

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: P484496

Luminaire Tested: **IFLD-M-SA4C-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484496
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-760-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

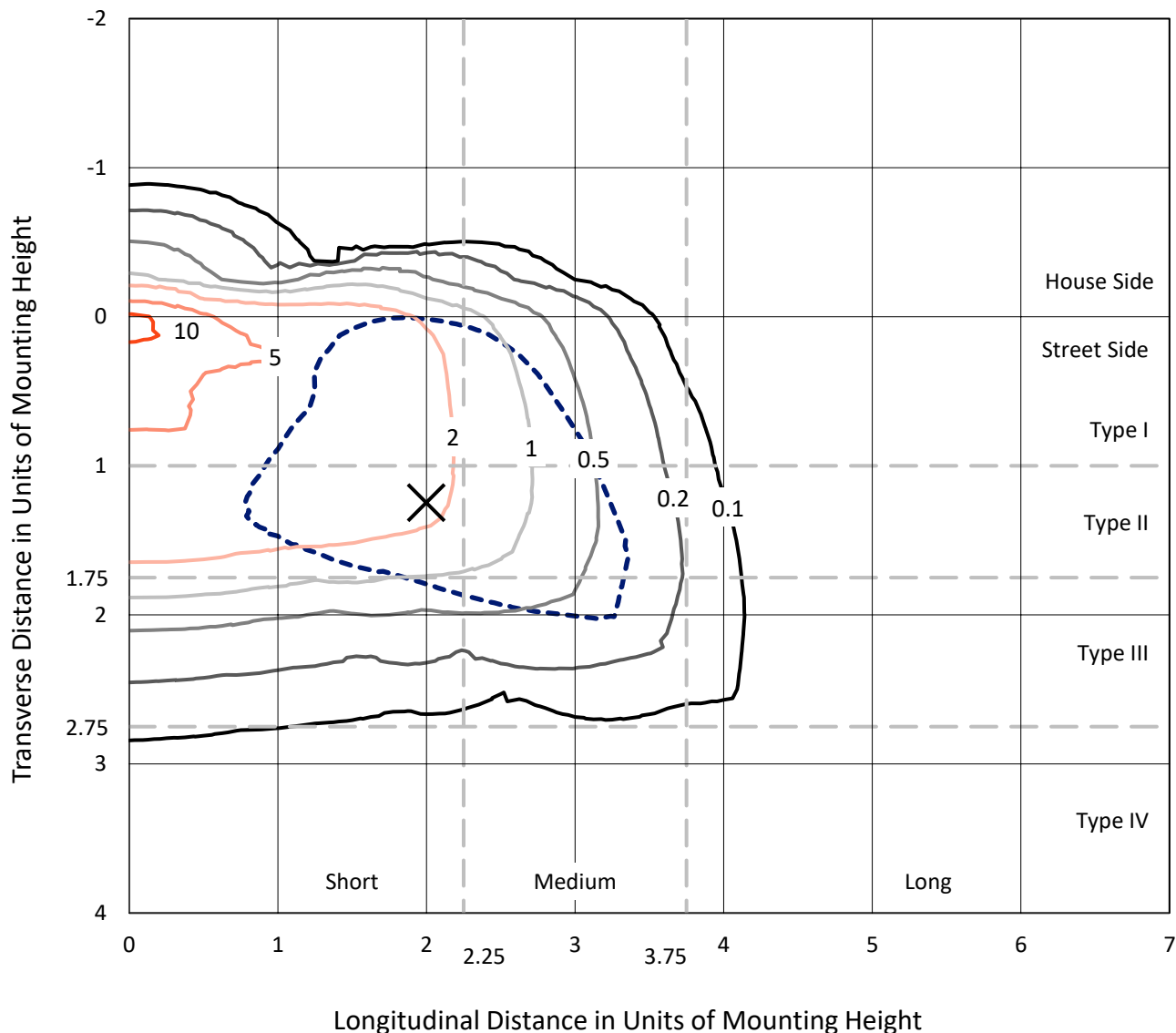
Lumens per Lamp: N/A
Luminaire Lumens: 24321.8 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

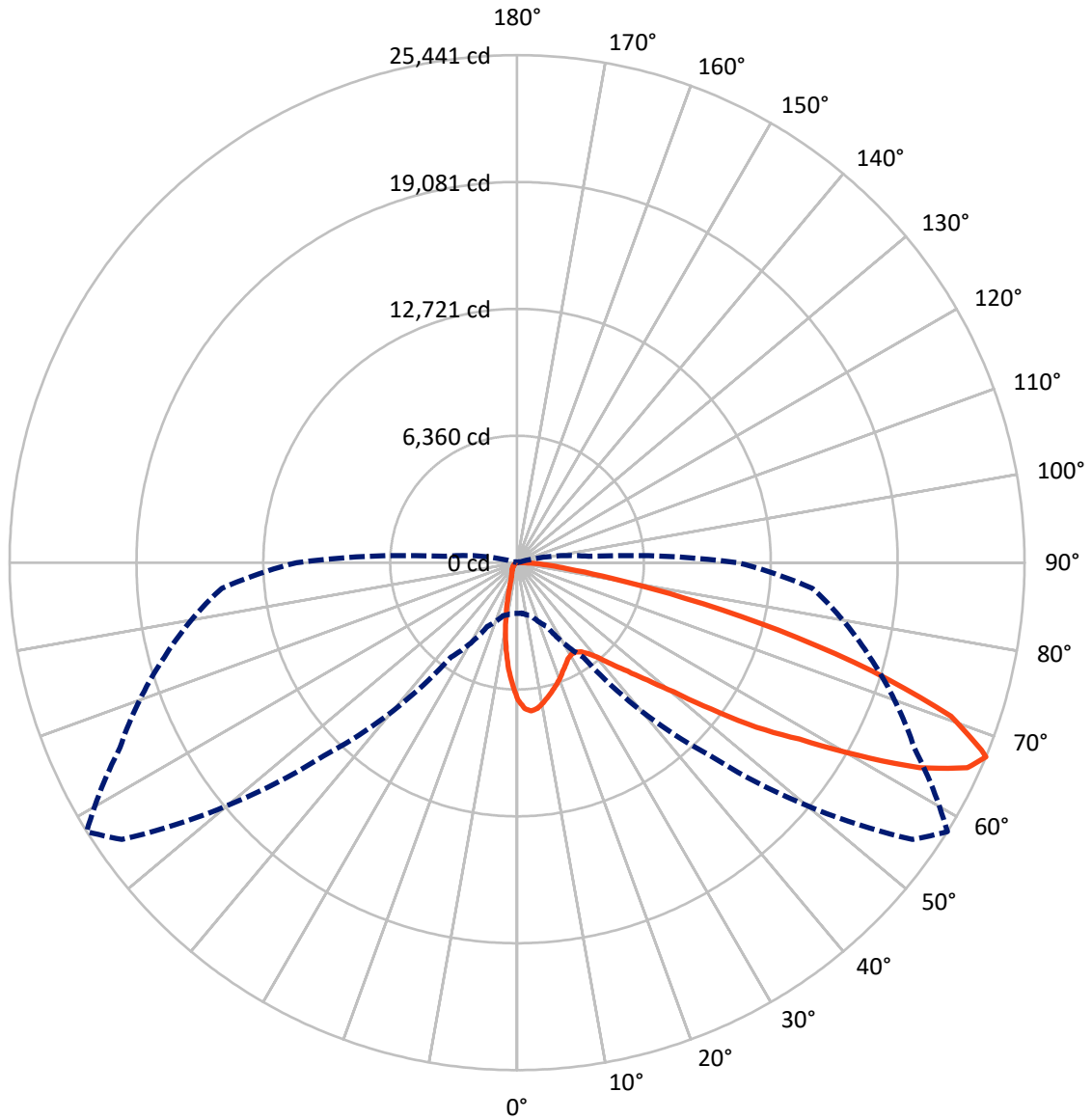
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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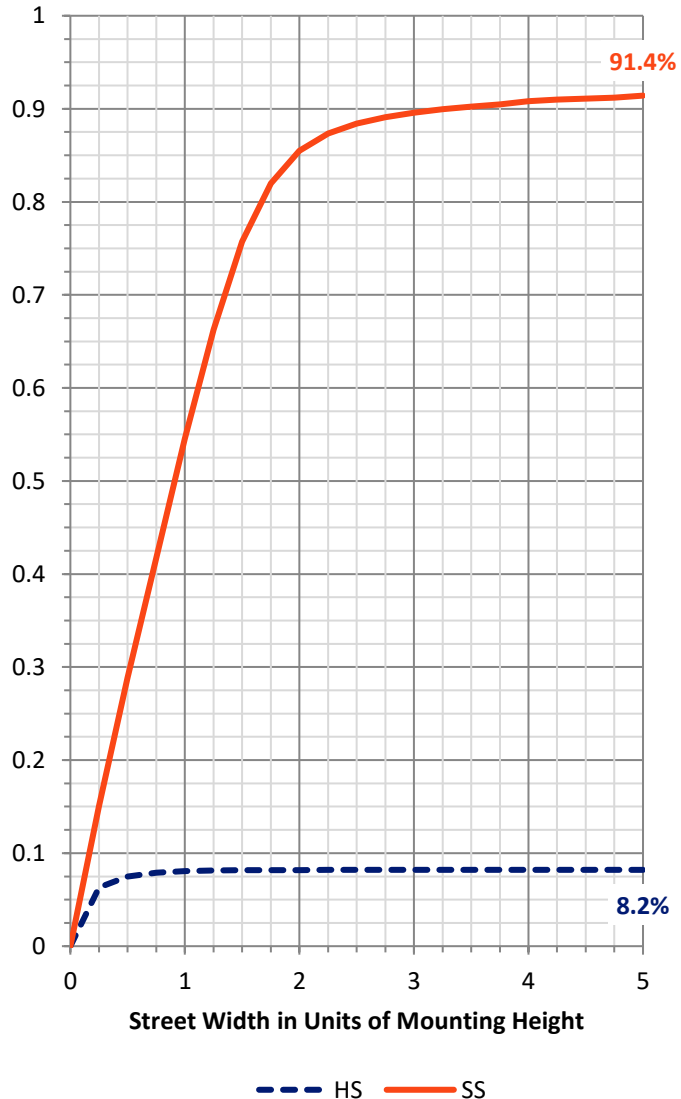
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2010.4 | 0.0 | 2010.4 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 22311.4 | 0.0 | 22311.4 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 24321.8 | 0.0 | 24321.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 546.7 | 2.2 |
| 10°-20° | 1134.1 | 4.7 |
| 20°-30° | 1504.6 | 6.2 |
| 30°-40° | 2084.9 | 8.6 |
| 40°-50° | 3402.0 | 14.0 |
| 50°-60° | 5979.7 | 24.6 |
| 60°-70° | 6623.0 | 27.2 |
| 70°-80° | 2744.6 | 11.3 |
| 80°-90° | 302.1 | 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° | 24321.8 | 100.0 |
| 0°-180° | 24321.8 | 100.0 |

Coefficient of Utilization



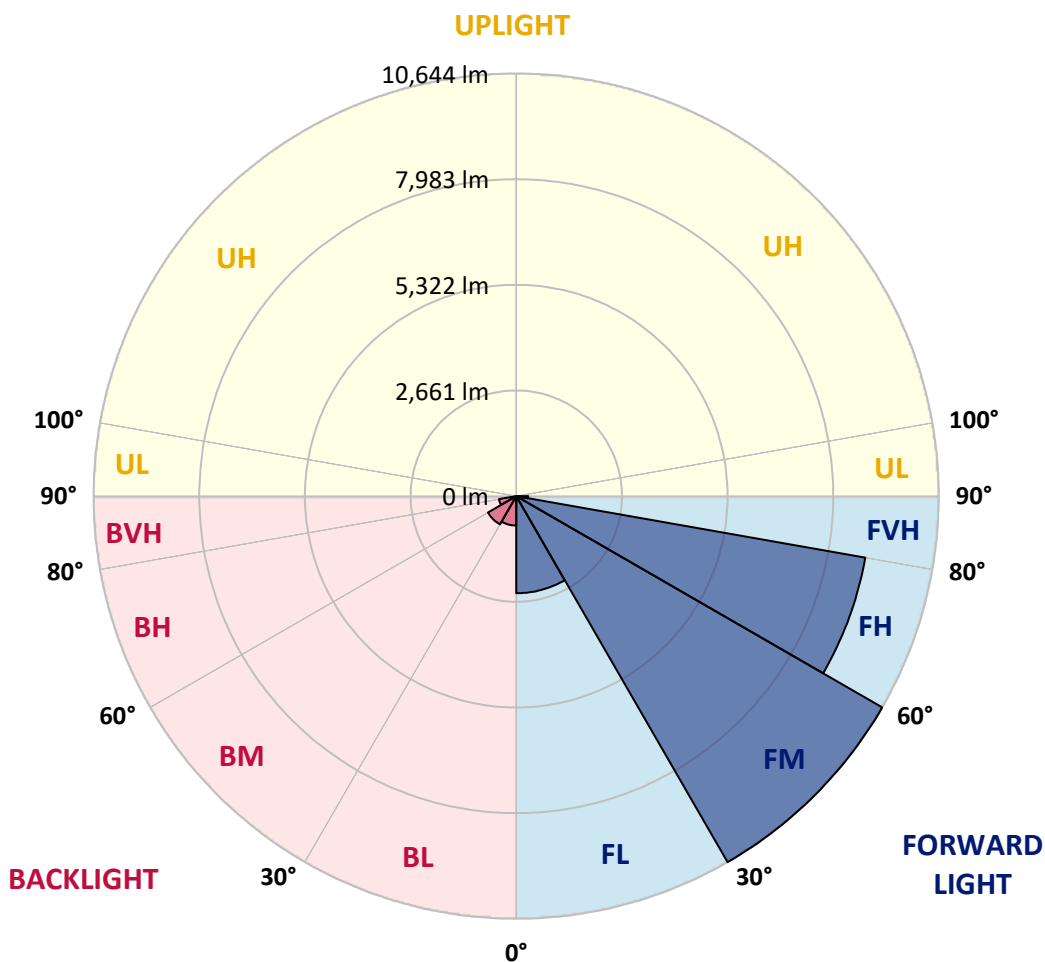
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2445.0 | 10.1 | | | |
