

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: P484495

Luminaire Tested: **IFLD-M-SA4B-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

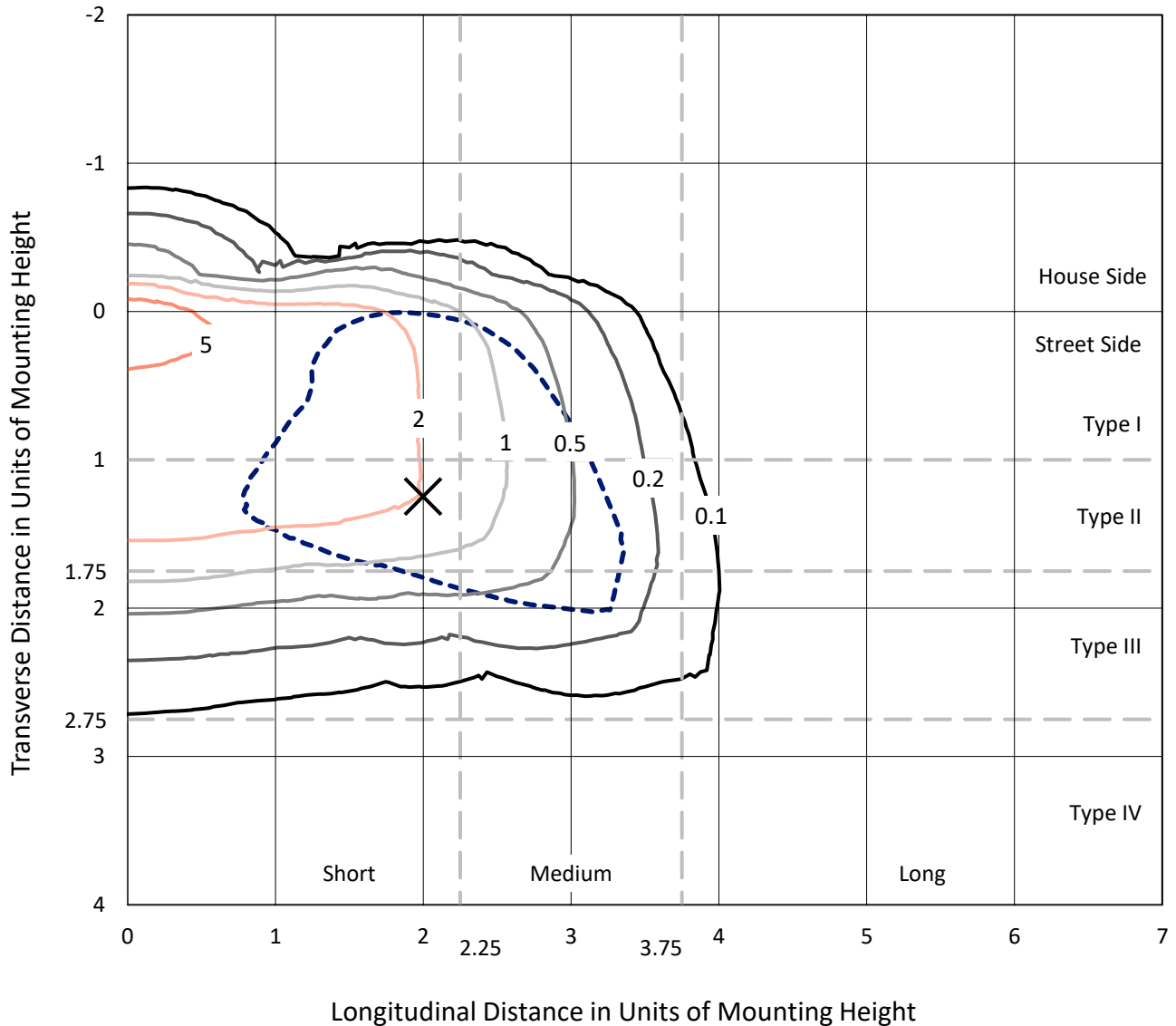
Lumens per Lamp: N/A
Luminaire Lumens: 19537.9 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

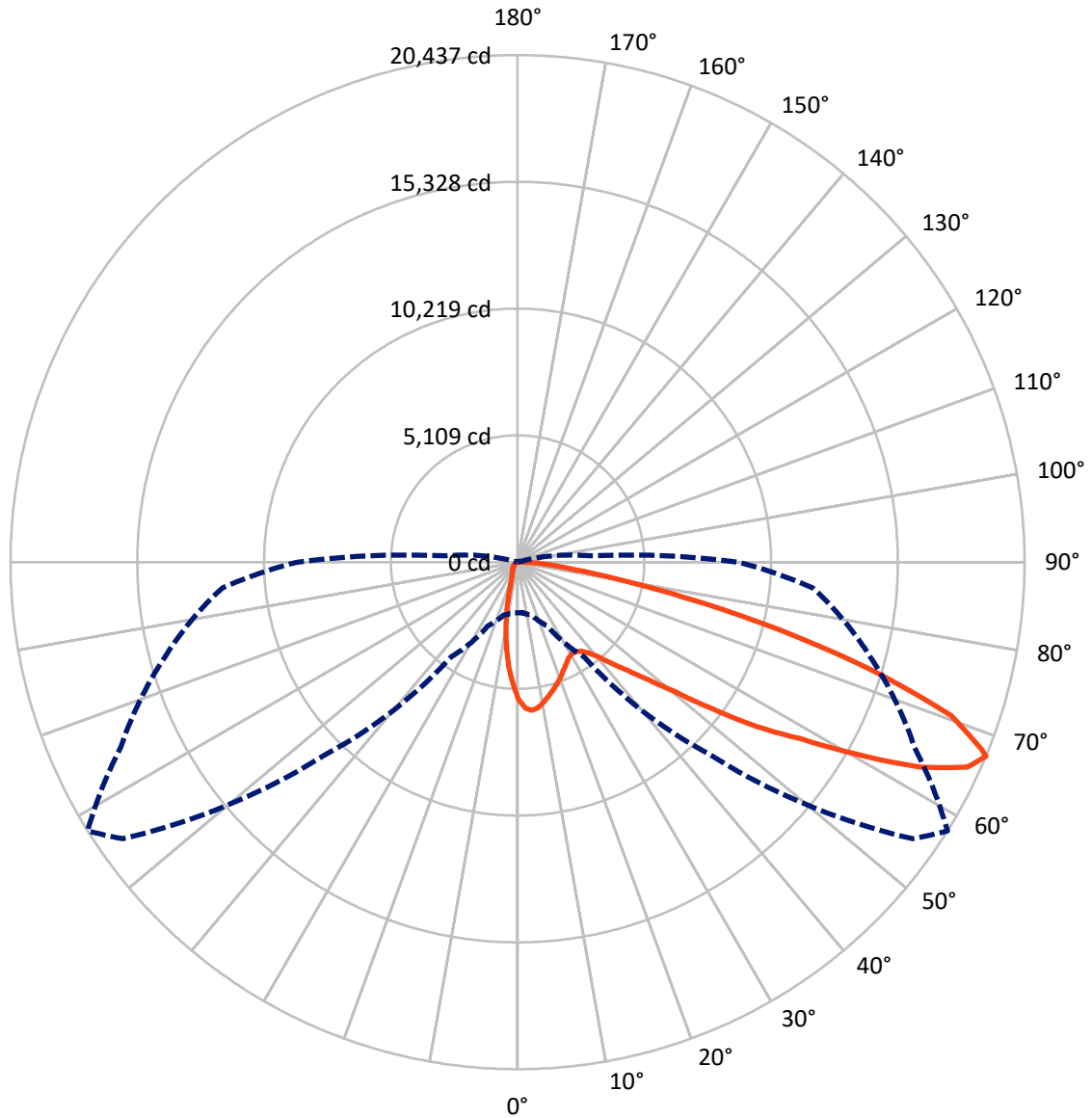
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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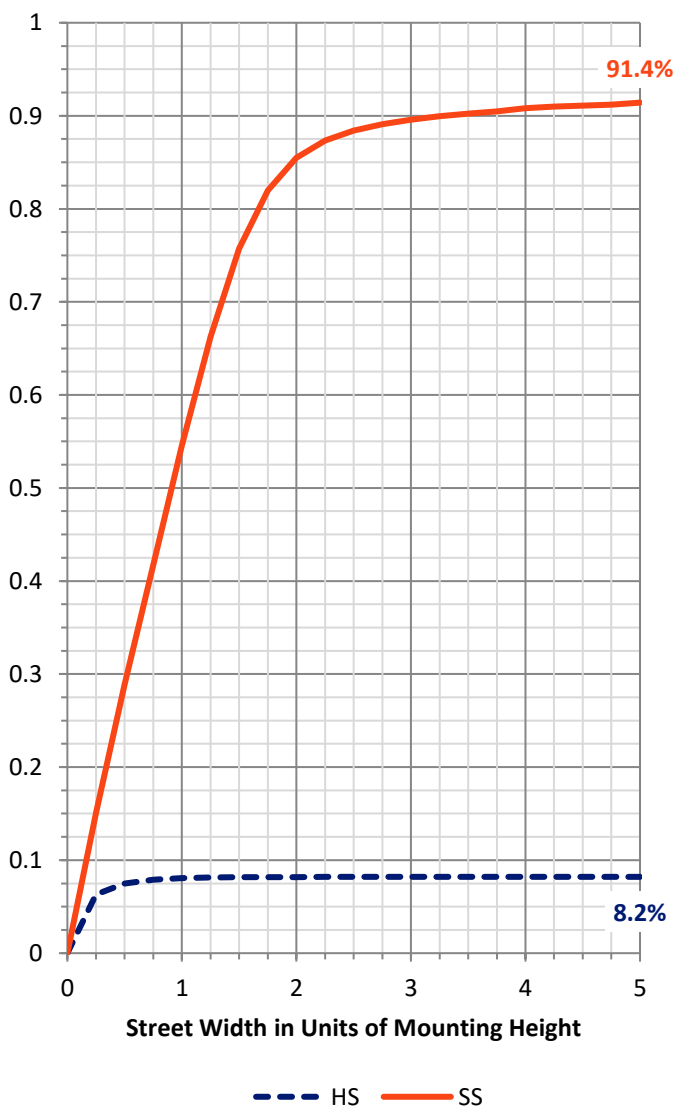
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1614.9 | 0.0 | 1614.9 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 17923.0 | 0.0 | 17923.0 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 19537.9 | 0.0 | 19537.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.2 | 2.2 |
| 10°-20° | 911.0 | 4.7 |
| 20°-30° | 1208.7 | 6.2 |
| 30°-40° | 1674.9 | 8.6 |
| 40°-50° | 2732.9 | 14.0 |
| 50°-60° | 4803.5 | 24.6 |
| 60°-70° | 5320.3 | 27.2 |
| 70°-80° | 2204.7 | 11.3 |
| 80°-90° | 242.7 | 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° | 19537.9 | 100.0 |
| 0°-180° | 19537.9 | 100.0 |

Coefficient of Utilization



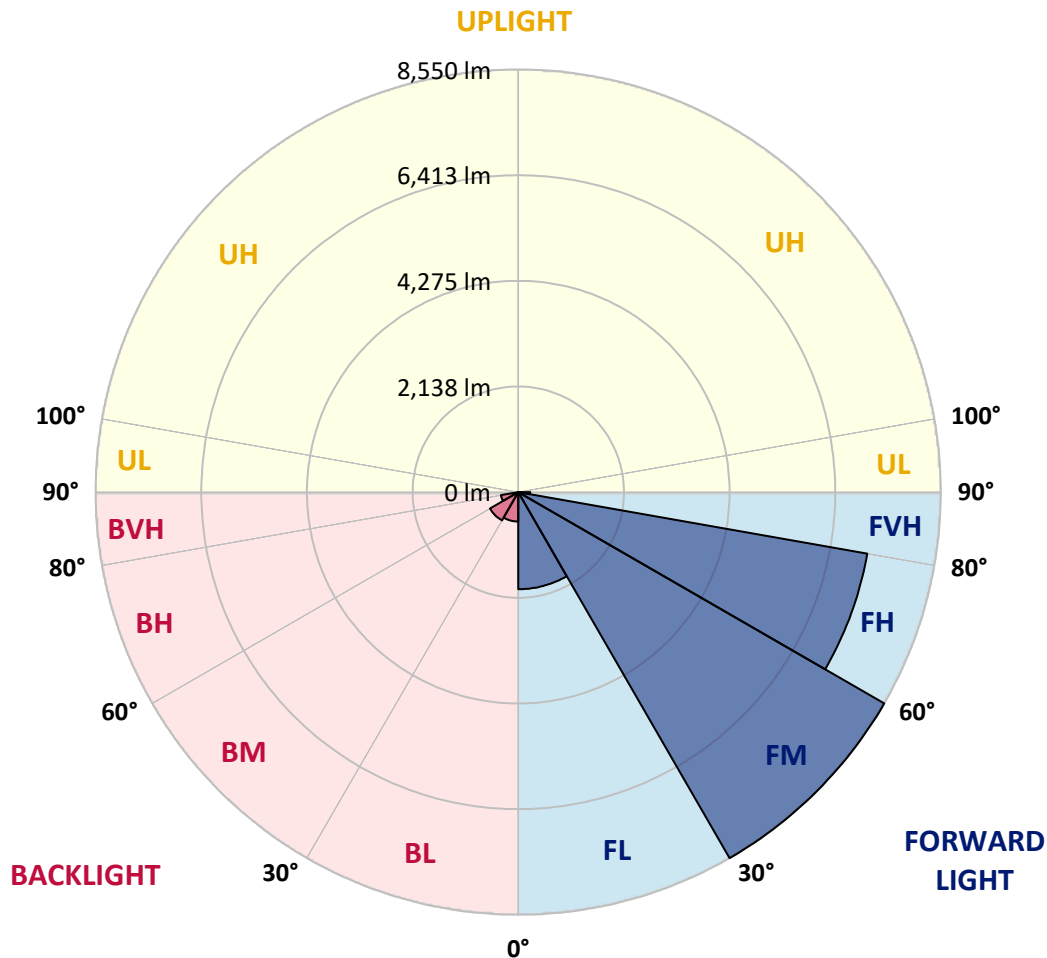
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1964.1 | 10.1 | | | |
| FM (30°-60°) | 8550.2 | 43.8 | | | |
| FH (60°-80°) | 7170.0 | 36.7 | | | G3/7500 |
