

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: P483334

Luminaire Tested: **IFLD-L-SA8A-760-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483334
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

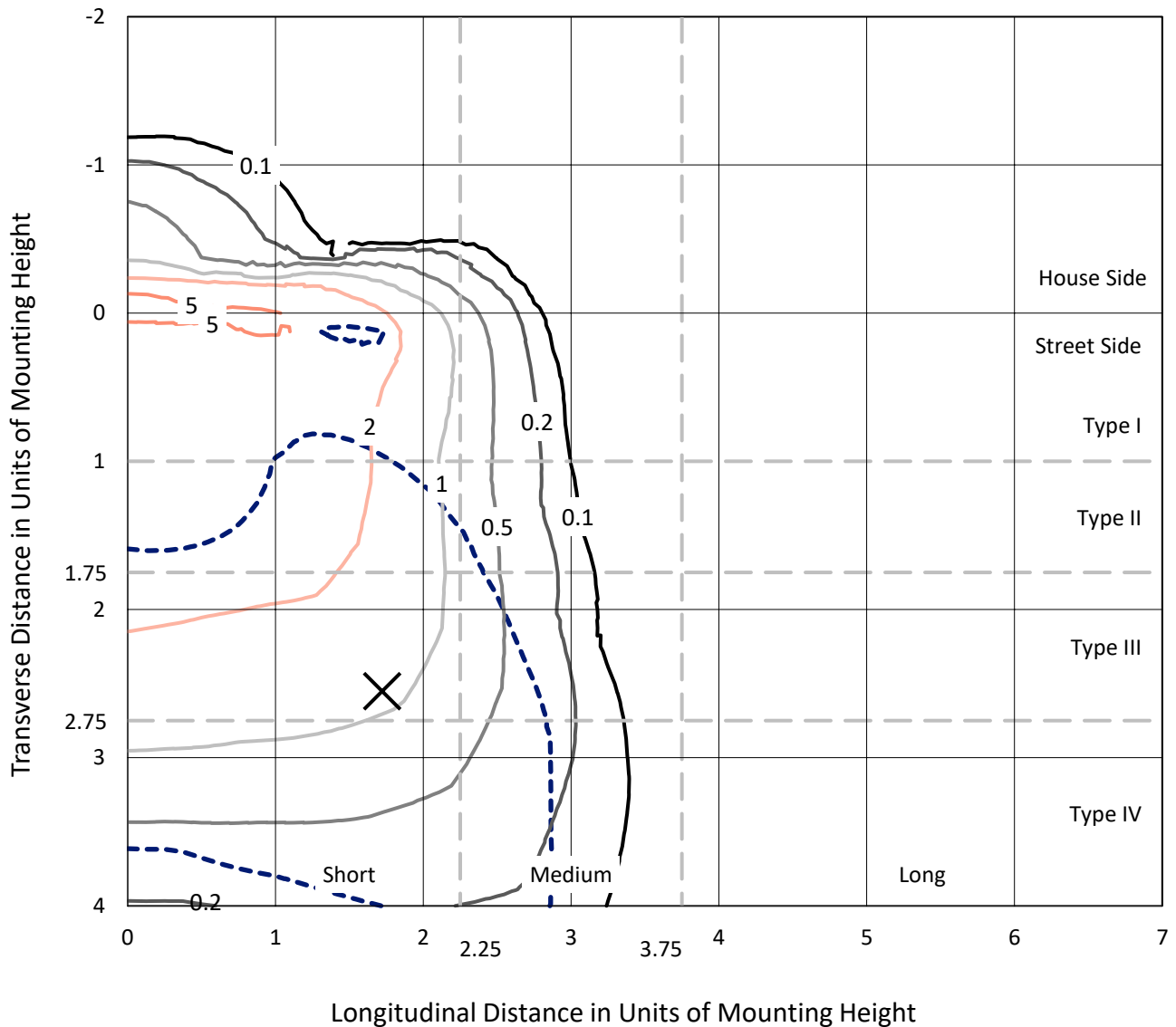
Lumens per Lamp: N/A
Luminaire Lumens: 25337.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

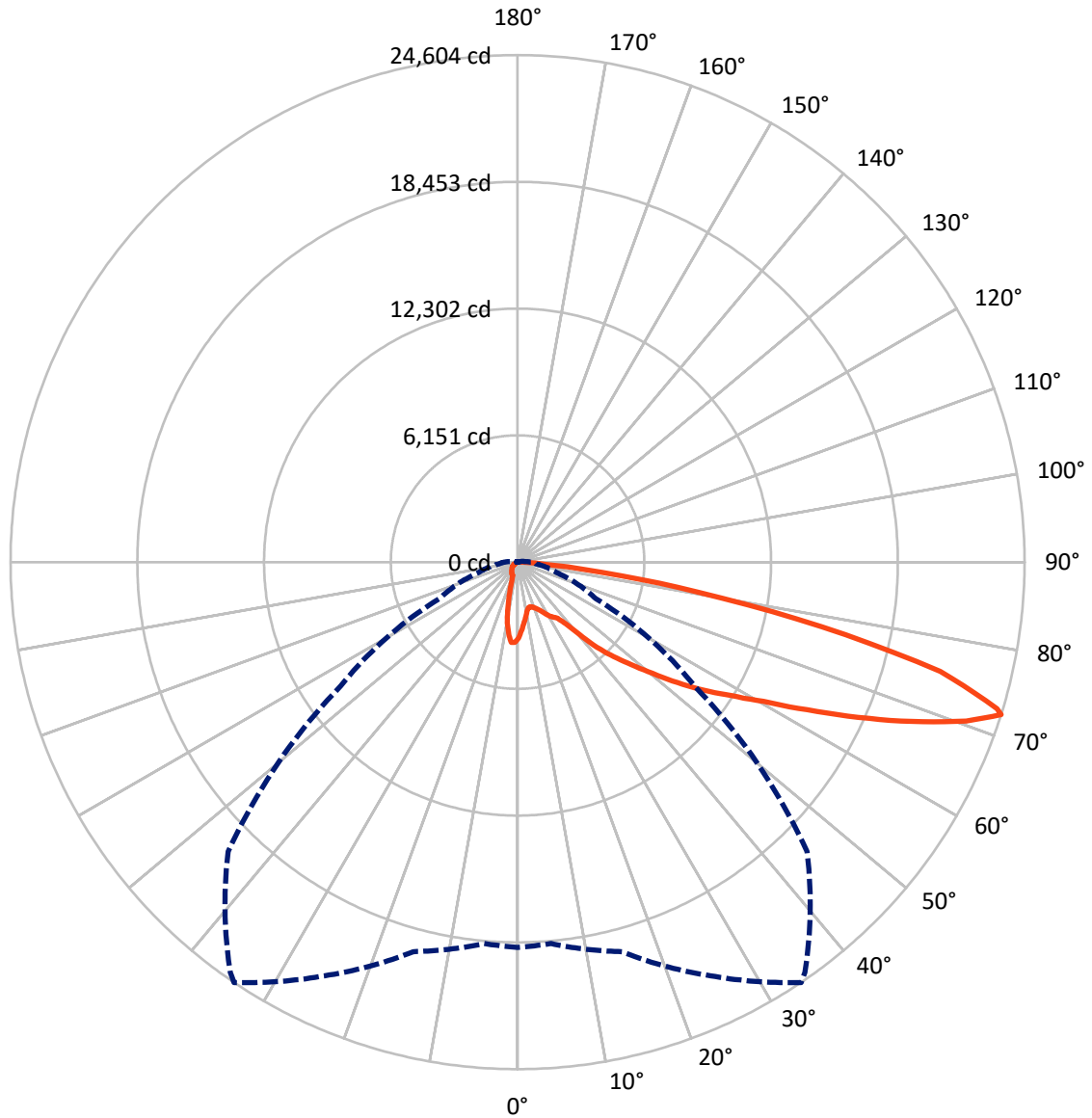
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2594.0 | 0.0 | 2594.0 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 22743.5 | 0.0 | 22743.5 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 25337.5 | 0.0 | 25337.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 321.8 | 1.3 |
| 10°-20° | 728.5 | 2.9 |
| 20°-30° | 1099.6 | 4.3 |
| 30°-40° | 1784.5 | 7.0 |
| 40°-50° | 3355.7 | 13.2 |
| 50°-60° | 5486.6 | 21.7 |
| 60°-70° | 7293.6 | 28.8 |
| 70°-80° | 4884.5 | 19.3 |
| 80°-90° | 382.8 | 1.5 |
| 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° | 25337.5 | 100.0 |
| 0°-180° | 25337.5 | 100.0 |

Coefficient of Utilization



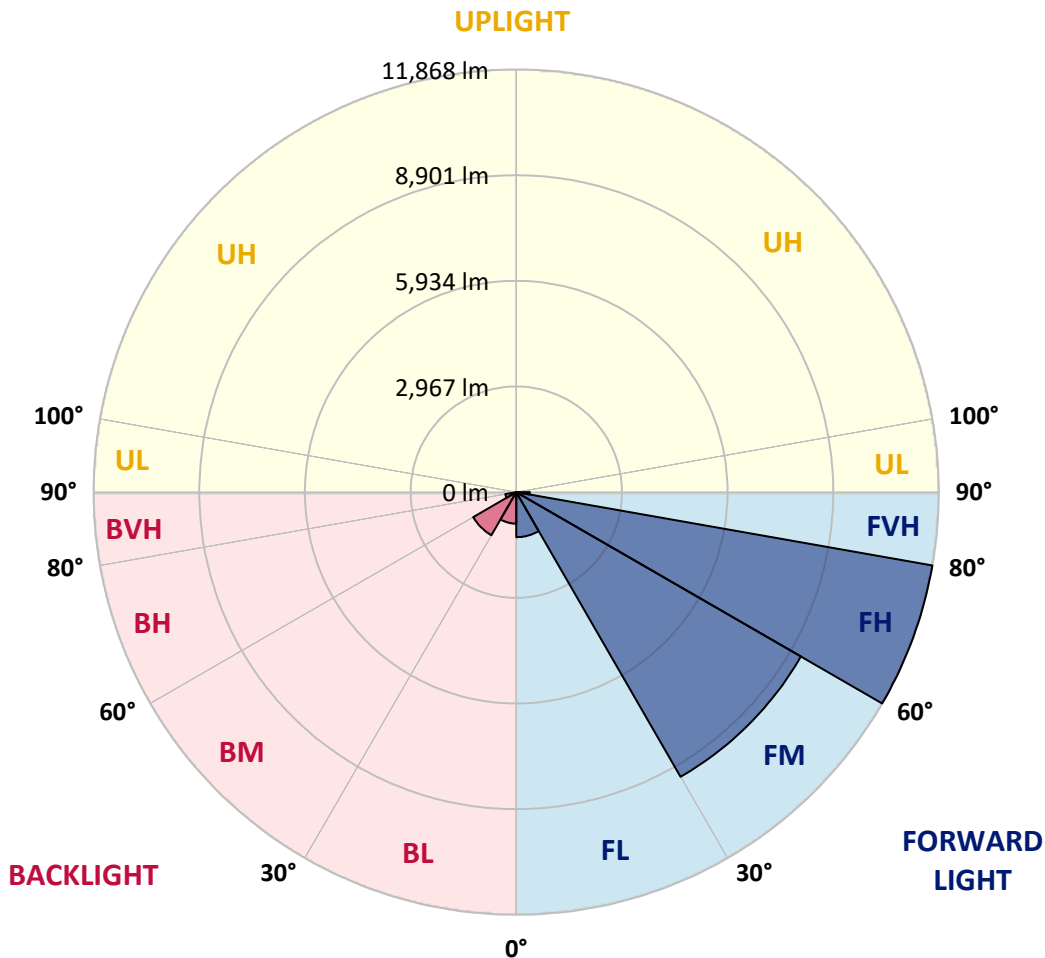
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1264.9 | 5.0 | | | |
| FM (30°-60°) | 9230.4 | 36.4 | | | |
| FH (60°-80°) | 11867.9 | 46.8 | | | G4/12000 |
| FVH (80°-90°) | 380.4 | 1.5 | | | G3/500 |
| BL (0°-30°) | 885.1 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1396.3 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 310.2 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.4 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 |
