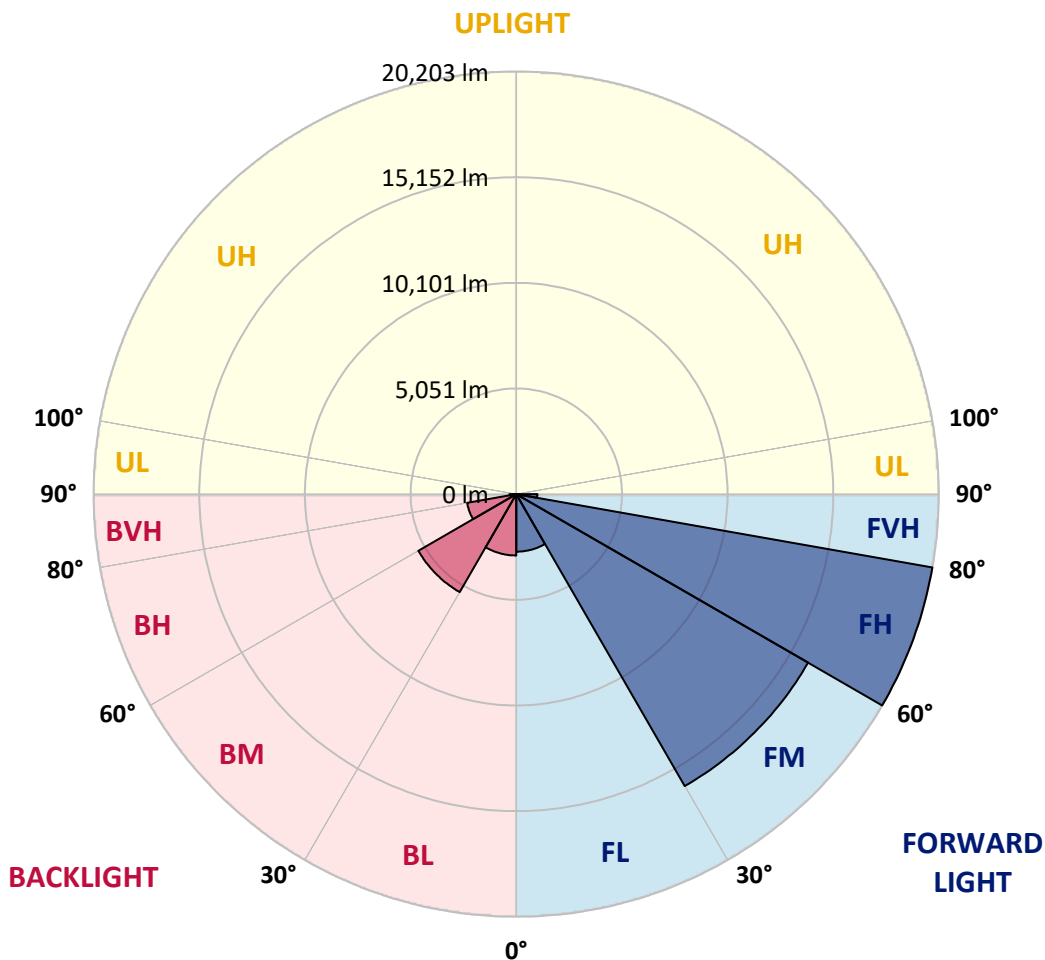
CATALOG NUMBER: IFLD-L-SA7D-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2751.0 | 5.4 | | | |
| FM (30°-60°) | 16112.8 | 31.5 | | | |
| FH (60°-80°) | 20202.8 | 39.5 | | | G5 |
| FVH (80°-90°) | 1009.4 | 2.0 | | | G5 |
| BL (0°-30°) | 2933.8 | 5.7 | B4/5000 | | |
| BM (30°-60°) | 5407.4 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 2384.2 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 316.7 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 |
| 2.5° | 6566.5 | 6588.2 | 6658.4 | 6674.6 | 6750.3 | 6707.1 | 6798.9 | 6961.1 | 7053.0 | 7188.1 | 7350.2 |
| 5° | 6047.7 | 5955.8 | 5999.1 | 6166.6 | 6253.1 | 6274.7 | 6372.0 | 6647.6 | 6820.6 | 7020.5 | 7323.2 |
| 7.5° | 5437.0 | 5420.8 | 5507.2 | 5615.3 | 5788.3 | 5804.5 | 6020.7 | 6263.9 | 6620.6 | 7063.8 | 7420.5 |
| 10° | 5020.8 | 5091.1 | 5139.7 | 5253.2 | 5372.1 | 5372.1 | 5647.8 | 6069.3 | 6474.7 | 6901.6 | 7442.1 |
| 12.5° | 4999.2 | 4956.0 | 4966.8 | 5026.2 | 5112.7 | 5220.8 | 5480.2 | 5858.5 | 6372.0 | 6869.2 | 7534.0 |
| 15° | 5069.5 | 5085.7 | 4988.4 | 5064.1 | 5096.5 | 5134.3 | 5420.8 | 5847.7 | 6307.1 | 6982.7 | 7690.7 |
| 17.5° | 5442.4 | 5350.5 | 5199.2 | 5128.9 | 5242.4 | 5242.4 | 5437.0 | 5772.1 | 6317.9 | 7042.1 | 7917.7 |
| 20° | 5734.2 | 5734.2 | 5485.6 | 5410.0 | 5491.0 | 5474.8 | 5609.9 | 5858.5 | 6372.0 | 7161.0 | 8171.7 |
| 22.5° | 6226.1 | 6296.3 | 5885.6 | 5728.8 | 5723.4 | 5766.7 | 5885.6 | 6096.3 | 6523.3 | 7328.6 | 8414.9 |
| 25° | 6934.1 | 6950.3 | 6474.7 | 6312.5 | 6139.6 | 6209.8 | 6231.5 | 6442.2 | 6658.4 | 7523.2 | 8690.5 |
| 27.5° | 7723.1 | 7712.3 | 7274.5 | 6869.2 | 6755.7 | 6771.9 | 6653.0 | 6793.5 | 6858.4 | 7582.6 | 9085.1 |
| 30° | 8598.7 | 8501.4 | 8171.7 | 7598.8 | 7506.9 | 7404.3 | 7144.8 | 7139.4 | 7274.5 | 7917.7 | 9630.9 |
| 32.5° | 9171.5 | 9047.2 | 8820.2 | 8409.5 | 8155.5 | 8166.3 | 7755.5 | 7750.1 | 7631.2 | 8285.2 | 10106.5 |
| 35° | 9733.6 | 9544.5 | 9485.0 | 9063.5 | 8809.4 | 8836.5 | 8506.8 | 8463.5 | 8247.4 | 8841.9 | 10890.2 |
| 37.5° | 10409.2 | 10241.6 | 10333.5 | 10014.7 | 9701.2 | 9571.5 | 9420.2 | 9366.1 | 9085.1 | 9625.5 | 11960.3 |
