

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: P598925

Luminaire Tested: **IFLD-M-SA4E-730-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P598925  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/03/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-M-SA4E-730-U-SLL  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens  
 Light Source: (64) 3000K CCT, 70 CRI LEDs  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

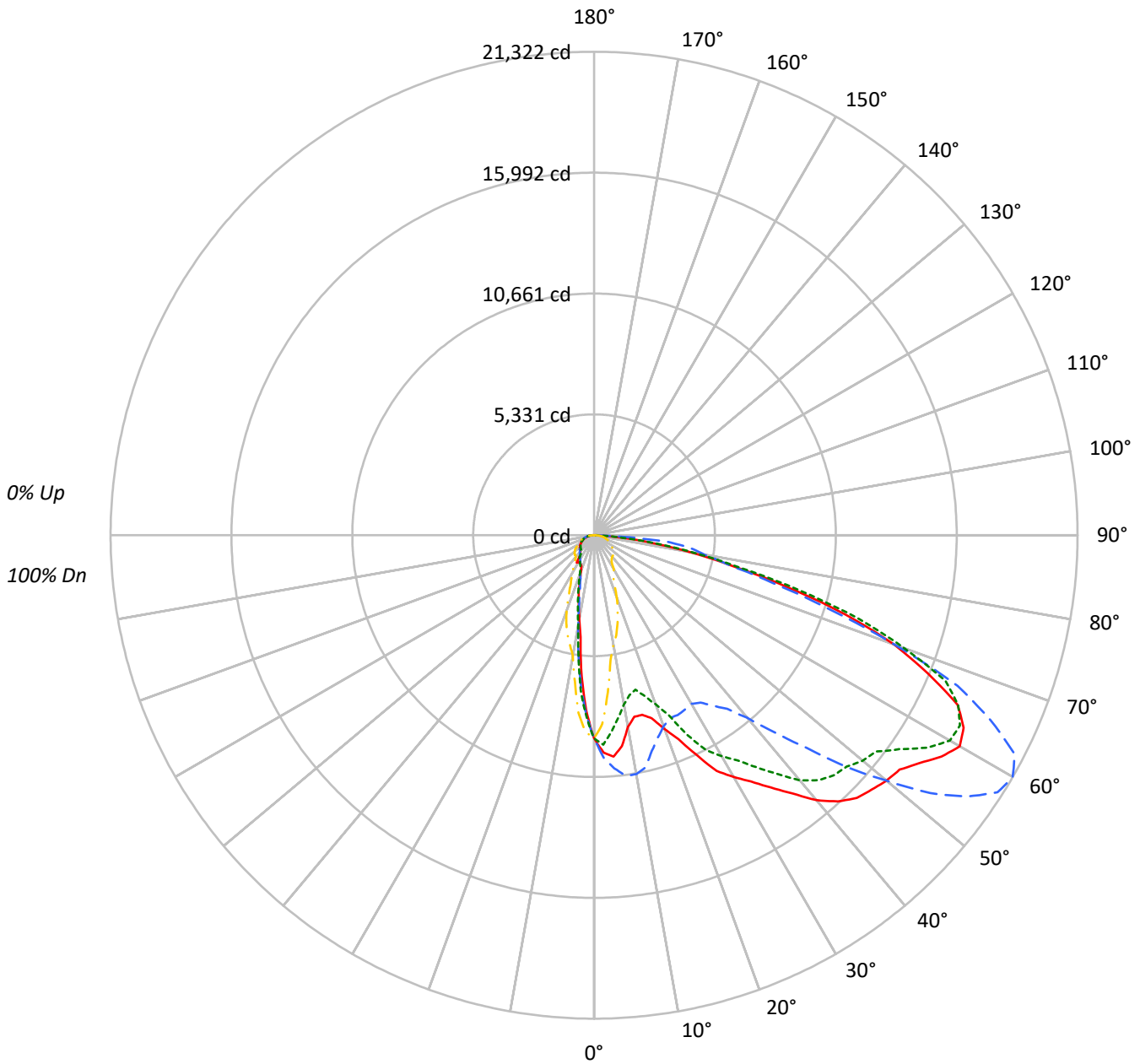
Lumens per Lamp: N/A  
 Luminaire Lumens: 28042.6 lumens  
 Efficiency: N/A  
 Efficacy: 89.1 lumens/watt  
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8  
 Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
 CIE Type: Direct

Input Watts (W): 314.8  
 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 | 102 | 102 | 102 | 100 |
| 1   | 106 | 100 | 94  | 89  | 103 | 97  | 92  | 88  | 93  | 89  | 85  | 89  | 85  | 82  | 85  | 82  | 80  | 80  | 80  | 80  | 77  |
| 2   | 94  | 83  | 75  | 68  | 91  | 81  | 74  | 67  | 78  | 71  | 65  | 74  | 69  | 64  | 71  | 66  | 62  | 62  | 62  | 62  | 60  |
| 3   | 84  | 71  | 61  | 53  | 81  | 69  | 60  | 53  | 66  | 58  | 52  | 63  | 56  | 51  | 60  | 55  | 50  | 50  | 50  | 50  | 47  |
| 4   | 75  | 61  | 51  | 43  | 73  | 60  | 50  | 42  | 57  | 48  | 42  | 54  | 47  | 41  | 52  | 46  | 40  | 40  | 40  | 40  | 38  |
| 5   | 68  | 53  | 43  | 35  | 66  | 52  | 42  | 35  | 50  | 41  | 34  | 48  | 40  | 34  | 46  | 39  | 34  | 34  | 34  | 34  | 31  |
| 6   | 63  | 47  | 37  | 30  | 60  | 46  | 37  | 29  | 44  | 36  | 29  | 42  | 35  | 29  | 41  | 34  | 29  | 29  | 29  | 29  | 26  |
| 7   | 58  | 42  | 32  | 25  | 56  | 41  | 32  | 25  | 40  | 31  | 25  | 38  | 31  | 25  | 37  | 30  | 25  | 25  | 25  | 25  | 22  |
| 8   | 53  | 38  | 29  | 22  | 52  | 37  | 28  | 22  | 36  | 28  | 22  | 35  | 27  | 22  | 33  | 27  | 22  | 22  | 22  | 22  | 19  |
| 9   | 50  | 35  | 26  | 20  | 48  | 34  | 26  | 20  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 19  | 19  | 19  | 17  |
| 10  | 46  | 32  | 23  | 18  | 45  | 31  | 23  | 18  | 30  | 23  | 17  | 29  | 22  | 17  | 28  | 22  | 17  | 17  | 17  | 17  | 15  |

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

|     | 0°     | 90°    | 180°  | 270°  |
|-----|--------|--------|-------|-------|
| 0°  | 96409  | 96409  | 96409 | 96409 |
| 5°  | 105917 | 94089  | 67475 | 73658 |
| 10° | 93817  | 82803  | 40926 | 43918 |
| 15° | 91353  | 78600  | 28972 | 30081 |
| 20° | 104163 | 90912  | 18952 | 20947 |
| 25° | 126912 | 115239 | 16548 | 17138 |
