

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: P484416

Luminaire Tested: **IFLD-M-SA4A-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484416
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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

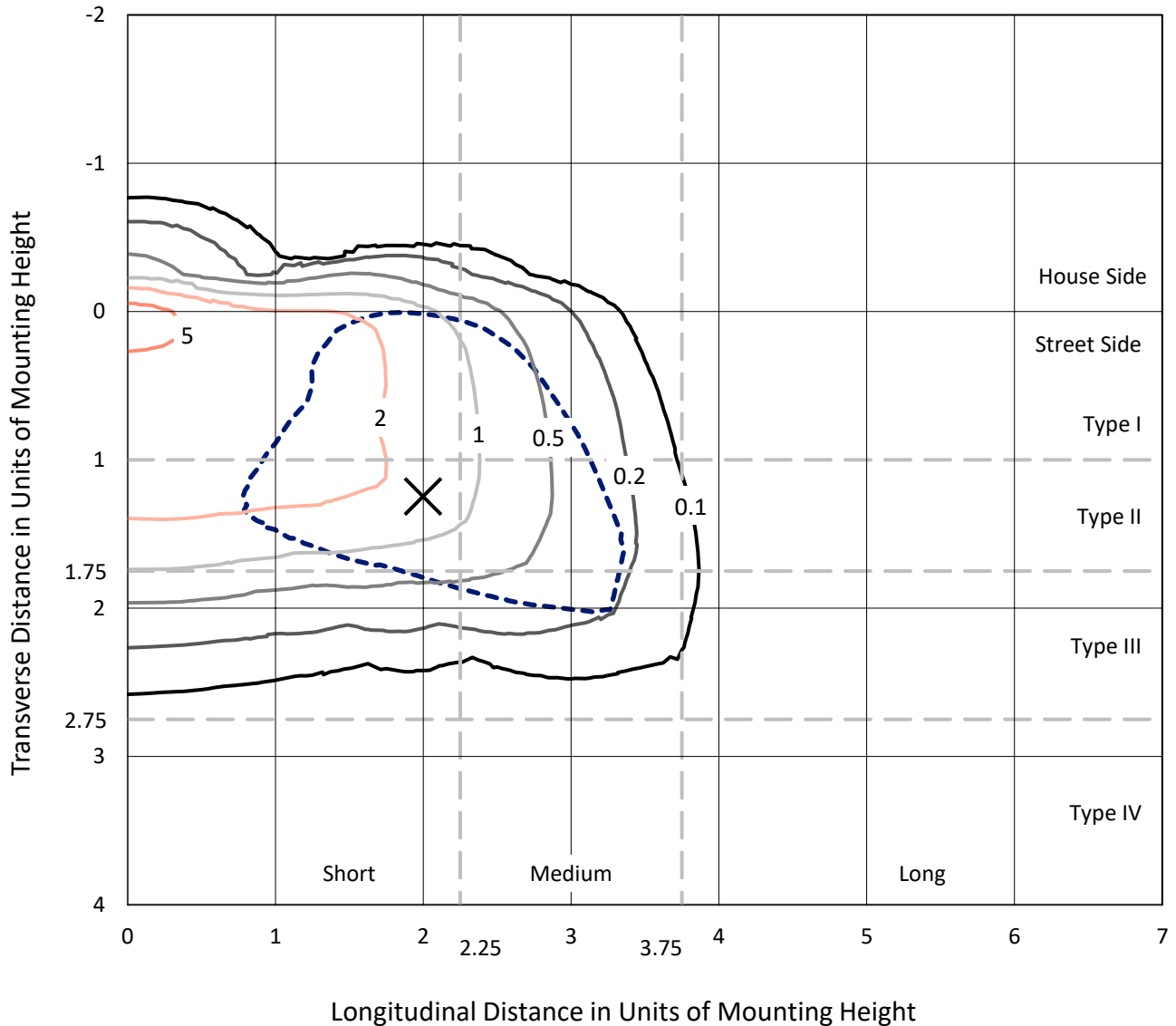
Lumens per Lamp: N/A
Luminaire Lumens: 15444.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
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

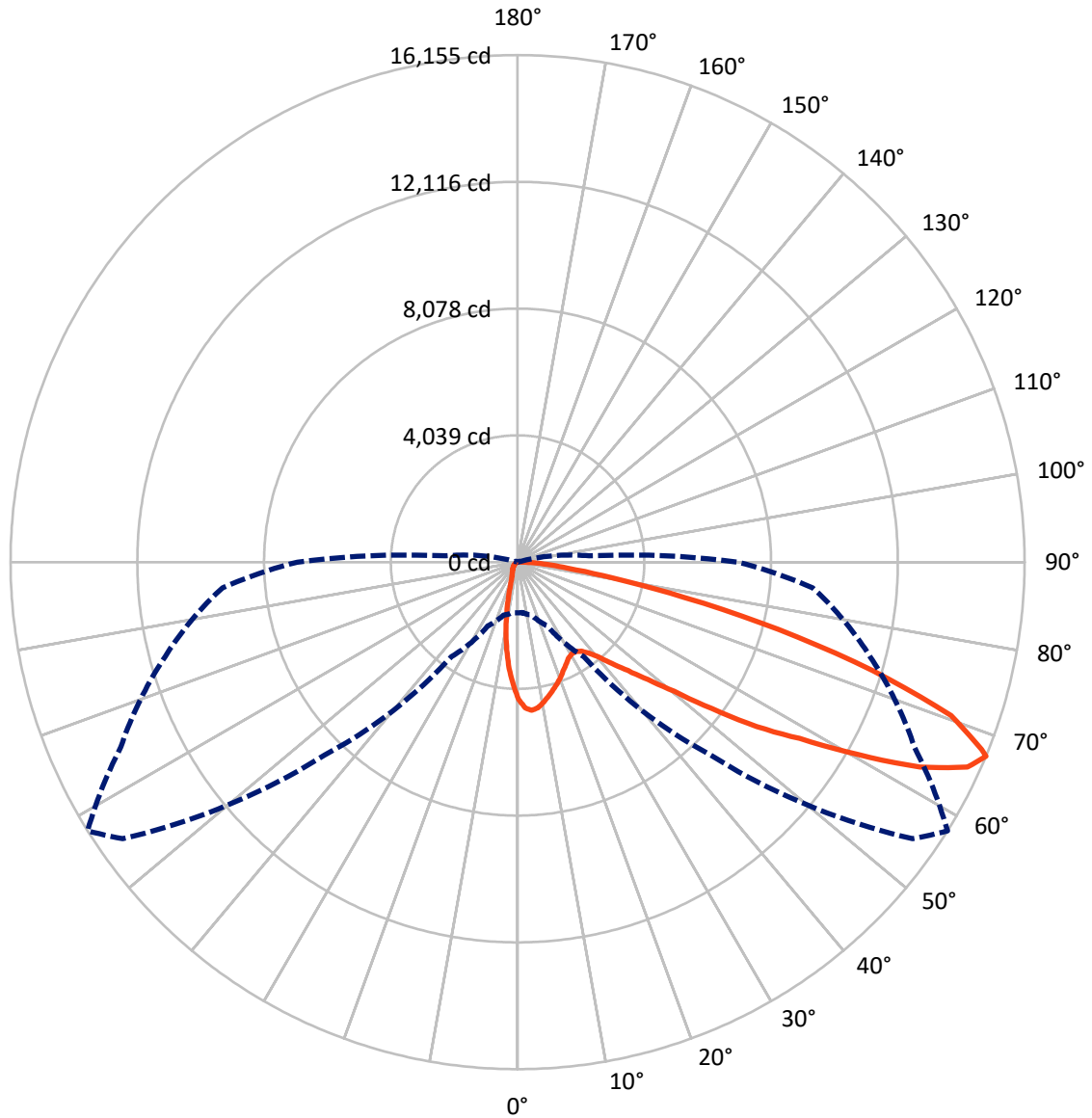
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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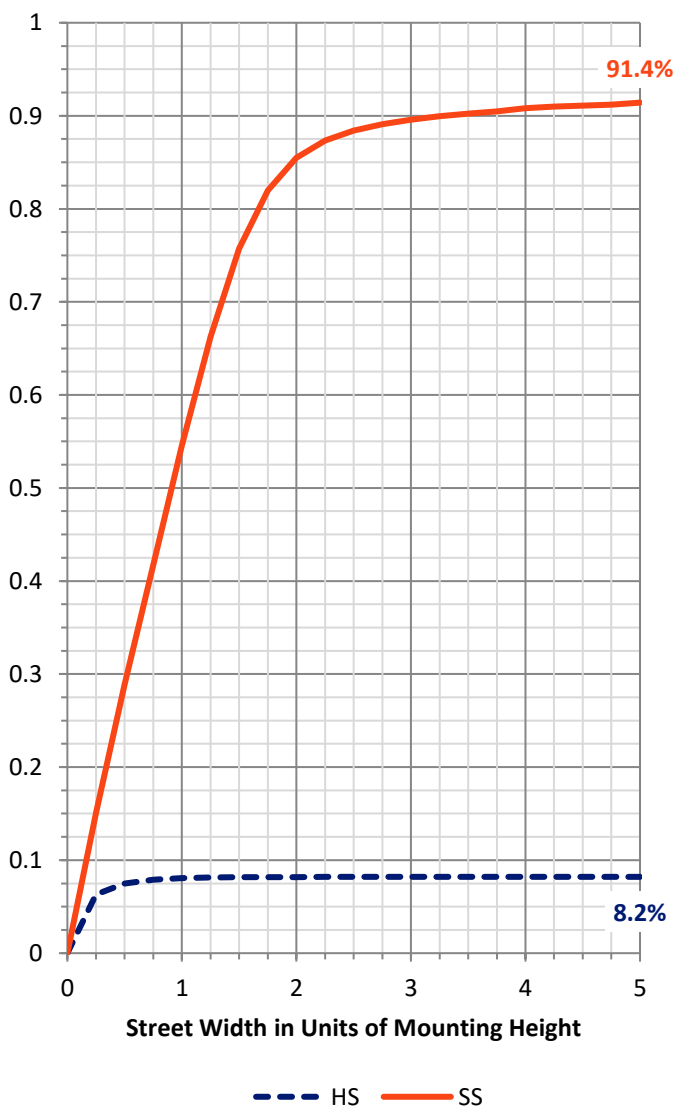
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1276.6 | 0.0 | 1276.6 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 14167.6 | 0.0 | 14167.6 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 15444.2 | 0.0 | 15444.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 347.2 | 2.2 |
| 10°-20° | 720.1 | 4.7 |
| 20°-30° | 955.4 | 6.2 |
| 30°-40° | 1323.9 | 8.6 |
| 40°-50° | 2160.3 | 14.0 |
| 50°-60° | 3797.1 | 24.6 |
| 60°-70° | 4205.6 | 27.2 |
| 70°-80° | 1742.8 | 11.3 |
| 80°-90° | 191.9 | 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° | 15444.2 | 100.0 |
| 0°-180° | 15444.2 | 100.0 |

Coefficient of Utilization



