

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: P484778

Luminaire Tested: **IFLD-L-SA8B-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484778
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-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

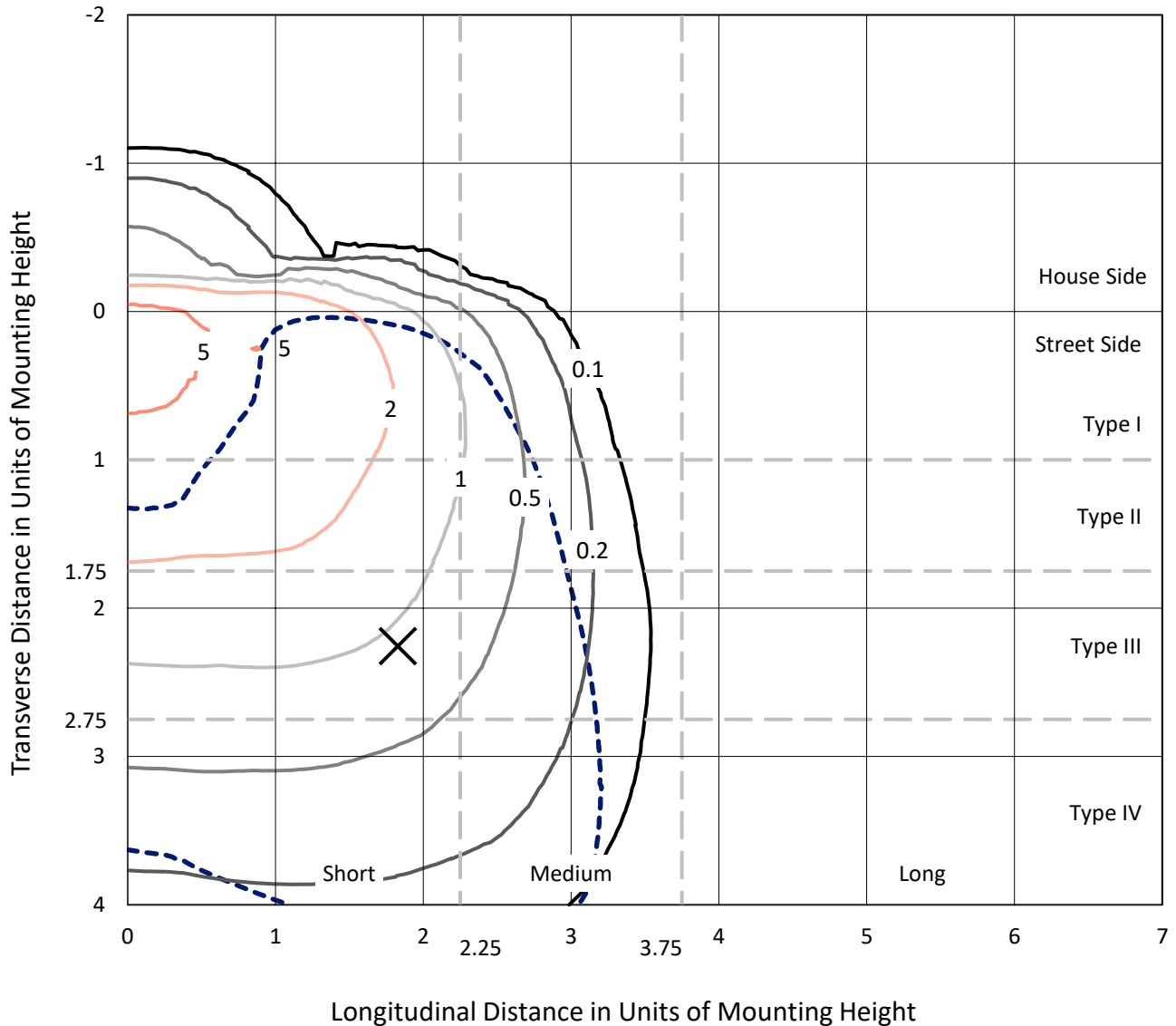
Lumens per Lamp: N/A
Luminaire Lumens: 33161.3 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

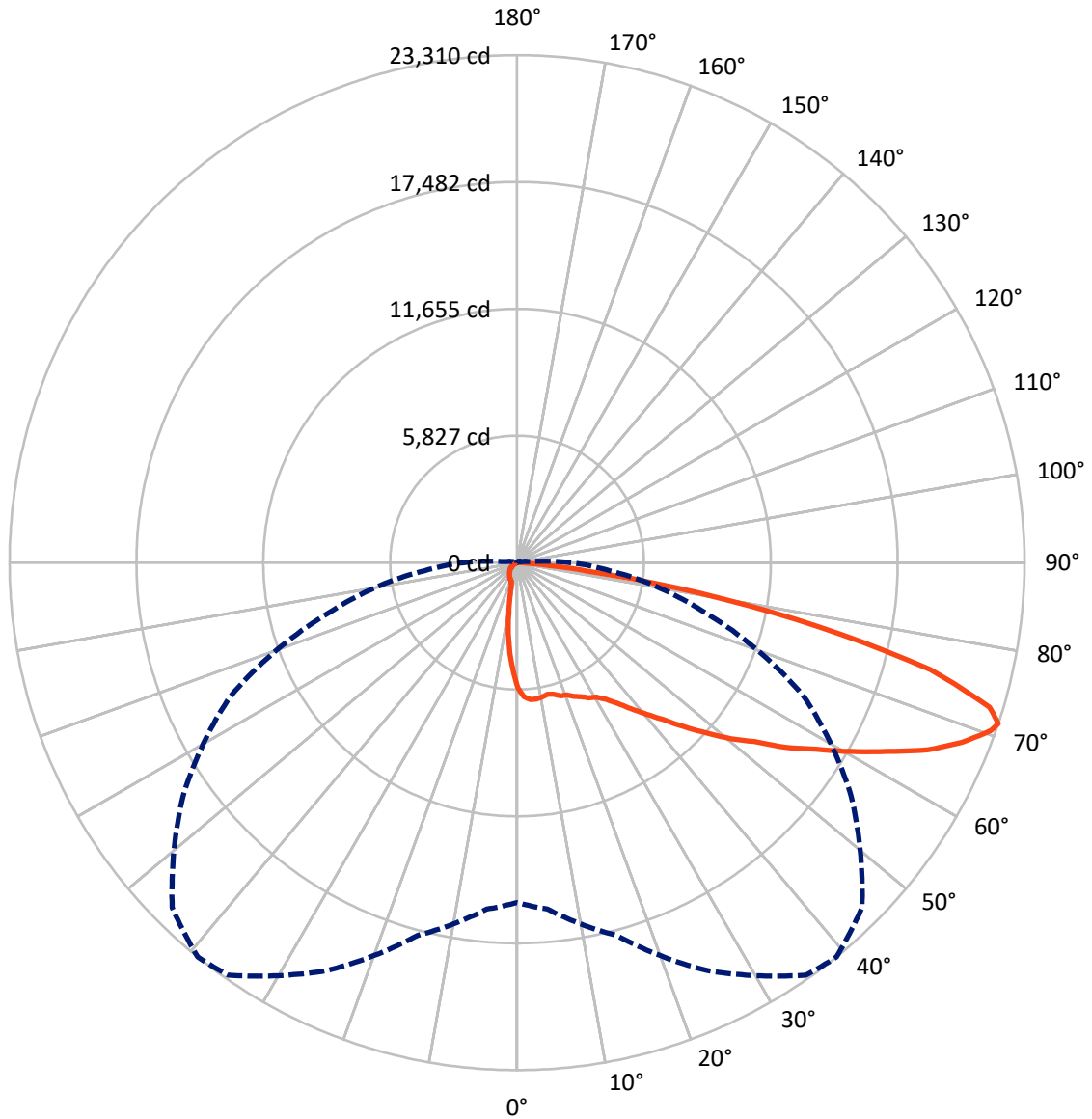
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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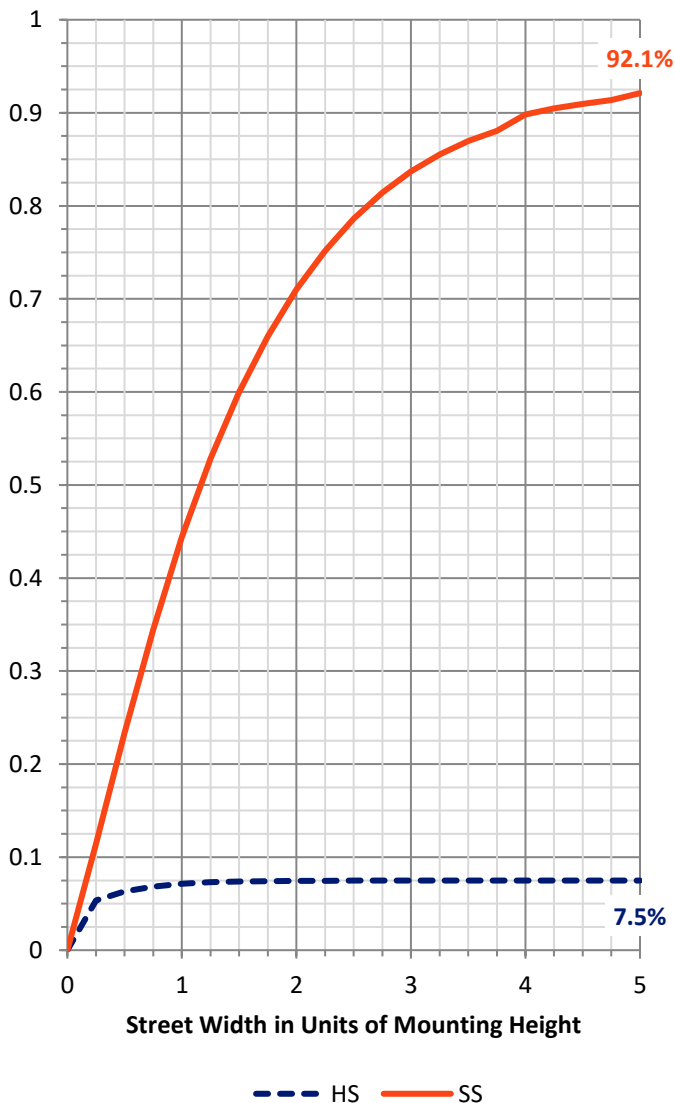
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2496.5 | 0.0 | 2496.5 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 30664.8 | 0.0 | 30664.8 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 33161.3 | 0.0 | 33161.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 482.6 | 1.5 |
| 10°-20° | 1187.8 | 3.6 |
| 20°-30° | 1906.8 | 5.8 |
| 30°-40° | 2918.8 | 8.8 |
| 40°-50° | 4685.2 | 14.1 |
| 50°-60° | 6881.8 | 20.8 |
| 60°-70° | 8667.4 | 26.1 |
| 70°-80° | 5784.4 | 17.4 |
| 80°-90° | 646.4 | 1.9 |
| 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° | 33161.3 | 100.0 |
| 0°-180° | 33161.3 | 100.0 |

Coefficient of Utilization



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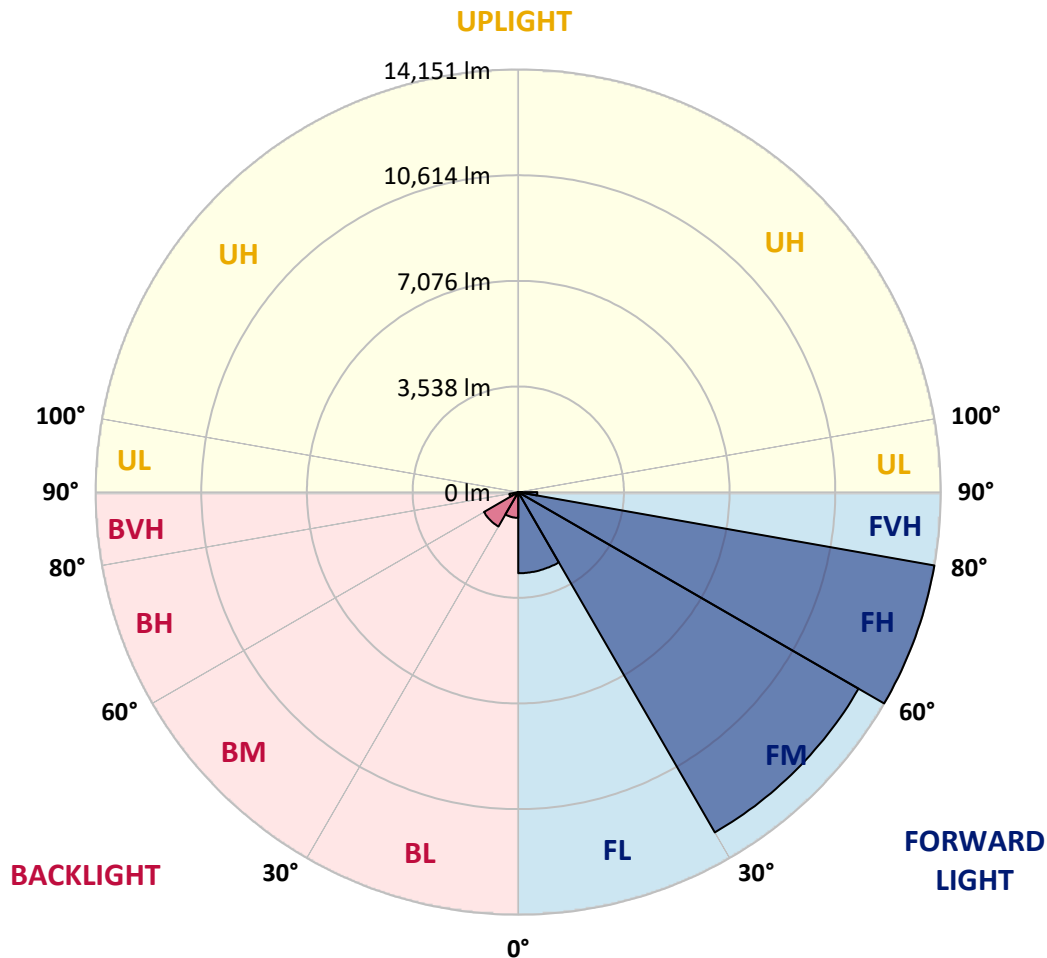