| 2.5° | 3278.3 | 3271.0 | 3293.0 | 3329.6 | 3366.2 | 3351.6 | 3421.2 | 3494.4 | 3545.7 | 3615.3 | 3699.6 |
| 5° | 2864.4 | 2882.7 | 2904.7 | 2978.0 | 3025.6 | 3036.6 | 3164.8 | 3260.0 | 3417.5 | 3578.7 | 3728.9 |
| 7.5° | 2487.1 | 2509.1 | 2553.1 | 2633.7 | 2732.6 | 2758.2 | 2886.4 | 3076.9 | 3282.0 | 3494.4 | 3739.9 |
| 10° | 2212.4 | 2234.4 | 2282.0 | 2333.3 | 2465.2 | 2465.2 | 2641.0 | 2904.7 | 3172.1 | 3421.2 | 3743.5 |
| 12.5° | 2153.8 | 2164.8 | 2161.1 | 2201.4 | 2285.7 | 2304.0 | 2476.1 | 2765.5 | 3076.9 | 3395.5 | 3802.1 |
| 15° | 2223.4 | 2230.7 | 2194.1 | 2172.1 | 2245.4 | 2263.7 | 2424.9 | 2681.3 | 3014.6 | 3410.2 | 3897.4 |
| 17.5° | 2362.6 | 2337.0 | 2263.7 | 2230.7 | 2293.0 | 2304.0 | 2454.2 | 2677.6 | 3007.3 | 3450.5 | 4007.3 |
| 20° | 2443.2 | 2472.5 | 2344.3 | 2282.0 | 2369.9 | 2384.6 | 2545.7 | 2736.2 | 3043.9 | 3520.1 | 4161.1 |
| 22.5° | 2586.0 | 2600.7 | 2428.5 | 2388.2 | 2472.5 | 2472.5 | 2655.6 | 2853.4 | 3131.8 | 3633.6 | 4344.2 |
| 25° | 2787.5 | 2769.2 | 2567.7 | 2527.4 | 2608.0 | 2641.0 | 2824.1 | 3040.2 | 3267.3 | 3739.9 | 4512.7 |
| 27.5° | 2945.0 | 2956.0 | 2791.2 | 2684.9 | 2820.5 | 2842.4 | 3040.2 | 3241.7 | 3369.9 | 3827.8 | 4717.9 |
| 30° | 3179.4 | 3157.5 | 2981.6 | 2860.8 | 3029.3 | 3032.9 | 3223.4 | 3432.2 | 3567.7 | 3985.3 | 5025.6 |
| 32.5° | 3457.8 | 3413.9 | 3212.4 | 3040.2 | 3175.8 | 3208.7 | 3402.9 | 3706.9 | 3875.4 | 4282.0 | 5501.7 |
| 35° | 4047.5 | 3941.3 | 3611.7 | 3344.3 | 3355.3 | 3369.9 | 3670.3 | 4106.2 | 4300.3 | 4659.3 | 6139.1 |
