

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: P484472

Luminaire Tested: **IFLD-S-SA2D-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484472
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-760-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

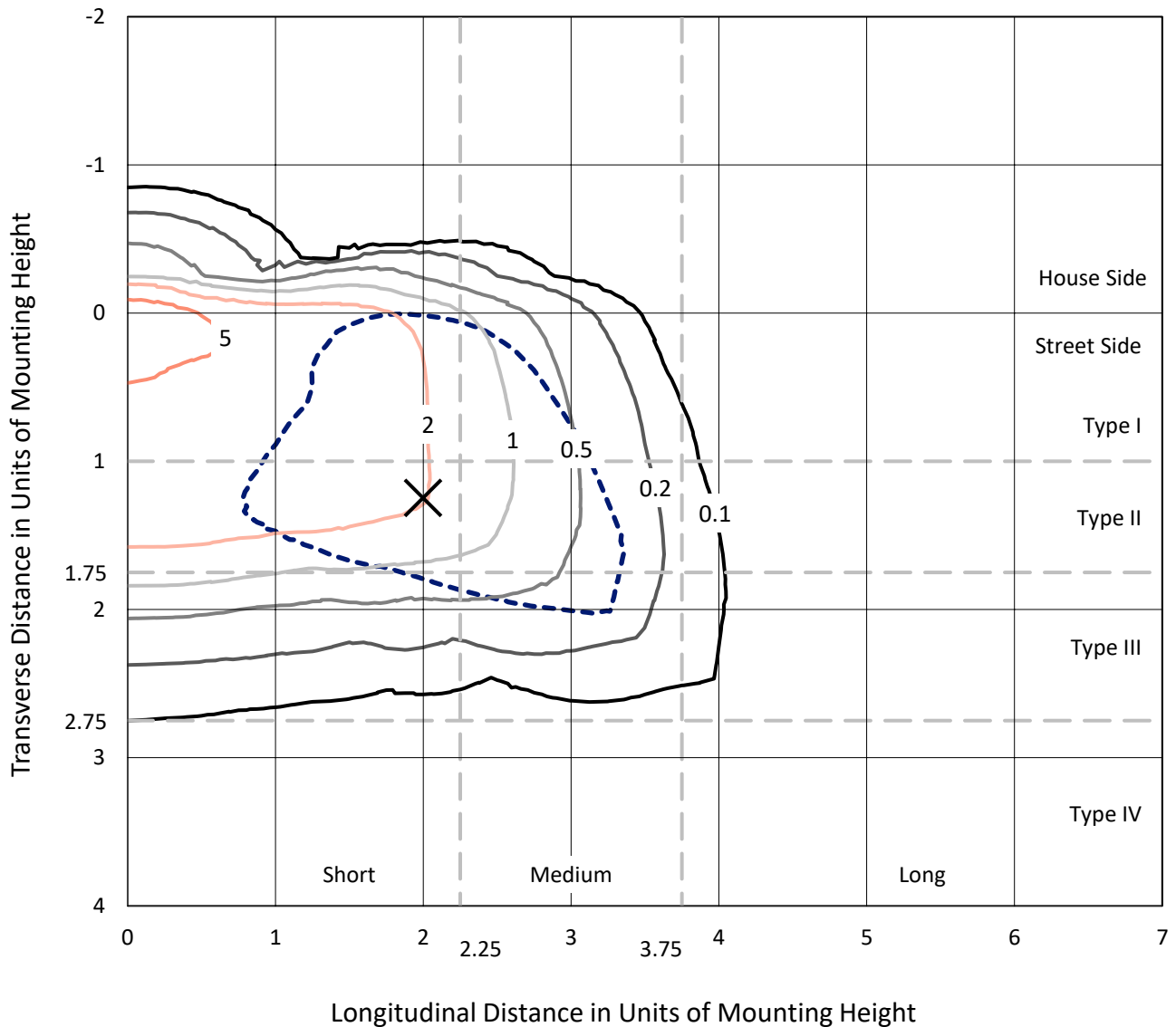
Lumens per Lamp: N/A
Luminaire Lumens: 13378.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

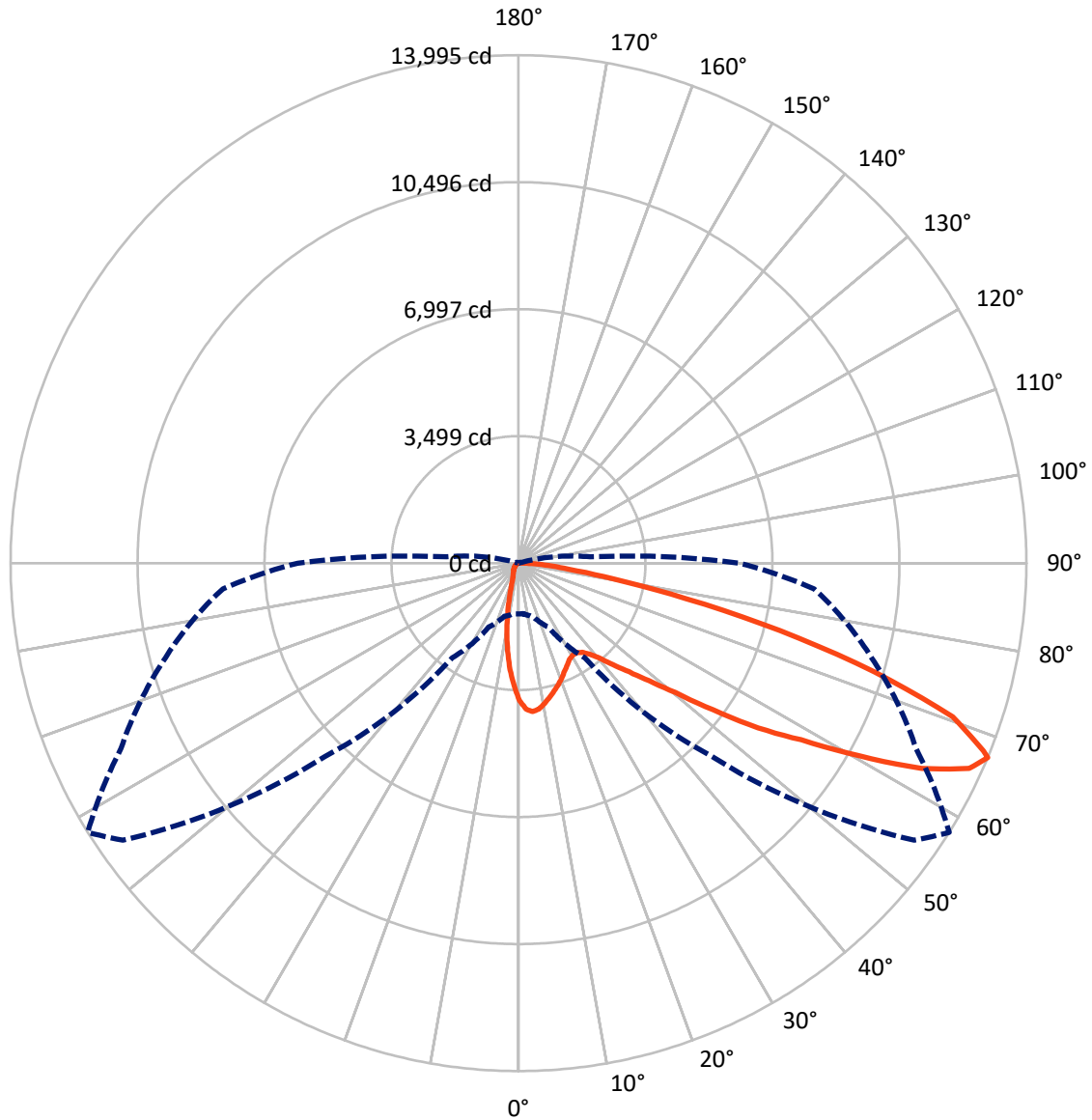
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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 | 1105.8 | 0.0 | 1105.8 |
| | % Fixture | 8.3 | 0.0 | 8.3 |
| Street Side | Lumens | 12272.9 | 0.0 | 12272.9 |
| | % Fixture | 91.7 | 0.0 | 91.7 |
| Total | Lumens | 13378.8 | 0.0 | 13378.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 300.8 | 2.2 |
| 10°-20° | 623.8 | 4.7 |
| 20°-30° | 827.7 | 6.2 |
| 30°-40° | 1146.9 | 8.6 |
| 40°-50° | 1871.4 | 14.0 |
| 50°-60° | 3289.3 | 24.6 |
| 60°-70° | 3643.1 | 27.2 |
| 70°-80° | 1509.7 | 11.3 |
| 80°-90° | 166.2 | 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° | 13378.8 | 100.0 |
| 0°-180° | 13378.8 | 100.0 |

Coefficient of Utilization



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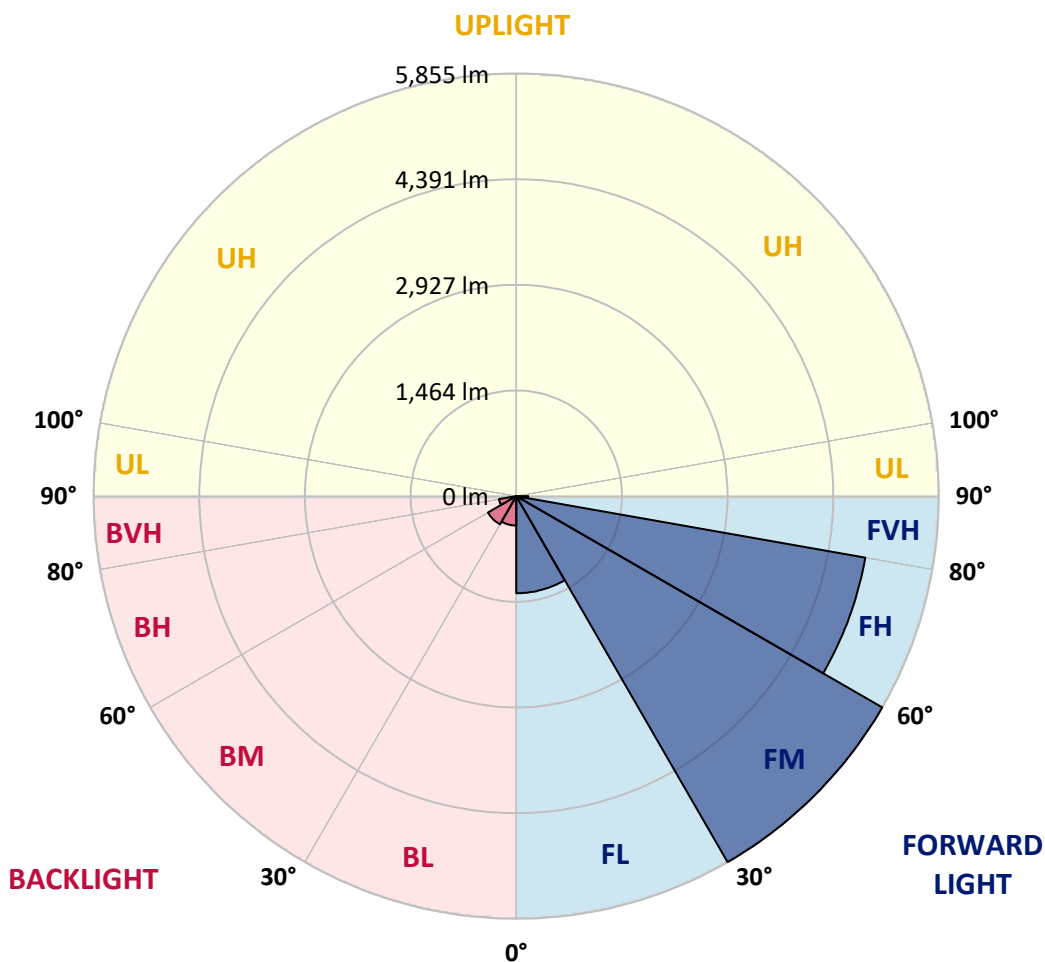
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1344.9 | 10.1 | | | |
| FM (30°-60°) | 5854.8 | 43.8 | | | |
| FH (60°-80°) | 4909.7 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 163.5 | 1.2 | | | G2/225 |
| BL (0°-30°) | 407.3 | 3.0 | B1/500 | | |