| FM (30°-60°) | 10643.7 | 43.8 | | | |
| FH (60°-80°) | 8925.5 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 297.2 | 1.2 | | | G3/500 |
| BL (0°-30°) | 740.4 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 823.0 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 442.0 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 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° | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 |
| 2.5° | 7497.7 | 7523.6 | 7546.2 | 7504.2 | 7539.7 | 7488.1 | 7355.7 | 7326.6 | 7304.0 | 7107.0 | 6994.0 |
| 5° | 7494.5 | 7465.5 | 7488.1 | 7507.4 | 7459.0 | 7497.7 | 7465.5 | 7468.7 | 7381.5 | 7203.9 | 6887.5 |
| 7.5° | 6994.0 | 6981.1 | 6994.0 | 7087.7 | 7194.2 | 7278.2 | 7326.6 | 7375.0 | 7316.9 | 7052.1 | 6745.4 |
| 10° | 6319.2 | 6383.7 | 6419.3 | 6587.2 | 6751.8 | 6906.8 | 7058.6 | 7149.0 | 7132.9 | 7026.3 | 6590.4 |
| 12.5° | 5847.7 | 5828.4 | 5957.5 | 6067.3 | 6232.0 | 6545.2 | 6810.0 | 6893.9 | 6990.8 | 6842.3 | 6387.0 |
| 15° | 5411.8 | 5360.1 | 5437.6 | 5628.2 | 5909.1 | 6157.7 | 6529.0 | 6655.0 | 6777.7 | 6816.4 | 6277.2 |
| 17.5° | 4995.3 | 5021.1 | 5101.8 | 5273.0 | 5537.7 | 5886.5 | 6235.2 | 6416.0 | 6709.9 | 6658.2 | 6112.5 |
| 20° | 4795.1 | 4850.0 | 4879.0 | 4966.2 | 5150.3 | 5499.0 | 6018.9 | 6164.2 | 6477.4 | 6655.0 | 5951.1 |
