

Scaled data based on original data using
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: P484418

Luminaire Tested: **IFLD-M-SA4C-740-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

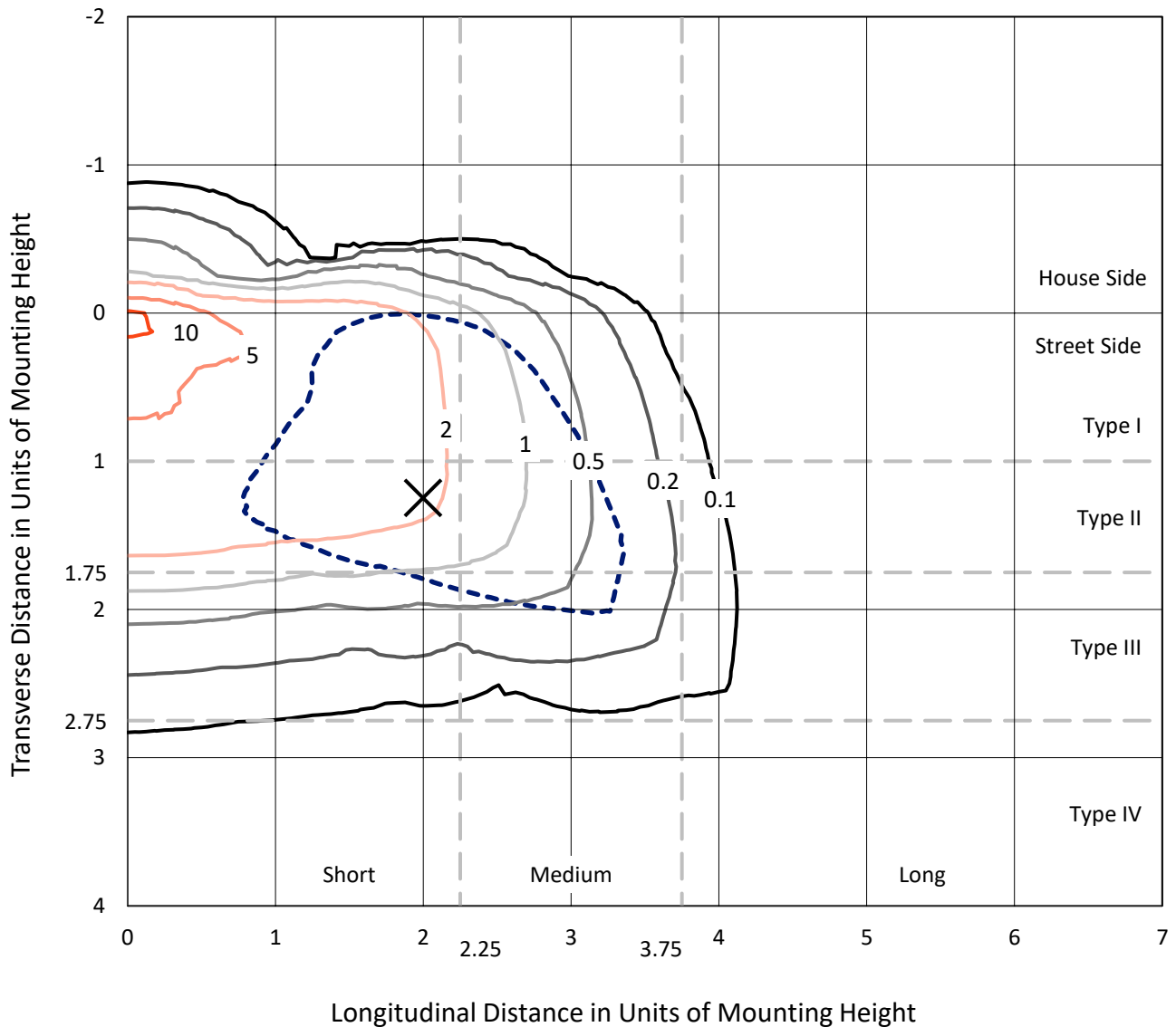
Lumens per Lamp: N/A
Luminaire Lumens: 23777.3 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

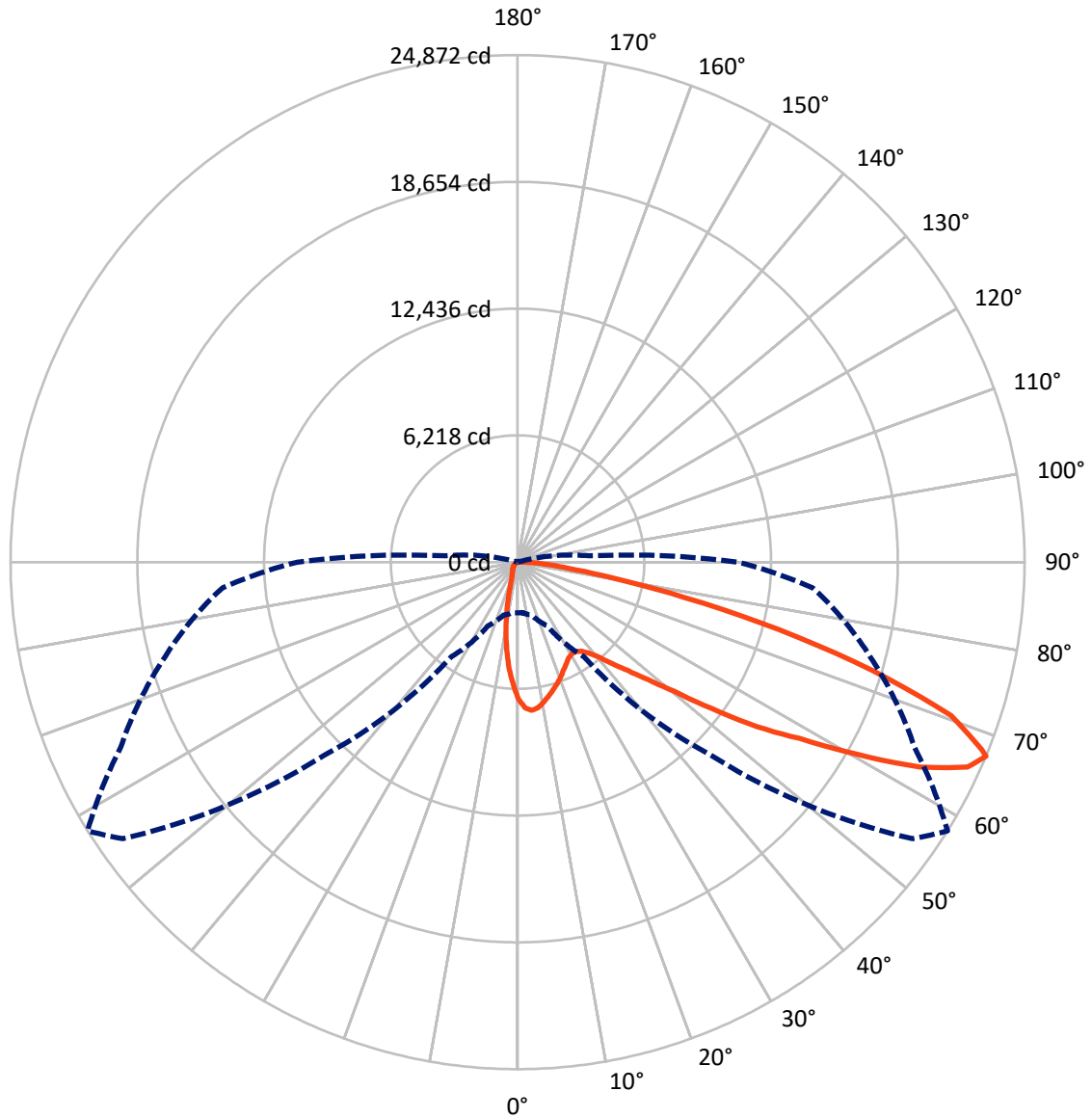
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1965.4 | 0.0 | 1965.4 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 21811.9 | 0.0 | 21811.9 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 23777.3 | 0.0 | 23777.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 534.5 | 2.2 |
| 10°-20° | 1108.7 | 4.7 |
| 20°-30° | 1471.0 | 6.2 |
| 30°-40° | 2038.3 | 8.6 |
| 40°-50° | 3325.9 | 14.0 |
| 50°-60° | 5845.8 | 24.6 |
| 60°-70° | 6474.7 | 27.2 |
| 70°-80° | 2683.1 | 11.3 |
| 80°-90° | 295.4 | 1.2 |
| 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°-90° | 23777.3 | 100.0 |
| 0°-180° | 23777.3 | 100.0 |

Coefficient of Utilization



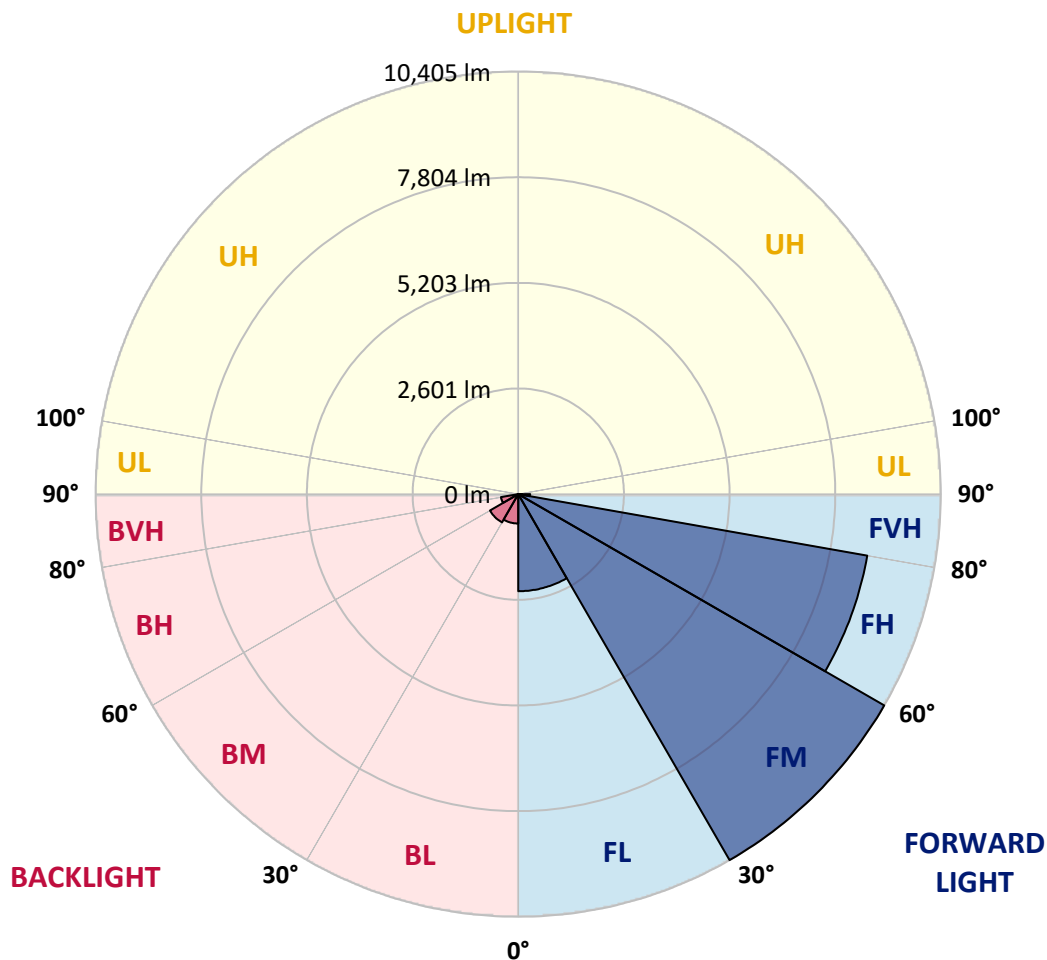
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2390.3 | 10.1 | | | |
| FM | (30°-60°) | 10405.4 | 43.8 | | | |
| FH | (60°-80°) | 8725.7 | 36.7 | | | G4/12000 |
| FVH | (80°-90°) | 290.5 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 723.9 | 3.0 | B2/1000 | | |
| BM | (30°-60°) | 804.5 | 3.4 | B1/1000 | | |
| BH | (60°-80°) | 432.1 | 1.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 4.9 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 |