| 37.5° | 4908.3 | 4864.4 | 4490.8 | 3981.6 | 3787.5 | 3743.5 | 4080.5 | 4633.6 | 4875.4 | 5157.4 | 6966.9 |
| 40° | 5761.8 | 5699.5 | 5351.6 | 4966.9 | 4615.3 | 4527.4 | 4695.9 | 5333.2 | 5553.0 | 5849.7 | 7816.7 |
| 42.5° | 6710.5 | 6600.6 | 6190.4 | 5879.0 | 5659.2 | 5564.0 | 5498.1 | 6212.3 | 6461.4 | 6662.9 | 8648.2 |
| 45° | 7670.2 | 7490.7 | 6897.3 | 6659.2 | 6542.0 | 6490.7 | 6483.4 | 7318.6 | 7468.7 | 7509.0 | 9571.3 |
| 47.5° | 8512.7 | 8318.5 | 7780.1 | 7512.7 | 7424.8 | 7410.1 | 7820.4 | 8593.3 | 8476.0 | 8369.8 | 10600.6 |
| 50° | 9161.0 | 9036.5 | 8648.2 | 8553.0 | 8487.0 | 8461.4 | 9421.1 | 9904.6 | 9362.5 | 9175.7 | 11505.3 |
| 52.5° | 10164.7 | 9886.3 | 9446.7 | 9479.7 | 9710.5 | 9714.1 | 11043.8 | 11150.0 | 10098.7 | 9728.8 | 12358.8 |
| 55° | 10966.8 | 10783.7 | 10424.7 | 10377.1 | 10985.2 | 11051.1 | 12498.0 | 12095.0 | 10509.0 | 10256.2 | 12673.8 |
| 57.5° | 11911.9 | 11827.6 | 11567.6 | 11574.9 | 12212.2 | 12351.4 | 13791.0 | 12893.6 | 10849.6 | 10596.9 | 12721.4 |
| 60° | 13278.2 | 13036.4 | 12900.9 | 12963.1 | 13714.1 | 13849.6 | 15043.7 | 13468.6 | 11014.5 | 10820.3 | 12604.2 |
| 62.5° | 14787.3 | 14505.2 | 14358.7 | 14677.4 | 15772.6 | 15794.6 | 15996.1 | 13977.8 | 10911.9 | 10878.9 | 11849.6 |
| 65° | 16604.1 | 16325.7 | 16208.5 | 16849.5 | 18149.9 | 18069.3 | 17333.0 | 14193.9 | 10585.9 | 10289.2 | 9868.0 |
| 67.5° | 18413.6 | 18245.1 | 18003.4 | 19025.3 | 20644.3 | 20644.3 | 18721.3 | 14113.3 | 9732.4 | 8259.9 | 6454.1 |
