

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: P481372

Luminaire Tested: **IFLD-S-SA6D-760-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481372
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-760-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

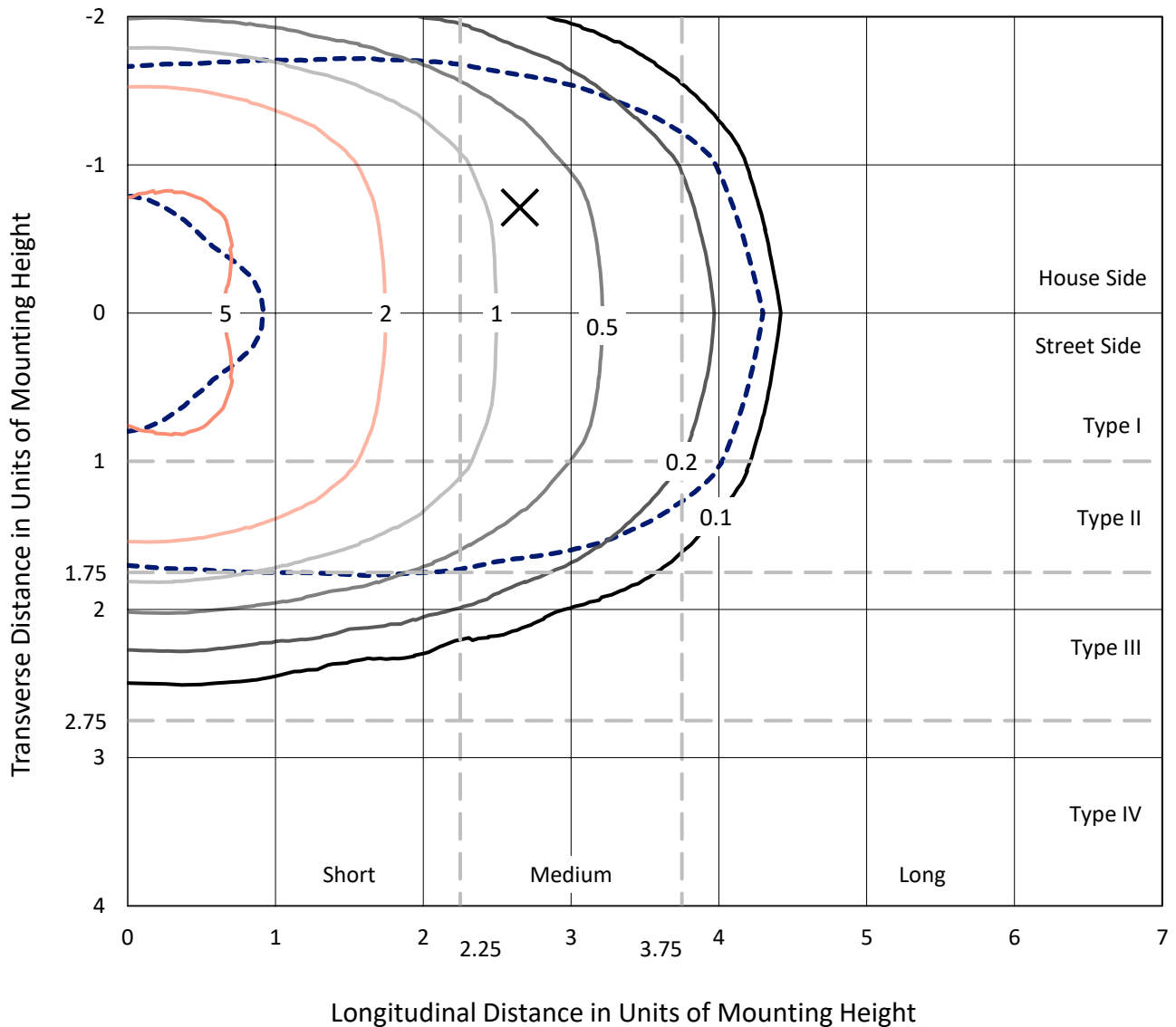
Lumens per Lamp: N/A
Luminaire Lumens: 48173.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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

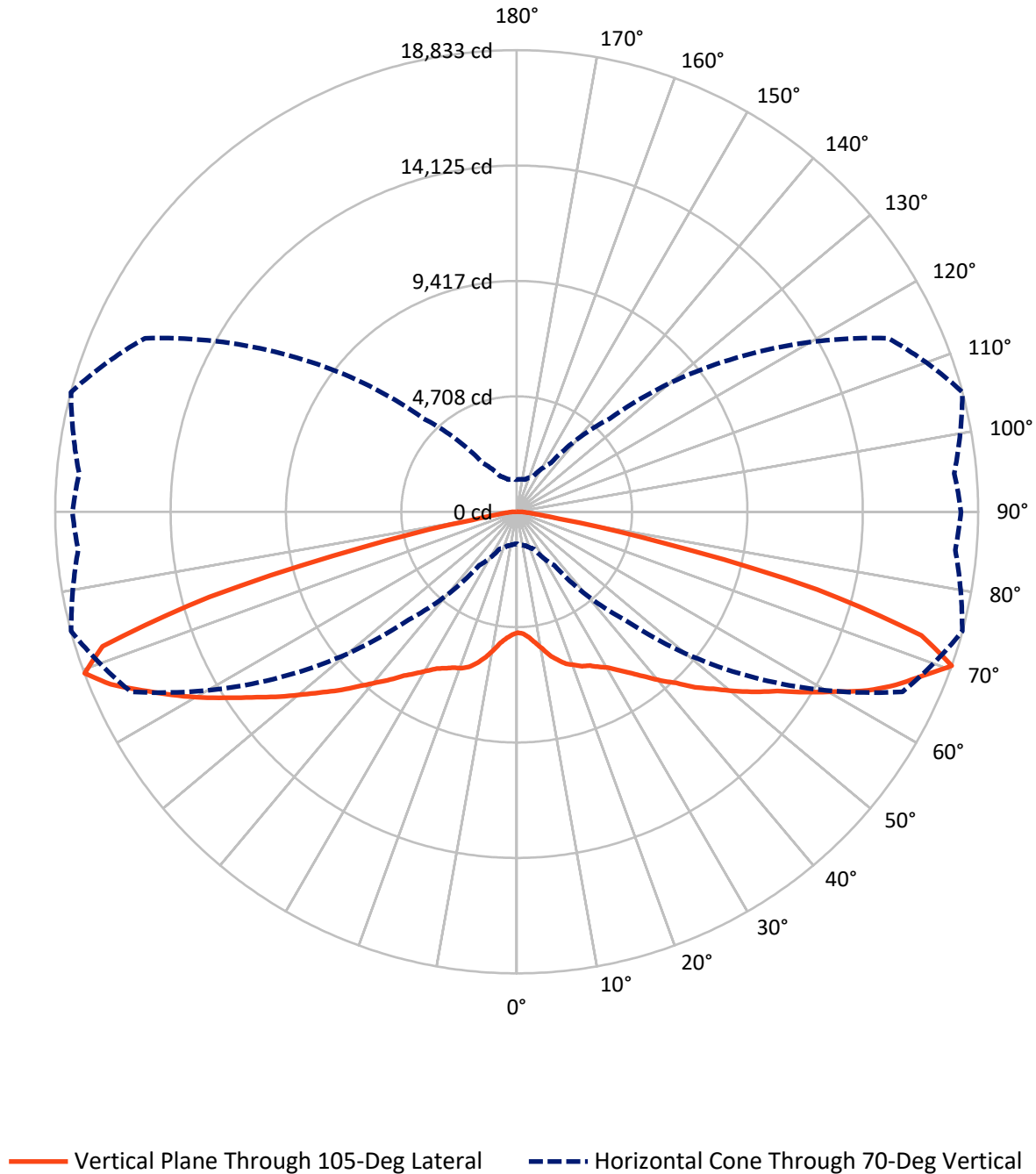
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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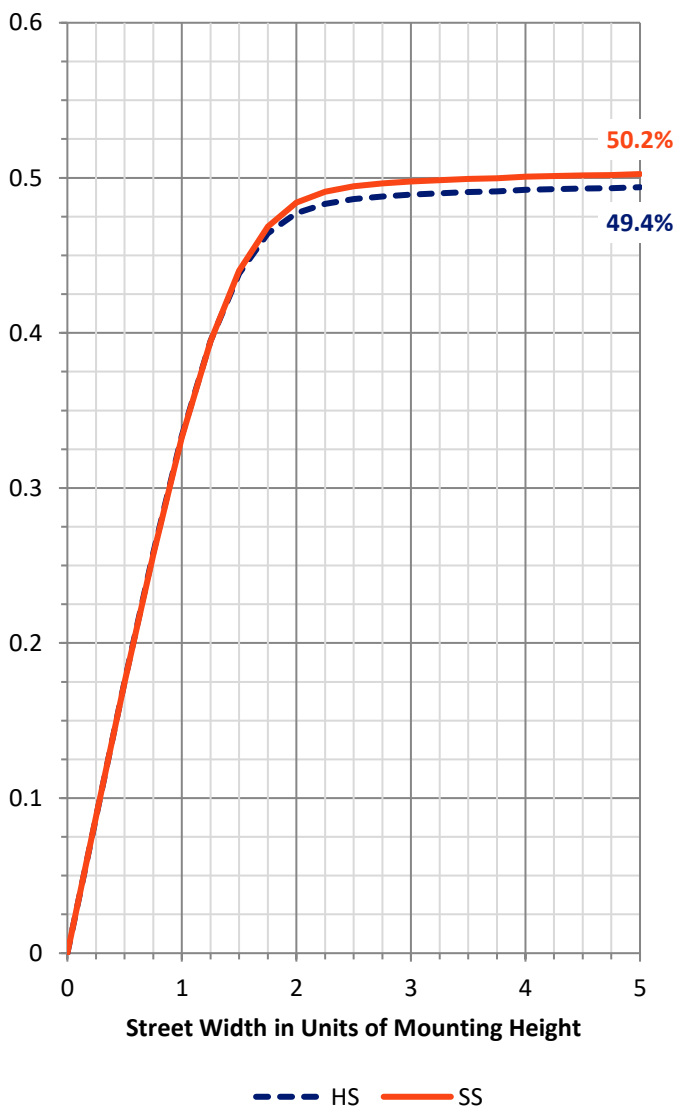
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23915.2 | 0.0 | 23915.2 |
| | % Fixture | 49.6 | 0.0 | 49.6 |
| Street Side | Lumens | 24258.0 | 0.0 | 24258.0 |
| | % Fixture | 50.4 | 0.0 | 50.4 |
| Total | Lumens | 48173.2 | 0.0 | 48173.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 491.0 | 1.0 |
| 10°-20° | 1671.8 | 3.5 |
| 20°-30° | 3237.1 | 6.7 |
| 30°-40° | 5475.3 | 11.4 |
| 40°-50° | 8734.8 | 18.1 |
| 50°-60° | 11956.0 | 24.8 |
| 60°-70° | 11269.3 | 23.4 |
| 70°-80° | 4964.5 | 10.3 |
| 80°-90° | 373.5 | 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° | 48173.2 | 100.0 |
| 0°-180° | 48173.2 | 100.0 |

Coefficient of Utilization



