

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: P480137

Luminaire Tested: **IFLD-L-SA8B-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480137
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

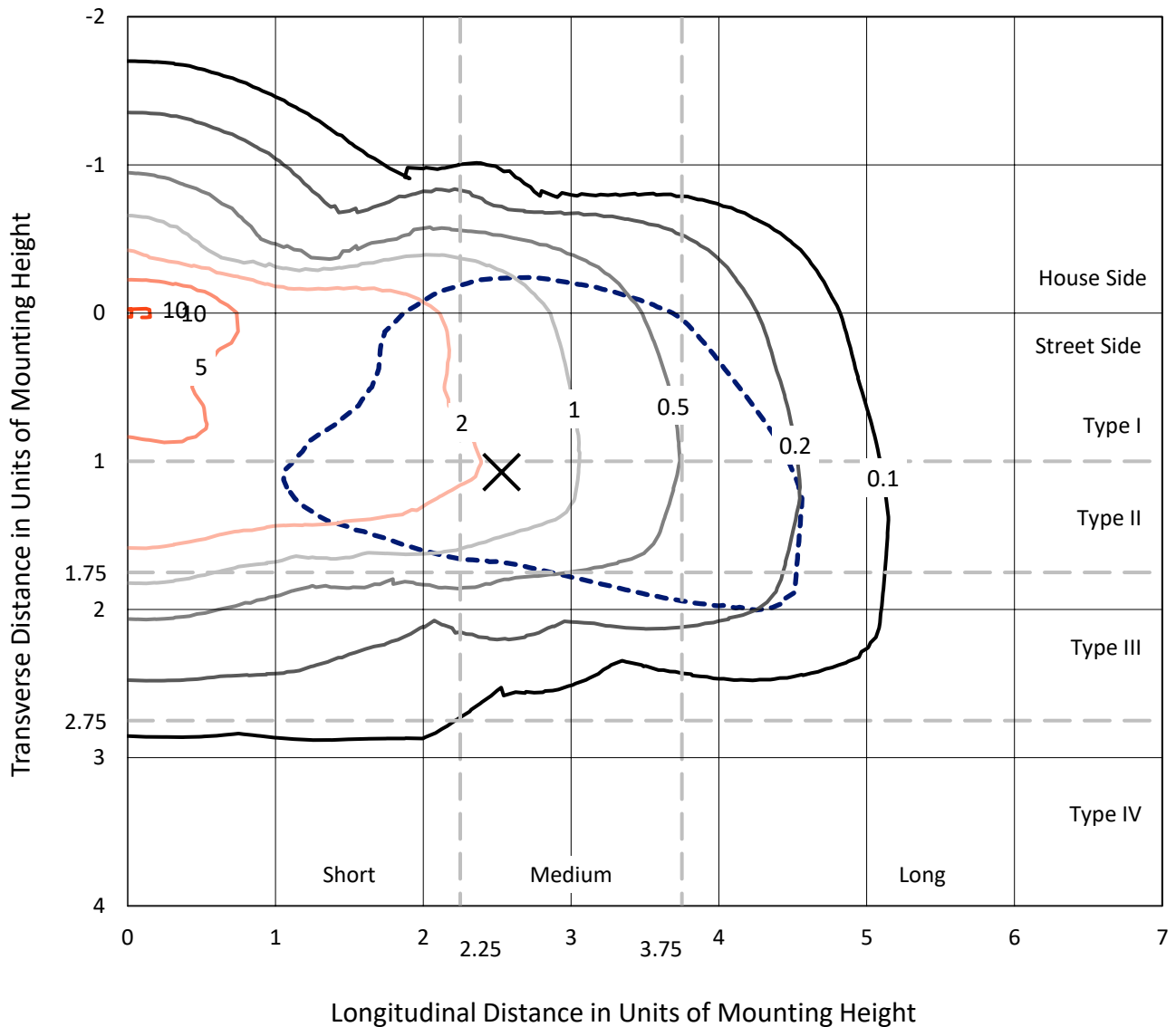
Lumens per Lamp: N/A
Luminaire Lumens: 40578.9 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 320
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

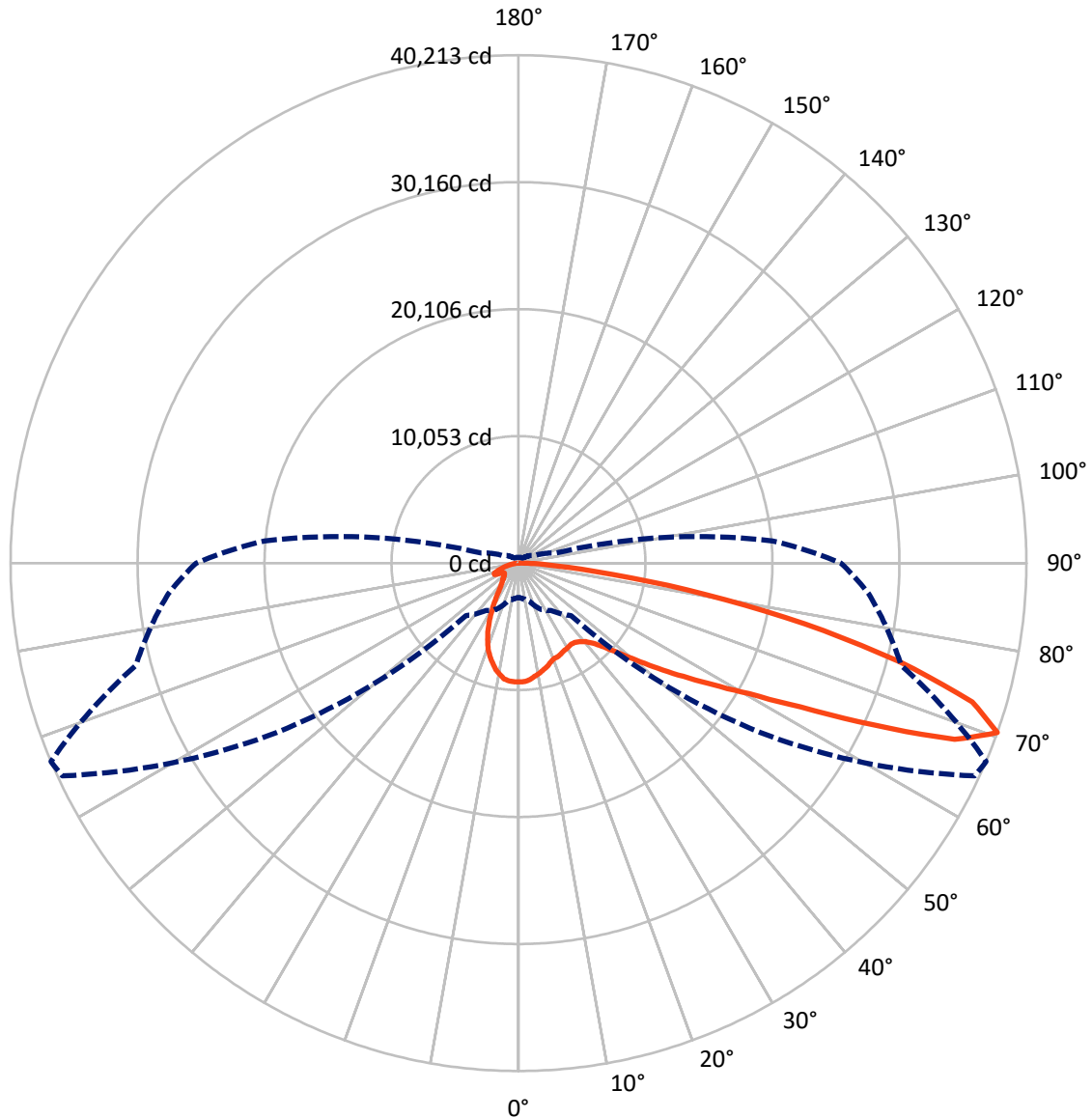
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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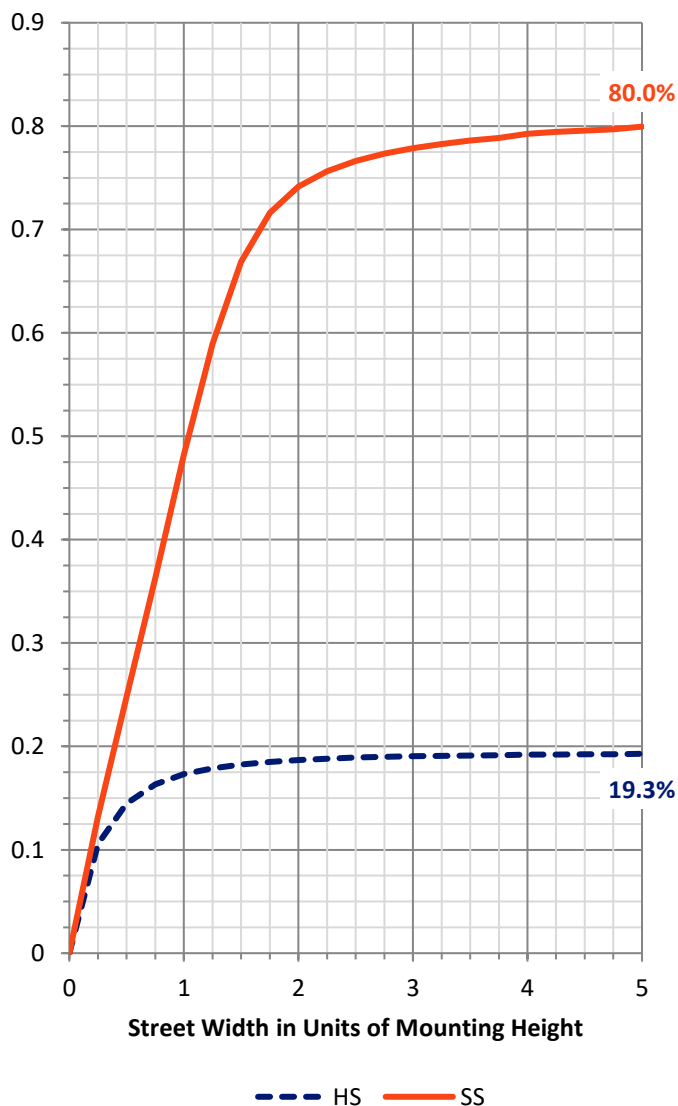
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7903.1 | 0.0 | 7903.1 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 32675.8 | 0.0 | 32675.8 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 40578.9 | 0.0 | 40578.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 819.6 | 2.0 |
| 10°-20° | 1963.0 | 4.8 |
| 20°-30° | 2650.9 | 6.5 |
| 30°-40° | 3547.1 | 8.7 |
| 40°-50° | 5216.0 | 12.9 |
| 50°-60° | 8130.4 | 20.0 |
| 60°-70° | 10015.3 | 24.7 |
| 70°-80° | 7076.7 | 17.4 |
| 80°-90° | 1159.9 | 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° | 40578.9 | 100.0 |
| 0°-180° | 40578.9 | 100.0 |

Coefficient of Utilization



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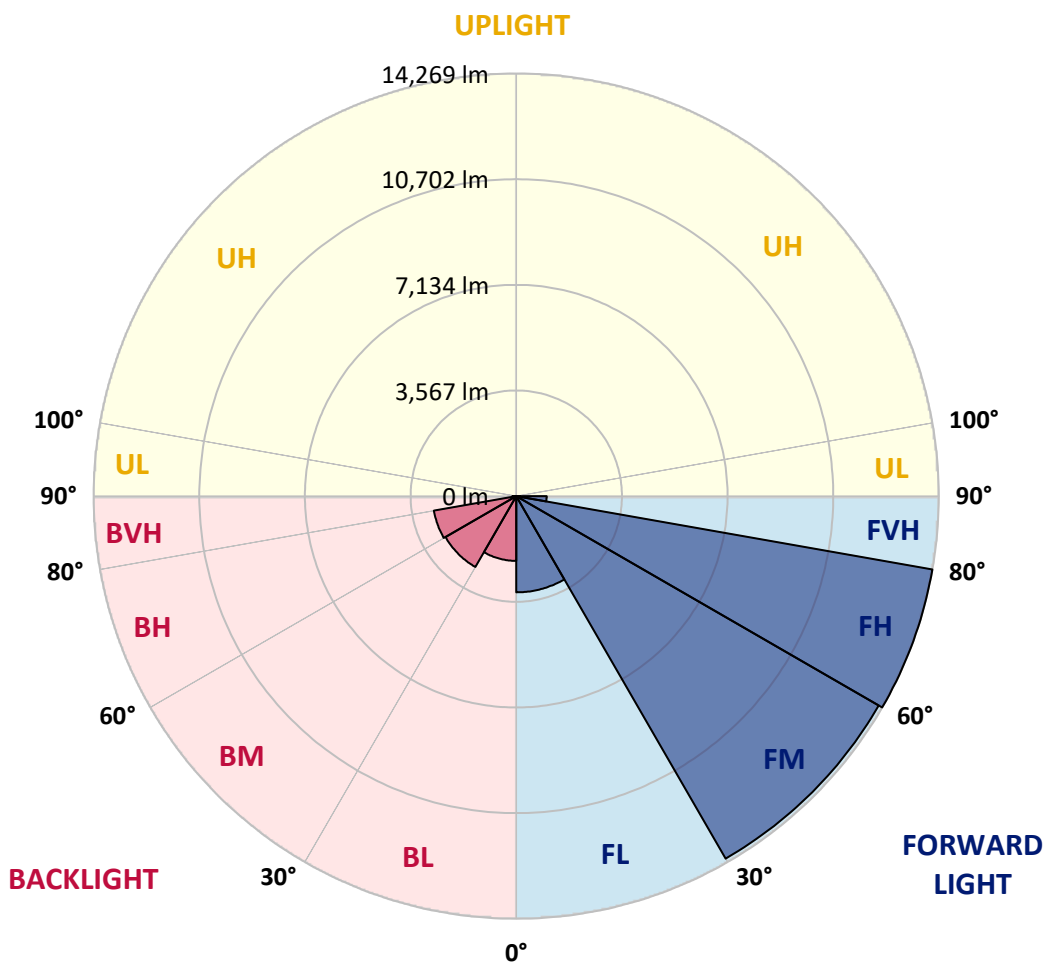
