

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: P623807

Luminaire Tested: **IFLD-L-SA8A-830-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623807  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-55  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

|                   |                                    |                      |                 |
|-------------------|------------------------------------|----------------------|-----------------|
| Lumens per Lamp:  | N/A                                | NEMA Type:           | 5H x 5V         |
| Luminaire Lumens: | 28381.7 lumens                     | Max Intensity:       | 34683.6 candela |
| Efficiency:       | N/A                                | Max Intensity Angle: | 0°H x 10°V      |
| Efficacy:         | 114.5 lumens/watt                  |                      |                 |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') |                      |                 |

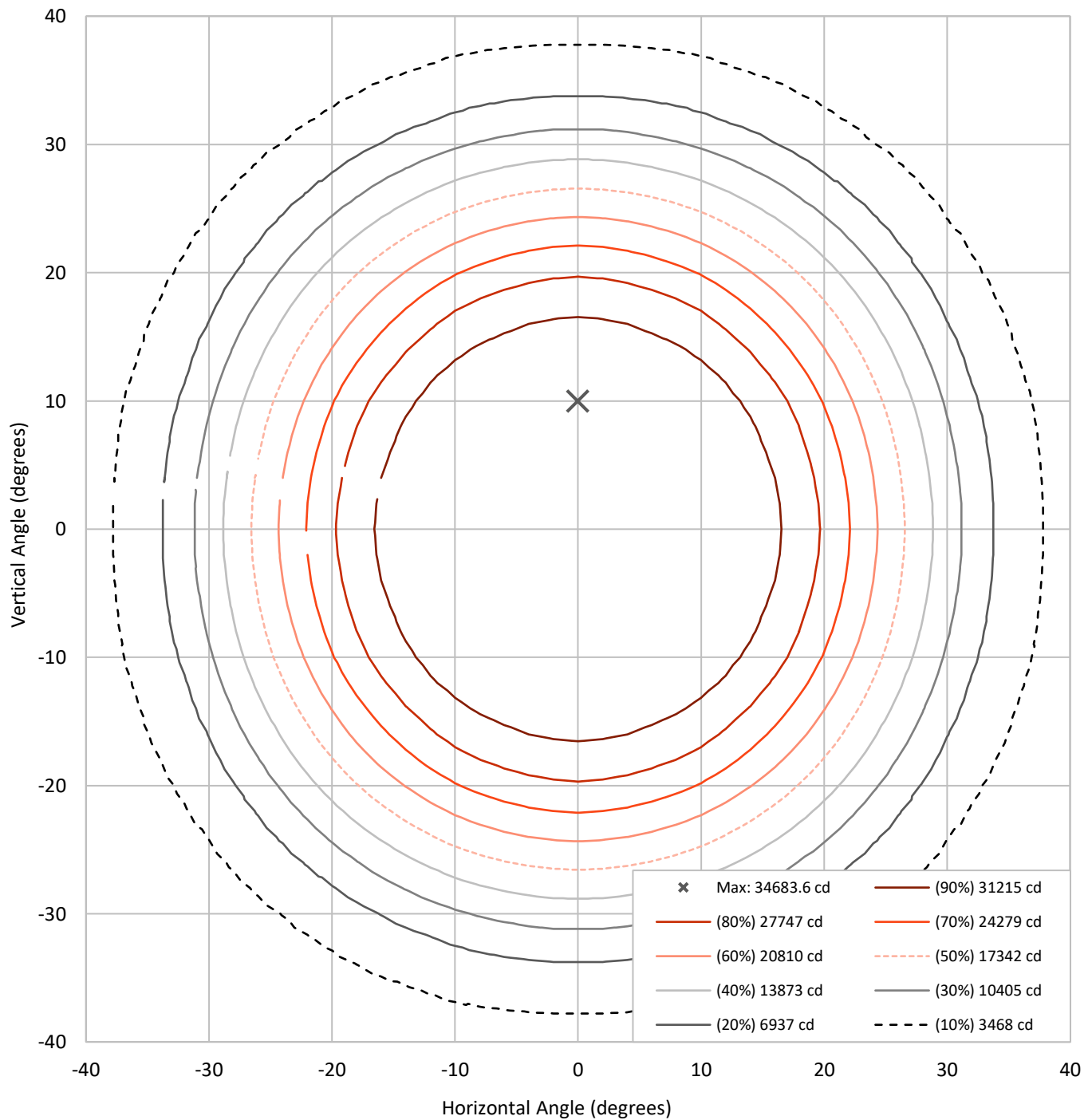
|                   |                 |                    |                 |
|-------------------|-----------------|--------------------|-----------------|
| Beam Angle (50%): | 49.5°H x 53.1°V | Field Angle (10%): | 73.6°H x 75.3°V |
| Beam Lumens:      | 14106.4 lumens  | Field Lumens:      | 18345.8 lumens  |
| Beam Efficiency:  | 49.7%           | Field Efficiency:  | 64.6%           |

Input Watts (W): 247.8  
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: 25 FT



