

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: P599117

Luminaire Tested: **IFLD-S-SA3D-722-U-SLR-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P599117  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/04/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-S-SA3D-722-U-SLR-HSS  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLR distribution lens with House Side Shield  
 Light Source: (48) 2200K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

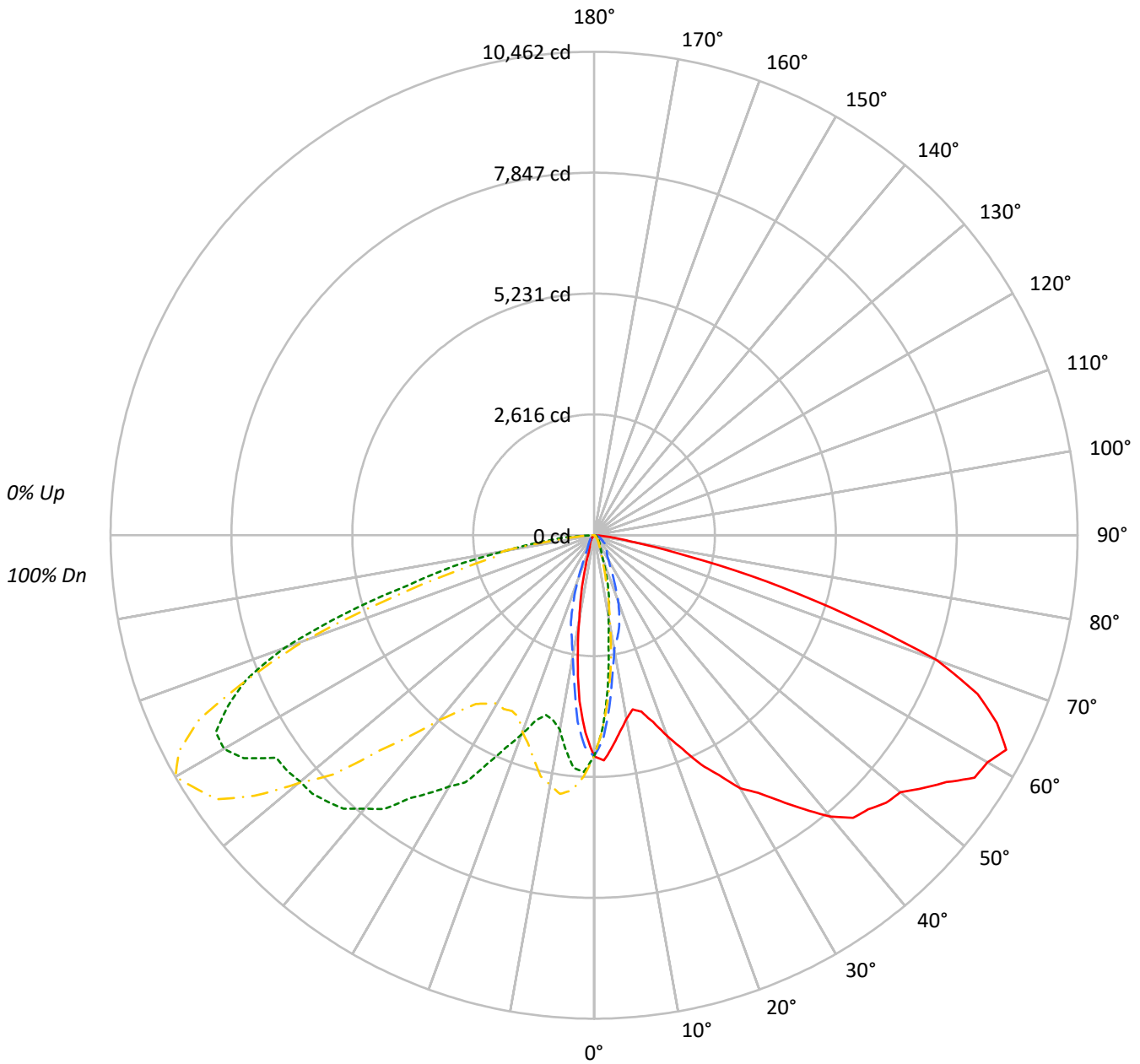
Lumens per Lamp: N/A  
 Luminaire Lumens: 12505.4 lumens  
 Efficiency: N/A  
 Efficacy: 67.9 lumens/watt  
 Spacing Criteria (0/90/45): 0.44 / 0.52 / 0.65  
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 184.1  
 Input Voltage (V): 120  
 Input Current (A<sub>in</sub>): 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 107 | 101 | 96  | 91  | 104 | 99  | 94  | 90  | 94  | 90  | 87  | 90  | 87  | 84  | 87  | 84  | 82  | 79  |
| 2   | 95  | 85  | 77  | 70  | 92  | 83  | 75  | 69  | 79  | 73  | 67  | 76  | 71  | 66  | 73  | 68  | 64  | 62  |
| 3   | 85  | 72  | 63  | 55  | 82  | 71  | 62  | 54  | 67  | 60  | 53  | 65  | 58  | 52  | 62  | 56  | 51  | 49  |
| 4   | 76  | 62  | 52  | 44  | 74  | 61  | 51  | 44  | 58  | 50  | 43  | 56  | 49  | 43  | 53  | 47  | 42  | 40  |
| 5   | 69  | 55  | 44  | 37  | 67  | 53  | 44  | 36  | 51  | 43  | 36  | 49  | 41  | 35  | 47  | 40  | 35  | 33  |
| 6   | 63  | 48  | 38  | 31  | 61  | 47  | 38  | 31  | 45  | 37  | 30  | 44  | 36  | 30  | 42  | 35  | 30  | 27  |
| 7   | 58  | 43  | 33  | 27  | 56  | 42  | 33  | 26  | 41  | 32  | 26  | 39  | 32  | 26  | 38  | 31  | 26  | 24  |
| 8   | 54  | 39  | 30  | 23  | 52  | 38  | 29  | 23  | 37  | 29  | 23  | 36  | 28  | 23  | 34  | 28  | 23  | 20  |
| 9   | 50  | 36  | 27  | 21  | 49  | 35  | 26  | 21  | 34  | 26  | 20  | 33  | 25  | 20  | 32  | 25  | 20  | 18  |
| 10  | 47  | 33  | 24  | 18  | 46  | 32  | 24  | 18  | 31  | 24  | 18  | 30  | 23  | 18  | 29  | 23  | 18  | 16  |

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

|     | 0°     | 90°   | 180°  | 270°   |
|-----|--------|-------|-------|--------|
| 0°  | 68614  | 68614 | 68614 | 68614  |
| 5°  | 66059  | 48281 | 51972 | 72810  |
| 10° | 58813  | 26287 | 26631 | 62253  |
| 15° | 58711  | 17533 | 10720 | 59813  |
| 20° | 70494  | 8754  | 4273  | 70081  |
