

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: P723272

Luminaire Tested: **IFLD-M-SA4B-730-U-22**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P723272
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-22
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

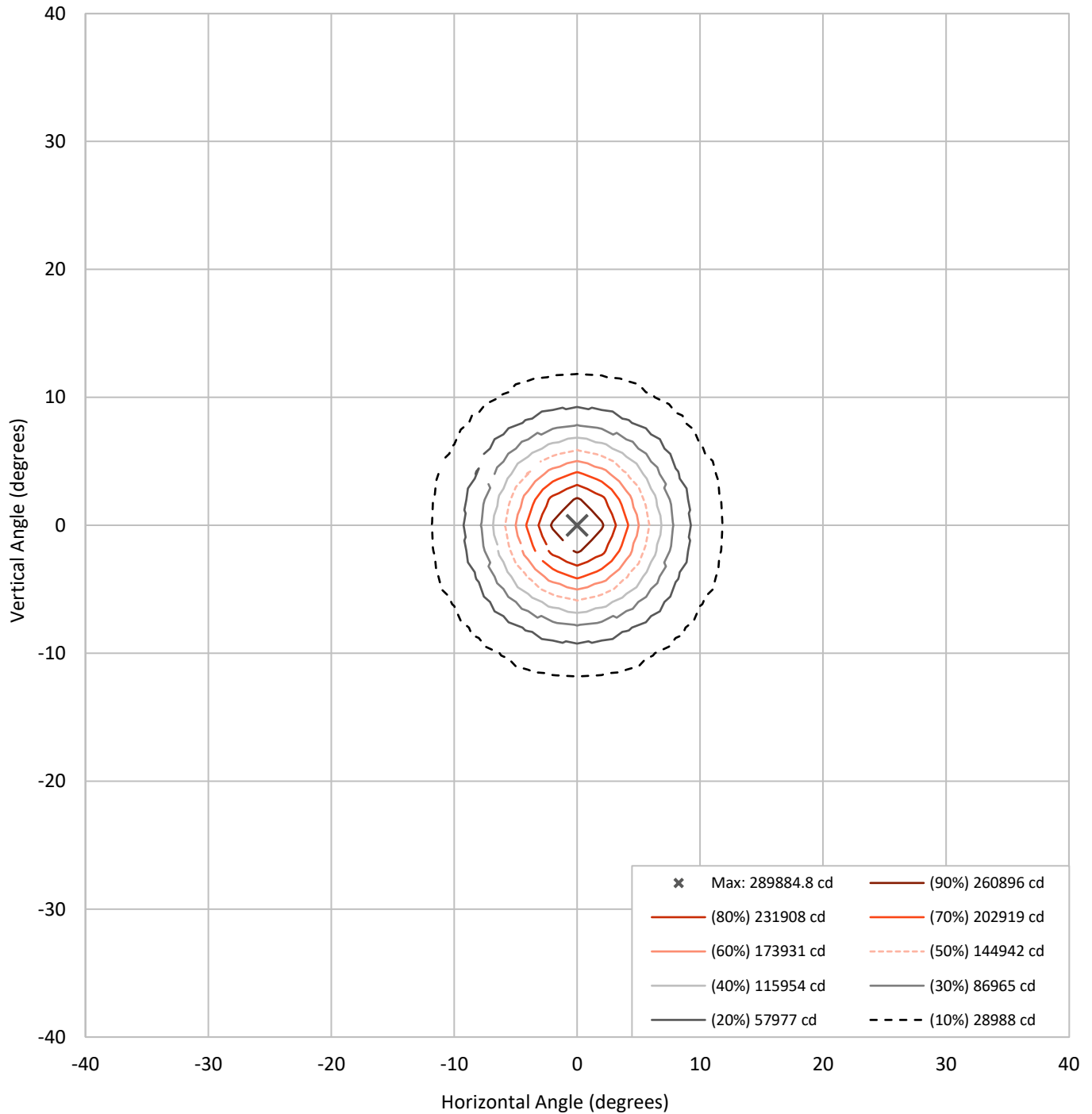
| | | | |
|-------------------|--------------------------------------|----------------------|------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 2H x 2V |
| Luminaire Lumens: | 19411.4 lumens | Max Intensity: | 289884.8 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 116.9 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: | 4702.1 lumens | Field Lumens: | 10105 lumens |
| Beam Efficiency: | 24.2% | Field Efficiency: | 52.1% |

Input Watts (W): 166.1
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: 28.75 FT