| 2.5° | 7329.9 | 7355.1 | 7377.2 | 7336.2 | 7370.9 | 7320.4 | 7191.0 | 7162.6 | 7140.5 | 6947.9 | 6837.4 |
| 5° | 7326.7 | 7298.3 | 7320.4 | 7339.4 | 7292.0 | 7329.9 | 7298.3 | 7301.5 | 7216.2 | 7042.6 | 6733.3 |
| 7.5° | 6837.4 | 6824.8 | 6837.4 | 6929.0 | 7033.2 | 7115.2 | 7162.6 | 7209.9 | 7153.1 | 6894.3 | 6594.4 |
| 10° | 6177.7 | 6240.8 | 6275.5 | 6439.7 | 6600.7 | 6752.2 | 6900.6 | 6989.0 | 6973.2 | 6869.0 | 6442.9 |
| 12.5° | 5716.8 | 5697.9 | 5824.1 | 5931.5 | 6092.5 | 6398.7 | 6657.5 | 6739.6 | 6834.3 | 6689.1 | 6244.0 |
| 15° | 5290.7 | 5240.1 | 5315.9 | 5502.2 | 5776.8 | 6019.9 | 6382.9 | 6506.0 | 6625.9 | 6663.8 | 6136.7 |
| 17.5° | 4883.4 | 4908.7 | 4987.6 | 5154.9 | 5413.8 | 5754.7 | 6095.6 | 6272.4 | 6559.7 | 6509.1 | 5975.7 |
| 20° | 4687.7 | 4741.4 | 4769.8 | 4855.0 | 5035.0 | 5375.9 | 5884.1 | 6026.2 | 6332.4 | 6506.0 | 5817.8 |
| 22.5° | 4697.2 | 4697.2 | 4630.9 | 4681.4 | 4845.6 | 5110.7 | 5596.9 | 5754.7 | 6240.8 | 6341.8 | 5675.8 |
| 25° | 4798.2 | 4735.1 | 4738.2 | 4678.3 | 4747.7 | 4892.9 | 5338.0 | 5530.6 | 6054.6 | 6357.6 | 5600.0 |
| 27.5° | 4874.0 | 4861.3 | 4842.4 | 4826.6 | 4738.2 | 4760.3 | 5167.5 | 5325.4 | 5982.0 | 6338.7 | 5483.2 |
| 30° | 5148.6 | 5091.8 | 5072.8 | 5038.1 | 4921.3 | 4814.0 | 5031.8 | 5230.7 | 5925.2 | 6382.9 | 5416.9 |
| 32.5° | 5379.0 | 5388.5 | 5404.3 | 5303.3 | 5202.3 | 4937.1 | 5069.7 | 5227.5 | 5884.1 | 6483.9 | 5483.2 |
| 35° | 5669.5 | 5710.5 | 5716.8 | 5685.2 | 5577.9 | 5315.9 | 5227.5 | 5363.3 | 5953.6 | 6663.8 | 5489.5 |
