

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: P598764

Luminaire Tested: **IFLD-S-SA2D-760-U-SLR**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598764  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA2D-760-U-SLR  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens  
 Light Source: (32) 5700K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

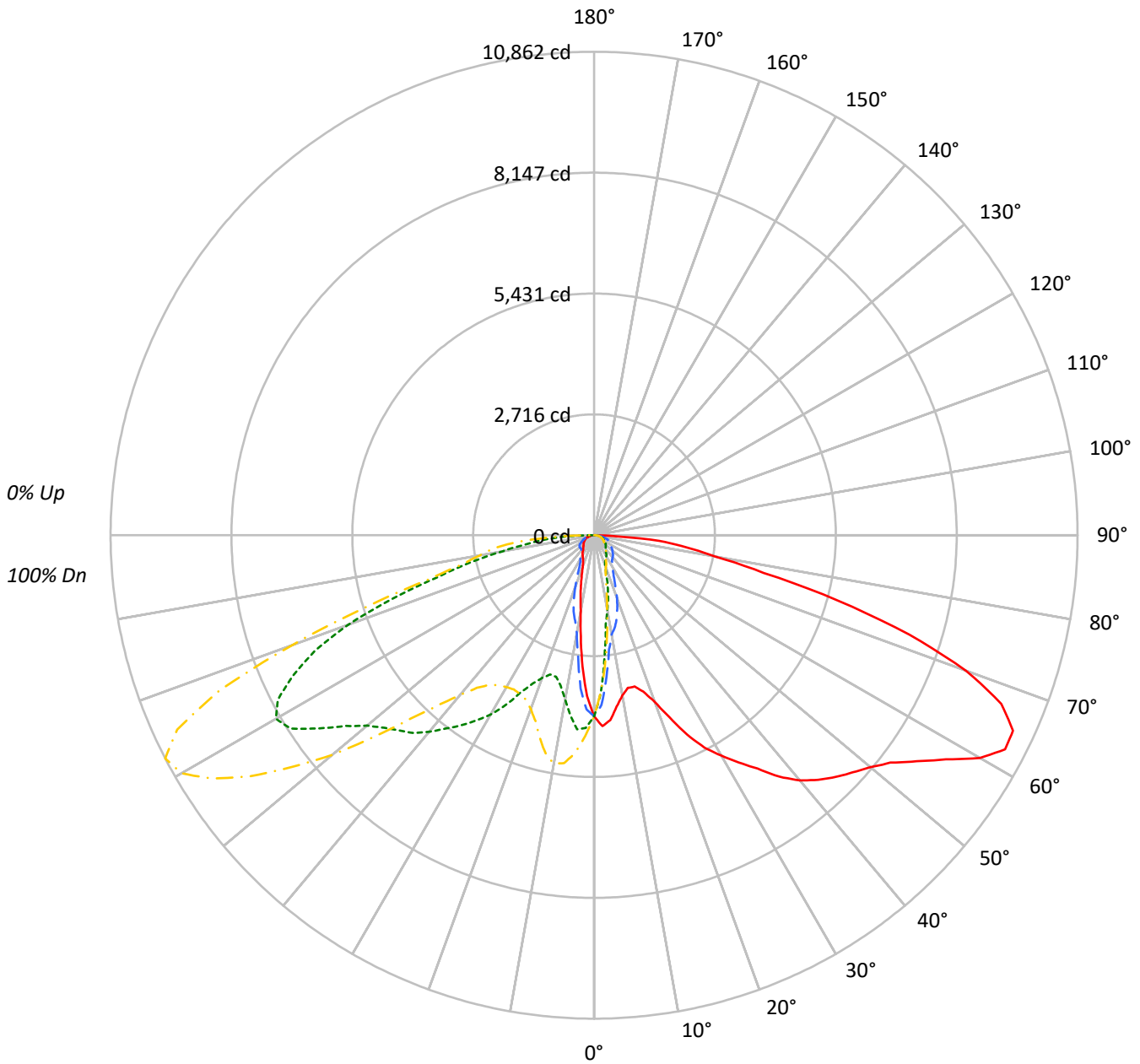
Lumens per Lamp: N/A  
 Luminaire Lumens: 13607.3 lumens  
 Efficiency: N/A  
 Efficacy: 109.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.13 / 0.53 / 0.8  
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 123.9  
 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



— 0°-180°    - - 45°-225°    - · - 90°-270°    - · · - 135°-315°

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

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

|     | 0°     | 90°   | 180°  | 270°   |
|-----|--------|-------|-------|--------|
| 0°  | 87504  | 87504 | 87504 | 87504  |
| 5°  | 90053  | 58559 | 63972 | 94607  |
| 10° | 79896  | 37210 | 37584 | 81761  |
| 15° | 78411  | 26390 | 24995 | 73336  |
| 20° | 91164  | 16694 | 16825 | 78123  |
| 25° | 117242 | 14333 | 13929 | 92360  |
| 30° | 142082 | 13585 | 12737 | 115618 |
| 35° | 168164 | 11968 | 11521 | 137046 |
| 40° | 202063 | 11359 | 10558 | 161905 |
| 45° | 233808 | 11265 | 10226 | 188747 |
| 50° | 271504 | 11441 | 10295 | 222885 |
| 55° | 332258 | 11751 | 10472 | 283968 |
| 60° | 430905 | 11767 | 11031 | 355166 |
| 65° | 528947 | 11889 | 11308 | 380180 |
| 70° | 559710 | 12545 | 11827 | 370156 |
| 75° | 471157 | 13258 | 11836 | 302108 |
| 80° | 342304 | 15522 | 12001 | 261138 |
| 85° | 362800 | 22502 | 9855  | 271383 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 314.6   | 2.3       |
| 10°-20°   | 658.4   | 4.8       |
| 20°-30°   | 948.8   | 7.0       |
| 30°-40°   | 1365.9  | 10.0      |
| 40°-50°   | 1940.1  | 14.3      |
| 50°-60°   | 2789.3  | 20.5      |
| 60°-70°   | 3222.6  | 23.7      |
| 70°-80°   | 1824.7  | 13.4      |
| 80°-90°   | 543.0   | 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°    | 1921.7  | 14.1      |
| 0°-40°    | 3287.6  | 24.2      |
| 0°-60°    | 8017.0  | 58.9      |
| 0°-90°    | 13607.3 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 13607.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 90°  | 180° | 270° | 360°  | Flux |