| 25° | 86704  | 5500  | 3310  | 86278  |
| 30° | 104762 | 4413  | 2514  | 104091 |
| 35° | 122925 | 3544  | 1950  | 121685 |
| 40° | 148818 | 3031  | 1263  | 144711 |
| 45° | 170254 | 2738  | 684   | 165533 |
| 50° | 193163 | 2635  | 150   | 185259 |
| 55° | 233005 | 2530  | 0     | 210060 |
| 60° | 282098 | 2130  | 0     | 265358 |
| 65° | 326653 | 1718  | 0     | 296884 |
| 70° | 330771 | 1414  | 0     | 299362 |
| 75° | 214065 | 937   | 0     | 229580 |
| 80° | 73004  | 281   | 0     | 162455 |
| 85° | 36639  | 0     | 0     | 119369 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.1   | 2.9       |
| 10°-20°   | 701.3   | 5.6       |
| 20°-30°   | 976.7   | 7.8       |
| 30°-40°   | 1387.7  | 11.1      |
| 40°-50°   | 1924.4  | 15.4      |
| 50°-60°   | 2622.1  | 21.0      |
| 60°-70°   | 2882.8  | 23.1      |
| 70°-80°   | 1416.9  | 11.3      |
| 80°-90°   | 231.4   | 1.9       |
| 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°    | 2040.1  | 16.3      |
| 0°-40°    | 3427.8  | 27.4      |
| 0°-60°    | 7974.3  | 63.8      |
| 0°-90°    | 12505.4 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 12505.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4781 | 4781 | 4781 | 4781 | 4781 |      |
| 5°  | 4585 | 3351 | 3608 | 5054 | 4585 | 420  |
| 15° | 3951 | 1180 | 722  | 4026 | 3951 | 1170 |
| 25° | 5475 | 347  | 209  | 5448 | 5475 | 2546 |
| 35° | 7016 | 202  | 111  | 6945 | 7016 | 4454 |
| 45° | 8388 | 135  | 34   | 8156 | 8388 | 6502 |
| 55° | 9312 | 101  | 0    | 8395 | 9312 | 8377 |
| 65° | 9619 | 51   | 0    | 8742 | 9619 | 9296 |
| 75° | 3860 | 17   | 0    | 4140 | 3860 | 4209 |
| 85° | 222  | 0    | 0    | 725  | 222  | 308  |
| 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°    | 4780.8  | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 |
| 2.5°  | 4878.6  | 4935.9 | 4881.9 | 4693.1 | 4659.4 | 4568.4 | 4430.2 | 4420.0 | 4275.1 | 4291.9 | 4214.4 |
| 5°    | 4585.3  | 4642.6 | 4527.9 | 4278.4 | 4045.8 | 3860.4 | 3749.1 | 3550.2 | 3506.4 | 3408.6 | 3408.6 |
| 7.5°  | 4285.2  | 4281.8 | 4086.3 | 3877.2 | 3530.0 | 3189.4 | 3034.4 | 2747.8 | 2579.2 | 2488.2 | 2400.5 |
| 10°   | 4035.7  | 3981.8 | 3860.4 | 3428.8 | 3051.2 | 2697.2 | 2505.0 | 2316.2 | 2140.9 | 1989.2 | 1837.5 |
| 12.5° | 3860.4  | 3894.1 | 3701.9 | 3233.3 | 2744.4 | 2498.3 | 2292.6 | 2093.7 | 1884.7 | 1712.7 | 1544.2 |
