

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: P484046

Luminaire Tested: **IFLD-S-SA3B-750-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

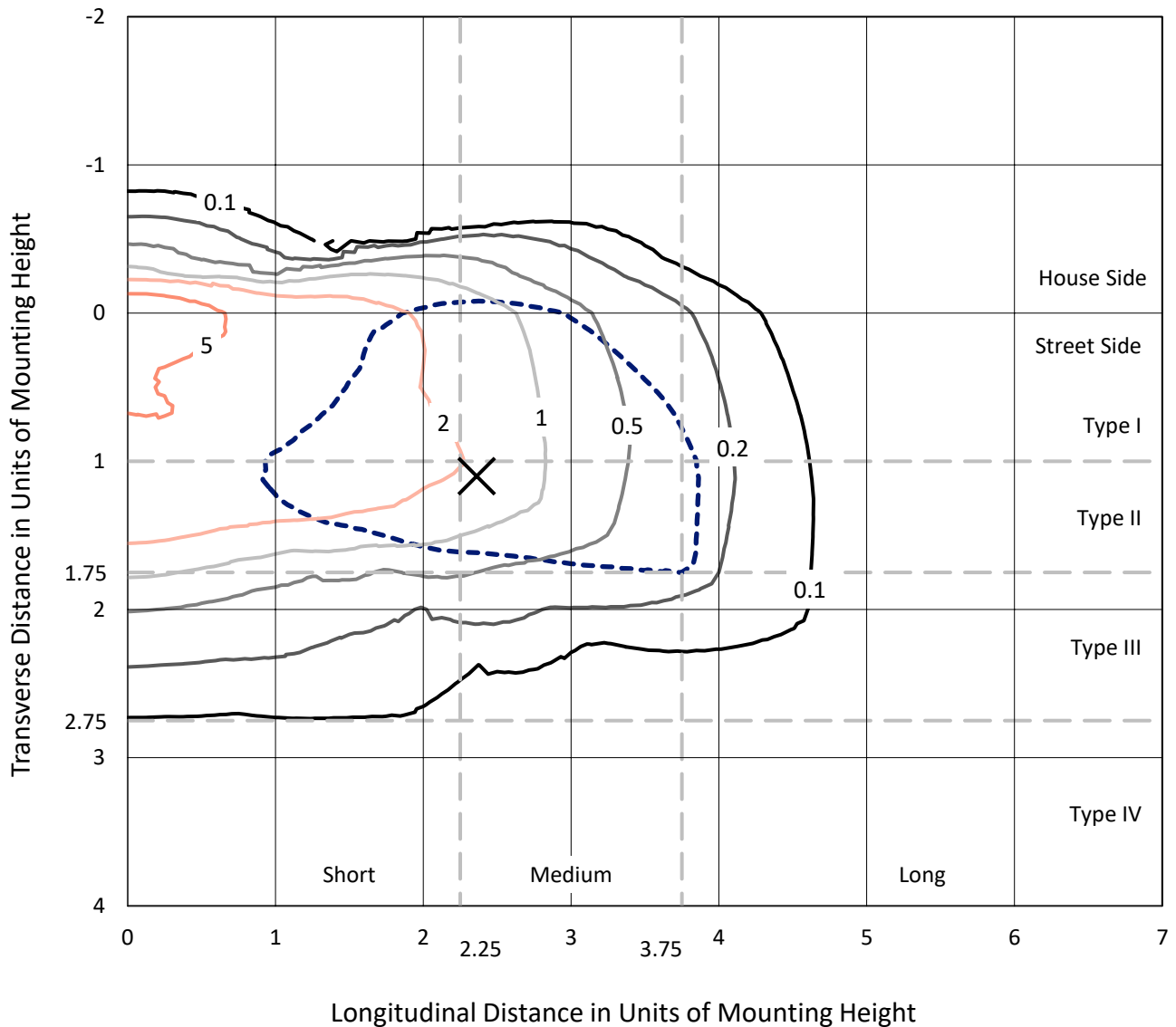
Lumens per Lamp: N/A
Luminaire Lumens: 14325.7 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

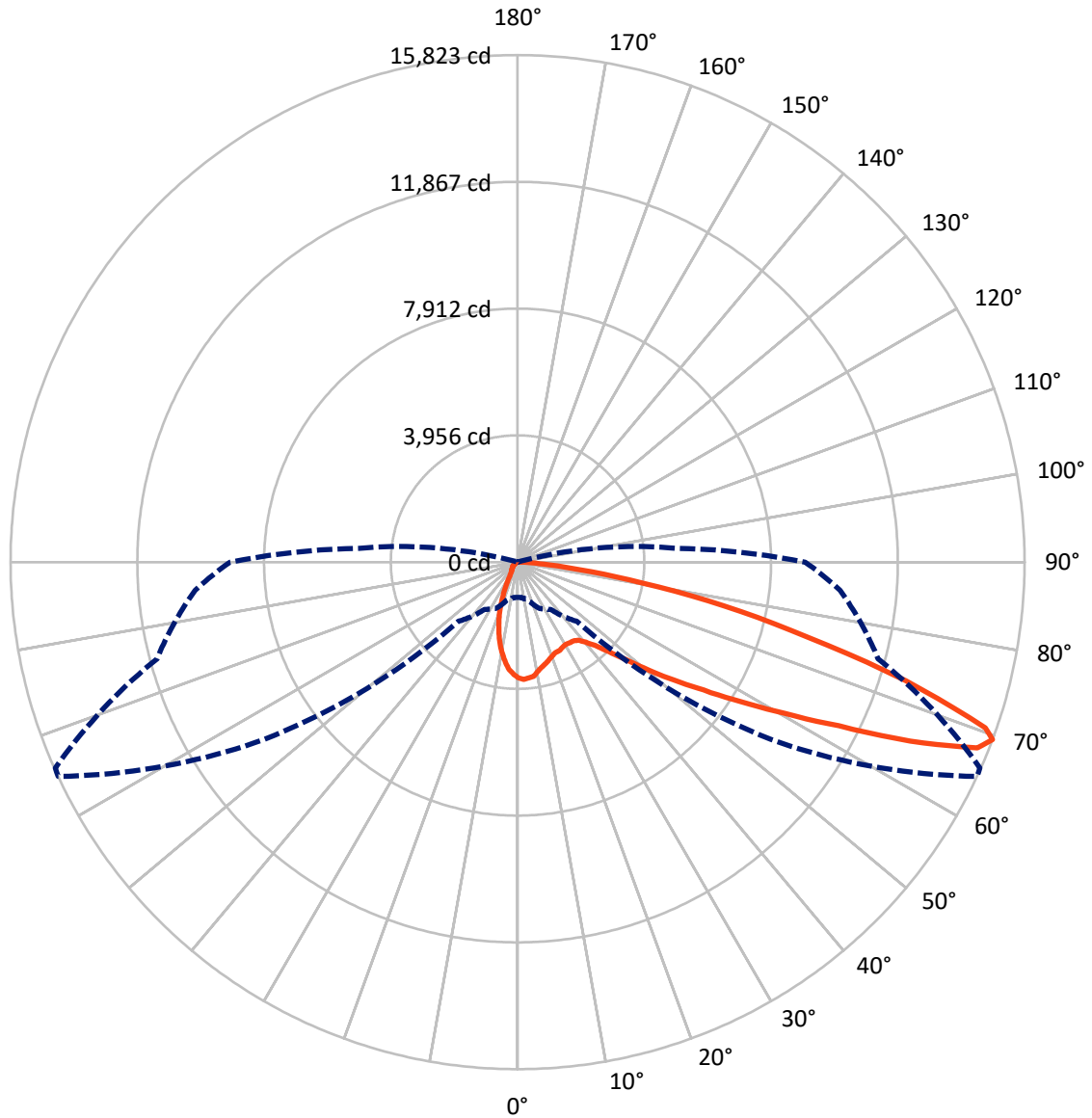
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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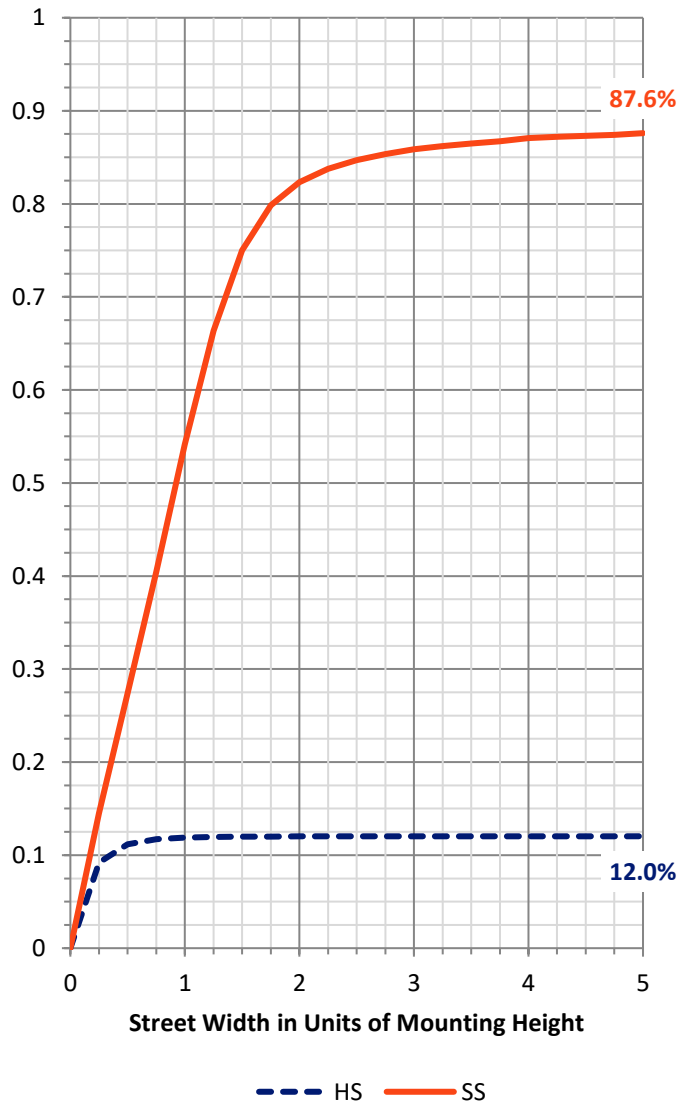
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1737.8 | 0.0 | 1737.8 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 12587.9 | 0.0 | 12587.9 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 14325.7 | 0.0 | 14325.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 295.6 | 2.1 |
| 10°-20° | 646.7 | 4.5 |
| 20°-30° | 900.3 | 6.3 |
| 30°-40° | 1275.9 | 8.9 |
| 40°-50° | 2010.7 | 14.0 |
| 50°-60° | 3262.7 | 22.8 |
| 60°-70° | 3643.8 | 25.4 |
| 70°-80° | 2051.9 | 14.3 |
| 80°-90° | 238.1 | 1.7 |
| 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° | 14325.7 | 100.0 |
| 0°-180° | 14325.7 | 100.0 |

Coefficient of Utilization



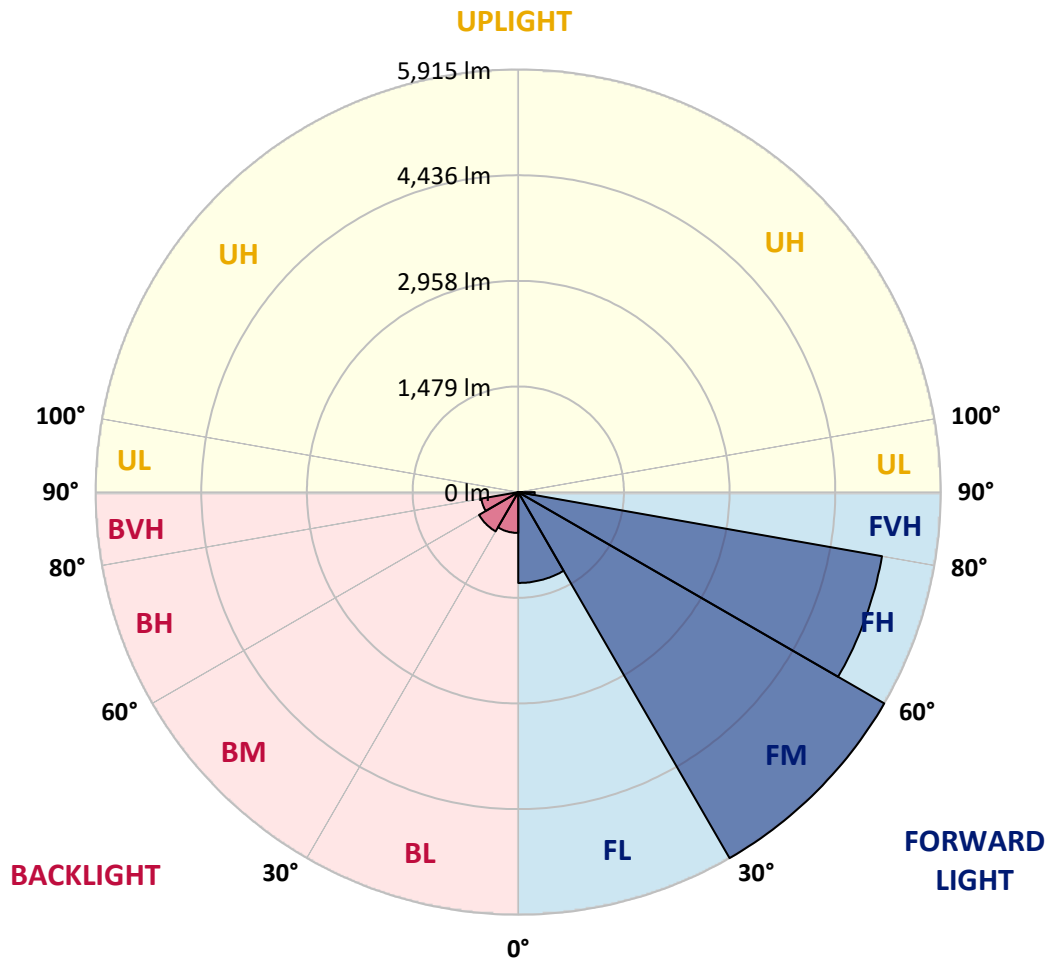
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1271.3 | 8.9 | | | |
| FM (30°-60°) | 5915.2 | 41.3 | | | |