|-----|-------|------|------|------|-------|------|
| 0°  | 4065  | 4065 | 4065 | 4065 | 4065  |      |
| 5°  | 4167  | 2710 | 2960 | 4378 | 4167  | 378  |
| 15° | 3518  | 1184 | 1122 | 3290 | 3518  | 1035 |
| 25° | 4936  | 603  | 586  | 3888 | 4936  | 2291 |
| 35° | 6399  | 455  | 438  | 5215 | 6399  | 4061 |
| 45° | 7680  | 370  | 336  | 6200 | 7680  | 5947 |
| 55° | 8852  | 313  | 279  | 7566 | 8852  | 8017 |
| 65° | 10384 | 233  | 222  | 7463 | 10384 | 9957 |
| 75° | 5664  | 159  | 142  | 3632 | 5664  | 6010 |
| 85° | 1469  | 91   | 40   | 1099 | 1469  | 1463 |
| 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°    | 4064.7  | 4064.7  | 4064.7  | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 |
| 2.5°  | 4292.5  | 4286.8  | 4252.6  | 4144.4 | 4030.6 | 3922.4 | 3819.9 | 3711.8 | 3654.9 | 3586.5 | 3558.1 |
| 5°    | 4167.2  | 4155.8  | 4059.0  | 3819.9 | 3609.3 | 3381.6 | 3188.0 | 3034.3 | 2909.1 | 2783.8 | 2738.3 |
| 7.5°  | 3882.6  | 3865.5  | 3751.6  | 3421.4 | 3114.0 | 2818.0 | 2584.6 | 2385.3 | 2220.2 | 2146.2 | 2060.8 |
| 10°   | 3654.9  | 3626.4  | 3478.4  | 3114.0 | 2715.5 | 2419.5 | 2265.8 | 2129.2 | 1986.8 | 1867.3 | 1742.0 |
| 12.5° | 3512.5  | 3478.4  | 3324.7  | 2897.7 | 2510.6 | 2288.6 | 2129.2 | 1975.4 | 1799.0 | 1650.9 | 1514.3 |
| 15°   | 3518.2  | 3478.4  | 3290.5  | 2840.8 | 2459.3 | 2174.7 | 1952.7 | 1742.0 | 1537.1 | 1372.0 | 1218.3 |
| 17.5° | 3683.3  | 3632.1  | 3432.8  | 2920.5 | 2419.5 | 2026.7 | 1730.6 | 1457.4 | 1224.0 | 1047.5 | 922.3  |
| 20°   | 3979.3  | 3945.2  | 3717.5  | 3040.0 | 2379.6 | 1867.3 | 1502.9 | 1172.7 | 927.9  | 791.3  | 740.1  |
| 22.5° | 4423.4  | 4383.5  | 4138.7  | 3222.2 | 2368.3 | 1725.0 | 1258.1 | 922.3  | 745.8  | 688.8  | 660.4  |
| 25°   | 4935.8  | 4861.7  | 4634.0  | 3529.6 | 2391.0 | 1594.0 | 1058.9 | 762.9  | 666.1  | 626.2  | 609.1  |
| 27.5° | 5379.8  | 5334.3  | 5078.1  | 3819.9 | 2402.4 | 1491.5 | 922.3  | 694.5  | 620.5  | 586.4  | 575.0  |
| 30°   | 5715.7  | 5698.6  | 5448.1  | 4138.7 | 2373.9 | 1366.3 | 836.9  | 666.1  | 620.5  | 586.4  | 552.2  |
| 32.5° | 6051.6  | 6057.3  | 5789.7  | 4383.5 | 2334.1 | 1258.1 | 757.2  | 592.1  | 546.5  | 523.7  | 529.4  |
| 35°   | 6398.8  | 6427.3  | 6199.6  | 4622.6 | 2248.7 | 1218.3 | 700.2  | 552.2  | 512.4  | 478.2  | 461.1  |