| 37.5° | 6111.4 | 6067.2 | 6187.2 | 6199.8 | 6124.0 | 5776.8 | 5593.7 | 5647.4 | 6158.7 | 6951.1 | 5729.4 |
| 40° | 6398.7 | 6452.3 | 6676.5 | 6815.3 | 6685.9 | 6370.2 | 6124.0 | 6114.6 | 6455.5 | 7402.5 | 6026.2 |
| 42.5° | 6717.5 | 6837.4 | 7083.7 | 7383.6 | 7367.8 | 7074.2 | 6824.8 | 6783.8 | 6982.7 | 8055.9 | 6496.5 |
| 45° | 7153.1 | 7260.4 | 7604.5 | 8055.9 | 8302.2 | 8052.8 | 7677.1 | 7595.1 | 7623.5 | 8946.1 | 7298.3 |
| 47.5° | 7876.0 | 7847.6 | 8343.2 | 8788.3 | 9192.4 | 8999.8 | 8838.8 | 8598.9 | 8576.8 | 9994.2 | 8406.3 |
| 50° | 8693.6 | 8687.3 | 9129.2 | 9634.3 | 10101.5 | 10477.1 | 10208.8 | 9946.8 | 9953.1 | 11417.8 | 9710.1 |
| 52.5° | 9470.1 | 9593.3 | 10069.9 | 10571.8 | 11373.6 | 11777.7 | 12036.6 | 11932.4 | 11430.5 | 12690.0 | 11105.3 |
| 55° | 9880.5 | 9987.8 | 10461.4 | 11326.3 | 12592.1 | 13630.7 | 14331.5 | 14243.1 | 13274.0 | 14123.1 | 12481.6 |
| 57.5° | 9492.2 | 9564.8 | 10205.7 | 11338.9 | 13444.4 | 15761.5 | 16433.9 | 16323.4 | 15180.6 | 15218.5 | 14145.2 |
| 60° | 7866.5 | 7980.2 | 8933.5 | 10262.5 | 13113.0 | 17403.0 | 19328.6 | 19161.3 | 16916.8 | 16604.3 | 15215.4 |
| 62.5° | 5448.5 | 5524.2 | 6307.1 | 7961.2 | 11540.9 | 17974.3 | 22062.3 | 22153.8 | 18747.7 | 17683.9 | 15534.2 |
| 65° | 3529.2 | 3522.9 | 3971.1 | 5091.8 | 8179.0 | 16244.5 | 23678.5 | 24246.7 | 20515.5 | 17848.1 | 15436.3 |
| 67° | 2493.8 | 2484.3 | 2695.8 | 3453.4 | 5663.1 | 13384.5 | 23650.1 | 24871.7 | 21475.1 | 17895.4 | 14530.4 |
| 67.5° | 2301.2 | 2291.8 | 2493.8 | 3175.7 | 5110.7 | 12446.9 | 23296.5 | 24549.8 | 21812.9 | 17829.1 | 14132.6 |