| 15°   | 3951.4  | 3897.5 | 3671.6 | 3189.4 | 2693.8 | 2356.7 | 2083.6 | 1840.8 | 1608.2 | 1382.3 | 1254.2 |
| 17.5° | 4234.6  | 4096.4 | 3830.0 | 3189.4 | 2589.3 | 2140.9 | 1810.5 | 1523.9 | 1274.4 | 1072.1 | 913.7  |
| 20°   | 4615.6  | 4457.1 | 4170.6 | 3307.4 | 2511.8 | 1982.4 | 1530.7 | 1169.9 | 910.3  | 721.5  | 600.1  |
| 22.5° | 5006.7  | 4881.9 | 4450.4 | 3354.7 | 2420.7 | 1770.0 | 1207.0 | 846.2  | 606.9  | 485.5  | 424.8  |
| 25°   | 5475.3  | 5300.0 | 4828.0 | 3543.5 | 2285.9 | 1564.4 | 950.8  | 590.0  | 451.8  | 387.7  | 350.6  |
| 27.5° | 5849.6  | 5819.2 | 5182.0 | 3658.1 | 2184.7 | 1395.8 | 751.8  | 468.6  | 374.2  | 327.0  | 303.4  |
| 30°   | 6321.6  | 6156.4 | 5613.6 | 3887.3 | 2070.1 | 1203.6 | 627.1  | 421.4  | 343.9  | 293.3  | 276.5  |
| 32.5° | 6604.8  | 6527.2 | 5839.5 | 4015.5 | 1942.0 | 1045.2 | 539.4  | 370.9  | 313.6  | 276.5  | 259.6  |
| 35°   | 7016.1  | 6861.0 | 6163.1 | 4096.4 | 1874.6 | 954.1  | 485.5  | 337.2  | 263.0  | 225.9  | 205.7  |
| 37.5° | 7474.6  | 7417.3 | 6550.8 | 4093.0 | 1776.8 | 900.2  | 448.4  | 313.6  | 249.5  | 209.0  | 185.4  |
| 40°   | 7943.3  | 7710.6 | 6786.8 | 4187.4 | 1726.2 | 859.7  | 421.4  | 300.1  | 236.0  | 198.9  | 168.6  |
| 42.5° | 8293.9  | 8027.6 | 7059.9 | 4153.7 | 1665.5 | 788.9  | 411.3  | 279.8  | 225.9  | 182.1  | 155.1  |
| 45°   | 8388.3  | 8293.9 | 7306.1 | 4143.6 | 1621.7 | 731.6  | 394.5  | 276.5  | 219.1  | 171.9  | 145.0  |
| 47.5° | 8570.4  | 8506.3 | 7609.5 | 4160.4 | 1588.0 | 687.8  | 354.0  | 283.2  | 209.0  | 161.8  | 138.2  |
| 50°   | 8651.3  | 8536.7 | 7855.6 | 4200.9 | 1510.4 | 633.8  | 316.9  | 296.7  | 205.7  | 158.5  | 131.5  |
| 52.5° | 8985.1  | 8883.9 | 8192.8 | 4315.5 | 1446.4 | 563.0  | 279.8  | 283.2  | 212.4  | 148.3  | 124.7  |
| 55°   | 9312.1  | 9197.5 | 8712.0 | 4578.5 | 1355.3 | 505.7  | 239.4  | 249.5  | 202.3  | 134.9  | 111.3  |
| 57.5° | 9760.5  | 9571.7 | 9059.2 | 4686.4 | 1274.4 | 428.2  | 212.4  | 205.7  | 188.8  | 121.4  | 97.8   |
| 60°   | 9827.9  | 9905.5 | 9008.7 | 4619.0 | 1190.1 | 377.6  | 185.4  | 158.5  | 202.3  | 107.9  | 84.3   |
| 62.5° | 10053.8 | 9730.2 | 8772.7 | 4463.9 | 1129.5 | 347.3  | 165.2  | 131.5  | 175.3  | 94.4   | 70.8   |
| 65°   | 9618.9  | 9379.5 | 8219.7 | 3964.9 | 1051.9 | 350.6  | 145.0  | 107.9  | 111.3  | 77.5   | 57.3   |
