

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: P623192

Luminaire Tested: **IFLD-L-SA8B-827-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623192  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-827-U-33  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

|                   |                                    |                      |                  |
|-------------------|------------------------------------|----------------------|------------------|
| Lumens per Lamp:  | N/A                                | NEMA Type:           | 3H x 3V          |
| Luminaire Lumens: | 31129.8 lumens                     | Max Intensity:       | 289667.2 candela |
| Efficiency:       | N/A                                | Max Intensity Angle: | 0°H x 0°V        |
| Efficacy:         | 97.3 lumens/watt                   |                      |                  |
| Luminous Opening: | Rectangular (W 2' x L: 1' x H: 0') |                      |                  |

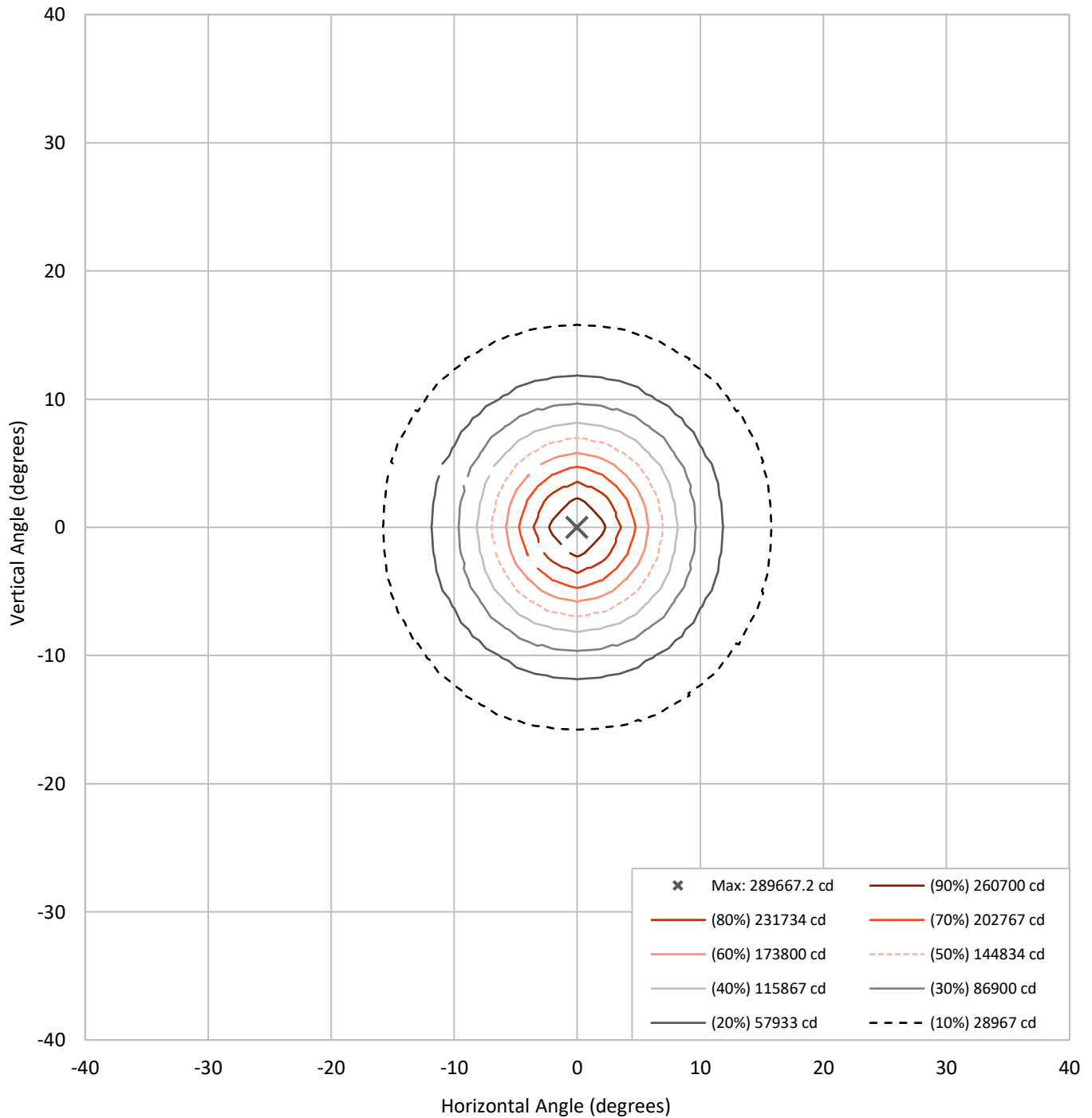
|                   |                 |                    |                 |
|-------------------|-----------------|--------------------|-----------------|
| Beam Angle (50%): | 13.8°H x 13.8°V | Field Angle (10%): | 31.4°H x 31.4°V |
| Beam Lumens:      | 6807.2 lumens   | Field Lumens:      | 15850 lumens    |
| Beam Efficiency:  | 21.9%           | Field Efficiency:  | 50.9%           |

Input Watts (W): 320  
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





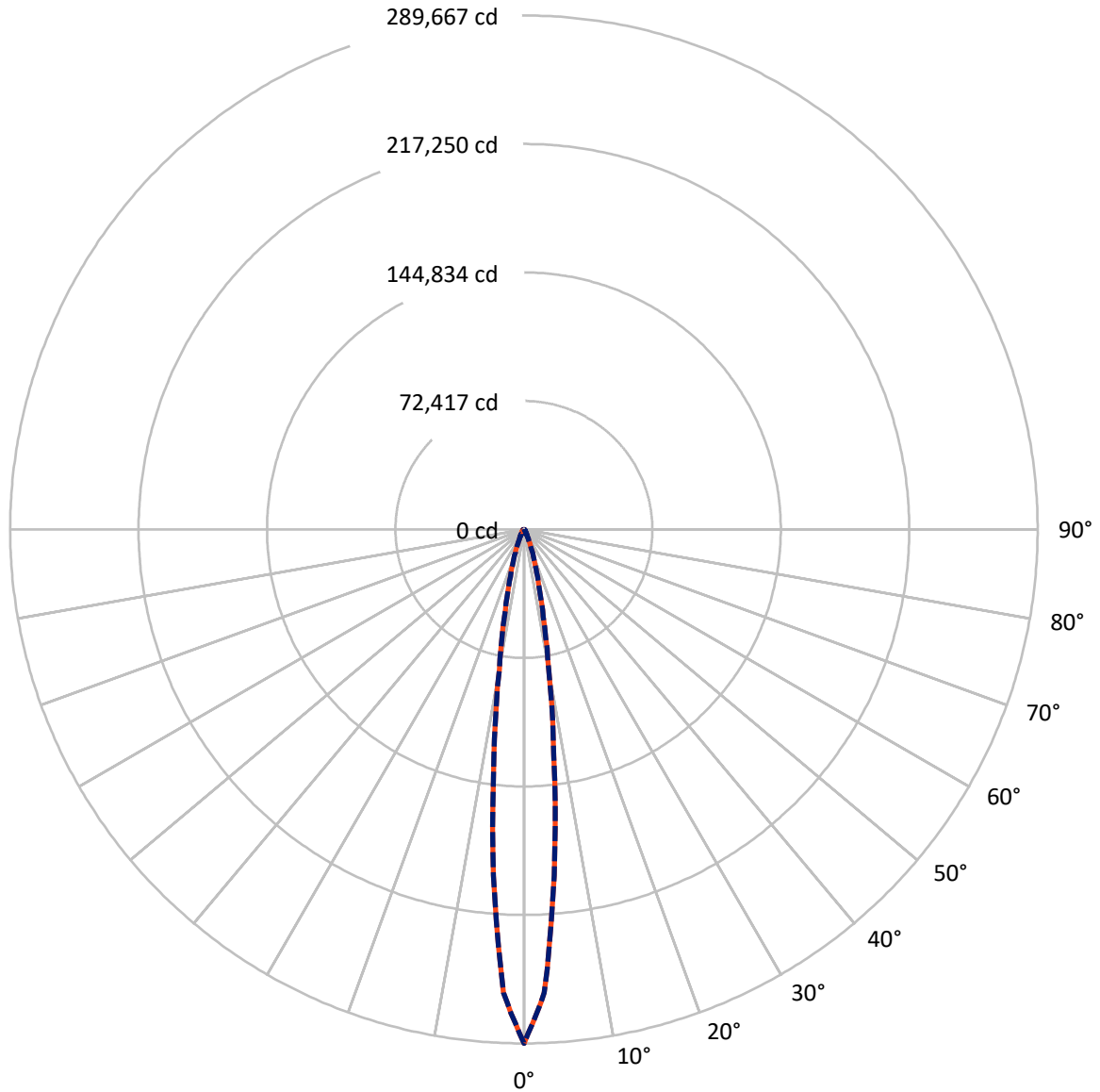
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### Lumen Table

|     |     |     |      |      |      |       |       |        |        |       |       |      |      |      |     |     |
|-----|-----|-----|------|------|------|-------|-------|--------|--------|-------|-------|------|------|------|-----|-----|
| 90  | 0.5 | 4.0 |      | 10.7 |      | 17.4  |       | 20.2   |        | 17.4  |       | 10.7 |      | 4.0  |     | 0.5 |
| 80  | 0.5 | 4.0 |      | 10.7 |      | 17.4  |       | 20.2   |        | 17.4  |       | 10.7 |      | 4.0  |     | 0.5 |
| 70  | 1.8 | 2.0 | 4.3  | 7.2  | 10.2 | 12.8  | 14.8  | 15.9   | 15.9   | 14.8  | 12.8  | 10.2 | 7.2  | 4.3  | 2.0 | 1.8 |
