

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: P483560

Luminaire Tested: **IFLD-M-SA4C-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483560
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

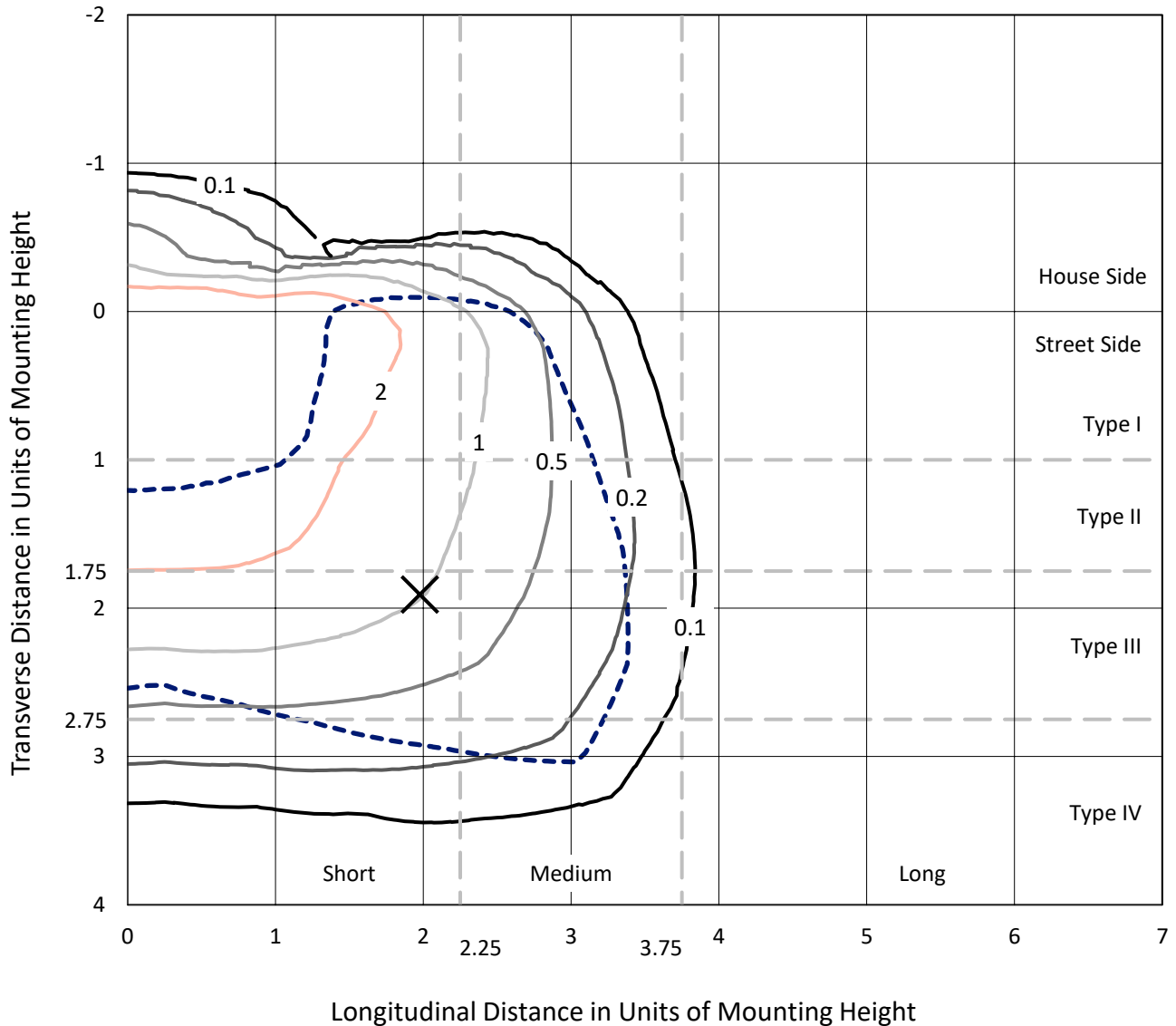
Lumens per Lamp: N/A
Luminaire Lumens: 19102.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 218.1
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

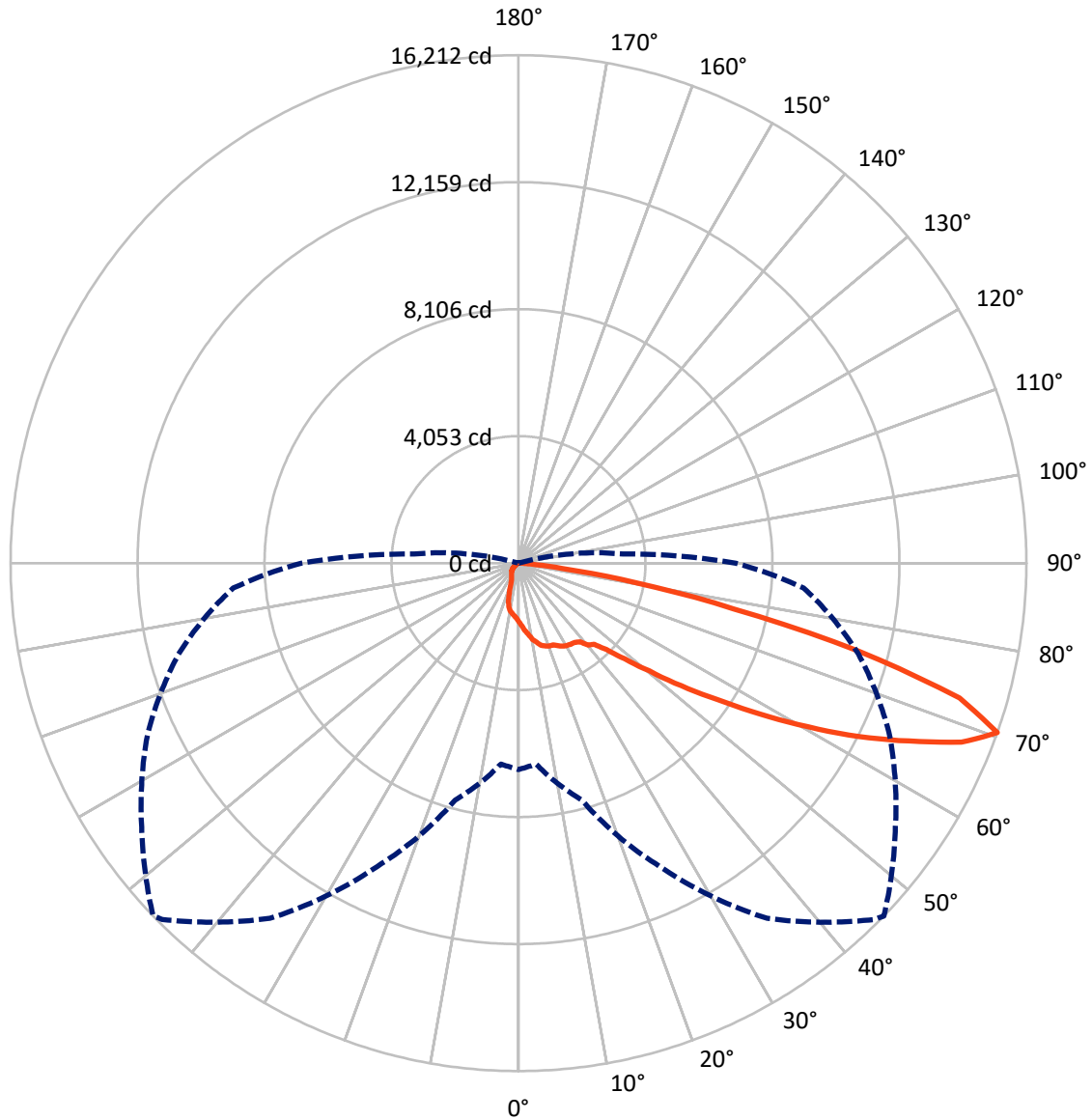
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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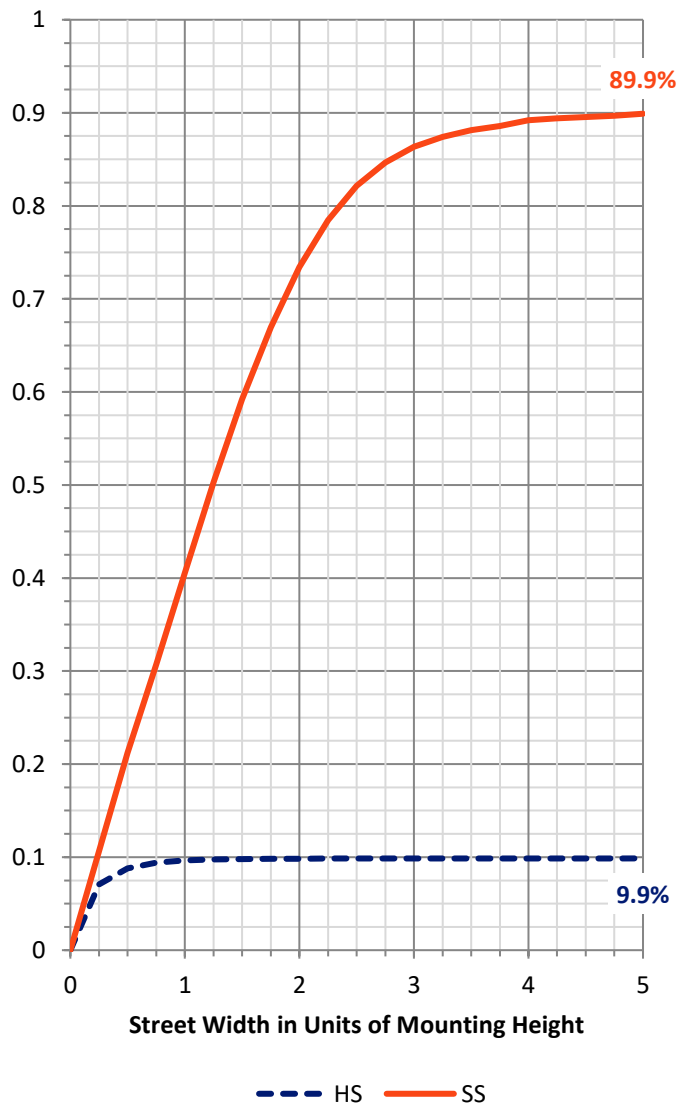
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1900.7 | 0.0 | 1900.7 |
| | % Fixture | 10.0 | 0.0 | 10.0 |
| Street Side | Lumens | 17201.7 | 0.0 | 17201.7 |
| | % Fixture | 90.0 | 0.0 | 90.0 |
| Total | Lumens | 19102.5 | 0.0 | 19102.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.0 | 1.0 |
| 10°-20° | 564.7 | 3.0 |
| 20°-30° | 904.5 | 4.7 |
| 30°-40° | 1291.0 | 6.8 |
| 40°-50° | 2229.3 | 11.7 |
| 50°-60° | 4268.2 | 22.3 |
| 60°-70° | 6320.5 | 33.1 |
| 70°-80° | 3130.5 | 16.4 |
| 80°-90° | 206.8 | 1.1 |
| 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° | 19102.5 | 100.0 |
| 0°-180° | 19102.5 | 100.0 |

Coefficient of Utilization



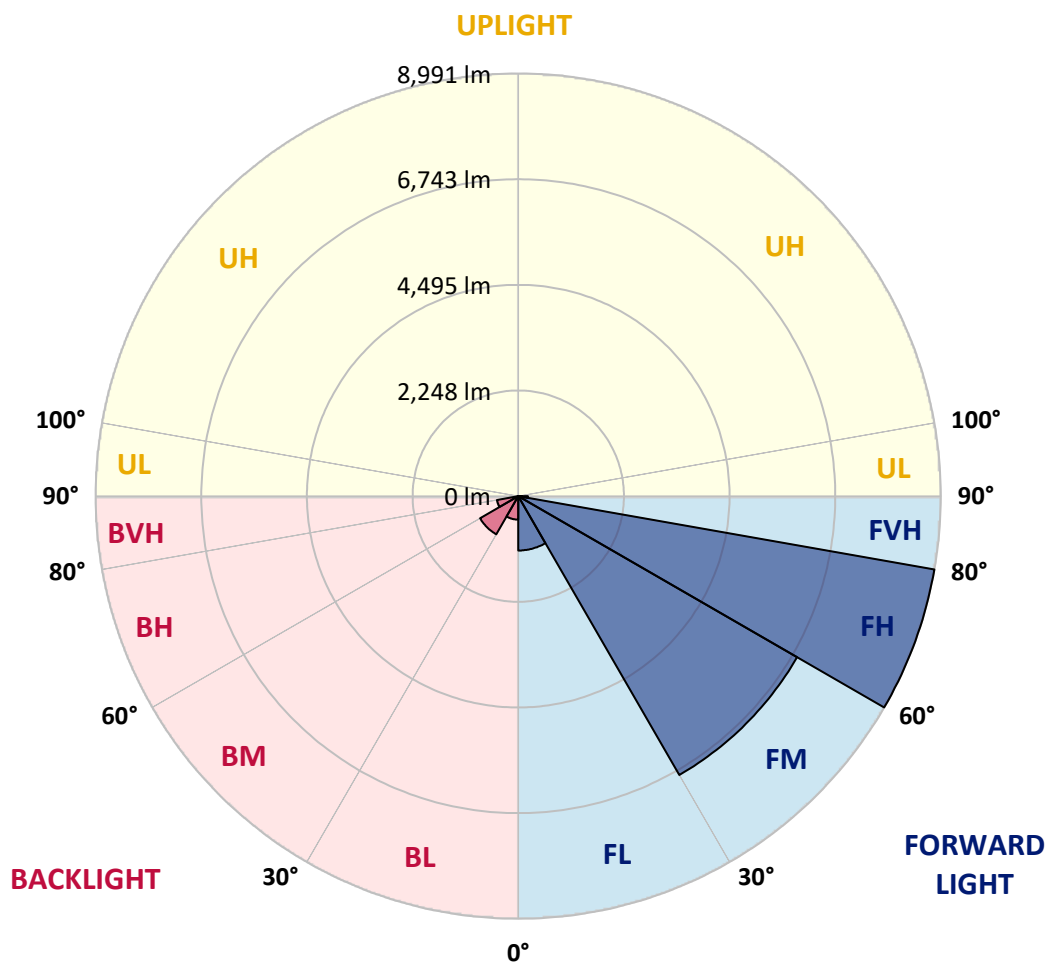
