

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: P481920

Luminaire Tested: **IFLD-M-SA4A-722-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481920  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-722-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

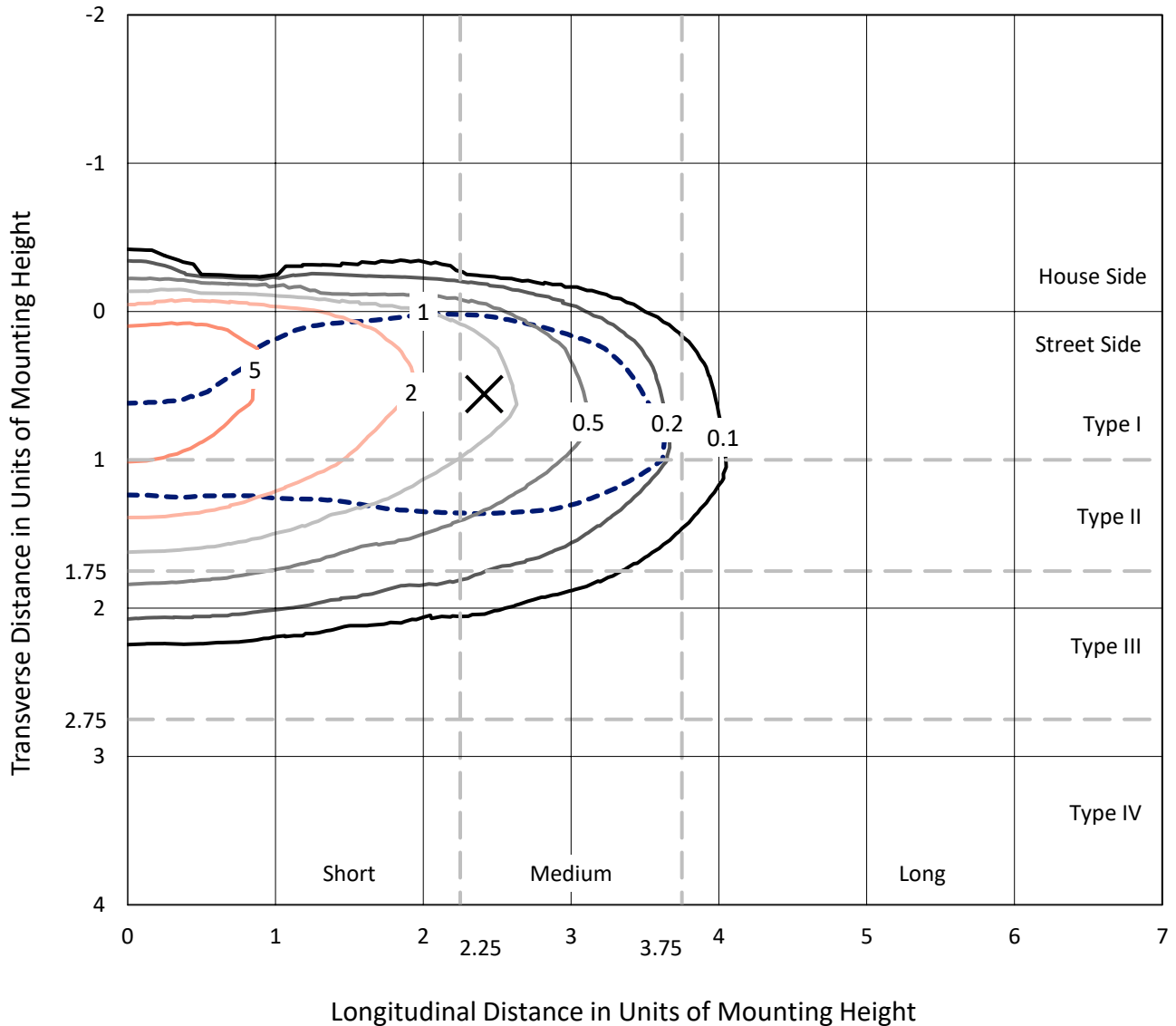
Lumens per Lamp: N/A  
Luminaire Lumens: 10694.8 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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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 CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