| 60  |     | 3.2 | 6.7  | 10.8 | 14.9 | 18.5  | 21.3  | 22.8   | 22.8   | 21.3  | 18.5  | 14.9 | 10.8 | 6.7  | 3.2 |     |
| 50  | 3.3 | 4.3 | 8.8  | 13.8 | 19.1 | 24.6  | 29.7  | 32.9   | 32.9   | 29.7  | 24.6  | 19.1 | 13.8 | 8.8  | 4.3 | 3.3 |
| 40  |     | 5.3 | 10.5 | 16.5 | 24.2 | 34.7  | 47.4  | 58.3   | 58.3   | 47.4  | 34.7  | 24.2 | 16.5 | 10.5 | 5.3 |     |
| 30  | 4.5 | 6.1 | 11.8 | 19.2 | 31.4 | 55.4  | 113.2 | 193.7  | 193.7  | 113.2 | 55.4  | 31.4 | 19.2 | 11.8 | 6.1 | 4.5 |
| 20  |     | 6.6 | 12.7 | 21.8 | 40.4 | 106.7 | 383.8 | 953.1  | 953.1  | 383.8 | 106.7 | 40.4 | 21.8 | 12.7 | 6.6 |     |
| 10  | 4.9 | 6.8 | 13.2 | 23.5 | 48.2 | 177.8 | 928.7 | 4077.8 | 4077.8 | 928.7 | 177.8 | 48.2 | 23.5 | 13.2 | 6.8 | 4.9 |
| 0   |     | 6.8 | 13.2 | 23.5 | 48.2 | 177.8 | 928.7 | 4077.8 | 4077.8 | 928.7 | 177.8 | 48.2 | 23.5 | 13.2 | 6.8 |     |
| -10 | 4.5 | 6.6 | 12.7 | 21.8 | 40.4 | 106.7 | 383.8 | 953.1  | 953.1  | 383.8 | 106.7 | 40.4 | 21.8 | 12.7 | 6.6 | 4.5 |
| -20 |     | 6.1 | 11.8 | 19.2 | 31.4 | 55.4  | 113.2 | 193.7  | 193.7  | 113.2 | 55.4  | 31.4 | 19.2 | 11.8 | 6.1 |     |
| -30 | 3.3 | 5.3 | 10.5 | 16.5 | 24.2 | 34.7  | 47.4  | 58.3   | 58.3   | 47.4  | 34.7  | 24.2 | 16.5 | 10.5 | 5.3 | 3.3 |
| -40 |     | 4.3 | 8.8  | 13.8 | 19.1 | 24.6  | 29.7  | 32.9   | 32.9   | 29.7  | 24.6  | 19.1 | 13.8 | 8.8  | 4.3 |     |
| -50 | 1.8 | 3.2 | 6.7  | 10.8 | 14.9 | 18.5  | 21.3  | 22.8   | 22.8   | 21.3  | 18.5  | 14.9 | 10.8 | 6.7  | 3.2 | 1.8 |
| -60 |     | 2.0 | 4.3  | 7.2  | 10.2 | 12.8  | 14.8  | 15.9   | 15.9   | 14.8  | 12.8  | 10.2 | 7.2  | 4.3  | 2.0 |     |
| -70 | 0.5 | 4.0 |      | 10.7 |      | 17.4  |       | 20.2   |        | 17.4  |       | 10.7 |      | 4.0  |     | 0.5 |
| -80 | 0.5 | 4.0 |      | 10.7 |      | 17.4  |       | 20.2   |        | 17.4  |       | 10.7 |      | 4.0  |     | 0.5 |
| -90 | 0.5 | 4.0 |      | 10.7 |      | 17.4  |       | 20.2   |        | 17.4  |       | 10.7 |      | 4.0  |     | 0.5 |

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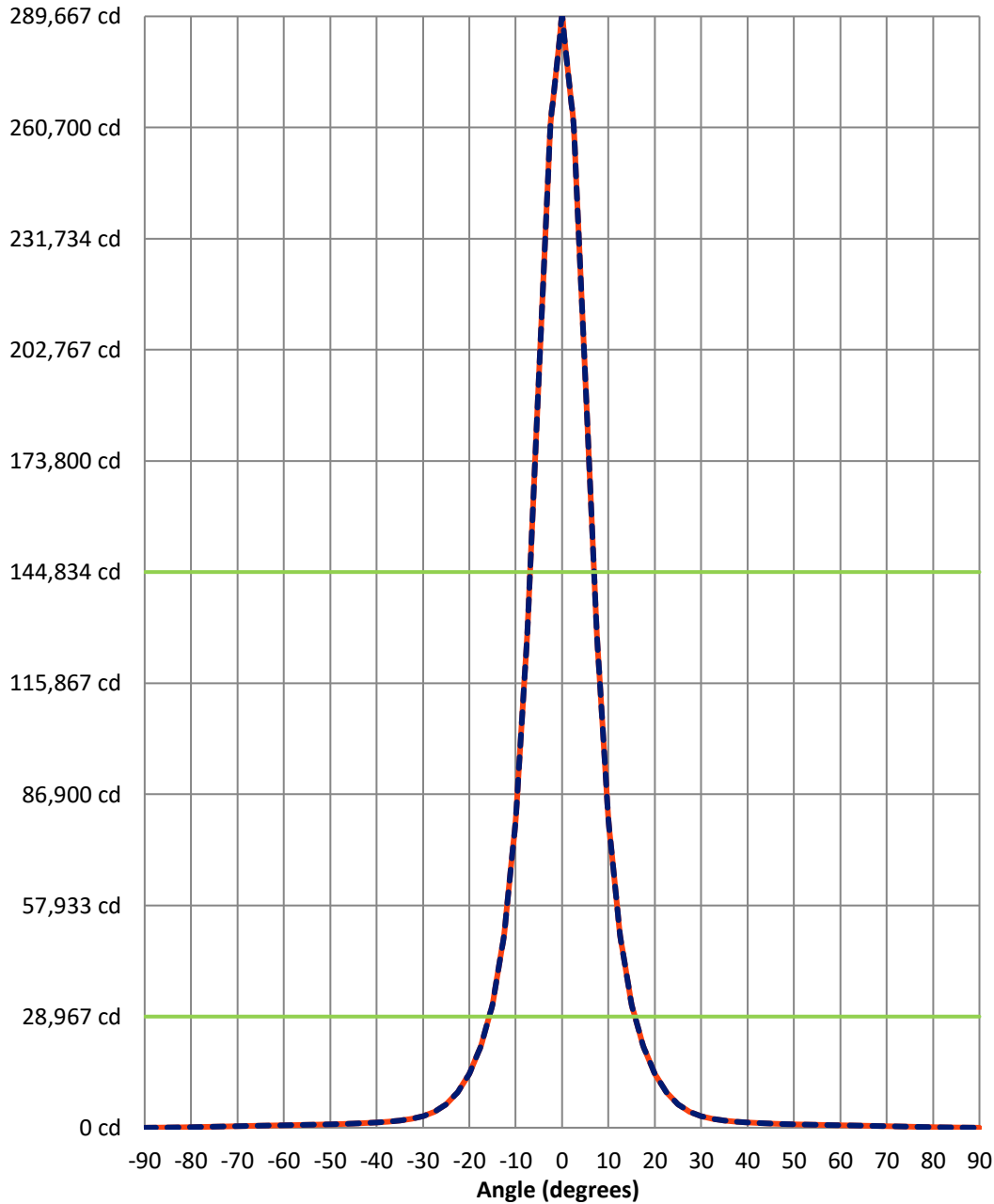
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 13.8°  
 V Angle: 13.8°  
 Lumens: 6807.2  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 15850  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 15279.7  