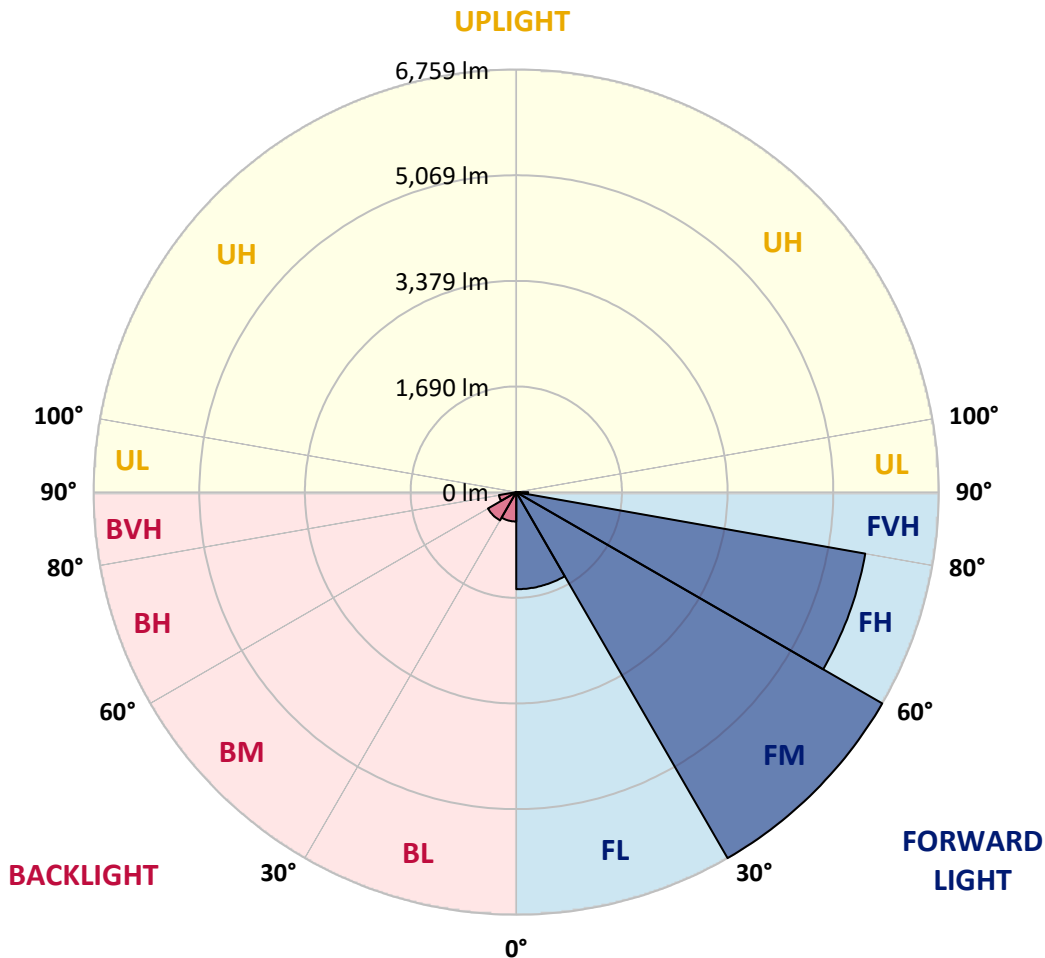
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1552.6 | 10.1 | | | |
| FM (30°-60°) | 6758.7 | 43.8 | | | |
| FH (60°-80°) | 5667.7 | 36.7 | | | G3/7500 |
| FVH (80°-90°) | 188.7 | 1.2 | | | G2/225 |
| BL (0°-30°) | 470.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 522.6 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 280.7 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 |
| 2.5° | 4761.0 | 4777.4 | 4791.8 | 4765.1 | 4787.7 | 4754.9 | 4670.8 | 4652.3 | 4638.0 | 4512.9 | 4441.2 |
| 5° | 4759.0 | 4740.5 | 4754.9 | 4767.2 | 4736.4 | 4761.0 | 4740.5 | 4742.6 | 4687.2 | 4574.4 | 4373.5 |
| 7.5° | 4441.2 | 4433.0 | 4441.2 | 4500.6 | 4568.3 | 4621.6 | 4652.3 | 4683.1 | 4646.2 | 4478.1 | 4283.3 |
| 10° | 4012.6 | 4053.6 | 4076.2 | 4182.8 | 4287.4 | 4385.8 | 4482.2 | 4539.6 | 4529.3 | 4461.7 | 4184.9 |
| 12.5° | 3713.3 | 3701.0 | 3783.0 | 3852.7 | 3957.3 | 4156.2 | 4324.3 | 4377.6 | 4439.1 | 4344.8 | 4055.7 |
| 15° | 3436.5 | 3403.7 | 3452.9 | 3573.8 | 3752.2 | 3910.1 | 4145.9 | 4225.9 | 4303.8 | 4328.4 | 3986.0 |
| 17.5° | 3172.0 | 3188.4 | 3239.6 | 3348.3 | 3516.4 | 3737.9 | 3959.3 | 4074.1 | 4260.7 | 4227.9 | 3881.4 |
| 20° | 3044.8 | 3079.7 | 3098.1 | 3153.5 | 3270.4 | 3491.8 | 3821.9 | 3914.2 | 4113.1 | 4225.9 | 3778.9 |