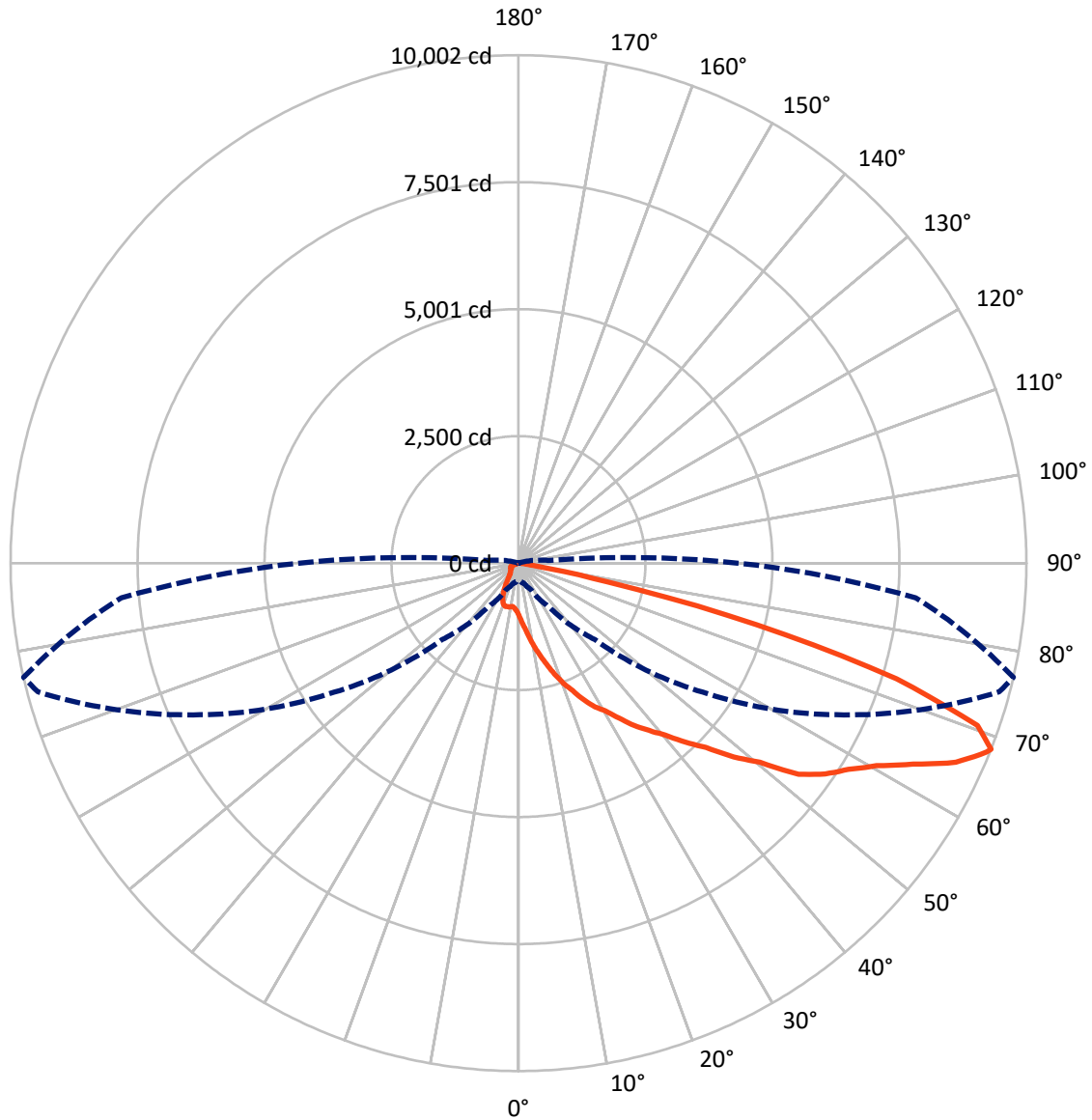
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc  
 Type II - Medium - N/A

REPORT NUMBER: P481920  
CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 485.0    | 0.0    | 485.0   |
|                    | % Fixture | 4.5      | 0.0    | 4.5     |
| <b>Street Side</b> | Lumens    | 10209.8  | 0.0    | 10209.8 |
|                    | % Fixture | 95.5     | 0.0    | 95.5    |
| <b>Total</b>       | Lumens    | 10694.8  | 0.0    | 10694.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 119.6   | 1.1       |
| 10°-20°   | 441.2   | 4.1       |
| 20°-30°   | 855.1   | 8.0       |
| 30°-40°   | 1490.7  | 13.9      |
| 40°-50°   | 2183.3  | 20.4      |
| 50°-60°   | 2565.1  | 24.0      |
| 60°-70°   | 2166.0  | 20.3      |
| 70°-80°   | 839.6   | 7.9       |
| 80°-90°   | 34.1    | 0.3       |
| 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°    | 10694.8 | 100.0     |
| 0°-180°   | 10694.8 | 100.0     |

