

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: P484769

Luminaire Tested: **IFLD-M-SA4C-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484769
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

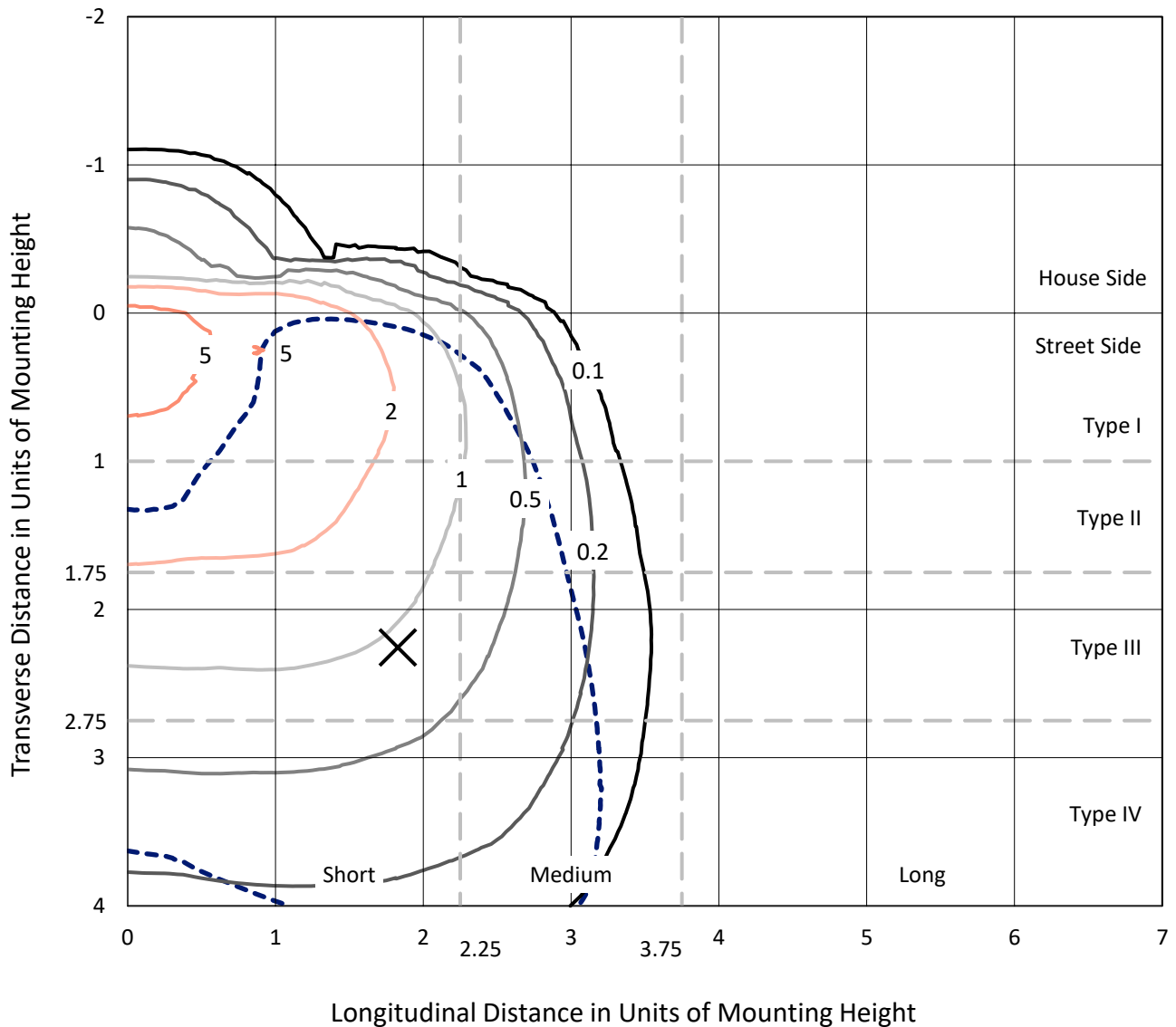
Lumens per Lamp: N/A
Luminaire Lumens: 23166.1 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

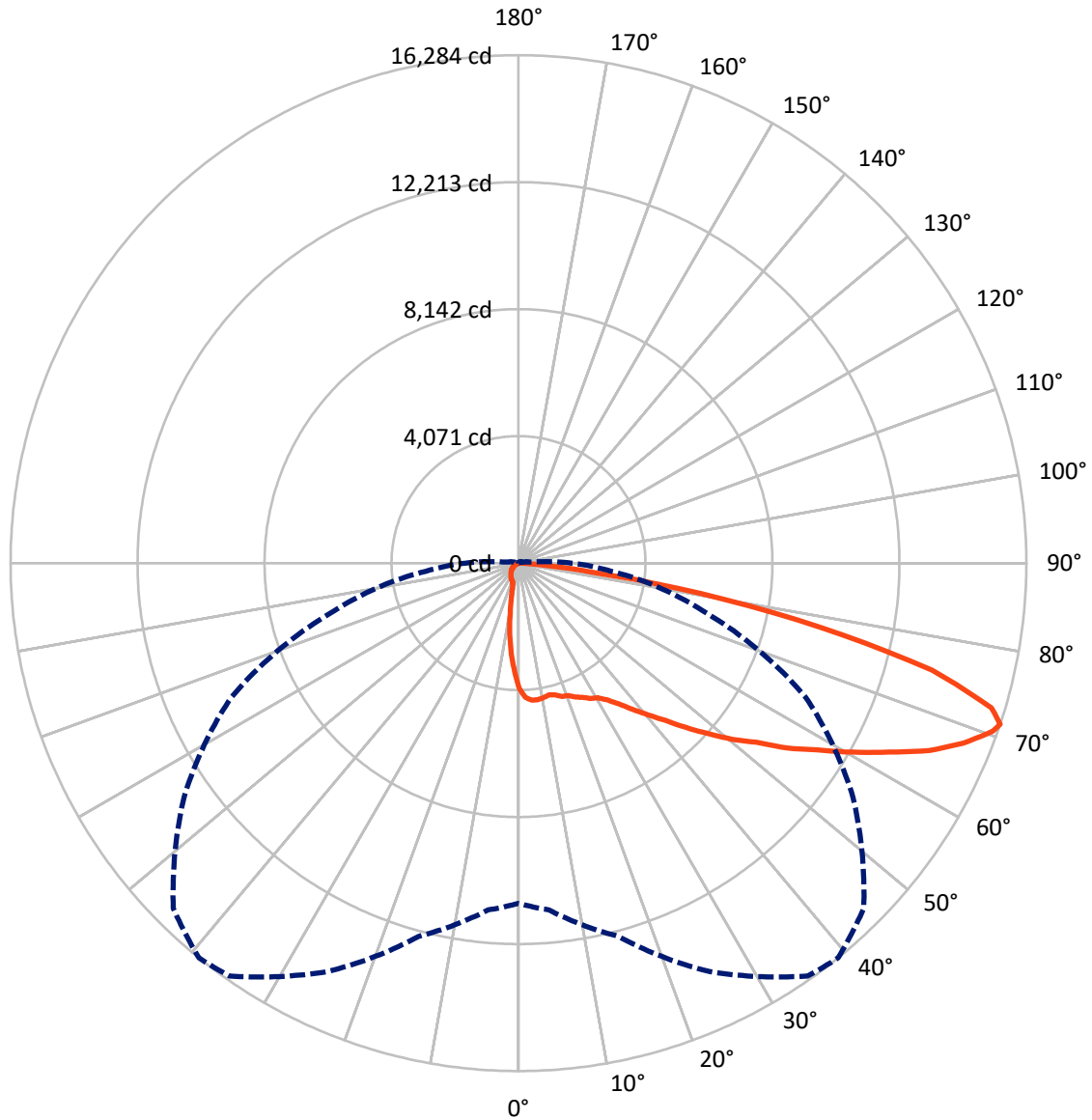
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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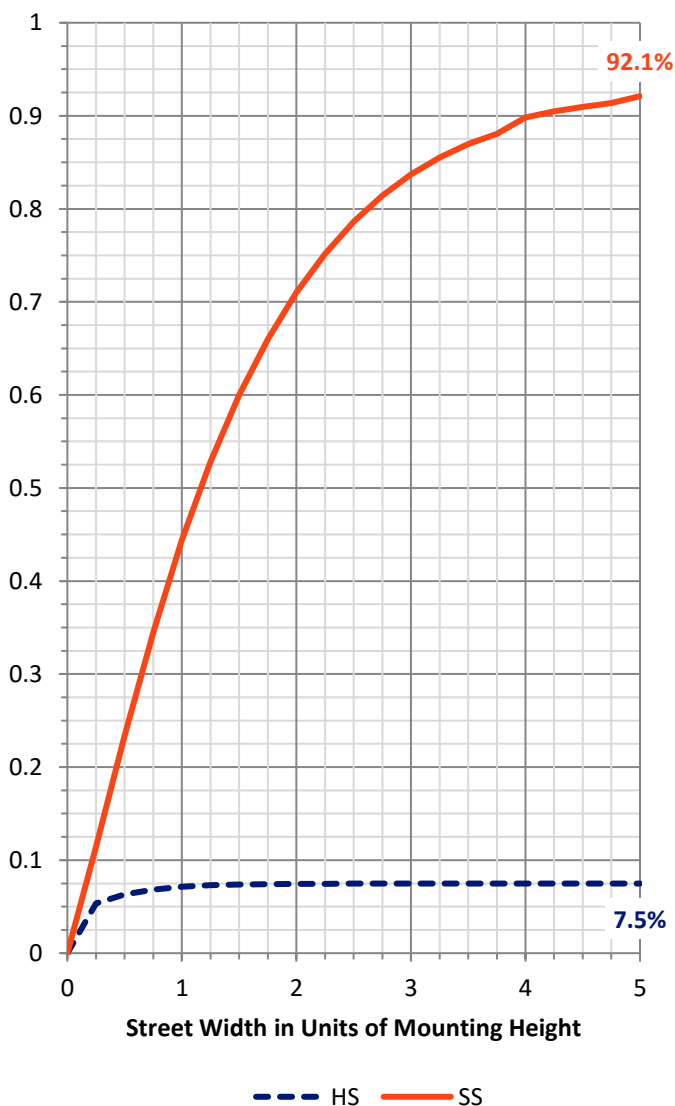
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1744.0 | 0.0 | 1744.0 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 21422.1 | 0.0 | 21422.1 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 23166.1 | 0.0 | 23166.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 337.1 | 1.5 |
| 10°-20° | 829.8 | 3.6 |
| 20°-30° | 1332.1 | 5.8 |
| 30°-40° | 2039.1 | 8.8 |
| 40°-50° | 3273.0 | 14.1 |
| 50°-60° | 4807.6 | 20.8 |
| 60°-70° | 6055.0 | 26.1 |
| 70°-80° | 4040.9 | 17.4 |
| 80°-90° | 451.6 | 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° | 23166.1 | 100.0 |
| 0°-180° | 23166.1 | 100.0 |

Coefficient of Utilization

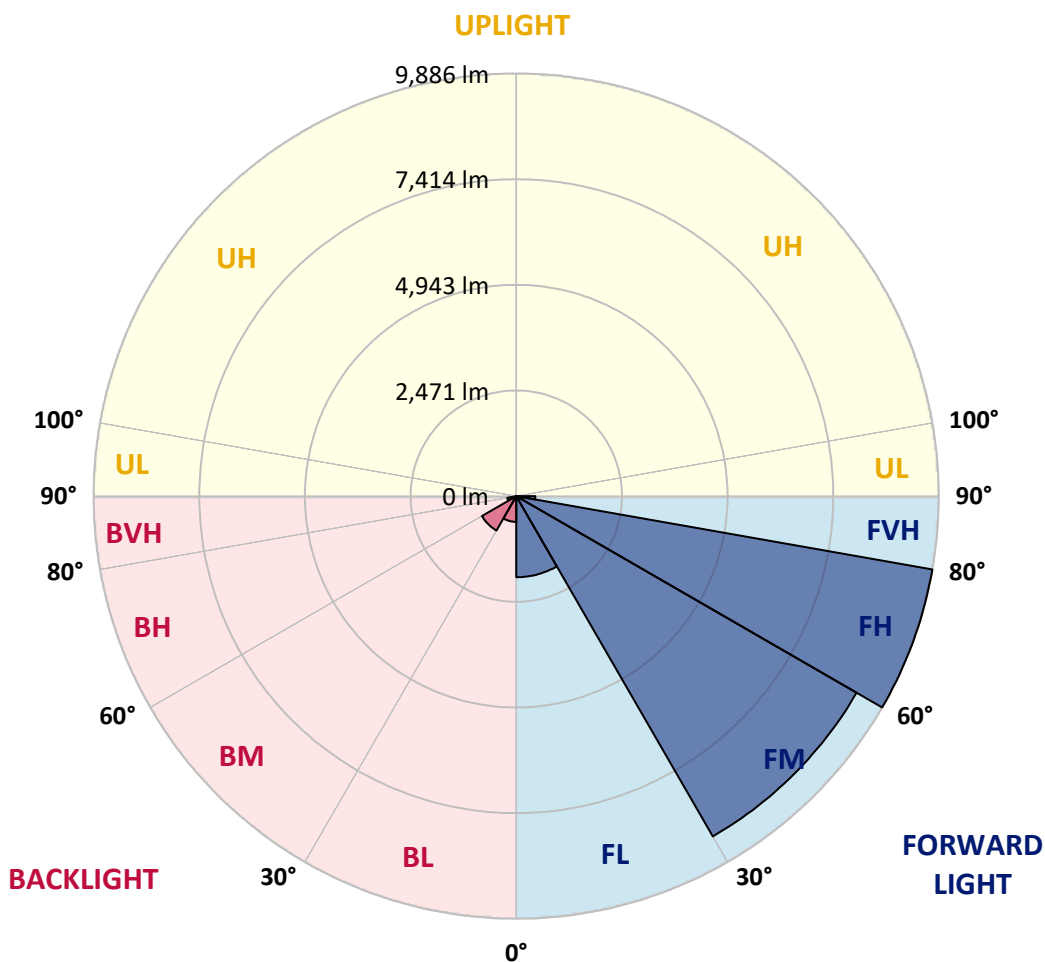


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1896.8 | 8.2 | | | |
| FM (30°-60°) | 9192.7 | 39.7 | | | |