| 37.5° | 6837.2  | 6911.2  | 6689.2  | 4890.2 | 2163.3 | 1184.1 | 671.8  | 523.7  | 483.9  | 455.4  | 432.7  |
| 40°   | 7190.2  | 7326.8  | 7195.8  | 5140.7 | 2106.4 | 1144.3 | 649.0  | 495.3  | 466.8  | 432.7  | 415.6  |
| 42.5° | 7452.0  | 7611.4  | 7565.9  | 5334.3 | 2106.4 | 1104.4 | 626.2  | 478.2  | 455.4  | 415.6  | 392.8  |
| 45°   | 7679.7  | 7844.8  | 7839.1  | 5533.5 | 2151.9 | 1081.7 | 597.8  | 478.2  | 444.0  | 404.2  | 381.4  |
| 47.5° | 7884.7  | 8049.8  | 8106.7  | 5784.0 | 2225.9 | 1070.3 | 563.6  | 466.8  | 444.0  | 398.5  | 364.3  |
| 50°   | 8106.7  | 8288.9  | 8459.7  | 6182.5 | 2317.0 | 1041.8 | 540.8  | 449.7  | 449.7  | 392.8  | 353.0  |
| 52.5° | 8391.4  | 8596.3  | 8909.4  | 6677.8 | 2408.1 | 990.6  | 506.7  | 438.4  | 449.7  | 387.1  | 341.6  |
| 55°   | 8852.5  | 9023.3  | 9433.2  | 7269.9 | 2522.0 | 927.9  | 478.2  | 409.9  | 427.0  | 370.0  | 324.5  |
| 57.5° | 9370.5  | 9518.6  | 9860.1  | 7725.3 | 2556.1 | 848.2  | 438.4  | 381.4  | 409.9  | 353.0  | 301.7  |
| 60°   | 10008.1 | 10082.2 | 10082.2 | 7856.2 | 2442.3 | 774.2  | 409.9  | 358.7  | 370.0  | 335.9  | 284.6  |
| 62.5° | 10412.3 | 10412.3 | 10082.2 | 7617.1 | 2225.9 | 711.6  | 387.1  | 335.9  | 324.5  | 313.1  | 267.6  |
| 65°   | 10383.9 | 10338.3 | 9848.7  | 6922.6 | 1975.4 | 671.8  | 364.3  | 307.4  | 290.3  | 284.6  | 250.5  |
| 67.5° | 9905.7  | 9826.0  | 9159.9  | 5943.4 | 1713.6 | 654.7  | 341.6  | 279.0  | 267.6  | 256.2  | 227.7  |
| 70°   | 8892.3  | 8687.4  | 7867.6  | 4782.0 | 1457.4 | 643.3  | 335.9  | 256.2  | 244.8  | 233.4  | 210.6  |
| 72.5° | 7423.6  | 7161.7  | 6142.7  | 3677.6 | 1224.0 | 603.4  | 318.8  | 227.7  | 222.0  | 210.6  | 187.9  |
| 75°   | 5664.5  | 5180.6  | 4286.8  | 2812.3 | 950.7  | 523.7  | 273.3  | 199.3  | 199.3  | 193.6  | 170.8  |
| 77.5° | 3905.3  | 3654.9  | 2988.8  | 2077.9 | 694.5  | 404.2  | 222.0  | 176.5  | 176.5  | 182.2  | 159.4  |
| 80°   | 2761.1  | 2527.7  | 2129.2  | 1491.5 | 438.4  | 273.3  | 170.8  | 148.0  | 165.1  | 176.5  | 148.0  |
| 82.5° | 2112.1  | 1941.3  | 1582.6  | 1087.3 | 256.2  | 187.9  | 130.9  | 119.6  | 142.3  | 153.7  | 125.2  |
| 85°   | 1468.8  | 1263.8  | 802.7   | 728.7  | 148.0  | 113.9  | 96.8   | 96.8   | 125.2  | 153.7  | 113.9  |
| 87.5° | 415.6   | 176.5   | 51.2    | 216.3  | 62.6   | 45.5   | 34.2   | 22.8   | 34.2   | 34.2   | 22.8   |