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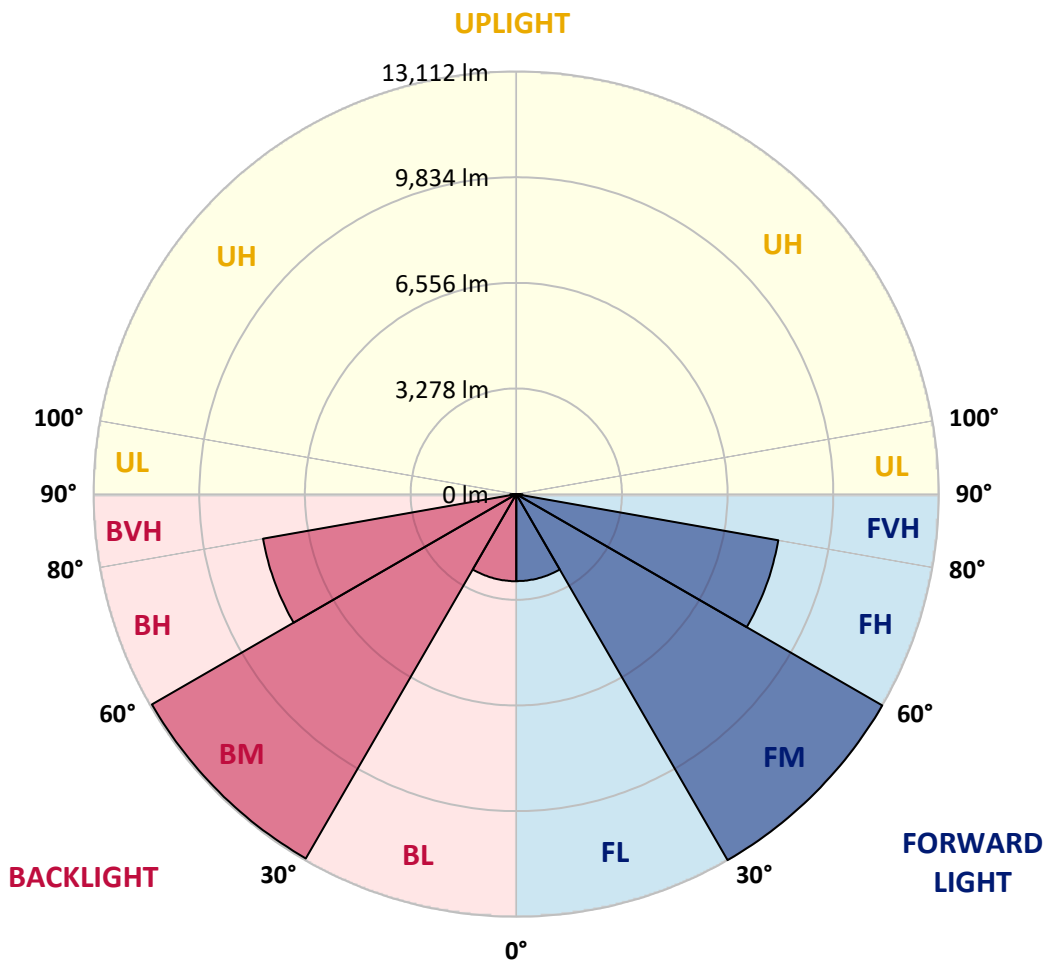
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2698.5 | 5.6 | | | |
| FM (30°-60°) | 13112.3 | 27.2 | | | |
| FH (60°-80°) | 8256.4 | 17.1 | | | G4/12000 |
| FVH (80°-90°) | 190.8 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2701.4 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 13053.7 | 27.1 | B5 | | |
| BH (60°-80°) | 7977.4 | 16.6 | B5 | | G5 |
| BVH (80°-90°) | 182.7 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 |
| 2.5° | 4901.7 | 4901.7 | 4896.5 | 4922.5 | 4948.5 | 4958.9 | 4979.6 | 4984.8 | 5016.0 | 4990.0 | 5041.9 |
| 5° | 4886.2 | 4881.0 | 4922.5 | 4984.8 | 4984.8 | 5052.3 | 5093.9 | 5151.0 | 5166.6 | 5197.7 | 5208.1 |
| 7.5° | 4995.2 | 4984.8 | 4964.0 | 5031.5 | 5088.7 | 5192.5 | 5249.6 | 5348.3 | 5384.6 | 5426.2 | 5472.9 |
| 10° | 5062.7 | 5062.7 | 5041.9 | 5161.4 | 5213.3 | 5353.5 | 5478.1 | 5576.8 | 5717.0 | 5763.7 | 5768.9 |
| 12.5° | 5073.1 | 5088.7 | 5151.0 | 5306.8 | 5452.1 | 5633.9 | 5727.3 | 5914.3 | 6054.5 | 6142.7 | 6173.9 |
| 15° | 5228.9 | 5197.7 | 5265.2 | 5478.1 | 5691.0 | 5852.0 | 6018.1 | 6153.1 | 6355.6 | 6469.9 | 6542.6 |
| 17.5° | 5369.1 | 5337.9 | 5462.5 | 5717.0 | 5935.0 | 6184.3 | 6329.7 | 6475.1 | 6620.5 | 6724.3 | 6729.5 |
| 20° | 5592.3 | 5618.3 | 5727.3 | 6002.5 | 6288.1 | 6506.2 | 6672.4 | 6698.3 | 6771.0 | 6921.6 | 6895.7 |
