

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P723391

Luminaire Tested: **IFLD-M-SA4E-760-U-22**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P723391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-760-U-22
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

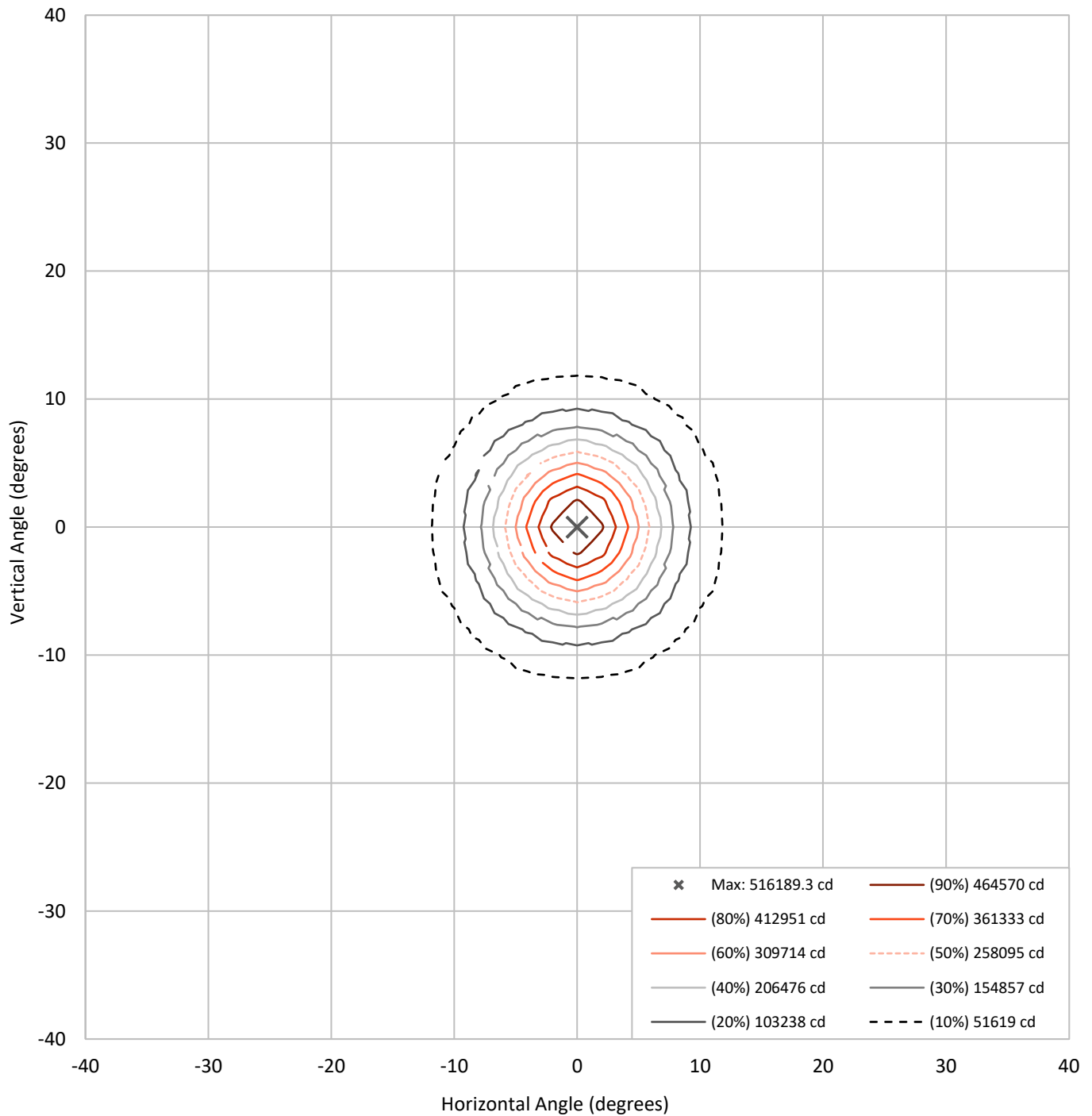
| | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 2H x 2V |
| Luminaire Lumens: | 34565.4 lumens | Max Intensity: | 516189.3 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 109.8 lumens/watt | | |
| Luminous Opening: | Rectangular (W 2' x L: 0.5' x H: 0') | | |
| Beam Angle (50%): | 11.8°H x 11.8°V | Field Angle (10%): | 23.7°H x 23.7°V |
| Beam Lumens: | 8373 lumens | Field Lumens: | 17993.6 lumens |
| Beam Efficiency: | 24.2% | Field Efficiency: | 52.1% |

Input Watts (W): 314.8
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: 28.75 FT



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Iso-Candela Plot





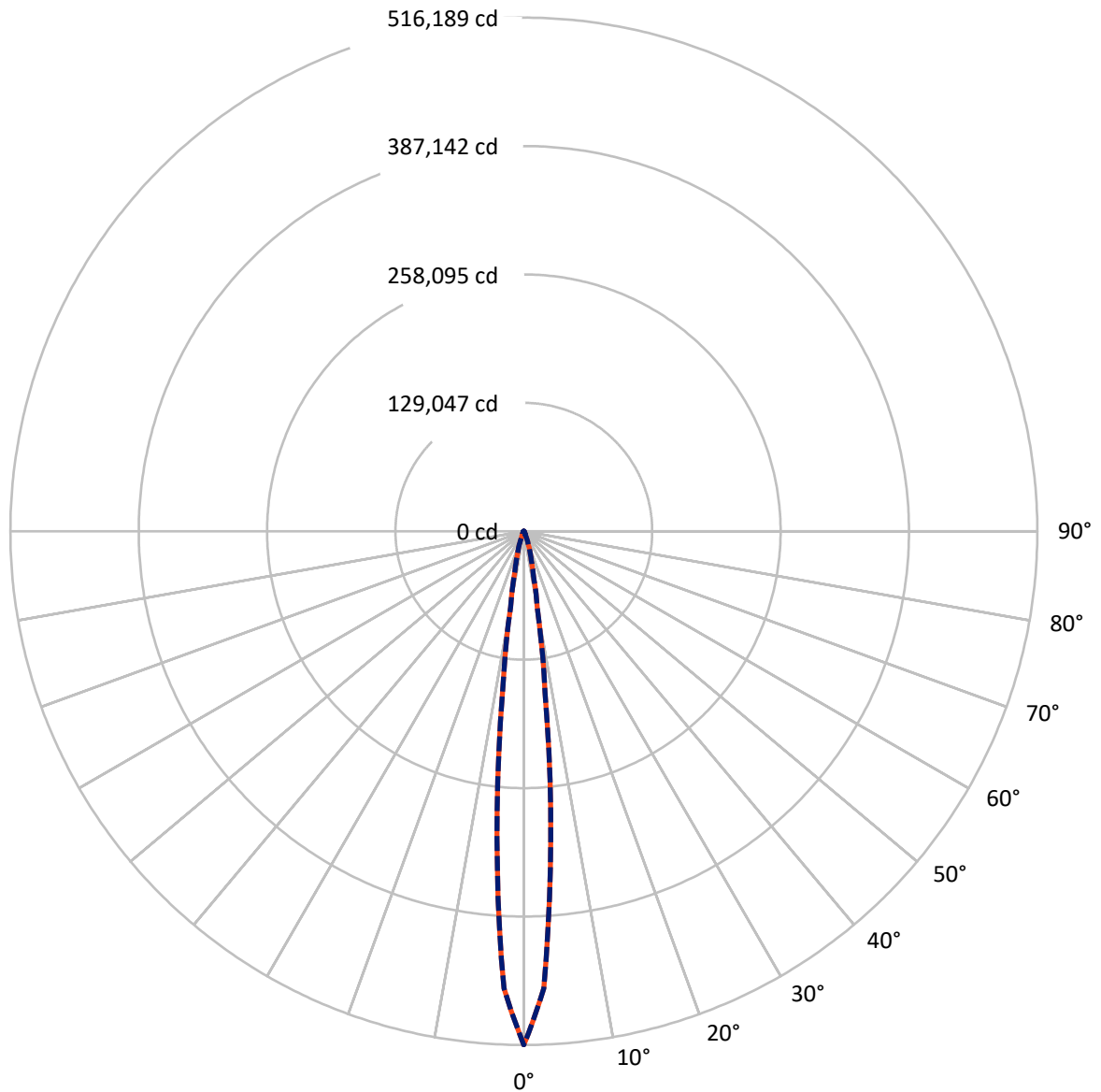
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Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|------|------|------|-------|-------|--------|--------|-------|-------|------|------|------|-----|-----|----|----|----|
| 90 | 1.1 | 7.3 | 16.6 | 24.9 | 28.4 | 24.9 | 16.6 | 7.3 | 1.1 | | | | | | | | | | |
| 80 | 1.1 | 7.3 | 16.6 | 24.9 | 28.4 | 24.9 | 16.6 | 7.3 | 1.1 | | | | | | | | | | |
| 70 | 3.3 | 3.1 | 5.7 | 8.8 | 11.9 | 14.4 | 16.1 | 17.0 | 17.0 | 16.1 | 14.4 | 11.9 | 8.8 | 5.7 | 3.1 | 3.3 | | | |
| 60 | | 4.2 | 8.0 | 11.8 | 15.0 | 17.3 | 18.8 | 19.7 | 19.7 | 18.8 | 17.3 | 15.0 | 11.8 | 8.0 | 4.2 | | | | |
| 50 | 4.9 | 5.3 | 9.6 | 13.3 | 16.3 | 19.0 | 21.7 | 23.6 | 23.6 | 21.7 | 19.0 | 16.3 | 13.3 | 9.6 | 5.3 | 4.9 | | | |
| 40 | | 6.2 | 10.5 | 14.0 | 18.0 | 24.2 | 30.9 | 35.5 | 35.5 | 30.9 | 24.2 | 18.0 | 14.0 | 10.5 | 6.2 | | | | |
| 30 | 6.1 | 6.8 | 10.9 | 14.8 | 21.9 | 33.3 | 63.2 | 120.9 | 120.9 | 63.2 | 33.3 | 21.9 | 14.8 | 10.9 | 6.8 | 6.1 | | | |
