

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: P484772

Luminaire Tested: **IFLD-L-SA7A-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

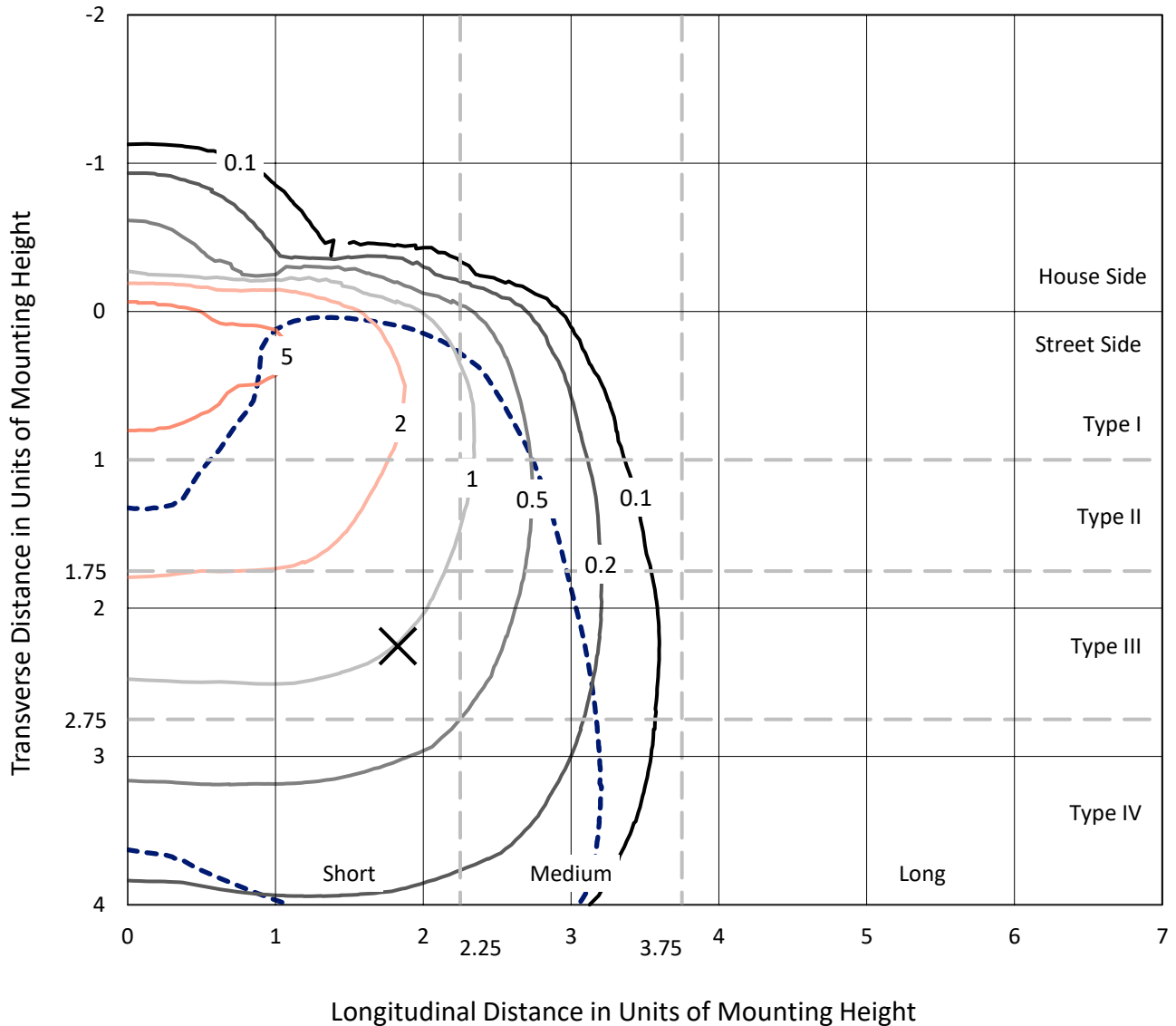
Lumens per Lamp: N/A
Luminaire Lumens: 25503.7 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

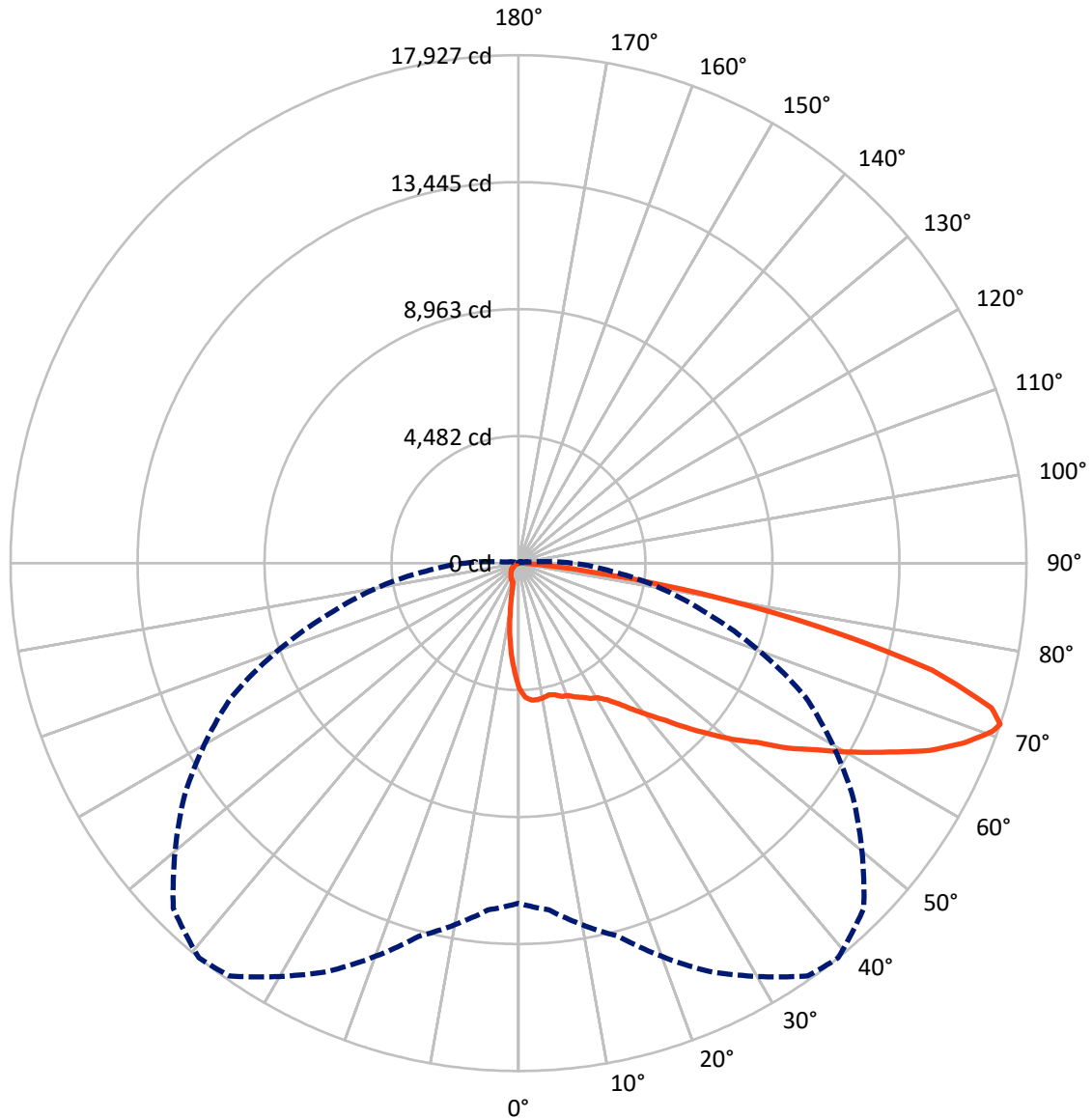
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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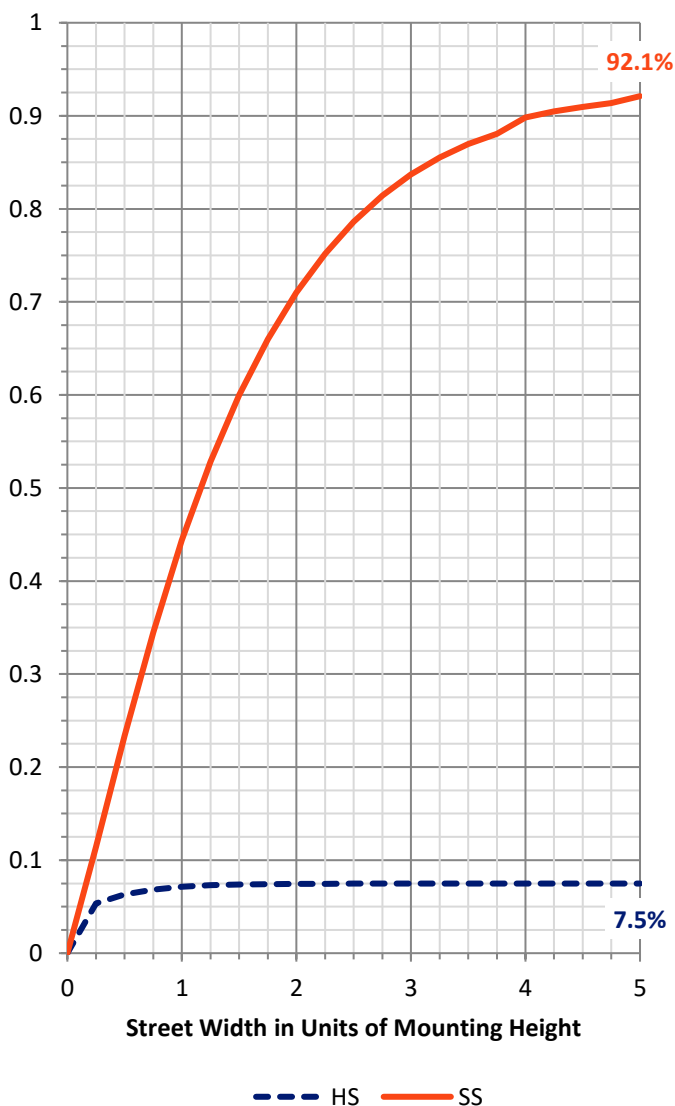
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1920.0 | 0.0 | 1920.0 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 23583.6 | 0.0 | 23583.6 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 25503.7 | 0.0 | 25503.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 371.1 | 1.5 |
| 10°-20° | 913.5 | 3.6 |
| 20°-30° | 1466.5 | 5.7 |
| 30°-40° | 2244.8 | 8.8 |
| 40°-50° | 3603.3 | 14.1 |
| 50°-60° | 5292.7 | 20.8 |
| 60°-70° | 6665.9 | 26.1 |
| 70°-80° | 4448.7 | 17.4 |
| 80°-90° | 497.2 | 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° | 25503.7 | 100.0 |
| 0°-180° | 25503.7 | 100.0 |

Coefficient of Utilization



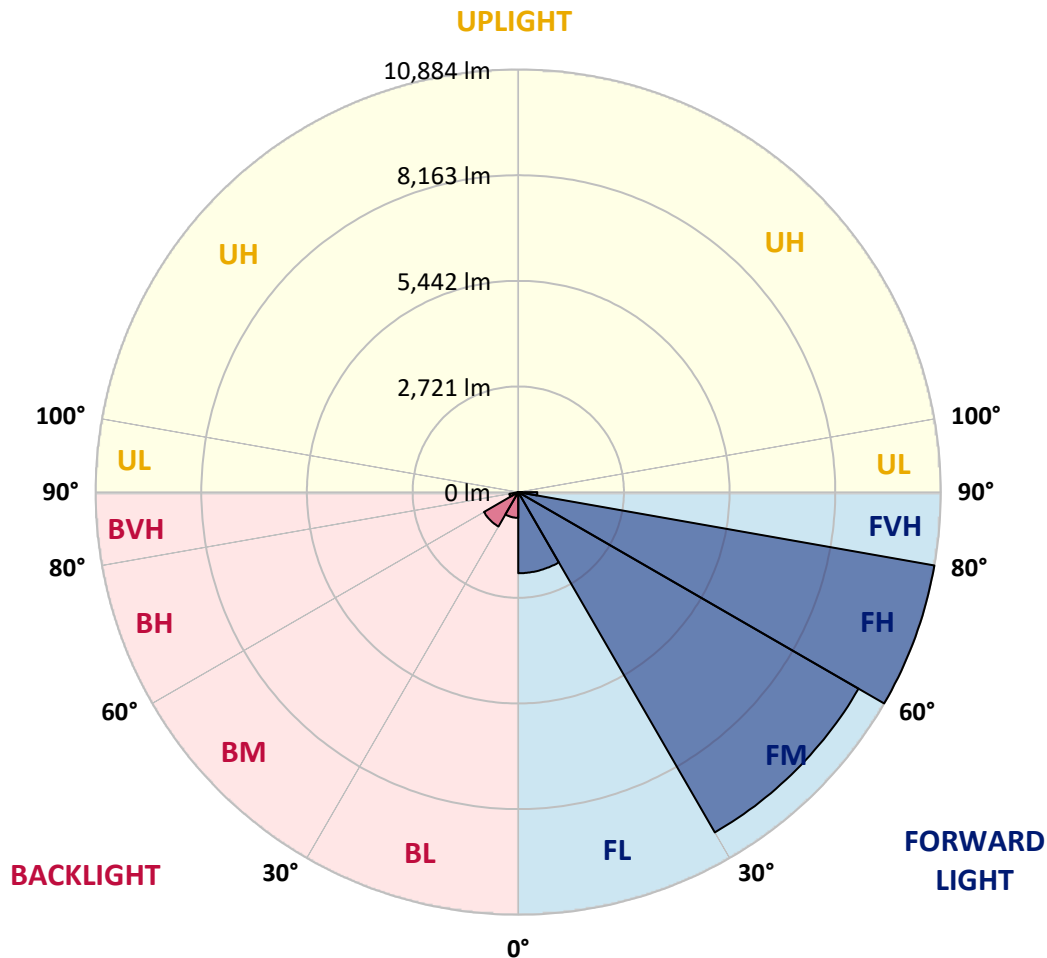
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2088.2 | 8.2 | | | |
| FM (30°-60°) | 10120.2 | 39.7 | | | |
| FH (60°-80°) | 10883.5 | 42.7 | | | G4/12000 |
