

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: P484068

Luminaire Tested: **IFLD-M-SA4D-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

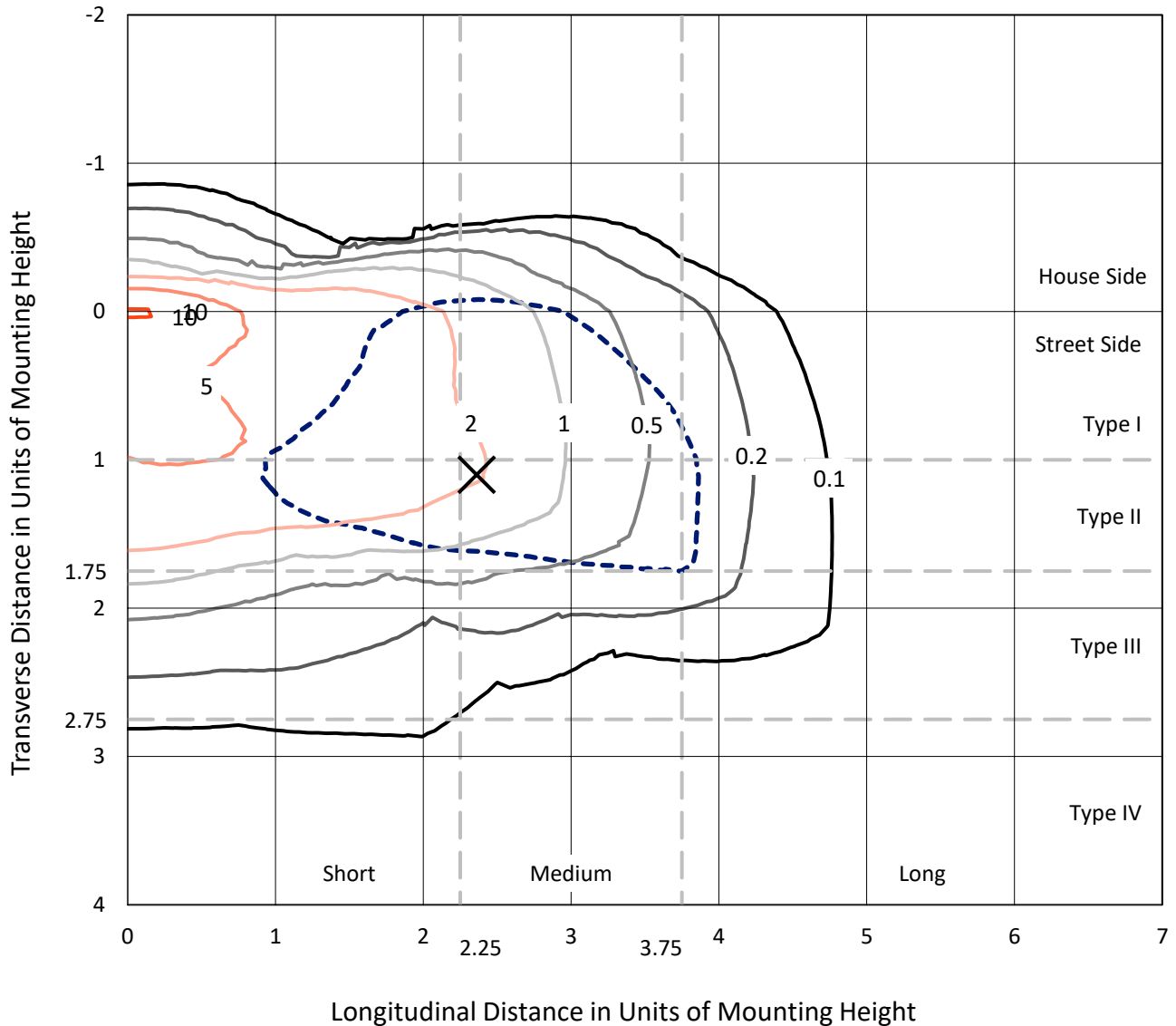
Lumens per Lamp: N/A
Luminaire Lumens: 26338 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

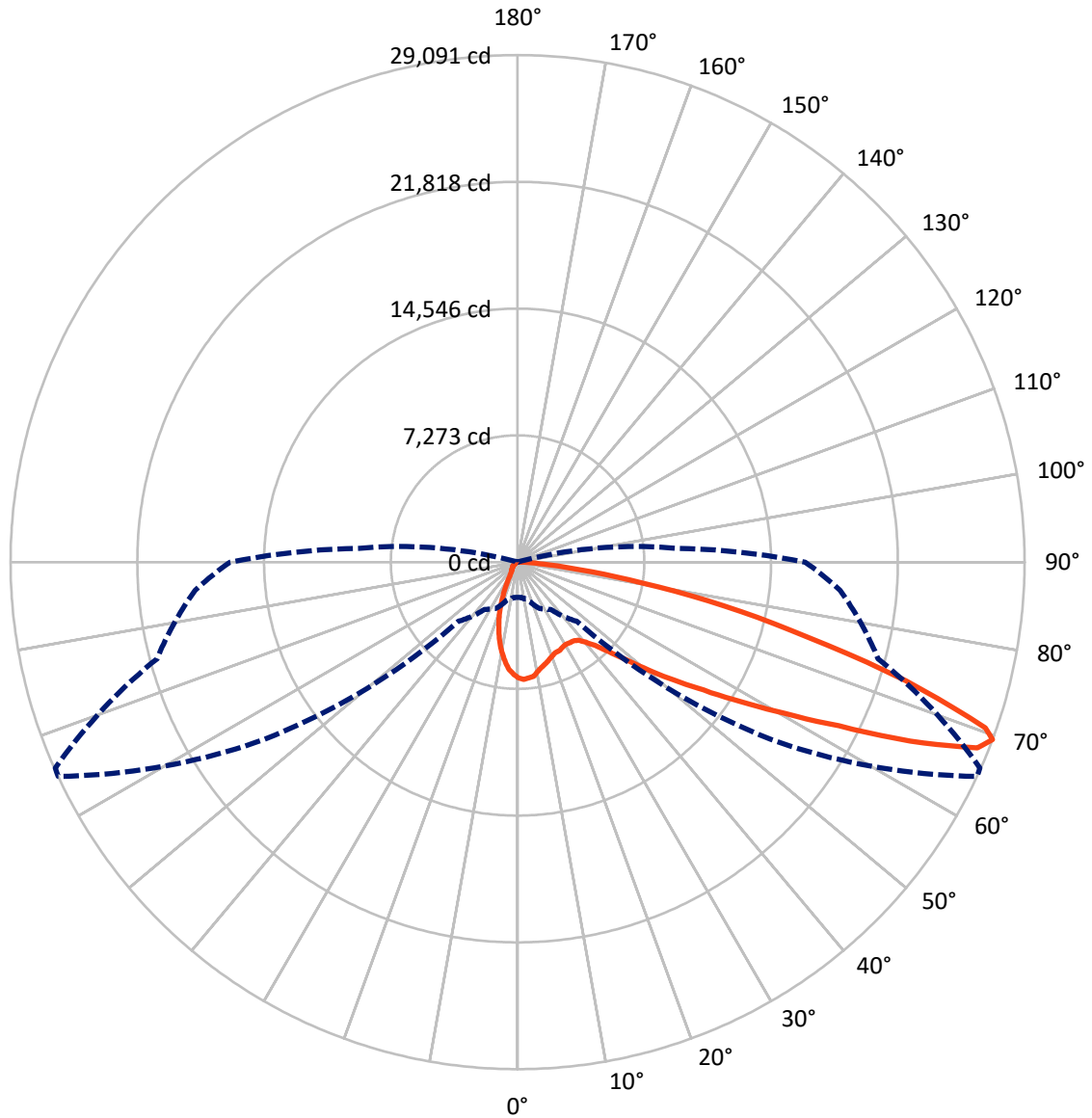
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Medium - N/A

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CATALOG NUMBER: IFLD-M-SA4D-750-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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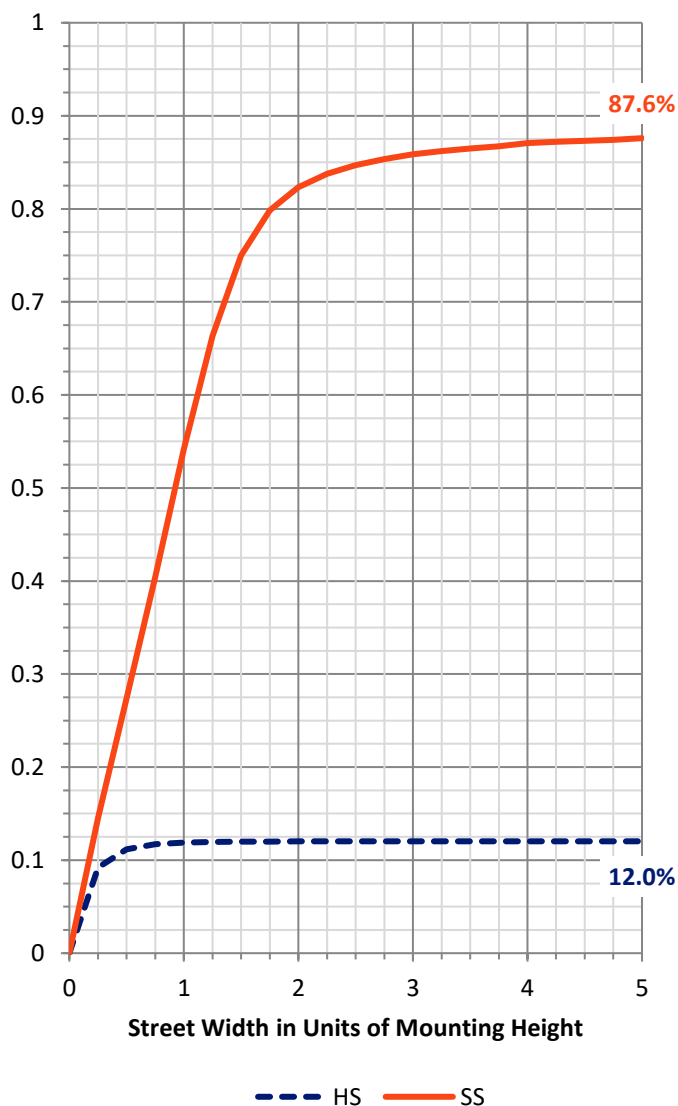
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3195.0 | 0.0 | 3195.0 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 23143.0 | 0.0 | 23143.0 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 26338.0 | 0.0 | 26338.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 543.4 | 2.1 |
| 10°-20° | 1189.0 | 4.5 |
| 20°-30° | 1655.3 | 6.3 |
| 30°-40° | 2345.7 | 8.9 |
| 40°-50° | 3696.7 | 14.0 |
| 50°-60° | 5998.5 | 22.8 |
| 60°-70° | 6699.2 | 25.4 |
| 70°-80° | 3772.4 | 14.3 |
| 80°-90° | 437.7 | 1.7 |
| 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° | 26338.0 | 100.0 |
| 0°-180° | 26338.0 | 100.0 |

Coefficient of Utilization

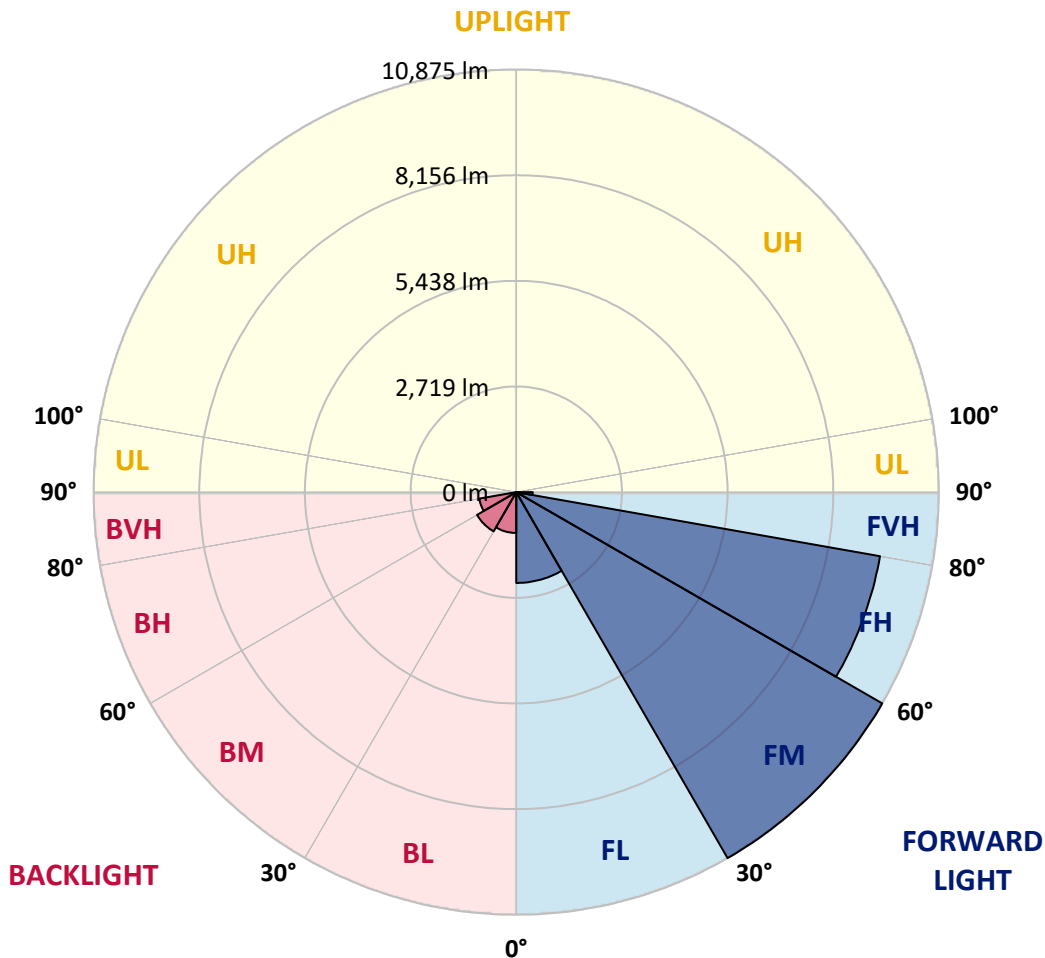