| 20 | | 7.1 | 11.2 | 16.0 | 26.3 | 59.6 | 292.4 | 817.0 | 817.0 | 292.4 | 59.6 | 26.3 | 16.0 | 11.2 | 7.1 | | | | |
| 10 | 6.5 | 7.3 | 11.3 | 16.8 | 29.3 | 111.2 | 796.3 | 5666.2 | 5666.2 | 796.3 | 111.2 | 29.3 | 16.8 | 11.3 | 7.3 | 6.5 | | | |
| 0 | | 7.3 | 11.3 | 16.8 | 29.3 | 111.2 | 796.3 | 5666.2 | 5666.2 | 796.3 | 111.2 | 29.3 | 16.8 | 11.3 | 7.3 | | | | |
| -10 | 6.1 | 7.1 | 11.2 | 16.0 | 26.3 | 59.6 | 292.4 | 817.0 | 817.0 | 292.4 | 59.6 | 26.3 | 16.0 | 11.2 | 7.1 | 6.1 | | | |
| -20 | | 6.8 | 10.9 | 14.8 | 21.9 | 33.3 | 63.2 | 120.9 | 120.9 | 63.2 | 33.3 | 21.9 | 14.8 | 10.9 | 6.8 | | | | |
| -30 | 4.9 | 6.2 | 10.5 | 14.0 | 18.0 | 24.2 | 30.9 | 35.5 | 35.5 | 30.9 | 24.2 | 18.0 | 14.0 | 10.5 | 6.2 | 4.9 | | | |
| -40 | | 5.3 | 9.6 | 13.3 | 16.3 | 19.0 | 21.7 | 23.6 | 23.6 | 21.7 | 19.0 | 16.3 | 13.3 | 9.6 | 5.3 | | | | |
| -50 | 3.3 | 4.2 | 8.0 | 11.8 | 15.0 | 17.3 | 18.8 | 19.7 | 19.7 | 18.8 | 17.3 | 15.0 | 11.8 | 8.0 | 4.2 | 3.3 | | | |
| -60 | | 3.1 | 5.7 | 8.8 | 11.9 | 14.4 | 16.1 | 17.0 | 17.0 | 16.1 | 14.4 | 11.9 | 8.8 | 5.7 | 3.1 | | | | |
| -70 | 1.1 | 7.3 | 16.6 | 24.9 | 28.4 | 24.9 | 16.6 | 7.3 | 1.1 | | | | | | | | | | |
| -80 | | 1.1 | 7.3 | 16.6 | 24.9 | 28.4 | 24.9 | 16.6 | 7.3 | 1.1 | | | | | | | | | |
| -90 | 1.1 | 7.3 | 16.6 | 24.9 | 28.4 | 24.9 | 16.6 | 7.3 | 1.1 | | | | | | | | | | |
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

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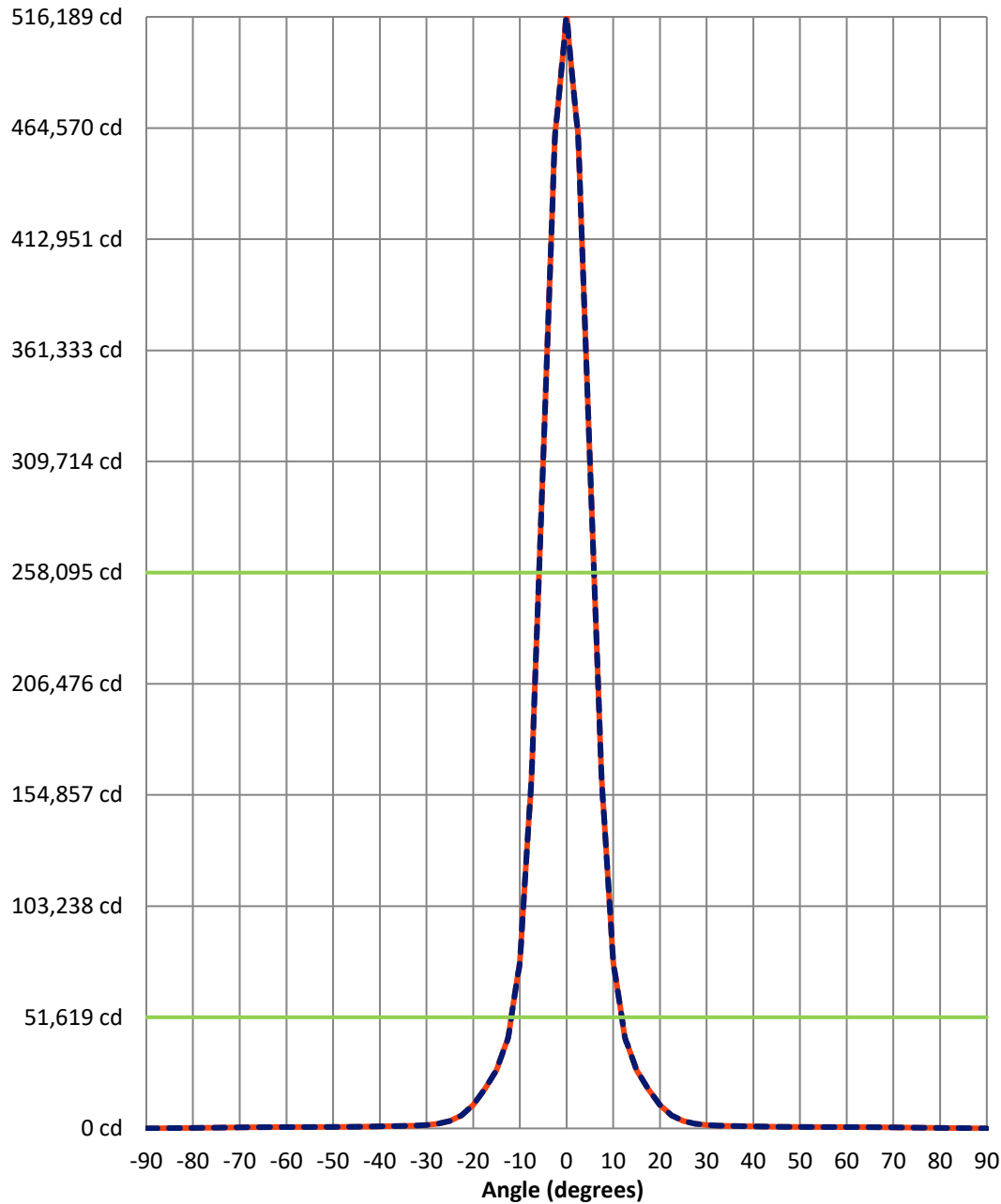
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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Luminous Intensity Plot



Beam:
H Angle: 11.8°
V Angle: 11.8°
Lumens: 8373
Efficiency: 24.2%

Field:
H Angle: 23.7°
V Angle: 23.7°
Lumens: 17993.6
Efficiency: 52.1%

Spill:
Lumens: 16571.8
Efficiency: 47.9%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|-------|----------|----------|----------|----------|---------|---------|---------|---------|---------|--------|--------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 45.9 | 45.9 | 45.9 |