 Efficiency: 49.1%

— 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° | 25.9     | 25.9     | 25.9     | 25.9     | 25.9    | 25.9    | 25.9    | 25.9    | 25.9    | 22.7   | 22.7   |
| 85°   | 58.3     | 58.3     | 58.3     | 58.3     | 58.3    | 58.3    | 55.1    | 55.1    | 55.1    | 51.8   | 51.8   |
| 82.5° | 97.2     | 97.2     | 97.2     | 97.2     | 93.9    | 93.9    | 93.9    | 90.7    | 90.7    | 87.4   | 87.4   |
| 80°   | 149.0    | 149.0    | 149.0    | 149.0    | 145.7   | 142.5   | 142.5   | 139.3   | 136.0   | 132.8  | 129.5  |
| 77.5° | 204.0    | 204.0    | 204.0    | 200.8    | 200.8   | 197.6   | 194.3   | 191.1   | 187.8   | 181.4  | 178.1  |
| 75°   | 268.8    | 268.8    | 268.8    | 265.6    | 262.3   | 259.1   | 255.8   | 249.4   | 246.1   | 239.7  | 233.2  |
| 72.5° | 336.8    | 336.8    | 336.8    | 333.6    | 330.3   | 323.9   | 320.6   | 314.1   | 307.7   | 297.9  | 291.5  |
| 70°   | 401.6    | 401.6    | 401.6    | 398.3    | 391.9   | 388.6   | 382.1   | 375.7   | 369.2   | 359.5  | 349.8  |
| 67.5° | 466.3    | 466.3    | 466.3    | 459.9    | 456.6   | 453.4   | 446.9   | 437.2   | 430.7   | 421.0  | 408.1  |
| 65°   | 527.9    | 527.9    | 524.6    | 521.4    | 518.2   | 511.7   | 505.2   | 498.7   | 489.0   | 479.3  | 466.3  |
| 62.5° | 589.4    | 589.4    | 586.2    | 582.9    | 579.7   | 573.2   | 563.5   | 557.0   | 544.1   | 534.4  | 521.4  |
| 60°   | 641.2    | 641.2    | 638.0    | 634.8    | 631.5   | 625.0   | 618.6   | 608.8   | 599.1   | 589.4  | 576.5  |
| 57.5° | 696.3    | 696.3    | 693.0    | 689.8    | 683.3   | 676.9   | 670.4   | 660.7   | 647.7   | 634.8  | 625.0  |
| 55°   | 757.8    | 757.8    | 754.6    | 748.1    | 741.6   | 735.1   | 725.4   | 712.5   | 699.5   | 686.6  | 670.4  |
| 52.5° | 816.1    | 816.1    | 812.9    | 806.4    | 799.9   | 793.4   | 780.5   | 770.8   | 754.6   | 738.4  | 719.0  |
| 50°   | 887.4    | 887.4    | 880.9    | 874.4    | 867.9   | 855.0   | 842.0   | 825.8   | 809.6   | 790.2  | 774.0  |
| 47.5° | 968.3    | 968.3    | 961.8    | 955.4    | 942.4   | 929.5   | 910.0   | 890.6   | 871.2   | 848.5  | 822.6  |
| 45°   | 1081.7   | 1081.7   | 1072.0   | 1059.0   | 1042.8  | 1020.1  | 994.2   | 968.3   | 939.2   | 913.3  | 884.1  |