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2337.2 | 8.9 | | | |
| FM (30°-60°) | 10875.2 | 41.3 | | | |
| FH (60°-80°) | 9504.9 | 36.1 | | | G4/12000 |
| FVH (80°-90°) | 425.7 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1050.4 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 1165.8 | 4.4 | B2/2500 | | |
| BH (60°-80°) | 966.7 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 12.1 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 |
| 2.5° | 6395.3 | 6445.0 | 6459.2 | 6509.0 | 6533.8 | 6640.4 | 6700.8 | 6736.3 | 6718.6 | 6757.7 | 6761.2 |
| 5° | 5940.5 | 5912.1 | 5986.7 | 6040.0 | 6153.7 | 6338.4 | 6526.7 | 6672.4 | 6739.9 | 6803.8 | 6793.2 |
| 7.5° | 5453.7 | 5439.5 | 5514.1 | 5634.9 | 5738.0 | 5961.8 | 6263.8 | 6622.6 | 6608.4 | 6764.8 | 6810.9 |
| 10° | 5119.8 | 5134.0 | 5158.8 | 5279.6 | 5432.4 | 5659.8 | 6036.4 | 6370.4 | 6445.0 | 6775.4 | 6867.8 |
| 12.5° | 4814.2 | 4839.1 | 4885.3 | 5009.6 | 5187.3 | 5421.8 | 5787.7 | 6178.5 | 6292.2 | 6715.0 | 6899.8 |
| 15° | 4714.7 | 4657.9 | 4750.3 | 4842.6 | 5027.4 | 5237.0 | 5546.1 | 6032.9 | 6082.6 | 6644.0 | 6953.1 |
| 17.5° | 4633.0 | 4597.5 | 4640.1 | 4714.7 | 4910.1 | 5080.7 | 5372.0 | 5876.5 | 5968.9 | 6615.5 | 6946.0 |
| 20° | 4657.9 | 4625.9 | 4643.7 | 4700.5 | 4789.3 | 4949.2 | 5219.2 | 5727.3 | 5826.8 | 6484.1 | 6935.3 |
