

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: P598680

Luminaire Tested: **IFLD-S-SA3B-735-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598680  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA3B-735-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (48) 3500K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

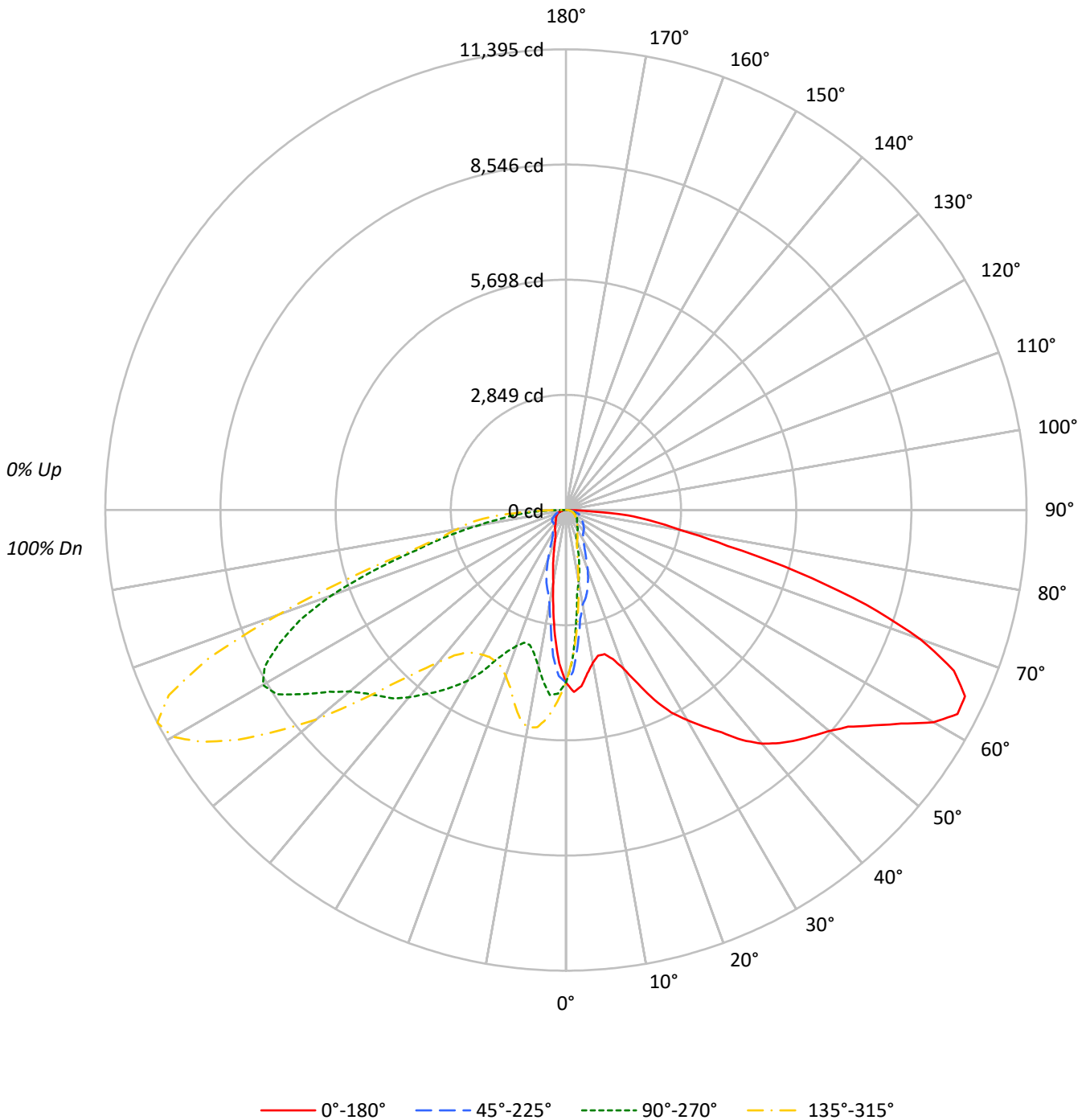
Lumens per Lamp: N/A  
 Luminaire Lumens: 14275.0 lumens  
 Efficiency: N/A  
 Efficacy: 116.6 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 122.4  
 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

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | GONIO 1 IN0055        | 4/22/2021        | 10/22/2021           |
| Power Meter                    | XITRON 2801 IN0197    | 12/1/2020        | 12/1/2021            |
| AC Power Source                | CHROMA 61505 IN0196   | 12/1/2020        | 12/1/2021            |
| DC Power Supply                | AGILENT E3634A IN0198 | 11/30/2020       | 11/30/2021           |
| Room Thermometer               | ONSET IN0143          | 12/1/2020        | 12/1/2021            |

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### Luminous Intensity Polar Plot



TEST NUMBER: P598680  
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |    |     |   |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |    |    | 10 |    |     |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 105 | 99  | 94  | 89  | 102 | 97  | 92  | 87  | 92  | 88  | 84  | 88  | 85  | 82  | 85  | 82  | 79  | 77  |    |    |    |    | 77  |   |  |   |
| 2   | 93  | 83  | 74  | 67  | 90  | 81  | 73  | 66  | 77  | 70  | 64  | 73  | 68  | 63  | 70  | 65  | 61  | 59  |    |    |    |    | 59  |   |  |   |
| 3   | 83  | 70  | 60  | 52  | 80  | 68  | 59  | 51  | 65  | 57  | 50  | 62  | 55  | 49  | 59  | 53  | 48  | 46  |    |    |    |    | 46  |   |  |   |
| 4   | 74  | 60  | 49  | 41  | 72  | 59  | 49  | 41  | 56  | 47  | 40  | 53  | 46  | 40  | 51  | 44  | 39  | 36  |    |    |    |    | 36  |   |  |   |
| 5   | 68  | 52  | 42  | 34  | 65  | 51  | 41  | 34  | 49  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 32  | 30  |    |    |    |    | 30  |   |  |   |
| 6   | 62  | 46  | 36  | 28  | 60  | 45  | 35  | 28  | 43  | 34  | 28  | 41  | 34  | 28  | 40  | 33  | 27  | 25  |    |    |    |    | 25  |   |  |   |
| 7   | 57  | 41  | 31  | 24  | 55  | 40  | 31  | 24  | 39  | 30  | 24  | 37  | 29  | 24  | 36  | 29  | 23  | 21  |    |    |    |    | 21  |   |  |   |
| 8   | 53  | 37  | 28  | 21  | 51  | 36  | 27  | 21  | 35  | 27  | 21  | 34  | 26  | 21  | 32  | 26  | 20  | 18  |    |    |    |    | 18  |   |  |   |
