

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: P599087

Luminaire Tested: **IFLD-S-SA3C-830-U-SLL**

Issue Date: 05/03/2022

Tested By:

Approved By:



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Test Information

Test Method: LM-79-08
 Report Number: P599087
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/03/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA3C-830-U-SLL
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens
 Light Source: (48) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

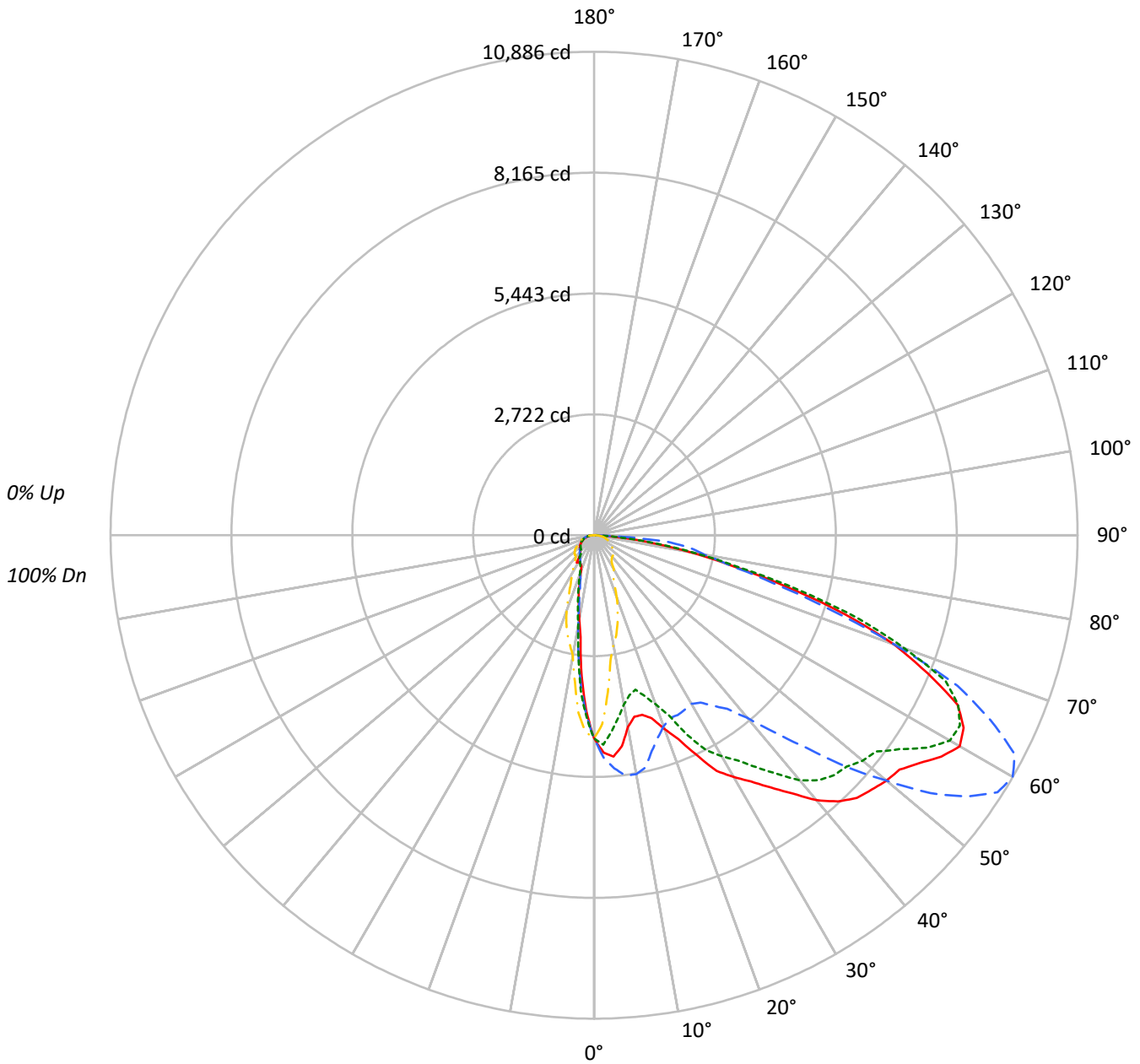
Lumens per Lamp: N/A
 Luminaire Lumens: 14316.7 lumens
 Efficiency: N/A
 Efficacy: 89.0 lumens/watt
 Spacing Criteria (0/90/45): 1.12 / 0.52 / 0.8
 Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
 CIE Type: Direct

