

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: P480488

Luminaire Tested: **IFLD-L-SA8B-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480488
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

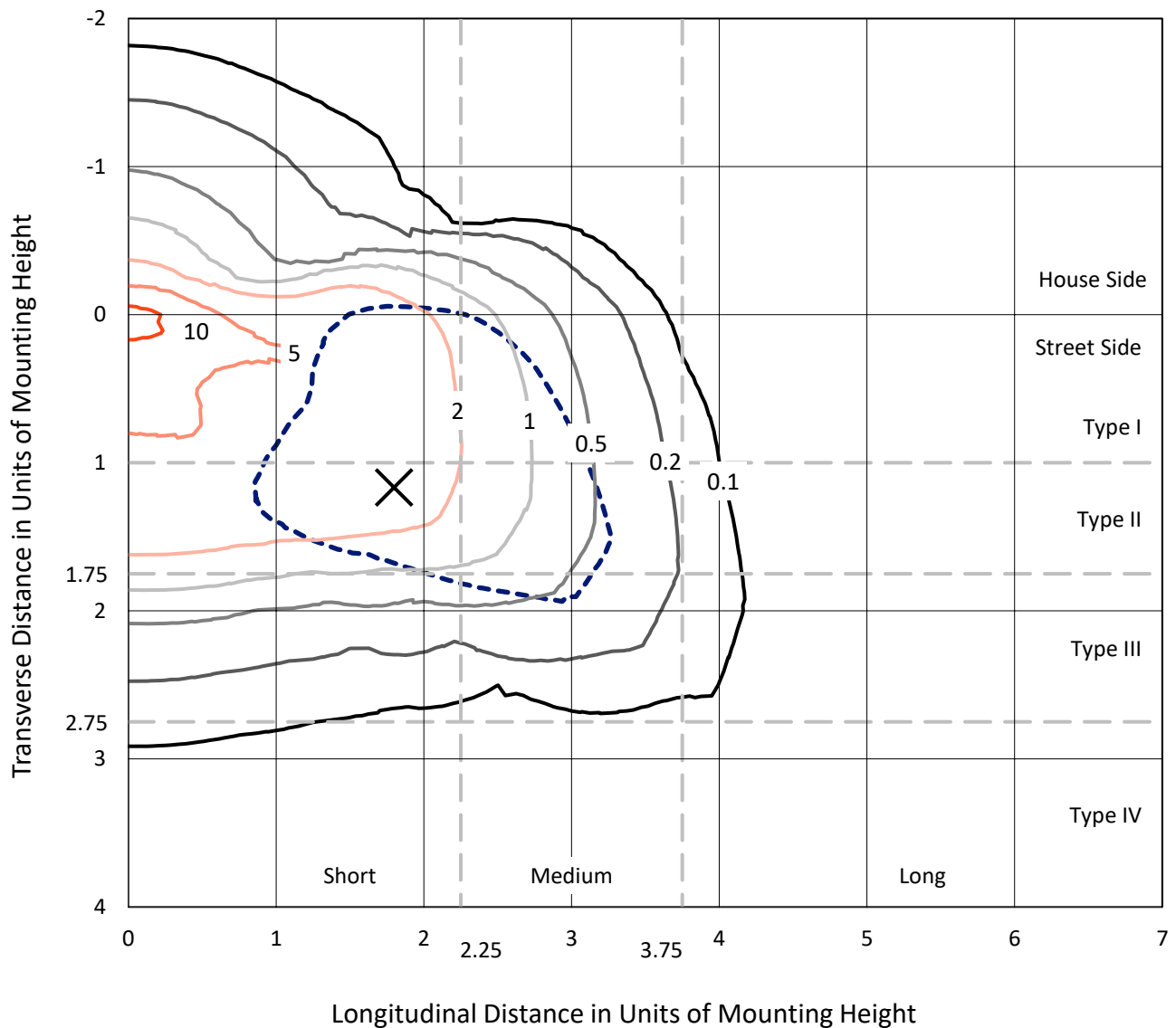
Lumens per Lamp: N/A
Luminaire Lumens: 39608.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

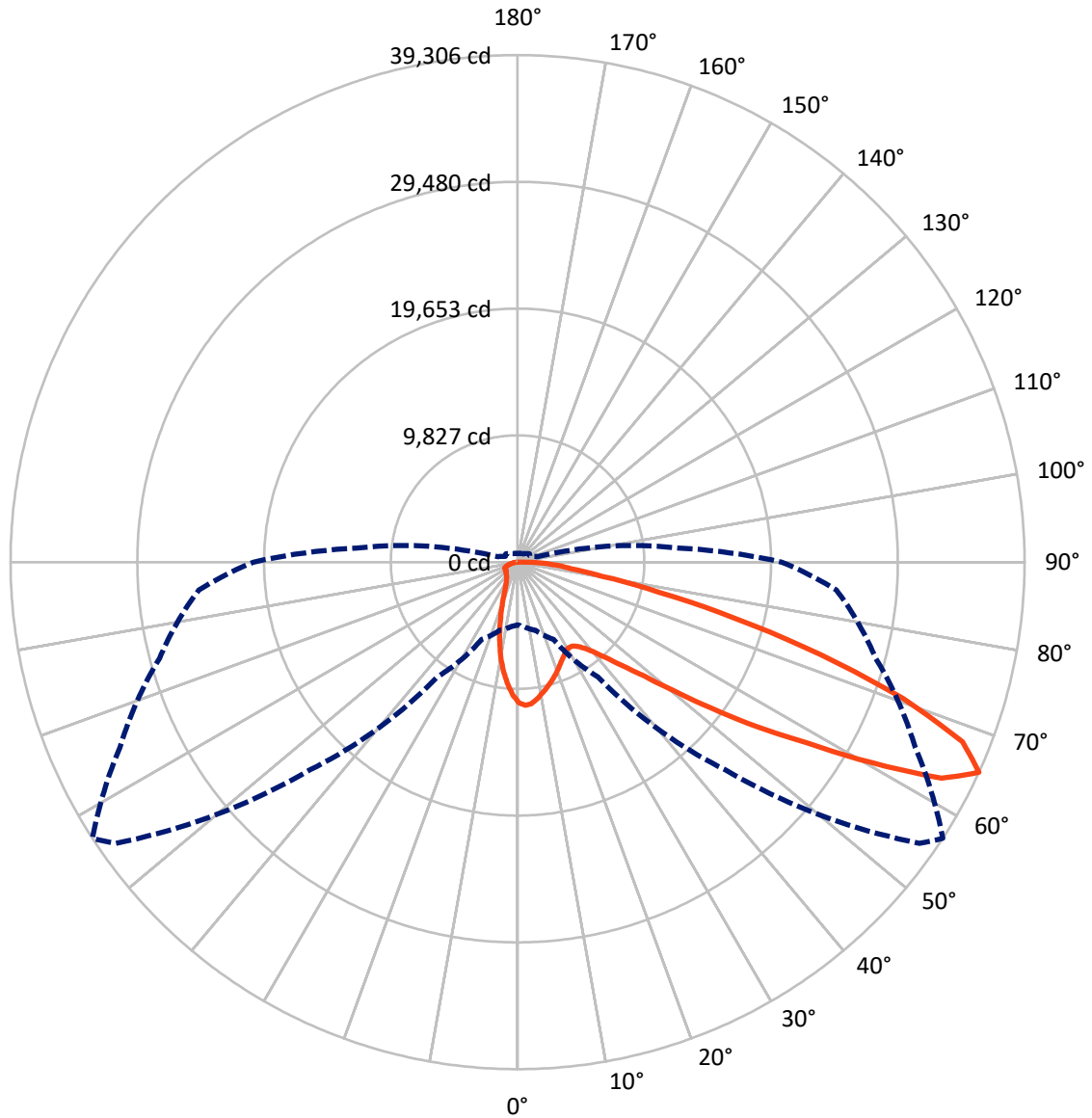
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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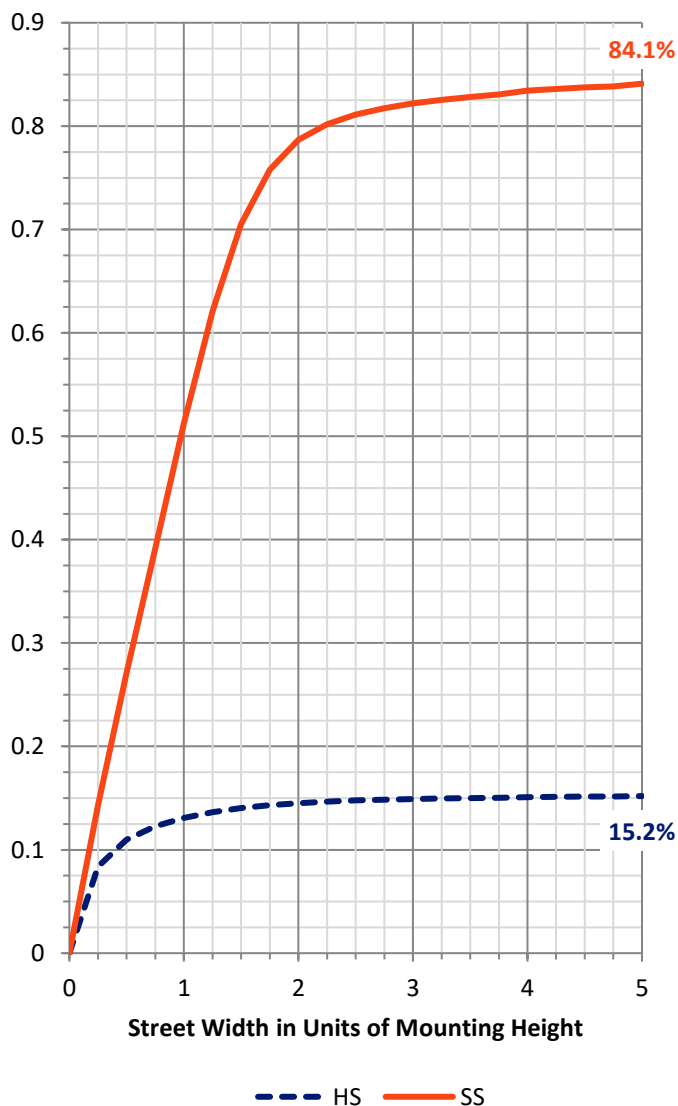
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6074.3 | 0.0 | 6074.3 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 33534.0 | 0.0 | 33534.0 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 39608.3 | 0.0 | 39608.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 912.1 | 2.3 |
| 10°-20° | 1963.0 | 5.0 |
| 20°-30° | 2538.0 | 6.4 |
| 30°-40° | 3415.3 | 8.6 |
| 40°-50° | 5445.8 | 13.7 |
| 50°-60° | 9618.6 | 24.3 |
| 60°-70° | 10581.7 | 26.7 |
| 70°-80° | 4426.5 | 11.2 |
| 80°-90° | 707.4 | 1.8 |
| 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° | 39608.3 | 100.0 |
| 0°-180° | 39608.3 | 100.0 |

Coefficient of Utilization



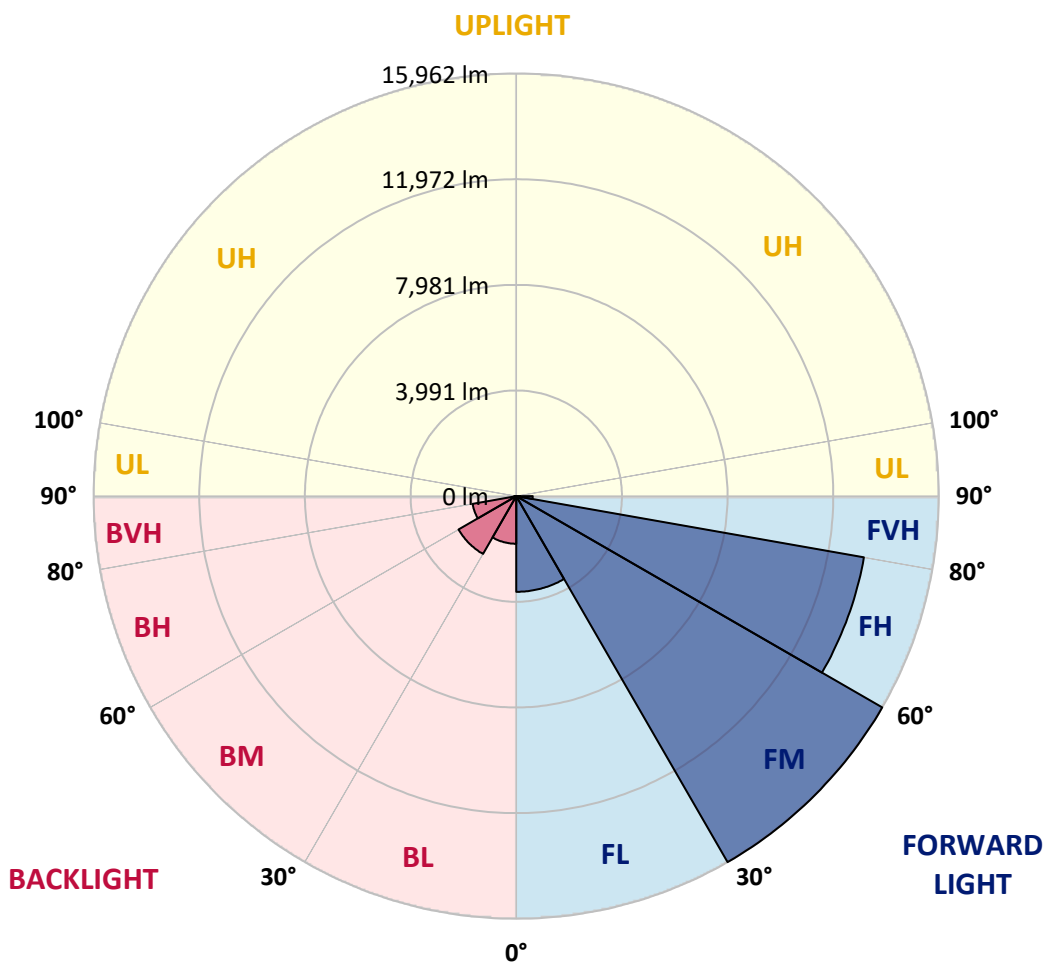
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3614.1 | 9.1 | | | |
| FM (30°-60°) | 15962.1 | 40.3 | | | |