| FH (60°-80°) | 5169.9 | 36.1 | | | G3/7500 |
| FVH (80°-90°) | 231.5 | 1.6 | | | G3/500 |
| BL (0°-30°) | 571.3 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 634.1 | 4.4 | B1/1000 | | |
| BH (60°-80°) | 525.8 | 3.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 6.6 | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 |
| 2.5° | 3478.5 | 3505.5 | 3513.3 | 3540.3 | 3553.9 | 3611.8 | 3644.7 | 3664.0 | 3654.3 | 3675.6 | 3677.5 |
| 5° | 3231.1 | 3215.7 | 3256.3 | 3285.2 | 3347.1 | 3447.6 | 3550.0 | 3629.2 | 3665.9 | 3700.7 | 3694.9 |
| 7.5° | 2966.4 | 2958.6 | 2999.2 | 3064.9 | 3121.0 | 3242.7 | 3407.0 | 3602.2 | 3594.4 | 3679.5 | 3704.6 |
| 10° | 2784.7 | 2792.5 | 2806.0 | 2871.7 | 2954.8 | 3078.5 | 3283.3 | 3465.0 | 3505.5 | 3685.3 | 3735.5 |
| 12.5° | 2618.5 | 2632.1 | 2657.2 | 2724.8 | 2821.4 | 2949.0 | 3148.0 | 3360.6 | 3422.4 | 3652.4 | 3752.9 |
| 15° | 2564.4 | 2533.5 | 2583.7 | 2634.0 | 2734.5 | 2848.5 | 3016.6 | 3281.4 | 3308.4 | 3613.8 | 3781.9 |
| 17.5° | 2520.0 | 2500.6 | 2523.8 | 2564.4 | 2670.7 | 2763.5 | 2921.9 | 3196.3 | 3246.6 | 3598.3 | 3778.0 |
| 20° | 2533.5 | 2516.1 | 2525.8 | 2556.7 | 2605.0 | 2692.0 | 2838.8 | 3115.2 | 3169.3 | 3526.8 | 3772.2 |
| 22.5° | 2572.1 | 2585.7 | 2568.3 | 2576.0 | 2591.5 | 2635.9 | 2794.4 | 3057.2 | 3103.6 | 3513.3 | 3805.1 |