| 22.5° | 5867.5 | 5846.8 | 6075.2 | 6376.4 | 6688.0 | 6869.7 | 6963.2 | 6895.7 | 6859.3 | 7020.3 | 7056.6 |
| 25° | 6142.7 | 6205.1 | 6412.8 | 6693.2 | 7067.0 | 7311.1 | 7337.0 | 7150.1 | 7015.1 | 7072.2 | 7056.6 |
| 27.5° | 6563.3 | 6573.7 | 6791.8 | 7124.1 | 7503.2 | 7716.1 | 7700.5 | 7435.7 | 7176.1 | 7181.2 | 7191.6 |
| 30° | 7103.4 | 7051.4 | 7290.3 | 7591.5 | 7965.3 | 8157.4 | 8183.4 | 7804.4 | 7456.5 | 7352.6 | 7378.6 |
| 32.5° | 7622.6 | 7684.9 | 7892.6 | 8235.3 | 8510.5 | 8619.6 | 8562.5 | 8224.9 | 7773.2 | 7633.0 | 7648.6 |
| 35° | 8287.3 | 8276.9 | 8562.5 | 8853.2 | 9060.9 | 9081.7 | 9035.0 | 8541.7 | 8115.9 | 7934.2 | 7861.5 |
| 37.5° | 8998.6 | 9092.1 | 9279.0 | 9517.9 | 9736.0 | 9746.4 | 9491.9 | 9097.3 | 8572.8 | 8271.7 | 8359.9 |
| 40° | 9793.1 | 9896.9 | 10031.9 | 10379.8 | 10540.8 | 10374.6 | 10115.0 | 9580.2 | 9035.0 | 8770.2 | 8811.7 |
| 42.5° | 10494.1 | 10540.8 | 10816.0 | 11226.2 | 11304.1 | 11231.4 | 10847.2 | 10198.1 | 9564.6 | 9273.8 | 9294.6 |
| 45° | 11137.9 | 11200.3 | 11558.5 | 11927.2 | 12108.9 | 11984.3 | 11537.8 | 10919.9 | 10182.5 | 9933.3 | 9834.6 |
| 47.5° | 11729.9 | 11854.5 | 12202.4 | 12581.5 | 12861.9 | 12872.2 | 12321.8 | 11574.1 | 10795.2 | 10468.1 | 10462.9 |
| 50° | 12129.7 | 12311.5 | 12654.2 | 13085.1 | 13495.3 | 13656.3 | 13105.9 | 12301.1 | 11465.1 | 11117.2 | 11080.8 |