| 42.5° | 1220.9   | 1220.9   | 1208.0   | 1191.8   | 1169.1  | 1140.0  | 1104.3  | 1068.7  | 1029.9  | 987.8  | 948.9  |
| 40°   | 1366.7   | 1366.7   | 1350.5   | 1334.3   | 1308.4  | 1272.7  | 1233.9  | 1188.5  | 1140.0  | 1084.9 | 1036.3 |
| 37.5° | 1567.4   | 1567.4   | 1544.8   | 1515.6   | 1476.8  | 1428.2  | 1369.9  | 1318.1  | 1263.0  | 1201.5 | 1136.7 |
| 35°   | 1865.4   | 1865.4   | 1829.8   | 1781.2   | 1719.7  | 1638.7  | 1551.3  | 1476.8  | 1392.6  | 1318.1 | 1246.8 |
| 32.5° | 2305.8   | 2305.8   | 2244.3   | 2173.1   | 2069.4  | 1939.9  | 1813.6  | 1693.8  | 1567.4  | 1460.6 | 1356.9 |
| 30°   | 2998.9   | 2998.9   | 2895.2   | 2765.7   | 2590.8  | 2367.4  | 2179.5  | 1985.2  | 1800.6  | 1645.2 | 1502.7 |
| 27.5° | 4151.8   | 4103.2   | 3960.7   | 3724.3   | 3400.5  | 2998.9  | 2710.7  | 2383.6  | 2124.5  | 1871.9 | 1687.3 |
| 25°   | 6094.9   | 6004.2   | 5735.4   | 5291.8   | 4692.6  | 4028.7  | 3504.1  | 2947.1  | 2552.0  | 2192.5 | 1904.3 |
| 22.5° | 9252.5   | 9087.3   | 8595.1   | 7791.9   | 6707.0  | 5644.8  | 4676.4  | 3818.2  | 3112.2  | 2610.3 | 2192.5 |
| 20°   | 14058.5  | 13770.2  | 12921.7  | 11548.6  | 9696.2  | 8054.2  | 6328.1  | 5055.3  | 3925.1  | 3112.2 | 2552.0 |
| 17.5° | 21280.4  | 20781.7  | 19321.1  | 16966.7  | 14058.5 | 11383.4 | 8753.8  | 6658.4  | 5055.3  | 3818.2 | 2947.1 |
| 15°   | 32084.1  | 31209.7  | 28657.8  | 24599.9  | 19939.6 | 15697.2 | 11963.1 | 8753.8  | 6328.1  | 4676.4 | 3504.1 |
| 12.5° | 50223.1  | 48454.9  | 43344.5  | 35374.5  | 27945.3 | 20972.7 | 15697.2 | 11383.4 | 8054.2  | 5644.8 | 4028.7 |
| 10°   | 80192.5  | 76539.5  | 66179.4  | 50498.4  | 38570.9 | 27945.3 | 19939.6 | 14058.5 | 9696.2  | 6707.0 | 4692.6 |
| 7.5°  | 128770.5 | 120930.0 | 99507.1  | 73103.4  | 50498.4 | 35374.5 | 24599.9 | 16966.7 | 11548.6 | 7791.9 | 5291.8 |
| 5°    | 195772.5 | 179994.3 | 140387.1 | 99507.1  | 66179.4 | 43344.5 | 28657.8 | 19321.1 | 12921.7 | 8595.1 | 5735.4 |
| 2.5°  | 261462.8 | 234268.9 | 179994.3 | 120930.0 | 76539.5 | 48454.9 | 31209.7 | 20781.7 | 13770.2 | 9087.3 | 6004.2 |
| 0°    | 289667.2 | 261462.8 | 195772.5 | 128770.5 | 80192.5 | 50223.1 | 32084.1 | 21280.4 | 14058.5 | 9252.5 | 6094.9 |