| 9   | 49  | 34  | 25  | 19  | 47  | 33  | 24  | 18  | 32  | 24  | 18  | 31  | 23  | 18  | 30  | 23  | 18  | 16  |    |    |    |    | 16  |   |  |   |
| 10  | 46  | 31  | 22  | 17  | 44  | 31  | 22  | 17  | 29  | 22  | 16  | 28  | 21  | 16  | 28  | 21  | 16  | 14  |    |    |    |    | 14  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°   | 180°  | 270°   |
|-----|--------|-------|-------|--------|
| 0°  | 61199  | 61199 | 61199 | 61199  |
| 5°  | 62982  | 40955 | 44741 | 66166  |
| 10° | 55877  | 26024 | 26284 | 57183  |
| 15° | 54840  | 18457 | 17481 | 51290  |
| 20° | 63758  | 11676 | 11766 | 54637  |
| 25° | 81997  | 10025 | 9740  | 64595  |
| 30° | 99370  | 9501  | 8908  | 80862  |
| 35° | 117613 | 8371  | 8058  | 95847  |
| 40° | 141319 | 7944  | 7385  | 113235 |
| 45° | 163522 | 7879  | 7153  | 132005 |
| 50° | 189885 | 8000  | 7201  | 155882 |
| 55° | 232374 | 8220  | 7321  | 198603 |
| 60° | 301370 | 8229  | 7716  | 248400 |
| 65° | 369937 | 8317  | 7909  | 265892 |
| 70° | 391452 | 8770  | 8271  | 258881 |
| 75° | 329515 | 9271  | 8279  | 211287 |
| 80° | 239402 | 10860 | 8389  | 182630 |
| 85° | 253739 | 15742 | 6883  | 189814 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 330.0   | 2.3       |
| 10°-20°   | 690.7   | 4.8       |
| 20°-30°   | 995.3   | 7.0       |
| 30°-40°   | 1432.9  | 10.0      |
| 40°-50°   | 2035.3  | 14.3      |
| 50°-60°   | 2926.2  | 20.5      |
| 60°-70°   | 3380.7  | 23.7      |
| 70°-80°   | 1914.2  | 13.4      |
| 80°-90°   | 569.7   | 4.0       |
| 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°-30°    | 2016.0  | 14.1      |
| 0°-40°    | 3448.9  | 24.2      |
| 0°-60°    | 8410.4  | 58.9      |
| 0°-90°    | 14275.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 14275.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 90°  | 180° | 270° | 360°  | Flux  |
|-----|-------|------|------|------|-------|-------|
| 0°  | 4264  | 4264 | 4264 | 4264 | 4264  |       |
| 5°  | 4372  | 2843 | 3106 | 4593 | 4372  | 397   |
| 15° | 3691  | 1242 | 1176 | 3452 | 3691  | 1085  |
| 25° | 5178  | 633  | 615  | 4079 | 5178  | 2403  |
| 35° | 6713  | 478  | 460  | 5471 | 6713  | 4260  |
| 45° | 8057  | 388  | 352  | 6504 | 8057  | 6238  |
| 55° | 9287  | 328  | 293  | 7937 | 9287  | 8411  |
| 65° | 10894 | 245  | 233  | 7830 | 10894 | 10446 |
| 75° | 5942  | 167  | 149  | 3810 | 5942  | 6305  |
| 85° | 1541  | 96   | 42   | 1153 | 1541  | 1535  |
| 90° | 0     | 0    | 0    | 0    | 0     |       |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4264.2  | 4264.2  | 4264.2  | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 |