| 40° | 11155.0 | 11101.0 | 11041.5 | 10884.8 | 10695.6 | 10706.4 | 10544.3 | 10490.3 | 10074.1 | 10571.3 | 12987.2 |
| 42.5° | 12160.3 | 11954.9 | 11646.8 | 11749.5 | 11846.8 | 11949.5 | 11895.4 | 11754.9 | 11322.6 | 11533.3 | 14132.9 |
| 45° | 13095.3 | 12825.0 | 12257.5 | 12290.0 | 12689.9 | 12771.0 | 13424.9 | 13408.7 | 12538.6 | 12754.8 | 15435.4 |
| 47.5° | 13727.6 | 13603.3 | 13262.8 | 13225.0 | 13797.8 | 13792.4 | 14970.6 | 14970.6 | 13819.5 | 13970.8 | 16835.2 |
| 50° | 14668.0 | 14343.7 | 14197.8 | 14386.9 | 14678.8 | 14878.8 | 16548.8 | 16651.5 | 15078.7 | 15240.9 | 18667.4 |
| 52.5° | 15770.5 | 15365.2 | 14997.7 | 15484.1 | 16002.9 | 16132.6 | 18110.7 | 18067.5 | 16046.1 | 16716.3 | 20813.0 |
| 55° | 16683.9 | 16478.5 | 16224.5 | 16505.5 | 17354.1 | 17516.2 | 19678.0 | 19278.1 | 17013.6 | 17937.7 | 21845.2 |
| 57.5° | 17748.6 | 17872.9 | 17926.9 | 17856.7 | 18867.3 | 19121.3 | 21466.9 | 20321.2 | 17845.9 | 18759.2 | 22450.6 |
| 60° | 19353.7 | 19429.4 | 19499.7 | 19667.2 | 20737.3 | 21094.0 | 22882.9 | 21629.1 | 18370.1 | 19234.8 | 22499.2 |
| 62.5° | 21796.6 | 21504.8 | 21661.5 | 22239.8 | 23099.1 | 23504.4 | 24969.1 | 22547.8 | 18770.0 | 19521.3 | 20910.3 |
| 65° | 24590.8 | 24196.2 | 24034.1 | 24779.9 | 27006.6 | 26682.3 | 27574.1 | 23234.2 | 18191.8 | 18451.2 | 17732.4 |
| 67.5° | 27422.8 | 27466.0 | 27049.8 | 28546.9 | 31276.2 | 31276.2 | 29995.3 | 23563.9 | 16624.4 | 14954.4 | 12435.9 |
| 70° | 29671.1 | 29806.2 | 30033.2 | 32935.4 | 37259.1 | 37913.0 | 32994.9 | 22212.8 | 13430.3 | 9955.2 | 6798.9 |
| 72.5° | 29638.6 | 29233.3 | 30395.3 | 35740.4 | 42696.0 | 42150.2 | 33621.8 | 17564.8 | 8382.5 | 4874.9 | 3118.4 |
| 73° | 28973.9 | 28633.4 | 29903.4 | 35713.4 | 42917.6 | 42404.2 | 33162.4 | 16192.1 | 7393.4 | 4226.4 | 2772.5 |
| 75° | 23661.2 | 23045.1 | 25206.9 | 32346.3 | 39707.3 | 40101.9 | 28174.0 | 10560.5 | 4053.4 | 2605.0 | 1951.0 |
| 77.5° | 10787.5 | 11057.7 | 13873.5 | 21699.3 | 30600.6 | 31065.4 | 18521.4 | 4566.9 | 2221.3 | 1826.7 | 1437.6 |
| 80° | 3464.3 | 3637.3 | 5399.2 | 10787.5 | 19180.8 | 20018.5 | 8560.8 | 2075.4 | 1583.5 | 1399.8 | 1075.5 |
| 82.5° | 1324.1 | 1318.7 | 2264.5 | 4485.8 | 9090.5 | 9625.5 | 3129.2 | 1264.7 | 1178.2 | 1032.3 | 762.0 |