| 30° | 152915 | 139773 | 17162 | 15925 |
| 35° | 178338 | 164117 | 14222 | 13404 |
| 40° | 214299 | 198217 | 13284 | 12586 |
| 45° | 249393 | 227806 | 13444 | 12498 |
| 50° | 281847 | 258933 | 13748 | 12916 |
| 55° | 328696 | 308620 | 14240 | 13540 |
| 60° | 400900 | 389919 | 14193 | 14193 |
| 65° | 450542 | 451176 | 14574 | 15208 |
| 70° | 442786 | 458447 | 15270 | 15660 |
| 75° | 365252 | 389568 | 16037 | 17072 |
| 80° | 263717 | 276827 | 17734 | 18509 |
| 85° | 145955 | 156712 | 19970 | 24577 |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 695.8   | 2.5       |
| 10°-20°   | 1469.1  | 5.2       |
| 20°-30°   | 2149.4  | 7.7       |
| 30°-40°   | 3028.4  | 10.8      |
| 40°-50°   | 4162.0  | 14.8      |
| 50°-60°   | 5672.3  | 20.2      |
| 60°-70°   | 6208.1  | 22.1      |
| 70°-80°   | 3584.2  | 12.8      |
| 80°-90°   | 1073.3  | 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°    | 4314.3  | 15.4      |
| 0°-40°    | 7342.8  | 26.2      |
| 0°-60°    | 17177.1 | 61.3      |
| 0°-90°    | 28042.6 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 28042.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 90°   | 180° | 270° | 360°  | Flux  |
|-----|-------|-------|------|------|-------|-------|
| 0°  | 8957  | 8957  | 8957 | 8957 | 8957  |       |
| 5°  | 9803  | 8708  | 6245 | 6817 | 9803  | 890   |
| 15° | 8198  | 7053  | 2600 | 2699 | 8198  | 2395  |
| 25° | 10686 | 9703  | 1393 | 1443 | 10686 | 5004  |
| 35° | 13572 | 12490 | 1082 | 1020 | 13572 | 8606  |
| 45° | 16383 | 14965 | 883  | 821  | 16383 | 12592 |
| 55° | 17515 | 16445 | 759  | 722  | 17515 | 15804 |
| 65° | 17689 | 17714 | 572  | 597  | 17689 | 16931 |
| 75° | 8782  | 9367  | 386  | 410  | 8782  | 9434  |
| 85° | 1182  | 1269  | 162  | 199  | 1182  | 1640  |
| 90° | 0     | 0     | 0    | 0    | 0     |       |

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 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  | 8956.7  |
| 2.5°  | 9591.1  | 9553.8  | 9591.1  | 9727.9  | 9765.2  | 9827.4  | 9827.4  | 9740.4  | 9578.6  | 9504.0  | 9379.6  |
| 5°    | 9802.6  | 9740.4  | 10051.4 | 10337.5 | 10561.4 | 10536.5 | 10325.0 | 10150.9 | 9827.4  | 9342.3  | 8882.0  |
| 7.5°  | 9379.6  | 9441.8  | 9665.7  | 10412.1 | 10934.6 | 11034.1 | 10698.2 | 10349.9 | 9653.3  | 8981.5  | 8359.5  |
| 10°   | 8583.5  | 8670.5  | 9155.7  | 9927.0  | 10748.0 | 10909.7 | 10698.2 | 10275.3 | 9441.8  | 8608.3  | 7886.8  |
| 12.5° | 8197.8  | 8396.9  | 8683.0  | 9616.0  | 10200.6 | 10586.3 | 10486.7 | 10213.1 | 9280.1  | 8297.3  | 7600.7  |