| FH (60°-80°) | 13333.3 | 33.7 | | | G5 |
| FVH (80°-90°) | 624.5 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1798.9 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 2517.5 | 6.4 | B3/5000 | | |
| BH (60°-80°) | 1674.9 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 83.0 | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 |
| 2.5° | 11185.8 | 11203.7 | 11203.7 | 11239.3 | 11119.0 | 11176.9 | 11168.0 | 11114.5 | 11132.4 | 11038.8 | 10945.2 |
| 5° | 10869.4 | 10856.1 | 10927.4 | 10936.3 | 11029.9 | 11056.6 | 11078.9 | 11043.2 | 11052.1 | 10847.1 | 10758.0 |
| 7.5° | 10058.3 | 10053.9 | 10174.2 | 10276.7 | 10472.8 | 10655.5 | 10775.8 | 10740.2 | 10789.2 | 10660.0 | 10450.5 |
| 10° | 9095.7 | 9198.2 | 9323.0 | 9425.5 | 9786.5 | 10018.2 | 10330.2 | 10361.4 | 10548.6 | 10517.4 | 10138.6 |
| 12.5° | 8373.8 | 8418.4 | 8511.9 | 8806.1 | 9135.8 | 9519.1 | 9964.8 | 10004.9 | 10187.6 | 10276.7 | 9946.9 |
| 15° | 7781.1 | 7821.2 | 7941.5 | 8159.9 | 8529.8 | 8984.3 | 9550.3 | 9652.8 | 10018.2 | 10049.4 | 9697.4 |
| 17.5° | 7348.8 | 7380.0 | 7460.2 | 7678.6 | 7981.6 | 8565.4 | 9100.2 | 9282.9 | 9764.2 | 9915.7 | 9438.9 |
| 20° | 7179.4 | 7112.6 | 7157.2 | 7295.3 | 7598.4 | 8048.5 | 8739.2 | 8899.7 | 9514.7 | 9813.2 | 9193.8 |
| 22.5° | 7103.7 | 7045.7 | 7072.5 | 7063.6 | 7304.2 | 7625.1 | 8351.5 | 8520.8 | 9278.5 | 9692.9 | 8975.4 |