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2715.2 | 8.2 | | | |
| FM (30°-60°) | 13158.9 | 39.7 | | | |
| FH (60°-80°) | 14151.3 | 42.7 | | | G5 |
| FVH (80°-90°) | 639.3 | 1.9 | | | G4/750 |
| BL (0°-30°) | 861.9 | 2.6 | B2/1000 | | |
| BM (30°-60°) | 1327.0 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 300.5 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 |
| 2.5° | 6219.9 | 6280.8 | 6219.9 | 6193.8 | 6167.7 | 6172.1 | 6102.5 | 6115.6 | 6032.9 | 5924.2 | 5837.2 |
| 5° | 6415.7 | 6498.3 | 6433.1 | 6402.6 | 6398.3 | 6315.6 | 6280.8 | 6198.2 | 6098.2 | 5928.5 | 5824.1 |
| 7.5° | 6398.3 | 6380.9 | 6411.3 | 6385.2 | 6328.7 | 6328.7 | 6289.5 | 6172.1 | 6072.1 | 5880.7 | 5702.3 |
| 10° | 6267.8 | 6320.0 | 6293.9 | 6263.4 | 6276.5 | 6280.8 | 6206.9 | 6124.2 | 6093.8 | 5902.4 | 5611.0 |
| 12.5° | 6254.7 | 6167.7 | 6263.4 | 6267.8 | 6211.2 | 6206.9 | 6198.2 | 6176.4 | 6080.8 | 5906.8 | 5632.7 |
| 15° | 6211.2 | 6176.4 | 6272.1 | 6276.5 | 6289.5 | 6276.5 | 6289.5 | 6272.1 | 6176.4 | 6076.4 | 5728.4 |
| 17.5° | 6246.0 | 6206.9 | 6341.7 | 6407.0 | 6376.5 | 6437.4 | 6415.7 | 6337.4 | 6254.7 | 6137.3 | 5819.8 |
| 20° | 6254.7 | 6311.3 | 6459.2 | 6485.3 | 6581.0 | 6480.9 | 6476.6 | 6393.9 | 6341.7 | 6215.6 | 5876.3 |
| 22.5° | 6415.7 | 6441.8 | 6624.5 | 6681.0 | 6685.3 | 6672.3 | 6563.6 | 6467.9 | 6446.1 | 6289.5 | 5889.4 |