| 15°   | 8197.8  | 8247.6  | 8670.5  | 9454.2  | 9790.1  | 9802.6  | 9839.9  | 9889.6  | 9329.8  | 8434.2  | 7501.2  |
| 17.5° | 8459.1  | 8595.9  | 8956.7  | 9441.8  | 9504.0  | 9354.7  | 9354.7  | 9566.2  | 9429.4  | 8819.8  | 7862.0  |
| 20°   | 9093.5  | 9043.7  | 9516.4  | 9715.5  | 9379.6  | 9006.4  | 8969.1  | 9329.8  | 9541.3  | 9230.3  | 8521.3  |
| 22.5° | 9727.9  | 9951.8  | 10337.5 | 9889.6  | 9267.6  | 8770.1  | 8720.3  | 9168.1  | 9877.2  | 9939.4  | 9280.1  |
| 25°   | 10685.8 | 10909.7 | 11108.7 | 10561.4 | 9255.2  | 8707.9  | 8745.2  | 9093.5  | 10287.7 | 10947.0 | 10548.9 |
| 27.5° | 11718.3 | 11855.1 | 12141.2 | 11295.3 | 9553.8  | 8633.2  | 8670.5  | 9193.0  | 10673.3 | 11606.3 | 11544.1 |
| 30°   | 12303.0 | 12452.2 | 12390.0 | 11432.2 | 9752.8  | 8683.0  | 8583.5  | 9329.8  | 10461.9 | 11606.3 | 12191.0 |
| 32.5° | 12875.2 | 12788.1 | 12750.8 | 11656.1 | 10001.6 | 8994.0  | 8745.2  | 9616.0  | 10586.3 | 11792.9 | 13024.5 |
| 35°   | 13571.8 | 13447.4 | 13347.9 | 12091.5 | 10412.1 | 9292.5  | 9180.6  | 9989.2  | 10859.9 | 12178.6 | 13696.2 |
| 37.5° | 14343.1 | 14343.1 | 13857.9 | 12414.9 | 10897.3 | 9777.7  | 9653.3  | 10524.1 | 11295.3 | 12414.9 | 14616.8 |
| 40°   | 15251.2 | 15288.5 | 14430.2 | 12850.3 | 11444.6 | 10548.9 | 10511.6 | 11220.7 | 11718.3 | 12763.2 | 15500.0 |
| 42.5° | 15922.9 | 15947.8 | 14927.8 | 13012.0 | 12079.0 | 11618.8 | 11780.5 | 12340.3 | 12203.4 | 13074.2 | 15562.2 |
| 45°   | 16383.2 | 16258.8 | 15276.1 | 13472.3 | 12775.7 | 13223.5 | 13273.3 | 13435.0 | 12837.9 | 13260.8 | 15811.0 |
| 47.5° | 16607.1 | 16582.2 | 15425.3 | 14007.2 | 14243.6 | 14853.1 | 15139.2 | 14915.3 | 13422.5 | 13061.8 | 15811.0 |
| 50°   | 16831.0 | 16619.6 | 15562.2 | 14741.2 | 15674.1 | 16905.7 | 16843.5 | 16433.0 | 14231.1 | 13310.6 | 15574.6 |
| 52.5° | 16980.3 | 16793.7 | 15835.9 | 15400.5 | 17042.5 | 18435.8 | 18684.6 | 17925.7 | 15176.6 | 13770.9 | 15686.6 |
| 55°   | 17515.2 | 17366.0 | 16656.9 | 16296.1 | 18622.4 | 20053.0 | 20090.3 | 19032.9 | 16171.7 | 14529.7 | 16420.5 |
| 57.5° | 18162.1 | 18249.2 | 17788.9 | 17565.0 | 19829.0 | 21234.7 | 21097.9 | 19853.9 | 17017.6 | 15450.2 | 17266.4 |
| 60°   | 18622.4 | 18759.2 | 18647.3 | 18672.1 | 20426.1 | 21632.8 | 21321.8 | 20363.9 | 17639.6 | 16146.9 | 18298.9 |
| 62.5° | 18373.6 | 18647.3 | 19107.5 | 19008.0 | 20451.0 | 21346.7 | 20911.3 | 19692.2 | 17714.3 | 17055.0 | 19082.6 |
| 65°   | 17689.4 | 17714.3 | 18609.9 | 19157.3 | 19331.4 | 19866.4 | 19294.1 | 18286.5 | 16943.0 | 17614.8 | 18970.7 |
| 67.5° | 15935.4 | 16134.4 | 16943.0 | 18012.8 | 17278.9 | 17403.3 | 17353.5 | 15898.1 | 15773.7 | 17229.1 | 18112.3 |