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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° | 22.7   | 22.7   | 22.7   | 22.7   | 19.4   | 19.4   | 19.4   | 19.4   | 16.2  | 16.2  | 16.2  |
| 85°   | 51.8   | 48.6   | 48.6   | 45.3   | 45.3   | 42.1   | 42.1   | 38.9   | 38.9  | 35.6  | 32.4  |
| 82.5° | 84.2   | 81.0   | 77.7   | 74.5   | 74.5   | 71.2   | 68.0   | 61.5   | 58.3  | 55.1  | 51.8  |
| 80°   | 126.3  | 119.8  | 116.6  | 110.1  | 106.9  | 100.4  | 93.9   | 90.7   | 84.2  | 81.0  | 74.5  |
| 77.5° | 171.6  | 165.2  | 161.9  | 152.2  | 145.7  | 139.3  | 132.8  | 123.1  | 116.6 | 106.9 | 97.2  |
| 75°   | 223.5  | 217.0  | 207.3  | 197.6  | 191.1  | 181.4  | 171.6  | 161.9  | 149.0 | 139.3 | 129.5 |
| 72.5° | 281.8  | 272.0  | 262.3  | 249.4  | 236.4  | 226.7  | 210.5  | 197.6  | 187.8 | 174.9 | 161.9 |
| 70°   | 340.0  | 330.3  | 317.4  | 304.4  | 288.2  | 275.3  | 259.1  | 242.9  | 226.7 | 210.5 | 194.3 |
| 67.5° | 398.3  | 385.4  | 372.4  | 356.2  | 340.0  | 323.9  | 307.7  | 288.2  | 268.8 | 249.4 | 229.9 |
| 65°   | 453.4  | 440.4  | 424.2  | 408.1  | 391.9  | 372.4  | 353.0  | 333.6  | 310.9 | 288.2 | 268.8 |
| 62.5° | 508.4  | 492.3  | 476.1  | 459.9  | 440.4  | 421.0  | 401.6  | 375.7  | 353.0 | 330.3 | 304.4 |
| 60°   | 560.3  | 544.1  | 527.9  | 508.4  | 489.0  | 466.3  | 443.7  | 421.0  | 395.1 | 369.2 | 343.3 |
| 57.5° | 608.8  | 592.7  | 576.5  | 553.8  | 534.4  | 511.7  | 485.8  | 463.1  | 434.0 | 408.1 | 378.9 |
| 55°   | 654.2  | 638.0  | 618.6  | 599.1  | 579.7  | 553.8  | 527.9  | 502.0  | 472.8 | 443.7 | 411.3 |
| 52.5° | 699.5  | 680.1  | 660.7  | 641.2  | 618.6  | 595.9  | 570.0  | 540.8  | 511.7 | 479.3 | 446.9 |
| 50°   | 751.3  | 728.7  | 702.8  | 680.1  | 654.2  | 631.5  | 605.6  | 576.5  | 547.3 | 511.7 | 479.3 |
| 47.5° | 799.9  | 777.2  | 751.3  | 722.2  | 696.3  | 667.1  | 638.0  | 612.1  | 579.7 | 547.3 | 511.7 |
| 45°   | 855.0  | 822.6  | 796.7  | 767.5  | 735.1  | 702.8  | 673.6  | 641.2  | 612.1 | 576.5 | 540.8 |
| 42.5° | 913.3  | 877.6  | 842.0  | 806.4  | 777.2  | 741.6  | 706.0  | 673.6  | 638.0 | 605.6 | 570.0 |
| 40°   | 981.3  | 939.2  | 893.8  | 855.0  | 816.1  | 780.5  | 741.6  | 702.8  | 667.1 | 631.5 | 595.9 |
| 37.5° | 1068.7 | 1010.4 | 952.1  | 903.6  | 858.2  | 816.1  | 777.2  | 735.1  | 696.3 | 654.2 | 618.6 |