| 70° | 19270.7 | 19387.9 | 19772.6 | 21376.9 | 23094.8 | 22919.0 | 20091.2 | 13186.6 | 7245.3 | 4435.8 | 2538.4 |
| 72° | 18699.3 | 18578.4 | 19571.1 | 22146.1 | 24604.0 | 24314.6 | 19860.5 | 10483.3 | 4186.7 | 1945.0 | 882.8 |
| 72.5° | 17717.6 | 17831.2 | 19197.5 | 22039.9 | 24321.9 | 24560.0 | 19296.4 | 9670.2 | 3443.2 | 1549.4 | 666.7 |
| 75° | 10864.3 | 11058.4 | 14329.4 | 18714.0 | 21193.8 | 20926.4 | 14926.5 | 4608.0 | 1322.3 | 659.3 | 238.1 |
| 77.5° | 3967.0 | 4128.1 | 6952.3 | 11776.4 | 15073.0 | 14904.5 | 8637.2 | 1637.3 | 717.9 | 490.8 | 120.9 |
| 80° | 1032.9 | 1117.2 | 2362.6 | 5432.1 | 8864.3 | 8875.3 | 3615.3 | 655.7 | 487.2 | 402.9 | 73.3 |
| 82.5° | 205.1 | 227.1 | 725.3 | 2113.5 | 4142.8 | 4087.8 | 1142.8 | 351.6 | 366.3 | 329.7 | 51.3 |
| 85° | 25.6 | 33.0 | 153.8 | 717.9 | 1340.6 | 1201.4 | 282.0 | 175.8 | 271.1 | 256.4 | 33.0 |
| 87.5° | 3.7 | 3.7 | 36.6 | 164.8 | 282.0 | 274.7 | 58.6 | 54.9 | 120.9 | 157.5 | 18.3 |
| 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-L-SA8A-760-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 | 3706.9 |
| 2.5° | 3747.2 | 3761.8 | 3813.1 | 3857.1 | 3908.4 | 3923.0 | 3901.0 | 3937.7 | 3886.4 | 3915.7 | 3923.0 |
| 5° | 3754.5 | 3838.8 | 3934.0 | 3996.3 | 3981.6 | 3945.0 | 3915.7 | 3816.8 | 3747.2 | 3721.5 | 3776.5 |
| 7.5° | 3805.8 | 3901.0 | 4003.6 | 4003.6 | 3923.0 | 3732.5 | 3549.4 | 3373.6 | 3227.1 | 3153.8 | 3216.1 |
| 10° | 3871.7 | 3970.6 | 4076.9 | 3937.7 | 3637.3 | 3289.3 | 3029.3 | 2699.6 | 2476.1 | 2358.9 | 2369.9 |
