

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: P481220

Luminaire Tested: **IFLD-M-SA4C-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481220
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

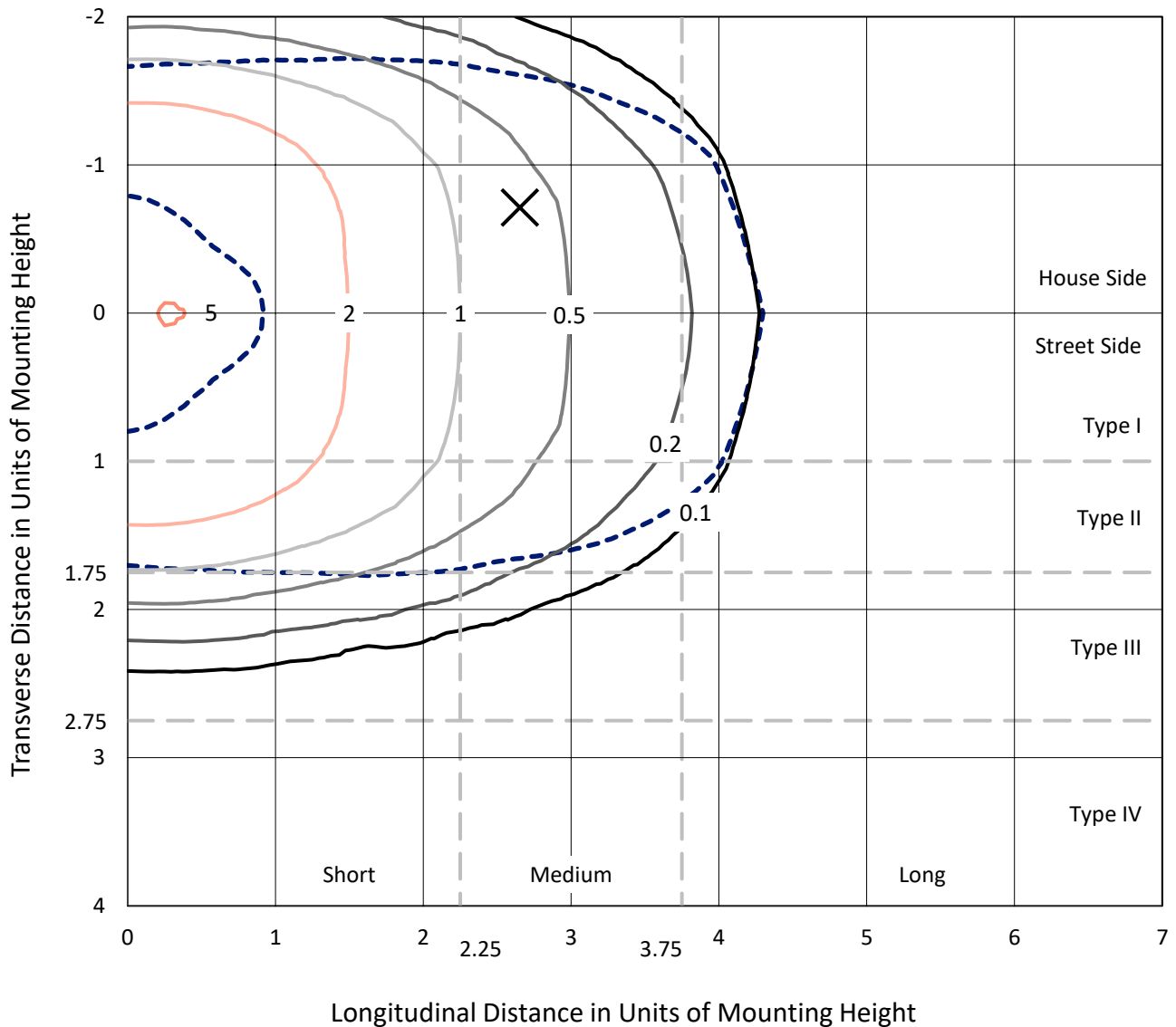
Lumens per Lamp: N/A
Luminaire Lumens: 26667.3 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

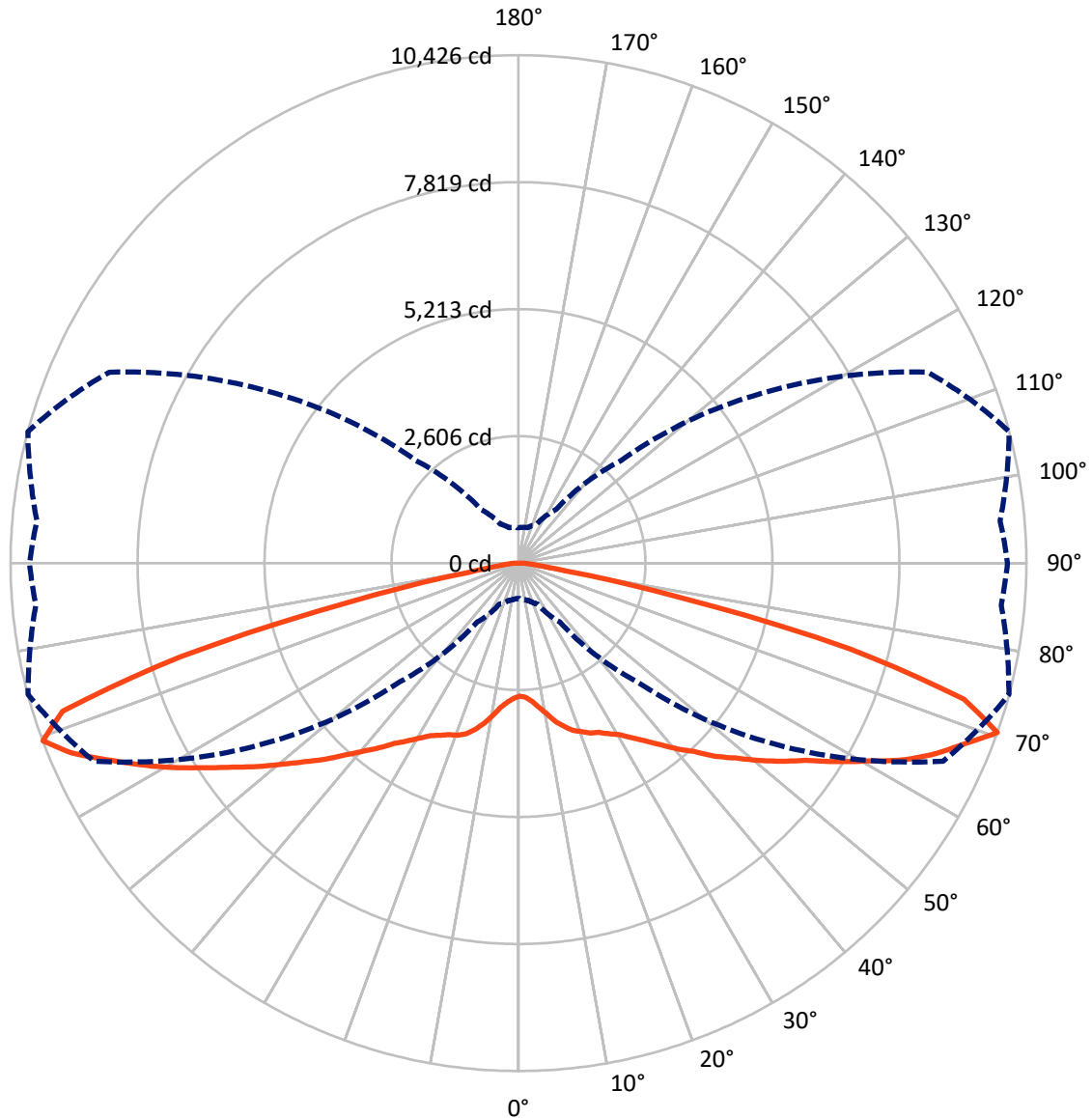
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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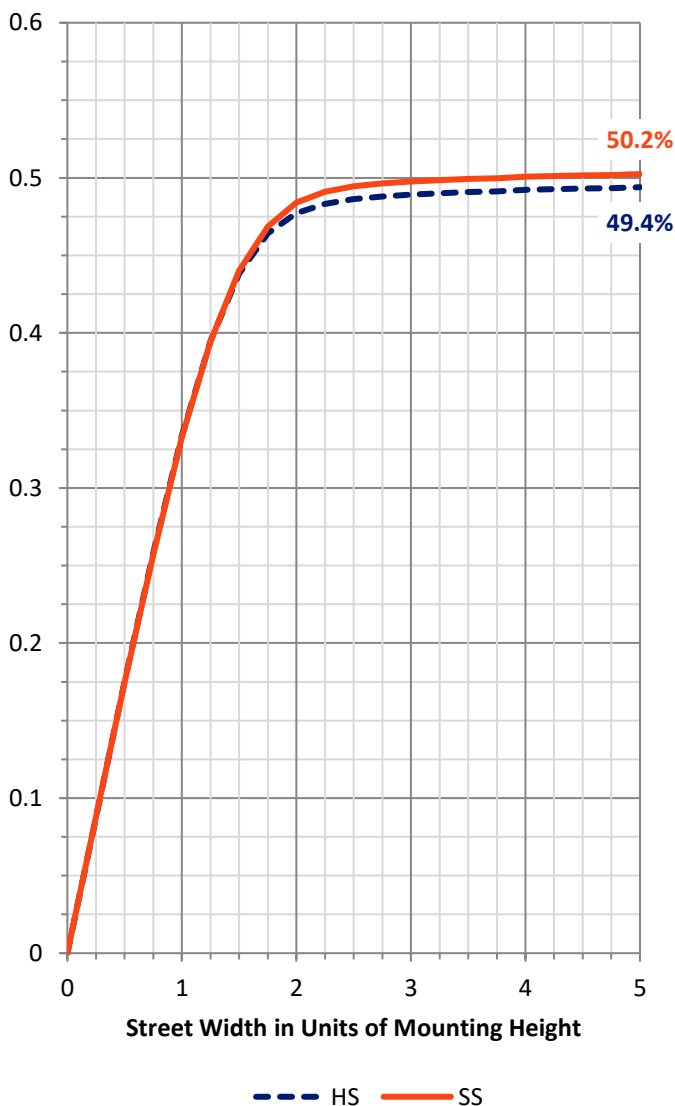
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13238.8 | 0.0 | 13238.8 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 13428.5 | 0.0 | 13428.5 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 26667.3 | 0.0 | 26667.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 271.8 | 1.0 |
| 10°-20° | 925.4 | 3.5 |
| 20°-30° | 1792.0 | 6.7 |
| 30°-40° | 3031.0 | 11.4 |
| 40°-50° | 4835.3 | 18.1 |
| 50°-60° | 6618.5 | 24.8 |
| 60°-70° | 6238.4 | 23.4 |
| 70°-80° | 2748.2 | 10.3 |
| 80°-90° | 206.8 | 0.8 |
| 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°-90° | 26667.3 | 100.0 |
| 0°-180° | 26667.3 | 100.0 |

Coefficient of Utilization



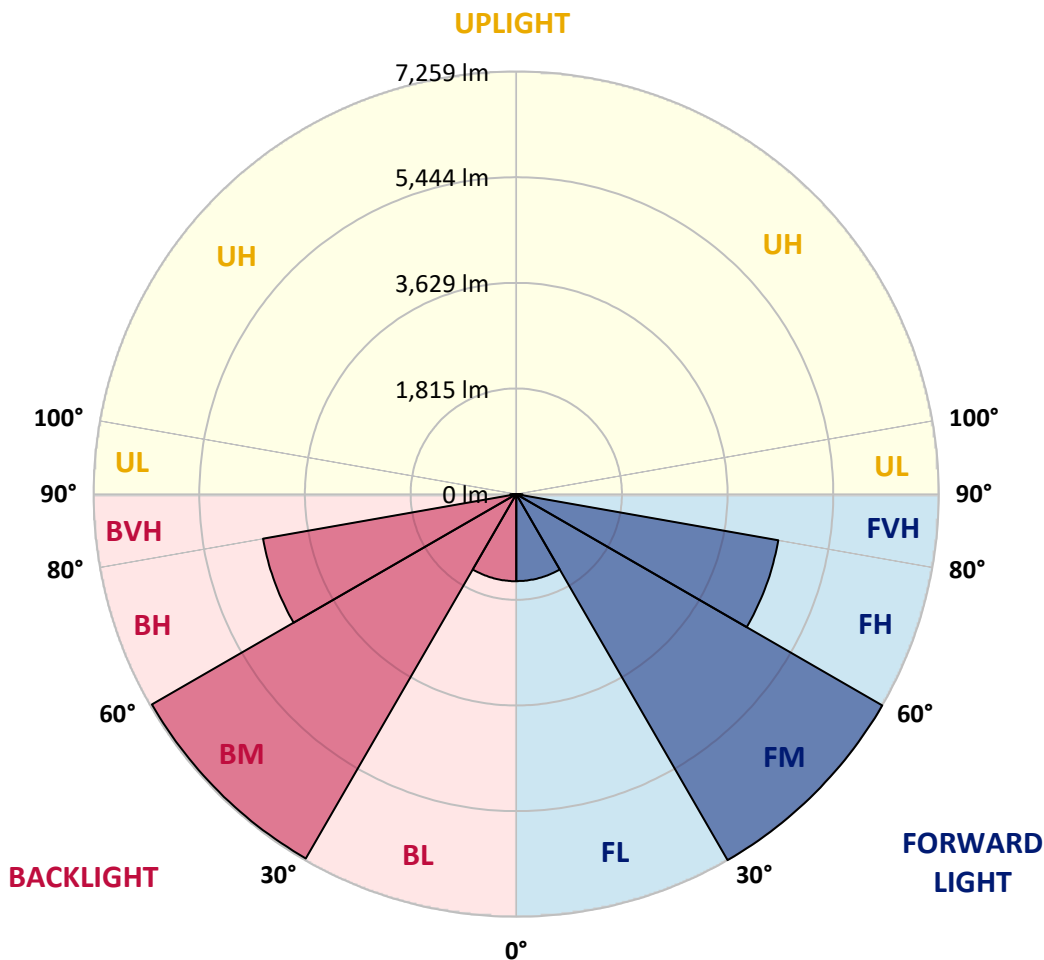
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1493.8 | 5.6 | | | |