| 22.5° | 4804.8 | 4804.8 | 4736.9 | 4788.6 | 4956.5 | 5227.8 | 5725.0 | 5886.5 | 6383.7 | 6487.1 | 5805.7 |
| 25° | 4908.1 | 4843.5 | 4846.7 | 4785.4 | 4856.4 | 5005.0 | 5460.2 | 5657.2 | 6193.2 | 6503.2 | 5728.3 |
| 27.5° | 4985.6 | 4972.7 | 4953.3 | 4937.1 | 4846.7 | 4869.3 | 5285.9 | 5447.3 | 6119.0 | 6483.8 | 5608.8 |
| 30° | 5266.5 | 5208.4 | 5189.0 | 5153.5 | 5034.0 | 4924.2 | 5147.0 | 5350.5 | 6060.8 | 6529.0 | 5541.0 |
| 32.5° | 5502.2 | 5511.9 | 5528.1 | 5424.7 | 5321.4 | 5050.2 | 5185.8 | 5347.2 | 6018.9 | 6632.4 | 5608.8 |
| 35° | 5799.3 | 5841.3 | 5847.7 | 5815.4 | 5705.6 | 5437.6 | 5347.2 | 5486.1 | 6089.9 | 6816.4 | 5615.2 |
| 37.5° | 6251.3 | 6206.1 | 6328.8 | 6341.8 | 6264.3 | 5909.1 | 5721.8 | 5776.7 | 6299.8 | 7110.3 | 5860.6 |
| 40° | 6545.2 | 6600.1 | 6829.3 | 6971.4 | 6839.0 | 6516.1 | 6264.3 | 6254.6 | 6603.3 | 7572.0 | 6164.2 |
| 42.5° | 6871.3 | 6994.0 | 7245.9 | 7552.6 | 7536.5 | 7236.2 | 6981.1 | 6939.1 | 7142.6 | 8240.4 | 6645.3 |
| 45° | 7316.9 | 7426.7 | 7778.7 | 8240.4 | 8492.3 | 8237.2 | 7852.9 | 7769.0 | 7798.0 | 9151.0 | 7465.5 |
| 47.5° | 8056.4 | 8027.3 | 8534.3 | 8989.5 | 9402.9 | 9205.9 | 9041.2 | 8795.8 | 8773.2 | 10223.0 | 8598.8 |
| 50° | 8892.7 | 8886.2 | 9338.3 | 9854.9 | 10332.8 | 10717.1 | 10442.6 | 10174.6 | 10181.0 | 11679.3 | 9932.4 |
| 52.5° | 9687.0 | 9812.9 | 10300.5 | 10813.9 | 11634.1 | 12047.4 | 12312.2 | 12205.6 | 11692.2 | 12980.6 | 11359.6 |