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Iso-Candela Plot





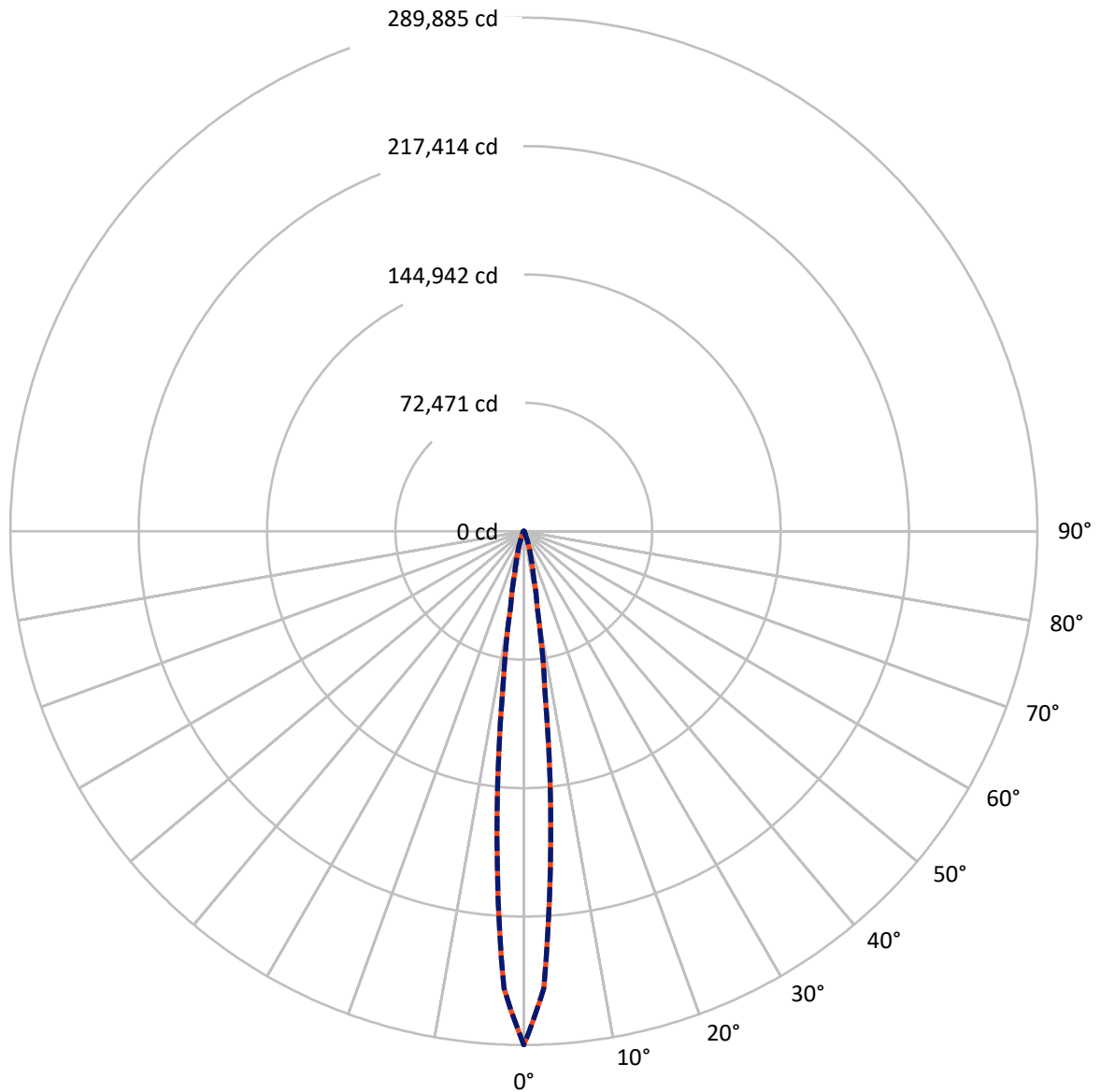
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Lumen Table

| | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|------|------|-------|--------|--------|-------|------|------|-----|-----|-----|-----|----|----|----|
| 90 | 0.6 | 4.1 | | 9.3 | | 14.0 | | 15.9 | | 14.0 | | 9.3 | | 4.1 | | 0.6 | | | |
| 80 | 0.6 | 4.1 | | 9.3 | | 14.0 | | 15.9 | | 14.0 | | 9.3 | | 4.1 | | 0.6 | | | |
| 70 | 1.8 | 1.7 | 3.2 | 5.0 | 6.7 | 8.1 | 9.1 | 9.6 | 9.6 | 9.1 | 8.1 | 6.7 | 5.0 | 3.2 | 1.7 | 1.8 | | | |
| 60 | | 2.4 | 4.5 | 6.6 | 8.4 | 9.7 | 10.6 | 11.0 | 11.0 | 10.6 | 9.7 | 8.4 | 6.6 | 4.5 | 2.4 | | | | |
| 50 | 2.8 | 3.0 | 5.4 | 7.5 | 9.1 | 10.7 | 12.2 | 13.3 | 13.3 | 12.2 | 10.7 | 9.1 | 7.5 | 5.4 | 3.0 | 2.8 | | | |
| 40 | | 3.5 | 5.9 | 7.9 | 10.1 | 13.6 | 17.3 | 19.9 | 19.9 | 17.3 | 13.6 | 10.1 | 7.9 | 5.9 | 3.5 | | | | |
| 30 | 3.4 | 3.8 | 6.1 | 8.3 | 12.3 | 18.7 | 35.5 | 67.9 | 67.9 | 35.5 | 18.7 | 12.3 | 8.3 | 6.1 | 3.8 | 3.4 | | | |
| 20 | | 4.0 | 6.3 | 9.0 | 14.8 | 33.4 | 164.2 | 458.8 | 458.8 | 164.2 | 33.4 | 14.8 | 9.0 | 6.3 | 4.0 | | | | |
| 10 | 3.7 | 4.1 | 6.4 | 9.5 | 16.5 | 62.4 | 447.2 | 3182.1 | 3182.1 | 447.2 | 62.4 | 16.5 | 9.5 | 6.4 | 4.1 | 3.7 | | | |
| 0 | | 4.1 | 6.4 | 9.5 | 16.5 | 62.4 | 447.2 | 3182.1 | 3182.1 | 447.2 | 62.4 | 16.5 | 9.5 | 6.4 | 4.1 | | | | |
| -10 | 3.4 | 4.0 | 6.3 | 9.0 | 14.8 | 33.4 | 164.2 | 458.8 | 458.8 | 164.2 | 33.4 | 14.8 | 9.0 | 6.3 | 4.0 | 3.4 | | | |
| -20 | | 3.8 | 6.1 | 8.3 | 12.3 | 18.7 | 35.5 | 67.9 | 67.9 | 35.5 | 18.7 | 12.3 | 8.3 | 6.1 | 3.8 | | | | |
| -30 | 2.8 | 3.5 | 5.9 | 7.9 | 10.1 | 13.6 | 17.3 | 19.9 | 19.9 | 17.3 | 13.6 | 10.1 | 7.9 | 5.9 | 3.5 | 2.8 | | | |
| -40 | | 3.0 | 5.4 | 7.5 | 9.1 | 10.7 | 12.2 | 13.3 | 13.3 | 12.2 | 10.7 | 9.1 | 7.5 | 5.4 | 3.0 | | | | |
| -50 | 1.8 | 2.4 | 4.5 | 6.6 | 8.4 | 9.7 | 10.6 | 11.0 | 11.0 | 10.6 | 9.7 | 8.4 | 6.6 | 4.5 | 2.4 | 1.8 | | | |
| -60 | | 1.7 | 3.2 | 5.0 | 6.7 | 8.1 | 9.1 | 9.6 | 9.6 | 9.1 | 8.1 | 6.7 | 5.0 | 3.2 | 1.7 | | | | |
| -70 | 0.6 | 4.1 | | 9.3 | | 14.0 | | 15.9 | | 14.0 | | 9.3 | | 4.1 | | 0.6 | | | |
| -80 | | 4.1 | | 9.3 | | 14.0 | | 15.9 | | 14.0 | | 9.3 | | 4.1 | | | | | |
| -90 | 0.6 | 4.1 | | 9.3 | | 14.0 | | 15.9 | | 14.0 | | 9.3 | | 4.1 | | 0.6 | | | |
| | -90 | -80 | -70 | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |

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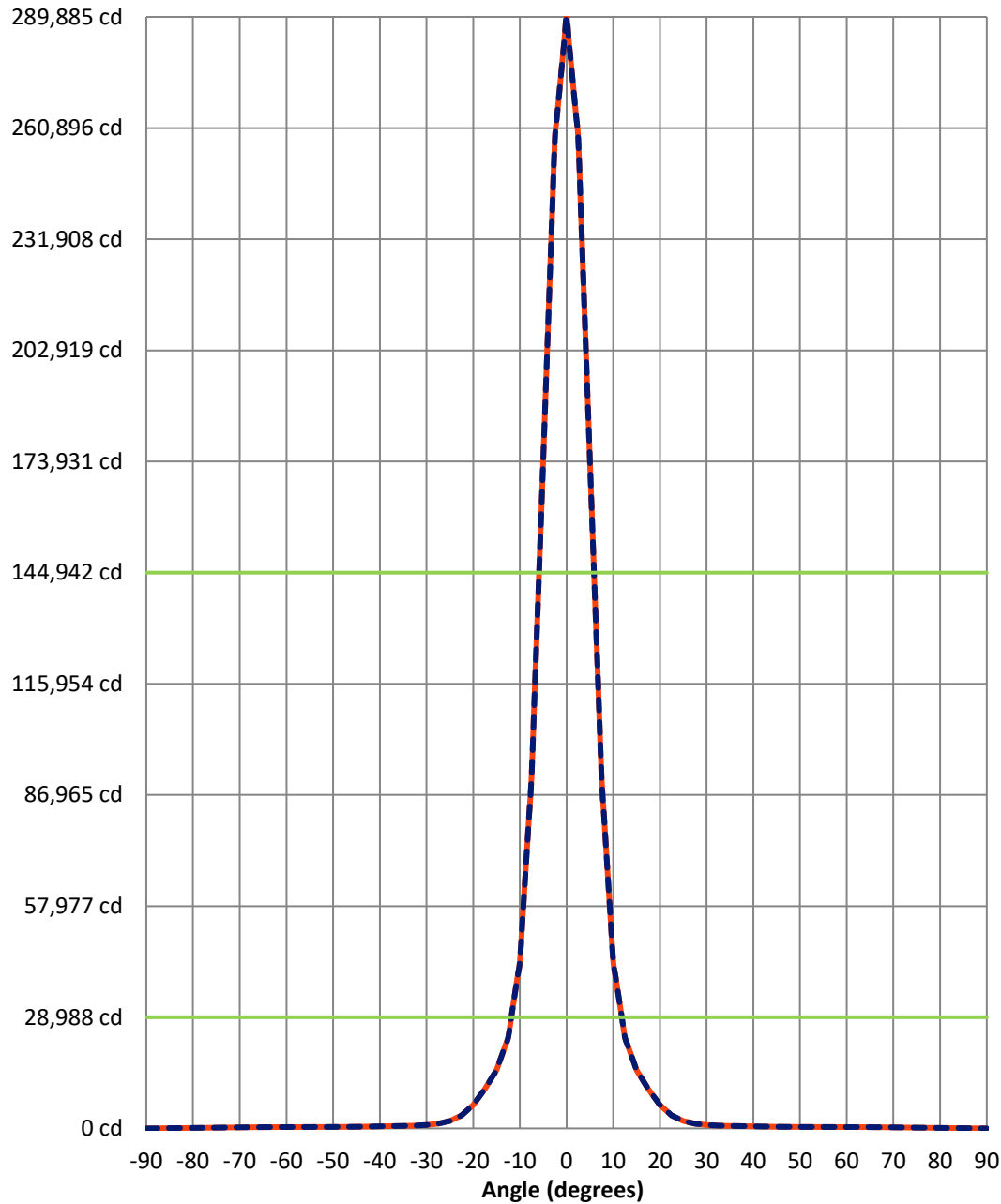
Luminous Intensity Polar Plot



— 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: 4702.1
Efficiency: 24.2%