| FM (30°-60°) | 7258.6 | 27.2 | | | |
| FH (60°-80°) | 4570.5 | 17.1 | | | G2/5000 |
| FVH (80°-90°) | 105.6 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1495.4 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 7226.2 | 27.1 | B4/8500 | | |
| BH (60°-80°) | 4416.1 | 16.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 101.2 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|---------|
| 0° | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 |
| 2.5° | 2713.5 | 2713.5 | 2710.6 | 2725.0 | 2739.3 | 2745.1 | 2756.6 | 2759.4 | 2776.7 | 2762.3 | 2791.1 |
| 5° | 2704.8 | 2702.0 | 2725.0 | 2759.4 | 2759.4 | 2796.8 | 2819.8 | 2851.4 | 2860.1 | 2877.3 | 2883.0 |
| 7.5° | 2765.2 | 2759.4 | 2748.0 | 2785.3 | 2816.9 | 2874.4 | 2906.0 | 2960.7 | 2980.8 | 3003.8 | 3029.6 |
| 10° | 2802.6 | 2802.6 | 2791.1 | 2857.2 | 2885.9 | 2963.5 | 3032.5 | 3087.1 | 3164.7 | 3190.6 | 3193.5 |
| 12.5° | 2808.3 | 2816.9 | 2851.4 | 2937.7 | 3018.1 | 3118.8 | 3170.5 | 3274.0 | 3351.6 | 3400.4 | 3417.7 |
| 15° | 2894.5 | 2877.3 | 2914.7 | 3032.5 | 3150.4 | 3239.5 | 3331.5 | 3406.2 | 3518.3 | 3581.5 | 3621.8 |
| 17.5° | 2972.2 | 2954.9 | 3023.9 | 3164.7 | 3285.5 | 3423.4 | 3503.9 | 3584.4 | 3664.9 | 3722.4 | 3725.3 |
