

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: P599066

Luminaire Tested: **IFLD-M-SA4A-827-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P599066  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-M-SA4A-827-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (64) 2700K CCT, 80 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

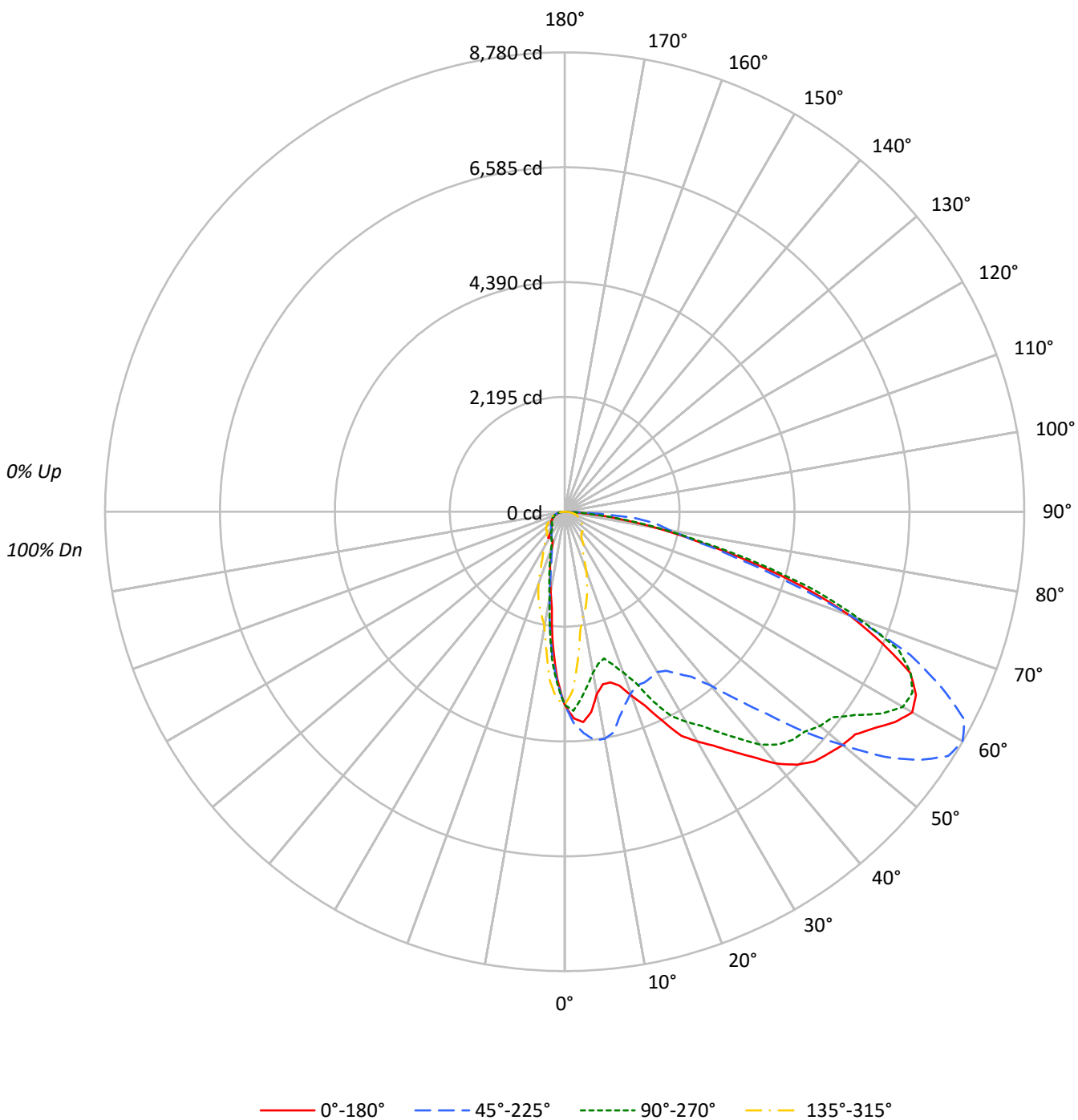
Lumens per Lamp: N/A  
 Luminaire Lumens: 11547.2 lumens  
 Efficiency: N/A  
 Efficacy: 89.8 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 128.6  
 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: P599066

CATALOG NUMBER: IFLD-M-SA4A-827-U-SLL

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF  | 20  |     |     |     | 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 |    |    |    | 100 |
| 1   | 106 | 100 | 94  | 89  | 103 | 97  | 92  | 88  | 93  | 89  | 85  | 89  | 85  | 82  | 85  | 82  | 80  | 77  |    |    |    | 77  |
| 2   | 94  | 83  | 75  | 68  | 91  | 81  | 74  | 67  | 78  | 71  | 65  | 74  | 69  | 64  | 71  | 66  | 62  | 60  |    |    |    | 60  |
| 3   | 84  | 71  | 61  | 53  | 81  | 69  | 60  | 53  | 66  | 58  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 47  |    |    |    | 47  |
| 4   | 75  | 61  | 51  | 43  | 73  | 60  | 50  | 42  | 57  | 48  | 42  | 54  | 47  | 41  | 52  | 46  | 40  | 38  |    |    |    | 38  |
| 5   | 68  | 53  | 43  | 35  | 66  | 52  | 42  | 35  | 50  | 41  | 34  | 48  | 40  | 34  | 46  | 39  | 34  | 31  |    |    |    | 31  |
| 6   | 63  | 47  | 37  | 30  | 60  | 46  | 37  | 29  | 44  | 36  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 26  |    |    |    | 26  |
| 7   | 58  | 42  | 32  | 25  | 56  | 41  | 32  | 25  | 40  | 31  | 25  | 38  | 31  | 25  | 37  | 30  | 25  | 22  |    |    |    | 22  |
| 8   | 53  | 38  | 29  | 22  | 52  | 37  | 28  | 22  | 36  | 28  | 22  | 35  | 27  | 22  | 33  | 27  | 22  | 19  |    |    |    | 19  |
| 9   | 50  | 35  | 26  | 20  | 48  | 34  | 26  | 20  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 17  |    |    |    | 17  |
| 10  | 46  | 32  | 23  | 18  | 45  | 31  | 23  | 18  | 30  | 23  | 17  | 29  | 22  | 17  | 28  | 22  | 17  | 15  |    |    |    | 15  |

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

|     | 0°     | 90°    | 180°  | 270°  |
|-----|--------|--------|-------|-------|
| 0°  | 39698  | 39698  | 39698 | 39698 |
| 5°  | 43615  | 38744  | 27784 | 30331 |
| 10° | 38632  | 34096  | 16852 | 18084 |