| 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°    | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 |
| 2.5°  | 3529.6 | 3495.5 | 3495.5 | 3484.1 | 3489.8 | 3495.5 | 3489.8 | 3529.6 | 3546.7 | 3569.5 | 3615.0 |
| 5°    | 2709.8 | 2755.4 | 2721.2 | 2755.4 | 2800.9 | 2869.2 | 2886.3 | 2937.5 | 2943.2 | 2983.1 | 2960.3 |
| 7.5°  | 2009.6 | 2003.9 | 1975.4 | 2015.3 | 2140.5 | 2237.3 | 2282.9 | 2311.3 | 2317.0 | 2317.0 | 2288.6 |
| 10°   | 1702.2 | 1650.9 | 1599.7 | 1571.2 | 1582.6 | 1685.1 | 1719.3 | 1736.3 | 1725.0 | 1742.0 | 1719.3 |
| 12.5° | 1457.4 | 1411.8 | 1337.8 | 1286.6 | 1252.4 | 1280.9 | 1315.1 | 1332.1 | 1343.5 | 1372.0 | 1394.8 |
| 15°   | 1184.1 | 1138.6 | 1093.0 | 1064.6 | 1036.1 | 1013.3 | 1041.8 | 1058.9 | 1087.3 | 1110.1 | 1121.5 |
| 17.5° | 899.5  | 876.7  | 853.9  | 871.0  | 871.0  | 859.6  | 871.0  | 876.7  | 888.1  | 905.2  | 899.5  |
| 20°   | 728.7  | 723.0  | 717.3  | 745.8  | 768.5  | 768.5  | 779.9  | 762.9  | 757.2  | 740.1  | 734.4  |
| 22.5° | 649.0  | 649.0  | 654.7  | 677.5  | 700.2  | 711.6  | 711.6  | 683.1  | 654.7  | 643.3  | 649.0  |
| 25°   | 603.4  | 603.4  | 620.5  | 626.2  | 637.6  | 637.6  | 643.3  | 614.8  | 597.8  | 580.7  | 586.4  |
| 27.5° | 569.3  | 569.3  | 575.0  | 575.0  | 580.7  | 580.7  | 586.4  | 575.0  | 552.2  | 546.5  | 546.5  |
| 30°   | 546.5  | 546.5  | 540.8  | 540.8  | 540.8  | 540.8  | 546.5  | 529.4  | 518.1  | 512.4  | 512.4  |
| 32.5° | 523.7  | 518.1  | 512.4  | 512.4  | 506.7  | 506.7  | 512.4  | 495.3  | 489.6  | 489.6  | 489.6  |
| 35°   | 455.4  | 449.7  | 455.4  | 466.8  | 466.8  | 472.5  | 472.5  | 466.8  | 455.4  | 444.0  | 438.4  |
| 37.5° | 427.0  | 421.3  | 421.3  | 421.3  | 432.7  | 438.4  | 444.0  | 432.7  | 415.6  | 398.5  | 398.5  |
| 40°   | 404.2  | 404.2  | 398.5  | 398.5  | 398.5  | 409.9  | 421.3  | 404.2  | 381.4  | 375.7  | 375.7  |
| 42.5° | 387.1  | 381.4  | 375.7  | 370.0  | 364.3  | 381.4  | 392.8  | 370.0  | 358.7  | 358.7  | 358.7  |
| 45°   | 370.0  | 364.3  | 358.7  | 353.0  | 347.3  | 353.0  | 364.3  | 341.6  | 335.9  | 335.9  | 335.9  |
| 47.5° | 353.0  | 347.3  | 335.9  | 330.2  | 324.5  | 324.5  | 335.9  | 318.8  | 313.1  | 318.8  | 318.8  |
| 50°   | 341.6  | 330.2  | 318.8  | 313.1  | 307.4  | 307.4  | 307.4  | 301.7  | 301.7  | 301.7  | 307.4  |
| 52.5° | 330.2  | 318.8  | 301.7  | 296.0  | 290.3  | 290.3  | 290.3  | 290.3  | 284.6  | 290.3  | 296.0  |