| FH (60°-80°) | 9886.0 | 42.7 | | | G4/12000 |
| FVH (80°-90°) | 446.6 | 1.9 | | | G3/500 |
| BL (0°-30°) | 602.1 | 2.6 | B2/1000 | | |
| BM (30°-60°) | 927.0 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 209.9 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 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° | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 |
| 2.5° | 4345.2 | 4387.7 | 4345.2 | 4327.0 | 4308.7 | 4311.8 | 4263.1 | 4272.3 | 4214.5 | 4138.6 | 4077.8 |
| 5° | 4481.9 | 4539.7 | 4494.1 | 4472.8 | 4469.8 | 4412.0 | 4387.7 | 4330.0 | 4260.1 | 4141.6 | 4068.7 |
| 7.5° | 4469.8 | 4457.6 | 4478.9 | 4460.7 | 4421.2 | 4421.2 | 4393.8 | 4311.8 | 4241.9 | 4108.2 | 3983.6 |
| 10° | 4378.6 | 4415.1 | 4396.8 | 4375.6 | 4384.7 | 4387.7 | 4336.1 | 4278.3 | 4257.1 | 4123.4 | 3919.8 |
| 12.5° | 4369.5 | 4308.7 | 4375.6 | 4378.6 | 4339.1 | 4336.1 | 4330.0 | 4314.8 | 4248.0 | 4126.4 | 3935.0 |
| 15° | 4339.1 | 4314.8 | 4381.6 | 4384.7 | 4393.8 | 4384.7 | 4393.8 | 4381.6 | 4314.8 | 4244.9 | 4001.8 |
| 17.5° | 4363.4 | 4336.1 | 4430.3 | 4475.8 | 4454.6 | 4497.1 | 4481.9 | 4427.2 | 4369.5 | 4287.5 | 4065.6 |
| 20° | 4369.5 | 4409.0 | 4512.3 | 4530.5 | 4597.4 | 4527.5 | 4524.5 | 4466.7 | 4430.3 | 4342.1 | 4105.1 |
| 22.5° | 4481.9 | 4500.2 | 4627.8 | 4667.3 | 4670.3 | 4661.2 | 4585.2 | 4518.4 | 4503.2 | 4393.8 | 4114.3 |