| 70° | 1786.7 | 1761.4 | 1837.2 | 2187.6 | 2976.8 | 8049.6 | 19937.8 | 22551.6 | 21112.1 | 16175.0 | 11285.3 |
| 72.5° | 1291.1 | 1319.5 | 1439.5 | 1796.2 | 2336.0 | 4331.0 | 15196.4 | 18236.3 | 17633.4 | 12191.2 | 7172.1 |
| 75° | 899.7 | 924.9 | 1117.5 | 1464.7 | 2143.4 | 2626.4 | 10275.1 | 13226.6 | 12282.8 | 6730.1 | 3055.7 |
| 77.5° | 470.4 | 501.9 | 713.4 | 1171.1 | 1947.7 | 2032.9 | 6139.8 | 8387.4 | 6509.1 | 2395.9 | 842.8 |
| 80° | 217.8 | 233.6 | 356.7 | 830.2 | 1628.9 | 1786.7 | 3579.7 | 4665.6 | 2604.3 | 536.6 | 290.4 |
| 82.5° | 94.7 | 104.2 | 164.1 | 476.7 | 1155.4 | 1562.6 | 2216.0 | 2446.5 | 943.9 | 173.6 | 179.9 |
| 85° | 18.9 | 22.1 | 63.1 | 252.5 | 558.7 | 947.0 | 1556.3 | 1452.1 | 473.5 | 85.2 | 142.1 |
| 87.5° | 0.0 | 0.0 | 15.8 | 72.6 | 151.5 | 280.9 | 659.8 | 659.8 | 145.2 | 44.2 | 53.7 |
| 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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CATALOG NUMBER: IFLD-M-SA4C-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 | 6736.4 |
| 2.5° | 6739.6 | 6625.9 | 6376.6 | 6146.1 | 5982.0 | 5795.7 | 5549.5 | 5439.0 | 5398.0 | 5341.2 | 5255.9 |
| 5° | 6562.8 | 6423.9 | 5997.8 | 5568.4 | 5098.1 | 4741.4 | 4362.6 | 4141.6 | 3974.3 | 3870.1 | 3835.4 |
| 7.5° | 6313.4 | 6029.3 | 5454.8 | 4766.6 | 4157.4 | 3627.1 | 3052.5 | 2664.3 | 2414.9 | 2313.9 | 2219.2 |
| 10° | 6114.6 | 5745.2 | 4870.8 | 4015.3 | 3204.1 | 2427.5 | 1780.4 | 1439.5 | 1180.6 | 1082.8 | 1070.1 |