| 20° | 3095.8 | 3110.1 | 3170.5 | 3322.8 | 3480.9 | 3601.7 | 3693.6 | 3708.0 | 3748.3 | 3831.6 | 3817.2 |
| 22.5° | 3248.1 | 3236.6 | 3363.1 | 3529.8 | 3702.3 | 3802.9 | 3854.6 | 3817.2 | 3797.1 | 3886.2 | 3906.3 |
| 25° | 3400.4 | 3434.9 | 3549.9 | 3705.1 | 3912.1 | 4047.2 | 4061.6 | 3958.1 | 3883.3 | 3915.0 | 3906.3 |
| 27.5° | 3633.3 | 3639.0 | 3759.7 | 3943.7 | 4153.5 | 4271.4 | 4262.8 | 4116.2 | 3972.5 | 3975.3 | 3981.1 |
| 30° | 3932.2 | 3903.5 | 4035.7 | 4202.4 | 4409.4 | 4515.7 | 4530.1 | 4320.3 | 4127.7 | 4070.2 | 4084.6 |
| 32.5° | 4219.7 | 4254.2 | 4369.1 | 4558.8 | 4711.2 | 4771.5 | 4739.9 | 4553.1 | 4303.0 | 4225.4 | 4234.0 |
| 35° | 4587.6 | 4581.8 | 4739.9 | 4900.9 | 5015.9 | 5027.4 | 5001.5 | 4728.4 | 4492.7 | 4392.1 | 4351.9 |
| 37.5° | 4981.4 | 5033.1 | 5136.6 | 5268.8 | 5389.5 | 5395.3 | 5254.5 | 5036.0 | 4745.7 | 4579.0 | 4627.8 |
| 40° | 5421.2 | 5478.7 | 5553.4 | 5746.0 | 5835.1 | 5743.1 | 5599.4 | 5303.3 | 5001.5 | 4854.9 | 4877.9 |
| 42.5° | 5809.2 | 5835.1 | 5987.4 | 6214.5 | 6257.6 | 6217.4 | 6004.7 | 5645.4 | 5294.7 | 5133.7 | 5145.2 |
| 45° | 6165.6 | 6200.1 | 6398.5 | 6602.6 | 6703.2 | 6634.2 | 6387.0 | 6044.9 | 5636.7 | 5498.8 | 5444.2 |
| 47.5° | 6493.3 | 6562.3 | 6754.9 | 6964.7 | 7120.0 | 7125.7 | 6821.0 | 6407.1 | 5975.9 | 5794.8 | 5792.0 |