| 52.5° | 12347.8 | 12534.7 | 12877.4 | 13547.3 | 14004.2 | 14253.5 | 13993.8 | 12981.3 | 12249.1 | 11885.7 | 11828.5 |
| 55° | 12083.0 | 12207.6 | 12768.4 | 13708.2 | 14414.4 | 14824.6 | 14653.3 | 13921.1 | 13028.0 | 12732.0 | 12784.0 |
| 57.5° | 10956.2 | 11215.8 | 11906.4 | 13079.9 | 14404.0 | 15411.4 | 15395.8 | 14809.1 | 13926.3 | 13645.9 | 13656.3 |
| 60° | 9019.4 | 9237.5 | 10089.1 | 11729.9 | 13822.5 | 15650.2 | 16200.6 | 15671.0 | 14933.7 | 14606.5 | 14596.2 |
| 62.5° | 6366.0 | 6641.2 | 7627.8 | 9419.2 | 12108.9 | 15317.9 | 17124.9 | 16756.2 | 15920.3 | 15681.4 | 15769.7 |
| 65° | 3562.1 | 3728.2 | 4642.1 | 6262.2 | 9227.1 | 13490.2 | 17291.1 | 17883.0 | 16922.4 | 16558.9 | 16574.5 |
| 67.5° | 1905.7 | 1968.0 | 2393.7 | 3286.9 | 5644.3 | 10400.6 | 15613.9 | 18532.1 | 18007.6 | 17379.3 | 17280.7 |
| 70° | 1308.5 | 1329.3 | 1438.3 | 1682.4 | 2669.0 | 6220.6 | 11776.6 | 17374.2 | 18822.9 | 17966.1 | 18132.3 |
| 72.5° | 1106.0 | 1095.6 | 1121.6 | 1147.5 | 1396.8 | 2783.2 | 6911.2 | 13370.7 | 17768.8 | 17446.9 | 17384.5 |
| 75° | 960.6 | 955.4 | 965.8 | 939.8 | 971.0 | 1225.4 | 3058.4 | 8334.0 | 13007.3 | 14518.3 | 14751.9 |
| 77.5° | 794.5 | 799.6 | 804.8 | 778.9 | 768.5 | 810.0 | 1230.6 | 3660.7 | 6402.4 | 7067.0 | 7622.6 |
| 80° | 602.3 | 612.7 | 654.3 | 628.3 | 586.8 | 591.9 | 727.0 | 1225.4 | 1838.2 | 1666.8 | 1718.7 |