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## Iso-Candela Plot



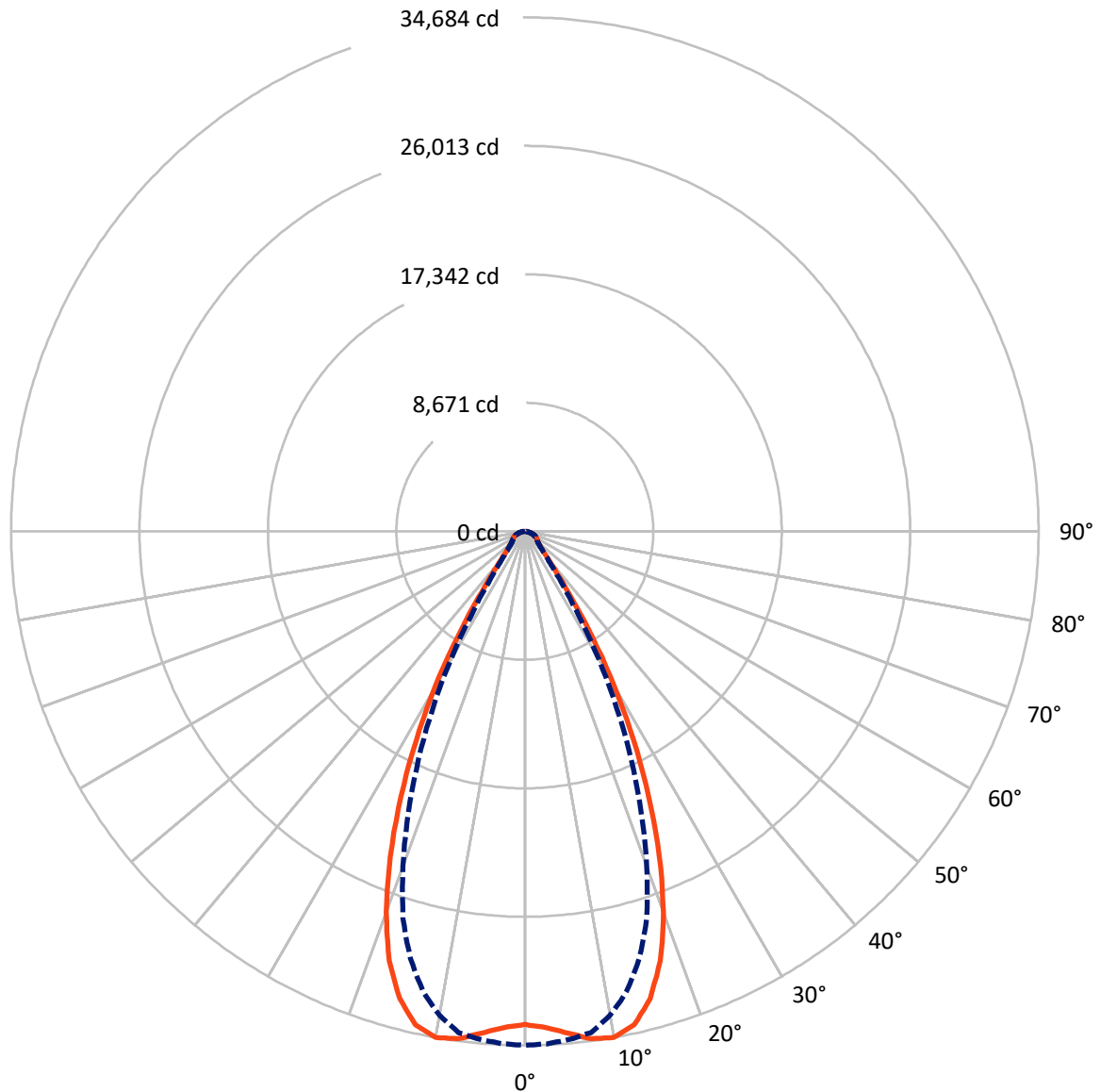
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## Lumen Table