| 2.5°  | 4503.1  | 4497.1  | 4461.3  | 4347.8 | 4228.4 | 4114.9 | 4007.4 | 3893.9 | 3834.2 | 3762.5 | 3732.7 |
| 5°    | 4371.7  | 4359.8  | 4258.2  | 4007.4 | 3786.4 | 3547.5 | 3344.5 | 3183.2 | 3051.8 | 2920.5 | 2872.7 |
| 7.5°  | 4073.1  | 4055.2  | 3935.7  | 3589.3 | 3266.8 | 2956.3 | 2711.4 | 2502.4 | 2329.2 | 2251.6 | 2162.0 |
| 10°   | 3834.2  | 3804.4  | 3649.1  | 3266.8 | 2848.8 | 2538.2 | 2377.0 | 2233.6 | 2084.3 | 1958.9 | 1827.5 |
| 12.5° | 3684.9  | 3649.1  | 3487.8  | 3039.9 | 2633.8 | 2400.9 | 2233.6 | 2072.4 | 1887.2 | 1732.0 | 1588.6 |
| 15°   | 3690.9  | 3649.1  | 3452.0  | 2980.2 | 2580.0 | 2281.4 | 2048.5 | 1827.5 | 1612.5 | 1439.3 | 1278.1 |
| 17.5° | 3864.1  | 3810.3  | 3601.3  | 3063.8 | 2538.2 | 2126.1 | 1815.6 | 1528.9 | 1284.0 | 1098.9 | 967.5  |
| 20°   | 4174.6  | 4138.8  | 3899.9  | 3189.2 | 2496.4 | 1958.9 | 1576.7 | 1230.3 | 973.5  | 830.1  | 776.4  |
| 22.5° | 4640.5  | 4598.7  | 4341.9  | 3380.3 | 2484.5 | 1809.6 | 1319.9 | 967.5  | 782.4  | 722.6  | 692.8  |
| 25°   | 5178.0  | 5100.3  | 4861.4  | 3702.8 | 2508.4 | 1672.2 | 1110.8 | 800.3  | 698.8  | 657.0  | 639.0  |
| 27.5° | 5643.8  | 5596.0  | 5327.3  | 4007.4 | 2520.3 | 1564.7 | 967.5  | 728.6  | 651.0  | 615.1  | 603.2  |
| 30°   | 5996.2  | 5978.3  | 5715.5  | 4341.9 | 2490.4 | 1433.4 | 877.9  | 698.8  | 651.0  | 615.1  | 579.3  |
| 32.5° | 6348.5  | 6354.5  | 6073.8  | 4598.7 | 2448.6 | 1319.9 | 794.3  | 621.1  | 573.3  | 549.5  | 555.4  |
| 35°   | 6712.9  | 6742.7  | 6503.8  | 4849.5 | 2359.1 | 1278.1 | 734.6  | 579.3  | 537.5  | 501.7  | 483.8  |
| 37.5° | 7172.7  | 7250.4  | 7017.4  | 5130.2 | 2269.5 | 1242.2 | 704.7  | 549.5  | 507.6  | 477.8  | 453.9  |
| 40°   | 7543.0  | 7686.3  | 7549.0  | 5393.0 | 2209.7 | 1200.4 | 680.8  | 519.6  | 489.7  | 453.9  | 436.0  |
| 42.5° | 7817.7  | 7985.0  | 7937.2  | 5596.0 | 2209.7 | 1158.6 | 657.0  | 501.7  | 477.8  | 436.0  | 412.1  |
| 45°   | 8056.6  | 8229.8  | 8223.8  | 5805.1 | 2257.5 | 1134.7 | 627.1  | 501.7  | 465.8  | 424.0  | 400.1  |
| 47.5° | 8271.6  | 8444.8  | 8504.5  | 6067.8 | 2335.2 | 1122.8 | 591.3  | 489.7  | 465.8  | 418.1  | 382.2  |
| 50°   | 8504.5  | 8695.7  | 8874.8  | 6485.9 | 2430.7 | 1092.9 | 567.4  | 471.8  | 471.8  | 412.1  | 370.3  |
| 52.5° | 8803.2  | 9018.2  | 9346.6  | 7005.5 | 2526.3 | 1039.2 | 531.5  | 459.9  | 471.8  | 406.1  | 358.3  |
| 55°   | 9286.9  | 9466.1  | 9896.1  | 7626.6 | 2645.7 | 973.5  | 501.7  | 430.0  | 447.9  | 388.2  | 340.4  |
| 57.5° | 9830.4  | 9985.7  | 10344.0 | 8104.4 | 2681.6 | 889.9  | 459.9  | 400.1  | 430.0  | 370.3  | 316.5  |