| 55°   | 313.1  | 301.7  | 290.3  | 284.6  | 279.0  | 273.3  | 279.0  | 273.3  | 273.3  | 279.0  | 279.0  |
| 57.5° | 290.3  | 279.0  | 267.6  | 267.6  | 261.9  | 261.9  | 267.6  | 261.9  | 261.9  | 267.6  | 267.6  |
| 60°   | 273.3  | 261.9  | 250.5  | 250.5  | 244.8  | 250.5  | 256.2  | 250.5  | 250.5  | 250.5  | 256.2  |
| 62.5° | 250.5  | 244.8  | 233.4  | 233.4  | 233.4  | 233.4  | 239.1  | 233.4  | 239.1  | 239.1  | 239.1  |
| 65°   | 233.4  | 222.0  | 216.3  | 216.3  | 216.3  | 216.3  | 227.7  | 216.3  | 222.0  | 222.0  | 222.0  |
| 67.5° | 216.3  | 204.9  | 199.3  | 199.3  | 199.3  | 199.3  | 210.6  | 199.3  | 204.9  | 210.6  | 204.9  |
| 70°   | 199.3  | 187.9  | 182.2  | 182.2  | 182.2  | 182.2  | 187.9  | 182.2  | 182.2  | 187.9  | 187.9  |
| 72.5° | 176.5  | 170.8  | 165.1  | 165.1  | 159.4  | 165.1  | 170.8  | 165.1  | 165.1  | 165.1  | 165.1  |
| 75°   | 159.4  | 153.7  | 153.7  | 148.0  | 148.0  | 148.0  | 153.7  | 142.3  | 142.3  | 142.3  | 142.3  |
| 77.5° | 148.0  | 136.6  | 136.6  | 136.6  | 130.9  | 136.6  | 130.9  | 119.6  | 119.6  | 119.6  | 119.6  |
| 80°   | 125.2  | 113.9  | 119.6  | 119.6  | 113.9  | 113.9  | 108.2  | 96.8   | 96.8   | 96.8   | 96.8   |
| 82.5° | 102.5  | 91.1   | 96.8   | 96.8   | 96.8   | 96.8   | 85.4   | 79.7   | 74.0   | 68.3   | 68.3   |
| 85°   | 91.1   | 74.0   | 85.4   | 85.4   | 79.7   | 79.7   | 56.9   | 56.9   | 45.5   | 45.5   | 39.9   |
| 87.5° | 17.1   | 11.4   | 22.8   | 28.5   | 28.5   | 34.2   | 22.8   | 28.5   | 17.1   | 11.4   | 11.4   |
| 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°    | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 |
| 2.5°  | 3609.3 | 3671.9 | 3757.3 | 3819.9 | 3916.7 | 3990.7 | 4104.6 | 4201.4 | 4292.5 | 4332.3 | 4372.2 |
| 5°    | 3028.6 | 3068.5 | 3199.4 | 3301.9 | 3455.6 | 3620.7 | 3825.6 | 4047.7 | 4275.4 | 4377.9 | 4497.4 |
| 7.5°  | 2265.8 | 2339.8 | 2413.8 | 2561.8 | 2749.7 | 3017.2 | 3279.1 | 3609.3 | 3928.1 | 4081.8 | 4286.8 |
| 10°   | 1759.1 | 1816.0 | 1901.4 | 2055.1 | 2231.6 | 2453.6 | 2766.8 | 3159.6 | 3541.0 | 3740.2 | 3950.9 |
| 12.5° | 1411.8 | 1491.5 | 1605.4 | 1764.8 | 1969.7 | 2197.5 | 2425.2 | 2789.5 | 3233.6 | 3461.3 | 3700.4 |
| 15°   | 1144.3 | 1206.9 | 1332.1 | 1531.4 | 1770.5 | 2003.9 | 2243.0 | 2544.7 | 3028.6 | 3290.5 | 3575.2 |