| 85° | 132.6 | 132.6 | 132.6 | 132.6 | 132.6 | 127.5 | 127.5 | 127.5 | 122.4 | 122.4 | 117.3 |
| 82.5° | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 173.4 | 173.4 | 173.4 | 168.3 | 168.3 | 163.2 |
| 80° | 229.6 | 229.6 | 229.6 | 229.6 | 224.5 | 224.5 | 224.5 | 219.4 | 219.4 | 214.3 | 209.2 |
| 77.5° | 285.7 | 285.7 | 285.7 | 285.7 | 280.6 | 280.6 | 275.5 | 270.4 | 270.4 | 265.3 | 260.2 |
| 75° | 346.9 | 346.9 | 346.9 | 341.8 | 341.8 | 336.7 | 331.6 | 331.6 | 326.5 | 316.3 | 311.2 |
| 72.5° | 413.2 | 413.2 | 413.2 | 408.1 | 408.1 | 403.0 | 397.9 | 392.8 | 382.6 | 377.5 | 367.3 |
| 70° | 479.5 | 479.5 | 479.5 | 474.4 | 469.3 | 464.2 | 459.1 | 454.0 | 443.8 | 438.7 | 428.5 |
| 67.5° | 530.5 | 530.5 | 530.5 | 525.4 | 525.4 | 520.3 | 515.2 | 510.1 | 499.9 | 494.8 | 484.6 |
| 65° | 571.4 | 571.4 | 571.4 | 566.3 | 566.3 | 561.2 | 556.1 | 551.0 | 545.9 | 540.8 | 530.5 |
| 62.5° | 602.0 | 602.0 | 602.0 | 596.9 | 596.9 | 591.8 | 591.8 | 586.7 | 581.6 | 576.5 | 566.3 |
| 60° | 617.3 | 617.3 | 617.3 | 617.3 | 612.2 | 612.2 | 612.2 | 607.1 | 607.1 | 602.0 | 596.9 |
| 57.5° | 637.7 | 637.7 | 637.7 | 637.7 | 632.6 | 632.6 | 627.5 | 622.4 | 622.4 | 617.3 | 612.2 |
| 55° | 647.9 | 647.9 | 647.9 | 647.9 | 647.9 | 642.8 | 642.8 | 642.8 | 637.7 | 632.6 | 627.5 |
| 52.5° | 663.2 | 663.2 | 663.2 | 663.2 | 658.1 | 658.1 | 653.0 | 653.0 | 647.9 | 642.8 | 642.8 |
| 50° | 683.6 | 683.6 | 683.6 | 678.5 | 678.5 | 673.4 | 668.3 | 663.2 | 663.2 | 658.1 | 653.0 |
| 47.5° | 714.2 | 714.2 | 714.2 | 709.1 | 704.0 | 698.9 | 693.8 | 683.6 | 678.5 | 673.4 | 663.2 |
| 45° | 760.1 | 760.1 | 755.0 | 749.9 | 744.8 | 734.6 | 724.4 | 714.2 | 704.0 | 693.8 | 683.6 |
| 42.5° | 851.9 | 851.9 | 841.7 | 831.5 | 816.2 | 795.8 | 775.4 | 755.0 | 739.7 | 724.4 | 709.1 |
| 40° | 959.1 | 959.1 | 948.9 | 933.6 | 913.2 | 892.8 | 862.1 | 831.5 | 800.9 | 760.1 | 739.7 |
| 37.5° | 1066.2 | 1066.2 | 1056.0 | 1040.7 | 1020.3 | 989.7 | 959.1 | 923.4 | 882.5 | 836.6 | 795.8 |
| 35° | 1147.8 | 1147.8 | 1137.6 | 1127.4 | 1107.0 | 1086.6 | 1056.0 | 1020.3 | 974.4 | 923.4 | 872.3 |