| 55° | 10106.8 | 10216.6 | 10700.9 | 11585.7 | 12880.5 | 13942.8 | 14659.7 | 14569.3 | 13578.0 | 14446.6 | 12767.5 |
| 57.5° | 9709.6 | 9783.9 | 10439.4 | 11598.6 | 13752.3 | 16122.4 | 16810.2 | 16697.2 | 15528.3 | 15567.0 | 14469.2 |
| 60° | 8046.7 | 8162.9 | 9138.1 | 10497.5 | 13413.3 | 17801.5 | 19771.2 | 19600.0 | 17304.2 | 16984.6 | 15563.8 |
| 62.5° | 5573.3 | 5650.8 | 6451.5 | 8143.5 | 11805.2 | 18385.9 | 22567.5 | 22661.1 | 19177.0 | 18088.9 | 15889.9 |
| 65° | 3610.0 | 3603.6 | 4062.1 | 5208.4 | 8366.3 | 16616.4 | 24220.7 | 24802.0 | 20985.3 | 18256.8 | 15789.8 |
| 67° | 2550.9 | 2541.2 | 2757.6 | 3532.5 | 5792.8 | 13691.0 | 24191.7 | 25441.3 | 21966.9 | 18305.2 | 14863.1 |
| 67.5° | 2353.9 | 2344.3 | 2550.9 | 3248.4 | 5227.8 | 12732.0 | 23830.0 | 25112.0 | 22312.4 | 18237.4 | 14456.2 |
| 70° | 1827.6 | 1801.8 | 1879.3 | 2237.7 | 3044.9 | 8234.0 | 20394.4 | 23068.0 | 21595.6 | 16545.4 | 11543.7 |
| 72.5° | 1320.7 | 1349.7 | 1472.4 | 1837.3 | 2389.5 | 4430.2 | 15544.4 | 18653.9 | 18037.2 | 12470.4 | 7336.3 |
| 75° | 920.3 | 946.1 | 1143.1 | 1498.3 | 2192.5 | 2686.5 | 10510.4 | 13529.5 | 12564.0 | 6884.2 | 3125.7 |
| 77.5° | 481.1 | 513.4 | 729.8 | 1198.0 | 1992.3 | 2079.5 | 6280.4 | 8579.5 | 6658.2 | 2450.8 | 862.1 |
| 80° | 222.8 | 238.9 | 364.9 | 849.2 | 1666.2 | 1827.6 | 3661.7 | 4772.5 | 2663.9 | 548.9 | 297.1 |