| 50° | 6714.7 | 6815.3 | 7005.0 | 7243.6 | 7470.6 | 7559.7 | 7255.1 | 6809.5 | 6346.7 | 6154.1 | 6134.0 |
| 52.5° | 6835.4 | 6938.9 | 7128.6 | 7499.4 | 7752.3 | 7890.3 | 7746.6 | 7186.1 | 6780.8 | 6579.6 | 6547.9 |
| 55° | 6688.8 | 6757.8 | 7068.2 | 7588.5 | 7979.4 | 8206.5 | 8111.6 | 7706.3 | 7211.9 | 7048.1 | 7076.8 |
| 57.5° | 6065.0 | 6208.8 | 6591.1 | 7240.7 | 7973.7 | 8531.3 | 8522.7 | 8197.9 | 7709.2 | 7554.0 | 7559.7 |
| 60° | 4992.9 | 5113.6 | 5585.0 | 6493.3 | 7651.7 | 8663.5 | 8968.2 | 8675.0 | 8266.8 | 8085.8 | 8080.0 |
| 62.5° | 3524.0 | 3676.4 | 4222.5 | 5214.2 | 6703.2 | 8479.6 | 9479.9 | 9275.8 | 8813.0 | 8680.8 | 8729.6 |
| 65° | 1971.9 | 2063.8 | 2569.7 | 3466.6 | 5107.9 | 7467.8 | 9571.8 | 9899.5 | 9367.8 | 9166.5 | 9175.2 |
| 67.5° | 1054.9 | 1089.4 | 1325.1 | 1819.5 | 3124.5 | 5757.5 | 8643.4 | 10258.8 | 9968.5 | 9620.7 | 9566.1 |
| 70° | 724.4 | 735.9 | 796.2 | 931.3 | 1477.5 | 3443.6 | 6519.2 | 9617.8 | 10419.8 | 9945.5 | 10037.5 |
| 72.5° | 612.3 | 606.5 | 620.9 | 635.2 | 773.2 | 1540.7 | 3825.9 | 7401.6 | 9836.3 | 9658.1 | 9623.6 |
| 75° | 531.8 | 528.9 | 534.6 | 520.3 | 537.5 | 678.4 | 1693.0 | 4613.5 | 7200.4 | 8036.9 | 8166.2 |
| 77.5° | 439.8 | 442.7 | 445.5 | 431.2 | 425.4 | 448.4 | 681.2 | 2026.5 | 3544.2 | 3912.1 | 4219.7 |
| 80° | 333.4 | 339.2 | 362.2 | 347.8 | 324.8 | 327.7 | 402.4 | 678.4 | 1017.5 | 922.7 | 951.4 |