| 60°   | 10499.3 | 10576.9 | 10576.9 | 8241.8 | 2562.1 | 812.2  | 430.0  | 376.3  | 388.2  | 352.4  | 298.6  |
| 62.5° | 10923.3 | 10923.3 | 10576.9 | 7990.9 | 2335.2 | 746.5  | 406.1  | 352.4  | 340.4  | 328.5  | 280.7  |
| 65°   | 10893.5 | 10845.7 | 10332.1 | 7262.3 | 2072.4 | 704.7  | 382.2  | 322.5  | 304.6  | 298.6  | 262.8  |
| 67.5° | 10391.8 | 10308.2 | 9609.4  | 6235.1 | 1797.7 | 686.8  | 358.3  | 292.6  | 280.7  | 268.8  | 238.9  |
| 70°   | 9328.7  | 9113.7  | 8253.7  | 5016.7 | 1528.9 | 674.9  | 352.4  | 268.8  | 256.8  | 244.9  | 221.0  |
| 72.5° | 7787.9  | 7513.1  | 6444.1  | 3858.1 | 1284.0 | 633.1  | 334.4  | 238.9  | 232.9  | 221.0  | 197.1  |
| 75°   | 5942.4  | 5434.8  | 4497.1  | 2950.3 | 997.4  | 549.5  | 286.7  | 209.0  | 209.0  | 203.1  | 179.2  |
| 77.5° | 4097.0  | 3834.2  | 3135.5  | 2179.9 | 728.6  | 424.0  | 232.9  | 185.1  | 185.1  | 191.1  | 167.2  |
| 80°   | 2896.6  | 2651.7  | 2233.6  | 1564.7 | 459.9  | 286.7  | 179.2  | 155.3  | 173.2  | 185.1  | 155.3  |
| 82.5° | 2215.7  | 2036.6  | 1660.3  | 1140.7 | 268.8  | 197.1  | 137.4  | 125.4  | 149.3  | 161.3  | 131.4  |
| 85°   | 1540.9  | 1325.8  | 842.1   | 764.5  | 155.3  | 119.4  | 101.5  | 101.5  | 131.4  | 161.3  | 119.4  |
| 87.5° | 436.0   | 185.1   | 53.8    | 226.9  | 65.7   | 47.8   | 35.8   | 23.9   | 35.8   | 35.8   | 23.9   |
| 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°    | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 |
| 2.5°  | 3702.8 | 3667.0 | 3667.0 | 3655.0 | 3661.0 | 3667.0 | 3661.0 | 3702.8 | 3720.7 | 3744.6 | 3792.4 |
| 5°    | 2842.8 | 2890.6 | 2854.8 | 2890.6 | 2938.4 | 3010.0 | 3028.0 | 3081.7 | 3087.7 | 3129.5 | 3105.6 |
| 7.5°  | 2108.2 | 2102.2 | 2072.4 | 2114.2 | 2245.6 | 2347.1 | 2394.9 | 2424.8 | 2430.7 | 2430.7 | 2400.9 |
| 10°   | 1785.7 | 1732.0 | 1678.2 | 1648.4 | 1660.3 | 1767.8 | 1803.6 | 1821.5 | 1809.6 | 1827.5 | 1803.6 |
| 12.5° | 1528.9 | 1481.1 | 1403.5 | 1349.7 | 1313.9 | 1343.8 | 1379.6 | 1397.5 | 1409.5 | 1439.3 | 1463.2 |
| 15°   | 1242.2 | 1194.5 | 1146.7 | 1116.8 | 1087.0 | 1063.1 | 1092.9 | 1110.8 | 1140.7 | 1164.6 | 1176.5 |
| 17.5° | 943.6  | 919.7  | 895.8  | 913.8  | 913.8  | 901.8  | 913.8  | 919.7  | 931.7  | 949.6  | 943.6  |
| 20°   | 764.5  | 758.5  | 752.5  | 782.4  | 806.3  | 806.3  | 818.2  | 800.3  | 794.3  | 776.4  | 770.4  |
| 22.5° | 680.8  | 680.8  | 686.8  | 710.7  | 734.6  | 746.5  | 746.5  | 716.7  | 686.8  | 674.9  | 680.8  |
| 25°   | 633.1  | 633.1  | 651.0  | 657.0  | 668.9  | 668.9  | 674.9  | 645.0  | 627.1  | 609.2  | 615.1  |
| 27.5° | 597.2  | 597.2  | 603.2  | 603.2  | 609.2  | 609.2  | 615.1  | 603.2  | 579.3  | 573.3  | 573.3  |