| 82.5° | 410.2 | 415.4 | 503.7 | 472.5 | 441.4 | 399.8 | 467.3 | 633.5 | 716.6 | 545.2 | 477.7 |
| 85° | 290.8 | 285.6 | 327.1 | 301.2 | 280.4 | 202.5 | 280.4 | 358.3 | 431.0 | 270.0 | 244.0 |
| 87.5° | 67.5 | 67.5 | 135.0 | 109.0 | 103.9 | 83.1 | 109.0 | 140.2 | 186.9 | 119.4 | 109.0 |
| 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-S-SA6D-760-U-RW

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 | 4932.9 |
| 2.5° | 5026.4 | 4979.6 | 4979.6 | 4969.2 | 4927.7 | 4917.3 | 4881.0 | 4891.3 | 4865.4 | 4839.4 |
| 5° | 5202.9 | 5140.6 | 5140.6 | 5052.3 | 4969.2 | 4958.9 | 4917.3 | 4917.3 | 4875.8 | 4886.2 |
| 7.5° | 5446.9 | 5389.8 | 5296.4 | 5218.5 | 5104.2 | 5057.5 | 4979.6 | 4969.2 | 4958.9 | 4938.1 |
| 10° | 5737.7 | 5665.0 | 5571.6 | 5410.6 | 5317.1 | 5228.9 | 5151.0 | 5041.9 | 5016.0 | 5021.2 |
| 12.5° | 6132.4 | 6018.1 | 5815.6 | 5675.4 | 5556.0 | 5441.8 | 5327.5 | 5166.6 | 5130.2 | 5145.8 |
| 15° | 6412.8 | 6267.4 | 6064.9 | 6012.9 | 5852.0 | 5711.8 | 5524.8 | 5343.1 | 5280.8 | 5265.2 |
| 17.5° | 6641.2 | 6521.8 | 6402.4 | 6324.5 | 6194.7 | 6023.3 | 5763.7 | 5556.0 | 5415.8 | 5400.2 |
| 20° | 6828.2 | 6672.4 | 6646.4 | 6693.2 | 6532.2 | 6417.9 | 6101.2 | 5846.8 | 5659.8 | 5582.0 |
| 22.5° | 6942.4 | 6843.7 | 6916.4 | 6958.0 | 6947.6 | 6755.5 | 6428.3 | 6132.4 | 5898.7 | 5826.0 |