| 85° | 464.8 | 486.4 | 853.9 | 1772.7 | 3577.8 | 3745.4 | 1086.3 | 702.6 | 816.1 | 691.8 | 437.8 |
| 87.5° | 162.1 | 167.5 | 302.7 | 643.1 | 1232.2 | 1302.5 | 302.7 | 281.0 | 405.3 | 399.9 | 221.6 |
| 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° | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 | 7328.6 |
| 2.5° | 7404.3 | 7452.9 | 7469.1 | 7663.7 | 7663.7 | 7663.7 | 7739.3 | 7739.3 | 7717.7 | 7663.7 | 7793.4 |
| 5° | 7436.7 | 7523.2 | 7690.7 | 7858.2 | 7901.5 | 7939.3 | 8042.0 | 7955.5 | 7987.9 | 7933.9 | 7982.5 |
| 7.5° | 7528.6 | 7647.5 | 7960.9 | 8063.6 | 7993.3 | 8074.4 | 7966.3 | 7906.9 | 7847.4 | 7869.0 | 7793.4 |
| 10° | 7685.3 | 7836.6 | 7982.5 | 8171.7 | 8036.6 | 7955.5 | 7733.9 | 7679.9 | 7490.7 | 7425.9 | 7485.3 |
| 12.5° | 7879.9 | 8063.6 | 8312.2 | 8242.0 | 7982.5 | 7750.1 | 7512.3 | 7285.4 | 7171.9 | 7009.7 | 7053.0 |
| 15° | 8074.4 | 8285.2 | 8323.0 | 8204.1 | 7879.9 | 7588.0 | 7155.6 | 6836.8 | 6723.3 | 6577.4 | 6653.0 |
| 17.5° | 8285.2 | 8485.2 | 8420.3 | 8112.2 | 7674.5 | 7231.3 | 6739.5 | 6426.0 | 6188.2 | 6096.3 | 6096.3 |
| 20° | 8598.7 | 8695.9 | 8593.3 | 7960.9 | 7425.9 | 6842.2 | 6366.6 | 6009.9 | 5772.1 | 5734.2 | 5674.8 |
| 22.5° | 8841.9 | 8998.6 | 8539.2 | 7739.3 | 7063.8 | 6334.1 | 5788.3 | 5653.2 | 5582.9 | 5523.5 | 5447.8 |
| 25° | 9155.3 | 9149.9 | 8441.9 | 7534.0 | 6442.2 | 5728.8 | 5399.2 | 5388.3 | 5355.9 | 5334.3 | 5437.0 |
| 27.5° | 9452.6 | 9328.3 | 8328.4 | 7025.9 | 5799.1 | 5269.4 | 5091.1 | 5210.0 | 5258.6 | 5226.2 | 5269.4 |
| 30° | 9922.8 | 9717.4 | 8166.3 | 6485.5 | 5231.6 | 4804.7 | 4837.1 | 4999.2 | 5080.3 | 5128.9 | 5064.1 |
| 32.5° | 10420.0 | 10106.5 | 7831.2 | 5923.4 | 4729.0 | 4512.8 | 4588.5 | 4756.0 | 4853.3 | 4907.3 | 4966.8 |
| 35° | 11138.8 | 10409.2 | 7490.7 | 5188.4 | 4366.9 | 4334.5 | 4377.7 | 4469.6 | 4610.1 | 4647.9 | 4664.1 |
| 37.5° | 12025.2 | 10868.6 | 7031.3 | 4599.3 | 4085.8 | 4123.7 | 4166.9 | 4199.3 | 4204.8 | 4275.0 | 4248.0 |
| 40° | 12911.5 | 11257.7 | 6361.2 | 4037.2 | 3794.0 | 3999.4 | 3977.8 | 3918.3 | 3869.7 | 3804.8 | 3788.6 |