Field:
H Angle: 23.7°
V Angle: 23.7°
Lumens: 10105
Efficiency: 52.1%

Spill:
Lumens: 9306.5
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° | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 28.6 | 25.8 | 25.8 | 25.8 |
| 85° | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 | 71.6 | 71.6 | 71.6 | 68.8 | 68.8 | 65.9 |
| 82.5° | 100.3 | 100.3 | 100.3 | 100.3 | 100.3 | 97.4 | 97.4 | 97.4 | 94.5 | 94.5 | 91.7 |
| 80° | 128.9 | 128.9 | 128.9 | 128.9 | 126.1 | 126.1 | 126.1 | 123.2 | 123.2 | 120.3 | 117.5 |
| 77.5° | 160.4 | 160.4 | 160.4 | 160.4 | 157.6 | 157.6 | 154.7 | 151.8 | 151.8 | 149.0 | 146.1 |
| 75° | 194.8 | 194.8 | 194.8 | 191.9 | 191.9 | 189.1 | 186.2 | 186.2 | 183.4 | 177.6 | 174.8 |
| 72.5° | 232.1 | 232.1 | 232.1 | 229.2 | 229.2 | 226.3 | 223.5 | 220.6 | 214.9 | 212.0 | 206.3 |
| 70° | 269.3 | 269.3 | 269.3 | 266.4 | 263.6 | 260.7 | 257.8 | 255.0 | 249.2 | 246.4 | 240.7 |
| 67.5° | 297.9 | 297.9 | 297.9 | 295.1 | 295.1 | 292.2 | 289.4 | 286.5 | 280.8 | 277.9 | 272.2 |
| 65° | 320.9 | 320.9 | 320.9 | 318.0 | 318.0 | 315.1 | 312.3 | 309.4 | 306.5 | 303.7 | 297.9 |
| 62.5° | 338.1 | 338.1 | 338.1 | 335.2 | 335.2 | 332.3 | 332.3 | 329.5 | 326.6 | 323.7 | 318.0 |
| 60° | 346.7 | 346.7 | 346.7 | 346.7 | 343.8 | 343.8 | 343.8 | 340.9 | 340.9 | 338.1 | 335.2 |
| 57.5° | 358.1 | 358.1 | 358.1 | 358.1 | 355.2 | 355.2 | 352.4 | 349.5 | 349.5 | 346.7 | 343.8 |
| 55° | 363.8 | 363.8 | 363.8 | 363.8 | 363.8 | 361.0 | 361.0 | 361.0 | 358.1 | 355.2 | 352.4 |
| 52.5° | 372.4 | 372.4 | 372.4 | 372.4 | 369.6 | 369.6 | 366.7 | 366.7 | 363.8 | 361.0 | 361.0 |
| 50° | 383.9 | 383.9 | 383.9 | 381.0 | 381.0 | 378.2 | 375.3 | 372.4 | 372.4 | 369.6 | 366.7 |
| 47.5° | 401.1 | 401.1 | 401.1 | 398.2 | 395.4 | 392.5 | 389.6 | 383.9 | 381.0 | 378.2 | 372.4 |
| 45° | 426.9 | 426.9 | 424.0 | 421.1 | 418.3 | 412.5 | 406.8 | 401.1 | 395.4 | 389.6 | 383.9 |
| 42.5° | 478.4 | 478.4 | 472.7 | 467.0 | 458.4 | 446.9 | 435.5 | 424.0 | 415.4 | 406.8 | 398.2 |
| 40° | 538.6 | 538.6 | 532.9 | 524.3 | 512.8 | 501.4 | 484.2 | 467.0 | 449.8 | 426.9 | 415.4 |
| 37.5° | 598.8 | 598.8 | 593.0 | 584.4 | 573.0 | 555.8 | 538.6 | 518.5 | 495.6 | 469.8 | 446.9 |
| 35° | 644.6 | 644.6 | 638.9 | 633.1 | 621.7 | 610.2 | 593.0 | 573.0 | 547.2 | 518.5 | 489.9 |
| 32.5° | 724.8 | 724.8 | 713.4 | 699.0 | 681.8 | 658.9 | 636.0 | 618.8 | 598.8 | 567.2 | 535.7 |
| 30° | 888.1 | 888.1 | 862.3 | 833.7 | 790.7 | 739.1 | 701.9 | 667.5 | 636.0 | 610.2 | 578.7 |
| 27.5° | 1231.9 | 1217.6 | 1174.6 | 1103.0 | 1008.4 | 888.1 | 819.4 | 742.0 | 690.4 | 644.6 | 616.0 |
| 25° | 1942.4 | 1908.0 | 1810.6 | 1650.2 | 1429.6 | 1194.7 | 1040.0 | 876.7 | 782.1 | 704.8 | 653.2 |
| 22.5° | 3397.8 | 3320.4 | 3094.1 | 2724.5 | 2223.2 | 1776.2 | 1423.9 | 1131.6 | 922.5 | 796.4 | 704.8 |
| 20° | 6108.0 | 5947.5 | 5466.2 | 4692.7 | 3649.9 | 2844.8 | 2051.3 | 1561.4 | 1163.1 | 922.5 | 782.1 |
| 17.5° | 10273.5 | 9987.0 | 9141.9 | 7786.8 | 6108.0 | 4598.2 | 3168.6 | 2203.1 | 1561.4 | 1131.6 | 876.7 |
| 15° | 15224.1 | 14823.0 | 13654.1 | 11794.8 | 9500.0 | 7053.4 | 4924.8 | 3168.6 | 2051.3 | 1423.9 | 1040.0 |
| 12.5° | 23727.1 | 22899.1 | 20501.2 | 16765.4 | 13327.5 | 10095.9 | 7053.4 | 4598.2 | 2844.8 | 1776.2 | 1194.7 |
| 10° | 43535.0 | 41119.9 | 34272.8 | 23907.6 | 18263.7 | 13327.5 | 9500.0 | 6108.0 | 3649.9 | 2223.2 | 1429.6 |
| 7.5° | 91605.1 | 80870.4 | 58378.0 | 38848.0 | 23907.6 | 16765.4 | 11794.8 | 7786.8 | 4692.7 | 2724.5 | 1650.2 |
| 5° | 174194.4 | 152266.5 | 104909.7 | 58378.0 | 34272.8 | 20501.2 | 13654.1 | 9141.9 | 5466.2 | 3094.1 | 1810.6 |
| 2.5° | 258233.4 | 227919.9 | 152266.5 | 80870.4 | 41119.9 | 22899.1 | 14823.0 | 9987.0 | 5947.5 | 3320.4 | 1908.0 |
| 0° | 289884.8 | 258233.4 | 174194.4 | 91605.1 | 43535.0 | 23727.1 | 15224.1 | 10273.5 | 6108.0 | 3397.8 | 1942.4 |