|     |                            |     |      |      |       |       |       |        |        |       |       |       |      |      |     |     |    |    |    |
|-----|----------------------------|-----|------|------|-------|-------|-------|--------|--------|-------|-------|-------|------|------|-----|-----|----|----|----|
| 90  |                            |     |      |      |       |       |       |        |        |       |       |       |      |      |     |     |    |    |    |
| 80  | 0.8                        | 6.2 |      | 16.2 |       | 26.2  |       | 30.3   |        | 26.2  |       | 16.2  |      | 6.2  |     | 0.8 |    |    |    |
| 70  |                            |     |      |      |       |       |       |        |        |       |       |       |      |      |     |     |    |    |    |
| 60  | 2.9                        | 3.1 | 6.4  | 10.6 | 14.9  | 18.6  | 21.3  | 22.7   | 22.7   | 21.3  | 18.6  | 14.9  | 10.6 | 6.4  | 3.1 | 2.9 |    |    |    |
| 50  |                            | 4.8 | 9.8  | 15.6 | 20.9  | 25.4  | 28.9  | 30.8   | 30.8   | 28.9  | 25.4  | 20.9  | 15.6 | 9.8  | 4.8 |     |    |    |    |
| 40  | 5.0                        | 6.4 | 12.7 | 19.1 | 25.7  | 33.3  | 42.1  | 48.9   | 48.9   | 42.1  | 33.3  | 25.7  | 19.1 | 12.7 | 6.4 | 5.0 |    |    |    |
| 30  |                            | 7.8 | 14.7 | 22.2 | 33.7  | 60.0  | 117.2 | 176.7  | 176.7  | 117.2 | 60.0  | 33.7  | 22.2 | 14.7 | 7.8 |     |    |    |    |
| 20  | 6.7                        | 8.8 | 16.1 | 26.0 | 54.4  | 173.4 | 401.8 | 570.3  | 570.3  | 401.8 | 173.4 | 54.4  | 26.0 | 16.1 | 8.8 | 6.7 |    |    |    |
| 10  |                            | 9.4 | 17.2 | 31.0 | 100.4 | 378.5 | 740.5 | 944.0  | 944.0  | 740.5 | 378.5 | 100.4 | 31.0 | 17.2 | 9.4 |     |    |    |    |
| 0   | 7.3                        | 9.8 | 17.8 | 35.0 | 147.4 | 521.4 | 916.1 | 1038.9 | 1038.9 | 916.1 | 521.4 | 147.4 | 35.0 | 17.8 | 9.8 | 7.3 |    |    |    |
| -10 |                            | 9.8 | 17.8 | 35.0 | 147.4 | 521.4 | 916.1 | 1038.9 | 1038.9 | 916.1 | 521.4 | 147.4 | 35.0 | 17.8 | 9.8 |     |    |    |    |
| -20 | 6.7                        | 9.4 | 17.2 | 31.0 | 100.4 | 378.5 | 740.5 | 944.0  | 944.0  | 740.5 | 378.5 | 100.4 | 31.0 | 17.2 | 9.4 | 6.7 |    |    |    |
| -30 |                            | 8.8 | 16.1 | 26.0 | 54.4  | 173.4 | 401.8 | 570.3  | 570.3  | 401.8 | 173.4 | 54.4  | 26.0 | 16.1 | 8.8 |     |    |    |    |
| -40 | 5.0                        | 7.8 | 14.7 | 22.2 | 33.7  | 60.0  | 117.2 | 176.7  | 176.7  | 117.2 | 60.0  | 33.7  | 22.2 | 14.7 | 7.8 | 5.0 |    |    |    |
| -50 |                            | 6.4 | 12.7 | 19.1 | 25.7  | 33.3  | 42.1  | 48.9   | 48.9   | 42.1  | 33.3  | 25.7  | 19.1 | 12.7 | 6.4 |     |    |    |    |
| -60 | 2.9                        | 4.8 | 9.8  | 15.6 | 20.9  | 25.4  | 28.9  | 30.8   | 30.8   | 28.9  | 25.4  | 20.9  | 15.6 | 9.8  | 4.8 | 2.9 |    |    |    |
| -70 |                            | 3.1 | 6.4  | 10.6 | 14.9  | 18.6  | 21.3  | 22.7   | 22.7   | 21.3  | 18.6  | 14.9  | 10.6 | 6.4  | 3.1 |     |    |    |    |
| -80 | 0.8                        | 6.2 |      | 16.2 |       | 26.2  |       | 30.3   |        | 26.2  |       | 16.2  |      | 6.2  |     | 0.8 |    |    |    |
| -90 |                            |     |      |      |       |       |       |        |        |       |       |       |      |      |     |     |    |    |    |
|     | -90                        | -80 | -70  | -60  | -50   | -40   | -30   | -20    | -10    | 0     | 10    | 20    | 30   | 40   | 50  | 60  | 70 | 80 | 90 |
|     | Horizontal Angle (degrees) |     |      |      |       |       |       |        |        |       |       |       |      |      |     |     |    |    |    |

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## Luminous Intensity Polar Plot