| 25° | 7067.0 | 6952.8 | 7212.4 | 7352.6 | 7388.9 | 7072.2 | 6817.8 | 6428.3 | 6199.9 | 6153.1 |
| 27.5° | 7129.3 | 7170.9 | 7472.0 | 7768.0 | 7742.0 | 7498.0 | 7155.3 | 6807.4 | 6625.6 | 6542.6 |
| 30° | 7311.1 | 7378.6 | 7835.5 | 8167.8 | 8173.0 | 7934.2 | 7674.5 | 7279.9 | 7077.4 | 7041.1 |
| 32.5° | 7638.2 | 7721.3 | 8209.4 | 8562.5 | 8624.8 | 8443.0 | 8183.4 | 7939.4 | 7731.7 | 7648.6 |
| 35° | 7887.4 | 8100.3 | 8650.7 | 8972.7 | 9138.8 | 9029.8 | 8884.4 | 8630.0 | 8411.9 | 8339.2 |
| 37.5° | 8245.7 | 8541.7 | 9071.3 | 9507.5 | 9694.4 | 9684.0 | 9575.0 | 9299.8 | 9118.1 | 9055.7 |
| 40° | 8759.8 | 9055.7 | 9538.7 | 10115.0 | 10462.9 | 10447.3 | 10385.0 | 10172.1 | 9902.1 | 9871.0 |
| 42.5° | 9305.0 | 9549.0 | 10177.3 | 10836.8 | 11335.3 | 11283.3 | 11117.2 | 10867.9 | 10681.0 | 10639.5 |
| 45° | 9834.6 | 10213.7 | 10795.2 | 11641.6 | 12015.5 | 12145.3 | 11948.0 | 11522.2 | 11309.3 | 11283.3 |
| 47.5° | 10499.3 | 10800.4 | 11527.4 | 12285.5 | 12841.1 | 12861.9 | 12524.3 | 12129.7 | 11740.3 | 11823.4 |
| 50° | 11091.2 | 11491.0 | 12228.4 | 13059.2 | 13723.8 | 13485.0 | 13054.0 | 12560.7 | 12280.3 | 12171.3 |
| 52.5° | 11724.7 | 12212.8 | 13069.6 | 13915.9 | 14284.6 | 14045.8 | 13344.8 | 12794.4 | 12368.6 | 12321.8 |
| 55° | 12649.0 | 12903.4 | 14025.0 | 14674.0 | 14793.5 | 14289.8 | 13256.5 | 12477.6 | 11927.2 | 11792.2 |