| 67.5° | 8981.7  | 8792.9 | 7302.7 | 3422.1 | 974.4  | 343.9  | 128.1  | 94.4   | 84.3   | 67.4   | 50.6   |
| 70°   | 7882.6  | 7474.6 | 6203.6 | 2778.1 | 859.7  | 320.3  | 107.9  | 84.3   | 70.8   | 53.9   | 37.1   |
| 72.5° | 5734.9  | 5569.7 | 4450.4 | 2147.7 | 772.1  | 289.9  | 101.1  | 70.8   | 60.7   | 40.5   | 30.3   |
| 75°   | 3860.4  | 3587.3 | 2808.5 | 1409.3 | 620.4  | 252.9  | 84.3   | 64.1   | 47.2   | 30.3   | 23.6   |
| 77.5° | 2039.8  | 1928.5 | 1591.4 | 670.9  | 343.9  | 118.0  | 47.2   | 37.1   | 27.0   | 23.6   | 13.5   |
| 80°   | 883.3   | 785.6  | 687.8  | 273.1  | 121.4  | 53.9   | 30.3   | 20.2   | 16.9   | 13.5   | 6.7    |
| 82.5° | 451.8   | 431.6  | 357.4  | 118.0  | 70.8   | 40.5   | 16.9   | 13.5   | 10.1   | 6.7    | 3.4    |
| 85°   | 222.5   | 229.3  | 188.8  | 37.1   | 40.5   | 23.6   | 3.4    | 3.4    | 0.0    | 0.0    | 0.0    |
| 87.5° | 16.9    | 16.9   | 13.5   | 6.7    | 10.1   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 |
| 2.5°  | 4184.0 | 4231.2 | 4150.3 | 4200.9 | 4177.3 | 4187.4 | 4197.5 | 4170.6 | 4177.3 | 4271.7 | 4275.1 |
| 5°    | 3351.3 | 3442.3 | 3408.6 | 3455.8 | 3536.7 | 3496.3 | 3533.3 | 3526.6 | 3533.3 | 3546.8 | 3607.5 |
| 7.5°  | 2390.4 | 2363.4 | 2427.5 | 2552.2 | 2697.2 | 2784.9 | 2741.0 | 2717.4 | 2703.9 | 2670.2 | 2710.7 |
| 10°   | 1803.8 | 1790.3 | 1773.4 | 1810.5 | 1904.9 | 2002.7 | 2056.6 | 1965.6 | 1915.0 | 1851.0 | 1827.4 |
| 12.5° | 1496.9 | 1412.7 | 1365.5 | 1308.1 | 1335.1 | 1422.8 | 1426.1 | 1338.5 | 1257.6 | 1223.9 | 1260.9 |
| 15°   | 1180.0 | 1122.7 | 1038.4 | 957.5  | 917.1  | 984.5  | 927.2  | 842.9  | 738.4  | 724.9  | 721.5  |
| 17.5° | 842.9  | 809.2  | 748.5  | 714.8  | 667.6  | 650.7  | 590.0  | 461.9  | 387.7  | 367.5  | 374.2  |
| 20°   | 573.2  | 546.2  | 542.8  | 512.5  | 492.2  | 478.8  | 381.0  | 296.7  | 273.1  | 276.5  | 279.8  |
| 22.5° | 424.8  | 411.3  | 394.5  | 391.1  | 374.2  | 357.4  | 279.8  | 249.5  | 232.6  | 232.6  | 242.7  |
| 25°   | 347.3  | 340.5  | 323.7  | 316.9  | 310.2  | 286.6  | 236.0  | 212.4  | 205.7  | 198.9  | 209.0  |
| 27.5° | 296.7  | 293.3  | 283.2  | 273.1  | 266.3  | 242.7  | 205.7  | 185.4  | 178.7  | 178.7  | 178.7  |
| 30°   | 266.3  | 266.3  | 252.9  | 232.6  | 232.6  | 205.7  | 175.3  | 161.8  | 155.1  | 155.1  | 151.7  |
| 32.5° | 249.5  | 242.7  | 225.9  | 212.4  | 202.3  | 175.3  | 155.1  | 141.6  | 131.5  | 131.5  | 134.9  |