| 70°   | 14069.4 | 14206.2 | 15089.5 | 16345.9 | 14591.9 | 14007.2 | 14119.2 | 13036.9 | 13546.9 | 16034.9 | 16383.2 |
| 72.5° | 11631.2 | 11718.3 | 12725.9 | 13833.1 | 11705.8 | 10660.9 | 10922.1 | 10038.9 | 10760.4 | 14032.1 | 13820.6 |
| 75°   | 8782.5  | 8944.2  | 9727.9  | 11034.1 | 8620.8  | 7949.0  | 8210.3  | 7849.5  | 8521.3  | 11556.6 | 10723.1 |
| 77.5° | 6244.8  | 6120.4  | 7090.7  | 8633.2  | 6481.1  | 6083.1  | 6107.9  | 6170.1  | 6891.6  | 9740.4  | 7700.2  |
| 80°   | 4254.4  | 4291.7  | 5162.5  | 6331.9  | 5087.9  | 5025.7  | 4963.5  | 5461.1  | 5784.5  | 7712.7  | 5597.9  |
| 82.5° | 2525.3  | 2525.3  | 3483.1  | 4503.2  | 4018.1  | 4528.1  | 4242.0  | 4689.8  | 4528.1  | 5672.5  | 3669.7  |
| 85°   | 1181.8  | 1181.8  | 1791.3  | 3246.8  | 3109.9  | 3731.9  | 3172.1  | 3545.3  | 3346.3  | 3955.9  | 1654.5  |
| 87.5° | 199.0   | 174.2   | 360.8   | 1592.3  | 1281.3  | 1455.5  | 572.2   | 1890.8  | 2102.3  | 2761.6  | 410.5   |
| 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°    | 8956.7  | 8956.7  | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 |
| 2.5°  | 9242.8  | 9155.7  | 8981.5 | 8757.6 | 8571.0 | 8334.7 | 8260.0 | 8098.3 | 7874.4 | 7849.5 | 7750.0 |
| 5°    | 8707.9  | 8409.3  | 8036.1 | 7575.8 | 7264.8 | 6941.4 | 6667.7 | 6506.0 | 6319.4 | 6294.5 | 6244.8 |
| 7.5°  | 8123.2  | 7750.0  | 7128.0 | 6580.7 | 6045.7 | 5535.7 | 5286.9 | 4975.9 | 4764.4 | 4602.7 | 4528.1 |
| 10°   | 7575.8  | 7227.5  | 6456.3 | 5709.9 | 5237.2 | 4901.3 | 4602.7 | 4279.3 | 4018.1 | 3819.0 | 3744.4 |
| 12.5° | 7215.1  | 6804.6  | 5971.1 | 5262.0 | 4913.7 | 4528.1 | 4192.2 | 3843.9 | 3508.0 | 3246.8 | 3109.9 |
| 15°   | 7053.4  | 6667.7  | 5821.8 | 5038.1 | 4528.1 | 3993.2 | 3607.5 | 3259.2 | 2848.7 | 2662.1 | 2599.9 |
| 17.5° | 7439.0  | 6866.8  | 5772.1 | 4776.9 | 4055.4 | 3445.8 | 2973.1 | 2599.9 | 2301.4 | 2114.8 | 2040.1 |
| 20°   | 7936.6  | 7227.5  | 5859.1 | 4465.9 | 3607.5 | 2923.4 | 2400.9 | 2002.8 | 1803.8 | 1666.9 | 1654.5 |
| 22.5° | 8571.0  | 7762.4  | 5996.0 | 4242.0 | 3109.9 | 2351.1 | 1878.4 | 1642.1 | 1505.2 | 1492.8 | 1467.9 |
| 25°   | 9703.0  | 8732.7  | 6219.9 | 3943.4 | 2711.9 | 1940.6 | 1604.7 | 1467.9 | 1405.7 | 1368.4 | 1393.3 |
| 27.5° | 10673.3 | 9367.2  | 6381.6 | 3756.8 | 2550.2 | 1828.7 | 1555.0 | 1405.7 | 1343.5 | 1331.1 | 1343.5 |
| 30°   | 11245.6 | 9951.8  | 6331.9 | 3408.5 | 2226.7 | 1741.6 | 1654.5 | 1604.7 | 1480.3 | 1380.8 | 1380.8 |
| 32.5° | 11768.0 | 10325.0 | 6319.4 | 3097.5 | 1903.3 | 1455.5 | 1380.8 | 1343.5 | 1418.1 | 1467.9 | 1430.6 |