| 15° | 37618  | 32366  | 11930 | 12387 |
| 20° | 42892  | 37435  | 7804  | 8625  |
| 25° | 52259  | 47453  | 6814  | 7057  |
| 30° | 62967  | 57554  | 7067  | 6558  |
| 35° | 73435  | 67579  | 5855  | 5519  |
| 40° | 88244  | 81621  | 5470  | 5182  |
| 45° | 102694 | 93804  | 5536  | 5147  |
| 50° | 116058 | 106621 | 5662  | 5318  |
| 55° | 135348 | 127082 | 5864  | 5575  |
| 60° | 165080 | 160559 | 5845  | 5845  |
| 65° | 185523 | 185783 | 6001  | 6263  |
| 70° | 182327 | 188776 | 6288  | 6449  |
| 75° | 150401 | 160415 | 6604  | 7028  |
| 80° | 108595 | 113988 | 7302  | 7618  |
| 85° | 60096  | 64530  | 8225  | 10127 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 286.5   | 2.5       |
| 10°-20°   | 604.9   | 5.2       |
| 20°-30°   | 885.1   | 7.7       |
| 30°-40°   | 1247.0  | 10.8      |
| 40°-50°   | 1713.8  | 14.8      |
| 50°-60°   | 2335.7  | 20.2      |
| 60°-70°   | 2556.3  | 22.1      |
| 70°-80°   | 1475.9  | 12.8      |
| 80°-90°   | 442.0   | 3.8       |
| 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°    | 1776.5  | 15.4      |
| 0°-40°    | 3023.6  | 26.2      |
| 0°-60°    | 7073.1  | 61.3      |
| 0°-90°    | 11547.2 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11547.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3688 | 3688 | 3688 | 3688 | 3688 |      |
| 5°  | 4036 | 3586 | 2571 | 2807 | 4036 | 367  |
| 15° | 3376 | 2904 | 1071 | 1112 | 3376 | 986  |
| 25° | 4400 | 3996 | 574  | 594  | 4400 | 2060 |
| 35° | 5588 | 5143 | 446  | 420  | 5588 | 3544 |
| 45° | 6746 | 6162 | 364  | 338  | 6746 | 5185 |
| 55° | 7212 | 6772 | 312  | 297  | 7212 | 6508 |
| 65° | 7284 | 7294 | 236  | 246  | 7284 | 6972 |
| 75° | 3616 | 3857 | 159  | 169  | 3616 | 3885 |
| 85° | 487  | 522  | 67   | 82   | 487  | 675  |
| 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°    | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 |
| 2.5°  | 3949.4 | 3934.0 | 3949.4 | 4005.7 | 4021.1 | 4046.7 | 4046.7 | 4010.8 | 3944.2 | 3913.5 | 3862.3 |
| 5°    | 4036.5 | 4010.8 | 4138.9 | 4256.7 | 4348.9 | 4338.7 | 4251.6 | 4179.9 | 4046.7 | 3846.9 | 3657.4 |
| 7.5°  | 3862.3 | 3887.9 | 3980.1 | 4287.4 | 4502.6 | 4543.6 | 4405.3 | 4261.8 | 3975.0 | 3698.4 | 3442.3 |
| 10°   | 3534.5 | 3570.3 | 3770.1 | 4087.7 | 4425.8 | 4492.3 | 4405.3 | 4231.1 | 3887.9 | 3544.7 | 3247.6 |
| 12.5° | 3375.7 | 3457.6 | 3575.4 | 3959.6 | 4200.4 | 4359.2 | 4318.2 | 4205.5 | 3821.3 | 3416.6 | 3129.8 |