Input Watts (W): 160.8
 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 |

TEST NUMBER: P599087
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Luminous Intensity Polar Plot



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

TEST NUMBER: P599087

CATALOG NUMBER: IFLD-S-SA3C-830-U-SLL

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|-------|-------|
| 0° | 65627 | 65627 | 65627 | 65627 |
| 5° | 72098 | 64046 | 45931 | 50140 |
| 10° | 63862 | 56365 | 27858 | 29894 |
| 15° | 62186 | 53504 | 19721 | 20478 |
| 20° | 70905 | 61885 | 12901 | 14259 |
| 25° | 86389 | 78445 | 11264 | 11666 |
| 30° | 104091 | 95144 | 11683 | 10840 |
| 35° | 121397 | 111715 | 9680 | 9125 |
| 40° | 145875 | 134930 | 9043 | 8568 |
| 45° | 169765 | 155070 | 9152 | 8508 |
| 50° | 191856 | 176258 | 9360 | 8793 |
| 55° | 223747 | 210080 | 9693 | 9218 |
| 60° | 272895 | 265421 | 9662 | 9662 |
| 65° | 306688 | 307119 | 9920 | 10351 |
| 70° | 301410 | 312068 | 10394 | 10658 |
| 75° | 248633 | 265180 | 10918 | 11623 |
| 80° | 179514 | 188440 | 12075 | 12596 |
| 85° | 99345 | 106673 | 13602 | 16730 |

TEST NUMBER: P599087
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SLL

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 355.2 | 2.5 |
| 10°-20° | 750.0 | 5.2 |
| 20°-30° | 1097.4 | 7.7 |
| 30°-40° | 1546.1 | 10.8 |
| 40°-50° | 2124.8 | 14.8 |
| 50°-60° | 2895.9 | 20.2 |
| 60°-70° | 3169.4 | 22.1 |
| 70°-80° | 1829.8 | 12.8 |
| 80°-90° | 548.0 | 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° | 2202.6 | 15.4 |
| 0°-40° | 3748.7 | 26.2 |
| 0°-60° | 8769.5 | 61.3 |
| 0°-90° | 14316.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 14316.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4573 | 4573 | 4573 | 4573 | 4573 | |
| 5° | 5004 | 4446 | 3188 | 3480 | 5004 | 454 |
| 15° | 4185 | 3601 | 1327 | 1378 | 4185 | 1223 |
| 25° | 5455 | 4954 | 711 | 737 | 5455 | 2555 |
| 35° | 6929 | 6376 | 552 | 521 | 6929 | 4394 |
| 45° | 8364 | 7640 | 451 | 419 | 8364 | 6429 |
| 55° | 8942 | 8396 | 387 | 368 | 8942 | 8068 |
| 65° | 9031 | 9044 | 292 | 305 | 9031 | 8644 |
| 75° | 4484 | 4782 | 197 | 210 | 4484 | 4816 |
| 85° | 603 | 648 | 83 | 102 | 603 | 837 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