| 32.5° | 1290.7 | 1290.7 | 1270.3 | 1244.8 | 1214.1 | 1173.3 | 1132.5 | 1101.9 | 1066.2 | 1010.1 | 954.0 |
| 30° | 1581.4 | 1581.4 | 1535.5 | 1484.5 | 1408.0 | 1316.2 | 1249.9 | 1188.6 | 1132.5 | 1086.6 | 1030.5 |
| 27.5° | 2193.6 | 2168.1 | 2091.6 | 1964.1 | 1795.7 | 1581.4 | 1459.0 | 1321.3 | 1229.4 | 1147.8 | 1096.8 |
| 25° | 3458.8 | 3397.6 | 3224.1 | 2938.4 | 2545.6 | 2127.3 | 1851.8 | 1561.0 | 1392.7 | 1255.0 | 1163.1 |
| 22.5° | 6050.3 | 5912.6 | 5509.6 | 4851.5 | 3958.7 | 3162.9 | 2535.4 | 2015.1 | 1642.7 | 1418.2 | 1255.0 |
| 20° | 10876.3 | 10590.6 | 9733.6 | 8356.2 | 6499.2 | 5065.7 | 3652.6 | 2780.3 | 2071.2 | 1642.7 | 1392.7 |
| 17.5° | 18293.8 | 17783.6 | 16278.7 | 13865.7 | 10876.3 | 8187.8 | 5642.2 | 3923.0 | 2780.3 | 2015.1 | 1561.0 |
| 15° | 27109.1 | 26394.9 | 24313.5 | 21002.6 | 16916.4 | 12559.7 | 8769.4 | 5642.2 | 3652.6 | 2535.4 | 1851.8 |
| 12.5° | 42250.1 | 40775.8 | 36505.9 | 29853.6 | 23731.9 | 17977.5 | 12559.7 | 8187.8 | 5065.7 | 3162.9 | 2127.3 |
| 10° | 77521.5 | 73221.0 | 61028.5 | 42571.5 | 32521.7 | 23731.9 | 16916.4 | 10876.3 | 6499.2 | 3958.7 | 2545.6 |
| 7.5° | 163118.6 | 144003.5 | 103952.1 | 69175.5 | 42571.5 | 29853.6 | 21002.6 | 13865.7 | 8356.2 | 4851.5 | 2938.4 |
| 5° | 310182.9 | 271136.5 | 186809.7 | 103952.1 | 61028.5 | 36505.9 | 24313.5 | 16278.7 | 9733.6 | 5509.6 | 3224.1 |
| 2.5° | 459828.6 | 405850.3 | 271136.5 | 144003.5 | 73221.0 | 40775.8 | 26394.9 | 17783.6 | 10590.6 | 5912.6 | 3397.6 |
| 0° | 516189.3 | 459828.6 | 310182.9 | 163118.6 | 77521.5 | 42250.1 | 27109.1 | 18293.8 | 10876.3 | 6050.3 | 3458.8 |



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CANDELA DISTRIBUTION (continued):

| | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 45.9 | 45.9 | 40.8 | 40.8 | 40.8 | 40.8 | 35.7 | 35.7 | 35.7 | 30.6 | 30.6 |
| 85° | 112.2 | 112.2 | 107.1 | 102.0 | 96.9 | 96.9 | 91.8 | 86.7 | 81.6 | 76.5 | 66.3 |
| 82.5° | 163.2 | 158.1 | 158.1 | 153.0 | 147.9 | 147.9 | 142.8 | 137.7 | 132.6 | 127.5 | 117.3 |
| 80° | 204.1 | 204.1 | 199.0 | 193.9 | 188.8 | 183.7 | 173.4 | 168.3 | 163.2 | 158.1 | 153.0 |