| FVH (80°-90°) | 491.7 | 1.9 | | | G3/500 |
| BL (0°-30°) | 662.9 | 2.6 | B2/1000 | | |
| BM (30°-60°) | 1020.6 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 231.1 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.5 | 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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 |
| 2.5° | 4783.6 | 4830.5 | 4783.6 | 4763.6 | 4743.5 | 4746.8 | 4693.3 | 4703.3 | 4639.8 | 4556.2 | 4489.3 |
| 5° | 4934.2 | 4997.7 | 4947.5 | 4924.1 | 4920.8 | 4857.2 | 4830.5 | 4766.9 | 4690.0 | 4559.5 | 4479.2 |
| 7.5° | 4920.8 | 4907.4 | 4930.8 | 4910.7 | 4867.3 | 4867.3 | 4837.2 | 4746.8 | 4669.9 | 4522.7 | 4385.6 |
| 10° | 4820.4 | 4860.6 | 4840.5 | 4817.1 | 4827.1 | 4830.5 | 4773.6 | 4710.0 | 4686.6 | 4539.4 | 4315.3 |
| 12.5° | 4810.4 | 4743.5 | 4817.1 | 4820.4 | 4776.9 | 4773.6 | 4766.9 | 4750.2 | 4676.6 | 4542.8 | 4332.0 |
| 15° | 4776.9 | 4750.2 | 4823.8 | 4827.1 | 4837.2 | 4827.1 | 4837.2 | 4823.8 | 4750.2 | 4673.2 | 4405.6 |
| 17.5° | 4803.7 | 4773.6 | 4877.3 | 4927.5 | 4904.1 | 4950.9 | 4934.2 | 4873.9 | 4810.4 | 4720.1 | 4475.9 |
| 20° | 4810.4 | 4853.9 | 4967.6 | 4987.7 | 5061.3 | 4984.3 | 4981.0 | 4917.4 | 4877.3 | 4780.3 | 4519.4 |
| 22.5° | 4934.2 | 4954.2 | 5094.7 | 5138.2 | 5141.6 | 5131.5 | 5047.9 | 4974.3 | 4957.6 | 4837.2 | 4529.4 |