| 25° | 2746.1 | 2722.9 | 2699.7 | 2690.0 | 2599.2 | 2618.5 | 2780.9 | 3053.3 | 3086.2 | 3465.0 | 3778.0 |
| 27.5° | 2927.7 | 2908.4 | 2898.7 | 2842.7 | 2719.0 | 2661.0 | 2782.8 | 2999.2 | 3043.7 | 3445.6 | 3745.2 |
| 30° | 3148.0 | 3173.2 | 3134.5 | 3066.9 | 2894.9 | 2751.9 | 2804.0 | 2972.2 | 3034.0 | 3372.2 | 3723.9 |
| 32.5° | 3379.9 | 3393.5 | 3412.8 | 3362.5 | 3140.3 | 2889.1 | 2867.8 | 2997.3 | 3001.2 | 3372.2 | 3675.6 |
| 35° | 3642.8 | 3623.4 | 3673.7 | 3677.5 | 3482.4 | 3132.6 | 2989.6 | 3014.7 | 3055.3 | 3356.7 | 3658.2 |
| 37.5° | 3868.9 | 3901.7 | 3959.7 | 4052.4 | 3851.5 | 3476.6 | 3179.0 | 3095.9 | 3113.2 | 3428.2 | 3671.7 |
| 40° | 4116.2 | 4149.1 | 4280.5 | 4373.2 | 4259.2 | 3863.1 | 3466.9 | 3285.2 | 3298.8 | 3534.5 | 3741.3 |
| 42.5° | 4388.7 | 4452.5 | 4609.0 | 4771.3 | 4740.4 | 4353.9 | 3837.9 | 3563.5 | 3557.7 | 3799.3 | 3884.3 |
| 45° | 4757.8 | 4842.8 | 5012.9 | 5200.3 | 5227.4 | 4916.3 | 4332.7 | 3979.0 | 3998.3 | 4145.2 | 4180.0 |
| 47.5° | 5271.8 | 5268.0 | 5434.2 | 5642.9 | 5799.4 | 5499.9 | 4924.0 | 4537.5 | 4535.6 | 4692.1 | 4618.7 |
| 50° | 5768.5 | 5770.4 | 5814.9 | 6056.4 | 6462.3 | 6309.6 | 5656.4 | 5279.6 | 5258.3 | 5335.6 | 5217.7 |
| 52.5° | 5998.5 | 5971.4 | 5938.6 | 6230.4 | 6972.4 | 7330.0 | 6584.0 | 6120.2 | 6102.8 | 6056.4 | 6025.5 |