| 25° | 7161.6 | 7161.6 | 7134.9 | 7112.6 | 7139.3 | 7348.8 | 7932.6 | 8195.5 | 8962.0 | 9590.4 | 8752.6 |
| 27.5° | 7473.6 | 7353.2 | 7366.6 | 7273.0 | 7246.3 | 7246.3 | 7745.4 | 7901.4 | 8859.5 | 9532.5 | 8569.9 |
| 30° | 7674.1 | 7732.0 | 7736.5 | 7598.4 | 7460.2 | 7210.6 | 7571.6 | 7723.1 | 8774.9 | 9603.8 | 8462.9 |
| 32.5° | 8186.6 | 8159.9 | 8084.1 | 8057.4 | 7852.4 | 7571.6 | 7656.3 | 7758.8 | 8725.8 | 9764.2 | 8494.1 |
| 35° | 8699.1 | 8685.7 | 8690.2 | 8676.8 | 8462.9 | 8048.5 | 7883.6 | 8021.7 | 8815.0 | 10045.0 | 8601.1 |
| 37.5° | 9229.4 | 9265.1 | 9416.6 | 9416.6 | 9189.3 | 8739.2 | 8520.8 | 8480.7 | 9140.3 | 10504.0 | 8855.1 |
| 40° | 9759.8 | 9848.9 | 10040.5 | 10343.6 | 10022.7 | 9603.8 | 9251.7 | 9189.3 | 9532.5 | 11119.0 | 9465.6 |
| 42.5° | 10267.8 | 10414.9 | 10793.7 | 11243.8 | 11136.8 | 10717.9 | 10250.0 | 10178.7 | 10339.1 | 12032.6 | 10316.8 |
| 45° | 10918.5 | 11043.2 | 11640.4 | 12331.2 | 12478.2 | 12108.3 | 11560.2 | 11502.3 | 11493.3 | 13369.5 | 11488.9 |
| 47.5° | 11907.8 | 12041.5 | 12638.7 | 13333.9 | 13788.4 | 13846.4 | 13231.4 | 13169.0 | 12955.1 | 15174.4 | 13204.6 |
| 50° | 13146.7 | 13365.1 | 13868.7 | 14679.7 | 15339.3 | 15958.8 | 15785.0 | 15602.2 | 15183.3 | 17273.4 | 15379.4 |
| 52.5° | 14051.4 | 14318.8 | 15000.6 | 16039.0 | 17202.1 | 18187.0 | 18810.9 | 18810.9 | 17848.3 | 19577.5 | 17995.4 |