| 57.5° | 13588.8 | 13884.8 | 14866.2 | 15427.0 | 15302.3 | 14154.8 | 12685.3 | 11480.7 | 10758.9 | 10566.8 |
| 60° | 14539.0 | 14902.5 | 15728.1 | 16242.2 | 15598.3 | 13225.3 | 11070.4 | 9517.9 | 8676.7 | 8505.3 |
| 62.5° | 15598.3 | 16070.8 | 16808.2 | 16989.9 | 14720.8 | 11387.2 | 8785.7 | 6869.7 | 6018.1 | 5732.5 |
| 65° | 16538.2 | 17021.1 | 17929.8 | 16834.1 | 12856.7 | 8495.0 | 5680.6 | 3925.5 | 3297.2 | 3068.8 |
| 67.5° | 17311.8 | 17857.1 | 18303.6 | 14897.3 | 9414.0 | 4974.4 | 2959.7 | 2066.6 | 1833.0 | 1749.9 |
| 70° | 17924.6 | 18833.3 | 16745.9 | 10951.0 | 5379.4 | 2424.9 | 1599.3 | 1360.4 | 1329.3 | 1308.5 |
| 72.5° | 17389.7 | 17270.3 | 12503.6 | 6319.3 | 2357.4 | 1334.5 | 1157.9 | 1121.6 | 1116.4 | 1121.6 |
| 75° | 14222.3 | 12685.3 | 7477.2 | 2746.8 | 1183.9 | 965.8 | 960.6 | 945.0 | 971.0 | 971.0 |
| 77.5° | 6900.9 | 6033.7 | 3125.9 | 1178.7 | 778.9 | 758.1 | 784.1 | 784.1 | 784.1 | 784.1 |
| 80° | 1599.3 | 1770.6 | 1116.4 | 716.6 | 566.0 | 566.0 | 623.1 | 628.3 | 602.3 | 591.9 |
| 82.5° | 545.2 | 727.0 | 612.7 | 451.7 | 373.9 | 420.6 | 472.5 | 482.9 | 399.8 | 405.0 |
| 85° | 270.0 | 425.8 | 332.3 | 259.6 | 192.1 | 259.6 | 306.4 | 321.9 | 275.2 | 264.8 |
| 87.5° | 124.6 | 186.9 | 124.6 | 88.3 | 67.5 | 93.5 | 88.3 | 72.7 | 41.5 | 41.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)