| 55° | 5756.9 | 5766.6 | 5764.6 | 6068.0 | 7241.1 | 8406.4 | 7774.4 | 7045.9 | 7016.9 | 6871.9 | 6914.5 |
| 57.5° | 4982.0 | 4951.1 | 5018.7 | 5492.1 | 6933.8 | 9140.7 | 9477.0 | 8213.1 | 8137.7 | 7656.5 | 7559.9 |
| 60° | 3708.5 | 3718.1 | 3774.2 | 4332.7 | 6170.5 | 9295.3 | 11106.0 | 9583.2 | 9258.6 | 8209.2 | 8075.9 |
| 62.5° | 2589.5 | 2570.2 | 2591.5 | 2904.5 | 4411.9 | 8676.9 | 12207.6 | 11249.0 | 10936.0 | 8837.3 | 8760.0 |
| 65° | 1853.3 | 1828.1 | 1913.2 | 2104.5 | 2649.4 | 6634.3 | 12364.1 | 13467.6 | 13187.3 | 9840.3 | 9654.7 |
| 67.5° | 1333.4 | 1329.6 | 1428.1 | 1776.0 | 1882.2 | 3820.5 | 11204.6 | 15477.3 | 15307.3 | 11030.7 | 10199.7 |
| 69° | 1103.5 | 1105.4 | 1200.1 | 1590.4 | 1797.2 | 2608.9 | 9641.2 | 15823.3 | 15792.3 | 11645.2 | 10097.3 |
| 70° | 962.4 | 970.1 | 1080.3 | 1480.3 | 1762.4 | 2145.1 | 8311.7 | 15483.1 | 15452.2 | 11765.0 | 9759.1 |
| 72.5° | 593.3 | 599.1 | 744.0 | 1186.6 | 1675.5 | 1750.8 | 4970.4 | 12667.5 | 12773.8 | 11216.2 | 8408.3 |
| 75° | 284.1 | 286.0 | 390.4 | 858.0 | 1615.6 | 1660.0 | 2663.0 | 9347.5 | 9571.6 | 9055.7 | 6570.5 |
| 77.5° | 150.7 | 150.7 | 187.5 | 456.1 | 1308.3 | 1561.5 | 1580.8 | 6593.7 | 6779.2 | 5726.0 | 3735.5 |
| 80° | 75.4 | 77.3 | 114.0 | 237.7 | 811.6 | 1530.5 | 1234.9 | 3932.6 | 4033.1 | 2336.4 | 1163.4 |