**Coefficient of Utilization**



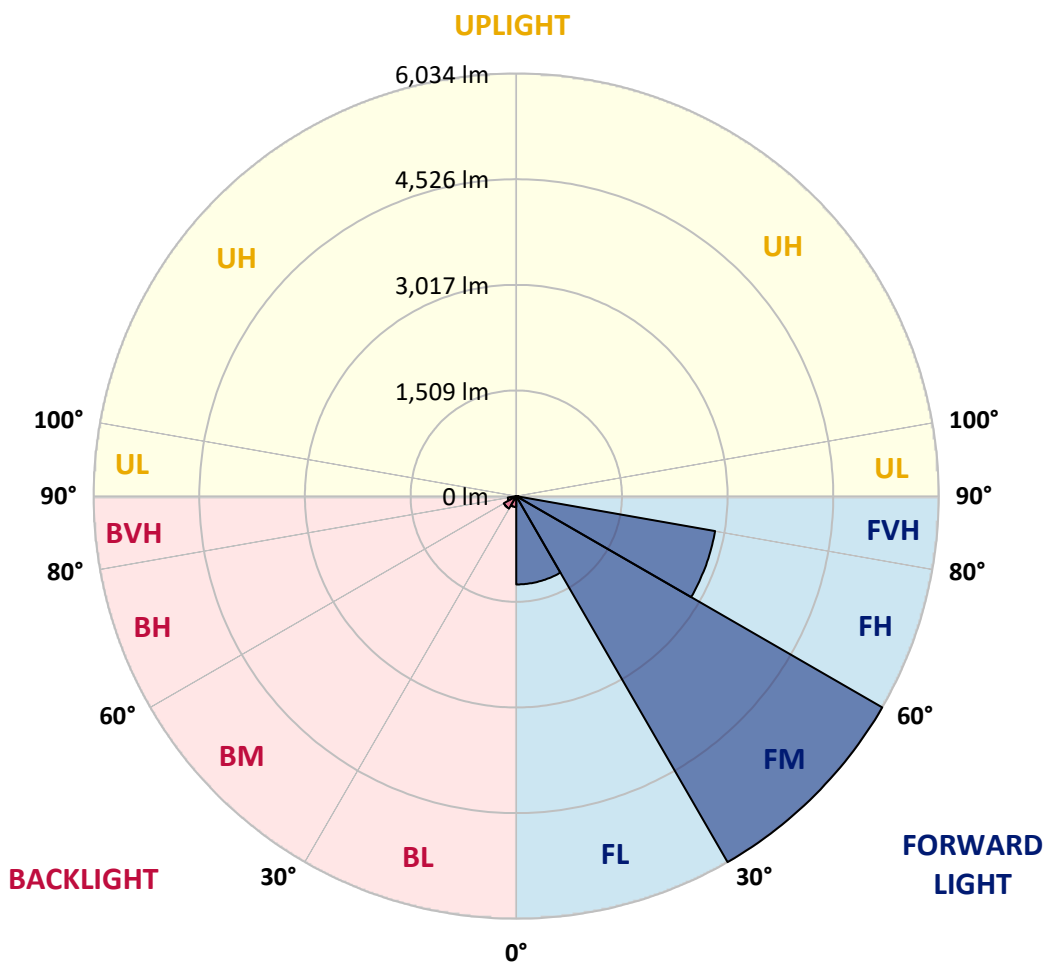
REPORT NUMBER: P481920  
 CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1261.0 | 11.8      |                         |      |         |
| FM (30°-60°)   | 6034.2 | 56.4      |                         |      |         |
| FH (60°-80°)   | 2883.1 | 27.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 31.5   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 155.0  | 1.4       | B1/500                  |      |         |
| BM (30°-60°)   | 204.9  | 1.9       | B0/220                  |      |         |
| BH (60°-80°)   | 122.5  | 1.1       | 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-G2**