| 15°   | 3375.7 | 3396.2 | 3570.3 | 3893.0 | 4031.3 | 4036.5 | 4051.8 | 4072.3 | 3841.8 | 3473.0 | 3088.8 |
| 17.5° | 3483.2 | 3539.6 | 3688.1 | 3887.9 | 3913.5 | 3852.0 | 3852.0 | 3939.1 | 3882.8 | 3631.8 | 3237.4 |
| 20°   | 3744.5 | 3724.0 | 3918.6 | 4000.6 | 3862.3 | 3708.6 | 3693.2 | 3841.8 | 3928.9 | 3800.8 | 3508.8 |
| 22.5° | 4005.7 | 4097.9 | 4256.7 | 4072.3 | 3816.2 | 3611.3 | 3590.8 | 3775.2 | 4067.2 | 4092.8 | 3821.3 |
| 25°   | 4400.1 | 4492.3 | 4574.3 | 4348.9 | 3811.1 | 3585.7 | 3601.0 | 3744.5 | 4236.2 | 4507.7 | 4343.8 |
| 27.5° | 4825.3 | 4881.6 | 4999.5 | 4651.1 | 3934.0 | 3554.9 | 3570.3 | 3785.5 | 4395.0 | 4779.2 | 4753.6 |
| 30°   | 5066.1 | 5127.5 | 5101.9 | 4707.5 | 4016.0 | 3575.4 | 3534.5 | 3841.8 | 4307.9 | 4779.2 | 5020.0 |
| 32.5° | 5301.7 | 5265.8 | 5250.5 | 4799.7 | 4118.4 | 3703.5 | 3601.0 | 3959.6 | 4359.2 | 4856.0 | 5363.2 |
| 35°   | 5588.5 | 5537.3 | 5496.3 | 4979.0 | 4287.4 | 3826.4 | 3780.3 | 4113.3 | 4471.9 | 5014.8 | 5639.8 |
| 37.5° | 5906.1 | 5906.1 | 5706.4 | 5112.2 | 4487.2 | 4026.2 | 3975.0 | 4333.5 | 4651.1 | 5112.2 | 6018.8 |
| 40°   | 6280.1 | 6295.4 | 5942.0 | 5291.4 | 4712.6 | 4343.8 | 4328.4 | 4620.4 | 4825.3 | 5255.6 | 6382.5 |
| 42.5° | 6556.7 | 6566.9 | 6146.9 | 5358.0 | 4973.8 | 4784.3 | 4850.9 | 5081.4 | 5025.1 | 5383.6 | 6408.1 |
| 45°   | 6746.2 | 6695.0 | 6290.3 | 5547.6 | 5260.7 | 5445.1 | 5465.6 | 5532.2 | 5286.3 | 5460.5 | 6510.6 |
| 47.5° | 6838.4 | 6828.2 | 6351.8 | 5767.8 | 5865.1 | 6116.1 | 6234.0 | 6141.8 | 5527.1 | 5378.5 | 6510.6 |
| 50°   | 6930.6 | 6843.5 | 6408.1 | 6070.0 | 6454.2 | 6961.3 | 6935.7 | 6766.7 | 5860.0 | 5481.0 | 6413.2 |
| 52.5° | 6992.1 | 6915.2 | 6520.8 | 6341.5 | 7017.7 | 7591.4 | 7693.8 | 7381.4 | 6249.3 | 5670.5 | 6459.3 |
| 55°   | 7212.3 | 7150.9 | 6858.9 | 6710.3 | 7668.2 | 8257.3 | 8272.7 | 7837.3 | 6659.1 | 5983.0 | 6761.6 |
| 57.5° | 7478.7 | 7514.6 | 7325.0 | 7232.8 | 8165.1 | 8743.9 | 8687.6 | 8175.3 | 7007.4 | 6362.0 | 7109.9 |
| 60°   | 7668.2 | 7724.6 | 7678.5 | 7688.7 | 8411.0 | 8907.9 | 8779.8 | 8385.4 | 7263.6 | 6648.9 | 7535.0 |
| 62.5° | 7565.8 | 7678.5 | 7868.0 | 7827.0 | 8421.2 | 8790.0 | 8610.8 | 8108.8 | 7294.3 | 7022.8 | 7857.8 |
| 65°   | 7284.1 | 7294.3 | 7663.1 | 7888.5 | 7960.2 | 8180.5 | 7944.8 | 7529.9 | 6976.7 | 7253.3 | 7811.7 |
| 67.5° | 6561.8 | 6643.8 | 6976.7 | 7417.2 | 7115.0 | 7166.2 | 7145.7 | 6546.4 | 6495.2 | 7094.5 | 7458.2 |
| 70°   | 5793.4 | 5849.8 | 6213.5 | 6730.8 | 6008.6 | 5767.8 | 5813.9 | 5368.3 | 5578.3 | 6602.8 | 6746.2 |