| 82.5° | 29.0 | 30.9 | 54.1 | 143.0 | 421.3 | 1292.8 | 1084.1 | 1934.4 | 1909.3 | 546.9 | 284.1 |
| 85° | 3.9 | 3.9 | 19.3 | 85.0 | 179.7 | 570.1 | 894.7 | 807.8 | 780.7 | 119.8 | 137.2 |
| 87.5° | 0.0 | 0.0 | 3.9 | 25.1 | 54.1 | 166.2 | 345.9 | 222.2 | 247.4 | 32.9 | 67.6 |
| 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-SA3B-750-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 | 3611.8 |
| 2.5° | 3667.9 | 3627.3 | 3565.5 | 3505.5 | 3441.8 | 3364.5 | 3279.4 | 3248.5 | 3194.4 | 3190.5 | 3221.5 |
| 5° | 3664.0 | 3598.3 | 3490.1 | 3362.5 | 3180.9 | 3043.7 | 2894.9 | 2786.7 | 2703.6 | 2649.4 | 2663.0 |
| 7.5° | 3683.3 | 3604.1 | 3416.6 | 3142.2 | 2908.4 | 2635.9 | 2406.0 | 2247.5 | 2102.6 | 2031.1 | 2023.3 |
| 10° | 3652.4 | 3546.1 | 3271.7 | 2887.1 | 2543.2 | 2162.5 | 1826.2 | 1613.6 | 1397.2 | 1318.0 | 1321.8 |
| 12.5° | 3669.8 | 3521.0 | 3115.2 | 2624.3 | 2150.9 | 1656.1 | 1254.2 | 964.3 | 761.4 | 695.7 | 688.0 |
| 15° | 3681.4 | 3466.9 | 2964.4 | 2309.3 | 1716.1 | 1128.6 | 726.6 | 546.9 | 483.1 | 471.5 | 469.6 |
| 17.5° | 3637.0 | 3401.2 | 2751.9 | 1998.2 | 1271.6 | 686.0 | 483.1 | 446.4 | 434.8 | 427.1 | 423.2 |
| 20° | 3635.0 | 3362.5 | 2568.3 | 1679.3 | 848.4 | 467.7 | 417.4 | 403.9 | 386.5 | 380.7 | 380.7 |