| 55° | 14292.0 | 14452.5 | 15312.6 | 16814.4 | 18806.5 | 21297.7 | 22603.4 | 22505.4 | 21021.4 | 22001.8 | 21039.2 |
| 57.5° | 13333.9 | 13543.3 | 14586.2 | 16159.3 | 19648.8 | 24207.8 | 26369.2 | 26391.5 | 24488.5 | 24818.3 | 24042.9 |
| 60° | 10695.6 | 10762.5 | 11992.5 | 14095.9 | 18837.7 | 26551.9 | 31512.0 | 31596.7 | 28432.5 | 27327.3 | 25571.5 |
| 62.5° | 7393.4 | 7607.3 | 8534.2 | 10379.2 | 15606.7 | 26289.0 | 36472.1 | 36891.0 | 31592.2 | 28650.9 | 25812.1 |
| 65° | 4866.5 | 4995.7 | 5490.4 | 6613.5 | 10865.0 | 22786.1 | 38014.0 | 39306.4 | 34007.6 | 28726.7 | 24804.9 |
| 67.5° | 3529.6 | 3551.8 | 3698.9 | 4278.3 | 6528.8 | 16386.6 | 35380.2 | 37203.0 | 34912.3 | 28093.8 | 22443.0 |
| 70° | 2852.2 | 2870.0 | 2923.5 | 3293.4 | 4215.9 | 10254.4 | 28855.9 | 31712.5 | 32198.3 | 25094.6 | 18075.6 |
| 72.5° | 2317.4 | 2339.7 | 2406.5 | 2754.1 | 3476.1 | 5704.3 | 21101.6 | 24582.1 | 26190.9 | 18565.8 | 12014.8 |
| 75° | 1822.7 | 1840.5 | 2001.0 | 2344.1 | 3266.6 | 3917.3 | 13997.9 | 17407.1 | 17625.5 | 10851.6 | 5624.1 |
| 77.5° | 1247.8 | 1279.0 | 1475.1 | 1987.6 | 3075.0 | 3427.1 | 8725.8 | 11150.2 | 10004.9 | 4247.1 | 1934.1 |
| 80° | 793.3 | 837.8 | 953.7 | 1506.3 | 2718.5 | 3271.1 | 5428.0 | 6658.0 | 4380.8 | 1452.8 | 931.4 |
| 82.5° | 467.9 | 512.5 | 628.4 | 976.0 | 2134.7 | 3034.9 | 3823.7 | 4166.8 | 2054.5 | 744.2 | 561.5 |