| 25° | 5121.5 | 5191.7 | 5255.3 | 5282.1 | 5292.1 | 5245.3 | 5158.3 | 5064.6 | 5024.5 | 4947.5 | 4633.1 |
| 27.5° | 5452.7 | 5409.2 | 5466.0 | 5506.2 | 5392.5 | 5409.2 | 5298.8 | 5218.5 | 5161.6 | 5094.7 | 4753.5 |
| 30° | 5747.0 | 5706.9 | 5710.2 | 5703.6 | 5606.5 | 5516.2 | 5486.1 | 5345.6 | 5275.4 | 5302.1 | 4940.9 |
| 32.5° | 6011.3 | 5924.3 | 5997.9 | 5964.5 | 5783.8 | 5757.1 | 5733.7 | 5556.4 | 5569.7 | 5693.5 | 5221.8 |
| 35° | 6255.5 | 6225.4 | 6285.6 | 6225.4 | 6105.0 | 6098.3 | 6074.9 | 5921.0 | 5994.6 | 6171.9 | 5703.6 |
| 37.5° | 6479.6 | 6489.7 | 6563.3 | 6533.2 | 6543.2 | 6549.9 | 6536.5 | 6372.6 | 6583.3 | 6981.4 | 6265.6 |
| 40° | 6687.0 | 6673.7 | 6854.3 | 6948.0 | 6968.0 | 7041.6 | 7041.6 | 7001.5 | 7326.0 | 7774.2 | 7045.0 |
| 42.5° | 6907.8 | 6941.3 | 7175.4 | 7332.7 | 7523.3 | 7586.9 | 7673.9 | 7693.9 | 8195.7 | 8707.5 | 7841.1 |
| 45° | 7269.1 | 7212.2 | 7510.0 | 7881.3 | 8048.5 | 8272.7 | 8406.5 | 8520.2 | 9125.7 | 9828.2 | 8637.3 |
| 47.5° | 7727.4 | 7613.7 | 7874.6 | 8413.2 | 8801.2 | 8985.2 | 9226.0 | 9376.6 | 9968.7 | 10694.6 | 9390.0 |
| 50° | 8235.9 | 8118.8 | 8245.9 | 8988.5 | 9440.1 | 9774.7 | 10082.4 | 10273.1 | 10989.0 | 11664.7 | 9938.6 |
| 52.5° | 8811.2 | 8704.2 | 8724.3 | 9587.3 | 10253.0 | 10497.2 | 10902.0 | 11186.3 | 11898.9 | 12250.1 | 10132.6 |