| 35°   | 202.3  | 202.3  | 198.9  | 188.8  | 175.3  | 148.3  | 131.5  | 118.0  | 111.3  | 107.9  | 111.3  |
| 37.5° | 178.7  | 168.6  | 155.1  | 158.5  | 151.7  | 128.1  | 111.3  | 101.1  | 91.0   | 91.0   | 91.0   |
| 40°   | 161.8  | 151.7  | 138.2  | 128.1  | 124.7  | 114.6  | 97.8   | 80.9   | 70.8   | 67.4   | 67.4   |
| 42.5° | 145.0  | 138.2  | 118.0  | 101.1  | 97.8   | 97.8   | 74.2   | 60.7   | 50.6   | 50.6   | 50.6   |
| 45°   | 134.9  | 124.7  | 107.9  | 87.7   | 70.8   | 74.2   | 60.7   | 43.8   | 37.1   | 33.7   | 33.7   |
| 47.5° | 128.1  | 118.0  | 94.4   | 74.2   | 53.9   | 53.9   | 43.8   | 30.3   | 23.6   | 20.2   | 20.2   |
| 50°   | 118.0  | 107.9  | 84.3   | 60.7   | 40.5   | 33.7   | 27.0   | 16.9   | 10.1   | 6.7    | 6.7    |
| 52.5° | 111.3  | 101.1  | 74.2   | 50.6   | 33.7   | 23.6   | 16.9   | 3.4    | 0.0    | 0.0    | 0.0    |
| 55°   | 101.1  | 87.7   | 64.1   | 40.5   | 27.0   | 13.5   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 87.7   | 77.5   | 50.6   | 30.3   | 16.9   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 74.2   | 64.1   | 40.5   | 23.6   | 6.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 60.7   | 53.9   | 30.3   | 13.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 50.6   | 40.5   | 23.6   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 43.8   | 33.7   | 16.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 33.7   | 23.6   | 10.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 23.6   | 16.9   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 16.9   | 10.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 10.1   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 3.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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: P599117  
 CATALOG NUMBER: IFLD-S-SA3D-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 | 4780.8 |
| 2.5°  | 4288.6 | 4389.7 | 4484.1 | 4511.1 | 4585.3 | 4790.9 | 4790.9 | 4888.7 | 5064.0 | 5128.1 | 5141.6 |
| 5°    | 3617.6 | 3725.5 | 3745.7 | 3954.8 | 4052.6 | 4261.6 | 4399.8 | 4730.2 | 4929.1 | 5053.9 | 5131.4 |
| 7.5°  | 2751.2 | 2788.2 | 2865.8 | 3061.3 | 3253.5 | 3506.4 | 3769.3 | 4190.8 | 4541.4 | 4683.0 | 4946.0 |
| 10°   | 1891.4 | 2002.7 | 2171.3 | 2346.6 | 2646.6 | 2926.5 | 3267.0 | 3664.8 | 4096.4 | 4271.7 | 4497.6 |