| FVH (80°-90°) | 238.7 | 1.2 | | | G3/500 |
| BL (0°-30°) | 594.8 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 661.1 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 355.1 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.0 | 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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 |
| 2.5° | 6023.0 | 6043.8 | 6061.9 | 6028.2 | 6056.7 | 6015.2 | 5908.9 | 5885.5 | 5867.4 | 5709.1 | 5618.4 |
| 5° | 6020.4 | 5997.1 | 6015.2 | 6030.8 | 5991.9 | 6023.0 | 5997.1 | 5999.7 | 5929.6 | 5787.0 | 5532.8 |
| 7.5° | 5618.4 | 5608.0 | 5618.4 | 5693.6 | 5779.2 | 5846.6 | 5885.5 | 5924.4 | 5877.8 | 5665.1 | 5418.6 |
| 10° | 5076.2 | 5128.1 | 5156.7 | 5291.5 | 5423.8 | 5548.3 | 5670.2 | 5742.9 | 5729.9 | 5644.3 | 5294.1 |
| 12.5° | 4697.5 | 4682.0 | 4785.7 | 4873.9 | 5006.2 | 5257.8 | 5470.5 | 5538.0 | 5615.8 | 5496.5 | 5130.7 |
| 15° | 4347.4 | 4305.9 | 4368.1 | 4521.1 | 4746.8 | 4946.5 | 5244.8 | 5346.0 | 5444.6 | 5475.7 | 5042.5 |
| 17.5° | 4012.7 | 4033.5 | 4098.3 | 4235.8 | 4448.5 | 4728.7 | 5008.8 | 5154.1 | 5390.1 | 5348.6 | 4910.2 |
| 20° | 3851.9 | 3896.0 | 3919.4 | 3989.4 | 4137.3 | 4417.4 | 4835.0 | 4951.7 | 5203.3 | 5346.0 | 4780.5 |
| 22.5° | 3859.7 | 3859.7 | 3805.2 | 3846.7 | 3981.6 | 4199.5 | 4599.0 | 4728.7 | 5128.1 | 5211.1 | 4663.8 |