| BM (30°-60°) | 452.7 | 3.4 | B1/1000 | | |
| BH (60°-80°) | 243.1 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0° | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 |
| 2.5° | 4124.3 | 4138.5 | 4151.0 | 4127.9 | 4147.4 | 4119.0 | 4046.2 | 4030.2 | 4017.7 | 3909.4 | 3847.2 |
| 5° | 4122.5 | 4106.6 | 4119.0 | 4129.6 | 4103.0 | 4124.3 | 4106.6 | 4108.3 | 4060.4 | 3962.7 | 3788.6 |
| 7.5° | 3847.2 | 3840.1 | 3847.2 | 3898.7 | 3957.4 | 4003.5 | 4030.2 | 4056.8 | 4024.8 | 3879.2 | 3710.5 |
| 10° | 3476.0 | 3511.5 | 3531.1 | 3623.4 | 3714.0 | 3799.3 | 3882.8 | 3932.5 | 3923.6 | 3865.0 | 3625.2 |
| 12.5° | 3216.7 | 3206.0 | 3277.1 | 3337.5 | 3428.0 | 3600.3 | 3746.0 | 3792.2 | 3845.5 | 3763.7 | 3513.3 |
| 15° | 2976.9 | 2948.5 | 2991.1 | 3095.9 | 3250.4 | 3387.2 | 3591.5 | 3660.7 | 3728.2 | 3749.5 | 3452.9 |
| 17.5° | 2747.8 | 2762.0 | 2806.4 | 2900.5 | 3046.2 | 3238.0 | 3429.8 | 3529.3 | 3690.9 | 3662.5 | 3362.3 |
| 20° | 2637.6 | 2667.8 | 2683.8 | 2731.8 | 2833.0 | 3024.9 | 3310.8 | 3390.7 | 3563.0 | 3660.7 | 3273.5 |
| 22.5° | 2643.0 | 2643.0 | 2605.7 | 2634.1 | 2726.5 | 2875.7 | 3149.2 | 3238.0 | 3511.5 | 3568.4 | 3193.6 |
| 25° | 2699.8 | 2664.3 | 2666.1 | 2632.3 | 2671.4 | 2753.1 | 3003.5 | 3111.9 | 3406.7 | 3577.2 | 3151.0 |
| 27.5° | 2742.4 | 2735.3 | 2724.7 | 2715.8 | 2666.1 | 2678.5 | 2907.6 | 2996.4 | 3365.9 | 3566.6 | 3085.2 |
| 30° | 2897.0 | 2865.0 | 2854.3 | 2834.8 | 2769.1 | 2708.7 | 2831.2 | 2943.1 | 3333.9 | 3591.5 | 3047.9 |