| 22.5° | 3051.0 | 3051.0 | 3007.9 | 3040.7 | 3147.4 | 3319.6 | 3635.4 | 3737.9 | 4053.6 | 4119.2 | 3686.6 |
| 25° | 3116.6 | 3075.6 | 3077.6 | 3038.7 | 3083.8 | 3178.1 | 3467.2 | 3592.3 | 3932.7 | 4129.5 | 3637.4 |
| 27.5° | 3165.8 | 3157.6 | 3145.3 | 3135.1 | 3077.6 | 3092.0 | 3356.5 | 3459.0 | 3885.5 | 4117.2 | 3561.5 |
| 30° | 3344.2 | 3307.3 | 3295.0 | 3272.4 | 3196.6 | 3126.9 | 3268.3 | 3397.5 | 3848.6 | 4145.9 | 3518.5 |
| 32.5° | 3493.9 | 3500.0 | 3510.3 | 3444.7 | 3379.1 | 3206.8 | 3292.9 | 3395.5 | 3821.9 | 4211.5 | 3561.5 |
| 35° | 3682.5 | 3709.2 | 3713.3 | 3692.8 | 3623.0 | 3452.9 | 3395.5 | 3483.6 | 3867.0 | 4328.4 | 3565.6 |
| 37.5° | 3969.6 | 3940.9 | 4018.8 | 4027.0 | 3977.8 | 3752.2 | 3633.3 | 3668.2 | 4000.3 | 4515.0 | 3721.5 |
| 40° | 4156.2 | 4191.0 | 4336.6 | 4426.8 | 4342.7 | 4137.7 | 3977.8 | 3971.6 | 4193.1 | 4808.2 | 3914.2 |
| 42.5° | 4363.2 | 4441.2 | 4601.1 | 4795.9 | 4785.6 | 4594.9 | 4433.0 | 4406.3 | 4535.5 | 5232.6 | 4219.7 |
| 45° | 4646.2 | 4715.9 | 4939.4 | 5232.6 | 5392.5 | 5230.6 | 4986.6 | 4933.3 | 4951.7 | 5810.8 | 4740.5 |
| 47.5° | 5115.7 | 5097.3 | 5419.2 | 5708.3 | 5970.8 | 5845.7 | 5741.1 | 5585.3 | 5570.9 | 6491.6 | 5460.2 |
| 50° | 5646.8 | 5642.7 | 5929.7 | 6257.8 | 6561.3 | 6805.3 | 6631.0 | 6460.8 | 6464.9 | 7416.3 | 6307.0 |