| 25° | 6659.3 | 6750.6 | 6833.2 | 6868.0 | 6881.1 | 6820.2 | 6707.1 | 6585.3 | 6533.1 | 6433.1 | 6024.2 |
| 27.5° | 7089.9 | 7033.3 | 7107.3 | 7159.5 | 7011.6 | 7033.3 | 6889.8 | 6785.4 | 6711.4 | 6624.5 | 6180.8 |
| 30° | 7472.6 | 7420.4 | 7424.8 | 7416.1 | 7289.9 | 7172.5 | 7133.4 | 6950.7 | 6859.3 | 6894.1 | 6424.4 |
| 32.5° | 7816.2 | 7703.2 | 7798.8 | 7755.4 | 7520.5 | 7485.7 | 7455.2 | 7224.7 | 7242.1 | 7403.0 | 6789.7 |
| 35° | 8133.8 | 8094.6 | 8172.9 | 8094.6 | 7938.0 | 7929.3 | 7898.9 | 7698.8 | 7794.5 | 8025.0 | 7416.1 |
| 37.5° | 8425.2 | 8438.2 | 8533.9 | 8494.8 | 8507.8 | 8516.5 | 8499.1 | 8286.0 | 8560.0 | 9077.6 | 8146.8 |
| 40° | 8694.9 | 8677.5 | 8912.3 | 9034.1 | 9060.2 | 9155.9 | 9155.9 | 9103.7 | 9525.6 | 10108.5 | 9160.3 |
| 42.5° | 8981.9 | 9025.4 | 9329.9 | 9534.3 | 9782.3 | 9864.9 | 9978.0 | 10004.1 | 10656.5 | 11322.0 | 10195.5 |
| 45° | 9451.7 | 9377.8 | 9764.9 | 10247.7 | 10465.2 | 10756.6 | 10930.6 | 11078.5 | 11865.7 | 12779.2 | 11230.7 |
| 47.5° | 10047.6 | 9899.7 | 10239.0 | 10939.3 | 11443.8 | 11683.0 | 11996.2 | 12192.0 | 12961.8 | 13905.7 | 12209.4 |
| 50° | 10708.7 | 10556.5 | 10721.8 | 11687.4 | 12274.6 | 12709.6 | 13109.7 | 13357.6 | 14288.5 | 15167.1 | 12922.7 |
| 52.5° | 11456.9 | 11317.7 | 11343.8 | 12466.0 | 13331.6 | 13649.1 | 14175.4 | 14545.1 | 15471.6 | 15928.3 | 13175.0 |