| 30°   | 573.3  | 573.3  | 567.4  | 567.4  | 567.4  | 567.4  | 573.3  | 555.4  | 543.5  | 537.5  | 537.5  |
| 32.5° | 549.5  | 543.5  | 537.5  | 537.5  | 531.5  | 531.5  | 537.5  | 519.6  | 513.6  | 513.6  | 513.6  |
| 35°   | 477.8  | 471.8  | 477.8  | 489.7  | 489.7  | 495.7  | 495.7  | 489.7  | 477.8  | 465.8  | 459.9  |
| 37.5° | 447.9  | 441.9  | 441.9  | 441.9  | 453.9  | 459.9  | 465.8  | 453.9  | 436.0  | 418.1  | 418.1  |
| 40°   | 424.0  | 424.0  | 418.1  | 418.1  | 418.1  | 430.0  | 441.9  | 424.0  | 400.1  | 394.2  | 394.2  |
| 42.5° | 406.1  | 400.1  | 394.2  | 388.2  | 382.2  | 400.1  | 412.1  | 388.2  | 376.3  | 376.3  | 376.3  |
| 45°   | 388.2  | 382.2  | 376.3  | 370.3  | 364.3  | 370.3  | 382.2  | 358.3  | 352.4  | 352.4  | 352.4  |
| 47.5° | 370.3  | 364.3  | 352.4  | 346.4  | 340.4  | 340.4  | 352.4  | 334.4  | 328.5  | 334.4  | 334.4  |
| 50°   | 358.3  | 346.4  | 334.4  | 328.5  | 322.5  | 322.5  | 322.5  | 316.5  | 316.5  | 316.5  | 322.5  |
| 52.5° | 346.4  | 334.4  | 316.5  | 310.6  | 304.6  | 304.6  | 304.6  | 304.6  | 298.6  | 304.6  | 310.6  |
| 55°   | 328.5  | 316.5  | 304.6  | 298.6  | 292.6  | 286.7  | 292.6  | 286.7  | 286.7  | 292.6  | 292.6  |
| 57.5° | 304.6  | 292.6  | 280.7  | 280.7  | 274.7  | 274.7  | 280.7  | 274.7  | 274.7  | 280.7  | 280.7  |
| 60°   | 286.7  | 274.7  | 262.8  | 262.8  | 256.8  | 262.8  | 268.8  | 262.8  | 262.8  | 262.8  | 268.8  |
| 62.5° | 262.8  | 256.8  | 244.9  | 244.9  | 244.9  | 244.9  | 250.8  | 244.9  | 250.8  | 250.8  | 250.8  |
| 65°   | 244.9  | 232.9  | 226.9  | 226.9  | 226.9  | 226.9  | 238.9  | 226.9  | 232.9  | 232.9  | 232.9  |
| 67.5° | 226.9  | 215.0  | 209.0  | 209.0  | 209.0  | 209.0  | 221.0  | 209.0  | 215.0  | 221.0  | 215.0  |
| 70°   | 209.0  | 197.1  | 191.1  | 191.1  | 191.1  | 191.1  | 197.1  | 191.1  | 191.1  | 197.1  | 197.1  |
| 72.5° | 185.1  | 179.2  | 173.2  | 173.2  | 167.2  | 173.2  | 179.2  | 173.2  | 173.2  | 173.2  | 173.2  |
| 75°   | 167.2  | 161.3  | 161.3  | 155.3  | 155.3  | 155.3  | 161.3  | 149.3  | 149.3  | 149.3  | 149.3  |
| 77.5° | 155.3  | 143.3  | 143.3  | 143.3  | 137.4  | 143.3  | 137.4  | 125.4  | 125.4  | 125.4  | 125.4  |
| 80°   | 131.4  | 119.4  | 125.4  | 125.4  | 119.4  | 119.4  | 113.5  | 101.5  | 101.5  | 101.5  | 101.5  |
| 82.5° | 107.5  | 95.6   | 101.5  | 101.5  | 101.5  | 101.5  | 89.6   | 83.6   | 77.6   | 71.7   | 71.7   |
| 85°   | 95.6   | 77.6   | 89.6   | 89.6   | 83.6   | 83.6   | 59.7   | 59.7   | 47.8   | 47.8   | 41.8   |
| 87.5° | 17.9   | 11.9   | 23.9   | 29.9   | 29.9   | 35.8   | 23.9   | 29.9   | 17.9   | 11.9   | 11.9   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 | 4264.2 |