| 55° | 9423.4 | 9396.7 | 9333.1 | 10172.7 | 10965.5 | 11514.2 | 11758.4 | 12099.6 | 12832.2 | 12567.9 | 10343.3 |
| 57.5° | 10038.9 | 9955.3 | 10045.6 | 10948.8 | 12109.6 | 12437.4 | 12775.3 | 12979.4 | 13350.7 | 12845.5 | 10263.1 |
| 60° | 10617.6 | 10624.3 | 10751.5 | 11791.8 | 13083.1 | 13548.0 | 13852.5 | 13728.7 | 13882.6 | 12966.0 | 10079.1 |
| 62.5° | 11106.0 | 11092.7 | 11413.8 | 12738.5 | 14371.0 | 14685.4 | 14912.9 | 14360.9 | 14130.1 | 13083.1 | 9757.9 |
| 65° | 11544.3 | 11694.8 | 12199.9 | 13865.8 | 15581.9 | 15943.2 | 15806.0 | 14959.7 | 14371.0 | 12738.5 | 8854.7 |
| 67.5° | 11875.4 | 12099.6 | 12976.0 | 14926.3 | 16692.5 | 16946.8 | 16756.1 | 15414.7 | 14086.6 | 11387.0 | 7212.2 |
| 70° | 12069.5 | 12296.9 | 13531.3 | 15809.4 | 17579.0 | 17763.0 | 17314.7 | 15063.4 | 12427.4 | 8245.9 | 4499.3 |
| 71° | 12009.3 | 12286.9 | 13638.4 | 15903.1 | 17789.7 | 17926.9 | 17231.1 | 14414.4 | 11176.3 | 6904.5 | 3281.6 |
| 72.5° | 11464.0 | 11724.9 | 13193.4 | 15836.2 | 17535.5 | 17451.9 | 16578.8 | 12855.6 | 8797.9 | 4402.3 | 1696.0 |
| 75° | 8423.2 | 8704.2 | 11323.5 | 13698.6 | 15652.2 | 15076.8 | 13417.6 | 9022.0 | 4589.6 | 1348.1 | 495.1 |
| 77.5° | 4194.9 | 4241.7 | 7028.3 | 9945.3 | 11480.7 | 10908.7 | 8991.9 | 5031.2 | 1716.1 | 398.1 | 247.5 |
| 80° | 1933.5 | 1946.9 | 2636.0 | 5151.6 | 6941.3 | 6533.2 | 5037.9 | 2482.1 | 776.1 | 210.7 | 194.0 |