| 12.5° | 1274.4 | 1429.5 | 1699.2 | 1948.7 | 2225.2 | 2508.4 | 2832.1 | 3364.8 | 3853.6 | 4096.4 | 4322.3 |
| 15°   | 745.1  | 933.9  | 1166.5 | 1571.1 | 1938.6 | 2255.5 | 2579.2 | 3118.6 | 3712.0 | 4025.6 | 4302.0 |
| 17.5° | 377.6  | 434.9  | 627.1  | 977.7  | 1463.2 | 1982.4 | 2464.6 | 3152.4 | 3819.9 | 4204.3 | 4433.5 |
| 20°   | 283.2  | 300.1  | 354.0  | 519.2  | 1001.3 | 1638.6 | 2356.7 | 3202.9 | 4120.0 | 4588.6 | 4713.4 |
| 22.5° | 246.1  | 259.6  | 283.2  | 337.2  | 563.0  | 1254.2 | 2205.0 | 3327.7 | 4527.9 | 4969.6 | 5232.6 |
| 25°   | 209.0  | 222.5  | 242.7  | 276.5  | 360.8  | 853.0  | 2019.5 | 3459.2 | 4892.1 | 5448.4 | 5694.5 |
| 27.5° | 182.1  | 192.2  | 212.4  | 239.4  | 293.3  | 542.8  | 1699.2 | 3634.5 | 5448.4 | 6028.3 | 6092.3 |
| 30°   | 155.1  | 165.2  | 182.1  | 212.4  | 249.5  | 384.4  | 1247.5 | 3658.1 | 5755.2 | 6281.1 | 6459.8 |
| 32.5° | 134.9  | 138.2  | 158.5  | 185.4  | 209.0  | 303.4  | 876.6  | 3681.7 | 5981.1 | 6608.2 | 6645.2 |
| 35°   | 111.3  | 118.0  | 138.2  | 155.1  | 182.1  | 239.4  | 664.2  | 3563.7 | 6274.4 | 6945.3 | 6935.2 |
| 37.5° | 91.0   | 101.1  | 114.6  | 128.1  | 148.3  | 202.3  | 529.3  | 3344.5 | 6641.9 | 7467.9 | 7151.0 |
| 40°   | 70.8   | 80.9   | 94.4   | 111.3  | 124.7  | 182.1  | 397.8  | 3014.1 | 7026.2 | 7724.1 | 7387.0 |
| 42.5° | 50.6   | 57.3   | 70.8   | 87.7   | 111.3  | 151.7  | 286.6  | 2623.0 | 7177.9 | 8024.2 | 7670.2 |
| 45°   | 37.1   | 43.8   | 53.9   | 74.2   | 114.6  | 121.4  | 198.9  | 2265.7 | 7339.8 | 8155.7 | 7606.1 |
| 47.5° | 20.2   | 27.0   | 40.5   | 64.1   | 101.1  | 91.0   | 141.6  | 1945.4 | 7525.2 | 8273.7 | 7656.7 |
| 50°   | 6.7    | 10.1   | 23.6   | 67.4   | 80.9   | 70.8   | 111.3  | 1773.4 | 7707.3 | 8297.3 | 7757.8 |
| 52.5° | 0.0    | 0.0    | 13.5   | 70.8   | 60.7   | 53.9   | 97.8   | 1706.0 | 7660.1 | 8371.5 | 7693.8 |
| 55°   | 0.0    | 0.0    | 3.4    | 30.3   | 33.7   | 40.5   | 80.9   | 1702.6 | 7993.8 | 8395.1 | 8044.4 |
| 57.5° | 0.0    | 0.0    | 0.0    | 10.1   | 20.2   | 33.7   | 70.8   | 1594.7 | 8206.3 | 8981.7 | 8516.4 |