| 25° | 4652.1 | 4715.9 | 4773.6 | 4797.9 | 4807.1 | 4764.5 | 4685.5 | 4600.4 | 4564.0 | 4494.1 | 4208.5 |
| 27.5° | 4952.9 | 4913.4 | 4965.1 | 5001.5 | 4898.2 | 4913.4 | 4813.1 | 4740.2 | 4688.5 | 4627.8 | 4317.8 |
| 30° | 5220.3 | 5183.8 | 5186.9 | 5180.8 | 5092.7 | 5010.6 | 4983.3 | 4855.7 | 4791.9 | 4816.2 | 4488.0 |
| 32.5° | 5460.4 | 5381.3 | 5448.2 | 5417.8 | 5253.7 | 5229.4 | 5208.1 | 5047.1 | 5059.3 | 5171.7 | 4743.2 |
| 35° | 5682.2 | 5654.8 | 5709.5 | 5654.8 | 5545.4 | 5539.4 | 5518.1 | 5378.3 | 5445.2 | 5606.2 | 5180.8 |
| 37.5° | 5885.8 | 5894.9 | 5961.7 | 5934.4 | 5943.5 | 5949.6 | 5937.4 | 5788.5 | 5979.9 | 6341.5 | 5691.3 |
| 40° | 6074.1 | 6062.0 | 6226.1 | 6311.2 | 6329.4 | 6396.2 | 6396.2 | 6359.8 | 6654.5 | 7061.7 | 6399.3 |
| 42.5° | 6274.7 | 6305.1 | 6517.8 | 6660.6 | 6833.8 | 6891.5 | 6970.5 | 6988.8 | 7444.6 | 7909.5 | 7122.5 |
| 45° | 6602.9 | 6551.2 | 6821.6 | 7158.9 | 7310.9 | 7514.4 | 7636.0 | 7739.3 | 8289.3 | 8927.4 | 7845.6 |
| 47.5° | 7019.1 | 6915.8 | 7152.8 | 7642.1 | 7994.5 | 8161.7 | 8380.4 | 8517.2 | 9055.0 | 9714.4 | 8529.3 |
| 50° | 7481.0 | 7374.7 | 7490.1 | 8164.7 | 8574.9 | 8878.8 | 9158.3 | 9331.5 | 9981.8 | 10595.6 | 9027.7 |
| 52.5° | 8003.7 | 7906.4 | 7924.6 | 8708.6 | 9313.3 | 9535.1 | 9902.8 | 10161.1 | 10808.3 | 11127.3 | 9203.9 |