TEST NUMBER: P599087
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 |
| 2.5° | 4896.6 | 4877.5 | 4896.6 | 4966.4 | 4985.5 | 5017.2 | 5017.2 | 4972.8 | 4890.2 | 4852.1 | 4788.6 |
| 5° | 5004.5 | 4972.8 | 5131.5 | 5277.6 | 5391.9 | 5379.2 | 5271.3 | 5182.4 | 5017.2 | 4769.5 | 4534.6 |
| 7.5° | 4788.6 | 4820.4 | 4934.7 | 5315.7 | 5582.5 | 5633.3 | 5461.8 | 5284.0 | 4928.3 | 4585.4 | 4267.8 |
| 10° | 4382.1 | 4426.6 | 4674.3 | 5068.0 | 5487.2 | 5569.8 | 5461.8 | 5245.9 | 4820.4 | 4394.8 | 4026.5 |
| 12.5° | 4185.3 | 4286.9 | 4432.9 | 4909.3 | 5207.8 | 5404.6 | 5353.8 | 5214.1 | 4737.8 | 4236.1 | 3880.4 |
| 15° | 4185.3 | 4210.7 | 4426.6 | 4826.7 | 4998.2 | 5004.5 | 5023.6 | 5049.0 | 4763.2 | 4305.9 | 3829.6 |
| 17.5° | 4318.6 | 4388.5 | 4572.7 | 4820.4 | 4852.1 | 4775.9 | 4775.9 | 4883.9 | 4814.0 | 4502.8 | 4013.8 |
| 20° | 4642.5 | 4617.1 | 4858.5 | 4960.1 | 4788.6 | 4598.1 | 4579.0 | 4763.2 | 4871.2 | 4712.4 | 4350.4 |
| 22.5° | 4966.4 | 5080.7 | 5277.6 | 5049.0 | 4731.4 | 4477.4 | 4452.0 | 4680.6 | 5042.6 | 5074.4 | 4737.8 |
| 25° | 5455.4 | 5569.8 | 5671.4 | 5391.9 | 4725.1 | 4445.6 | 4464.7 | 4642.5 | 5252.2 | 5588.8 | 5385.6 |
| 27.5° | 5982.6 | 6052.4 | 6198.5 | 5766.6 | 4877.5 | 4407.5 | 4426.6 | 4693.3 | 5449.1 | 5925.4 | 5893.7 |
| 30° | 6281.1 | 6357.3 | 6325.5 | 5836.5 | 4979.1 | 4432.9 | 4382.1 | 4763.2 | 5341.1 | 5925.4 | 6223.9 |
| 32.5° | 6573.2 | 6528.8 | 6509.7 | 5950.8 | 5106.1 | 4591.7 | 4464.7 | 4909.3 | 5404.6 | 6020.7 | 6649.4 |
| 35° | 6928.9 | 6865.4 | 6814.5 | 6173.1 | 5315.7 | 4744.1 | 4687.0 | 5099.8 | 5544.4 | 6217.6 | 6992.4 |
| 37.5° | 7322.6 | 7322.6 | 7074.9 | 6338.2 | 5563.4 | 4991.8 | 4928.3 | 5372.9 | 5766.6 | 6338.2 | 7462.3 |
| 40° | 7786.2 | 7805.3 | 7367.1 | 6560.5 | 5842.9 | 5385.6 | 5366.5 | 5728.5 | 5982.6 | 6516.1 | 7913.3 |
| 42.5° | 8129.2 | 8141.9 | 7621.1 | 6643.1 | 6166.7 | 5931.8 | 6014.3 | 6300.1 | 6230.3 | 6674.8 | 7945.0 |
| 45° | 8364.2 | 8300.7 | 7798.9 | 6878.1 | 6522.4 | 6751.0 | 6776.4 | 6859.0 | 6554.2 | 6770.1 | 8072.0 |
| 47.5° | 8478.5 | 8465.8 | 7875.1 | 7151.1 | 7271.8 | 7583.0 | 7729.1 | 7614.8 | 6852.7 | 6668.5 | 8072.0 |
| 50° | 8592.8 | 8484.8 | 7945.0 | 7525.8 | 8002.2 | 8630.9 | 8599.2 | 8389.6 | 7265.5 | 6795.5 | 7951.4 |
| 52.5° | 8669.0 | 8573.8 | 8084.7 | 7862.4 | 8700.8 | 9412.1 | 9539.1 | 9151.7 | 7748.1 | 7030.5 | 8008.5 |
| 55° | 8942.1 | 8865.9 | 8503.9 | 8319.7 | 9507.3 | 10237.7 | 10256.7 | 9716.9 | 8256.2 | 7417.9 | 8383.2 |