| 55° | 12252.8 | 12218.1 | 12135.4 | 13227.2 | 14258.0 | 14971.4 | 15288.9 | 15732.5 | 16685.1 | 16341.5 | 13449.0 |
| 57.5° | 13053.2 | 12944.4 | 13061.9 | 14236.3 | 15745.6 | 16171.8 | 16611.2 | 16876.5 | 17359.3 | 16702.5 | 13344.6 |
| 60° | 13805.7 | 13814.4 | 13979.6 | 15332.4 | 17011.3 | 17615.9 | 18011.7 | 17850.8 | 18050.9 | 16859.1 | 13105.4 |
| 62.5° | 14440.7 | 14423.3 | 14840.9 | 16563.3 | 18685.9 | 19094.8 | 19390.6 | 18672.9 | 18372.7 | 17011.3 | 12687.8 |
| 65° | 15010.5 | 15206.2 | 15863.0 | 18029.1 | 20260.5 | 20730.2 | 20551.9 | 19451.5 | 18685.9 | 16563.3 | 11513.4 |
| 67.5° | 15441.1 | 15732.5 | 16872.1 | 19408.0 | 21704.5 | 22035.1 | 21787.2 | 20043.0 | 18316.2 | 14806.1 | 9377.8 |
| 70° | 15693.4 | 15989.2 | 17594.2 | 20556.3 | 22857.2 | 23096.4 | 22513.6 | 19586.3 | 16158.8 | 10721.8 | 5850.2 |
| 71° | 15615.1 | 15976.1 | 17733.4 | 20678.0 | 23131.2 | 23309.6 | 22404.8 | 18742.5 | 14532.0 | 8977.6 | 4267.0 |
| 72.5° | 14906.1 | 15245.4 | 17154.9 | 20591.0 | 22800.7 | 22691.9 | 21556.7 | 16715.5 | 11439.5 | 5724.1 | 2205.3 |
| 75° | 10952.3 | 11317.7 | 14723.4 | 17811.6 | 20351.8 | 19603.7 | 17446.3 | 11730.9 | 5967.7 | 1752.9 | 643.7 |
| 77.5° | 5454.4 | 5515.3 | 9138.5 | 12931.4 | 14927.9 | 14184.1 | 11691.7 | 6541.8 | 2231.3 | 517.6 | 321.9 |