| 77.5° | 255.1 | 250.0 | 239.8 | 234.7 | 229.6 | 219.4 | 214.3 | 204.1 | 199.0 | 188.8 | 178.6 |
| 75° | 306.1 | 295.9 | 290.8 | 280.6 | 270.4 | 260.2 | 250.0 | 239.8 | 229.6 | 219.4 | 209.2 |
| 72.5° | 357.1 | 346.9 | 341.8 | 326.5 | 316.3 | 306.1 | 290.8 | 280.6 | 270.4 | 255.1 | 239.8 |
| 70° | 418.3 | 408.1 | 392.8 | 382.6 | 367.3 | 352.0 | 336.7 | 321.4 | 306.1 | 290.8 | 275.5 |
| 67.5° | 474.4 | 464.2 | 448.9 | 433.6 | 418.3 | 403.0 | 382.6 | 367.3 | 346.9 | 326.5 | 311.2 |
| 65° | 520.3 | 510.1 | 499.9 | 484.6 | 469.3 | 448.9 | 428.5 | 408.1 | 387.7 | 367.3 | 346.9 |
| 62.5° | 556.1 | 545.9 | 535.7 | 525.4 | 510.1 | 494.8 | 479.5 | 454.0 | 433.6 | 408.1 | 382.6 |
| 60° | 586.7 | 581.6 | 571.4 | 556.1 | 545.9 | 530.5 | 515.2 | 494.8 | 474.4 | 443.8 | 418.3 |
| 57.5° | 607.1 | 602.0 | 596.9 | 586.7 | 576.5 | 561.2 | 545.9 | 525.4 | 505.0 | 484.6 | 454.0 |
| 55° | 622.4 | 617.3 | 612.2 | 607.1 | 596.9 | 586.7 | 571.4 | 556.1 | 535.7 | 515.2 | 489.7 |
| 52.5° | 637.7 | 632.6 | 622.4 | 617.3 | 612.2 | 602.0 | 591.8 | 576.5 | 561.2 | 540.8 | 515.2 |
| 50° | 647.9 | 642.8 | 637.7 | 632.6 | 622.4 | 612.2 | 607.1 | 596.9 | 581.6 | 561.2 | 540.8 |
| 47.5° | 658.1 | 653.0 | 647.9 | 642.8 | 637.7 | 627.5 | 617.3 | 607.1 | 596.9 | 581.6 | 561.2 |
| 45° | 673.4 | 663.2 | 658.1 | 647.9 | 642.8 | 637.7 | 627.5 | 617.3 | 607.1 | 596.9 | 576.5 |
| 42.5° | 693.8 | 678.5 | 673.4 | 663.2 | 653.0 | 647.9 | 637.7 | 627.5 | 617.3 | 607.1 | 591.8 |
| 40° | 719.3 | 704.0 | 688.7 | 673.4 | 663.2 | 653.0 | 647.9 | 637.7 | 627.5 | 612.2 | 602.0 |
| 37.5° | 755.0 | 729.5 | 709.1 | 688.7 | 673.4 | 663.2 | 653.0 | 642.8 | 637.7 | 622.4 | 612.2 |
| 35° | 821.3 | 765.2 | 734.6 | 709.1 | 688.7 | 673.4 | 663.2 | 647.9 | 642.8 | 632.6 | 617.3 |
| 32.5° | 892.8 | 831.5 | 770.3 | 734.6 | 709.1 | 688.7 | 673.4 | 658.1 | 647.9 | 637.7 | 622.4 |
| 30° | 969.3 | 897.9 | 831.5 | 765.2 | 729.5 | 704.0 | 678.5 | 663.2 | 653.0 | 642.8 | 632.6 |
| 27.5° | 1040.7 | 969.3 | 892.8 | 821.3 | 755.0 | 719.3 | 693.8 | 673.4 | 658.1 | 647.9 | 637.7 |