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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° | 25.8 | 25.8 | 22.9 | 22.9 | 22.9 | 22.9 | 20.1 | 20.1 | 20.1 | 17.2 | 17.2 |
| 85° | 63.0 | 63.0 | 60.2 | 57.3 | 54.4 | 54.4 | 51.6 | 48.7 | 45.8 | 43.0 | 37.2 |
| 82.5° | 91.7 | 88.8 | 88.8 | 85.9 | 83.1 | 83.1 | 80.2 | 77.4 | 74.5 | 71.6 | 65.9 |
| 80° | 114.6 | 114.6 | 111.7 | 108.9 | 106.0 | 103.1 | 97.4 | 94.5 | 91.7 | 88.8 | 85.9 |
| 77.5° | 143.2 | 140.4 | 134.7 | 131.8 | 128.9 | 123.2 | 120.3 | 114.6 | 111.7 | 106.0 | 100.3 |
| 75° | 171.9 | 166.2 | 163.3 | 157.6 | 151.8 | 146.1 | 140.4 | 134.7 | 128.9 | 123.2 | 117.5 |
| 72.5° | 200.5 | 194.8 | 191.9 | 183.4 | 177.6 | 171.9 | 163.3 | 157.6 | 151.8 | 143.2 | 134.7 |
| 70° | 234.9 | 229.2 | 220.6 | 214.9 | 206.3 | 197.7 | 189.1 | 180.5 | 171.9 | 163.3 | 154.7 |
| 67.5° | 266.4 | 260.7 | 252.1 | 243.5 | 234.9 | 226.3 | 214.9 | 206.3 | 194.8 | 183.4 | 174.8 |
| 65° | 292.2 | 286.5 | 280.8 | 272.2 | 263.6 | 252.1 | 240.7 | 229.2 | 217.7 | 206.3 | 194.8 |
| 62.5° | 312.3 | 306.5 | 300.8 | 295.1 | 286.5 | 277.9 | 269.3 | 255.0 | 243.5 | 229.2 | 214.9 |
| 60° | 329.5 | 326.6 | 320.9 | 312.3 | 306.5 | 297.9 | 289.4 | 277.9 | 266.4 | 249.2 | 234.9 |
| 57.5° | 340.9 | 338.1 | 335.2 | 329.5 | 323.7 | 315.1 | 306.5 | 295.1 | 283.6 | 272.2 | 255.0 |
| 55° | 349.5 | 346.7 | 343.8 | 340.9 | 335.2 | 329.5 | 320.9 | 312.3 | 300.8 | 289.4 | 275.0 |
| 52.5° | 358.1 | 355.2 | 349.5 | 346.7 | 343.8 | 338.1 | 332.3 | 323.7 | 315.1 | 303.7 | 289.4 |
| 50° | 363.8 | 361.0 | 358.1 | 355.2 | 349.5 | 343.8 | 340.9 | 335.2 | 326.6 | 315.1 | 303.7 |
| 47.5° | 369.6 | 366.7 | 363.8 | 361.0 | 358.1 | 352.4 | 346.7 | 340.9 | 335.2 | 326.6 | 315.1 |
| 45° | 378.2 | 372.4 | 369.6 | 363.8 | 361.0 | 358.1 | 352.4 | 346.7 | 340.9 | 335.2 | 323.7 |
| 42.5° | 389.6 | 381.0 | 378.2 | 372.4 | 366.7 | 363.8 | 358.1 | 352.4 | 346.7 | 340.9 | 332.3 |
| 40° | 404.0 | 395.4 | 386.8 | 378.2 | 372.4 | 366.7 | 363.8 | 358.1 | 352.4 | 343.8 | 338.1 |
| 37.5° | 424.0 | 409.7 | 398.2 | 386.8 | 378.2 | 372.4 | 366.7 | 361.0 | 358.1 | 349.5 | 343.8 |
| 35° | 461.2 | 429.7 | 412.5 | 398.2 | 386.8 | 378.2 | 372.4 | 363.8 | 361.0 | 355.2 | 346.7 |
| 32.5° | 501.4 | 467.0 | 432.6 | 412.5 | 398.2 | 386.8 | 378.2 | 369.6 | 363.8 | 358.1 | 349.5 |
| 30° | 544.3 | 504.2 | 467.0 | 429.7 | 409.7 | 395.4 | 381.0 | 372.4 | 366.7 | 361.0 | 355.2 |
| 27.5° | 584.4 | 544.3 | 501.4 | 461.2 | 424.0 | 404.0 | 389.6 | 378.2 | 369.6 | 363.8 | 358.1 |
| 25° | 616.0 | 578.7 | 535.7 | 489.9 | 446.9 | 415.4 | 398.2 | 383.9 | 372.4 | 366.7 | 361.0 |
| 22.5° | 644.6 | 610.2 | 567.2 | 518.5 | 469.8 | 426.9 | 406.8 | 389.6 | 378.2 | 369.6 | 361.0 |
| 20° | 690.4 | 636.0 | 598.8 | 547.2 | 495.6 | 449.8 | 415.4 | 395.4 | 381.0 | 372.4 | 363.8 |
| 17.5° | 742.0 | 667.5 | 618.8 | 573.0 | 518.5 | 467.0 | 424.0 | 401.1 | 383.9 | 372.4 | 366.7 |
| 15° | 819.4 | 701.9 | 636.0 | 593.0 | 538.6 | 484.2 | 435.5 | 406.8 | 389.6 | 375.3 | 366.7 |
| 12.5° | 888.1 | 739.1 | 658.9 | 610.2 | 555.8 | 501.4 | 446.9 | 412.5 | 392.5 | 378.2 | 369.6 |
| 10° | 1008.4 | 790.7 | 681.8 | 621.7 | 573.0 | 512.8 | 458.4 | 418.3 | 395.4 | 381.0 | 369.6 |
| 7.5° | 1103.0 | 833.7 | 699.0 | 633.1 | 584.4 | 524.3 | 467.0 | 421.1 | 398.2 | 381.0 | 372.4 |
| 5° | 1174.6 | 862.3 | 713.4 | 638.9 | 593.0 | 532.9 | 472.7 | 424.0 | 401.1 | 383.9 | 372.4 |
| 2.5° | 1217.6 | 888.1 | 724.8 | 644.6 | 598.8 | 538.6 | 478.4 | 426.9 | 401.1 | 383.9 | 372.4 |
| 0° | 1231.9 | 888.1 | 724.8 | 644.6 | 598.8 | 538.6 | 478.4 | 426.9 | 401.1 | 383.9 | 372.4 |