| 57.5° | 9272.4 | 9316.8 | 9081.8 | 8967.5 | 10123.4 | 10841.0 | 10771.2 | 10136.1 | 8688.1 | 7887.9 | 8815.1 |
| 60° | 9507.3 | 9577.2 | 9520.0 | 9532.7 | 10428.2 | 11044.3 | 10885.5 | 10396.5 | 9005.6 | 8243.5 | 9342.2 |
| 62.5° | 9380.3 | 9520.0 | 9755.0 | 9704.2 | 10440.9 | 10898.2 | 10675.9 | 10053.5 | 9043.7 | 8707.1 | 9742.3 |
| 65° | 9031.0 | 9043.7 | 9501.0 | 9780.4 | 9869.3 | 10142.4 | 9850.3 | 9335.9 | 8650.0 | 8992.9 | 9685.2 |
| 67.5° | 8135.5 | 8237.2 | 8650.0 | 9196.1 | 8821.4 | 8884.9 | 8859.5 | 8116.5 | 8053.0 | 8796.0 | 9246.9 |
| 70° | 7182.9 | 7252.8 | 7703.7 | 8345.1 | 7449.6 | 7151.1 | 7208.3 | 6655.8 | 6916.2 | 8186.3 | 8364.2 |
| 72.5° | 5938.1 | 5982.6 | 6497.0 | 7062.2 | 5976.2 | 5442.7 | 5576.1 | 5125.2 | 5493.6 | 7163.8 | 7055.9 |
| 75° | 4483.8 | 4566.3 | 4966.4 | 5633.3 | 4401.2 | 4058.2 | 4191.6 | 4007.4 | 4350.4 | 5900.0 | 5474.5 |
| 77.5° | 3188.2 | 3124.7 | 3620.0 | 4407.5 | 3308.8 | 3105.6 | 3118.3 | 3150.1 | 3518.4 | 4972.8 | 3931.2 |
| 80° | 2172.0 | 2191.1 | 2635.6 | 3232.6 | 2597.5 | 2565.8 | 2534.0 | 2788.1 | 2953.2 | 3937.6 | 2857.9 |
| 82.5° | 1289.2 | 1289.2 | 1778.3 | 2299.0 | 2051.3 | 2311.7 | 2165.7 | 2394.3 | 2311.7 | 2896.0 | 1873.5 |
| 85° | 603.3 | 603.3 | 914.5 | 1657.6 | 1587.7 | 1905.3 | 1619.5 | 1810.0 | 1708.4 | 2019.6 | 844.7 |
| 87.5° | 101.6 | 88.9 | 184.2 | 812.9 | 654.1 | 743.1 | 292.1 | 965.3 | 1073.3 | 1409.9 | 209.6 |
| 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: P599087
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 |
| 2.5° | 4718.7 | 4674.3 | 4585.4 | 4471.1 | 4375.8 | 4255.1 | 4217.0 | 4134.5 | 4020.1 | 4007.4 | 3956.6 |
| 5° | 4445.6 | 4293.2 | 4102.7 | 3867.7 | 3708.9 | 3543.8 | 3404.1 | 3321.5 | 3226.3 | 3213.6 | 3188.2 |
| 7.5° | 4147.2 | 3956.6 | 3639.1 | 3359.6 | 3086.6 | 2826.2 | 2699.1 | 2540.4 | 2432.4 | 2349.8 | 2311.7 |
| 10° | 3867.7 | 3689.9 | 3296.1 | 2915.1 | 2673.7 | 2502.3 | 2349.8 | 2184.7 | 2051.3 | 1949.7 | 1911.6 |
| 12.5° | 3683.5 | 3474.0 | 3048.4 | 2686.4 | 2508.6 | 2311.7 | 2140.3 | 1962.4 | 1791.0 | 1657.6 | 1587.7 |
| 15° | 3601.0 | 3404.1 | 2972.2 | 2572.1 | 2311.7 | 2038.6 | 1841.8 | 1663.9 | 1454.4 | 1359.1 | 1327.3 |
| 17.5° | 3797.9 | 3505.7 | 2946.8 | 2438.8 | 2070.4 | 1759.2 | 1517.9 | 1327.3 | 1174.9 | 1079.7 | 1041.6 |
| 20° | 4051.9 | 3689.9 | 2991.3 | 2280.0 | 1841.8 | 1492.5 | 1225.7 | 1022.5 | 920.9 | 851.0 | 844.7 |