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3248.0 | 8.0 | | | |
| FM (30°-60°) | 14132.8 | 34.8 | | | |
| FH (60°-80°) | 14268.9 | 35.2 | | | G5 |
| FVH (80°-90°) | 1026.1 | 2.5 | | | G5 |
| BL (0°-30°) | 2185.5 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 2760.7 | 6.8 | B3/5000 | | |
| BH (60°-80°) | 2823.1 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 133.8 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 |
| 2.5° | 8747.0 | 8845.8 | 8881.7 | 8935.7 | 9074.9 | 9178.3 | 9241.2 | 9313.0 | 9398.4 | 9470.3 | 9515.2 |
| 5° | 8136.0 | 8189.9 | 8275.3 | 8333.7 | 8508.9 | 8787.4 | 8976.1 | 9281.6 | 9272.6 | 9384.9 | 9555.6 |
| 7.5° | 7543.0 | 7596.9 | 7637.3 | 7754.1 | 8005.7 | 8257.3 | 8603.2 | 9097.4 | 9061.4 | 9322.0 | 9587.1 |
| 10° | 7174.6 | 7134.1 | 7147.6 | 7345.3 | 7543.0 | 7826.0 | 8261.8 | 8764.9 | 8895.2 | 9299.6 | 9676.9 |
| 12.5° | 6828.7 | 6783.7 | 6891.6 | 7017.3 | 7259.9 | 7516.0 | 8037.2 | 8490.9 | 8688.6 | 9218.7 | 9717.4 |
| 15° | 6613.0 | 6581.6 | 6716.3 | 6770.3 | 7057.8 | 7363.3 | 7731.7 | 8284.2 | 8499.9 | 9119.9 | 9654.5 |
| 17.5° | 6491.7 | 6518.7 | 6568.1 | 6684.9 | 6869.1 | 7129.7 | 7534.0 | 8145.0 | 8239.3 | 8998.6 | 9641.0 |
| 20° | 6514.2 | 6545.6 | 6550.1 | 6599.5 | 6725.3 | 6927.5 | 7340.8 | 7996.7 | 8059.6 | 8976.1 | 9676.9 |
| 22.5° | 6693.9 | 6649.0 | 6666.9 | 6635.5 | 6671.4 | 6828.7 | 7192.6 | 7799.0 | 8041.6 | 8787.4 | 9600.6 |