| 35°   | 12489.6 | 10909.7 | 6282.1 | 2923.4 | 1766.5 | 1343.5 | 1219.1 | 1119.6 | 1069.8 | 1044.9 | 1082.3 |
| 37.5° | 13260.8 | 11307.8 | 6182.6 | 2898.5 | 1691.8 | 1281.3 | 1181.8 | 1082.3 | 1032.5 | 1007.6 | 995.2  |
| 40°   | 14106.7 | 11730.7 | 6070.6 | 2774.1 | 1654.5 | 1244.0 | 1144.5 | 1057.4 | 995.2  | 957.9  | 945.4  |
| 42.5° | 14654.1 | 12066.6 | 5958.7 | 2711.9 | 1579.9 | 1219.1 | 1107.1 | 1032.5 | 970.3  | 920.5  | 920.5  |
| 45°   | 14965.1 | 12464.7 | 5846.7 | 2649.7 | 1492.8 | 1231.5 | 1107.1 | 1007.6 | 933.0  | 908.1  | 883.2  |
| 47.5° | 15101.9 | 12763.2 | 5809.4 | 2550.2 | 1418.1 | 1181.8 | 1082.3 | 982.7  | 908.1  | 858.3  | 845.9  |
| 50°   | 15462.7 | 13397.7 | 5946.2 | 2475.5 | 1331.1 | 1132.0 | 1144.5 | 970.3  | 895.7  | 833.5  | 821.0  |
| 52.5° | 15674.1 | 13907.7 | 6244.8 | 2363.6 | 1268.9 | 1069.8 | 1119.6 | 945.4  | 858.3  | 796.1  | 796.1  |
| 55°   | 16445.4 | 14753.6 | 6568.2 | 2276.5 | 1194.2 | 982.7  | 1032.5 | 895.7  | 796.1  | 758.8  | 758.8  |
| 57.5° | 17428.2 | 15649.3 | 6841.9 | 2239.2 | 1144.5 | 920.5  | 920.5  | 870.8  | 758.8  | 709.1  | 696.6  |
| 60°   | 18112.3 | 16383.2 | 7003.6 | 2214.3 | 1094.7 | 858.3  | 821.0  | 870.8  | 721.5  | 671.7  | 659.3  |
| 62.5° | 18187.0 | 15960.3 | 6841.9 | 2201.8 | 1082.3 | 796.1  | 746.4  | 833.5  | 684.2  | 634.4  | 609.6  |
| 65°   | 17714.3 | 15101.9 | 6394.1 | 2152.1 | 1069.8 | 733.9  | 696.6  | 721.5  | 634.4  | 597.1  | 572.2  |
| 67.5° | 16768.8 | 13708.7 | 5747.2 | 2127.2 | 1057.4 | 684.2  | 634.4  | 622.0  | 584.7  | 547.4  | 522.5  |
| 70°   | 14567.0 | 11892.4 | 4988.4 | 2015.2 | 1032.5 | 646.9  | 572.2  | 559.8  | 522.5  | 497.6  | 485.2  |
| 72.5° | 12228.3 | 9727.9  | 4117.6 | 1866.0 | 982.7  | 584.7  | 522.5  | 497.6  | 485.2  | 447.8  | 435.4  |
| 75°   | 9367.2  | 7488.8  | 3296.5 | 1654.5 | 858.3  | 522.5  | 460.3  | 435.4  | 423.0  | 398.1  | 385.6  |
| 77.5° | 6580.7  | 5573.0  | 2438.2 | 1343.5 | 721.5  | 472.7  | 410.5  | 385.6  | 373.2  | 335.9  | 335.9  |
| 80°   | 4465.9  | 3906.1  | 1654.5 | 933.0  | 559.8  | 385.6  | 360.8  | 335.9  | 311.0  | 286.1  | 286.1  |
| 82.5° | 2774.1  | 2736.8  | 1194.2 | 609.6  | 410.5  | 311.0  | 286.1  | 286.1  | 248.8  | 223.9  | 223.9  |
| 85°   | 1268.9  | 1679.4  | 833.5  | 423.0  | 311.0  | 236.4  | 236.4  | 223.9  | 199.0  | 161.7  | 161.7  |
| 87.5° | 398.1   | 559.8   | 435.4  | 186.6  | 174.2  | 136.8  | 136.8  | 124.4  | 124.4  | 99.5   | 99.5   |
| 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: P598925  
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 |