| 22.5° | 4375.8 | 3963.0 | 3061.1 | 2165.7 | 1587.7 | 1200.3 | 959.0 | 838.3 | 768.5 | 762.1 | 749.4 |
| 25° | 4953.7 | 4458.4 | 3175.5 | 2013.2 | 1384.5 | 990.7 | 819.3 | 749.4 | 717.7 | 698.6 | 711.3 |
| 27.5° | 5449.1 | 4782.2 | 3258.0 | 1918.0 | 1301.9 | 933.6 | 793.9 | 717.7 | 685.9 | 679.5 | 685.9 |
| 30° | 5741.2 | 5080.7 | 3232.6 | 1740.2 | 1136.8 | 889.1 | 844.7 | 819.3 | 755.8 | 705.0 | 705.0 |
| 32.5° | 6008.0 | 5271.3 | 3226.3 | 1581.4 | 971.7 | 743.1 | 705.0 | 685.9 | 724.0 | 749.4 | 730.4 |
| 35° | 6376.3 | 5569.8 | 3207.2 | 1492.5 | 901.8 | 685.9 | 622.4 | 571.6 | 546.2 | 533.5 | 552.5 |
| 37.5° | 6770.1 | 5773.0 | 3156.4 | 1479.8 | 863.7 | 654.1 | 603.3 | 552.5 | 527.1 | 514.4 | 508.1 |
| 40° | 7202.0 | 5988.9 | 3099.3 | 1416.3 | 844.7 | 635.1 | 584.3 | 539.8 | 508.1 | 489.0 | 482.7 |
| 42.5° | 7481.4 | 6160.4 | 3042.1 | 1384.5 | 806.6 | 622.4 | 565.2 | 527.1 | 495.4 | 470.0 | 470.0 |
| 45° | 7640.2 | 6363.6 | 2984.9 | 1352.7 | 762.1 | 628.7 | 565.2 | 514.4 | 476.3 | 463.6 | 450.9 |
| 47.5° | 7710.0 | 6516.1 | 2965.9 | 1301.9 | 724.0 | 603.3 | 552.5 | 501.7 | 463.6 | 438.2 | 431.9 |
| 50° | 7894.2 | 6839.9 | 3035.7 | 1263.8 | 679.5 | 577.9 | 584.3 | 495.4 | 457.3 | 425.5 | 419.2 |
| 52.5° | 8002.2 | 7100.3 | 3188.2 | 1206.7 | 647.8 | 546.2 | 571.6 | 482.7 | 438.2 | 406.5 | 406.5 |
| 55° | 8395.9 | 7532.2 | 3353.3 | 1162.2 | 609.7 | 501.7 | 527.1 | 457.3 | 406.5 | 387.4 | 387.4 |
| 57.5° | 8897.6 | 7989.5 | 3493.0 | 1143.2 | 584.3 | 470.0 | 470.0 | 444.6 | 387.4 | 362.0 | 355.7 |
| 60° | 9246.9 | 8364.2 | 3575.6 | 1130.5 | 558.9 | 438.2 | 419.2 | 444.6 | 368.4 | 343.0 | 336.6 |
| 62.5° | 9285.1 | 8148.2 | 3493.0 | 1124.1 | 552.5 | 406.5 | 381.1 | 425.5 | 349.3 | 323.9 | 311.2 |
| 65° | 9043.7 | 7710.0 | 3264.4 | 1098.7 | 546.2 | 374.7 | 355.7 | 368.4 | 323.9 | 304.8 | 292.1 |
| 67.5° | 8561.0 | 6998.7 | 2934.1 | 1086.0 | 539.8 | 349.3 | 323.9 | 317.5 | 298.5 | 279.4 | 266.7 |
| 70° | 7436.9 | 6071.5 | 2546.7 | 1028.9 | 527.1 | 330.2 | 292.1 | 285.8 | 266.7 | 254.0 | 247.7 |
| 72.5° | 6243.0 | 4966.4 | 2102.2 | 952.6 | 501.7 | 298.5 | 266.7 | 254.0 | 247.7 | 228.6 | 222.3 |
| 75° | 4782.2 | 3823.3 | 1683.0 | 844.7 | 438.2 | 266.7 | 235.0 | 222.3 | 215.9 | 203.2 | 196.9 |
| 77.5° | 3359.6 | 2845.2 | 1244.8 | 685.9 | 368.4 | 241.3 | 209.6 | 196.9 | 190.5 | 171.5 | 171.5 |
| 80° | 2280.0 | 1994.2 | 844.7 | 476.3 | 285.8 | 196.9 | 184.2 | 171.5 | 158.8 | 146.1 | 146.1 |