| 82.5° | 96.9 | 106.6 | 167.9 | 487.6 | 1181.8 | 1598.4 | 2266.8 | 2502.5 | 965.5 | 177.6 | 184.1 |
| 85° | 19.4 | 22.6 | 64.6 | 258.3 | 571.5 | 968.7 | 1591.9 | 1485.3 | 484.4 | 87.2 | 145.3 |
| 87.5° | 0.0 | 0.0 | 16.1 | 74.3 | 155.0 | 287.4 | 674.9 | 674.9 | 148.5 | 45.2 | 54.9 |
| 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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CATALOG NUMBER: IFLD-M-SA4C-760-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 | 6890.7 |
| 2.5° | 6893.9 | 6777.7 | 6522.6 | 6286.9 | 6119.0 | 5928.4 | 5676.6 | 5563.6 | 5521.6 | 5463.5 | 5376.3 |
| 5° | 6713.1 | 6571.0 | 6135.1 | 5696.0 | 5214.8 | 4850.0 | 4462.5 | 4236.5 | 4065.3 | 3958.8 | 3923.2 |
| 7.5° | 6458.0 | 6167.4 | 5579.7 | 4875.8 | 4252.6 | 3710.1 | 3122.4 | 2725.3 | 2470.2 | 2366.9 | 2270.0 |
| 10° | 6254.6 | 5876.8 | 4982.4 | 4107.3 | 3277.4 | 2483.1 | 1821.2 | 1472.4 | 1207.6 | 1107.5 | 1094.6 |
| 12.5° | 5989.8 | 5537.7 | 4423.7 | 3322.6 | 2279.7 | 1478.9 | 1007.4 | 875.1 | 800.8 | 787.9 | 778.2 |
| 15° | 5770.2 | 5231.0 | 3894.2 | 2573.5 | 1475.7 | 923.5 | 784.6 | 752.4 | 733.0 | 726.5 | 729.8 |
| 17.5° | 5621.7 | 4901.6 | 3351.7 | 1872.8 | 971.9 | 755.6 | 723.3 | 703.9 | 694.2 | 691.0 | 681.3 |
| 20° | 5327.9 | 4623.9 | 2815.7 | 1311.0 | 758.8 | 697.5 | 671.6 | 655.5 | 645.8 | 642.6 | 639.3 |