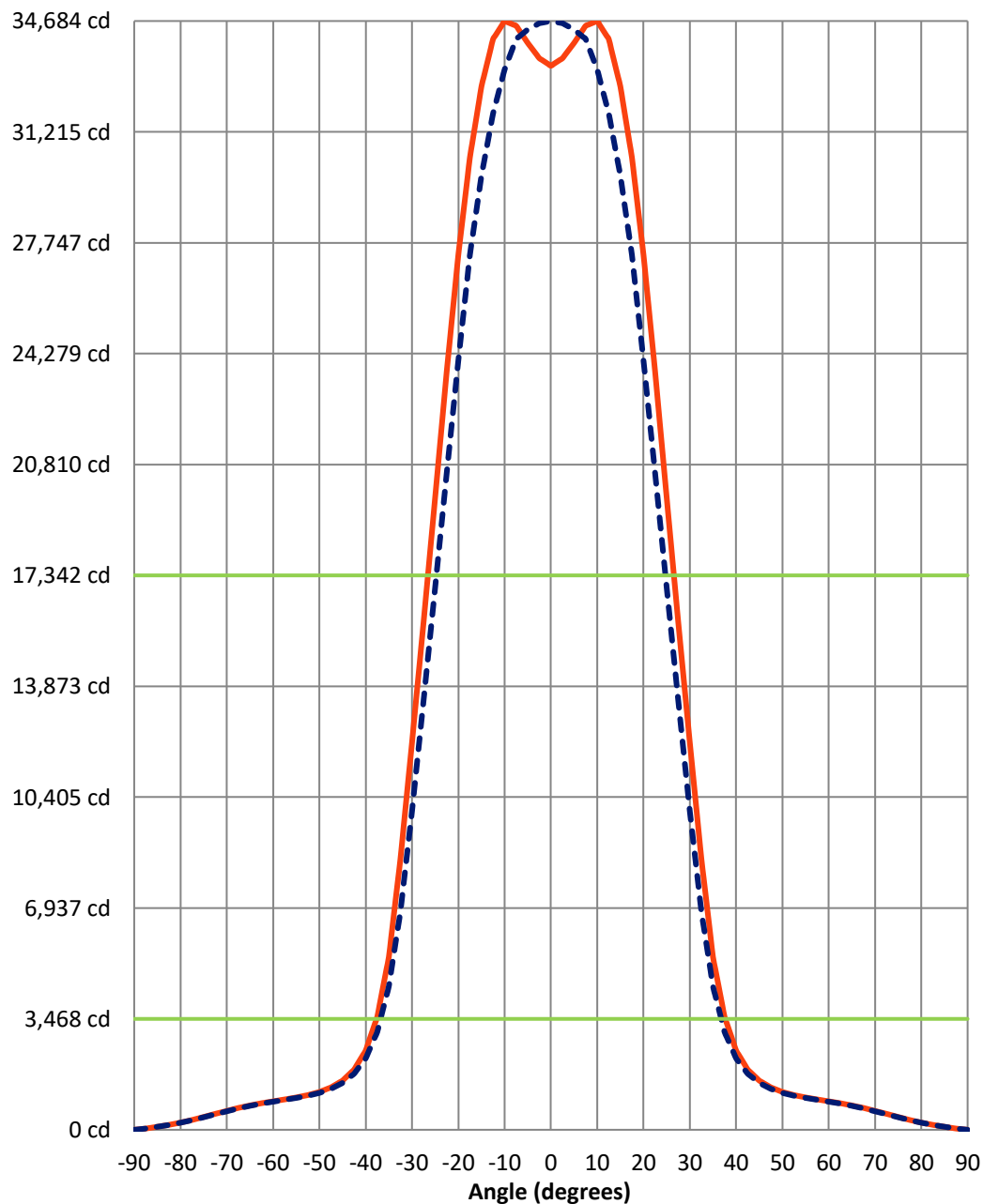


— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 10-Deg

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## Luminous Intensity Plot



### Beam:

H Angle: 49.5°  
V Angle: 53.1°  
Lumens: 14106.4  
Efficiency: 49.7%

### Field:

H Angle: 73.6°  
V Angle: 75.3°  
Lumens: 18345.8  
Efficiency: 64.6%

### Spill:

Lumens: 10035.9  
Efficiency: 35.4%

— Vertical Distribution through 0-Deg  
- - Horizontal Distribution through 10-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° | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 35.4    | 35.4    | 35.4    | 35.4    |
| 85°   | 94.3    | 94.3    | 94.3    | 94.3    | 94.3    | 91.4    | 91.4    | 88.4    | 88.4    | 85.5    | 82.6    |
| 82.5° | 153.3   | 153.3   | 153.3   | 153.3   | 150.4   | 150.4   | 147.4   | 144.5   | 141.5   | 138.6   | 135.6   |
| 80°   | 224.1   | 224.1   | 224.1   | 224.1   | 221.1   | 218.2   | 215.2   | 212.3   | 206.4   | 203.4   | 197.5   |
| 77.5° | 306.6   | 306.6   | 306.6   | 303.7   | 300.7   | 297.8   | 291.9   | 286.0   | 280.1   | 274.2   | 268.3   |
| 75°   | 401.0   | 401.0   | 401.0   | 395.1   | 392.1   | 386.2   | 380.3   | 374.4   | 365.6   | 356.7   | 347.9   |
| 72.5° | 498.3   | 498.3   | 498.3   | 492.4   | 486.5   | 480.6   | 474.7   | 465.8   | 457.0   | 445.2   | 433.4   |
| 70°   | 589.7   | 589.7   | 589.7   | 583.8   | 577.9   | 572.0   | 563.1   | 554.3   | 542.5   | 530.7   | 518.9   |
| 67.5° | 684.0   | 684.0   | 684.0   | 675.2   | 669.3   | 663.4   | 654.5   | 642.7   | 630.9   | 616.2   | 601.4   |
| 65°   | 760.7   | 760.7   | 757.7   | 754.8   | 748.9   | 740.0   | 734.1   | 722.3   | 710.5   | 698.7   | 684.0   |
| 62.5° | 831.4   | 831.4   | 828.5   | 825.5   | 819.6   | 810.8   | 801.9   | 793.1   | 781.3   | 766.6   | 751.8   |
| 60°   | 890.4   | 890.4   | 887.4   | 884.5   | 878.6   | 872.7   | 863.8   | 855.0   | 843.2   | 831.4   | 816.7   |
| 57.5° | 949.3   | 949.3   | 946.4   | 943.4   | 937.6   | 928.7   | 919.9   | 911.0   | 899.2   | 884.5   | 869.7   |
| 55°   | 1011.3  | 1011.3  | 1008.3  | 1002.4  | 996.5   | 987.7   | 978.8   | 967.0   | 952.3   | 937.6   | 922.8   |
| 52.5° | 1085.0  | 1085.0  | 1079.1  | 1073.2  | 1064.3  | 1055.5  | 1040.7  | 1026.0  | 1008.3  | 990.6   | 972.9   |
| 50°   | 1182.3  | 1182.3  | 1176.4  | 1167.5  | 1152.8  | 1138.0  | 1120.3  | 1096.8  | 1076.1  | 1052.5  | 1028.9  |