| 82.5° | 1416.3 | 1397.2 | 609.7 | 311.2 | 209.6 | 158.8 | 146.1 | 146.1 | 127.0 | 114.3 | 114.3 |
| 85° | 647.8 | 857.4 | 425.5 | 215.9 | 158.8 | 120.7 | 120.7 | 114.3 | 101.6 | 82.6 | 82.6 |
| 87.5° | 203.2 | 285.8 | 222.3 | 95.3 | 88.9 | 69.9 | 69.9 | 63.5 | 63.5 | 50.8 | 50.8 |
| 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: P599087
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 |
| 2.5° | 4007.4 | 4001.1 | 4001.1 | 3975.7 | 4039.2 | 4039.2 | 4077.3 | 4045.5 | 4064.6 | 4070.9 | 4121.8 |
| 5° | 3181.8 | 3232.6 | 3270.7 | 3346.9 | 3391.4 | 3410.4 | 3410.4 | 3461.3 | 3442.2 | 3480.3 | 3556.5 |
| 7.5° | 2330.8 | 2394.3 | 2508.6 | 2603.9 | 2680.1 | 2705.5 | 2699.1 | 2711.8 | 2730.9 | 2686.4 | 2699.1 |
| 10° | 1886.2 | 1841.8 | 1879.9 | 1968.8 | 2038.6 | 2121.2 | 2057.7 | 2051.3 | 2070.4 | 2051.3 | 2089.5 |
| 12.5° | 1575.0 | 1524.2 | 1492.5 | 1492.5 | 1543.3 | 1581.4 | 1562.3 | 1594.1 | 1663.9 | 1683.0 | 1727.5 |
| 15° | 1276.5 | 1232.1 | 1206.7 | 1174.9 | 1225.7 | 1238.4 | 1257.5 | 1301.9 | 1352.7 | 1378.2 | 1429.0 |
| 17.5° | 1022.5 | 1022.5 | 1022.5 | 997.1 | 1016.1 | 1035.2 | 1041.6 | 1098.7 | 1105.1 | 1130.5 | 1149.5 |
| 20° | 838.3 | 857.4 | 889.1 | 901.8 | 920.9 | 920.9 | 908.2 | 939.9 | 914.5 | 933.6 | 946.3 |
| 22.5° | 755.8 | 781.2 | 793.9 | 800.2 | 825.6 | 832.0 | 800.2 | 806.6 | 812.9 | 793.9 | 800.2 |
| 25° | 711.3 | 724.0 | 711.3 | 717.7 | 724.0 | 711.3 | 717.7 | 730.4 | 724.0 | 736.7 | 730.4 |
| 27.5° | 692.3 | 679.5 | 673.2 | 666.8 | 666.8 | 654.1 | 660.5 | 660.5 | 673.2 | 679.5 | 679.5 |
| 30° | 692.3 | 673.2 | 647.8 | 628.7 | 628.7 | 609.7 | 622.4 | 635.1 | 641.4 | 654.1 | 654.1 |
| 32.5° | 711.3 | 673.2 | 628.7 | 609.7 | 590.6 | 577.9 | 590.6 | 609.7 | 635.1 | 641.4 | 647.8 |
| 35° | 565.2 | 584.3 | 577.9 | 552.5 | 546.2 | 546.2 | 539.8 | 539.8 | 520.8 | 520.8 | 514.4 |
| 37.5° | 508.1 | 501.7 | 514.4 | 520.8 | 527.1 | 508.1 | 508.1 | 482.7 | 476.3 | 482.7 | 482.7 |
| 40° | 476.3 | 476.3 | 476.3 | 495.4 | 501.7 | 489.0 | 470.0 | 457.3 | 457.3 | 457.3 | 463.6 |
| 42.5° | 463.6 | 450.9 | 444.6 | 457.3 | 476.3 | 463.6 | 444.6 | 438.2 | 438.2 | 444.6 | 444.6 |
| 45° | 444.6 | 438.2 | 431.9 | 425.5 | 450.9 | 431.9 | 425.5 | 419.2 | 419.2 | 419.2 | 425.5 |
| 47.5° | 425.5 | 419.2 | 406.5 | 406.5 | 412.8 | 406.5 | 400.1 | 400.1 | 400.1 | 412.8 | 412.8 |
| 50° | 412.8 | 406.5 | 393.8 | 393.8 | 393.8 | 393.8 | 387.4 | 387.4 | 387.4 | 393.8 | 400.1 |
| 52.5° | 393.8 | 387.4 | 381.1 | 374.7 | 374.7 | 374.7 | 374.7 | 374.7 | 374.7 | 381.1 | 387.4 |