| 17.5° | 910.9  | 956.4  | 1070.3 | 1269.5 | 1508.6 | 1770.5 | 2043.8 | 2425.2 | 2960.3 | 3279.1 | 3615.0 |
| 20°   | 740.1  | 774.2  | 848.2  | 996.3  | 1224.0 | 1508.6 | 1850.2 | 2311.3 | 3000.2 | 3410.1 | 3819.9 |
| 22.5° | 649.0  | 660.4  | 694.5  | 774.2  | 962.1  | 1263.8 | 1673.7 | 2214.5 | 3074.2 | 3603.6 | 4155.8 |
| 25°   | 586.4  | 597.8  | 609.1  | 660.4  | 768.5  | 1053.2 | 1520.0 | 2157.6 | 3233.6 | 3888.3 | 4542.9 |
| 27.5° | 546.5  | 557.9  | 563.6  | 586.4  | 660.4  | 899.5  | 1389.1 | 2123.5 | 3449.9 | 4303.8 | 5021.2 |
| 30°   | 512.4  | 512.4  | 529.4  | 563.6  | 614.8  | 791.3  | 1275.2 | 2043.8 | 3677.6 | 4651.1 | 5396.9 |
| 32.5° | 483.9  | 489.6  | 512.4  | 529.4  | 563.6  | 700.2  | 1161.4 | 1941.3 | 3882.6 | 4935.8 | 5766.9 |
| 35°   | 432.7  | 432.7  | 438.4  | 466.8  | 512.4  | 626.2  | 1058.9 | 1838.8 | 3996.4 | 5214.7 | 6097.1 |
| 37.5° | 398.5  | 404.2  | 415.6  | 438.4  | 478.2  | 575.0  | 973.5  | 1725.0 | 4116.0 | 5476.6 | 6484.2 |
| 40°   | 375.7  | 381.4  | 392.8  | 415.6  | 455.4  | 529.4  | 899.5  | 1633.9 | 4241.2 | 5761.2 | 6899.8 |
| 42.5° | 358.7  | 364.3  | 375.7  | 398.5  | 432.7  | 518.1  | 819.8  | 1559.9 | 4315.2 | 6023.1 | 7292.6 |
| 45°   | 341.6  | 347.3  | 364.3  | 387.1  | 415.6  | 506.7  | 774.2  | 1508.6 | 4343.7 | 6199.6 | 7605.7 |
| 47.5° | 324.5  | 330.2  | 347.3  | 381.4  | 415.6  | 489.6  | 757.2  | 1480.2 | 4366.5 | 6398.8 | 7856.2 |
| 50°   | 307.4  | 318.8  | 341.6  | 375.7  | 421.3  | 466.8  | 745.8  | 1474.5 | 4497.4 | 6655.0 | 8095.3 |
| 52.5° | 296.0  | 313.1  | 335.9  | 375.7  | 415.6  | 432.7  | 740.1  | 1491.5 | 4759.3 | 7036.4 | 8436.9 |
| 55°   | 284.6  | 301.7  | 324.5  | 375.7  | 398.5  | 404.2  | 711.6  | 1520.0 | 5157.8 | 7565.9 | 8920.8 |
| 57.5° | 273.3  | 284.6  | 313.1  | 364.3  | 375.7  | 381.4  | 654.7  | 1559.9 | 5556.3 | 8083.9 | 9416.1 |
| 60°   | 256.2  | 267.6  | 296.0  | 364.3  | 341.6  | 358.7  | 580.7  | 1571.2 | 5840.9 | 8249.0 | 9461.6 |
| 62.5° | 239.1  | 250.5  | 279.0  | 375.7  | 313.1  | 335.9  | 518.1  | 1531.4 | 5897.9 | 8009.9 | 9205.4 |
| 65°   | 222.0  | 233.4  | 256.2  | 313.1  | 290.3  | 313.1  | 478.2  | 1423.2 | 5710.0 | 7463.4 | 8738.6 |
| 67.5° | 204.9  | 216.3  | 233.4  | 256.2  | 261.9  | 284.6  | 461.1  | 1252.4 | 5237.5 | 6786.0 | 8101.0 |
| 70°   | 182.2  | 193.6  | 210.6  | 227.7  | 233.4  | 267.6  | 432.7  | 1087.3 | 4474.6 | 5880.8 | 7321.1 |