| 25° | 6963.4 | 6900.5 | 6891.6 | 6783.7 | 6716.3 | 6761.3 | 7165.6 | 7749.6 | 7906.9 | 8729.0 | 9596.1 |
| 27.5° | 7439.6 | 7345.3 | 7345.3 | 7183.6 | 6909.5 | 6837.6 | 7089.2 | 7668.8 | 7808.0 | 8675.1 | 9492.7 |
| 30° | 7897.9 | 7897.9 | 7902.4 | 7673.3 | 7367.8 | 7012.9 | 7120.7 | 7637.3 | 7727.2 | 8513.4 | 9353.5 |
| 32.5° | 8455.0 | 8441.5 | 8419.0 | 8306.7 | 7835.0 | 7304.9 | 7273.4 | 7596.9 | 7641.8 | 8459.4 | 9313.0 |
| 35° | 8998.6 | 8962.6 | 9137.8 | 9039.0 | 8558.3 | 7875.4 | 7430.7 | 7614.9 | 7713.7 | 8378.6 | 9187.2 |
| 37.5° | 9407.4 | 9429.8 | 9793.7 | 9856.6 | 9443.3 | 8522.3 | 7875.4 | 7794.6 | 7888.9 | 8495.4 | 9187.2 |
| 40° | 9937.5 | 10027.3 | 10368.8 | 10579.9 | 10328.3 | 9375.9 | 8580.7 | 8095.6 | 8162.9 | 8756.0 | 9384.9 |
| 42.5° | 10633.8 | 10710.2 | 11146.0 | 11420.0 | 11348.2 | 10463.1 | 9277.1 | 8724.5 | 8670.6 | 9191.7 | 9681.4 |
| 45° | 11554.8 | 11568.3 | 12008.6 | 12385.9 | 12534.2 | 11599.7 | 10382.3 | 9519.7 | 9474.8 | 9942.0 | 10225.0 |
| 47.5° | 12651.0 | 12637.5 | 12911.6 | 13315.9 | 13715.7 | 12956.5 | 11653.6 | 10728.2 | 10566.4 | 11015.7 | 11128.0 |
| 50° | 13711.2 | 13652.8 | 13715.7 | 14232.4 | 15000.6 | 14654.7 | 13199.1 | 12206.2 | 12044.5 | 12291.6 | 12484.8 |
| 52.5° | 14295.3 | 14367.1 | 14196.4 | 14879.3 | 16366.3 | 16662.8 | 15247.7 | 13971.8 | 13832.5 | 13953.8 | 14290.8 |