| 72.5° | 4789.4 | 4825.3 | 5240.2 | 5696.1 | 4820.2 | 4389.9 | 4497.5 | 4133.8 | 4430.9 | 5778.1 | 5691.0 |
| 75°   | 3616.4 | 3683.0 | 4005.7 | 4543.6 | 3549.8 | 3273.2 | 3380.8 | 3232.2 | 3508.8 | 4758.7 | 4415.5 |
| 77.5° | 2571.4 | 2520.2 | 2919.8 | 3554.9 | 2668.8 | 2504.9 | 2515.1 | 2540.7 | 2837.8 | 4010.8 | 3170.8 |
| 80°   | 1751.9 | 1767.2 | 2125.8 | 2607.3 | 2095.1 | 2069.4 | 2043.8 | 2248.7 | 2381.9 | 3175.9 | 2305.1 |
| 82.5° | 1039.8 | 1039.8 | 1434.3 | 1854.3 | 1654.5 | 1864.6 | 1746.7 | 1931.1 | 1864.6 | 2335.8 | 1511.1 |
| 85°   | 486.6  | 486.6  | 737.6  | 1336.9 | 1280.6 | 1536.7 | 1306.2 | 1459.9 | 1377.9 | 1628.9 | 681.3  |
| 87.5° | 82.0   | 71.7   | 148.5  | 655.7  | 527.6  | 599.3  | 235.6  | 778.6  | 865.7  | 1137.2 | 169.0  |
| 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°    | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 |
| 2.5°  | 3805.9 | 3770.1 | 3698.4 | 3606.2 | 3529.3 | 3432.0 | 3401.3 | 3334.7 | 3242.5 | 3232.2 | 3191.3 |
| 5°    | 3585.7 | 3462.7 | 3309.1 | 3119.5 | 2991.5 | 2858.3 | 2745.6 | 2679.0 | 2602.2 | 2591.9 | 2571.4 |
| 7.5°  | 3344.9 | 3191.3 | 2935.1 | 2709.7 | 2489.5 | 2279.5 | 2177.0 | 2049.0 | 1961.9 | 1895.3 | 1864.6 |
| 10°   | 3119.5 | 2976.1 | 2658.5 | 2351.2 | 2156.5 | 2018.2 | 1895.3 | 1762.1 | 1654.5 | 1572.6 | 1541.8 |
| 12.5° | 2971.0 | 2802.0 | 2458.8 | 2166.8 | 2023.3 | 1864.6 | 1726.2 | 1582.8 | 1444.5 | 1336.9 | 1280.6 |
| 15°   | 2904.4 | 2745.6 | 2397.3 | 2074.6 | 1864.6 | 1644.3 | 1485.5 | 1342.1 | 1173.0 | 1096.2 | 1070.6 |
| 17.5° | 3063.2 | 2827.6 | 2376.8 | 1967.0 | 1669.9 | 1418.9 | 1224.3 | 1070.6 | 947.6  | 870.8  | 840.1  |
| 20°   | 3268.1 | 2976.1 | 2412.7 | 1838.9 | 1485.5 | 1203.8 | 988.6  | 824.7  | 742.7  | 686.4  | 681.3  |
| 22.5° | 3529.3 | 3196.4 | 2469.0 | 1746.7 | 1280.6 | 968.1  | 773.5  | 676.2  | 619.8  | 614.7  | 604.4  |
| 25°   | 3995.5 | 3595.9 | 2561.2 | 1623.8 | 1116.7 | 799.1  | 660.8  | 604.4  | 578.8  | 563.5  | 573.7  |
| 27.5° | 4395.0 | 3857.2 | 2627.8 | 1547.0 | 1050.1 | 753.0  | 640.3  | 578.8  | 553.2  | 548.1  | 553.2  |
| 30°   | 4630.6 | 4097.9 | 2607.3 | 1403.5 | 916.9  | 717.1  | 681.3  | 660.8  | 609.6  | 568.6  | 568.6  |
| 32.5° | 4845.8 | 4251.6 | 2602.2 | 1275.5 | 783.7  | 599.3  | 568.6  | 553.2  | 584.0  | 604.4  | 589.1  |
| 35°   | 5142.9 | 4492.3 | 2586.8 | 1203.8 | 727.4  | 553.2  | 502.0  | 461.0  | 440.5  | 430.3  | 445.6  |
| 37.5° | 5460.5 | 4656.3 | 2545.8 | 1193.5 | 696.6  | 527.6  | 486.6  | 445.6  | 425.2  | 414.9  | 409.8  |