| 85° | 258.5 | 289.7 | 378.8 | 588.3 | 1252.3 | 2696.2 | 3061.6 | 2990.3 | 1176.5 | 396.6 | 352.1 |
| 87.5° | 84.7 | 98.0 | 138.2 | 236.2 | 517.0 | 1270.1 | 1836.1 | 1724.7 | 610.5 | 182.7 | 138.2 |
| 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° | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 | 10891.7 |
| 2.5° | 10882.8 | 10869.4 | 10668.9 | 10517.4 | 10258.9 | 10045.0 | 9960.3 | 9844.4 | 9840.0 | 9755.3 | 9733.0 |
| 5° | 10619.9 | 10481.7 | 10174.2 | 9880.1 | 9421.1 | 9113.6 | 8832.8 | 8636.7 | 8556.5 | 8382.7 | 8342.6 |
| 7.5° | 10281.2 | 10098.5 | 9626.1 | 9073.5 | 8534.2 | 8052.9 | 7616.2 | 7179.4 | 6934.3 | 6849.7 | 6756.1 |
| 10° | 9929.1 | 9608.2 | 8908.6 | 8289.1 | 7536.0 | 6796.2 | 6109.9 | 5494.9 | 5160.6 | 4924.4 | 4821.9 |
| 12.5° | 9648.3 | 9220.5 | 8329.2 | 7402.3 | 6408.5 | 5419.1 | 4621.4 | 3975.2 | 3596.4 | 3418.1 | 3337.9 |
| 15° | 9331.9 | 8766.0 | 7696.4 | 6524.3 | 5285.4 | 4162.4 | 3382.5 | 2874.4 | 2722.9 | 2638.3 | 2624.9 |
| 17.5° | 8997.7 | 8342.6 | 7010.1 | 5659.8 | 4189.1 | 3132.9 | 2629.3 | 2424.3 | 2357.5 | 2321.8 | 2304.0 |
| 20° | 8685.7 | 7963.8 | 6306.0 | 4697.2 | 3280.0 | 2513.5 | 2277.3 | 2170.3 | 2165.9 | 2183.7 | 2179.2 |
| 22.5° | 8244.5 | 7469.1 | 5610.7 | 3805.9 | 2620.4 | 2188.1 | 2036.6 | 2009.9 | 2036.6 | 2058.9 | 2067.8 |