| 25° | 3942.7 | 3890.8 | 3893.4 | 3844.1 | 3901.2 | 4020.5 | 4386.3 | 4544.5 | 4975.1 | 5224.1 | 4601.6 |
| 27.5° | 4005.0 | 3994.6 | 3979.0 | 3966.1 | 3893.4 | 3911.6 | 4246.2 | 4375.9 | 4915.4 | 5208.5 | 4505.6 |
| 30° | 4230.6 | 4183.9 | 4168.4 | 4139.8 | 4043.9 | 3955.7 | 4134.7 | 4298.1 | 4868.7 | 5244.8 | 4451.1 |
| 32.5° | 4420.0 | 4427.8 | 4440.7 | 4357.7 | 4274.7 | 4056.8 | 4165.8 | 4295.5 | 4835.0 | 5327.8 | 4505.6 |
| 35° | 4658.6 | 4692.3 | 4697.5 | 4671.6 | 4583.4 | 4368.1 | 4295.5 | 4407.0 | 4892.1 | 5475.7 | 4510.8 |
| 37.5° | 5021.8 | 4985.5 | 5084.0 | 5094.4 | 5032.1 | 4746.8 | 4596.4 | 4640.5 | 5060.7 | 5711.7 | 4707.9 |
| 40° | 5257.8 | 5301.9 | 5486.1 | 5600.2 | 5493.9 | 5234.5 | 5032.1 | 5024.4 | 5304.5 | 6082.7 | 4951.7 |
| 42.5° | 5519.8 | 5618.4 | 5820.7 | 6067.1 | 6054.1 | 5812.9 | 5608.0 | 5574.3 | 5737.7 | 6619.6 | 5338.2 |
| 45° | 5877.8 | 5965.9 | 6248.7 | 6619.6 | 6821.9 | 6617.0 | 6308.3 | 6240.9 | 6264.2 | 7351.1 | 5997.1 |
| 47.5° | 6471.8 | 6448.4 | 6855.6 | 7221.4 | 7553.4 | 7395.2 | 7262.9 | 7065.8 | 7047.6 | 8212.3 | 6907.5 |
| 50° | 7143.6 | 7138.4 | 7501.5 | 7916.5 | 8300.4 | 8609.1 | 8388.6 | 8173.3 | 8178.5 | 9382.1 | 7978.8 |
| 52.5° | 7781.7 | 7882.8 | 8274.5 | 8686.9 | 9345.8 | 9677.8 | 9890.5 | 9804.9 | 9392.5 | 10427.4 | 9125.3 |