| 22.5° | 3602.2 | 3281.4 | 2348.0 | 1329.6 | 541.1 | 402.0 | 374.9 | 353.6 | 334.3 | 326.6 | 324.7 |
| 25° | 3592.5 | 3186.7 | 2141.2 | 999.1 | 411.6 | 359.4 | 332.4 | 301.5 | 278.3 | 266.7 | 260.9 |
| 27.5° | 3565.5 | 3105.5 | 1932.5 | 703.4 | 359.4 | 320.8 | 286.0 | 253.2 | 226.1 | 208.7 | 206.8 |
| 30° | 3468.8 | 3020.5 | 1700.6 | 487.0 | 326.6 | 284.1 | 245.4 | 206.8 | 179.7 | 168.1 | 164.3 |
| 32.5° | 3428.2 | 2941.3 | 1447.4 | 374.9 | 297.6 | 251.2 | 206.8 | 172.0 | 150.7 | 139.1 | 137.2 |
| 35° | 3379.9 | 2825.3 | 1202.0 | 326.6 | 270.5 | 218.4 | 173.9 | 144.9 | 127.5 | 117.9 | 117.9 |
| 37.5° | 3385.7 | 2732.5 | 972.0 | 295.7 | 241.6 | 187.5 | 148.8 | 123.7 | 108.2 | 98.6 | 98.6 |
| 40° | 3368.3 | 2659.1 | 755.6 | 268.6 | 214.5 | 160.4 | 125.6 | 104.4 | 90.8 | 81.2 | 79.2 |
| 42.5° | 3447.6 | 2639.8 | 570.1 | 245.4 | 187.5 | 137.2 | 108.2 | 88.9 | 75.4 | 63.8 | 63.8 |
| 45° | 3580.9 | 2670.7 | 444.5 | 224.2 | 160.4 | 117.9 | 92.8 | 73.4 | 59.9 | 52.2 | 50.2 |
| 47.5° | 3936.5 | 2792.5 | 347.8 | 206.8 | 137.2 | 102.4 | 77.3 | 59.9 | 48.3 | 40.6 | 38.6 |
| 50° | 4452.5 | 3064.9 | 295.7 | 181.7 | 115.9 | 87.0 | 63.8 | 46.4 | 38.6 | 30.9 | 29.0 |
| 52.5° | 5186.8 | 3522.9 | 268.6 | 160.4 | 96.6 | 71.5 | 50.2 | 36.7 | 29.0 | 23.2 | 21.3 |