| 2.5°  | 7849.5 | 7837.1 | 7837.1 | 7787.3 | 7911.7 | 7911.7 | 7986.3 | 7924.2 | 7961.5 | 7973.9 | 8073.4 |
| 5°    | 6232.3 | 6331.9 | 6406.5 | 6555.8 | 6642.9 | 6680.2 | 6680.2 | 6779.7 | 6742.4 | 6817.0 | 6966.3 |
| 7.5°  | 4565.4 | 4689.8 | 4913.7 | 5100.3 | 5249.6 | 5299.4 | 5286.9 | 5311.8 | 5349.1 | 5262.0 | 5286.9 |
| 10°   | 3694.6 | 3607.5 | 3682.2 | 3856.3 | 3993.2 | 4154.9 | 4030.5 | 4018.1 | 4055.4 | 4018.1 | 4092.7 |
| 12.5° | 3085.1 | 2985.6 | 2923.4 | 2923.4 | 3022.9 | 3097.5 | 3060.2 | 3122.4 | 3259.2 | 3296.5 | 3383.6 |
| 15°   | 2500.4 | 2413.3 | 2363.6 | 2301.4 | 2400.9 | 2425.8 | 2463.1 | 2550.2 | 2649.7 | 2699.4 | 2799.0 |
| 17.5° | 2002.8 | 2002.8 | 2002.8 | 1953.0 | 1990.4 | 2027.7 | 2040.1 | 2152.1 | 2164.5 | 2214.3 | 2251.6 |
| 20°   | 1642.1 | 1679.4 | 1741.6 | 1766.5 | 1803.8 | 1803.8 | 1778.9 | 1841.1 | 1791.3 | 1828.7 | 1853.5 |
| 22.5° | 1480.3 | 1530.1 | 1555.0 | 1567.4 | 1617.2 | 1629.6 | 1567.4 | 1579.9 | 1592.3 | 1555.0 | 1567.4 |
| 25°   | 1393.3 | 1418.1 | 1393.3 | 1405.7 | 1418.1 | 1393.3 | 1405.7 | 1430.6 | 1418.1 | 1443.0 | 1430.6 |
| 27.5° | 1355.9 | 1331.1 | 1318.6 | 1306.2 | 1306.2 | 1281.3 | 1293.7 | 1293.7 | 1318.6 | 1331.1 | 1331.1 |
| 30°   | 1355.9 | 1318.6 | 1268.9 | 1231.5 | 1231.5 | 1194.2 | 1219.1 | 1244.0 | 1256.4 | 1281.3 | 1281.3 |
| 32.5° | 1393.3 | 1318.6 | 1231.5 | 1194.2 | 1156.9 | 1132.0 | 1156.9 | 1194.2 | 1244.0 | 1256.4 | 1268.9 |
| 35°   | 1107.1 | 1144.5 | 1132.0 | 1082.3 | 1069.8 | 1069.8 | 1057.4 | 1057.4 | 1020.1 | 1020.1 | 1007.6 |
| 37.5° | 995.2  | 982.7  | 1007.6 | 1020.1 | 1032.5 | 995.2  | 995.2  | 945.4  | 933.0  | 945.4  | 945.4  |
| 40°   | 933.0  | 933.0  | 933.0  | 970.3  | 982.7  | 957.9  | 920.5  | 895.7  | 895.7  | 895.7  | 908.1  |
| 42.5° | 908.1  | 883.2  | 870.8  | 895.7  | 933.0  | 908.1  | 870.8  | 858.3  | 858.3  | 870.8  | 870.8  |
| 45°   | 870.8  | 858.3  | 845.9  | 833.5  | 883.2  | 845.9  | 833.5  | 821.0  | 821.0  | 821.0  | 833.5  |
| 47.5° | 833.5  | 821.0  | 796.1  | 796.1  | 808.6  | 796.1  | 783.7  | 783.7  | 783.7  | 808.6  | 808.6  |
| 50°   | 808.6  | 796.1  | 771.3  | 771.3  | 771.3  | 771.3  | 758.8  | 758.8  | 758.8  | 771.3  | 783.7  |
| 52.5° | 771.3  | 758.8  | 746.4  | 733.9  | 733.9  | 733.9  | 733.9  | 733.9  | 733.9  | 746.4  | 758.8  |
| 55°   | 733.9  | 721.5  | 709.1  | 709.1  | 721.5  | 721.5  | 709.1  | 721.5  | 709.1  | 721.5  | 733.9  |
| 57.5° | 696.6  | 684.2  | 671.7  | 684.2  | 696.6  | 684.2  | 684.2  | 684.2  | 684.2  | 684.2  | 696.6  |
| 60°   | 646.9  | 646.9  | 646.9  | 646.9  | 671.7  | 671.7  | 671.7  | 671.7  | 646.9  | 659.3  | 671.7  |