| 55° | 8118.9 | 8207.1 | 8596.1 | 9306.9 | 10347.0 | 11200.4 | 11776.3 | 11703.6 | 10907.3 | 11605.1 | 10256.2 |
| 57.5° | 7799.8 | 7859.5 | 8386.0 | 9317.2 | 11047.4 | 12951.3 | 13503.8 | 13413.0 | 12474.0 | 12505.1 | 11623.2 |
| 60° | 6464.0 | 6557.4 | 7340.7 | 8432.7 | 10775.0 | 14300.1 | 15882.4 | 15744.9 | 13900.7 | 13643.9 | 12502.5 |
| 62.5° | 4477.1 | 4539.3 | 5182.6 | 6541.8 | 9483.3 | 14769.6 | 18128.7 | 18203.9 | 15405.1 | 14531.0 | 12764.5 |
| 65° | 2900.0 | 2894.8 | 3263.1 | 4183.9 | 6720.8 | 13348.2 | 19456.8 | 19923.7 | 16857.7 | 14665.8 | 12684.1 |
| 67° | 2049.2 | 2041.4 | 2215.2 | 2837.7 | 4653.4 | 10998.1 | 19433.4 | 20437.3 | 17646.2 | 14704.8 | 11939.7 |
| 67.5° | 1890.9 | 1883.2 | 2049.2 | 2609.5 | 4199.5 | 10227.7 | 19142.9 | 20172.7 | 17923.8 | 14650.3 | 11612.8 |
| 70° | 1468.1 | 1447.4 | 1509.6 | 1797.6 | 2446.0 | 6614.4 | 16383.0 | 18530.7 | 17347.9 | 13291.1 | 9273.2 |
| 72.5° | 1060.9 | 1084.2 | 1182.8 | 1475.9 | 1919.5 | 3558.8 | 12487.0 | 14984.9 | 14489.5 | 10017.6 | 5893.3 |
| 75° | 739.3 | 760.0 | 918.2 | 1203.6 | 1761.3 | 2158.1 | 8443.1 | 10868.4 | 10092.8 | 5530.2 | 2510.9 |
| 77.5° | 386.5 | 412.4 | 586.2 | 962.3 | 1600.4 | 1670.5 | 5045.1 | 6892.0 | 5348.6 | 1968.8 | 692.6 |
| 80° | 179.0 | 191.9 | 293.1 | 682.2 | 1338.4 | 1468.1 | 2941.5 | 3833.8 | 2140.0 | 441.0 | 238.6 |