| 35°   | 1172.3 | 1091.4 | 1023.4 | 955.4  | 903.6  | 855.0  | 806.4  | 767.5  | 722.2 | 680.1 | 641.2 |
| 32.5° | 1276.0 | 1188.5 | 1101.1 | 1023.4 | 952.1  | 893.8  | 842.0  | 796.7  | 751.3 | 702.8 | 660.7 |
| 30°   | 1382.9 | 1285.7 | 1188.5 | 1091.4 | 1010.4 | 939.2  | 877.6  | 822.6  | 777.2 | 728.7 | 680.1 |
| 27.5° | 1518.9 | 1382.9 | 1276.0 | 1172.3 | 1068.7 | 981.3  | 913.3  | 855.0  | 799.9 | 751.3 | 699.5 |
| 25°   | 1687.3 | 1502.7 | 1356.9 | 1246.8 | 1136.7 | 1036.3 | 948.9  | 884.1  | 822.6 | 774.0 | 719.0 |
| 22.5° | 1871.9 | 1645.2 | 1460.6 | 1318.1 | 1201.5 | 1084.9 | 987.8  | 913.3  | 848.5 | 790.2 | 738.4 |
| 20°   | 2124.5 | 1800.6 | 1567.4 | 1392.6 | 1263.0 | 1140.0 | 1029.9 | 939.2  | 871.2 | 809.6 | 754.6 |
| 17.5° | 2383.6 | 1985.2 | 1693.8 | 1476.8 | 1318.1 | 1188.5 | 1068.7 | 968.3  | 890.6 | 825.8 | 770.8 |
| 15°   | 2710.7 | 2179.5 | 1813.6 | 1551.3 | 1369.9 | 1233.9 | 1104.3 | 994.2  | 910.0 | 842.0 | 780.5 |
| 12.5° | 2998.9 | 2367.4 | 1939.9 | 1638.7 | 1428.2 | 1272.7 | 1140.0 | 1020.1 | 929.5 | 855.0 | 793.4 |
| 10°   | 3400.5 | 2590.8 | 2069.4 | 1719.7 | 1476.8 | 1308.4 | 1169.1 | 1042.8 | 942.4 | 867.9 | 799.9 |
| 7.5°  | 3724.3 | 2765.7 | 2173.1 | 1781.2 | 1515.6 | 1334.3 | 1191.8 | 1059.0 | 955.4 | 874.4 | 806.4 |
| 5°    | 3960.7 | 2895.2 | 2244.3 | 1829.8 | 1544.8 | 1350.5 | 1208.0 | 1072.0 | 961.8 | 880.9 | 812.9 |
| 2.5°  | 4103.2 | 2998.9 | 2305.8 | 1865.4 | 1567.4 | 1366.7 | 1220.9 | 1081.7 | 968.3 | 887.4 | 816.1 |
| 0°    | 4151.8 | 2998.9 | 2305.8 | 1865.4 | 1567.4 | 1366.7 | 1220.9 | 1081.7 | 968.3 | 887.4 | 816.1 |





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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° | 16.2  | 13.0  | 13.0  | 13.0  | 9.7   | 9.7   | 9.7   | 6.5   | 6.5   | 6.5   | 3.2   |
| 85°   | 29.1  | 29.1  | 25.9  | 22.7  | 22.7  | 19.4  | 16.2  | 16.2  | 13.0  | 9.7   | 9.7   |
| 82.5° | 48.6  | 45.3  | 42.1  | 38.9  | 35.6  | 29.1  | 25.9  | 22.7  | 19.4  | 16.2  | 13.0  |
| 80°   | 68.0  | 64.8  | 58.3  | 51.8  | 48.6  | 42.1  | 38.9  | 32.4  | 25.9  | 22.7  | 19.4  |
| 77.5° | 90.7  | 84.2  | 77.7  | 71.2  | 61.5  | 55.1  | 48.6  | 42.1  | 35.6  | 29.1  | 22.7  |
| 75°   | 119.8 | 106.9 | 97.2  | 87.4  | 77.7  | 68.0  | 58.3  | 51.8  | 42.1  | 35.6  | 25.9  |