| 72.5° | 165.1  | 170.8  | 187.9  | 199.3  | 210.6  | 244.8  | 415.6  | 950.7  | 3421.4 | 4759.3 | 5971.9 |
| 75°   | 142.3  | 142.3  | 159.4  | 170.8  | 182.2  | 216.3  | 381.4  | 791.3  | 2413.8 | 3632.1 | 4389.2 |
| 77.5° | 119.6  | 119.6  | 130.9  | 142.3  | 153.7  | 187.9  | 324.5  | 643.3  | 1673.7 | 2880.6 | 3182.3 |
| 80°   | 91.1   | 91.1   | 102.5  | 113.9  | 125.2  | 159.4  | 261.9  | 472.5  | 1036.1 | 2106.4 | 2317.0 |
| 82.5° | 62.6   | 62.6   | 79.7   | 85.4   | 91.1   | 125.2  | 199.3  | 324.5  | 609.1  | 1520.0 | 1656.6 |
| 85°   | 34.2   | 34.2   | 45.5   | 51.2   | 62.6   | 91.1   | 148.0  | 227.7  | 364.3  | 1098.7 | 1104.4 |
| 87.5° | 5.7    | 5.7    | 17.1   | 17.1   | 28.5   | 45.5   | 85.4   | 125.2  | 204.9  | 609.1  | 387.1  |
| 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°    | 4064.7 | 4064.7 | 4064.7  | 4064.7  | 4064.7  | 4064.7  | 4064.7 | 4064.7  | 4064.7  | 4064.7  |
| 2.5°  | 4446.2 | 4508.8 | 4514.5  | 4514.5  | 4486.0  | 4491.7  | 4412.0 | 4326.6  | 4298.2  | 4292.5  |
| 5°    | 4679.6 | 4844.7 | 4890.2  | 4913.0  | 4839.0  | 4725.1  | 4520.2 | 4298.2  | 4184.3  | 4167.2  |
| 7.5°  | 4634.0 | 4964.2 | 5140.7  | 5163.5  | 5015.5  | 4747.9  | 4389.2 | 4047.7  | 3916.7  | 3882.6  |
| 10°   | 4366.5 | 4810.5 | 5129.3  | 5209.0  | 5049.6  | 4708.0  | 4241.2 | 3842.7  | 3683.3  | 3654.9  |
| 12.5° | 4178.6 | 4605.6 | 4918.7  | 5026.8  | 4952.8  | 4656.8  | 4167.2 | 3711.8  | 3552.4  | 3512.5  |
| 15°   | 4076.1 | 4468.9 | 4673.9  | 4708.0  | 4702.3  | 4577.1  | 4167.2 | 3740.2  | 3563.8  | 3518.2  |
| 17.5° | 4161.5 | 4429.1 | 4457.6  | 4377.9  | 4423.4  | 4486.0  | 4258.3 | 3894.0  | 3723.2  | 3683.3  |
| 20°   | 4332.3 | 4412.0 | 4275.4  | 4155.8  | 4178.6  | 4377.9  | 4400.6 | 4184.3  | 4047.7  | 3979.3  |
| 22.5° | 4691.0 | 4474.6 | 4161.5  | 3996.4  | 4013.5  | 4292.5  | 4588.5 | 4577.1  | 4457.6  | 4423.4  |
| 25°   | 5055.3 | 4651.1 | 4127.4  | 3933.8  | 3956.6  | 4275.4  | 4810.5 | 5015.5  | 4952.8  | 4935.8  |
| 27.5° | 5459.5 | 4947.1 | 4150.1  | 3905.3  | 3933.8  | 4298.2  | 4964.2 | 5385.5  | 5396.9  | 5379.8  |
| 30°   | 5732.8 | 5089.5 | 4218.5  | 3939.5  | 3979.3  | 4355.1  | 4998.4 | 5607.5  | 5710.0  | 5715.7  |
| 32.5° | 5960.5 | 5231.8 | 4360.8  | 3996.4  | 4064.7  | 4457.6  | 5089.5 | 5818.2  | 6045.9  | 6051.6  |