| 55° | 13886.4 | 14034.7 | 13922.4 | 14569.3 | 16963.8 | 19111.3 | 17898.3 | 16015.9 | 15836.2 | 15791.3 | 16343.9 |
| 57.5° | 12147.8 | 12417.4 | 12439.8 | 13464.1 | 16757.2 | 21007.1 | 21627.1 | 18428.4 | 18158.8 | 17700.6 | 18271.2 |
| 60° | 9326.5 | 9596.1 | 9802.7 | 11015.7 | 14987.1 | 22139.2 | 25948.9 | 21860.7 | 20971.2 | 19785.1 | 20126.6 |
| 62.5° | 6536.6 | 6720.8 | 6927.5 | 7673.3 | 11554.8 | 21474.3 | 29686.7 | 26694.7 | 25054.9 | 21982.0 | 22408.8 |
| 65° | 4762.1 | 4905.9 | 5117.0 | 5557.3 | 7098.2 | 17768.0 | 31420.8 | 32436.1 | 30881.7 | 24776.3 | 24722.4 |
| 67.5° | 3585.0 | 3674.9 | 3953.4 | 4658.8 | 4919.3 | 10975.3 | 29623.8 | 38501.0 | 37243.1 | 27880.7 | 26582.3 |
| 70° | 2713.5 | 2789.9 | 3050.4 | 4016.3 | 4595.9 | 5885.2 | 23370.2 | 39853.3 | 40212.7 | 31362.4 | 27831.3 |
| 72.5° | 1868.9 | 1954.3 | 2246.3 | 3346.9 | 4375.7 | 4667.7 | 14668.1 | 36205.4 | 37566.6 | 32795.5 | 26492.5 |
| 75° | 1145.6 | 1204.0 | 1374.7 | 2538.3 | 4344.3 | 4564.4 | 8073.1 | 29668.7 | 31110.8 | 30302.2 | 23177.0 |
| 77.5° | 808.7 | 804.2 | 835.6 | 1487.0 | 3764.7 | 4591.4 | 4977.7 | 21739.4 | 23141.1 | 22332.4 | 15728.4 |
| 80° | 588.5 | 593.0 | 624.5 | 889.5 | 2556.3 | 4667.7 | 3922.0 | 14560.3 | 14978.1 | 11644.7 | 6204.2 |
| 82.5° | 354.9 | 372.9 | 449.3 | 602.0 | 1536.4 | 4214.0 | 3625.5 | 8091.1 | 7569.9 | 3737.8 | 1707.2 |