| 42.5° | 13689.8 | 11598.2 | 5615.3 | 3561.6 | 3534.6 | 3869.7 | 3799.4 | 3648.1 | 3534.6 | 3485.9 | 3404.9 |
| 45° | 14565.3 | 12079.2 | 4864.1 | 3264.4 | 3334.6 | 3712.9 | 3691.3 | 3458.9 | 3313.0 | 3140.1 | 3118.4 |
| 47.5° | 15700.3 | 12581.8 | 4145.3 | 2956.3 | 3145.5 | 3653.5 | 3664.3 | 3367.0 | 3156.3 | 2923.9 | 2891.4 |
| 50° | 17154.1 | 13306.0 | 3599.4 | 2826.6 | 3032.0 | 3567.0 | 3583.2 | 3242.7 | 2967.1 | 2729.3 | 2707.7 |
| 52.5° | 18548.5 | 14046.5 | 3145.5 | 2626.6 | 2956.3 | 3464.3 | 3502.2 | 3129.2 | 2810.4 | 2513.1 | 2529.3 |
| 55° | 19251.1 | 13776.2 | 2756.3 | 2480.7 | 2783.4 | 3296.8 | 3437.3 | 3048.2 | 2572.6 | 2367.2 | 2361.8 |
| 57.5° | 19407.8 | 13111.5 | 2448.3 | 2329.4 | 2637.4 | 3118.4 | 3329.2 | 2805.0 | 2464.5 | 2291.5 | 2269.9 |
| 60° | 18894.4 | 11949.5 | 2205.1 | 2167.2 | 2453.7 | 2934.7 | 3080.6 | 2675.3 | 2356.4 | 2215.9 | 2183.4 |
| 62.5° | 17629.7 | 10744.3 | 2037.5 | 2091.6 | 2296.9 | 2734.7 | 2923.9 | 2583.4 | 2253.7 | 2156.4 | 2086.2 |
| 65° | 14457.2 | 8836.5 | 1902.4 | 1945.6 | 2134.8 | 2540.1 | 2826.6 | 2480.7 | 2161.8 | 2069.9 | 2064.5 |
| 67.5° | 10014.7 | 6090.9 | 1794.3 | 1875.4 | 2005.1 | 2399.6 | 2729.3 | 2367.2 | 2042.9 | 2010.5 | 1967.3 |
| 70° | 5128.9 | 3248.1 | 1653.8 | 1718.7 | 1864.6 | 2221.3 | 2556.4 | 2248.3 | 1918.6 | 1913.2 | 1859.2 |
| 72.5° | 2599.6 | 1902.4 | 1491.7 | 1588.9 | 1691.6 | 1988.9 | 2340.2 | 2091.6 | 1761.9 | 1702.4 | 1616.0 |
| 73° | 2248.3 | 1761.9 | 1464.6 | 1551.1 | 1648.4 | 1924.0 | 2275.3 | 2053.7 | 1740.3 | 1653.8 | 1572.7 |
| 75° | 1637.6 | 1389.0 | 1313.3 | 1399.8 | 1475.4 | 1734.9 | 2059.1 | 1880.8 | 1599.8 | 1507.9 | 1432.2 |
| 77.5° | 1226.8 | 1070.1 | 1091.7 | 1189.0 | 1253.9 | 1497.1 | 1832.1 | 1702.4 | 1448.4 | 1324.1 | 1291.7 |
| 80° | 902.6 | 816.1 | 902.6 | 994.4 | 1043.1 | 1318.7 | 1670.0 | 1475.4 | 1221.4 | 1080.9 | 1053.9 |
| 82.5° | 643.1 | 594.5 | 697.2 | 756.6 | 778.3 | 1091.7 | 1502.5 | 1178.2 | 924.2 | 740.4 | 681.0 |
| 85° | 367.5 | 362.1 | 470.2 | 464.8 | 481.0 | 637.7 | 989.0 | 783.7 | 594.5 | 454.0 | 443.2 |
| 87.5° | 162.1 | 178.4 | 237.8 | 189.2 | 200.0 | 302.7 | 421.6 | 291.8 | 243.2 | 135.1 | 102.7 |
| 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)