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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° | 17.2 | 14.3 | 14.3 | 14.3 | 11.5 | 11.5 | 8.6 | 8.6 | 8.6 | 5.7 | 5.7 |
| 85° | 34.4 | 31.5 | 28.6 | 25.8 | 22.9 | 22.9 | 20.1 | 17.2 | 14.3 | 11.5 | 8.6 |
| 82.5° | 60.2 | 57.3 | 51.6 | 45.8 | 40.1 | 34.4 | 28.6 | 25.8 | 22.9 | 17.2 | 14.3 |
| 80° | 83.1 | 77.4 | 74.5 | 65.9 | 60.2 | 51.6 | 45.8 | 37.2 | 28.6 | 25.8 | 20.1 |
| 77.5° | 97.4 | 91.7 | 85.9 | 83.1 | 77.4 | 68.8 | 60.2 | 51.6 | 43.0 | 31.5 | 25.8 |
| 75° | 111.7 | 106.0 | 100.3 | 94.5 | 88.8 | 80.2 | 74.5 | 65.9 | 54.4 | 43.0 | 28.6 |
| 72.5° | 128.9 | 120.3 | 114.6 | 106.0 | 97.4 | 91.7 | 83.1 | 77.4 | 65.9 | 51.6 | 37.2 |
| 70° | 146.1 | 137.5 | 126.1 | 117.5 | 108.9 | 100.3 | 91.7 | 83.1 | 74.5 | 60.2 | 45.8 |
| 67.5° | 163.3 | 151.8 | 143.2 | 131.8 | 120.3 | 111.7 | 100.3 | 91.7 | 80.2 | 68.8 | 51.6 |
| 65° | 180.5 | 169.0 | 157.6 | 146.1 | 131.8 | 120.3 | 108.9 | 97.4 | 88.8 | 77.4 | 60.2 |
| 62.5° | 200.5 | 186.2 | 171.9 | 157.6 | 146.1 | 131.8 | 117.5 | 106.0 | 94.5 | 83.1 | 65.9 |
| 60° | 220.6 | 203.4 | 186.2 | 171.9 | 157.6 | 143.2 | 126.1 | 114.6 | 100.3 | 85.9 | 74.5 |
| 57.5° | 237.8 | 220.6 | 203.4 | 186.2 | 169.0 | 151.8 | 137.5 | 120.3 | 106.0 | 91.7 | 77.4 |
| 55° | 257.8 | 237.8 | 220.6 | 200.5 | 180.5 | 163.3 | 146.1 | 128.9 | 111.7 | 97.4 | 83.1 |
| 52.5° | 275.0 | 255.0 | 234.9 | 214.9 | 194.8 | 174.8 | 154.7 | 134.7 | 117.5 | 100.3 | 85.9 |
| 50° | 289.4 | 272.2 | 249.2 | 229.2 | 206.3 | 183.4 | 163.3 | 143.2 | 123.2 | 106.0 | 88.8 |
| 47.5° | 300.8 | 283.6 | 266.4 | 243.5 | 217.7 | 194.8 | 171.9 | 151.8 | 128.9 | 111.7 | 91.7 |
| 45° | 312.3 | 295.1 | 277.9 | 255.0 | 229.2 | 206.3 | 180.5 | 157.6 | 134.7 | 114.6 | 94.5 |
| 42.5° | 320.9 | 306.5 | 289.4 | 269.3 | 240.7 | 214.9 | 189.1 | 163.3 | 140.4 | 120.3 | 97.4 |
| 40° | 329.5 | 315.1 | 297.9 | 277.9 | 252.1 | 226.3 | 197.7 | 171.9 | 146.1 | 123.2 | 103.1 |
| 37.5° | 335.2 | 323.7 | 306.5 | 286.5 | 263.6 | 234.9 | 206.3 | 177.6 | 151.8 | 128.9 | 106.0 |
| 35° | 340.9 | 329.5 | 312.3 | 295.1 | 272.2 | 243.5 | 214.9 | 183.4 | 157.6 | 131.8 | 108.9 |
| 32.5° | 343.8 | 335.2 | 320.9 | 300.8 | 280.8 | 252.1 | 220.6 | 191.9 | 163.3 | 134.7 | 111.7 |
| 30° | 346.7 | 338.1 | 326.6 | 306.5 | 286.5 | 260.7 | 229.2 | 194.8 | 166.2 | 140.4 | 114.6 |
| 27.5° | 349.5 | 340.9 | 329.5 | 312.3 | 292.2 | 266.4 | 234.9 | 200.5 | 171.9 | 143.2 | 114.6 |
| 25° | 352.4 | 343.8 | 335.2 | 318.0 | 297.9 | 272.2 | 240.7 | 206.3 | 174.8 | 146.1 | 117.5 |
| 22.5° | 355.2 | 346.7 | 338.1 | 323.7 | 303.7 | 277.9 | 246.4 | 212.0 | 177.6 | 149.0 | 120.3 |
| 20° | 358.1 | 349.5 | 340.9 | 326.6 | 306.5 | 280.8 | 249.2 | 214.9 | 183.4 | 151.8 | 123.2 |
| 17.5° | 361.0 | 349.5 | 340.9 | 329.5 | 309.4 | 286.5 | 255.0 | 220.6 | 186.2 | 151.8 | 123.2 |
| 15° | 361.0 | 352.4 | 343.8 | 332.3 | 312.3 | 289.4 | 257.8 | 223.5 | 186.2 | 154.7 | 126.1 |
| 12.5° | 361.0 | 355.2 | 343.8 | 332.3 | 315.1 | 292.2 | 260.7 | 226.3 | 189.1 | 157.6 | 126.1 |
| 10° | 363.8 | 355.2 | 343.8 | 335.2 | 318.0 | 295.1 | 263.6 | 229.2 | 191.9 | 157.6 | 126.1 |
| 7.5° | 363.8 | 358.1 | 346.7 | 335.2 | 318.0 | 295.1 | 266.4 | 229.2 | 191.9 | 160.4 | 128.9 |
| 5° | 363.8 | 358.1 | 346.7 | 338.1 | 320.9 | 297.9 | 269.3 | 232.1 | 194.8 | 160.4 | 128.9 |
| 2.5° | 363.8 | 358.1 | 346.7 | 338.1 | 320.9 | 297.9 | 269.3 | 232.1 | 194.8 | 160.4 | 128.9 |
| 0° | 363.8 | 358.1 | 346.7 | 338.1 | 320.9 | 297.9 | 269.3 | 232.1 | 194.8 | 160.4 | 128.9 |