| 22.5° | 4728.9 | 4753.8 | 4721.8 | 4736.0 | 4764.5 | 4846.2 | 5137.5 | 5620.7 | 5706.0 | 6459.2 | 6995.7 |
| 25° | 5048.7 | 5006.1 | 4963.4 | 4945.7 | 4778.7 | 4814.2 | 5112.7 | 5613.6 | 5674.0 | 6370.4 | 6946.0 |
| 27.5° | 5382.7 | 5347.1 | 5329.4 | 5226.3 | 4999.0 | 4892.4 | 5116.2 | 5514.1 | 5595.8 | 6334.9 | 6885.6 |
| 30° | 5787.7 | 5833.9 | 5762.8 | 5638.5 | 5322.3 | 5059.4 | 5155.3 | 5464.4 | 5578.1 | 6199.8 | 6846.5 |
| 32.5° | 6214.1 | 6238.9 | 6274.5 | 6182.1 | 5773.5 | 5311.6 | 5272.5 | 5510.6 | 5517.7 | 6199.8 | 6757.7 |
| 35° | 6697.3 | 6661.7 | 6754.1 | 6761.2 | 6402.4 | 5759.3 | 5496.4 | 5542.6 | 5617.2 | 6171.4 | 6725.7 |
| 37.5° | 7112.9 | 7173.3 | 7279.9 | 7450.5 | 7081.0 | 6391.7 | 5844.6 | 5691.8 | 5723.8 | 6302.9 | 6750.5 |
| 40° | 7567.7 | 7628.1 | 7869.7 | 8040.3 | 7830.6 | 7102.3 | 6373.9 | 6040.0 | 6064.8 | 6498.3 | 6878.5 |
| 42.5° | 8068.7 | 8185.9 | 8473.7 | 8772.2 | 8715.3 | 8004.7 | 7056.1 | 6551.6 | 6540.9 | 6985.0 | 7141.4 |
| 45° | 8747.3 | 8903.6 | 9216.3 | 9560.9 | 9610.6 | 9038.6 | 7965.6 | 7315.5 | 7351.0 | 7621.0 | 7685.0 |
| 47.5° | 9692.4 | 9685.3 | 9990.8 | 10374.5 | 10662.3 | 10111.6 | 9052.8 | 8342.3 | 8338.7 | 8626.5 | 8491.5 |
| 50° | 10605.5 | 10609.0 | 10690.7 | 11134.9 | 11881.0 | 11600.3 | 10399.4 | 9706.6 | 9667.5 | 9809.6 | 9592.9 |