| 52.5° | 6151.2 | 6231.2 | 6540.8 | 6866.8 | 7387.6 | 7650.0 | 7818.2 | 7750.5 | 7424.5 | 8242.6 | 7213.3 |
| 55° | 6417.7 | 6487.5 | 6795.0 | 7356.8 | 8179.0 | 8853.6 | 9308.8 | 9251.4 | 8621.9 | 9173.5 | 8107.3 |
| 57.5° | 6165.5 | 6212.7 | 6628.9 | 7365.0 | 8732.6 | 10237.6 | 10674.4 | 10602.6 | 9860.4 | 9885.0 | 9187.8 |
| 60° | 5109.6 | 5183.4 | 5802.6 | 6665.8 | 8517.3 | 11303.8 | 12554.6 | 12445.9 | 10988.1 | 10785.1 | 9882.9 |
| 62.5° | 3539.0 | 3588.2 | 4096.7 | 5171.1 | 7496.2 | 11675.0 | 14330.2 | 14389.7 | 12177.3 | 11486.3 | 10090.0 |
| 65° | 2292.3 | 2288.2 | 2579.4 | 3307.3 | 5312.6 | 10551.3 | 15380.0 | 15749.1 | 13325.5 | 11592.9 | 10026.4 |
| 67° | 1619.8 | 1613.7 | 1751.0 | 2243.1 | 3678.4 | 8693.7 | 15361.6 | 16155.1 | 13948.8 | 11623.7 | 9438.0 |
| 67.5° | 1494.7 | 1488.6 | 1619.8 | 2062.7 | 3319.6 | 8084.7 | 15131.9 | 15945.9 | 14168.2 | 11580.6 | 9179.6 |
| 70° | 1160.5 | 1144.1 | 1193.3 | 1420.9 | 1933.5 | 5228.5 | 12950.3 | 14648.0 | 13713.0 | 10506.2 | 7330.2 |
| 72.5° | 838.6 | 857.1 | 935.0 | 1166.7 | 1517.3 | 2813.1 | 9870.6 | 11845.1 | 11453.5 | 7918.6 | 4658.5 |
| 75° | 584.4 | 600.8 | 725.8 | 951.4 | 1392.2 | 1705.9 | 6674.0 | 8591.2 | 7978.1 | 4371.4 | 1984.8 |
| 77.5° | 305.5 | 326.0 | 463.4 | 760.7 | 1265.1 | 1320.5 | 3988.0 | 5447.9 | 4227.9 | 1556.3 | 547.5 |