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| 90° | 0.0 | 0.0 | 0.0 | 0.0 |
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| 47.5° | 74.5 | 45.8 | 20.1 | 0.0 |
| 45° | 77.4 | 48.7 | 20.1 | 0.0 |
| 42.5° | 80.2 | 51.6 | 20.1 | 0.0 |
| 40° | 83.1 | 54.4 | 22.9 | 0.0 |
| 37.5° | 83.1 | 54.4 | 22.9 | 0.0 |
| 35° | 85.9 | 57.3 | 22.9 | 0.0 |
| 32.5° | 88.8 | 60.2 | 22.9 | 0.0 |
| 30° | 88.8 | 63.0 | 25.8 | 0.0 |
| 27.5° | 91.7 | 63.0 | 25.8 | 0.0 |
| 25° | 91.7 | 65.9 | 25.8 | 0.0 |
| 22.5° | 94.5 | 68.8 | 25.8 | 0.0 |
| 20° | 94.5 | 68.8 | 25.8 | 0.0 |
| 17.5° | 97.4 | 71.6 | 28.6 | 0.0 |
| 15° | 97.4 | 71.6 | 28.6 | 0.0 |
| 12.5° | 97.4 | 71.6 | 28.6 | 0.0 |
| 10° | 100.3 | 74.5 | 28.6 | 0.0 |
| 7.5° | 100.3 | 74.5 | 28.6 | 0.0 |
| 5° | 100.3 | 74.5 | 28.6 | 0.0 |
| 2.5° | 100.3 | 74.5 | 28.6 | 0.0 |
| 0° | 100.3 | 74.5 | 28.6 | 0.0 |

(END OF REPORT)