| 60°   | 0.0    | 0.0    | 0.0    | 3.4    | 13.5   | 23.6   | 53.9   | 1500.3 | 8422.0 | 9244.7 | 9022.2 |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 3.4    | 10.1   | 37.1   | 1355.3 | 7987.1 | 9224.4 | 9511.0 |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 23.6   | 1072.1 | 7184.7 | 8742.3 | 9241.3 |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 13.5   | 741.7  | 6291.2 | 8135.4 | 8745.7 |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 448.4  | 5077.5 | 7134.1 | 7417.3 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 192.2  | 3624.4 | 5664.1 | 6085.6 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 77.5   | 2242.1 | 4140.2 | 4659.4 |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 30.3   | 1453.1 | 3135.5 | 3536.7 |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.7    | 775.4  | 1965.6 | 2285.9 |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 337.2  | 1193.5 | 1375.6 |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 107.9  | 724.9  | 826.0  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 111.3  | 148.3  |
| 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°    | 4780.8 | 4780.8 | 4780.8  | 4780.8  | 4780.8  | 4780.8 | 4780.8  | 4780.8  | 4780.8  | 4780.8  |
| 2.5°  | 5148.3 | 5246.1 | 5283.2  | 5225.8  | 5232.6  | 5114.6 | 5097.7  | 4932.5  | 4865.1  | 4878.6  |
| 5°    | 5384.3 | 5525.9 | 5603.4  | 5539.4  | 5394.4  | 5168.5 | 4962.9  | 4767.3  | 4645.9  | 4585.3  |
| 7.5°  | 5330.4 | 5488.8 | 5586.6  | 5647.3  | 5482.1  | 5117.9 | 4804.4  | 4436.9  | 4281.8  | 4285.2  |
| 10°   | 5033.7 | 5364.1 | 5563.0  | 5485.4  | 5407.9  | 5043.8 | 4558.3  | 4160.4  | 4022.2  | 4035.7  |
| 12.5° | 4794.3 | 5161.8 | 5279.8  | 5340.5  | 5182.0  | 4892.1 | 4565.0  | 4109.9  | 3954.8  | 3860.4  |
| 15°   | 4645.9 | 4919.0 | 4925.8  | 5020.2  | 4956.1  | 4956.1 | 4635.8  | 4190.8  | 4055.9  | 3951.4  |
| 17.5° | 4645.9 | 4706.6 | 4699.9  | 4733.6  | 4841.5  | 4969.6 | 4814.5  | 4517.8  | 4251.5  | 4234.6  |
| 20°   | 4750.5 | 4561.7 | 4517.8  | 4531.3  | 4622.3  | 5003.3 | 5209.0  | 4838.1  | 4669.5  | 4615.6  |
| 22.5° | 4993.2 | 4578.5 | 4312.2  | 4265.0  | 4544.8  | 4999.9 | 5461.8  | 5343.8  | 5050.5  | 5006.7  |
| 25°   | 5327.0 | 4548.2 | 4258.2  | 4197.5  | 4409.9  | 5121.3 | 5809.1  | 5832.7  | 5566.4  | 5475.3  |
| 27.5° | 5643.9 | 4683.0 | 4251.5  | 4238.0  | 4517.8  | 5094.3 | 6048.5  | 6223.8  | 5923.7  | 5849.6  |
| 30°   | 5751.8 | 4817.9 | 4376.2  | 4197.5  | 4558.3  | 5192.1 | 6041.7  | 6500.3  | 6304.7  | 6321.6  |
| 32.5° | 5879.9 | 4952.7 | 4389.7  | 4318.9  | 4730.2  | 5350.6 | 6233.9  | 6945.3  | 6803.7  | 6604.8  |