| 80° | 2514.1 | 2531.5 | 3427.5 | 6698.4 | 9025.4 | 8494.8 | 6550.5 | 3227.4 | 1009.1 | 274.0 | 252.3 |
| 82.5° | 1713.7 | 1739.8 | 2066.1 | 2775.1 | 3919.0 | 3305.7 | 2653.3 | 2066.1 | 578.5 | 165.3 | 247.9 |
| 85° | 313.2 | 287.1 | 1157.0 | 1470.2 | 1513.7 | 1026.5 | 917.8 | 1787.7 | 217.5 | 95.7 | 217.5 |
| 87.5° | 0.0 | 4.3 | 160.9 | 600.2 | 539.4 | 239.2 | 313.2 | 435.0 | 21.7 | 30.4 | 39.1 |
| 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° | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 | 5771.9 |
| 2.5° | 5763.2 | 5715.4 | 5554.5 | 5376.1 | 5215.2 | 5089.0 | 4928.1 | 4854.2 | 4736.7 | 4671.5 | 4667.1 |
| 5° | 5680.6 | 5550.1 | 5271.7 | 4971.6 | 4636.7 | 4358.3 | 4049.5 | 3875.5 | 3675.4 | 3614.5 | 3601.5 |
| 7.5° | 5541.4 | 5354.4 | 4945.5 | 4523.6 | 4010.3 | 3518.8 | 3140.4 | 2735.9 | 2488.0 | 2383.6 | 2344.4 |
| 10° | 5454.4 | 5228.2 | 4671.5 | 4040.8 | 3323.1 | 2631.5 | 2100.9 | 1670.2 | 1444.1 | 1335.3 | 1309.2 |
| 12.5° | 5454.4 | 5210.8 | 4449.7 | 3579.7 | 2627.2 | 1800.7 | 1300.5 | 1052.6 | 978.7 | 952.6 | 952.6 |
| 15° | 5441.4 | 5176.0 | 4236.5 | 3105.6 | 1944.3 | 1209.2 | 970.0 | 917.8 | 909.1 | 904.7 | 900.4 |
| 17.5° | 5506.6 | 5115.1 | 4019.0 | 2596.7 | 1374.5 | 952.6 | 891.7 | 883.0 | 874.3 | 874.3 | 865.6 |
| 20° | 5554.5 | 5080.3 | 3758.1 | 2057.4 | 1026.5 | 883.0 | 856.9 | 843.8 | 839.5 | 835.1 | 843.8 |