| 85° | 188.7 | 188.7 | 265.1 | 381.9 | 817.6 | 3144.8 | 3490.7 | 3850.1 | 3225.6 | 1159.1 | 633.4 |
| 87.5° | 44.9 | 44.9 | 76.4 | 152.7 | 328.0 | 1505.0 | 2381.0 | 1532.0 | 1226.5 | 390.9 | 260.6 |
| 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° | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 | 9393.9 |
| 2.5° | 9497.2 | 9443.3 | 9510.7 | 9375.9 | 9268.1 | 9272.6 | 9106.4 | 9097.4 | 9074.9 | 8958.1 | 8998.6 |
| 5° | 9605.0 | 9560.1 | 9483.7 | 9335.5 | 9097.4 | 8859.3 | 8715.5 | 8531.3 | 8455.0 | 8414.5 | 8432.5 |
| 7.5° | 9708.4 | 9627.5 | 9407.4 | 9200.7 | 8832.3 | 8383.1 | 8122.5 | 7875.4 | 7560.9 | 7525.0 | 7462.1 |
| 10° | 9735.3 | 9564.6 | 9281.6 | 8841.3 | 8351.6 | 7853.0 | 7259.9 | 6801.7 | 6559.1 | 6370.4 | 6298.5 |
| 12.5° | 9694.9 | 9623.0 | 9079.4 | 8513.4 | 7772.1 | 6990.4 | 6298.5 | 5651.6 | 5202.4 | 4968.7 | 4905.9 |
| 15° | 9690.4 | 9564.6 | 8854.8 | 8014.7 | 7066.8 | 6047.0 | 5063.1 | 4285.9 | 3814.2 | 3621.0 | 3621.0 |
| 17.5° | 9694.9 | 9393.9 | 8589.7 | 7511.5 | 6235.6 | 4856.4 | 3773.7 | 3135.8 | 2875.2 | 2848.3 | 2870.7 |
| 20° | 9605.0 | 9268.1 | 8311.2 | 6918.5 | 5193.4 | 3647.9 | 2740.4 | 2479.9 | 2479.9 | 2515.8 | 2529.3 |
| 22.5° | 9524.2 | 9079.4 | 7870.9 | 6186.2 | 4133.1 | 2641.6 | 2228.3 | 2151.9 | 2237.3 | 2300.2 | 2327.1 |