| 82.5° | 77.8 | 85.6 | 134.9 | 391.7 | 949.4 | 1284.0 | 1820.9 | 2010.3 | 775.6 | 142.7 | 147.9 |
| 85° | 15.6 | 18.2 | 51.9 | 207.5 | 459.1 | 778.2 | 1278.8 | 1193.2 | 389.1 | 70.0 | 116.7 |
| 87.5° | 0.0 | 0.0 | 13.0 | 59.7 | 124.5 | 230.9 | 542.1 | 542.1 | 119.3 | 36.3 | 44.1 |
| 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-SA4B-760-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 | 5535.4 |
| 2.5° | 5538.0 | 5444.6 | 5239.7 | 5050.3 | 4915.4 | 4762.4 | 4560.1 | 4469.3 | 4435.6 | 4388.9 | 4318.8 |
| 5° | 5392.7 | 5278.6 | 4928.4 | 4575.6 | 4189.1 | 3896.0 | 3584.8 | 3403.2 | 3265.7 | 3180.1 | 3151.6 |
| 7.5° | 5187.8 | 4954.3 | 4482.2 | 3916.8 | 3416.2 | 2980.4 | 2508.3 | 2189.2 | 1984.3 | 1901.3 | 1823.5 |
| 10° | 5024.4 | 4720.9 | 4002.4 | 3299.4 | 2632.8 | 1994.7 | 1463.0 | 1182.8 | 970.1 | 889.7 | 879.3 |
| 12.5° | 4811.7 | 4448.5 | 3553.6 | 2669.1 | 1831.3 | 1188.0 | 809.3 | 702.9 | 643.3 | 632.9 | 625.1 |
| 15° | 4635.3 | 4202.1 | 3128.2 | 2067.3 | 1185.4 | 741.9 | 630.3 | 604.4 | 588.8 | 583.6 | 586.2 |
| 17.5° | 4516.0 | 3937.5 | 2692.5 | 1504.5 | 780.8 | 607.0 | 581.0 | 565.5 | 557.7 | 555.1 | 547.3 |
| 20° | 4279.9 | 3714.4 | 2261.9 | 1053.1 | 609.6 | 560.3 | 539.5 | 526.6 | 518.8 | 516.2 | 513.6 |