| 25° | 7995.0 | 7063.6 | 4835.3 | 3021.5 | 2165.9 | 1943.0 | 1894.0 | 1885.1 | 1925.2 | 1952.0 | 1947.5 |
| 27.5° | 7736.5 | 6644.7 | 4113.4 | 2419.9 | 1898.5 | 1769.2 | 1760.3 | 1769.2 | 1809.3 | 1849.5 | 1845.0 |
| 30° | 7536.0 | 6310.4 | 3436.0 | 2023.3 | 1693.5 | 1644.5 | 1635.5 | 1644.5 | 1666.7 | 1671.2 | 1671.2 |
| 32.5° | 7371.1 | 5913.8 | 2861.1 | 1755.9 | 1568.7 | 1528.6 | 1537.5 | 1533.0 | 1537.5 | 1542.0 | 1546.4 |
| 35° | 7273.0 | 5677.6 | 2388.7 | 1591.0 | 1466.2 | 1435.0 | 1430.5 | 1417.2 | 1421.6 | 1426.1 | 1421.6 |
| 37.5° | 7482.5 | 5561.7 | 2014.3 | 1475.1 | 1394.9 | 1368.1 | 1359.2 | 1350.3 | 1337.0 | 1337.0 | 1337.0 |
| 40° | 7798.9 | 5499.3 | 1787.1 | 1399.3 | 1341.4 | 1310.2 | 1283.5 | 1274.6 | 1274.6 | 1279.0 | 1283.5 |
| 42.5° | 8427.3 | 5601.8 | 1631.1 | 1341.4 | 1274.6 | 1238.9 | 1212.2 | 1216.6 | 1230.0 | 1243.4 | 1234.5 |
| 45° | 9336.4 | 5913.8 | 1559.8 | 1296.8 | 1234.5 | 1185.4 | 1167.6 | 1163.1 | 1176.5 | 1198.8 | 1216.6 |
| 47.5° | 10526.3 | 6399.6 | 1533.0 | 1256.7 | 1207.7 | 1140.9 | 1118.6 | 1132.0 | 1149.8 | 1181.0 | 1167.6 |
| 50° | 12473.8 | 7491.4 | 1555.3 | 1221.1 | 1167.6 | 1118.6 | 1091.8 | 1078.5 | 1091.8 | 1114.1 | 1123.0 |
| 52.5° | 15018.4 | 9474.5 | 1640.0 | 1203.3 | 1140.9 | 1100.8 | 1056.2 | 1033.9 | 1047.3 | 1065.1 | 1065.1 |
| 55° | 18062.2 | 12184.1 | 1876.2 | 1181.0 | 1096.3 | 1074.0 | 1025.0 | 980.4 | 989.3 | 989.3 | 984.9 |