| 55° | 8559.7 | 8535.4 | 8477.7 | 9240.4 | 9960.5 | 10458.8 | 10680.7 | 10990.6 | 11656.0 | 11416.0 | 9395.3 |
| 57.5° | 9118.8 | 9042.9 | 9124.9 | 9945.3 | 10999.7 | 11297.5 | 11604.4 | 11789.7 | 12127.0 | 11668.2 | 9322.4 |
| 60° | 9644.5 | 9650.6 | 9766.0 | 10711.0 | 11883.9 | 12306.3 | 12582.8 | 12470.4 | 12610.2 | 11777.6 | 9155.3 |
| 62.5° | 10088.1 | 10076.0 | 10367.7 | 11571.0 | 13053.8 | 13339.4 | 13546.0 | 13044.7 | 12835.0 | 11883.9 | 8863.6 |
| 65° | 10486.2 | 10622.9 | 11081.7 | 12595.0 | 14153.8 | 14481.9 | 14357.3 | 13588.6 | 13053.8 | 11571.0 | 8043.2 |
| 67.5° | 10787.0 | 10990.6 | 11786.7 | 13558.2 | 15162.6 | 15393.5 | 15220.3 | 14001.8 | 12795.5 | 10343.4 | 6551.2 |
| 70° | 10963.2 | 11169.9 | 12291.1 | 14360.4 | 15967.8 | 16134.9 | 15727.8 | 13682.8 | 11288.4 | 7490.1 | 4086.9 |
| 71° | 10908.5 | 11160.7 | 12388.3 | 14445.5 | 16159.2 | 16283.8 | 15651.8 | 13093.3 | 10151.9 | 6271.7 | 2980.9 |
| 72.5° | 10413.3 | 10650.3 | 11984.2 | 14384.7 | 15928.3 | 15852.3 | 15059.3 | 11677.3 | 7991.5 | 3998.8 | 1540.6 |
| 75° | 7651.2 | 7906.4 | 10285.6 | 12443.0 | 14217.6 | 13694.9 | 12187.8 | 8195.1 | 4168.9 | 1224.6 | 449.7 |
| 77.5° | 3810.4 | 3852.9 | 6384.1 | 9033.7 | 10428.4 | 9908.8 | 8167.7 | 4570.0 | 1558.8 | 361.6 | 224.9 |