| 2.5°  | 3786.4 | 3852.1 | 3941.7 | 4007.4 | 4108.9 | 4186.6 | 4306.0 | 4407.6 | 4503.1 | 4544.9 | 4586.7 |
| 5°    | 3177.3 | 3219.1 | 3356.4 | 3463.9 | 3625.2 | 3798.4 | 4013.4 | 4246.3 | 4485.2 | 4592.7 | 4718.1 |
| 7.5°  | 2377.0 | 2454.6 | 2532.3 | 2687.5 | 2884.6 | 3165.3 | 3440.0 | 3786.4 | 4120.9 | 4282.1 | 4497.1 |
| 10°   | 1845.4 | 1905.2 | 1994.7 | 2156.0 | 2341.1 | 2574.1 | 2902.5 | 3314.6 | 3714.8 | 3923.8 | 4144.8 |
| 12.5° | 1481.1 | 1564.7 | 1684.2 | 1851.4 | 2066.4 | 2305.3 | 2544.2 | 2926.4 | 3392.3 | 3631.2 | 3882.0 |
| 15°   | 1200.4 | 1266.1 | 1397.5 | 1606.5 | 1857.4 | 2102.2 | 2353.1 | 2669.6 | 3177.3 | 3452.0 | 3750.6 |
| 17.5° | 955.6  | 1003.3 | 1122.8 | 1331.8 | 1582.7 | 1857.4 | 2144.1 | 2544.2 | 3105.6 | 3440.0 | 3792.4 |
| 20°   | 776.4  | 812.2  | 889.9  | 1045.2 | 1284.0 | 1582.7 | 1941.0 | 2424.8 | 3147.4 | 3577.4 | 4007.4 |
| 22.5° | 680.8  | 692.8  | 728.6  | 812.2  | 1009.3 | 1325.8 | 1755.9 | 2323.2 | 3225.0 | 3780.5 | 4359.8 |
| 25°   | 615.1  | 627.1  | 639.0  | 692.8  | 806.3  | 1104.9 | 1594.6 | 2263.5 | 3392.3 | 4079.1 | 4765.9 |
| 27.5° | 573.3  | 585.3  | 591.3  | 615.1  | 692.8  | 943.6  | 1457.2 | 2227.7 | 3619.2 | 4515.1 | 5267.6 |
| 30°   | 537.5  | 537.5  | 555.4  | 591.3  | 645.0  | 830.1  | 1337.8 | 2144.1 | 3858.1 | 4879.4 | 5661.7 |
| 32.5° | 507.6  | 513.6  | 537.5  | 555.4  | 591.3  | 734.6  | 1218.3 | 2036.6 | 4073.1 | 5178.0 | 6049.9 |
| 35°   | 453.9  | 453.9  | 459.9  | 489.7  | 537.5  | 657.0  | 1110.8 | 1929.1 | 4192.5 | 5470.6 | 6396.3 |
| 37.5° | 418.1  | 424.0  | 436.0  | 459.9  | 501.7  | 603.2  | 1021.3 | 1809.6 | 4318.0 | 5745.3 | 6802.4 |
| 40°   | 394.2  | 400.1  | 412.1  | 436.0  | 477.8  | 555.4  | 943.6  | 1714.0 | 4449.4 | 6044.0 | 7238.4 |
| 42.5° | 376.3  | 382.2  | 394.2  | 418.1  | 453.9  | 543.5  | 860.0  | 1636.4 | 4527.0 | 6318.7 | 7650.5 |
| 45°   | 358.3  | 364.3  | 382.2  | 406.1  | 436.0  | 531.5  | 812.2  | 1582.7 | 4556.9 | 6503.8 | 7979.0 |
| 47.5° | 340.4  | 346.4  | 364.3  | 400.1  | 436.0  | 513.6  | 794.3  | 1552.8 | 4580.7 | 6712.9 | 8241.8 |
| 50°   | 322.5  | 334.4  | 358.3  | 394.2  | 441.9  | 489.7  | 782.4  | 1546.8 | 4718.1 | 6981.6 | 8492.6 |
| 52.5° | 310.6  | 328.5  | 352.4  | 394.2  | 436.0  | 453.9  | 776.4  | 1564.7 | 4992.8 | 7381.8 | 8850.9 |
| 55°   | 298.6  | 316.5  | 340.4  | 394.2  | 418.1  | 424.0  | 746.5  | 1594.6 | 5410.9 | 7937.2 | 9358.6 |
| 57.5° | 286.7  | 298.6  | 328.5  | 382.2  | 394.2  | 400.1  | 686.8  | 1636.4 | 5829.0 | 8480.7 | 9878.2 |
| 60°   | 268.8  | 280.7  | 310.6  | 382.2  | 358.3  | 376.3  | 609.2  | 1648.4 | 6127.6 | 8653.9 | 9926.0 |