| 82.5° | 1318.0 | 1338.1 | 1589.0 | 2134.2 | 3014.0 | 2542.3 | 2040.6 | 1589.0 | 444.9 | 127.1 | 190.7 |
| 85° | 240.9 | 220.8 | 889.8 | 1130.7 | 1164.1 | 789.5 | 705.8 | 1374.9 | 167.3 | 73.6 | 167.3 |
| 87.5° | 0.0 | 3.3 | 123.8 | 461.6 | 414.8 | 184.0 | 240.9 | 334.5 | 16.7 | 23.4 | 30.1 |
| 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° | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 | 4439.1 |
| 2.5° | 4432.4 | 4395.6 | 4271.8 | 4134.7 | 4010.9 | 3913.9 | 3790.1 | 3733.2 | 3642.9 | 3592.7 | 3589.4 |
| 5° | 4368.8 | 4268.5 | 4054.4 | 3823.6 | 3566.0 | 3351.9 | 3114.4 | 2980.6 | 2826.7 | 2779.9 | 2769.8 |
| 7.5° | 4261.8 | 4117.9 | 3803.5 | 3479.0 | 3084.3 | 2706.3 | 2415.2 | 2104.1 | 1913.5 | 1833.2 | 1803.1 |
| 10° | 4194.9 | 4020.9 | 3592.7 | 3107.7 | 2555.7 | 2023.8 | 1615.7 | 1284.6 | 1110.6 | 1027.0 | 1006.9 |
| 12.5° | 4194.9 | 4007.5 | 3422.1 | 2753.1 | 2020.5 | 1384.9 | 1000.2 | 809.5 | 752.7 | 732.6 | 732.6 |
| 15° | 4184.8 | 3980.8 | 3258.2 | 2388.5 | 1495.3 | 930.0 | 746.0 | 705.8 | 699.1 | 695.8 | 692.5 |
| 17.5° | 4235.0 | 3933.9 | 3091.0 | 1997.1 | 1057.1 | 732.6 | 685.8 | 679.1 | 672.4 | 672.4 | 665.7 |
| 20° | 4271.8 | 3907.2 | 2890.2 | 1582.3 | 789.5 | 679.1 | 659.0 | 649.0 | 645.6 | 642.3 | 649.0 |