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1156.8 | 6.1 | | | |
| FM (30°-60°) | 6850.1 | 35.9 | | | |
| FH (60°-80°) | 8990.6 | 47.1 | | | G4/12000 |
| FVH (80°-90°) | 204.2 | 1.1 | | | G2/225 |
| BL (0°-30°) | 499.4 | 2.6 | B1/500 | | |
| BM (30°-60°) | 938.4 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 460.3 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4

Type IV Short





REPORT NUMBER: P483560

CATALOG NUMBER: IFLD-M-SA4C-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 |
| 2.5° | 2092.5 | 2078.7 | 2056.7 | 2048.5 | 2026.5 | 2015.5 | 1999.0 | 1990.8 | 1960.5 | 1930.3 | 1911.0 |
| 5° | 2348.2 | 2315.2 | 2326.2 | 2293.2 | 2221.7 | 2164.0 | 2161.2 | 2098.0 | 2029.3 | 1974.3 | 1900.0 |
| 7.5° | 2606.7 | 2579.2 | 2537.9 | 2491.2 | 2411.5 | 2326.2 | 2301.5 | 2241.0 | 2144.7 | 2048.5 | 1949.5 |
| 10° | 2801.9 | 2782.7 | 2746.9 | 2680.9 | 2570.9 | 2474.7 | 2477.4 | 2375.7 | 2274.0 | 2164.0 | 2029.3 |
| 12.5° | 2922.9 | 2931.1 | 2878.9 | 2812.9 | 2716.7 | 2595.7 | 2592.9 | 2524.2 | 2408.7 | 2293.2 | 2133.7 |
| 15° | 3043.9 | 3074.1 | 2994.4 | 2917.4 | 2793.7 | 2705.7 | 2722.2 | 2639.7 | 2526.9 | 2395.0 | 2219.0 |
| 17.5° | 3063.1 | 3071.4 | 3054.9 | 2942.1 | 2851.4 | 2777.2 | 2779.9 | 2724.9 | 2639.7 | 2496.7 | 2345.5 |