| 22.5° | 4145.0 | 3431.7 | 1831.3 | 734.1 | 542.1 | 508.4 | 492.8 | 482.5 | 469.5 | 461.7 | 459.1 |
| 25° | 4010.2 | 3224.2 | 1447.4 | 570.7 | 492.8 | 469.5 | 446.1 | 433.2 | 412.4 | 402.1 | 399.5 |
| 27.5° | 3851.9 | 3019.3 | 1115.4 | 495.4 | 443.6 | 420.2 | 396.9 | 376.1 | 350.2 | 339.8 | 334.6 |
| 30° | 3761.1 | 2819.6 | 840.4 | 443.6 | 407.2 | 376.1 | 347.6 | 321.6 | 293.1 | 275.0 | 269.8 |
| 32.5° | 3714.4 | 2638.0 | 630.3 | 404.6 | 368.3 | 334.6 | 298.3 | 267.2 | 241.2 | 225.7 | 223.1 |
| 35° | 3657.4 | 2461.6 | 495.4 | 368.3 | 332.0 | 295.7 | 259.4 | 228.3 | 202.3 | 189.4 | 184.2 |
| 37.5° | 3717.0 | 2357.8 | 412.4 | 339.8 | 303.5 | 262.0 | 223.1 | 191.9 | 171.2 | 158.2 | 155.6 |
| 40° | 3880.5 | 2272.2 | 358.0 | 313.9 | 275.0 | 230.9 | 194.5 | 163.4 | 145.3 | 134.9 | 129.7 |
| 42.5° | 4132.1 | 2272.2 | 324.2 | 287.9 | 249.0 | 202.3 | 166.0 | 142.7 | 124.5 | 114.1 | 111.5 |
| 45° | 4588.6 | 2342.3 | 295.7 | 262.0 | 217.9 | 173.8 | 142.7 | 119.3 | 101.2 | 90.8 | 88.2 |
| 47.5° | 5229.3 | 2503.1 | 272.4 | 238.6 | 194.5 | 153.0 | 124.5 | 101.2 | 83.0 | 72.6 | 70.0 |
| 50° | 6090.5 | 2868.8 | 249.0 | 210.1 | 173.8 | 132.3 | 103.8 | 80.4 | 64.8 | 54.5 | 51.9 |
| 52.5° | 7164.3 | 3387.6 | 225.7 | 194.5 | 147.9 | 111.5 | 83.0 | 64.8 | 49.3 | 41.5 | 38.9 |
| 55° | 8300.4 | 4023.1 | 197.1 | 173.8 | 127.1 | 93.4 | 67.4 | 49.3 | 36.3 | 31.1 | 28.5 |