| 52.5° | 11028.3 | 10978.5 | 10918.1 | 11454.6 | 12818.9 | 13476.2 | 12104.8 | 11252.1 | 11220.1 | 11134.9 | 11078.0 |
| 55° | 10584.2 | 10601.9 | 10598.4 | 11156.2 | 13312.8 | 15455.2 | 14293.4 | 12953.9 | 12900.7 | 12634.2 | 12712.3 |
| 57.5° | 9159.4 | 9102.6 | 9226.9 | 10097.4 | 12747.9 | 16805.3 | 17423.5 | 15099.9 | 14961.3 | 14076.7 | 13899.0 |
| 60° | 6818.1 | 6835.8 | 6938.9 | 7965.6 | 11344.5 | 17089.5 | 20418.6 | 17618.9 | 17022.0 | 15092.8 | 14847.7 |
| 62.5° | 4760.9 | 4725.4 | 4764.5 | 5340.0 | 8111.3 | 15952.6 | 22443.8 | 20681.6 | 20106.0 | 16247.5 | 16105.4 |
| 65° | 3407.3 | 3361.1 | 3517.4 | 3869.1 | 4871.1 | 12197.2 | 22731.6 | 24760.3 | 24245.1 | 18091.5 | 17750.4 |
| 67.5° | 2451.5 | 2444.4 | 2625.6 | 3265.1 | 3460.5 | 7024.1 | 20599.8 | 28455.3 | 28142.7 | 20280.1 | 18752.3 |
| 69° | 2028.7 | 2032.3 | 2206.4 | 2924.1 | 3304.2 | 4796.4 | 17725.5 | 29091.3 | 29034.5 | 21409.9 | 18564.0 |
| 70° | 1769.4 | 1783.6 | 1986.1 | 2721.5 | 3240.3 | 3943.7 | 15281.1 | 28466.0 | 28409.2 | 21630.2 | 17942.2 |
| 72.5° | 1090.7 | 1101.4 | 1367.9 | 2181.5 | 3080.4 | 3218.9 | 9138.1 | 23289.4 | 23484.8 | 20621.2 | 15458.8 |
| 75° | 522.3 | 525.8 | 717.7 | 1577.5 | 2970.2 | 3052.0 | 4895.9 | 17185.5 | 17597.6 | 16649.0 | 12079.9 |
| 77.5° | 277.1 | 277.1 | 344.6 | 838.5 | 2405.3 | 2870.8 | 2906.3 | 12122.6 | 12463.6 | 10527.3 | 6867.8 |