| 80° | 1756.3 | 1768.5 | 2394.4 | 4679.4 | 6305.1 | 5934.4 | 4576.1 | 2254.6 | 705.0 | 191.4 | 176.2 |
| 82.5° | 1197.2 | 1215.4 | 1443.3 | 1938.6 | 2737.8 | 2309.3 | 1853.5 | 1443.3 | 404.1 | 115.5 | 173.2 |
| 85° | 218.8 | 200.5 | 808.3 | 1027.0 | 1057.4 | 717.1 | 641.1 | 1248.9 | 151.9 | 66.8 | 151.9 |
| 87.5° | 0.0 | 3.0 | 112.4 | 419.3 | 376.8 | 167.1 | 218.8 | 303.9 | 15.2 | 21.3 | 27.3 |
| 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° | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 | 4032.2 |
| 2.5° | 4026.1 | 3992.7 | 3880.3 | 3755.7 | 3643.3 | 3555.2 | 3442.7 | 3391.1 | 3309.0 | 3263.4 | 3260.4 |
| 5° | 3968.4 | 3877.2 | 3682.8 | 3473.1 | 3239.1 | 3044.7 | 2828.9 | 2707.4 | 2567.6 | 2525.1 | 2516.0 |
| 7.5° | 3871.2 | 3740.5 | 3454.9 | 3160.1 | 2801.6 | 2458.2 | 2193.9 | 1911.3 | 1738.1 | 1665.1 | 1637.8 |
| 10° | 3810.4 | 3652.4 | 3263.4 | 2822.9 | 2321.5 | 1838.3 | 1467.6 | 1166.8 | 1008.8 | 932.8 | 914.6 |
| 12.5° | 3810.4 | 3640.2 | 3108.5 | 2500.8 | 1835.3 | 1258.0 | 908.5 | 735.3 | 683.7 | 665.5 | 665.5 |
| 15° | 3801.3 | 3615.9 | 2959.6 | 2169.6 | 1358.3 | 844.7 | 677.6 | 641.1 | 635.1 | 632.0 | 629.0 |
| 17.5° | 3846.9 | 3573.4 | 2807.7 | 1814.0 | 960.2 | 665.5 | 622.9 | 616.8 | 610.8 | 610.8 | 604.7 |
| 20° | 3880.3 | 3549.1 | 2625.3 | 1437.3 | 717.1 | 616.8 | 598.6 | 589.5 | 586.4 | 583.4 | 589.5 |