| 82.5° | 227.1 | 230.0 | 278.8 | 261.6 | 244.3 | 221.3 | 258.7 | 350.7 | 396.7 | 301.8 | 264.4 |
| 85° | 161.0 | 158.1 | 181.1 | 166.7 | 155.2 | 112.1 | 155.2 | 198.3 | 238.6 | 149.5 | 135.1 |
| 87.5° | 37.4 | 37.4 | 74.7 | 60.4 | 57.5 | 46.0 | 60.4 | 77.6 | 103.5 | 66.1 | 60.4 |
| 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-730-U-RW

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 | 2730.7 |
| 2.5° | 2782.4 | 2756.6 | 2756.6 | 2750.8 | 2727.8 | 2722.1 | 2702.0 | 2707.7 | 2693.3 | 2679.0 |
| 5° | 2880.2 | 2845.7 | 2845.7 | 2796.8 | 2750.8 | 2745.1 | 2722.1 | 2722.1 | 2699.1 | 2704.8 |
| 7.5° | 3015.3 | 2983.7 | 2931.9 | 2888.8 | 2825.6 | 2799.7 | 2756.6 | 2750.8 | 2745.1 | 2733.6 |
| 10° | 3176.2 | 3136.0 | 3084.3 | 2995.2 | 2943.4 | 2894.5 | 2851.4 | 2791.1 | 2776.7 | 2779.6 |
| 12.5° | 3394.7 | 3331.5 | 3219.4 | 3141.7 | 3075.6 | 3012.4 | 2949.2 | 2860.1 | 2839.9 | 2848.6 |
| 15° | 3549.9 | 3469.4 | 3357.3 | 3328.6 | 3239.5 | 3161.9 | 3058.4 | 2957.8 | 2923.3 | 2914.7 |
| 17.5° | 3676.4 | 3610.3 | 3544.2 | 3501.1 | 3429.2 | 3334.3 | 3190.6 | 3075.6 | 2998.0 | 2989.4 |
| 20° | 3779.9 | 3693.6 | 3679.3 | 3705.1 | 3616.0 | 3552.8 | 3377.5 | 3236.6 | 3133.1 | 3090.0 |
| 22.5° | 3843.1 | 3788.5 | 3828.7 | 3851.7 | 3846.0 | 3739.6 | 3558.5 | 3394.7 | 3265.3 | 3225.1 |