| 57.5° | 20745.1 | 14229.6 | 2157.0 | 1149.8 | 1069.6 | 1038.4 | 976.0 | 922.5 | 913.6 | 918.0 | 922.5 |
| 60° | 21948.3 | 14773.3 | 2290.6 | 1140.9 | 1069.6 | 993.8 | 909.1 | 855.7 | 842.3 | 833.4 | 833.4 |
| 62.5° | 21738.9 | 13833.0 | 2018.8 | 1100.8 | 1096.3 | 958.1 | 846.7 | 788.8 | 771.0 | 753.2 | 757.6 |
| 65° | 20473.2 | 12491.6 | 1591.0 | 1047.3 | 1100.8 | 935.9 | 784.3 | 726.4 | 695.2 | 672.9 | 668.5 |
| 67.5° | 18160.3 | 10664.4 | 1261.2 | 1007.2 | 1056.2 | 895.8 | 730.9 | 664.0 | 637.3 | 615.0 | 606.1 |
| 70° | 14207.4 | 8360.4 | 1096.3 | 953.7 | 949.2 | 797.7 | 668.5 | 610.5 | 570.4 | 543.7 | 543.7 |
| 72.5° | 9211.6 | 5285.4 | 940.3 | 846.7 | 820.0 | 668.5 | 579.3 | 543.7 | 512.5 | 490.2 | 490.2 |
| 75° | 4171.3 | 2455.5 | 757.6 | 708.6 | 668.5 | 534.8 | 490.2 | 472.4 | 445.7 | 423.4 | 423.4 |
| 77.5° | 1497.4 | 1047.3 | 566.0 | 557.1 | 499.1 | 414.5 | 396.6 | 383.3 | 365.4 | 343.2 | 343.2 |
| 80° | 837.8 | 664.0 | 423.4 | 405.5 | 347.6 | 307.5 | 285.2 | 285.2 | 276.3 | 262.9 | 258.5 |
| 82.5° | 530.3 | 432.3 | 312.0 | 271.8 | 227.3 | 205.0 | 196.1 | 191.6 | 187.2 | 169.3 | 164.9 |
| 85° | 334.2 | 294.1 | 205.0 | 160.4 | 133.7 | 102.5 | 98.0 | 93.6 | 84.7 | 75.8 | 75.8 |
| 87.5° | 151.5 | 169.3 | 80.2 | 49.0 | 35.7 | 22.3 | 13.4 | 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)