| 20° | 3030.1 | 3024.6 | 3005.4 | 2922.9 | 2862.4 | 2818.4 | 2821.2 | 2807.4 | 2760.7 | 2645.2 | 2438.9 |
| 22.5° | 2933.9 | 2933.9 | 2909.1 | 2854.1 | 2826.7 | 2867.9 | 2834.9 | 2887.1 | 2837.7 | 2768.9 | 2598.4 |
| 25° | 2856.9 | 2887.1 | 2873.4 | 2837.7 | 2848.6 | 2903.6 | 2920.1 | 2969.6 | 2961.4 | 2876.1 | 2708.4 |
| 27.5° | 2939.4 | 2903.6 | 2911.9 | 2870.6 | 2911.9 | 2994.4 | 3002.6 | 3038.4 | 3035.6 | 2966.9 | 2807.4 |
| 30° | 2994.4 | 3027.4 | 2964.1 | 2873.4 | 2917.4 | 3057.6 | 3052.1 | 3098.9 | 3120.9 | 3038.4 | 2900.9 |
| 32.5° | 3170.4 | 3142.9 | 3090.6 | 2969.6 | 2975.1 | 3054.9 | 3079.6 | 3140.1 | 3153.9 | 3104.4 | 2991.6 |
| 35° | 3530.6 | 3489.3 | 3261.1 | 3079.6 | 3052.1 | 3090.6 | 3107.1 | 3225.4 | 3250.1 | 3195.1 | 3087.9 |
| 37.5° | 4086.0 | 3992.5 | 3717.5 | 3316.1 | 3192.4 | 3184.1 | 3184.1 | 3340.8 | 3434.3 | 3307.8 | 3230.9 |
| 40° | 4880.6 | 4748.7 | 4451.7 | 3753.3 | 3376.6 | 3409.6 | 3442.6 | 3527.8 | 3516.8 | 3434.3 | 3417.8 |
| 42.5° | 5892.5 | 5790.8 | 5469.1 | 4487.4 | 3728.5 | 3563.6 | 3536.1 | 3651.6 | 3824.8 | 3791.8 | 3780.8 |
| 45° | 6736.7 | 6742.2 | 6535.9 | 5493.8 | 4336.2 | 3918.3 | 3937.5 | 4025.5 | 4317.0 | 4292.2 | 4289.5 |
| 47.5° | 7352.6 | 7275.6 | 7245.4 | 6464.5 | 5221.6 | 4591.9 | 4564.4 | 4624.9 | 5004.4 | 5161.1 | 5232.6 |