| 80° | 138.6 | 142.1 | 209.6 | 437.0 | 1492.2 | 2813.9 | 2270.3 | 7230.2 | 7414.9 | 4295.5 | 2138.9 |
| 82.5° | 53.3 | 56.8 | 99.5 | 262.9 | 774.5 | 2376.9 | 1993.2 | 3556.5 | 3510.3 | 1005.5 | 522.3 |
| 85° | 7.1 | 7.1 | 35.5 | 156.3 | 330.4 | 1048.1 | 1645.0 | 1485.1 | 1435.4 | 220.3 | 252.3 |
| 87.5° | 0.0 | 0.0 | 7.1 | 46.2 | 99.5 | 305.6 | 636.0 | 408.6 | 454.8 | 60.4 | 124.4 |
| 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° | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 | 6640.4 |
| 2.5° | 6743.4 | 6668.8 | 6555.1 | 6445.0 | 6327.8 | 6185.6 | 6029.3 | 5972.5 | 5873.0 | 5865.9 | 5922.7 |
| 5° | 6736.3 | 6615.5 | 6416.6 | 6182.1 | 5848.1 | 5595.8 | 5322.3 | 5123.3 | 4970.5 | 4871.1 | 4895.9 |
| 7.5° | 6771.9 | 6626.2 | 6281.6 | 5777.0 | 5347.1 | 4846.2 | 4423.4 | 4132.0 | 3865.6 | 3734.1 | 3719.9 |
| 10° | 6715.0 | 6519.6 | 6015.1 | 5308.1 | 4675.6 | 3975.7 | 3357.5 | 2966.7 | 2568.8 | 2423.1 | 2430.2 |
| 12.5° | 6747.0 | 6473.4 | 5727.3 | 4824.9 | 3954.4 | 3044.9 | 2305.8 | 1772.9 | 1399.9 | 1279.1 | 1264.8 |
| 15° | 6768.3 | 6373.9 | 5450.2 | 4245.7 | 3155.0 | 2074.9 | 1335.9 | 1005.5 | 888.2 | 866.9 | 863.4 |
| 17.5° | 6686.6 | 6253.1 | 5059.4 | 3673.7 | 2337.8 | 1261.3 | 888.2 | 820.7 | 799.4 | 785.2 | 778.1 |
| 20° | 6683.0 | 6182.1 | 4721.8 | 3087.5 | 1559.7 | 859.8 | 767.4 | 742.6 | 710.6 | 699.9 | 699.9 |