| 55° | 374.7 | 368.4 | 362.0 | 362.0 | 368.4 | 368.4 | 362.0 | 368.4 | 362.0 | 368.4 | 374.7 |
| 57.5° | 355.7 | 349.3 | 343.0 | 349.3 | 355.7 | 349.3 | 349.3 | 349.3 | 349.3 | 349.3 | 355.7 |
| 60° | 330.2 | 330.2 | 330.2 | 330.2 | 343.0 | 343.0 | 343.0 | 343.0 | 330.2 | 336.6 | 343.0 |
| 62.5° | 317.5 | 311.2 | 311.2 | 317.5 | 323.9 | 323.9 | 330.2 | 323.9 | 317.5 | 323.9 | 323.9 |
| 65° | 292.1 | 292.1 | 292.1 | 298.5 | 298.5 | 304.8 | 304.8 | 304.8 | 298.5 | 304.8 | 304.8 |
| 67.5° | 273.1 | 273.1 | 273.1 | 273.1 | 285.8 | 285.8 | 285.8 | 285.8 | 279.4 | 279.4 | 285.8 |
| 70° | 241.3 | 247.7 | 241.3 | 254.0 | 266.7 | 260.4 | 266.7 | 266.7 | 260.4 | 254.0 | 266.7 |
| 72.5° | 222.3 | 222.3 | 222.3 | 222.3 | 241.3 | 241.3 | 241.3 | 247.7 | 241.3 | 235.0 | 241.3 |
| 75° | 196.9 | 196.9 | 196.9 | 203.2 | 215.9 | 215.9 | 215.9 | 215.9 | 215.9 | 209.6 | 209.6 |
| 77.5° | 171.5 | 177.8 | 171.5 | 177.8 | 190.5 | 184.2 | 190.5 | 196.9 | 190.5 | 184.2 | 184.2 |
| 80° | 146.1 | 146.1 | 146.1 | 152.4 | 158.8 | 158.8 | 158.8 | 165.1 | 158.8 | 152.4 | 152.4 |
| 82.5° | 114.3 | 114.3 | 120.7 | 120.7 | 127.0 | 127.0 | 127.0 | 133.4 | 127.0 | 120.7 | 120.7 |
| 85° | 88.9 | 88.9 | 88.9 | 95.3 | 95.3 | 101.6 | 101.6 | 108.0 | 108.0 | 101.6 | 101.6 |
| 87.5° | 57.2 | 50.8 | 57.2 | 57.2 | 63.5 | 63.5 | 57.2 | 50.8 | 57.2 | 50.8 | 44.5 |
| 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: P599087
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 | 4572.7 |
| 2.5° | 4172.6 | 4286.9 | 4369.4 | 4426.6 | 4509.2 | 4667.9 | 4731.4 | 4845.8 | 4877.5 | 4896.6 |
| 5° | 3588.3 | 3708.9 | 3886.8 | 4013.8 | 4159.9 | 4458.4 | 4687.0 | 4858.5 | 4934.7 | 5004.5 |
| 7.5° | 2813.5 | 2972.2 | 3156.4 | 3321.5 | 3562.9 | 3931.2 | 4229.7 | 4585.4 | 4718.7 | 4788.6 |
| 10° | 2197.4 | 2343.5 | 2546.7 | 2750.0 | 3086.6 | 3397.7 | 3823.3 | 4147.2 | 4331.3 | 4382.1 |
| 12.5° | 1854.5 | 2025.9 | 2267.3 | 2515.0 | 2724.5 | 3080.2 | 3512.1 | 3982.0 | 4153.5 | 4185.3 |
| 15° | 1575.0 | 1810.0 | 2057.7 | 2311.7 | 2553.1 | 2864.3 | 3327.9 | 3899.5 | 4153.5 | 4185.3 |
| 17.5° | 1301.9 | 1511.5 | 1803.7 | 2076.8 | 2356.2 | 2781.7 | 3359.6 | 3969.3 | 4223.4 | 4318.6 |
| 20° | 1035.2 | 1238.4 | 1467.1 | 1810.0 | 2191.1 | 2642.0 | 3429.5 | 4204.3 | 4540.9 | 4642.5 |
| 22.5° | 857.4 | 946.3 | 1168.6 | 1498.8 | 1949.7 | 2546.7 | 3499.4 | 4572.7 | 4928.3 | 4966.4 |