| 25° | 9411.9 | 8922.2 | 7421.7 | 5427.0 | 3144.8 | 2129.5 | 1936.3 | 1954.3 | 2035.1 | 2147.4 | 2138.4 |
| 27.5° | 9250.1 | 8648.1 | 6887.1 | 4546.4 | 2340.6 | 1837.4 | 1788.0 | 1797.0 | 1882.4 | 1931.8 | 1922.8 |
| 30° | 9065.9 | 8369.6 | 6392.9 | 3670.4 | 1855.4 | 1684.7 | 1680.2 | 1702.7 | 1716.1 | 1743.1 | 1738.6 |
| 32.5° | 8832.3 | 8001.2 | 5867.3 | 2852.8 | 1671.2 | 1599.3 | 1581.4 | 1567.9 | 1581.4 | 1576.9 | 1563.4 |
| 35° | 8666.1 | 7803.5 | 5332.6 | 2174.4 | 1567.9 | 1523.0 | 1509.5 | 1487.0 | 1469.1 | 1442.1 | 1437.6 |
| 37.5° | 8621.2 | 7605.9 | 4771.1 | 1774.6 | 1487.0 | 1464.6 | 1419.6 | 1379.2 | 1356.7 | 1343.3 | 1334.3 |
| 40° | 8594.2 | 7475.6 | 4223.0 | 1558.9 | 1419.6 | 1397.2 | 1343.3 | 1289.4 | 1266.9 | 1253.4 | 1257.9 |
| 42.5° | 8688.6 | 7403.7 | 3665.9 | 1451.1 | 1361.2 | 1320.8 | 1262.4 | 1199.5 | 1195.0 | 1186.0 | 1199.5 |
| 45° | 9021.0 | 7493.6 | 3149.3 | 1374.7 | 1302.8 | 1235.4 | 1159.1 | 1127.6 | 1123.1 | 1114.1 | 1123.1 |
| 47.5° | 9775.8 | 7718.2 | 2709.0 | 1325.3 | 1239.9 | 1181.5 | 1100.7 | 1055.7 | 1051.3 | 1046.8 | 1046.8 |
| 50° | 10818.0 | 8410.0 | 2340.6 | 1266.9 | 1199.5 | 1118.6 | 1042.3 | 992.9 | 983.9 | 965.9 | 965.9 |
| 52.5° | 12453.3 | 9573.6 | 2120.5 | 1235.4 | 1127.6 | 1060.2 | 979.4 | 925.5 | 903.0 | 885.0 | 885.0 |
| 55° | 14295.3 | 11015.7 | 2080.0 | 1181.5 | 1051.3 | 988.4 | 916.5 | 862.6 | 840.1 | 817.6 | 808.7 |