| 32.5° | 3026.6 | 3032.0 | 3040.8 | 2984.0 | 2927.2 | 2778.0 | 2852.6 | 2941.4 | 3310.8 | 3648.3 | 3085.2 |
| 35° | 3190.0 | 3213.1 | 3216.7 | 3198.9 | 3138.5 | 2991.1 | 2941.4 | 3017.7 | 3349.9 | 3749.5 | 3088.8 |
| 37.5° | 3438.7 | 3413.8 | 3481.3 | 3488.4 | 3445.8 | 3250.4 | 3147.4 | 3177.6 | 3465.3 | 3911.2 | 3223.8 |
| 40° | 3600.3 | 3630.5 | 3756.6 | 3834.8 | 3762.0 | 3584.4 | 3445.8 | 3440.5 | 3632.3 | 4165.2 | 3390.7 |
| 42.5° | 3779.7 | 3847.2 | 3985.8 | 4154.5 | 4145.6 | 3980.4 | 3840.1 | 3817.0 | 3928.9 | 4532.8 | 3655.4 |
| 45° | 4024.8 | 4085.2 | 4278.8 | 4532.8 | 4671.4 | 4531.1 | 4319.7 | 4273.5 | 4289.5 | 5033.7 | 4106.6 |
| 47.5° | 4431.6 | 4415.6 | 4694.5 | 4944.9 | 5172.3 | 5063.9 | 4973.3 | 4838.3 | 4825.9 | 5623.4 | 4730.0 |
| 50° | 4891.6 | 4888.1 | 5136.7 | 5420.9 | 5683.8 | 5895.2 | 5744.2 | 5596.8 | 5600.3 | 6424.5 | 5463.6 |
| 52.5° | 5328.6 | 5397.8 | 5666.0 | 5948.5 | 6399.6 | 6627.0 | 6772.6 | 6714.0 | 6431.6 | 7140.3 | 6248.6 |
| 55° | 5559.5 | 5619.9 | 5886.3 | 6373.0 | 7085.2 | 7669.6 | 8063.9 | 8014.2 | 7468.9 | 7946.7 | 7023.1 |
| 57.5° | 5341.0 | 5381.9 | 5742.4 | 6380.1 | 7564.8 | 8868.5 | 9246.8 | 9184.7 | 8541.7 | 8563.0 | 7959.1 |
| 60° | 4426.3 | 4490.2 | 5026.6 | 5774.4 | 7378.3 | 9792.1 | 10875.6 | 10781.5 | 9518.6 | 9342.8 | 8561.2 |
| 62.5° | 3065.7 | 3108.3 | 3548.8 | 4479.6 | 6493.8 | 10113.6 | 12413.8 | 12465.3 | 10548.8 | 9950.2 | 8740.6 |
| 65° | 1985.8 | 1982.2 | 2234.4 | 2865.0 | 4602.1 | 9140.3 | 13323.2 | 13642.9 | 11543.5 | 10042.6 | 8685.6 |