| 35°   | 6142.7 | 5391.2 | 4537.3  | 4098.9  | 4201.4  | 4628.3  | 5209.0 | 6017.4  | 6359.0  | 6398.8  |
| 37.5° | 6376.1 | 5567.7 | 4742.2  | 4320.9  | 4434.8  | 4873.1  | 5419.7 | 6250.8  | 6729.0  | 6837.2  |
| 40°   | 6626.6 | 5744.2 | 5038.2  | 4679.6  | 4844.7  | 5237.5  | 5658.8 | 6512.7  | 7042.1  | 7190.2  |
| 42.5° | 6905.5 | 5932.0 | 5374.1  | 5163.5  | 5414.0  | 5698.6  | 5932.0 | 6751.8  | 7281.2  | 7452.0  |
| 45°   | 7178.8 | 6159.7 | 5863.7  | 5823.9  | 6102.8  | 6245.1  | 6199.6 | 6922.6  | 7509.0  | 7679.7  |
| 47.5° | 7372.3 | 6489.9 | 6455.8  | 6694.9  | 6956.7  | 6882.7  | 6512.7 | 7047.8  | 7696.8  | 7884.7  |
| 50°   | 7548.8 | 6899.8 | 7201.5  | 7668.4  | 7827.8  | 7577.3  | 6848.6 | 7218.6  | 7896.1  | 8106.7  |
| 52.5° | 7810.7 | 7338.2 | 7970.1  | 8550.8  | 8704.5  | 8306.0  | 7212.9 | 7497.6  | 8203.5  | 8391.4  |
| 55°   | 8345.8 | 7833.5 | 8772.8  | 9438.9  | 9467.3  | 8972.0  | 7702.5 | 7970.1  | 8636.2  | 8852.5  |
| 57.5° | 8943.6 | 8442.6 | 9410.4  | 10173.2 | 10161.9 | 9638.1  | 8254.7 | 8607.7  | 9222.5  | 9370.5  |
| 60°   | 9484.4 | 9057.4 | 10104.9 | 10697.0 | 10668.5 | 10122.0 | 8898.0 | 9330.7  | 9894.3  | 10008.1 |
| 62.5° | 9803.2 | 9615.3 | 10412.3 | 10862.1 | 10753.9 | 10281.4 | 9444.5 | 9974.0  | 10372.5 | 10412.3 |
| 65°   | 9752.0 | 9934.1 | 10053.7 | 10332.6 | 10178.9 | 9837.4  | 9712.1 | 10383.9 | 10423.7 | 10383.9 |
| 67.5° | 9364.8 | 9752.0 | 9068.8  | 9097.3  | 9017.6  | 8727.2  | 9296.5 | 10275.7 | 10002.5 | 9905.7  |
| 70°   | 8778.5 | 8806.9 | 7583.0  | 7224.3  | 7349.6  | 6951.0  | 7975.8 | 9433.2  | 9011.9  | 8892.3  |
| 72.5° | 7805.0 | 7452.0 | 5732.8  | 5368.4  | 5556.3  | 5271.6  | 6398.8 | 8220.6  | 7810.7  | 7423.6  |
| 75°   | 6546.9 | 5903.6 | 4366.5  | 3848.4  | 3945.2  | 3933.8  | 4958.5 | 6791.6  | 6051.6  | 5664.5  |
| 77.5° | 5072.4 | 4599.9 | 3222.2  | 3022.9  | 2920.5  | 2943.2  | 3461.3 | 5049.6  | 4389.2  | 3905.3  |
| 80°   | 3706.1 | 3216.5 | 2493.5  | 2607.4  | 2550.4  | 2413.8  | 2425.2 | 3381.6  | 3051.4  | 2761.1  |
| 82.5° | 2561.8 | 2288.6 | 2021.0  | 2282.9  | 2146.2  | 1935.6  | 1890.0 | 2436.6  | 2288.6  | 2112.1  |
| 85°   | 1719.3 | 1884.4 | 1605.4  | 1747.7  | 1514.3  | 1394.8  | 1776.2 | 2038.1  | 1645.3  | 1468.8  |
| 87.5° | 1121.5 | 1725.0 | 1155.7  | 876.7   | 501.0   | 671.8   | 1087.3 | 1337.8  | 768.5   | 415.6   |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)