| 35°   | 6068.7 | 5134.8 | 4517.8  | 4453.8  | 4851.6  | 5492.2 | 6274.4  | 7272.3  | 7248.7  | 7016.1  |
| 37.5° | 6230.5 | 5313.5 | 4784.2  | 4794.3  | 5222.5  | 5721.4 | 6453.1  | 7673.6  | 7633.1  | 7474.6  |
| 40°   | 6345.2 | 5563.0 | 5198.9  | 5225.8  | 5546.1  | 5977.7 | 6770.0  | 7875.8  | 8175.9  | 7943.3  |
| 42.5° | 6362.0 | 5785.5 | 5674.2  | 5890.0  | 6190.1  | 6375.5 | 6898.1  | 8014.1  | 8445.6  | 8293.9  |
| 45°   | 6426.1 | 6139.5 | 6449.7  | 6608.2  | 6854.3  | 6726.2 | 6891.4  | 8250.1  | 8465.9  | 8388.3  |
| 47.5° | 6675.6 | 6783.5 | 7174.6  | 7656.7  | 7744.4  | 7322.9 | 7053.2  | 8287.2  | 8580.5  | 8570.4  |
| 50°   | 6935.2 | 7474.6 | 8024.2  | 8344.5  | 8455.7  | 7734.2 | 7204.9  | 8256.8  | 8732.2  | 8651.3  |
| 52.5° | 7225.1 | 8074.8 | 8867.1  | 9261.5  | 9200.8  | 8189.4 | 7376.9  | 8502.9  | 9012.0  | 8985.1  |
| 55°   | 7407.2 | 8344.5 | 9409.9  | 9959.4  | 9912.2  | 8698.5 | 7923.0  | 8857.0  | 9379.5  | 9312.1  |
| 57.5° | 7889.3 | 8782.8 | 9949.3  | 10205.6 | 10330.3 | 9366.1 | 8304.0  | 9436.9  | 9686.3  | 9760.5  |
| 60°   | 8287.2 | 9069.4 | 10090.9 | 10461.8 | 10505.6 | 9763.9 | 8971.6  | 10033.6 | 10077.4 | 9827.9  |
| 62.5° | 8870.4 | 9180.6 | 9790.9  | 10124.6 | 10350.5 | 9989.8 | 9571.7  | 10353.9 | 10070.7 | 10053.8 |
| 65°   | 9298.6 | 8816.5 | 9231.2  | 9416.6  | 9561.6  | 9645.9 | 10175.2 | 10573.1 | 9945.9  | 9618.9  |
| 67.5° | 9059.2 | 8128.7 | 8051.2  | 8061.3  | 8105.1  | 8614.2 | 9972.9  | 10037.0 | 9251.4  | 8981.7  |
| 70°   | 7973.6 | 6668.8 | 6564.3  | 6645.2  | 6426.1  | 7039.7 | 9153.6  | 9123.3  | 8162.4  | 7882.6  |
| 72.5° | 6449.7 | 4861.7 | 4683.0  | 4794.3  | 4844.9  | 5495.6 | 7700.5  | 6918.3  | 5954.1  | 5734.9  |
| 75°   | 5124.7 | 3563.7 | 3007.4  | 3277.1  | 3449.1  | 4002.0 | 6014.8  | 4699.9  | 4157.1  | 3860.4  |
| 77.5° | 4025.6 | 2697.2 | 2339.8  | 2231.9  | 2390.4  | 2909.6 | 4376.2  | 2467.9  | 2178.0  | 2039.8  |
| 80°   | 2552.2 | 1982.4 | 2151.0  | 1995.9  | 2063.4  | 2076.8 | 2279.1  | 1122.7  | 893.4   | 883.3   |
| 82.5° | 1537.4 | 1355.3 | 1611.6  | 886.7   | 1615.0  | 1443.0 | 947.4   | 509.1   | 451.8   | 451.8   |
| 85°   | 1089.0 | 839.5  | 556.3   | 360.8   | 718.1   | 792.3  | 367.5   | 263.0   | 229.3   | 222.5   |
| 87.5° | 546.2  | 259.6  | 124.7   | 80.9    | 91.0    | 148.3  | 43.8    | 20.2    | 20.2    | 16.9    |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)