| 25° | 1096.8 | 1030.5 | 954.0 | 872.3 | 795.8 | 739.7 | 709.1 | 683.6 | 663.2 | 653.0 | 642.8 |
| 22.5° | 1147.8 | 1086.6 | 1010.1 | 923.4 | 836.6 | 760.1 | 724.4 | 693.8 | 673.4 | 658.1 | 642.8 |
| 20° | 1229.4 | 1132.5 | 1066.2 | 974.4 | 882.5 | 800.9 | 739.7 | 704.0 | 678.5 | 663.2 | 647.9 |
| 17.5° | 1321.3 | 1188.6 | 1101.9 | 1020.3 | 923.4 | 831.5 | 755.0 | 714.2 | 683.6 | 663.2 | 653.0 |
| 15° | 1459.0 | 1249.9 | 1132.5 | 1056.0 | 959.1 | 862.1 | 775.4 | 724.4 | 693.8 | 668.3 | 653.0 |
| 12.5° | 1581.4 | 1316.2 | 1173.3 | 1086.6 | 989.7 | 892.8 | 795.8 | 734.6 | 698.9 | 673.4 | 658.1 |
| 10° | 1795.7 | 1408.0 | 1214.1 | 1107.0 | 1020.3 | 913.2 | 816.2 | 744.8 | 704.0 | 678.5 | 658.1 |
| 7.5° | 1964.1 | 1484.5 | 1244.8 | 1127.4 | 1040.7 | 933.6 | 831.5 | 749.9 | 709.1 | 678.5 | 663.2 |
| 5° | 2091.6 | 1535.5 | 1270.3 | 1137.6 | 1056.0 | 948.9 | 841.7 | 755.0 | 714.2 | 683.6 | 663.2 |
| 2.5° | 2168.1 | 1581.4 | 1290.7 | 1147.8 | 1066.2 | 959.1 | 851.9 | 760.1 | 714.2 | 683.6 | 663.2 |
| 0° | 2193.6 | 1581.4 | 1290.7 | 1147.8 | 1066.2 | 959.1 | 851.9 | 760.1 | 714.2 | 683.6 | 663.2 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 30.6 | 25.5 | 25.5 | 25.5 | 20.4 | 20.4 | 15.3 | 15.3 | 15.3 | 10.2 | 10.2 |
| 85° | 61.2 | 56.1 | 51.0 | 45.9 | 40.8 | 40.8 | 35.7 | 30.6 | 25.5 | 20.4 | 15.3 |
| 82.5° | 107.1 | 102.0 | 91.8 | 81.6 | 71.4 | 61.2 | 51.0 | 45.9 | 40.8 | 30.6 | 25.5 |
| 80° | 147.9 | 137.7 | 132.6 | 117.3 | 107.1 | 91.8 | 81.6 | 66.3 | 51.0 | 45.9 | 35.7 |
| 77.5° | 173.4 | 163.2 | 153.0 | 147.9 | 137.7 | 122.4 | 107.1 | 91.8 | 76.5 | 56.1 | 45.9 |
| 75° | 199.0 | 188.8 | 178.6 | 168.3 | 158.1 | 142.8 | 132.6 | 117.3 | 96.9 | 76.5 | 51.0 |
| 72.5° | 229.6 | 214.3 | 204.1 | 188.8 | 173.4 | 163.2 | 147.9 | 137.7 | 117.3 | 91.8 | 66.3 |
| 70° | 260.2 | 244.9 | 224.5 | 209.2 | 193.9 | 178.6 | 163.2 | 147.9 | 132.6 | 107.1 | 81.6 |
| 67.5° | 290.8 | 270.4 | 255.1 | 234.7 | 214.3 | 199.0 | 178.6 | 163.2 | 142.8 | 122.4 | 91.8 |