| 50° | 7913.5 | 7861.3 | 7789.8 | 7407.6 | 6285.7 | 5436.1 | 5408.6 | 5414.1 | 5994.3 | 6214.2 | 6390.2 |
| 52.5° | 8609.2 | 8675.2 | 8438.7 | 8205.0 | 7663.3 | 6533.2 | 6502.9 | 6395.7 | 7116.1 | 7418.6 | 7627.6 |
| 55° | 9467.1 | 9343.3 | 9076.6 | 9197.6 | 8980.4 | 7718.3 | 7663.3 | 7536.8 | 8394.7 | 8521.2 | 8741.2 |
| 57.5° | 9656.8 | 9563.3 | 9838.3 | 10267.2 | 10476.2 | 9109.6 | 9087.6 | 8859.4 | 9469.8 | 9354.3 | 9975.8 |
| 60° | 10129.8 | 10154.5 | 10536.7 | 11389.1 | 11752.1 | 10715.4 | 10608.2 | 10206.7 | 10512.0 | 10534.0 | 11196.6 |
| 62.5° | 10616.4 | 10558.7 | 11413.8 | 12233.2 | 12791.4 | 12236.0 | 12200.2 | 11402.8 | 11749.3 | 11468.8 | 12346.0 |
| 65° | 10259.0 | 10347.0 | 11570.6 | 12942.7 | 14138.8 | 13723.6 | 13693.3 | 12555.0 | 12744.7 | 12395.5 | 12813.4 |
| 67.5° | 8988.6 | 8809.9 | 10523.0 | 12618.2 | 14831.7 | 15282.6 | 15249.6 | 13811.5 | 13305.6 | 12390.0 | 11842.8 |
| 70° | 6588.2 | 6434.2 | 7831.0 | 10685.2 | 13839.0 | 16080.0 | 16212.0 | 14685.9 | 13077.4 | 11235.1 | 9137.1 |
| 72.5° | 3228.1 | 3230.9 | 4388.5 | 7245.4 | 10949.2 | 14655.7 | 14721.7 | 13465.1 | 11235.1 | 8282.0 | 5174.9 |
| 75° | 954.1 | 965.1 | 1625.0 | 3552.6 | 7077.6 | 11130.6 | 11204.9 | 10220.5 | 7787.0 | 4278.5 | 1765.3 |
| 77.5° | 349.2 | 349.2 | 538.9 | 1333.6 | 3530.6 | 7025.4 | 7019.9 | 6274.7 | 3943.0 | 1449.1 | 412.4 |