| 12.5° | 3959.6 | 4098.8 | 4135.5 | 3813.1 | 3315.0 | 2798.5 | 2326.0 | 1868.1 | 1655.6 | 1487.2 | 1490.8 |
| 15° | 4073.2 | 4208.7 | 4098.8 | 3542.1 | 2904.7 | 2142.8 | 1575.1 | 1139.2 | 970.7 | 882.8 | 882.8 |
| 17.5° | 4223.4 | 4325.9 | 4087.8 | 3293.0 | 2351.6 | 1465.2 | 967.0 | 769.2 | 732.6 | 717.9 | 717.9 |
| 20° | 4399.2 | 4476.1 | 3981.6 | 2904.7 | 1747.2 | 941.4 | 710.6 | 688.6 | 692.3 | 685.0 | 685.0 |
| 22.5° | 4597.0 | 4622.6 | 3860.7 | 2454.2 | 1183.1 | 696.0 | 663.0 | 666.7 | 670.3 | 663.0 | 666.7 |
| 25° | 4805.8 | 4736.2 | 3684.9 | 1926.7 | 787.5 | 633.7 | 641.0 | 648.3 | 652.0 | 655.7 | 655.7 |
| 27.5° | 5040.2 | 4901.0 | 3439.5 | 1410.2 | 615.4 | 597.1 | 619.0 | 641.0 | 644.7 | 644.7 | 641.0 |
| 30° | 5384.5 | 5153.8 | 3201.4 | 956.0 | 542.1 | 556.8 | 593.4 | 619.0 | 637.4 | 637.4 | 633.7 |
| 32.5° | 5820.4 | 5417.5 | 2868.1 | 652.0 | 501.8 | 509.1 | 538.5 | 589.7 | 630.0 | 633.7 | 622.7 |
| 35° | 6424.8 | 5736.2 | 2520.1 | 520.1 | 472.5 | 476.2 | 494.5 | 534.8 | 604.4 | 626.4 | 622.7 |
| 37.5° | 7062.2 | 6098.8 | 2087.9 | 468.9 | 450.5 | 446.9 | 457.9 | 490.8 | 553.1 | 608.0 | 611.7 |
| 40° | 7739.8 | 6479.7 | 1633.7 | 443.2 | 432.2 | 424.9 | 428.6 | 443.2 | 490.8 | 560.4 | 575.1 |
| 42.5° | 8377.1 | 6824.1 | 1227.1 | 417.6 | 413.9 | 406.6 | 406.6 | 410.2 | 435.9 | 483.5 | 490.8 |
| 45° | 9065.8 | 7106.1 | 934.0 | 399.3 | 388.3 | 391.9 | 377.3 | 370.0 | 388.3 | 391.9 | 388.3 |
| 47.5° | 9710.5 | 7388.2 | 747.2 | 377.3 | 366.3 | 366.3 | 348.0 | 333.3 | 333.3 | 300.4 | 296.7 |