| 65° | 321.4 | 301.0 | 280.6 | 260.2 | 234.7 | 214.3 | 193.9 | 173.4 | 158.1 | 137.7 | 107.1 |
| 62.5° | 357.1 | 331.6 | 306.1 | 280.6 | 260.2 | 234.7 | 209.2 | 188.8 | 168.3 | 147.9 | 117.3 |
| 60° | 392.8 | 362.2 | 331.6 | 306.1 | 280.6 | 255.1 | 224.5 | 204.1 | 178.6 | 153.0 | 132.6 |
| 57.5° | 423.4 | 392.8 | 362.2 | 331.6 | 301.0 | 270.4 | 244.9 | 214.3 | 188.8 | 163.2 | 137.7 |
| 55° | 459.1 | 423.4 | 392.8 | 357.1 | 321.4 | 290.8 | 260.2 | 229.6 | 199.0 | 173.4 | 147.9 |
| 52.5° | 489.7 | 454.0 | 418.3 | 382.6 | 346.9 | 311.2 | 275.5 | 239.8 | 209.2 | 178.6 | 153.0 |
| 50° | 515.2 | 484.6 | 443.8 | 408.1 | 367.3 | 326.5 | 290.8 | 255.1 | 219.4 | 188.8 | 158.1 |
| 47.5° | 535.7 | 505.0 | 474.4 | 433.6 | 387.7 | 346.9 | 306.1 | 270.4 | 229.6 | 199.0 | 163.2 |
| 45° | 556.1 | 525.4 | 494.8 | 454.0 | 408.1 | 367.3 | 321.4 | 280.6 | 239.8 | 204.1 | 168.3 |
| 42.5° | 571.4 | 545.9 | 515.2 | 479.5 | 428.5 | 382.6 | 336.7 | 290.8 | 250.0 | 214.3 | 173.4 |
| 40° | 586.7 | 561.2 | 530.5 | 494.8 | 448.9 | 403.0 | 352.0 | 306.1 | 260.2 | 219.4 | 183.7 |
| 37.5° | 596.9 | 576.5 | 545.9 | 510.1 | 469.3 | 418.3 | 367.3 | 316.3 | 270.4 | 229.6 | 188.8 |
| 35° | 607.1 | 586.7 | 556.1 | 525.4 | 484.6 | 433.6 | 382.6 | 326.5 | 280.6 | 234.7 | 193.9 |
| 32.5° | 612.2 | 596.9 | 571.4 | 535.7 | 499.9 | 448.9 | 392.8 | 341.8 | 290.8 | 239.8 | 199.0 |
| 30° | 617.3 | 602.0 | 581.6 | 545.9 | 510.1 | 464.2 | 408.1 | 346.9 | 295.9 | 250.0 | 204.1 |
| 27.5° | 622.4 | 607.1 | 586.7 | 556.1 | 520.3 | 474.4 | 418.3 | 357.1 | 306.1 | 255.1 | 204.1 |
| 25° | 627.5 | 612.2 | 596.9 | 566.3 | 530.5 | 484.6 | 428.5 | 367.3 | 311.2 | 260.2 | 209.2 |
| 22.5° | 632.6 | 617.3 | 602.0 | 576.5 | 540.8 | 494.8 | 438.7 | 377.5 | 316.3 | 265.3 | 214.3 |
| 20° | 637.7 | 622.4 | 607.1 | 581.6 | 545.9 | 499.9 | 443.8 | 382.6 | 326.5 | 270.4 | 219.4 |
| 17.5° | 642.8 | 622.4 | 607.1 | 586.7 | 551.0 | 510.1 | 454.0 | 392.8 | 331.6 | 270.4 | 219.4 |
| 15° | 642.8 | 627.5 | 612.2 | 591.8 | 556.1 | 515.2 | 459.1 | 397.9 | 331.6 | 275.5 | 224.5 |