| 62.5° | 622.0  | 609.6  | 609.6  | 622.0  | 634.4  | 634.4  | 646.9  | 634.4  | 622.0  | 634.4  | 634.4  |
| 65°   | 572.2  | 572.2  | 572.2  | 584.7  | 584.7  | 597.1  | 597.1  | 597.1  | 584.7  | 597.1  | 597.1  |
| 67.5° | 534.9  | 534.9  | 534.9  | 534.9  | 559.8  | 559.8  | 559.8  | 559.8  | 547.4  | 547.4  | 559.8  |
| 70°   | 472.7  | 485.2  | 472.7  | 497.6  | 522.5  | 510.0  | 522.5  | 522.5  | 510.0  | 497.6  | 522.5  |
| 72.5° | 435.4  | 435.4  | 435.4  | 435.4  | 472.7  | 472.7  | 472.7  | 485.2  | 472.7  | 460.3  | 472.7  |
| 75°   | 385.6  | 385.6  | 385.6  | 398.1  | 423.0  | 423.0  | 423.0  | 423.0  | 423.0  | 410.5  | 410.5  |
| 77.5° | 335.9  | 348.3  | 335.9  | 348.3  | 373.2  | 360.8  | 373.2  | 385.6  | 373.2  | 360.8  | 360.8  |
| 80°   | 286.1  | 286.1  | 286.1  | 298.6  | 311.0  | 311.0  | 311.0  | 323.4  | 311.0  | 298.6  | 298.6  |
| 82.5° | 223.9  | 223.9  | 236.4  | 236.4  | 248.8  | 248.8  | 248.8  | 261.2  | 248.8  | 236.4  | 236.4  |
| 85°   | 174.2  | 174.2  | 174.2  | 186.6  | 186.6  | 199.0  | 199.0  | 211.5  | 211.5  | 199.0  | 199.0  |
| 87.5° | 112.0  | 99.5   | 112.0  | 112.0  | 124.4  | 124.4  | 112.0  | 99.5   | 112.0  | 99.5   | 87.1   |
| 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: P598925  
 CATALOG NUMBER: IFLD-M-SA4E-730-U-SLL

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 359°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7 | 8956.7  | 8956.7  | 8956.7  |
| 2.5°  | 8172.9 | 8396.9 | 8558.6 | 8670.5 | 8832.3 | 9143.3 | 9267.6 | 9491.6  | 9553.8  | 9591.1  |
| 5°    | 7028.5 | 7264.8 | 7613.2 | 7862.0 | 8148.1 | 8732.7 | 9180.6 | 9516.4  | 9665.7  | 9802.6  |
| 7.5°  | 5510.8 | 5821.8 | 6182.6 | 6506.0 | 6978.7 | 7700.2 | 8284.9 | 8981.5  | 9242.8  | 9379.6  |
| 10°   | 4304.2 | 4590.3 | 4988.4 | 5386.4 | 6045.7 | 6655.3 | 7488.8 | 8123.2  | 8483.9  | 8583.5  |
| 12.5° | 3632.4 | 3968.3 | 4441.0 | 4926.2 | 5336.7 | 6033.3 | 6879.2 | 7799.8  | 8135.6  | 8197.8  |
| 15°   | 3085.1 | 3545.3 | 4030.5 | 4528.1 | 5000.8 | 5610.3 | 6518.5 | 7638.0  | 8135.6  | 8197.8  |
| 17.5° | 2550.2 | 2960.7 | 3532.9 | 4067.8 | 4615.2 | 5448.6 | 6580.7 | 7774.9  | 8272.5  | 8459.1  |
| 20°   | 2027.7 | 2425.8 | 2873.6 | 3545.3 | 4291.7 | 5175.0 | 6717.5 | 8235.1  | 8894.5  | 9093.5  |
| 22.5° | 1679.4 | 1853.5 | 2288.9 | 2935.8 | 3819.0 | 4988.4 | 6854.3 | 8956.7  | 9653.3  | 9727.9  |
| 25°   | 1467.9 | 1592.3 | 1866.0 | 2475.5 | 3445.8 | 4864.0 | 7177.8 | 9790.1  | 10685.8 | 10685.8 |