| 22.5° | 4241.7 | 3867.0 | 2642.7 | 1184.2 | 689.1 | 645.6 | 632.2 | 622.2 | 615.5 | 615.5 | 618.9 |
| 25° | 4298.6 | 3830.2 | 2395.2 | 893.2 | 645.6 | 615.5 | 602.1 | 595.4 | 592.1 | 588.8 | 582.1 |
| 27.5° | 4375.5 | 3847.0 | 2100.8 | 719.2 | 608.8 | 585.4 | 572.0 | 565.3 | 562.0 | 555.3 | 562.0 |
| 30° | 4469.2 | 3843.6 | 1776.3 | 628.9 | 575.4 | 552.0 | 538.6 | 535.2 | 528.5 | 525.2 | 528.5 |
| 32.5° | 4629.8 | 3930.6 | 1441.8 | 582.1 | 538.6 | 518.5 | 505.1 | 501.8 | 498.4 | 495.1 | 491.7 |
| 35° | 4974.3 | 4037.7 | 1127.3 | 545.3 | 505.1 | 481.7 | 471.7 | 465.0 | 461.6 | 458.3 | 454.9 |
| 37.5° | 5399.1 | 4275.2 | 859.7 | 511.8 | 471.7 | 448.3 | 438.2 | 434.9 | 421.5 | 418.1 | 414.8 |
| 40° | 5931.0 | 4529.4 | 662.3 | 475.0 | 441.6 | 418.1 | 408.1 | 398.1 | 381.4 | 374.7 | 368.0 |
| 42.5° | 6593.4 | 4776.9 | 545.3 | 441.6 | 408.1 | 391.4 | 374.7 | 357.9 | 344.6 | 331.2 | 324.5 |
| 45° | 7255.7 | 5064.6 | 478.4 | 411.5 | 381.4 | 361.3 | 347.9 | 324.5 | 301.1 | 281.0 | 277.7 |
| 47.5° | 7807.7 | 5168.3 | 438.2 | 378.0 | 354.6 | 337.9 | 317.8 | 287.7 | 254.2 | 234.2 | 230.8 |
| 50° | 8219.1 | 5108.1 | 398.1 | 344.6 | 324.5 | 307.8 | 281.0 | 244.2 | 210.7 | 190.7 | 184.0 |
| 52.5° | 8299.4 | 4843.8 | 361.3 | 317.8 | 294.4 | 274.3 | 244.2 | 204.1 | 167.3 | 147.2 | 143.8 |
| 55° | 8242.6 | 4405.6 | 331.2 | 294.4 | 267.6 | 237.5 | 204.1 | 163.9 | 130.5 | 110.4 | 107.0 |