| 67° | 1403.2 | 1397.9 | 1516.9 | 1943.2 | 3186.5 | 7531.0 | 13307.2 | 13994.6 | 12083.4 | 10069.2 | 8175.8 |
| 67.5° | 1294.8 | 1289.5 | 1403.2 | 1786.8 | 2875.7 | 7003.5 | 13108.3 | 13813.4 | 12273.5 | 10031.9 | 7952.0 |
| 70° | 1005.3 | 991.1 | 1033.7 | 1230.9 | 1674.9 | 4529.3 | 11218.4 | 12689.1 | 11879.2 | 9101.2 | 6349.9 |
| 72.5° | 726.5 | 742.4 | 809.9 | 1010.7 | 1314.4 | 2436.9 | 8550.6 | 10261.0 | 9921.8 | 6859.6 | 4035.5 |
| 75° | 506.2 | 520.4 | 628.8 | 824.2 | 1206.0 | 1477.8 | 5781.5 | 7442.2 | 6911.2 | 3786.8 | 1719.4 |
| 77.5° | 264.7 | 282.4 | 401.4 | 659.0 | 1095.9 | 1143.9 | 3454.7 | 4719.3 | 3662.5 | 1348.1 | 474.2 |
| 80° | 122.6 | 131.4 | 200.7 | 467.1 | 916.5 | 1005.3 | 2014.2 | 2625.2 | 1465.4 | 302.0 | 163.4 |
| 82.5° | 53.3 | 58.6 | 92.4 | 268.2 | 650.1 | 879.2 | 1246.9 | 1376.5 | 531.1 | 97.7 | 101.2 |
| 85° | 10.7 | 12.4 | 35.5 | 142.1 | 314.4 | 532.9 | 875.7 | 817.0 | 266.4 | 48.0 | 79.9 |
| 87.5° | 0.0 | 0.0 | 8.9 | 40.9 | 85.3 | 158.1 | 371.2 | 371.2 | 81.7 | 24.9 | 30.2 |
| 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-SA2D-760-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 | 3790.4 |
| 2.5° | 3792.2 | 3728.2 | 3587.9 | 3458.2 | 3365.9 | 3261.1 | 3122.5 | 3060.4 | 3037.3 | 3005.3 | 2957.4 |
| 5° | 3692.7 | 3614.5 | 3374.8 | 3133.2 | 2868.5 | 2667.8 | 2454.7 | 2330.4 | 2236.2 | 2177.6 | 2158.1 |
| 7.5° | 3552.4 | 3392.5 | 3069.3 | 2682.0 | 2339.2 | 2040.8 | 1717.6 | 1499.1 | 1358.8 | 1301.9 | 1248.7 |
| 10° | 3440.5 | 3232.7 | 2740.7 | 2259.3 | 1802.8 | 1365.9 | 1001.8 | 809.9 | 664.3 | 609.2 | 602.1 |