| 12.5° | 5855.7 | 5413.8 | 4324.7 | 3248.3 | 2228.6 | 1445.8 | 984.9 | 855.5 | 782.9 | 770.2 | 760.8 |
| 15° | 5641.0 | 5113.9 | 3807.0 | 2515.9 | 1442.6 | 902.8 | 767.1 | 735.5 | 716.6 | 710.3 | 713.4 |
| 17.5° | 5495.8 | 4791.9 | 3276.7 | 1830.9 | 950.2 | 738.7 | 707.1 | 688.2 | 678.7 | 675.5 | 666.1 |
| 20° | 5208.6 | 4520.4 | 2752.7 | 1281.6 | 741.8 | 681.9 | 656.6 | 640.8 | 631.3 | 628.2 | 625.0 |
| 22.5° | 5044.4 | 4176.3 | 2228.6 | 893.4 | 659.8 | 618.7 | 599.8 | 587.1 | 571.4 | 561.9 | 558.7 |
| 25° | 4880.3 | 3923.8 | 1761.4 | 694.5 | 599.8 | 571.4 | 543.0 | 527.2 | 501.9 | 489.3 | 486.1 |
| 27.5° | 4687.7 | 3674.4 | 1357.4 | 602.9 | 539.8 | 511.4 | 483.0 | 457.7 | 426.2 | 413.5 | 407.2 |
| 30° | 4577.2 | 3431.3 | 1022.8 | 539.8 | 495.6 | 457.7 | 423.0 | 391.4 | 356.7 | 334.6 | 328.3 |
| 32.5° | 4520.4 | 3210.4 | 767.1 | 492.4 | 448.3 | 407.2 | 363.0 | 325.1 | 293.6 | 274.6 | 271.5 |
| 35° | 4451.0 | 2995.7 | 602.9 | 448.3 | 404.1 | 359.9 | 315.7 | 277.8 | 246.2 | 230.4 | 224.1 |
| 37.5° | 4523.6 | 2869.5 | 501.9 | 413.5 | 369.3 | 318.8 | 271.5 | 233.6 | 208.3 | 192.6 | 189.4 |
| 40° | 4722.4 | 2765.3 | 435.6 | 382.0 | 334.6 | 280.9 | 236.8 | 198.9 | 176.8 | 164.1 | 157.8 |
| 42.5° | 5028.6 | 2765.3 | 394.6 | 350.4 | 303.0 | 246.2 | 202.0 | 173.6 | 151.5 | 138.9 | 135.7 |
| 45° | 5584.2 | 2850.5 | 359.9 | 318.8 | 265.2 | 211.5 | 173.6 | 145.2 | 123.1 | 110.5 | 107.3 |
| 47.5° | 6363.9 | 3046.2 | 331.5 | 290.4 | 236.8 | 186.2 | 151.5 | 123.1 | 101.0 | 88.4 | 85.2 |
| 50° | 7412.0 | 3491.3 | 303.0 | 255.7 | 211.5 | 161.0 | 126.3 | 97.9 | 78.9 | 66.3 | 63.1 |