| 47.5° | 1326.7  | 1326.7  | 1314.9  | 1300.2  | 1279.6  | 1256.0  | 1223.5  | 1188.2  | 1158.7  | 1129.2  | 1093.8  |
| 45°   | 1539.0  | 1539.0  | 1521.3  | 1497.7  | 1465.3  | 1424.0  | 1376.8  | 1326.7  | 1276.6  | 1226.5  | 1176.4  |
| 42.5° | 1884.0  | 1884.0  | 1851.5  | 1810.2  | 1754.2  | 1683.5  | 1595.0  | 1512.5  | 1441.7  | 1362.1  | 1294.3  |
| 40°   | 2479.5  | 2479.5  | 2417.6  | 2340.9  | 2234.8  | 2099.2  | 1937.0  | 1807.3  | 1683.5  | 1544.9  | 1450.6  |
| 37.5° | 3537.9  | 3537.9  | 3417.1  | 3269.6  | 3063.3  | 2803.8  | 2491.3  | 2282.0  | 2052.0  | 1833.8  | 1674.6  |
| 35°   | 5407.1  | 5407.1  | 5174.2  | 4888.2  | 4490.2  | 3989.0  | 3455.4  | 3060.3  | 2621.0  | 2284.9  | 1987.1  |
| 32.5° | 8473.4  | 8473.4  | 8054.7  | 7538.8  | 6828.2  | 5929.0  | 5074.0  | 4322.2  | 3537.9  | 2980.7  | 2444.1  |
| 30°   | 12117.4 | 12117.4 | 11569.0 | 10893.9 | 9968.1  | 8800.6  | 7583.0  | 6247.4  | 5009.1  | 4015.6  | 3204.8  |
| 27.5° | 15885.3 | 15729.1 | 15257.3 | 14487.8 | 13432.4 | 12117.4 | 10599.1 | 8874.3  | 7199.7  | 5448.4  | 4289.7  |
| 25°   | 19783.0 | 19600.2 | 19060.6 | 18176.1 | 16967.4 | 15478.5 | 13768.5 | 11840.3 | 9773.5  | 7686.2  | 5681.3  |
| 22.5° | 23721.9 | 23515.5 | 22902.2 | 21902.8 | 20546.6 | 18877.8 | 16940.8 | 14797.4 | 12488.9 | 10077.2 | 7686.2  |
| 20°   | 27363.0 | 27144.8 | 26502.1 | 25461.3 | 24058.0 | 22227.1 | 20074.8 | 17698.5 | 15145.3 | 12488.9 | 9773.5  |
| 17.5° | 30411.5 | 30202.2 | 29583.0 | 28589.5 | 27363.0 | 25337.5 | 23099.8 | 20487.6 | 17698.5 | 14797.4 | 11840.3 |
| 15°   | 32637.5 | 32457.6 | 31929.9 | 31095.5 | 29845.4 | 28052.9 | 25773.9 | 23099.8 | 20074.8 | 16940.8 | 13768.5 |
| 12.5° | 34114.5 | 33970.1 | 33554.4 | 32905.8 | 31785.4 | 30281.8 | 28052.9 | 25337.5 | 22227.1 | 18877.8 | 15478.5 |
| 10°   | 34683.6 | 34612.8 | 34418.2 | 34120.4 | 33165.2 | 31785.4 | 29845.4 | 27363.0 | 24058.0 | 20546.6 | 16967.4 |
| 7.5°  | 34533.2 | 34556.8 | 34624.6 | 34547.9 | 34120.4 | 32905.8 | 31095.5 | 28589.5 | 25461.3 | 21902.8 | 18176.1 |
| 5°    | 33996.6 | 34123.4 | 34438.9 | 34624.6 | 34418.2 | 33554.4 | 31929.9 | 29583.0 | 26502.1 | 22902.2 | 19060.6 |
| 2.5°  | 33519.0 | 33716.5 | 34123.4 | 34556.8 | 34612.8 | 33970.1 | 32457.6 | 30202.2 | 27144.8 | 23515.5 | 19600.2 |
| 0°    | 33283.1 | 33519.0 | 33996.6 | 34533.2 | 34683.6 | 34114.5 | 32637.5 | 30411.5 | 27363.0 | 23721.9 | 19783.0 |