| 25° | 3912.1 | 3848.9 | 3992.6 | 4070.2 | 4090.3 | 3915.0 | 3774.1 | 3558.5 | 3432.1 | 3406.2 |
| 27.5° | 3946.6 | 3969.6 | 4136.3 | 4300.1 | 4285.8 | 4150.7 | 3961.0 | 3768.4 | 3667.8 | 3621.8 |
| 30° | 4047.2 | 4084.6 | 4337.5 | 4521.5 | 4524.3 | 4392.1 | 4248.4 | 4029.9 | 3917.8 | 3897.7 |
| 32.5° | 4228.3 | 4274.3 | 4544.5 | 4739.9 | 4774.4 | 4673.8 | 4530.1 | 4395.0 | 4280.0 | 4234.0 |
| 35° | 4366.3 | 4484.1 | 4788.8 | 4967.0 | 5059.0 | 4998.6 | 4918.1 | 4777.3 | 4656.6 | 4616.3 |
| 37.5° | 4564.6 | 4728.4 | 5021.6 | 5263.1 | 5366.6 | 5360.8 | 5300.4 | 5148.1 | 5047.5 | 5013.0 |
| 40° | 4849.2 | 5013.0 | 5280.3 | 5599.4 | 5792.0 | 5783.3 | 5748.9 | 5631.0 | 5481.5 | 5464.3 |
| 42.5° | 5151.0 | 5286.1 | 5633.9 | 5998.9 | 6274.9 | 6246.1 | 6154.1 | 6016.2 | 5912.7 | 5889.7 |
| 45° | 5444.2 | 5654.0 | 5975.9 | 6444.5 | 6651.4 | 6723.3 | 6614.1 | 6378.4 | 6260.5 | 6246.1 |
| 47.5° | 5812.1 | 5978.8 | 6381.2 | 6800.9 | 7108.5 | 7120.0 | 6933.1 | 6714.7 | 6499.1 | 6545.1 |
| 50° | 6139.8 | 6361.1 | 6769.3 | 7229.2 | 7597.1 | 7464.9 | 7226.3 | 6953.2 | 6798.0 | 6737.7 |
| 52.5° | 6490.5 | 6760.6 | 7234.9 | 7703.5 | 7907.5 | 7775.3 | 7387.3 | 7082.6 | 6846.9 | 6821.0 |
| 55° | 7002.1 | 7142.9 | 7763.8 | 8123.1 | 8189.2 | 7910.4 | 7338.4 | 6907.2 | 6602.6 | 6527.8 |