| 22.5° | 5515.3 | 5028.1 | 3436.2 | 1539.8 | 896.0 | 839.5 | 822.1 | 809.0 | 800.3 | 800.3 | 804.7 |
| 25° | 5589.2 | 4980.3 | 3114.3 | 1161.3 | 839.5 | 800.3 | 782.9 | 774.2 | 769.9 | 765.5 | 756.8 |
| 27.5° | 5689.3 | 5002.1 | 2731.6 | 935.2 | 791.6 | 761.2 | 743.8 | 735.1 | 730.7 | 722.0 | 730.7 |
| 30° | 5811.1 | 4997.7 | 2309.6 | 817.7 | 748.1 | 717.7 | 700.3 | 695.9 | 687.2 | 682.9 | 687.2 |
| 32.5° | 6019.9 | 5110.8 | 1874.7 | 756.8 | 700.3 | 674.2 | 656.8 | 652.4 | 648.1 | 643.7 | 639.4 |
| 35° | 6467.9 | 5250.0 | 1465.8 | 709.0 | 656.8 | 626.3 | 613.3 | 604.6 | 600.2 | 595.9 | 591.5 |
| 37.5° | 7020.3 | 5558.8 | 1117.8 | 665.5 | 613.3 | 582.8 | 569.8 | 565.4 | 548.1 | 543.7 | 539.4 |
| 40° | 7711.9 | 5889.4 | 861.2 | 617.6 | 574.1 | 543.7 | 530.7 | 517.6 | 495.9 | 487.2 | 478.5 |
| 42.5° | 8573.1 | 6211.2 | 709.0 | 574.1 | 530.7 | 508.9 | 487.2 | 465.4 | 448.0 | 430.6 | 421.9 |
| 45° | 9434.3 | 6585.3 | 622.0 | 535.0 | 495.9 | 469.8 | 452.4 | 421.9 | 391.5 | 365.4 | 361.0 |
| 47.5° | 10152.0 | 6720.1 | 569.8 | 491.5 | 461.1 | 439.3 | 413.2 | 374.1 | 330.6 | 304.5 | 300.1 |
| 50° | 10687.0 | 6641.9 | 517.6 | 448.0 | 421.9 | 400.2 | 365.4 | 317.5 | 274.0 | 247.9 | 239.2 |
| 52.5° | 10791.4 | 6298.2 | 469.8 | 413.2 | 382.8 | 356.7 | 317.5 | 265.3 | 217.5 | 191.4 | 187.0 |
| 55° | 10717.4 | 5728.4 | 430.6 | 382.8 | 348.0 | 308.8 | 265.3 | 213.1 | 169.6 | 143.5 | 139.2 |