Type II Medium





REPORT NUMBER: P481920

CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|
| 0°    | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0  | 1024.0 |
| 2.5°  | 1556.0 | 1526.5 | 1495.5 | 1486.7 | 1429.2 | 1364.4 | 1304.0 | 1245.1 | 1146.3 | 1147.8  | 1080.0 |
| 5°    | 2005.4 | 1968.5 | 1943.5 | 1937.6 | 1847.7 | 1735.7 | 1644.4 | 1477.9 | 1314.3 | 1277.5  | 1153.7 |
| 7.5°  | 2375.2 | 2363.4 | 2326.6 | 2295.6 | 2229.3 | 2092.3 | 1984.7 | 1746.0 | 1497.0 | 1455.8  | 1243.6 |
| 10°   | 2599.2 | 2616.8 | 2633.1 | 2593.3 | 2541.7 | 2443.0 | 2295.6 | 2037.8 | 1704.8 | 1653.2  | 1360.0 |
| 12.5° | 2837.9 | 2808.4 | 2818.7 | 2851.1 | 2783.3 | 2761.2 | 2578.5 | 2338.4 | 1947.9 | 1849.2  | 1507.3 |
| 15°   | 2899.7 | 2911.5 | 2936.6 | 3030.9 | 3076.6 | 3013.2 | 2855.5 | 2581.5 | 2199.9 | 2062.8  | 1644.4 |
| 17.5° | 2941.0 | 2935.1 | 2966.1 | 3107.5 | 3176.8 | 3237.2 | 3138.4 | 2852.6 | 2419.4 | 2297.1  | 1815.3 |
| 20°   | 2992.6 | 2960.2 | 3027.9 | 3117.8 | 3278.4 | 3405.1 | 3400.7 | 3125.2 | 2649.3 | 2519.6  | 1984.7 |
| 22.5° | 3184.1 | 3159.1 | 3213.6 | 3222.4 | 3334.4 | 3511.2 | 3554.0 | 3347.7 | 2885.0 | 2725.9  | 2167.4 |
| 25°   | 3537.7 | 3583.4 | 3518.6 | 3462.6 | 3496.5 | 3612.9 | 3643.8 | 3545.1 | 3122.2 | 2976.4  | 2350.1 |
| 27.5° | 4054.9 | 4049.0 | 3920.8 | 3848.6 | 3767.6 | 3752.9 | 3775.0 | 3729.3 | 3309.4 | 3204.7  | 2500.4 |
| 30°   | 4610.4 | 4561.8 | 4443.9 | 4270.1 | 4091.8 | 3981.3 | 3950.3 | 3903.2 | 3528.9 | 3377.1  | 2649.3 |
| 32.5° | 5052.5 | 5079.0 | 4947.8 | 4720.9 | 4424.8 | 4275.9 | 4127.1 | 4075.6 | 3770.6 | 3636.5  | 2820.2 |
| 35°   | 5459.1 | 5423.8 | 5319.1 | 5127.6 | 4862.4 | 4622.2 | 4389.4 | 4278.9 | 4060.8 | 3928.2  | 3008.8 |
| 37.5° | 5759.7 | 5803.9 | 5605.0 | 5422.3 | 5158.5 | 4959.6 | 4731.2 | 4489.6 | 4359.9 | 4183.1  | 3238.6 |
| 40°   | 6044.1 | 5974.8 | 5840.7 | 5672.8 | 5428.2 | 5276.4 | 5126.1 | 4748.9 | 4678.2 | 4449.8  | 3498.0 |
| 42.5° | 5994.0 | 5998.4 | 5924.7 | 5789.2 | 5612.4 | 5525.4 | 5473.9 | 5064.2 | 4967.0 | 4821.1  | 3751.4 |
| 45°   | 5789.2 | 5806.9 | 5831.9 | 5765.6 | 5780.3 | 5693.4 | 5831.9 | 5426.7 | 5330.9 | 5176.2  | 4043.1 |
| 47.5° | 5563.7 | 5593.2 | 5587.3 | 5708.1 | 5845.2 | 5874.6 | 6220.9 | 5829.0 | 5787.7 | 5702.2  | 4446.9 |
| 50°   | 5189.5 | 5201.3 | 5314.7 | 5534.3 | 5721.4 | 6029.3 | 6512.6 | 6268.0 | 6331.4 | 6163.4  | 4927.2 |
| 52.5° | 4550.0 | 4592.7 | 4884.5 | 5198.3 | 5575.5 | 6107.4 | 6710.1 | 6920.8 | 7081.4 | 6909.0  | 5388.4 |
| 55°   | 3741.1 | 3800.0 | 4087.3 | 4675.2 | 5227.8 | 5989.6 | 6889.8 | 7265.6 | 7591.2 | 7330.4  | 5668.4 |
| 57.5° | 3010.3 | 3016.1 | 3274.0 | 3881.1 | 4734.2 | 5758.2 | 6981.2 | 7433.5 | 7871.2 | 7661.9  | 6010.2 |
| 60°   | 2294.2 | 2270.6 | 2501.9 | 3027.9 | 3903.2 | 5189.5 | 6752.8 | 7519.0 | 8220.4 | 8099.5  | 6421.3 |
| 62.5° | 1476.4 | 1439.6 | 1691.5 | 2204.3 | 3048.6 | 4242.1 | 6296.0 | 7520.5 | 8765.5 | 8719.9  | 7109.4 |