| 22.5° | 5159.9 | 4272.0 | 2279.7 | 913.8 | 674.9 | 632.9 | 613.5 | 600.6 | 584.4 | 574.8 | 571.5 |
| 25° | 4992.0 | 4013.7 | 1801.8 | 710.4 | 613.5 | 584.4 | 555.4 | 539.2 | 513.4 | 500.5 | 497.3 |
| 27.5° | 4795.1 | 3758.6 | 1388.5 | 616.7 | 552.2 | 523.1 | 494.0 | 468.2 | 435.9 | 423.0 | 416.5 |
| 30° | 4682.1 | 3509.9 | 1046.2 | 552.2 | 507.0 | 468.2 | 432.7 | 400.4 | 364.9 | 342.3 | 335.8 |
| 32.5° | 4623.9 | 3283.9 | 784.6 | 503.7 | 458.5 | 416.5 | 371.3 | 332.6 | 300.3 | 280.9 | 277.7 |
| 35° | 4552.9 | 3064.3 | 616.7 | 458.5 | 413.3 | 368.1 | 322.9 | 284.2 | 251.9 | 235.7 | 229.3 |
| 37.5° | 4627.2 | 2935.2 | 513.4 | 423.0 | 377.8 | 326.1 | 277.7 | 238.9 | 213.1 | 197.0 | 193.7 |
| 40° | 4830.6 | 2828.6 | 445.6 | 390.7 | 342.3 | 287.4 | 242.2 | 203.4 | 180.8 | 167.9 | 161.5 |
| 42.5° | 5143.8 | 2828.6 | 403.6 | 358.4 | 310.0 | 251.9 | 206.7 | 177.6 | 155.0 | 142.1 | 138.8 |
| 45° | 5712.1 | 2915.8 | 368.1 | 326.1 | 271.2 | 216.3 | 177.6 | 148.5 | 125.9 | 113.0 | 109.8 |
| 47.5° | 6509.7 | 3116.0 | 339.0 | 297.1 | 242.2 | 190.5 | 155.0 | 125.9 | 103.3 | 90.4 | 87.2 |
| 50° | 7581.7 | 3571.3 | 310.0 | 261.5 | 216.3 | 164.7 | 129.2 | 100.1 | 80.7 | 67.8 | 64.6 |
| 52.5° | 8918.5 | 4217.1 | 280.9 | 242.2 | 184.1 | 138.8 | 103.3 | 80.7 | 61.4 | 51.7 | 48.4 |
| 55° | 10332.8 | 5008.2 | 245.4 | 216.3 | 158.2 | 116.2 | 84.0 | 61.4 | 45.2 | 38.7 | 35.5 |