| 57.5° | 16393.3 | 12925.0 | 2367.6 | 1145.6 | 997.3 | 916.5 | 835.6 | 786.2 | 768.2 | 745.8 | 736.8 |
| 60° | 18347.5 | 14829.9 | 3261.6 | 1091.7 | 947.9 | 849.1 | 768.2 | 718.8 | 696.3 | 673.9 | 673.9 |
| 62.5° | 20607.3 | 17188.4 | 4775.6 | 1091.7 | 903.0 | 777.2 | 696.3 | 660.4 | 646.9 | 624.5 | 620.0 |
| 65° | 23280.3 | 19627.9 | 5880.7 | 1159.1 | 889.5 | 714.3 | 629.0 | 593.0 | 579.5 | 566.1 | 561.6 |
| 67.5° | 25315.5 | 21029.6 | 5058.6 | 1338.8 | 947.9 | 660.4 | 561.6 | 539.1 | 530.1 | 516.6 | 507.7 |
| 70° | 25531.1 | 20176.0 | 3050.4 | 1446.6 | 1006.3 | 606.5 | 503.2 | 480.7 | 480.7 | 467.2 | 458.2 |
| 72.5° | 23594.8 | 17902.8 | 2053.1 | 1289.4 | 912.0 | 543.6 | 444.8 | 426.8 | 417.8 | 408.8 | 404.3 |
| 75° | 19744.7 | 15184.8 | 1621.8 | 1028.8 | 700.8 | 449.3 | 386.4 | 368.4 | 354.9 | 350.4 | 341.4 |
| 77.5° | 13262.0 | 9870.1 | 1199.5 | 804.2 | 516.6 | 363.9 | 323.5 | 305.5 | 292.0 | 287.5 | 274.0 |
| 80° | 5094.5 | 3760.3 | 772.7 | 584.0 | 363.9 | 287.5 | 256.1 | 238.1 | 229.1 | 215.6 | 206.7 |
| 82.5° | 1500.5 | 1217.5 | 431.3 | 359.4 | 233.6 | 197.7 | 184.2 | 170.7 | 157.2 | 143.8 | 139.3 |
| 85° | 620.0 | 557.1 | 265.1 | 188.7 | 143.8 | 116.8 | 107.8 | 94.3 | 80.9 | 71.9 | 62.9 |
| 87.5° | 287.5 | 238.1 | 121.3 | 71.9 | 49.4 | 27.0 | 13.5 | 4.5 | 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)