| 80° | 181.5 | 189.7 | 280.5 | 544.4 | 1528.8 | 3659.8 | 3797.3 | 3071.4 | 1498.6 | 610.4 | 121.0 |
| 82.5° | 74.2 | 82.5 | 154.0 | 280.5 | 734.2 | 1284.1 | 1405.1 | 1204.4 | 651.7 | 426.2 | 55.0 |
| 85° | 22.0 | 24.7 | 74.2 | 156.7 | 288.7 | 321.7 | 357.5 | 404.2 | 409.7 | 330.0 | 24.7 |
| 87.5° | 2.7 | 2.7 | 30.2 | 52.2 | 63.2 | 68.7 | 79.7 | 79.7 | 209.0 | 231.0 | 13.7 |
| 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-SA4C-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 | 1875.3 |
| 2.5° | 1889.0 | 1875.3 | 1853.3 | 1803.8 | 1792.8 | 1757.0 | 1754.3 | 1721.3 | 1732.3 | 1710.3 | 1702.0 |
| 5° | 1875.3 | 1845.0 | 1784.5 | 1746.0 | 1707.5 | 1682.8 | 1666.3 | 1652.5 | 1649.8 | 1638.8 | 1633.3 |
| 7.5° | 1900.0 | 1858.8 | 1765.3 | 1704.8 | 1638.8 | 1616.8 | 1581.1 | 1578.3 | 1559.1 | 1539.8 | 1539.8 |
| 10° | 1982.5 | 1908.3 | 1806.5 | 1704.8 | 1619.6 | 1548.1 | 1465.6 | 1405.1 | 1383.1 | 1333.6 | 1339.1 |
| 12.5° | 2048.5 | 1982.5 | 1834.0 | 1729.5 | 1600.3 | 1438.1 | 1256.6 | 1116.4 | 1050.4 | 987.1 | 1011.9 |
| 15° | 2142.0 | 2045.7 | 1886.3 | 1735.0 | 1526.1 | 1245.6 | 948.6 | 791.9 | 731.4 | 717.7 | 714.9 |
| 17.5° | 2243.7 | 2142.0 | 1952.3 | 1721.3 | 1374.8 | 962.4 | 698.4 | 607.7 | 618.7 | 635.2 | 632.4 |