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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° | 35.4    | 32.4    | 32.4   | 32.4   | 29.5   | 29.5   | 29.5   | 26.5   | 26.5   | 23.6   | 23.6   |
| 85°   | 82.6    | 79.6    | 76.7   | 73.7   | 70.8   | 67.8   | 64.9   | 61.9   | 59.0   | 53.1   | 50.1   |
| 82.5° | 132.7   | 129.7   | 126.8  | 120.9  | 117.9  | 112.0  | 106.1  | 100.2  | 94.3   | 91.4   | 85.5   |
| 80°   | 191.6   | 185.7   | 179.8  | 173.9  | 165.1  | 156.3  | 150.4  | 141.5  | 135.6  | 126.8  | 120.9  |
| 77.5° | 259.4   | 250.6   | 241.8  | 230.0  | 221.1  | 212.3  | 200.5  | 191.6  | 179.8  | 168.1  | 156.3  |
| 75°   | 336.1   | 324.3   | 309.6  | 297.8  | 286.0  | 271.2  | 256.5  | 241.8  | 227.0  | 212.3  | 197.5  |
| 72.5° | 418.7   | 403.9   | 389.2  | 374.4  | 356.7  | 336.1  | 318.4  | 297.8  | 280.1  | 262.4  | 241.8  |
| 70°   | 504.2   | 486.5   | 468.8  | 451.1  | 430.4  | 406.9  | 386.2  | 362.6  | 339.1  | 315.5  | 291.9  |
| 67.5° | 583.8   | 566.1   | 545.4  | 527.7  | 504.2  | 480.6  | 454.0  | 427.5  | 401.0  | 371.5  | 342.0  |
| 65°   | 666.3   | 645.7   | 622.1  | 598.5  | 574.9  | 548.4  | 521.8  | 495.3  | 462.9  | 430.4  | 401.0  |
| 62.5° | 734.1   | 716.4   | 695.8  | 672.2  | 645.7  | 616.2  | 589.7  | 554.3  | 521.8  | 489.4  | 451.1  |
| 60°   | 799.0   | 778.3   | 760.7  | 734.1  | 710.5  | 684.0  | 651.6  | 616.2  | 580.8  | 542.5  | 507.1  |
| 57.5° | 855.0   | 837.3   | 816.7  | 793.1  | 766.6  | 740.0  | 710.5  | 678.1  | 636.8  | 598.5  | 557.2  |
| 55°   | 905.1   | 884.5   | 863.8  | 843.2  | 819.6  | 790.1  | 760.7  | 728.2  | 692.8  | 651.6  | 607.3  |
| 52.5° | 955.2   | 934.6   | 911.0  | 890.4  | 863.8  | 837.3  | 807.8  | 775.4  | 740.0  | 701.7  | 654.5  |
| 50°   | 1005.4  | 981.8   | 958.2  | 931.7  | 905.1  | 878.6  | 849.1  | 819.6  | 781.3  | 743.0  | 701.7  |
| 47.5° | 1064.3  | 1034.8  | 1005.4 | 975.9  | 949.3  | 916.9  | 887.4  | 855.0  | 822.6  | 781.3  | 740.0  |
| 45°   | 1138.0  | 1093.8  | 1058.4 | 1023.1 | 990.6  | 958.2  | 922.8  | 890.4  | 855.0  | 819.6  | 775.4  |
| 42.5° | 1229.4  | 1170.5  | 1123.3 | 1076.1 | 1034.8 | 996.5  | 961.1  | 922.8  | 887.4  | 849.1  | 807.8  |
| 40°   | 1353.3  | 1273.7  | 1197.0 | 1138.0 | 1085.0 | 1037.8 | 996.5  | 958.2  | 916.9  | 878.6  | 837.3  |
| 37.5° | 1515.4  | 1403.4  | 1297.2 | 1211.7 | 1143.9 | 1085.0 | 1034.8 | 990.6  | 949.3  | 905.1  | 863.8  |
| 35°   | 1760.1  | 1565.5  | 1429.9 | 1306.1 | 1211.7 | 1138.0 | 1076.1 | 1023.1 | 975.9  | 931.7  | 890.4  |
| 32.5° | 2105.1  | 1804.3  | 1586.2 | 1429.9 | 1297.2 | 1197.0 | 1123.3 | 1058.4 | 1005.4 | 958.2  | 911.0  |
| 30°   | 2559.1  | 2143.4  | 1804.3 | 1565.5 | 1403.4 | 1273.7 | 1170.5 | 1093.8 | 1034.8 | 981.8  | 934.6  |
| 27.5° | 3278.5  | 2559.1  | 2105.1 | 1760.1 | 1515.4 | 1353.3 | 1229.4 | 1138.0 | 1064.3 | 1005.4 | 955.2  |
| 25°   | 4289.7  | 3204.8  | 2444.1 | 1987.1 | 1674.6 | 1450.6 | 1294.3 | 1176.4 | 1093.8 | 1028.9 | 972.9  |
| 22.5° | 5448.4  | 4015.6  | 2980.7 | 2284.9 | 1833.8 | 1544.9 | 1362.1 | 1226.5 | 1129.2 | 1052.5 | 990.6  |
| 20°   | 7199.7  | 5009.1  | 3537.9 | 2621.0 | 2052.0 | 1683.5 | 1441.7 | 1276.6 | 1158.7 | 1076.1 | 1008.3 |
| 17.5° | 8874.3  | 6247.4  | 4322.2 | 3060.3 | 2282.0 | 1807.3 | 1512.5 | 1326.7 | 1188.2 | 1096.8 | 1026.0 |
| 15°   | 10599.1 | 7583.0  | 5074.0 | 3455.4 | 2491.3 | 1937.0 | 1595.0 | 1376.8 | 1223.5 | 1120.3 | 1040.7 |
| 12.5° | 12117.4 | 8800.6  | 5929.0 | 3989.0 | 2803.8 | 2099.2 | 1683.5 | 1424.0 | 1256.0 | 1138.0 | 1055.5 |
| 10°   | 13432.4 | 9968.1  | 6828.2 | 4490.2 | 3063.3 | 2234.8 | 1754.2 | 1465.3 | 1279.6 | 1152.8 | 1064.3 |
| 7.5°  | 14487.8 | 10893.9 | 7538.8 | 4888.2 | 3269.6 | 2340.9 | 1810.2 | 1497.7 | 1300.2 | 1167.5 | 1073.2 |
| 5°    | 15257.3 | 11569.0 | 8054.7 | 5174.2 | 3417.1 | 2417.6 | 1851.5 | 1521.3 | 1314.9 | 1176.4 | 1079.1 |
| 2.5°  | 15729.1 | 12117.4 | 8473.4 | 5407.1 | 3537.9 | 2479.5 | 1884.0 | 1539.0 | 1326.7 | 1182.3 | 1085.0 |
| 0°    | 15885.3 | 12117.4 | 8473.4 | 5407.1 | 3537.9 | 2479.5 | 1884.0 | 1539.0 | 1326.7 | 1182.3 | 1085.0 |