| 80° | 141.5 | 151.7 | 231.7 | 539.3 | 1058.0 | 1160.5 | 2325.1 | 3030.5 | 1691.6 | 348.6 | 188.6 |
| 82.5° | 61.5 | 67.7 | 106.6 | 309.6 | 750.4 | 1014.9 | 1439.4 | 1589.1 | 613.1 | 112.8 | 116.9 |
| 85° | 12.3 | 14.4 | 41.0 | 164.0 | 362.9 | 615.1 | 1010.8 | 943.2 | 307.6 | 55.4 | 92.3 |
| 87.5° | 0.0 | 0.0 | 10.3 | 47.2 | 98.4 | 182.5 | 428.5 | 428.5 | 94.3 | 28.7 | 34.9 |
| 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-SA4A-740-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 | 4375.5 |
| 2.5° | 4377.6 | 4303.8 | 4141.8 | 3992.1 | 3885.5 | 3764.5 | 3604.6 | 3532.8 | 3506.2 | 3469.3 | 3413.9 |
| 5° | 4262.8 | 4172.6 | 3895.8 | 3616.9 | 3311.4 | 3079.7 | 2833.6 | 2690.1 | 2581.4 | 2513.8 | 2491.2 |
| 7.5° | 4100.8 | 3916.3 | 3543.1 | 3096.1 | 2700.4 | 2355.9 | 1982.7 | 1730.5 | 1568.6 | 1502.9 | 1441.4 |
| 10° | 3971.6 | 3731.7 | 3163.8 | 2608.1 | 2081.2 | 1576.8 | 1156.4 | 935.0 | 766.8 | 703.3 | 695.1 |
| 12.5° | 3803.5 | 3516.4 | 2809.0 | 2109.9 | 1447.6 | 939.1 | 639.7 | 555.7 | 508.5 | 500.3 | 494.1 |
| 15° | 3664.1 | 3321.6 | 2472.8 | 1634.2 | 937.0 | 586.4 | 498.2 | 477.7 | 465.4 | 461.3 | 463.4 |
| 17.5° | 3569.7 | 3112.5 | 2128.3 | 1189.2 | 617.2 | 479.8 | 459.3 | 447.0 | 440.8 | 438.8 | 432.6 |
| 20° | 3383.2 | 2936.2 | 1787.9 | 832.5 | 481.8 | 442.9 | 426.5 | 416.2 | 410.1 | 408.0 | 406.0 |