| 72.5° | 149.0 | 136.0 | 119.8 | 106.9 | 93.9  | 84.2  | 71.2  | 61.5  | 51.8  | 42.1  | 32.4  |
| 70°   | 178.1 | 161.9 | 145.7 | 129.5 | 113.3 | 97.2  | 84.2  | 71.2  | 58.3  | 48.6  | 38.9  |
| 67.5° | 207.3 | 191.1 | 171.6 | 152.2 | 136.0 | 116.6 | 97.2  | 84.2  | 68.0  | 55.1  | 42.1  |
| 65°   | 242.9 | 220.2 | 197.6 | 178.1 | 155.4 | 136.0 | 113.3 | 93.9  | 77.7  | 61.5  | 48.6  |
| 62.5° | 278.5 | 252.6 | 226.7 | 200.8 | 178.1 | 152.2 | 129.5 | 106.9 | 87.4  | 71.2  | 51.8  |
| 60°   | 314.1 | 285.0 | 255.8 | 226.7 | 197.6 | 171.6 | 145.7 | 119.8 | 97.2  | 77.7  | 58.3  |
| 57.5° | 349.8 | 317.4 | 285.0 | 252.6 | 220.2 | 191.1 | 161.9 | 136.0 | 106.9 | 84.2  | 64.8  |
| 55°   | 382.1 | 349.8 | 314.1 | 278.5 | 242.9 | 207.3 | 178.1 | 149.0 | 119.8 | 90.7  | 68.0  |
| 52.5° | 411.3 | 378.9 | 343.3 | 304.4 | 268.8 | 229.9 | 194.3 | 161.9 | 129.5 | 97.2  | 74.5  |
| 50°   | 443.7 | 408.1 | 369.2 | 330.3 | 288.2 | 249.4 | 210.5 | 174.9 | 139.3 | 106.9 | 81.0  |
| 47.5° | 472.8 | 434.0 | 395.1 | 353.0 | 310.9 | 268.8 | 226.7 | 187.8 | 149.0 | 116.6 | 84.2  |
| 45°   | 502.0 | 463.1 | 421.0 | 375.7 | 333.6 | 288.2 | 242.9 | 197.6 | 161.9 | 123.1 | 90.7  |
| 42.5° | 527.9 | 485.8 | 443.7 | 401.6 | 353.0 | 307.7 | 259.1 | 210.5 | 171.6 | 132.8 | 93.9  |
| 40°   | 553.8 | 511.7 | 466.3 | 421.0 | 372.4 | 323.9 | 275.3 | 226.7 | 181.4 | 139.3 | 100.4 |
| 37.5° | 579.7 | 534.4 | 489.0 | 440.4 | 391.9 | 340.0 | 288.2 | 236.4 | 191.1 | 145.7 | 106.9 |
| 35°   | 599.1 | 553.8 | 508.4 | 459.9 | 408.1 | 356.2 | 304.4 | 249.4 | 197.6 | 152.2 | 110.1 |
| 32.5° | 618.6 | 576.5 | 527.9 | 476.1 | 424.2 | 372.4 | 317.4 | 262.3 | 207.3 | 161.9 | 116.6 |
| 30°   | 638.0 | 592.7 | 544.1 | 492.3 | 440.4 | 385.4 | 330.3 | 272.0 | 217.0 | 165.2 | 119.8 |
| 27.5° | 654.2 | 608.8 | 560.3 | 508.4 | 453.4 | 398.3 | 340.0 | 281.8 | 223.5 | 171.6 | 126.3 |
| 25°   | 670.4 | 625.0 | 576.5 | 521.4 | 466.3 | 408.1 | 349.8 | 291.5 | 233.2 | 178.1 | 129.5 |
| 22.5° | 686.6 | 634.8 | 589.4 | 534.4 | 479.3 | 421.0 | 359.5 | 297.9 | 239.7 | 181.4 | 132.8 |
| 20°   | 699.5 | 647.7 | 599.1 | 544.1 | 489.0 | 430.7 | 369.2 | 307.7 | 246.1 | 187.8 | 136.0 |
| 17.5° | 712.5 | 660.7 | 608.8 | 557.0 | 498.7 | 437.2 | 375.7 | 314.1 | 249.4 | 191.1 | 139.3 |