| 20° | 2356.5 | 2232.7 | 2001.8 | 1674.5 | 1135.6 | 698.4 | 571.9 | 569.2 | 585.7 | 610.4 | 615.9 |
| 22.5° | 2474.7 | 2367.5 | 2062.2 | 1534.3 | 846.9 | 560.9 | 549.9 | 549.9 | 560.9 | 591.2 | 585.7 |
| 25° | 2606.7 | 2463.7 | 2092.5 | 1317.1 | 607.7 | 516.9 | 522.4 | 533.4 | 538.9 | 563.7 | 566.4 |
| 27.5° | 2708.4 | 2570.9 | 2100.7 | 1055.9 | 494.9 | 478.4 | 492.2 | 505.9 | 514.2 | 533.4 | 541.7 |
| 30° | 2801.9 | 2705.7 | 2056.7 | 786.4 | 453.7 | 445.4 | 450.9 | 470.2 | 486.7 | 503.2 | 503.2 |
| 32.5° | 2920.1 | 2782.7 | 1955.0 | 558.2 | 428.9 | 415.2 | 412.4 | 420.7 | 439.9 | 459.2 | 459.2 |
| 35° | 3041.1 | 2911.9 | 1792.8 | 448.2 | 406.9 | 387.7 | 376.7 | 368.5 | 376.7 | 390.5 | 401.5 |
| 37.5° | 3217.1 | 3107.1 | 1589.3 | 412.4 | 390.5 | 363.0 | 341.0 | 321.7 | 308.0 | 305.2 | 313.5 |
| 40° | 3467.3 | 3327.1 | 1328.1 | 387.7 | 371.2 | 338.2 | 305.2 | 272.2 | 242.0 | 222.7 | 225.5 |
| 42.5° | 3846.8 | 3651.6 | 1044.9 | 374.0 | 357.5 | 310.7 | 264.0 | 217.2 | 178.7 | 159.5 | 159.5 |
| 45° | 4388.5 | 4080.5 | 767.2 | 360.2 | 341.0 | 277.7 | 217.2 | 162.2 | 123.7 | 112.7 | 115.5 |
| 47.5° | 5205.1 | 4597.4 | 549.9 | 338.2 | 319.0 | 242.0 | 170.5 | 115.5 | 90.7 | 85.2 | 88.0 |
| 50° | 6272.0 | 5210.6 | 428.9 | 313.5 | 291.5 | 203.5 | 126.5 | 85.2 | 71.5 | 68.7 | 71.5 |