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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° | 20.6   | 20.6  | 17.7  | 17.7  | 14.7  | 14.7  | 11.8  | 11.8  | 8.8   | 8.8   | 5.9   |
| 85°   | 47.2   | 41.3  | 38.3  | 35.4  | 32.4  | 29.5  | 26.5  | 23.6  | 20.6  | 17.7  | 14.7  |
| 82.5° | 79.6   | 73.7  | 64.9  | 59.0  | 53.1  | 47.2  | 38.3  | 35.4  | 29.5  | 23.6  | 20.6  |
| 80°   | 112.0  | 103.2 | 94.3  | 85.5  | 76.7  | 67.8  | 59.0  | 50.1  | 41.3  | 32.4  | 26.5  |
| 77.5° | 144.5  | 132.7 | 123.8 | 112.0 | 100.2 | 88.4  | 76.7  | 64.9  | 53.1  | 41.3  | 32.4  |
| 75°   | 182.8  | 168.1 | 153.3 | 138.6 | 123.8 | 109.1 | 97.3  | 82.6  | 67.8  | 53.1  | 41.3  |
| 72.5° | 224.1  | 203.4 | 185.7 | 168.1 | 147.4 | 132.7 | 115.0 | 100.2 | 82.6  | 64.9  | 50.1  |
| 70°   | 268.3  | 244.7 | 221.1 | 197.5 | 176.9 | 153.3 | 135.6 | 115.0 | 97.3  | 76.7  | 59.0  |
| 67.5° | 312.5  | 286.0 | 259.4 | 230.0 | 203.4 | 179.8 | 153.3 | 132.7 | 109.1 | 88.4  | 67.8  |
| 65°   | 365.6  | 330.2 | 297.8 | 265.3 | 232.9 | 203.4 | 176.9 | 147.4 | 123.8 | 100.2 | 76.7  |
| 62.5° | 415.7  | 377.4 | 339.1 | 300.7 | 265.3 | 230.0 | 197.5 | 168.1 | 138.6 | 112.0 | 85.5  |
| 60°   | 465.8  | 424.6 | 380.3 | 339.1 | 297.8 | 259.4 | 221.1 | 185.7 | 153.3 | 123.8 | 94.3  |
| 57.5° | 515.9  | 468.8 | 424.6 | 377.4 | 330.2 | 286.0 | 244.7 | 203.4 | 168.1 | 132.7 | 103.2 |
| 55°   | 560.2  | 515.9 | 465.8 | 415.7 | 365.6 | 312.5 | 268.3 | 224.1 | 182.8 | 144.5 | 112.0 |
| 52.5° | 607.3  | 557.2 | 507.1 | 451.1 | 401.0 | 342.0 | 291.9 | 241.8 | 197.5 | 156.3 | 120.9 |
| 50°   | 651.6  | 598.5 | 542.5 | 489.4 | 430.4 | 371.5 | 315.5 | 262.4 | 212.3 | 168.1 | 126.8 |
| 47.5° | 692.8  | 636.8 | 580.8 | 521.8 | 462.9 | 401.0 | 339.1 | 280.1 | 227.0 | 179.8 | 135.6 |
| 45°   | 728.2  | 678.1 | 616.2 | 554.3 | 495.3 | 427.5 | 362.6 | 297.8 | 241.8 | 191.6 | 141.5 |
| 42.5° | 760.7  | 710.5 | 651.6 | 589.7 | 521.8 | 454.0 | 386.2 | 318.4 | 256.5 | 200.5 | 150.4 |
| 40°   | 790.1  | 740.0 | 684.0 | 616.2 | 548.4 | 480.6 | 406.9 | 336.1 | 271.2 | 212.3 | 156.3 |
| 37.5° | 819.6  | 766.6 | 710.5 | 645.7 | 574.9 | 504.2 | 430.4 | 356.7 | 286.0 | 221.1 | 165.1 |
| 35°   | 843.2  | 793.1 | 734.1 | 672.2 | 598.5 | 527.7 | 451.1 | 374.4 | 297.8 | 230.0 | 173.9 |
| 32.5° | 863.8  | 816.7 | 760.7 | 695.8 | 622.1 | 545.4 | 468.8 | 389.2 | 309.6 | 241.8 | 179.8 |
| 30°   | 884.5  | 837.3 | 778.3 | 716.4 | 645.7 | 566.1 | 486.5 | 403.9 | 324.3 | 250.6 | 185.7 |
| 27.5° | 905.1  | 855.0 | 799.0 | 734.1 | 666.3 | 583.8 | 504.2 | 418.7 | 336.1 | 259.4 | 191.6 |
| 25°   | 922.8  | 869.7 | 816.7 | 751.8 | 684.0 | 601.4 | 518.9 | 433.4 | 347.9 | 268.3 | 197.5 |
| 22.5° | 937.6  | 884.5 | 831.4 | 766.6 | 698.7 | 616.2 | 530.7 | 445.2 | 356.7 | 274.2 | 203.4 |
| 20°   | 952.3  | 899.2 | 843.2 | 781.3 | 710.5 | 630.9 | 542.5 | 457.0 | 365.6 | 280.1 | 206.4 |
| 17.5° | 967.0  | 911.0 | 855.0 | 793.1 | 722.3 | 642.7 | 554.3 | 465.8 | 374.4 | 286.0 | 212.3 |
| 15°   | 978.8  | 919.9 | 863.8 | 801.9 | 734.1 | 654.5 | 563.1 | 474.7 | 380.3 | 291.9 | 215.2 |
| 12.5° | 987.7  | 928.7 | 872.7 | 810.8 | 740.0 | 663.4 | 572.0 | 480.6 | 386.2 | 297.8 | 218.2 |
| 10°   | 996.5  | 937.6 | 878.6 | 819.6 | 748.9 | 669.3 | 577.9 | 486.5 | 392.1 | 300.7 | 221.1 |
| 7.5°  | 1002.4 | 943.4 | 884.5 | 825.5 | 754.8 | 675.2 | 583.8 | 492.4 | 395.1 | 303.7 | 224.1 |
| 5°    | 1008.3 | 946.4 | 887.4 | 828.5 | 757.7 | 684.0 | 589.7 | 498.3 | 401.0 | 306.6 | 224.1 |
| 2.5°  | 1011.3 | 949.3 | 890.4 | 831.4 | 760.7 | 684.0 | 589.7 | 498.3 | 401.0 | 306.6 | 224.1 |
| 0°    | 1011.3 | 949.3 | 890.4 | 831.4 | 760.7 | 684.0 | 589.7 | 498.3 | 401.0 | 306.6 | 224.1 |