| 15°   | 725.4 | 670.4 | 618.6 | 563.5 | 505.2 | 446.9 | 382.1 | 320.6 | 255.8 | 194.3 | 142.5 |
| 12.5° | 735.1 | 676.9 | 625.0 | 573.2 | 511.7 | 453.4 | 388.6 | 323.9 | 259.1 | 197.6 | 142.5 |
| 10°   | 741.6 | 683.3 | 631.5 | 579.7 | 518.2 | 456.6 | 391.9 | 330.3 | 262.3 | 200.8 | 145.7 |
| 7.5°  | 748.1 | 689.8 | 634.8 | 582.9 | 521.4 | 459.9 | 398.3 | 333.6 | 265.6 | 200.8 | 149.0 |
| 5°    | 754.6 | 693.0 | 638.0 | 586.2 | 524.6 | 466.3 | 401.6 | 336.8 | 268.8 | 204.0 | 149.0 |
| 2.5°  | 757.8 | 696.3 | 641.2 | 589.4 | 527.9 | 466.3 | 401.6 | 336.8 | 268.8 | 204.0 | 149.0 |
| 0°    | 757.8 | 696.3 | 641.2 | 589.4 | 527.9 | 466.3 | 401.6 | 336.8 | 268.8 | 204.0 | 149.0 |



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|       | 82.5° | 85°  | 87.5° | 90° |
|-------|-------|------|-------|-----|
| 90°   | 0.0   | 0.0  | 0.0   | 0.0 |
| 87.5° | 3.2   | 3.2  | 0.0   | 0.0 |
| 85°   | 6.5   | 3.2  | 3.2   | 0.0 |
| 82.5° | 9.7   | 6.5  | 3.2   | 0.0 |
| 80°   | 13.0  | 9.7  | 3.2   | 0.0 |
| 77.5° | 16.2  | 9.7  | 6.5   | 0.0 |
| 75°   | 19.4  | 13.0 | 6.5   | 0.0 |
| 72.5° | 22.7  | 16.2 | 6.5   | 0.0 |
| 70°   | 25.9  | 16.2 | 9.7   | 0.0 |
| 67.5° | 29.1  | 19.4 | 9.7   | 0.0 |
| 65°   | 35.6  | 22.7 | 9.7   | 0.0 |
| 62.5° | 38.9  | 22.7 | 13.0  | 0.0 |
| 60°   | 42.1  | 25.9 | 13.0  | 0.0 |
| 57.5° | 45.3  | 29.1 | 13.0  | 0.0 |
| 55°   | 48.6  | 29.1 | 16.2  | 0.0 |
| 52.5° | 51.8  | 32.4 | 16.2  | 0.0 |
| 50°   | 55.1  | 35.6 | 16.2  | 0.0 |
| 47.5° | 58.3  | 38.9 | 16.2  | 0.0 |
| 45°   | 61.5  | 38.9 | 19.4  | 0.0 |
| 42.5° | 68.0  | 42.1 | 19.4  | 0.0 |
| 40°   | 71.2  | 42.1 | 19.4  | 0.0 |
| 37.5° | 74.5  | 45.3 | 19.4  | 0.0 |
| 35°   | 74.5  | 45.3 | 22.7  | 0.0 |
| 32.5° | 77.7  | 48.6 | 22.7  | 0.0 |
| 30°   | 81.0  | 48.6 | 22.7  | 0.0 |
| 27.5° | 84.2  | 51.8 | 22.7  | 0.0 |
| 25°   | 87.4  | 51.8 | 22.7  | 0.0 |
| 22.5° | 87.4  | 51.8 | 22.7  | 0.0 |
| 20°   | 90.7  | 55.1 | 25.9  | 0.0 |
| 17.5° | 90.7  | 55.1 | 25.9  | 0.0 |
| 15°   | 93.9  | 55.1 | 25.9  | 0.0 |
| 12.5° | 93.9  | 58.3 | 25.9  | 0.0 |
| 10°   | 93.9  | 58.3 | 25.9  | 0.0 |
| 7.5°  | 97.2  | 58.3 | 25.9  | 0.0 |
| 5°    | 97.2  | 58.3 | 25.9  | 0.0 |
| 2.5°  | 97.2  | 58.3 | 25.9  | 0.0 |
| 0°    | 97.2  | 58.3 | 25.9  | 0.0 |

(END OF REPORT)