| 25° | 749.4 | 812.9 | 952.6 | 1263.8 | 1759.2 | 2483.2 | 3664.5 | 4998.2 | 5455.4 | 5455.4 |
| 27.5° | 698.6 | 724.0 | 819.3 | 1098.7 | 1625.8 | 2426.1 | 3829.6 | 5468.1 | 5893.7 | 5982.6 |
| 30° | 685.9 | 749.4 | 800.2 | 978.0 | 1479.8 | 2267.3 | 3982.0 | 5836.5 | 6274.7 | 6281.1 |
| 32.5° | 673.2 | 660.5 | 698.6 | 851.0 | 1301.9 | 2102.2 | 4109.0 | 6211.2 | 6554.2 | 6573.2 |
| 35° | 527.1 | 552.5 | 616.0 | 749.4 | 1168.6 | 1981.5 | 4172.6 | 6414.4 | 6909.8 | 6928.9 |
| 37.5° | 495.4 | 527.1 | 577.9 | 692.3 | 1079.7 | 1879.9 | 4191.6 | 6808.2 | 7284.5 | 7322.6 |
| 40° | 482.7 | 508.1 | 546.2 | 641.4 | 1009.8 | 1752.9 | 4229.7 | 7214.7 | 7837.0 | 7786.2 |
| 42.5° | 457.3 | 489.0 | 527.1 | 616.0 | 952.6 | 1657.6 | 4236.1 | 7436.9 | 8129.2 | 8129.2 |
| 45° | 450.9 | 470.0 | 514.4 | 616.0 | 889.1 | 1575.0 | 4134.5 | 7659.2 | 8465.8 | 8364.2 |
| 47.5° | 425.5 | 463.6 | 501.7 | 597.0 | 812.9 | 1492.5 | 4013.8 | 7773.5 | 8510.2 | 8478.5 |
| 50° | 419.2 | 457.3 | 520.8 | 565.2 | 768.5 | 1454.4 | 3988.4 | 8059.3 | 8599.2 | 8592.8 |
| 52.5° | 406.5 | 444.6 | 539.8 | 539.8 | 711.3 | 1403.6 | 4109.0 | 8186.3 | 8618.2 | 8669.0 |
| 55° | 387.4 | 444.6 | 501.7 | 495.4 | 660.5 | 1340.0 | 4242.4 | 8516.6 | 8954.8 | 8942.1 |
| 57.5° | 374.7 | 431.9 | 476.3 | 450.9 | 603.3 | 1295.6 | 4439.3 | 8834.1 | 9361.3 | 9272.4 |
| 60° | 355.7 | 431.9 | 425.5 | 419.2 | 558.9 | 1257.5 | 4604.4 | 8897.6 | 9450.2 | 9507.3 |
| 62.5° | 343.0 | 450.9 | 374.7 | 387.4 | 520.8 | 1238.4 | 4534.6 | 8421.3 | 9329.5 | 9380.3 |
| 65° | 330.2 | 387.4 | 343.0 | 355.7 | 508.1 | 1200.3 | 4261.5 | 7849.7 | 8808.7 | 9031.0 |
| 67.5° | 304.8 | 317.5 | 317.5 | 330.2 | 495.4 | 1111.4 | 3702.6 | 6820.9 | 8014.9 | 8135.5 |
| 70° | 279.4 | 285.8 | 285.8 | 304.8 | 482.7 | 1009.8 | 3054.8 | 5900.0 | 6954.3 | 7182.9 |
| 72.5° | 254.0 | 254.0 | 254.0 | 279.4 | 444.6 | 927.2 | 2515.0 | 4534.6 | 5779.3 | 5938.1 |
| 75° | 222.3 | 222.3 | 222.3 | 247.7 | 400.1 | 844.7 | 1981.5 | 3372.3 | 4255.1 | 4483.8 |
| 77.5° | 196.9 | 196.9 | 190.5 | 222.3 | 349.3 | 685.9 | 1429.0 | 2381.6 | 2997.6 | 3188.2 |
| 80° | 165.1 | 158.8 | 158.8 | 177.8 | 273.1 | 495.4 | 920.9 | 1683.0 | 2089.5 | 2172.0 |
| 82.5° | 133.4 | 127.0 | 120.7 | 133.4 | 196.9 | 311.2 | 571.6 | 1174.9 | 1340.0 | 1289.2 |
| 85° | 127.0 | 133.4 | 108.0 | 101.6 | 139.7 | 203.2 | 362.0 | 724.0 | 603.3 | 603.3 |
| 87.5° | 50.8 | 44.5 | 44.5 | 38.1 | 69.9 | 76.2 | 158.8 | 133.4 | 101.6 | 101.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)