| 22.5° | 6622.6 | 6032.9 | 4316.8 | 2444.4 | 994.8 | 739.0 | 689.3 | 650.2 | 614.7 | 600.4 | 596.9 |
| 25° | 6604.9 | 5858.8 | 3936.6 | 1836.9 | 756.8 | 660.8 | 611.1 | 554.3 | 511.6 | 490.3 | 479.6 |
| 27.5° | 6555.1 | 5709.5 | 3552.9 | 1293.3 | 660.8 | 589.8 | 525.8 | 465.4 | 415.7 | 383.7 | 380.2 |
| 30° | 6377.5 | 5553.2 | 3126.6 | 895.3 | 600.4 | 522.3 | 451.2 | 380.2 | 330.4 | 309.1 | 302.0 |
| 32.5° | 6302.9 | 5407.5 | 2661.1 | 689.3 | 547.1 | 461.9 | 380.2 | 316.2 | 277.1 | 255.8 | 252.3 |
| 35° | 6214.1 | 5194.4 | 2209.9 | 600.4 | 497.4 | 401.5 | 319.8 | 266.5 | 234.5 | 216.7 | 216.7 |
| 37.5° | 6224.7 | 5023.8 | 1787.1 | 543.6 | 444.1 | 344.6 | 273.6 | 227.4 | 199.0 | 181.2 | 181.2 |
| 40° | 6192.7 | 4888.8 | 1389.2 | 493.9 | 394.4 | 294.9 | 230.9 | 191.9 | 167.0 | 149.2 | 145.7 |
| 42.5° | 6338.4 | 4853.3 | 1048.1 | 451.2 | 344.6 | 252.3 | 199.0 | 163.4 | 138.6 | 117.2 | 117.2 |
| 45° | 6583.6 | 4910.1 | 817.2 | 412.1 | 294.9 | 216.7 | 170.5 | 135.0 | 110.1 | 95.9 | 92.4 |
| 47.5° | 7237.3 | 5134.0 | 639.5 | 380.2 | 252.3 | 188.3 | 142.1 | 110.1 | 88.8 | 74.6 | 71.1 |
| 50° | 8185.9 | 5634.9 | 543.6 | 334.0 | 213.2 | 159.9 | 117.2 | 85.3 | 71.1 | 56.8 | 53.3 |
| 52.5° | 9536.0 | 6477.0 | 493.9 | 294.9 | 177.6 | 131.5 | 92.4 | 67.5 | 53.3 | 42.6 | 39.1 |
| 55° | 11006.9 | 7528.6 | 447.7 | 248.7 | 149.2 | 106.6 | 74.6 | 53.3 | 39.1 | 28.4 | 24.9 |