| 12.5° | 3294.8 | 3046.2 | 2433.4 | 1827.7 | 1254.0 | 813.5 | 554.2 | 481.3 | 440.5 | 433.4 | 428.1 |
| 15° | 3174.1 | 2877.4 | 2142.1 | 1415.6 | 811.7 | 508.0 | 431.6 | 413.9 | 403.2 | 399.6 | 401.4 |
| 17.5° | 3092.3 | 2696.3 | 1843.7 | 1030.2 | 534.6 | 415.6 | 397.9 | 387.2 | 381.9 | 380.1 | 374.8 |
| 20° | 2930.7 | 2543.5 | 1548.8 | 721.1 | 417.4 | 383.7 | 369.4 | 360.6 | 355.2 | 353.5 | 351.7 |
| 22.5° | 2838.4 | 2349.9 | 1254.0 | 502.7 | 371.2 | 348.1 | 337.5 | 330.4 | 321.5 | 316.2 | 314.4 |
| 25° | 2746.0 | 2207.8 | 991.1 | 390.8 | 337.5 | 321.5 | 305.5 | 296.6 | 282.4 | 275.3 | 273.5 |
| 27.5° | 2637.6 | 2067.5 | 763.8 | 339.3 | 303.7 | 287.7 | 271.8 | 257.5 | 239.8 | 232.7 | 229.1 |
| 30° | 2575.5 | 1930.7 | 575.5 | 303.7 | 278.9 | 257.5 | 238.0 | 220.2 | 200.7 | 188.3 | 184.7 |
| 32.5° | 2543.5 | 1806.4 | 431.6 | 277.1 | 252.2 | 229.1 | 204.3 | 182.9 | 165.2 | 154.5 | 152.8 |
| 35° | 2504.4 | 1685.6 | 339.3 | 252.2 | 227.4 | 202.5 | 177.6 | 156.3 | 138.5 | 129.7 | 126.1 |
| 37.5° | 2545.3 | 1614.6 | 282.4 | 232.7 | 207.8 | 179.4 | 152.8 | 131.4 | 117.2 | 108.3 | 106.6 |
| 40° | 2657.2 | 1555.9 | 245.1 | 214.9 | 188.3 | 158.1 | 133.2 | 111.9 | 99.5 | 92.4 | 88.8 |
| 42.5° | 2829.5 | 1555.9 | 222.0 | 197.2 | 170.5 | 138.5 | 113.7 | 97.7 | 85.3 | 78.2 | 76.4 |
| 45° | 3142.1 | 1603.9 | 202.5 | 179.4 | 149.2 | 119.0 | 97.7 | 81.7 | 69.3 | 62.2 | 60.4 |
| 47.5° | 3580.8 | 1714.0 | 186.5 | 163.4 | 133.2 | 104.8 | 85.3 | 69.3 | 56.8 | 49.7 | 48.0 |