| 57.5° | 8125.5 | 3887.1 | 297.7 | 264.3 | 234.2 | 204.1 | 167.3 | 133.8 | 97.0 | 76.9 | 76.9 |
| 60° | 7727.4 | 3181.3 | 264.3 | 230.8 | 200.7 | 174.0 | 137.2 | 97.0 | 66.9 | 50.2 | 46.8 |
| 62.5° | 7172.1 | 2445.3 | 230.8 | 197.4 | 174.0 | 143.8 | 107.0 | 70.2 | 40.1 | 26.8 | 26.8 |
| 65° | 6158.5 | 1712.7 | 194.0 | 163.9 | 143.8 | 117.1 | 80.3 | 43.5 | 23.4 | 10.0 | 10.0 |
| 67.5° | 4679.9 | 1060.4 | 160.6 | 137.2 | 123.8 | 93.7 | 56.9 | 26.8 | 10.0 | 3.3 | 0.0 |
| 70° | 2686.2 | 552.0 | 127.1 | 110.4 | 97.0 | 70.2 | 40.1 | 13.4 | 6.7 | 0.0 | 0.0 |
| 71° | 1876.7 | 408.1 | 113.7 | 97.0 | 87.0 | 63.6 | 33.5 | 10.0 | 3.3 | 0.0 | 0.0 |
| 72.5° | 940.0 | 271.0 | 97.0 | 80.3 | 70.2 | 50.2 | 26.8 | 10.0 | 3.3 | 0.0 | 0.0 |
| 75° | 334.5 | 174.0 | 66.9 | 53.5 | 50.2 | 36.8 | 16.7 | 6.7 | 3.3 | 0.0 | 0.0 |
| 77.5° | 230.8 | 140.5 | 46.8 | 33.5 | 33.5 | 23.4 | 10.0 | 3.3 | 3.3 | 0.0 | 0.0 |
| 80° | 210.7 | 76.9 | 30.1 | 20.1 | 16.7 | 13.4 | 6.7 | 3.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 210.7 | 56.9 | 16.7 | 13.4 | 10.0 | 6.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 147.2 | 30.1 | 10.0 | 10.0 | 6.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 23.4 | 10.0 | 6.7 | 3.3 | 3.3 | 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)