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|       | 82.5° | 85°  | 87.5° | 90° |
|-------|-------|------|-------|-----|
| 90°   | 0.0   | 0.0  | 0.0   | 0.0 |
| 87.5° | 5.9   | 2.9  | 2.9   | 0.0 |
| 85°   | 8.8   | 5.9  | 2.9   | 0.0 |
| 82.5° | 14.7  | 8.8  | 5.9   | 0.0 |
| 80°   | 20.6  | 14.7 | 5.9   | 0.0 |
| 77.5° | 23.6  | 17.7 | 8.8   | 0.0 |
| 75°   | 29.5  | 20.6 | 8.8   | 0.0 |
| 72.5° | 35.4  | 23.6 | 11.8  | 0.0 |
| 70°   | 38.3  | 26.5 | 11.8  | 0.0 |
| 67.5° | 47.2  | 29.5 | 14.7  | 0.0 |
| 65°   | 53.1  | 32.4 | 14.7  | 0.0 |
| 62.5° | 59.0  | 35.4 | 17.7  | 0.0 |
| 60°   | 64.9  | 38.3 | 17.7  | 0.0 |
| 57.5° | 73.7  | 41.3 | 20.6  | 0.0 |
| 55°   | 79.6  | 47.2 | 20.6  | 0.0 |
| 52.5° | 85.5  | 50.1 | 23.6  | 0.0 |
| 50°   | 91.4  | 53.1 | 23.6  | 0.0 |
| 47.5° | 94.3  | 59.0 | 26.5  | 0.0 |
| 45°   | 100.2 | 61.9 | 26.5  | 0.0 |
| 42.5° | 106.1 | 64.9 | 29.5  | 0.0 |
| 40°   | 112.0 | 67.8 | 29.5  | 0.0 |
| 37.5° | 117.9 | 70.8 | 29.5  | 0.0 |
| 35°   | 120.9 | 73.7 | 32.4  | 0.0 |
| 32.5° | 126.8 | 76.7 | 32.4  | 0.0 |
| 30°   | 129.7 | 79.6 | 32.4  | 0.0 |
| 27.5° | 132.7 | 82.6 | 35.4  | 0.0 |
| 25°   | 135.6 | 82.6 | 35.4  | 0.0 |
| 22.5° | 138.6 | 85.5 | 35.4  | 0.0 |
| 20°   | 141.5 | 88.4 | 35.4  | 0.0 |
| 17.5° | 144.5 | 88.4 | 35.4  | 0.0 |
| 15°   | 147.4 | 91.4 | 38.3  | 0.0 |
| 12.5° | 150.4 | 91.4 | 38.3  | 0.0 |
| 10°   | 150.4 | 94.3 | 38.3  | 0.0 |
| 7.5°  | 153.3 | 94.3 | 38.3  | 0.0 |
| 5°    | 153.3 | 94.3 | 38.3  | 0.0 |
| 2.5°  | 153.3 | 94.3 | 38.3  | 0.0 |
| 0°    | 153.3 | 94.3 | 38.3  | 0.0 |

(END OF REPORT)