| 22.5° | 3276.5 | 2712.7 | 1447.6 | 580.3 | 428.5 | 401.9 | 389.6 | 381.4 | 371.1 | 365.0 | 362.9 |
| 25° | 3169.9 | 2548.6 | 1144.1 | 451.1 | 389.6 | 371.1 | 352.7 | 342.4 | 326.0 | 317.8 | 315.8 |
| 27.5° | 3044.8 | 2386.7 | 881.7 | 391.6 | 350.6 | 332.2 | 313.7 | 297.3 | 276.8 | 268.6 | 264.5 |
| 30° | 2973.1 | 2228.8 | 664.3 | 350.6 | 321.9 | 297.3 | 274.8 | 254.2 | 231.7 | 217.3 | 213.2 |
| 32.5° | 2936.2 | 2085.3 | 498.2 | 319.9 | 291.2 | 264.5 | 235.8 | 211.2 | 190.7 | 178.4 | 176.3 |
| 35° | 2891.1 | 1945.8 | 391.6 | 291.2 | 262.5 | 233.7 | 205.0 | 180.4 | 159.9 | 149.7 | 145.6 |
| 37.5° | 2938.2 | 1863.8 | 326.0 | 268.6 | 239.9 | 207.1 | 176.3 | 151.7 | 135.3 | 125.1 | 123.0 |
| 40° | 3067.4 | 1796.1 | 283.0 | 248.1 | 217.3 | 182.5 | 153.8 | 129.2 | 114.8 | 106.6 | 102.5 |
| 42.5° | 3266.3 | 1796.1 | 256.3 | 227.6 | 196.8 | 159.9 | 131.2 | 112.8 | 98.4 | 90.2 | 88.2 |
| 45° | 3627.1 | 1851.5 | 233.7 | 207.1 | 172.2 | 137.4 | 112.8 | 94.3 | 80.0 | 71.8 | 69.7 |
| 47.5° | 4133.6 | 1978.6 | 215.3 | 188.6 | 153.8 | 121.0 | 98.4 | 80.0 | 65.6 | 57.4 | 55.4 |
| 50° | 4814.3 | 2267.7 | 196.8 | 166.1 | 137.4 | 104.6 | 82.0 | 63.6 | 51.3 | 43.1 | 41.0 |
| 52.5° | 5663.2 | 2677.8 | 178.4 | 153.8 | 116.9 | 88.2 | 65.6 | 51.3 | 39.0 | 32.8 | 30.8 |
| 55° | 6561.3 | 3180.2 | 155.8 | 137.4 | 100.5 | 73.8 | 53.3 | 39.0 | 28.7 | 24.6 | 22.6 |