| 22.5° | 3852.9 | 3512.6 | 2400.5 | 1075.7 | 625.9 | 586.4 | 574.3 | 565.2 | 559.1 | 559.1 | 562.1 |
| 25° | 3904.6 | 3479.2 | 2175.6 | 811.3 | 586.4 | 559.1 | 546.9 | 540.9 | 537.8 | 534.8 | 528.7 |
| 27.5° | 3974.5 | 3494.4 | 1908.2 | 653.3 | 553.0 | 531.8 | 519.6 | 513.5 | 510.5 | 504.4 | 510.5 |
| 30° | 4059.6 | 3491.3 | 1613.5 | 571.3 | 522.6 | 501.4 | 489.2 | 486.2 | 480.1 | 477.1 | 480.1 |
| 32.5° | 4205.4 | 3570.3 | 1309.6 | 528.7 | 489.2 | 471.0 | 458.8 | 455.8 | 452.8 | 449.7 | 446.7 |
| 35° | 4518.4 | 3667.6 | 1024.0 | 495.3 | 458.8 | 437.6 | 428.4 | 422.4 | 419.3 | 416.3 | 413.2 |
| 37.5° | 4904.3 | 3883.3 | 780.9 | 464.9 | 428.4 | 407.2 | 398.1 | 395.0 | 382.9 | 379.8 | 376.8 |
| 40° | 5387.4 | 4114.3 | 601.6 | 431.5 | 401.1 | 379.8 | 370.7 | 361.6 | 346.4 | 340.3 | 334.2 |
| 42.5° | 5989.1 | 4339.1 | 495.3 | 401.1 | 370.7 | 355.5 | 340.3 | 325.1 | 313.0 | 300.8 | 294.7 |
| 45° | 6590.7 | 4600.4 | 434.5 | 373.7 | 346.4 | 328.2 | 316.0 | 294.7 | 273.5 | 255.2 | 252.2 |
| 47.5° | 7092.1 | 4694.6 | 398.1 | 343.4 | 322.1 | 306.9 | 288.7 | 261.3 | 230.9 | 212.7 | 209.7 |
| 50° | 7465.8 | 4639.9 | 361.6 | 313.0 | 294.7 | 279.6 | 255.2 | 221.8 | 191.4 | 173.2 | 167.1 |
| 52.5° | 7538.7 | 4399.9 | 328.2 | 288.7 | 267.4 | 249.2 | 221.8 | 185.4 | 151.9 | 133.7 | 130.7 |