| 40°   | 5808.8 | 4830.4 | 2499.7 | 1142.3 | 681.3  | 512.2  | 471.3  | 435.4  | 409.8  | 394.4  | 389.3  |
| 42.5° | 6034.2 | 4968.7 | 2453.6 | 1116.7 | 650.5  | 502.0  | 455.9  | 425.2  | 399.5  | 379.1  | 379.1  |
| 45°   | 6162.2 | 5132.6 | 2407.5 | 1091.1 | 614.7  | 507.1  | 455.9  | 414.9  | 384.2  | 373.9  | 363.7  |
| 47.5° | 6218.6 | 5255.6 | 2392.2 | 1050.1 | 584.0  | 486.6  | 445.6  | 404.7  | 373.9  | 353.4  | 348.3  |
| 50°   | 6367.1 | 5516.8 | 2448.5 | 1019.4 | 548.1  | 466.1  | 471.3  | 399.5  | 368.8  | 343.2  | 338.1  |
| 52.5° | 6454.2 | 5726.8 | 2571.4 | 973.3  | 522.5  | 440.5  | 461.0  | 389.3  | 353.4  | 327.8  | 327.8  |
| 55°   | 6771.8 | 6075.2 | 2704.6 | 937.4  | 491.8  | 404.7  | 425.2  | 368.8  | 327.8  | 312.5  | 312.5  |
| 57.5° | 7176.5 | 6444.0 | 2817.3 | 922.0  | 471.3  | 379.1  | 379.1  | 358.6  | 312.5  | 292.0  | 286.9  |
| 60°   | 7458.2 | 6746.2 | 2883.9 | 911.8  | 450.8  | 353.4  | 338.1  | 358.6  | 297.1  | 276.6  | 271.5  |
| 62.5° | 7488.9 | 6572.0 | 2817.3 | 906.7  | 445.6  | 327.8  | 307.3  | 343.2  | 281.7  | 261.2  | 251.0  |
| 65°   | 7294.3 | 6218.6 | 2632.9 | 886.2  | 440.5  | 302.2  | 286.9  | 297.1  | 261.2  | 245.9  | 235.6  |
| 67.5° | 6905.0 | 5644.9 | 2366.5 | 875.9  | 435.4  | 281.7  | 261.2  | 256.1  | 240.8  | 225.4  | 215.1  |
| 70°   | 5998.3 | 4897.0 | 2054.1 | 829.8  | 425.2  | 266.4  | 235.6  | 230.5  | 215.1  | 204.9  | 199.8  |
| 72.5° | 5035.3 | 4005.7 | 1695.5 | 768.4  | 404.7  | 240.8  | 215.1  | 204.9  | 199.8  | 184.4  | 179.3  |
| 75°   | 3857.2 | 3083.7 | 1357.4 | 681.3  | 353.4  | 215.1  | 189.5  | 179.3  | 174.2  | 163.9  | 158.8  |
| 77.5° | 2709.7 | 2294.8 | 1004.0 | 553.2  | 297.1  | 194.7  | 169.0  | 158.8  | 153.7  | 138.3  | 138.3  |
| 80°   | 1838.9 | 1608.4 | 681.3  | 384.2  | 230.5  | 158.8  | 148.5  | 138.3  | 128.1  | 117.8  | 117.8  |
| 82.5° | 1142.3 | 1126.9 | 491.8  | 251.0  | 169.0  | 128.1  | 117.8  | 117.8  | 102.4  | 92.2   | 92.2   |
| 85°   | 522.5  | 691.5  | 343.2  | 174.2  | 128.1  | 97.3   | 97.3   | 92.2   | 82.0   | 66.6   | 66.6   |
| 87.5° | 163.9  | 230.5  | 179.3  | 76.8   | 71.7   | 56.3   | 56.3   | 51.2   | 51.2   | 41.0   | 41.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P599066  
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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 |
| 2.5°  | 3232.2 | 3227.1 | 3227.1 | 3206.6 | 3257.8 | 3257.8 | 3288.6 | 3263.0 | 3278.3 | 3283.5 | 3324.4 |