| 27.5° | 1368.4 | 1418.1 | 1604.7 | 2152.1 | 3184.6 | 4752.0 | 7501.2 | 10710.7 | 11544.1 | 11718.3 |
| 30°   | 1343.5 | 1467.9 | 1567.4 | 1915.7 | 2898.5 | 4441.0 | 7799.8 | 11432.2 | 12290.5 | 12303.0 |
| 32.5° | 1318.6 | 1293.7 | 1368.4 | 1666.9 | 2550.2 | 4117.6 | 8048.5 | 12166.1 | 12837.9 | 12875.2 |
| 35°   | 1032.5 | 1082.3 | 1206.7 | 1467.9 | 2288.9 | 3881.2 | 8172.9 | 12564.2 | 13534.5 | 13571.8 |
| 37.5° | 970.3  | 1032.5 | 1132.0 | 1355.9 | 2114.8 | 3682.2 | 8210.3 | 13335.5 | 14268.4 | 14343.1 |
| 40°   | 945.4  | 995.2  | 1069.8 | 1256.4 | 1977.9 | 3433.4 | 8284.9 | 14131.6 | 15350.7 | 15251.2 |
| 42.5° | 895.7  | 957.9  | 1032.5 | 1206.7 | 1866.0 | 3246.8 | 8297.3 | 14567.0 | 15922.9 | 15922.9 |
| 45°   | 883.2  | 920.5  | 1007.6 | 1206.7 | 1741.6 | 3085.1 | 8098.3 | 15002.4 | 16582.2 | 16383.2 |
| 47.5° | 833.5  | 908.1  | 982.7  | 1169.3 | 1592.3 | 2923.4 | 7862.0 | 15226.3 | 16669.3 | 16607.1 |
| 50°   | 821.0  | 895.7  | 1020.1 | 1107.1 | 1505.2 | 2848.7 | 7812.2 | 15786.1 | 16843.5 | 16831.0 |
| 52.5° | 796.1  | 870.8  | 1057.4 | 1057.4 | 1393.3 | 2749.2 | 8048.5 | 16034.9 | 16880.8 | 16980.3 |
| 55°   | 758.8  | 870.8  | 982.7  | 970.3  | 1293.7 | 2624.8 | 8309.8 | 16681.8 | 17540.1 | 17515.2 |
| 57.5° | 733.9  | 845.9  | 933.0  | 883.2  | 1181.8 | 2537.7 | 8695.4 | 17303.8 | 18336.3 | 18162.1 |
| 60°   | 696.6  | 845.9  | 833.5  | 821.0  | 1094.7 | 2463.1 | 9018.9 | 17428.2 | 18510.4 | 18622.4 |
| 62.5° | 671.7  | 883.2  | 733.9  | 758.8  | 1020.1 | 2425.8 | 8882.0 | 16495.2 | 18274.1 | 18373.6 |
| 65°   | 646.9  | 758.8  | 671.7  | 696.6  | 995.2  | 2351.1 | 8347.1 | 15375.6 | 17254.0 | 17689.4 |
| 67.5° | 597.1  | 622.0  | 622.0  | 646.9  | 970.3  | 2177.0 | 7252.4 | 13360.3 | 15699.0 | 15935.4 |
| 70°   | 547.4  | 559.8  | 559.8  | 597.1  | 945.4  | 1977.9 | 5983.5 | 11556.6 | 13621.6 | 14069.4 |
| 72.5° | 497.6  | 497.6  | 497.6  | 547.4  | 870.8  | 1816.2 | 4926.2 | 8882.0  | 11320.2 | 11631.2 |
| 75°   | 435.4  | 435.4  | 435.4  | 485.2  | 783.7  | 1654.5 | 3881.2 | 6605.5  | 8334.7  | 8782.5  |
| 77.5° | 385.6  | 385.6  | 373.2  | 435.4  | 684.2  | 1343.5 | 2799.0 | 4664.9  | 5871.6  | 6244.8  |
| 80°   | 323.4  | 311.0  | 311.0  | 348.3  | 534.9  | 970.3  | 1803.8 | 3296.5  | 4092.7  | 4254.4  |
| 82.5° | 261.2  | 248.8  | 236.4  | 261.2  | 385.6  | 609.6  | 1119.6 | 2301.4  | 2624.8  | 2525.3  |
| 85°   | 248.8  | 261.2  | 211.5  | 199.0  | 273.7  | 398.1  | 709.1  | 1418.1  | 1181.8  | 1181.8  |
| 87.5° | 99.5   | 87.1   | 87.1   | 74.6   | 136.8  | 149.3  | 311.0  | 261.2   | 199.0   | 199.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)