| 62.5° | 250.8  | 262.8  | 292.6  | 394.2  | 328.5  | 352.4  | 543.5  | 1606.5 | 6187.3 | 8403.0 | 9657.2 |
| 65°   | 232.9  | 244.9  | 268.8  | 328.5  | 304.6  | 328.5  | 501.7  | 1493.1 | 5990.2 | 7829.7 | 9167.5 |
| 67.5° | 215.0  | 226.9  | 244.9  | 268.8  | 274.7  | 298.6  | 483.8  | 1313.9 | 5494.5 | 7119.0 | 8498.6 |
| 70°   | 191.1  | 203.1  | 221.0  | 238.9  | 244.9  | 280.7  | 453.9  | 1140.7 | 4694.2 | 6169.4 | 7680.4 |
| 72.5° | 173.2  | 179.2  | 197.1  | 209.0  | 221.0  | 256.8  | 436.0  | 997.4  | 3589.3 | 4992.8 | 6264.9 |
| 75°   | 149.3  | 149.3  | 167.2  | 179.2  | 191.1  | 226.9  | 400.1  | 830.1  | 2532.3 | 3810.3 | 4604.6 |
| 77.5° | 125.4  | 125.4  | 137.4  | 149.3  | 161.3  | 197.1  | 340.4  | 674.9  | 1755.9 | 3022.0 | 3338.5 |
| 80°   | 95.6   | 95.6   | 107.5  | 119.4  | 131.4  | 167.2  | 274.7  | 495.7  | 1087.0 | 2209.7 | 2430.7 |
| 82.5° | 65.7   | 65.7   | 83.6   | 89.6   | 95.6   | 131.4  | 209.0  | 340.4  | 639.0  | 1594.6 | 1737.9 |
| 85°   | 35.8   | 35.8   | 47.8   | 53.8   | 65.7   | 95.6   | 155.3  | 238.9  | 382.2  | 1152.7 | 1158.6 |
| 87.5° | 6.0    | 6.0    | 17.9   | 17.9   | 29.9   | 47.8   | 89.6   | 131.4  | 215.0  | 639.0  | 406.1  |
| 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):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4264.2  | 4264.2  | 4264.2  | 4264.2  | 4264.2  | 4264.2  | 4264.2  | 4264.2  | 4264.2  | 4264.2  |
| 2.5°  | 4664.4  | 4730.1  | 4736.0  | 4736.0  | 4706.2  | 4712.1  | 4628.5  | 4538.9  | 4509.1  | 4503.1  |
| 5°    | 4909.2  | 5082.4  | 5130.2  | 5154.1  | 5076.4  | 4957.0  | 4742.0  | 4509.1  | 4389.6  | 4371.7  |
| 7.5°  | 4861.4  | 5207.8  | 5393.0  | 5416.9  | 5261.6  | 4980.9  | 4604.6  | 4246.3  | 4108.9  | 4073.1  |
| 10°   | 4580.7  | 5046.6  | 5381.0  | 5464.6  | 5297.4  | 4939.1  | 4449.4  | 4031.3  | 3864.1  | 3834.2  |
| 12.5° | 4383.7  | 4831.6  | 5160.1  | 5273.5  | 5195.9  | 4885.3  | 4371.7  | 3893.9  | 3726.7  | 3684.9  |
| 15°   | 4276.2  | 4688.2  | 4903.3  | 4939.1  | 4933.1  | 4801.7  | 4371.7  | 3923.8  | 3738.7  | 3690.9  |
| 17.5° | 4365.7  | 4646.4  | 4676.3  | 4592.7  | 4640.5  | 4706.2  | 4467.3  | 4085.0  | 3905.9  | 3864.1  |
| 20°   | 4544.9  | 4628.5  | 4485.2  | 4359.8  | 4383.7  | 4592.7  | 4616.6  | 4389.6  | 4246.3  | 4174.6  |
| 22.5° | 4921.2  | 4694.2  | 4365.7  | 4192.5  | 4210.5  | 4503.1  | 4813.7  | 4801.7  | 4676.3  | 4640.5  |
| 25°   | 5303.4  | 4879.4  | 4329.9  | 4126.9  | 4150.7  | 4485.2  | 5046.6  | 5261.6  | 5195.9  | 5178.0  |
| 27.5° | 5727.4  | 5189.9  | 4353.8  | 4097.0  | 4126.9  | 4509.1  | 5207.8  | 5649.8  | 5661.7  | 5643.8  |