| 5°    | 2566.3 | 2607.3 | 2638.0 | 2699.5 | 2735.4 | 2750.7 | 2750.7 | 2791.7 | 2776.3 | 2807.1 | 2868.5 |
| 7.5°  | 1879.9 | 1931.1 | 2023.3 | 2100.2 | 2161.7 | 2182.1 | 2177.0 | 2187.3 | 2202.6 | 2166.8 | 2177.0 |
| 10°   | 1521.4 | 1485.5 | 1516.2 | 1587.9 | 1644.3 | 1710.9 | 1659.7 | 1654.5 | 1669.9 | 1654.5 | 1685.3 |
| 12.5° | 1270.4 | 1229.4 | 1203.8 | 1203.8 | 1244.7 | 1275.5 | 1260.1 | 1285.7 | 1342.1 | 1357.4 | 1393.3 |
| 15°   | 1029.6 | 993.7  | 973.3  | 947.6  | 988.6  | 998.9  | 1014.2 | 1050.1 | 1091.1 | 1111.6 | 1152.5 |
| 17.5° | 824.7  | 824.7  | 824.7  | 804.2  | 819.6  | 835.0  | 840.1  | 886.2  | 891.3  | 911.8  | 927.2  |
| 20°   | 676.2  | 691.5  | 717.1  | 727.4  | 742.7  | 742.7  | 732.5  | 758.1  | 737.6  | 753.0  | 763.2  |
| 22.5° | 609.6  | 630.1  | 640.3  | 645.4  | 665.9  | 671.0  | 645.4  | 650.5  | 655.7  | 640.3  | 645.4  |
| 25°   | 573.7  | 584.0  | 573.7  | 578.8  | 584.0  | 573.7  | 578.8  | 589.1  | 584.0  | 594.2  | 589.1  |
| 27.5° | 558.3  | 548.1  | 543.0  | 537.9  | 537.9  | 527.6  | 532.7  | 532.7  | 543.0  | 548.1  | 548.1  |
| 30°   | 558.3  | 543.0  | 522.5  | 507.1  | 507.1  | 491.8  | 502.0  | 512.2  | 517.4  | 527.6  | 527.6  |
| 32.5° | 573.7  | 543.0  | 507.1  | 491.8  | 476.4  | 466.1  | 476.4  | 491.8  | 512.2  | 517.4  | 522.5  |
| 35°   | 455.9  | 471.3  | 466.1  | 445.6  | 440.5  | 440.5  | 435.4  | 435.4  | 420.0  | 420.0  | 414.9  |
| 37.5° | 409.8  | 404.7  | 414.9  | 420.0  | 425.2  | 409.8  | 409.8  | 389.3  | 384.2  | 389.3  | 389.3  |
| 40°   | 384.2  | 384.2  | 384.2  | 399.5  | 404.7  | 394.4  | 379.1  | 368.8  | 368.8  | 368.8  | 373.9  |
| 42.5° | 373.9  | 363.7  | 358.6  | 368.8  | 384.2  | 373.9  | 358.6  | 353.4  | 353.4  | 358.6  | 358.6  |
| 45°   | 358.6  | 353.4  | 348.3  | 343.2  | 363.7  | 348.3  | 343.2  | 338.1  | 338.1  | 338.1  | 343.2  |
| 47.5° | 343.2  | 338.1  | 327.8  | 327.8  | 333.0  | 327.8  | 322.7  | 322.7  | 322.7  | 333.0  | 333.0  |
| 50°   | 333.0  | 327.8  | 317.6  | 317.6  | 317.6  | 317.6  | 312.5  | 312.5  | 312.5  | 317.6  | 322.7  |
| 52.5° | 317.6  | 312.5  | 307.3  | 302.2  | 302.2  | 302.2  | 302.2  | 302.2  | 302.2  | 307.3  | 312.5  |
| 55°   | 302.2  | 297.1  | 292.0  | 292.0  | 297.1  | 297.1  | 292.0  | 297.1  | 292.0  | 297.1  | 302.2  |
| 57.5° | 286.9  | 281.7  | 276.6  | 281.7  | 286.9  | 281.7  | 281.7  | 281.7  | 281.7  | 281.7  | 286.9  |