| 52.5° | 7391.1 | 5829.3 | 376.7 | 291.5 | 250.2 | 162.2 | 93.5 | 68.7 | 60.5 | 57.7 | 60.5 |
| 55° | 8348.0 | 6228.0 | 327.2 | 258.5 | 200.7 | 121.0 | 74.2 | 60.5 | 52.2 | 44.0 | 44.0 |
| 57.5° | 9315.9 | 6428.7 | 258.5 | 214.5 | 148.5 | 90.7 | 63.2 | 52.2 | 44.0 | 35.7 | 33.0 |
| 60° | 10102.3 | 6571.7 | 184.2 | 159.5 | 104.5 | 71.5 | 55.0 | 46.7 | 35.7 | 27.5 | 24.7 |
| 62.5° | 10619.2 | 6162.0 | 134.7 | 121.0 | 77.0 | 60.5 | 46.7 | 38.5 | 27.5 | 19.2 | 19.2 |
| 65° | 10363.5 | 5595.6 | 104.5 | 85.2 | 57.7 | 46.7 | 38.5 | 27.5 | 19.2 | 11.0 | 8.2 |
| 67.5° | 9299.4 | 4558.9 | 85.2 | 63.2 | 44.0 | 35.7 | 30.2 | 22.0 | 11.0 | 2.7 | 2.7 |
| 70° | 6937.4 | 3340.8 | 68.7 | 46.7 | 35.7 | 27.5 | 22.0 | 13.7 | 5.5 | 2.7 | 0.0 |
| 72.5° | 3794.5 | 1828.5 | 55.0 | 38.5 | 27.5 | 22.0 | 16.5 | 11.0 | 5.5 | 0.0 | 0.0 |
| 75° | 1253.8 | 486.7 | 41.2 | 27.5 | 16.5 | 13.7 | 11.0 | 8.2 | 2.7 | 0.0 | 0.0 |
| 77.5° | 302.5 | 126.5 | 33.0 | 24.7 | 13.7 | 8.2 | 5.5 | 2.7 | 2.7 | 0.0 | 0.0 |
| 80° | 93.5 | 52.2 | 24.7 | 16.5 | 11.0 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 38.5 | 24.7 | 11.0 | 11.0 | 8.2 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 19.2 | 13.7 | 8.2 | 5.5 | 5.5 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.7 | 5.5 | 2.7 | 2.7 | 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)