| 57.5° | 7522.4 | 7686.2 | 8229.5 | 8539.9 | 8470.9 | 7835.7 | 7022.2 | 6355.4 | 5955.8 | 5849.5 |
| 60° | 8048.4 | 8249.6 | 8706.6 | 8991.2 | 8634.8 | 7321.2 | 6128.3 | 5268.8 | 4803.2 | 4708.3 |
| 62.5° | 8634.8 | 8896.3 | 9304.5 | 9405.1 | 8149.0 | 6303.6 | 4863.5 | 3802.9 | 3331.5 | 3173.4 |
| 65° | 9155.0 | 9422.4 | 9925.4 | 9318.9 | 7117.1 | 4702.6 | 3144.6 | 2173.1 | 1825.3 | 1698.8 |
| 67.5° | 9583.3 | 9885.2 | 10132.4 | 8246.7 | 5211.3 | 2753.7 | 1638.4 | 1144.0 | 1014.7 | 968.7 |
| 70° | 9922.5 | 10425.5 | 9270.0 | 6062.2 | 2977.9 | 1342.4 | 885.3 | 753.1 | 735.9 | 724.4 |
| 72.5° | 9626.5 | 9560.3 | 6921.6 | 3498.2 | 1305.0 | 738.7 | 641.0 | 620.9 | 618.0 | 620.9 |
| 75° | 7873.1 | 7022.2 | 4139.2 | 1520.6 | 655.4 | 534.6 | 531.8 | 523.1 | 537.5 | 537.5 |
| 77.5° | 3820.1 | 3340.1 | 1730.4 | 652.5 | 431.2 | 419.7 | 434.0 | 434.0 | 434.0 | 434.0 |
| 80° | 885.3 | 980.2 | 618.0 | 396.7 | 313.3 | 313.3 | 344.9 | 347.8 | 333.4 | 327.7 |
| 82.5° | 301.8 | 402.4 | 339.2 | 250.1 | 207.0 | 232.8 | 261.6 | 267.3 | 221.3 | 224.2 |
| 85° | 149.5 | 235.7 | 184.0 | 143.7 | 106.4 | 143.7 | 169.6 | 178.2 | 152.3 | 146.6 |
| 87.5° | 69.0 | 103.5 | 69.0 | 48.9 | 37.4 | 51.7 | 48.9 | 40.2 | 23.0 | 23.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)