| 55° | 5986.9 | 4095.0 | 243.5 | 135.3 | 81.2 | 58.0 | 40.6 | 29.0 | 21.3 | 15.5 | 13.5 |
| 57.5° | 6611.1 | 4589.7 | 222.2 | 112.1 | 65.7 | 46.4 | 30.9 | 21.3 | 15.5 | 9.7 | 7.7 |
| 60° | 7293.2 | 4937.5 | 195.2 | 88.9 | 54.1 | 34.8 | 23.2 | 15.5 | 11.6 | 5.8 | 5.8 |
| 62.5° | 7996.7 | 5345.3 | 160.4 | 69.6 | 42.5 | 27.1 | 17.4 | 11.6 | 7.7 | 1.9 | 1.9 |
| 65° | 8974.5 | 5664.1 | 123.7 | 54.1 | 32.9 | 19.3 | 13.5 | 9.7 | 3.9 | 0.0 | 0.0 |
| 67.5° | 9250.9 | 5507.6 | 90.8 | 42.5 | 23.2 | 13.5 | 9.7 | 5.8 | 1.9 | 0.0 | 0.0 |
| 69° | 8974.5 | 4960.7 | 79.2 | 36.7 | 19.3 | 11.6 | 7.7 | 3.9 | 1.9 | 0.0 | 0.0 |
| 70° | 8470.1 | 4535.6 | 69.6 | 30.9 | 17.4 | 11.6 | 5.8 | 3.9 | 1.9 | 0.0 | 0.0 |
| 72.5° | 7084.5 | 3478.5 | 54.1 | 23.2 | 13.5 | 9.7 | 5.8 | 3.9 | 0.0 | 0.0 | 0.0 |
| 75° | 5196.5 | 2148.9 | 40.6 | 17.4 | 11.6 | 7.7 | 5.8 | 3.9 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2784.7 | 784.6 | 29.0 | 11.6 | 7.7 | 5.8 | 5.8 | 3.9 | 0.0 | 0.0 | 0.0 |
| 80° | 763.3 | 231.9 | 21.3 | 7.7 | 5.8 | 3.9 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 208.7 | 59.9 | 13.5 | 7.7 | 5.8 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 112.1 | 23.2 | 7.7 | 5.8 | 3.9 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 58.0 | 7.7 | 5.8 | 3.9 | 3.9 | 1.9 | 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)