| 57.5° | 7465.5 | 3567.7 | 137.4 | 118.9 | 82.0 | 59.5 | 43.1 | 30.8 | 20.5 | 16.4 | 14.4 |
| 60° | 7945.3 | 3604.6 | 118.9 | 98.4 | 65.6 | 47.2 | 32.8 | 22.6 | 14.4 | 10.3 | 8.2 |
| 62.5° | 8019.1 | 3276.5 | 102.5 | 80.0 | 53.3 | 36.9 | 22.6 | 16.4 | 8.2 | 4.1 | 4.1 |
| 65° | 7639.8 | 2731.1 | 88.2 | 63.6 | 41.0 | 26.7 | 16.4 | 10.3 | 4.1 | 2.1 | 0.0 |
| 67° | 7024.7 | 2288.2 | 75.9 | 53.3 | 32.8 | 20.5 | 12.3 | 6.2 | 2.1 | 0.0 | 0.0 |
| 67.5° | 6786.8 | 2165.2 | 71.8 | 49.2 | 30.8 | 18.5 | 10.3 | 6.2 | 2.1 | 0.0 | 0.0 |
| 70° | 5267.5 | 1546.0 | 53.3 | 34.9 | 22.6 | 14.4 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 3227.3 | 904.2 | 41.0 | 24.6 | 16.4 | 10.3 | 6.2 | 2.1 | 0.0 | 0.0 | 0.0 |
| 75° | 1353.3 | 311.7 | 34.9 | 18.5 | 12.3 | 6.2 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 77.5° | 352.7 | 116.9 | 24.6 | 12.3 | 8.2 | 6.2 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 80° | 143.5 | 53.3 | 16.4 | 8.2 | 8.2 | 6.2 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 94.3 | 24.6 | 10.3 | 8.2 | 6.2 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 71.8 | 14.4 | 6.2 | 6.2 | 4.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 30.8 | 8.2 | 6.2 | 4.1 | 4.1 | 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)