| 52.5° | 8718.8 | 4122.7 | 274.6 | 236.8 | 179.9 | 135.7 | 101.0 | 78.9 | 60.0 | 50.5 | 47.4 |
| 55° | 10101.5 | 4896.1 | 239.9 | 211.5 | 154.7 | 113.6 | 82.1 | 60.0 | 44.2 | 37.9 | 34.7 |
| 57.5° | 11493.6 | 5492.7 | 211.5 | 183.1 | 126.3 | 91.5 | 66.3 | 47.4 | 31.6 | 25.3 | 22.1 |
| 60° | 12232.3 | 5549.5 | 183.1 | 151.5 | 101.0 | 72.6 | 50.5 | 34.7 | 22.1 | 15.8 | 12.6 |
| 62.5° | 12345.9 | 5044.4 | 157.8 | 123.1 | 82.1 | 56.8 | 34.7 | 25.3 | 12.6 | 6.3 | 6.3 |
| 65° | 11761.9 | 4204.7 | 135.7 | 97.9 | 63.1 | 41.0 | 25.3 | 15.8 | 6.3 | 3.2 | 0.0 |
| 67° | 10814.9 | 3522.9 | 116.8 | 82.1 | 50.5 | 31.6 | 18.9 | 9.5 | 3.2 | 0.0 | 0.0 |
| 67.5° | 10448.7 | 3333.5 | 110.5 | 75.8 | 47.4 | 28.4 | 15.8 | 9.5 | 3.2 | 0.0 | 0.0 |
| 70° | 8109.6 | 2380.2 | 82.1 | 53.7 | 34.7 | 22.1 | 12.6 | 6.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4968.7 | 1392.1 | 63.1 | 37.9 | 25.3 | 15.8 | 9.5 | 3.2 | 0.0 | 0.0 | 0.0 |
| 75° | 2083.4 | 479.8 | 53.7 | 28.4 | 18.9 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 |
| 77.5° | 543.0 | 179.9 | 37.9 | 18.9 | 12.6 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 |
| 80° | 221.0 | 82.1 | 25.3 | 12.6 | 12.6 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 145.2 | 37.9 | 15.8 | 12.6 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 110.5 | 22.1 | 9.5 | 9.5 | 6.3 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 47.4 | 12.6 | 9.5 | 6.3 | 6.3 | 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 |

(END OF REPORT)