| 60°   | 266.4  | 266.4  | 266.4  | 266.4  | 276.6  | 276.6  | 276.6  | 276.6  | 266.4  | 271.5  | 276.6  |
| 62.5° | 256.1  | 251.0  | 251.0  | 256.1  | 261.2  | 261.2  | 266.4  | 261.2  | 256.1  | 261.2  | 261.2  |
| 65°   | 235.6  | 235.6  | 235.6  | 240.8  | 240.8  | 245.9  | 245.9  | 245.9  | 240.8  | 245.9  | 245.9  |
| 67.5° | 220.3  | 220.3  | 220.3  | 220.3  | 230.5  | 230.5  | 230.5  | 230.5  | 225.4  | 225.4  | 230.5  |
| 70°   | 194.7  | 199.8  | 194.7  | 204.9  | 215.1  | 210.0  | 215.1  | 215.1  | 210.0  | 204.9  | 215.1  |
| 72.5° | 179.3  | 179.3  | 179.3  | 179.3  | 194.7  | 194.7  | 194.7  | 199.8  | 194.7  | 189.5  | 194.7  |
| 75°   | 158.8  | 158.8  | 158.8  | 163.9  | 174.2  | 174.2  | 174.2  | 174.2  | 174.2  | 169.0  | 169.0  |
| 77.5° | 138.3  | 143.4  | 138.3  | 143.4  | 153.7  | 148.5  | 153.7  | 158.8  | 153.7  | 148.5  | 148.5  |
| 80°   | 117.8  | 117.8  | 117.8  | 122.9  | 128.1  | 128.1  | 128.1  | 133.2  | 128.1  | 122.9  | 122.9  |
| 82.5° | 92.2   | 92.2   | 97.3   | 97.3   | 102.4  | 102.4  | 102.4  | 107.6  | 102.4  | 97.3   | 97.3   |
| 85°   | 71.7   | 71.7   | 71.7   | 76.8   | 76.8   | 82.0   | 82.0   | 87.1   | 87.1   | 82.0   | 82.0   |
| 87.5° | 46.1   | 41.0   | 46.1   | 46.1   | 51.2   | 51.2   | 46.1   | 41.0   | 46.1   | 41.0   | 35.9   |
| 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):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 | 3688.1 |
| 2.5°  | 3365.4 | 3457.6 | 3524.2 | 3570.3 | 3636.9 | 3765.0 | 3816.2 | 3908.4 | 3934.0 | 3949.4 |
| 5°    | 2894.2 | 2991.5 | 3134.9 | 3237.4 | 3355.2 | 3595.9 | 3780.3 | 3918.6 | 3980.1 | 4036.5 |
| 7.5°  | 2269.2 | 2397.3 | 2545.8 | 2679.0 | 2873.7 | 3170.8 | 3411.5 | 3698.4 | 3805.9 | 3862.3 |
| 10°   | 1772.4 | 1890.2 | 2054.1 | 2218.0 | 2489.5 | 2740.5 | 3083.7 | 3344.9 | 3493.5 | 3534.5 |
| 12.5° | 1495.7 | 1634.0 | 1828.7 | 2028.5 | 2197.5 | 2484.4 | 2832.7 | 3211.7 | 3350.0 | 3375.7 |
| 15°   | 1270.4 | 1459.9 | 1659.7 | 1864.6 | 2059.2 | 2310.2 | 2684.1 | 3145.2 | 3350.0 | 3375.7 |
| 17.5° | 1050.1 | 1219.1 | 1454.8 | 1675.0 | 1900.4 | 2243.6 | 2709.7 | 3201.5 | 3406.4 | 3483.2 |
| 20°   | 835.0  | 998.9  | 1183.3 | 1459.9 | 1767.2 | 2130.9 | 2766.1 | 3391.0 | 3662.5 | 3744.5 |
| 22.5° | 691.5  | 763.2  | 942.5  | 1208.9 | 1572.6 | 2054.1 | 2822.4 | 3688.1 | 3975.0 | 4005.7 |
| 25°   | 604.4  | 655.7  | 768.4  | 1019.4 | 1418.9 | 2002.9 | 2955.6 | 4031.3 | 4400.1 | 4400.1 |
| 27.5° | 563.5  | 584.0  | 660.8  | 886.2  | 1311.3 | 1956.8 | 3088.8 | 4410.4 | 4753.6 | 4825.3 |