| 57.5° | 11756.8 | 5618.5 | 216.3 | 187.3 | 129.2 | 93.6 | 67.8 | 48.4 | 32.3 | 25.8 | 22.6 |
| 60° | 12512.4 | 5676.6 | 187.3 | 155.0 | 103.3 | 74.3 | 51.7 | 35.5 | 22.6 | 16.1 | 12.9 |
| 62.5° | 12628.6 | 5159.9 | 161.5 | 125.9 | 84.0 | 58.1 | 35.5 | 25.8 | 12.9 | 6.5 | 6.5 |
| 65° | 12031.3 | 4301.0 | 138.8 | 100.1 | 64.6 | 42.0 | 25.8 | 16.1 | 6.5 | 3.2 | 0.0 |
| 67° | 11062.6 | 3603.6 | 119.5 | 84.0 | 51.7 | 32.3 | 19.4 | 9.7 | 3.2 | 0.0 | 0.0 |
| 67.5° | 10688.0 | 3409.8 | 113.0 | 77.5 | 48.4 | 29.1 | 16.1 | 9.7 | 3.2 | 0.0 | 0.0 |
| 70° | 8295.3 | 2434.7 | 84.0 | 54.9 | 35.5 | 22.6 | 12.9 | 6.5 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5082.5 | 1424.0 | 64.6 | 38.7 | 25.8 | 16.1 | 9.7 | 3.2 | 0.0 | 0.0 | 0.0 |
| 75° | 2131.1 | 490.8 | 54.9 | 29.1 | 19.4 | 9.7 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 |
| 77.5° | 555.4 | 184.1 | 38.7 | 19.4 | 12.9 | 9.7 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 |
| 80° | 226.0 | 84.0 | 25.8 | 12.9 | 12.9 | 9.7 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 |
| 82.5° | 148.5 | 38.7 | 16.1 | 12.9 | 9.7 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 113.0 | 22.6 | 9.7 | 9.7 | 6.5 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 48.4 | 12.9 | 9.7 | 6.5 | 6.5 | 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)