| 55° | 7487.1 | 4001.8 | 300.8 | 267.4 | 243.1 | 215.7 | 185.4 | 148.9 | 118.5 | 100.3 | 97.2 |
| 57.5° | 7380.7 | 3530.8 | 270.4 | 240.0 | 212.7 | 185.4 | 151.9 | 121.5 | 88.1 | 69.9 | 69.9 |
| 60° | 7019.1 | 2889.7 | 240.0 | 209.7 | 182.3 | 158.0 | 124.6 | 88.1 | 60.8 | 45.6 | 42.5 |
| 62.5° | 6514.7 | 2221.2 | 209.7 | 179.3 | 158.0 | 130.7 | 97.2 | 63.8 | 36.5 | 24.3 | 24.3 |
| 65° | 5594.0 | 1555.8 | 176.2 | 148.9 | 130.7 | 106.4 | 72.9 | 39.5 | 21.3 | 9.1 | 9.1 |
| 67.5° | 4251.0 | 963.2 | 145.9 | 124.6 | 112.4 | 85.1 | 51.7 | 24.3 | 9.1 | 3.0 | 0.0 |
| 70° | 2440.0 | 501.4 | 115.5 | 100.3 | 88.1 | 63.8 | 36.5 | 12.2 | 6.1 | 0.0 | 0.0 |
| 71° | 1704.7 | 370.7 | 103.3 | 88.1 | 79.0 | 57.7 | 30.4 | 9.1 | 3.0 | 0.0 | 0.0 |
| 72.5° | 853.8 | 246.1 | 88.1 | 72.9 | 63.8 | 45.6 | 24.3 | 9.1 | 3.0 | 0.0 | 0.0 |
| 75° | 303.9 | 158.0 | 60.8 | 48.6 | 45.6 | 33.4 | 15.2 | 6.1 | 3.0 | 0.0 | 0.0 |
| 77.5° | 209.7 | 127.6 | 42.5 | 30.4 | 30.4 | 21.3 | 9.1 | 3.0 | 3.0 | 0.0 | 0.0 |
| 80° | 191.4 | 69.9 | 27.3 | 18.2 | 15.2 | 12.2 | 6.1 | 3.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 191.4 | 51.7 | 15.2 | 12.2 | 9.1 | 6.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 133.7 | 27.3 | 9.1 | 9.1 | 6.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.3 | 9.1 | 6.1 | 3.0 | 3.0 | 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)