| 50° | 4170.5 | 1964.5 | 170.5 | 143.9 | 119.0 | 90.6 | 71.0 | 55.1 | 44.4 | 37.3 | 35.5 |
| 52.5° | 4905.8 | 2319.7 | 154.5 | 133.2 | 101.2 | 76.4 | 56.8 | 44.4 | 33.7 | 28.4 | 26.6 |
| 55° | 5683.8 | 2754.9 | 135.0 | 119.0 | 87.0 | 63.9 | 46.2 | 33.7 | 24.9 | 21.3 | 19.5 |
| 57.5° | 6467.1 | 3090.6 | 119.0 | 103.0 | 71.0 | 51.5 | 37.3 | 26.6 | 17.8 | 14.2 | 12.4 |
| 60° | 6882.7 | 3122.5 | 103.0 | 85.3 | 56.8 | 40.9 | 28.4 | 19.5 | 12.4 | 8.9 | 7.1 |
| 62.5° | 6946.7 | 2838.4 | 88.8 | 69.3 | 46.2 | 32.0 | 19.5 | 14.2 | 7.1 | 3.6 | 3.6 |
| 65° | 6618.1 | 2365.9 | 76.4 | 55.1 | 35.5 | 23.1 | 14.2 | 8.9 | 3.6 | 1.8 | 0.0 |
| 67° | 6085.2 | 1982.2 | 65.7 | 46.2 | 28.4 | 17.8 | 10.7 | 5.3 | 1.8 | 0.0 | 0.0 |
| 67.5° | 5879.2 | 1875.7 | 62.2 | 42.6 | 26.6 | 16.0 | 8.9 | 5.3 | 1.8 | 0.0 | 0.0 |
| 70° | 4563.0 | 1339.2 | 46.2 | 30.2 | 19.5 | 12.4 | 7.1 | 3.6 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2795.7 | 783.3 | 35.5 | 21.3 | 14.2 | 8.9 | 5.3 | 1.8 | 0.0 | 0.0 | 0.0 |
| 75° | 1172.3 | 270.0 | 30.2 | 16.0 | 10.7 | 5.3 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 |
| 77.5° | 305.5 | 101.2 | 21.3 | 10.7 | 7.1 | 5.3 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 |
| 80° | 124.3 | 46.2 | 14.2 | 7.1 | 7.1 | 5.3 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 81.7 | 21.3 | 8.9 | 7.1 | 5.3 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 62.2 | 12.4 | 5.3 | 5.3 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 26.6 | 7.1 | 5.3 | 3.6 | 3.6 | 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)