| 57.5° | 9444.4 | 4513.4 | 173.8 | 150.4 | 103.8 | 75.2 | 54.5 | 38.9 | 25.9 | 20.8 | 18.2 |
| 60° | 10051.3 | 4560.1 | 150.4 | 124.5 | 83.0 | 59.7 | 41.5 | 28.5 | 18.2 | 13.0 | 10.4 |
| 62.5° | 10144.7 | 4145.0 | 129.7 | 101.2 | 67.4 | 46.7 | 28.5 | 20.8 | 10.4 | 5.2 | 5.2 |
| 65° | 9664.8 | 3455.1 | 111.5 | 80.4 | 51.9 | 33.7 | 20.8 | 13.0 | 5.2 | 2.6 | 0.0 |
| 67° | 8886.7 | 2894.8 | 96.0 | 67.4 | 41.5 | 25.9 | 15.6 | 7.8 | 2.6 | 0.0 | 0.0 |
| 67.5° | 8585.8 | 2739.1 | 90.8 | 62.3 | 38.9 | 23.3 | 13.0 | 7.8 | 2.6 | 0.0 | 0.0 |
| 70° | 6663.7 | 1955.8 | 67.4 | 44.1 | 28.5 | 18.2 | 10.4 | 5.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4082.8 | 1143.9 | 51.9 | 31.1 | 20.8 | 13.0 | 7.8 | 2.6 | 0.0 | 0.0 | 0.0 |
| 75° | 1712.0 | 394.3 | 44.1 | 23.3 | 15.6 | 7.8 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 77.5° | 446.1 | 147.9 | 31.1 | 15.6 | 10.4 | 7.8 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 80° | 181.6 | 67.4 | 20.8 | 10.4 | 10.4 | 7.8 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 119.3 | 31.1 | 13.0 | 10.4 | 7.8 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 90.8 | 18.2 | 7.8 | 7.8 | 5.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 38.9 | 10.4 | 7.8 | 5.2 | 5.2 | 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)