| 50° | 10314.8 | 7542.0 | 597.1 | 348.0 | 344.3 | 340.7 | 315.0 | 289.4 | 267.4 | 227.1 | 219.8 |
| 52.5° | 10816.7 | 7534.7 | 461.5 | 311.3 | 322.3 | 311.3 | 271.1 | 234.4 | 201.5 | 164.8 | 157.5 |
| 55° | 10966.8 | 7183.0 | 348.0 | 256.4 | 274.7 | 260.1 | 216.1 | 183.1 | 146.5 | 117.2 | 113.6 |
| 57.5° | 10838.6 | 6648.2 | 263.7 | 197.8 | 212.5 | 197.8 | 164.8 | 135.5 | 102.6 | 80.6 | 73.3 |
| 60° | 10410.1 | 6021.9 | 205.1 | 153.8 | 161.2 | 150.2 | 124.5 | 102.6 | 73.3 | 51.3 | 44.0 |
| 62.5° | 9596.9 | 5238.0 | 157.5 | 120.9 | 117.2 | 117.2 | 95.2 | 76.9 | 51.3 | 29.3 | 25.6 |
| 65° | 7875.3 | 4084.2 | 120.9 | 84.2 | 84.2 | 84.2 | 73.3 | 54.9 | 33.0 | 14.7 | 7.3 |
| 67.5° | 4945.0 | 2377.2 | 98.9 | 65.9 | 62.3 | 62.3 | 51.3 | 36.6 | 18.3 | 3.7 | 0.0 |
| 70° | 1860.8 | 871.8 | 76.9 | 51.3 | 47.6 | 47.6 | 36.6 | 22.0 | 11.0 | 0.0 | 0.0 |
| 72° | 641.0 | 333.3 | 62.3 | 36.6 | 36.6 | 33.0 | 25.6 | 18.3 | 7.3 | 0.0 | 0.0 |
| 72.5° | 527.5 | 267.4 | 58.6 | 36.6 | 33.0 | 33.0 | 25.6 | 18.3 | 7.3 | 0.0 | 0.0 |
| 75° | 190.5 | 109.9 | 40.3 | 25.6 | 22.0 | 22.0 | 18.3 | 11.0 | 3.7 | 0.0 | 0.0 |
| 77.5° | 95.2 | 69.6 | 33.0 | 22.0 | 18.3 | 11.0 | 11.0 | 7.3 | 3.7 | 0.0 | 0.0 |
| 80° | 58.6 | 44.0 | 18.3 | 14.7 | 11.0 | 7.3 | 3.7 | 3.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 40.3 | 25.6 | 11.0 | 11.0 | 7.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 25.6 | 11.0 | 7.3 | 7.3 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.0 | 7.3 | 3.7 | 0.0 | 0.0 | 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)