| 57.5° | 10565.2 | 5054.2 | 387.1 | 343.6 | 304.5 | 265.3 | 217.5 | 174.0 | 126.1 | 100.0 | 100.0 |
| 60° | 10047.6 | 4136.5 | 343.6 | 300.1 | 261.0 | 226.2 | 178.3 | 126.1 | 87.0 | 65.2 | 60.9 |
| 62.5° | 9325.6 | 3179.6 | 300.1 | 256.6 | 226.2 | 187.0 | 139.2 | 91.3 | 52.2 | 34.8 | 34.8 |
| 65° | 8007.6 | 2227.0 | 252.3 | 213.1 | 187.0 | 152.2 | 104.4 | 56.5 | 30.4 | 13.0 | 13.0 |
| 67.5° | 6085.1 | 1378.8 | 208.8 | 178.3 | 160.9 | 121.8 | 73.9 | 34.8 | 13.0 | 4.3 | 0.0 |
| 70° | 3492.7 | 717.7 | 165.3 | 143.5 | 126.1 | 91.3 | 52.2 | 17.4 | 8.7 | 0.0 | 0.0 |
| 71° | 2440.1 | 530.7 | 147.9 | 126.1 | 113.1 | 82.6 | 43.5 | 13.0 | 4.3 | 0.0 | 0.0 |
| 72.5° | 1222.2 | 352.3 | 126.1 | 104.4 | 91.3 | 65.2 | 34.8 | 13.0 | 4.3 | 0.0 | 0.0 |
| 75° | 435.0 | 226.2 | 87.0 | 69.6 | 65.2 | 47.8 | 21.7 | 8.7 | 4.3 | 0.0 | 0.0 |
| 77.5° | 300.1 | 182.7 | 60.9 | 43.5 | 43.5 | 30.4 | 13.0 | 4.3 | 4.3 | 0.0 | 0.0 |
| 80° | 274.0 | 100.0 | 39.1 | 26.1 | 21.7 | 17.4 | 8.7 | 4.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 274.0 | 73.9 | 21.7 | 17.4 | 13.0 | 8.7 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 191.4 | 39.1 | 13.0 | 13.0 | 8.7 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 30.4 | 13.0 | 8.7 | 4.3 | 4.3 | 0.0 | 0.0 | 0.0 | 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)