| 30°   | 553.2  | 604.4  | 645.4  | 788.8  | 1193.5 | 1828.7 | 3211.7 | 4707.5 | 5060.9 | 5066.1 |
| 32.5° | 543.0  | 532.7  | 563.5  | 686.4  | 1050.1 | 1695.5 | 3314.2 | 5009.7 | 5286.3 | 5301.7 |
| 35°   | 425.2  | 445.6  | 496.9  | 604.4  | 942.5  | 1598.2 | 3365.4 | 5173.6 | 5573.2 | 5588.5 |
| 37.5° | 399.5  | 425.2  | 466.1  | 558.3  | 870.8  | 1516.2 | 3380.8 | 5491.2 | 5875.4 | 5906.1 |
| 40°   | 389.3  | 409.8  | 440.5  | 517.4  | 814.5  | 1413.8 | 3411.5 | 5819.0 | 6321.0 | 6280.1 |
| 42.5° | 368.8  | 394.4  | 425.2  | 496.9  | 768.4  | 1336.9 | 3416.6 | 5998.3 | 6556.7 | 6556.7 |
| 45°   | 363.7  | 379.1  | 414.9  | 496.9  | 717.1  | 1270.4 | 3334.7 | 6177.6 | 6828.2 | 6746.2 |
| 47.5° | 343.2  | 373.9  | 404.7  | 481.5  | 655.7  | 1203.8 | 3237.4 | 6269.8 | 6864.0 | 6838.4 |
| 50°   | 338.1  | 368.8  | 420.0  | 455.9  | 619.8  | 1173.0 | 3216.9 | 6500.3 | 6935.7 | 6930.6 |
| 52.5° | 327.8  | 358.6  | 435.4  | 435.4  | 573.7  | 1132.1 | 3314.2 | 6602.8 | 6951.1 | 6992.1 |
| 55°   | 312.5  | 358.6  | 404.7  | 399.5  | 532.7  | 1080.8 | 3421.8 | 6869.1 | 7222.6 | 7212.3 |
| 57.5° | 302.2  | 348.3  | 384.2  | 363.7  | 486.6  | 1045.0 | 3580.6 | 7125.3 | 7550.4 | 7478.7 |
| 60°   | 286.9  | 348.3  | 343.2  | 338.1  | 450.8  | 1014.2 | 3713.7 | 7176.5 | 7622.1 | 7668.2 |
| 62.5° | 276.6  | 363.7  | 302.2  | 312.5  | 420.0  | 998.9  | 3657.4 | 6792.3 | 7524.8 | 7565.8 |
| 65°   | 266.4  | 312.5  | 276.6  | 286.9  | 409.8  | 968.1  | 3437.1 | 6331.3 | 7104.8 | 7284.1 |
| 67.5° | 245.9  | 256.1  | 256.1  | 266.4  | 399.5  | 896.4  | 2986.4 | 5501.5 | 6464.5 | 6561.8 |
| 70°   | 225.4  | 230.5  | 230.5  | 245.9  | 389.3  | 814.5  | 2463.9 | 4758.7 | 5609.0 | 5793.4 |
| 72.5° | 204.9  | 204.9  | 204.9  | 225.4  | 358.6  | 747.9  | 2028.5 | 3657.4 | 4661.4 | 4789.4 |
| 75°   | 179.3  | 179.3  | 179.3  | 199.8  | 322.7  | 681.3  | 1598.2 | 2720.0 | 3432.0 | 3616.4 |
| 77.5° | 158.8  | 158.8  | 153.7  | 179.3  | 281.7  | 553.2  | 1152.5 | 1920.9 | 2417.8 | 2571.4 |
| 80°   | 133.2  | 128.1  | 128.1  | 143.4  | 220.3  | 399.5  | 742.7  | 1357.4 | 1685.3 | 1751.9 |
| 82.5° | 107.6  | 102.4  | 97.3   | 107.6  | 158.8  | 251.0  | 461.0  | 947.6  | 1080.8 | 1039.8 |
| 85°   | 102.4  | 107.6  | 87.1   | 82.0   | 112.7  | 163.9  | 292.0  | 584.0  | 486.6  | 486.6  |
| 87.5° | 41.0   | 35.9   | 35.9   | 30.7   | 56.3   | 61.5   | 128.1  | 107.6  | 82.0   | 82.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)