| 30°   | 6014.1  | 5339.2  | 4425.5  | 4132.8  | 4174.6  | 4568.8  | 5243.7  | 5882.7  | 5990.2  | 5996.2  |
| 32.5° | 6253.0  | 5488.5  | 4574.8  | 4192.5  | 4264.2  | 4676.3  | 5339.2  | 6103.7  | 6342.6  | 6348.5  |
| 35°   | 6444.1  | 5655.8  | 4759.9  | 4300.1  | 4407.6  | 4855.5  | 5464.6  | 6312.7  | 6671.1  | 6712.9  |
| 37.5° | 6689.0  | 5840.9  | 4974.9  | 4533.0  | 4652.4  | 5112.3  | 5685.6  | 6557.6  | 7059.2  | 7172.7  |
| 40°   | 6951.7  | 6026.0  | 5285.5  | 4909.2  | 5082.4  | 5494.5  | 5936.5  | 6832.3  | 7387.7  | 7543.0  |
| 42.5° | 7244.4  | 6223.1  | 5637.8  | 5416.9  | 5679.7  | 5978.3  | 6223.1  | 7083.1  | 7638.6  | 7817.7  |
| 45°   | 7531.1  | 6462.0  | 6151.5  | 6109.7  | 6402.3  | 6551.6  | 6503.8  | 7262.3  | 7877.5  | 8056.6  |
| 47.5° | 7734.1  | 6808.4  | 6772.6  | 7023.4  | 7298.1  | 7220.5  | 6832.3  | 7393.7  | 8074.5  | 8271.6  |
| 50°   | 7919.3  | 7238.4  | 7555.0  | 8044.7  | 8211.9  | 7949.1  | 7184.7  | 7572.9  | 8283.6  | 8504.5  |
| 52.5° | 8194.0  | 7698.3  | 8361.2  | 8970.4  | 9131.6  | 8713.6  | 7566.9  | 7865.5  | 8606.1  | 8803.2  |
| 55°   | 8755.4  | 8217.9  | 9203.3  | 9902.1  | 9931.9  | 9412.3  | 8080.5  | 8361.2  | 9060.0  | 9286.9  |
| 57.5° | 9382.5  | 8856.9  | 9872.2  | 10672.5 | 10660.5 | 10111.1 | 8659.8  | 9030.1  | 9675.1  | 9830.4  |
| 60°   | 9949.8  | 9501.9  | 10600.8 | 11221.9 | 11192.1 | 10618.7 | 9334.7  | 9788.6  | 10379.8 | 10499.3 |
| 62.5° | 10284.3 | 10087.2 | 10923.3 | 11395.1 | 11281.7 | 10786.0 | 9908.0  | 10463.5 | 10881.5 | 10923.3 |
| 65°   | 10230.5 | 10421.7 | 10547.1 | 10839.7 | 10678.5 | 10320.1 | 10188.7 | 10893.5 | 10935.3 | 10893.5 |
| 67.5° | 9824.4  | 10230.5 | 9513.9  | 9543.7  | 9460.1  | 9155.5  | 9752.8  | 10780.0 | 10493.3 | 10391.8 |
| 70°   | 9209.3  | 9239.1  | 7955.1  | 7578.8  | 7710.2  | 7292.2  | 8367.2  | 9896.1  | 9454.1  | 9328.7  |
| 72.5° | 8188.0  | 7817.7  | 6014.1  | 5631.9  | 5829.0  | 5530.3  | 6712.9  | 8624.0  | 8194.0  | 7787.9  |
| 75°   | 6868.1  | 6193.3  | 4580.7  | 4037.3  | 4138.8  | 4126.9  | 5201.9  | 7124.9  | 6348.5  | 5942.4  |
| 77.5° | 5321.3  | 4825.6  | 3380.3  | 3171.3  | 3063.8  | 3087.7  | 3631.2  | 5297.4  | 4604.6  | 4097.0  |
| 80°   | 3888.0  | 3374.3  | 2615.9  | 2735.3  | 2675.6  | 2532.3  | 2544.2  | 3547.5  | 3201.1  | 2896.6  |
| 82.5° | 2687.5  | 2400.9  | 2120.2  | 2394.9  | 2251.6  | 2030.6  | 1982.8  | 2556.1  | 2400.9  | 2215.7  |
| 85°   | 1803.6  | 1976.8  | 1684.2  | 1833.5  | 1588.6  | 1463.2  | 1863.4  | 2138.1  | 1726.0  | 1540.9  |
| 87.5° | 1176.5  | 1809.6  | 1212.4  | 919.7   | 525.6   | 704.7   | 1140.7  | 1403.5  | 806.3   | 436.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)