| 12.5° | 642.8 | 632.6 | 612.2 | 591.8 | 561.2 | 520.3 | 464.2 | 403.0 | 336.7 | 280.6 | 224.5 |
| 10° | 647.9 | 632.6 | 612.2 | 596.9 | 566.3 | 525.4 | 469.3 | 408.1 | 341.8 | 280.6 | 224.5 |
| 7.5° | 647.9 | 637.7 | 617.3 | 596.9 | 566.3 | 525.4 | 474.4 | 408.1 | 341.8 | 285.7 | 229.6 |
| 5° | 647.9 | 637.7 | 617.3 | 602.0 | 571.4 | 530.5 | 479.5 | 413.2 | 346.9 | 285.7 | 229.6 |
| 2.5° | 647.9 | 637.7 | 617.3 | 602.0 | 571.4 | 530.5 | 479.5 | 413.2 | 346.9 | 285.7 | 229.6 |
| 0° | 647.9 | 637.7 | 617.3 | 602.0 | 571.4 | 530.5 | 479.5 | 413.2 | 346.9 | 285.7 | 229.6 |



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| | 82.5° | 85° | 87.5° | 90° |
|-------|-------|-------|-------|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.1 | 5.1 | 0.0 | 0.0 |
| 85° | 15.3 | 10.2 | 5.1 | 0.0 |
| 82.5° | 20.4 | 15.3 | 5.1 | 0.0 |
| 80° | 25.5 | 15.3 | 10.2 | 0.0 |
| 77.5° | 30.6 | 20.4 | 10.2 | 0.0 |
| 75° | 40.8 | 25.5 | 15.3 | 0.0 |
| 72.5° | 45.9 | 30.6 | 15.3 | 0.0 |
| 70° | 51.0 | 35.7 | 15.3 | 0.0 |
| 67.5° | 61.2 | 40.8 | 20.4 | 0.0 |
| 65° | 71.4 | 40.8 | 20.4 | 0.0 |
| 62.5° | 81.6 | 45.9 | 25.5 | 0.0 |
| 60° | 91.8 | 51.0 | 25.5 | 0.0 |
| 57.5° | 102.0 | 56.1 | 25.5 | 0.0 |
| 55° | 107.1 | 61.2 | 30.6 | 0.0 |
| 52.5° | 117.3 | 66.3 | 30.6 | 0.0 |
| 50° | 127.5 | 76.5 | 30.6 | 0.0 |
| 47.5° | 132.6 | 81.6 | 35.7 | 0.0 |
| 45° | 137.7 | 86.7 | 35.7 | 0.0 |
| 42.5° | 142.8 | 91.8 | 35.7 | 0.0 |
| 40° | 147.9 | 96.9 | 40.8 | 0.0 |
| 37.5° | 147.9 | 96.9 | 40.8 | 0.0 |
| 35° | 153.0 | 102.0 | 40.8 | 0.0 |
| 32.5° | 158.1 | 107.1 | 40.8 | 0.0 |
| 30° | 158.1 | 112.2 | 45.9 | 0.0 |
| 27.5° | 163.2 | 112.2 | 45.9 | 0.0 |
| 25° | 163.2 | 117.3 | 45.9 | 0.0 |
| 22.5° | 168.3 | 122.4 | 45.9 | 0.0 |
| 20° | 168.3 | 122.4 | 45.9 | 0.0 |
| 17.5° | 173.4 | 127.5 | 51.0 | 0.0 |
| 15° | 173.4 | 127.5 | 51.0 | 0.0 |
| 12.5° | 173.4 | 127.5 | 51.0 | 0.0 |
| 10° | 178.6 | 132.6 | 51.0 | 0.0 |
| 7.5° | 178.6 | 132.6 | 51.0 | 0.0 |
| 5° | 178.6 | 132.6 | 51.0 | 0.0 |
| 2.5° | 178.6 | 132.6 | 51.0 | 0.0 |
| 0° | 178.6 | 132.6 | 51.0 | 0.0 |

(END OF REPORT)