| 57.5° | 12154.5 | 8438.2 | 408.6 | 206.1 | 120.8 | 85.3 | 56.8 | 39.1 | 28.4 | 17.8 | 14.2 |
| 60° | 13408.7 | 9077.7 | 358.8 | 163.4 | 99.5 | 64.0 | 42.6 | 28.4 | 21.3 | 10.7 | 10.7 |
| 62.5° | 14702.0 | 9827.4 | 294.9 | 127.9 | 78.2 | 49.7 | 32.0 | 21.3 | 14.2 | 3.6 | 3.6 |
| 65° | 16499.8 | 10413.6 | 227.4 | 99.5 | 60.4 | 35.5 | 24.9 | 17.8 | 7.1 | 0.0 | 0.0 |
| 67.5° | 17007.8 | 10125.8 | 167.0 | 78.2 | 42.6 | 24.9 | 17.8 | 10.7 | 3.6 | 0.0 | 0.0 |
| 69° | 16499.8 | 9120.3 | 145.7 | 67.5 | 35.5 | 21.3 | 14.2 | 7.1 | 3.6 | 0.0 | 0.0 |
| 70° | 15572.5 | 8338.7 | 127.9 | 56.8 | 32.0 | 21.3 | 10.7 | 7.1 | 3.6 | 0.0 | 0.0 |
| 72.5° | 13025.0 | 6395.3 | 99.5 | 42.6 | 24.9 | 17.8 | 10.7 | 7.1 | 0.0 | 0.0 | 0.0 |
| 75° | 9553.8 | 3950.8 | 74.6 | 32.0 | 21.3 | 14.2 | 10.7 | 7.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5119.8 | 1442.5 | 53.3 | 21.3 | 14.2 | 10.7 | 10.7 | 7.1 | 0.0 | 0.0 | 0.0 |
| 80° | 1403.4 | 426.4 | 39.1 | 14.2 | 10.7 | 7.1 | 7.1 | 3.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 383.7 | 110.1 | 24.9 | 14.2 | 10.7 | 7.1 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 206.1 | 42.6 | 14.2 | 10.7 | 7.1 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 106.6 | 14.2 | 10.7 | 7.1 | 7.1 | 3.6 | 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)