| 65°   | 730.8  | 705.8  | 922.4  | 1351.2 | 2110.0 | 3244.5 | 5644.8 | 7492.5 | 9431.5 | 9461.0  | 7779.8 |
| 67.5° | 386.0  | 394.9  | 464.1  | 685.2  | 1217.1 | 2292.7 | 4663.5 | 7163.9 | 9771.9 | 9936.9  | 7941.9 |
| 68°   | 355.1  | 358.0  | 412.6  | 570.2  | 1056.5 | 2126.2 | 4430.7 | 7068.1 | 9798.4 | 10001.8 | 7852.0 |
| 70°   | 288.8  | 293.2  | 312.4  | 358.0  | 571.7  | 1383.6 | 3418.4 | 6254.8 | 9399.1 | 9584.8  | 7107.9 |
| 72.5° | 229.9  | 243.1  | 254.9  | 274.1  | 335.9  | 726.4  | 2126.2 | 4874.2 | 7765.1 | 7785.7  | 5532.8 |
| 75°   | 175.3  | 185.7  | 209.2  | 225.4  | 262.3  | 399.3  | 1012.3 | 2971.9 | 5095.2 | 4844.7  | 3259.3 |
| 77.5° | 135.6  | 144.4  | 154.7  | 176.8  | 219.5  | 269.6  | 309.4  | 1261.3 | 2164.5 | 1781.4  | 920.9  |
| 80°   | 81.0   | 86.9   | 120.8  | 138.5  | 191.5  | 182.7  | 122.3  | 350.7  | 439.1  | 346.3   | 168.0  |
| 82.5° | 47.2   | 51.6   | 69.3   | 106.1  | 134.1  | 98.7   | 72.2   | 109.0  | 107.6  | 94.3    | 56.0   |
| 85°   | 1.5    | 2.9    | 38.3   | 63.4   | 47.2   | 26.5   | 44.2   | 45.7   | 38.3   | 35.4    | 25.0   |
| 87.5° | 0.0    | 1.5    | 10.3   | 8.8    | 10.3   | 5.9    | 8.8    | 11.8   | 14.7   | 13.3    | 10.3   |
| 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-M-SA4A-722-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 | 1024.0 |
| 2.5°  | 1034.4 | 1001.9 | 929.7  | 875.2  | 816.3  | 780.9  | 745.6  | 723.5  | 711.7  | 704.3  | 710.2  |
| 5°    | 1060.9 | 993.1  | 876.7  | 773.6  | 705.8  | 660.1  | 614.4  | 590.9  | 568.8  | 557.0  | 564.3  |
| 7.5°  | 1119.8 | 1018.2 | 825.1  | 713.1  | 633.6  | 562.9  | 505.4  | 459.7  | 433.2  | 409.6  | 414.0  |
| 10°   | 1192.0 | 1032.9 | 826.6  | 677.8  | 562.9  | 450.9  | 369.8  | 312.4  | 280.0  | 259.3  | 257.9  |
| 12.5° | 1265.7 | 1090.4 | 832.5  | 642.4  | 475.9  | 338.9  | 243.1  | 200.4  | 181.2  | 170.9  | 170.9  |
| 15°   | 1377.7 | 1141.9 | 817.8  | 577.6  | 361.0  | 221.0  | 166.5  | 151.8  | 144.4  | 135.6  | 137.0  |
| 17.5° | 1474.9 | 1224.4 | 810.4  | 480.3  | 247.5  | 159.1  | 138.5  | 122.3  | 114.9  | 106.1  | 106.1  |
| 20°   | 1606.1 | 1276.0 | 770.6  | 371.3  | 170.9  | 132.6  | 112.0  | 97.2   | 85.5   | 78.1   | 79.6   |
| 22.5° | 1725.4 | 1315.8 | 699.9  | 253.4  | 131.1  | 104.6  | 82.5   | 67.8   | 57.5   | 48.6   | 50.1   |
| 25°   | 1855.1 | 1355.6 | 596.7  | 156.2  | 92.8   | 64.8   | 44.2   | 32.4   | 22.1   | 16.2   | 16.2   |
| 27.5° | 1947.9 | 1367.4 | 462.7  | 92.8   | 56.0   | 29.5   | 10.3   | 1.5    | 0.0    | 0.0    | 0.0    |
| 30°   | 2042.2 | 1371.8 | 319.7  | 50.1   | 22.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5° | 2149.8 | 1370.3 | 200.4  | 26.5   | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°   | 2232.3 | 1345.3 | 95.8   | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 2357.5 | 1308.4 | 29.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 2500.4 | 1242.1 | 5.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 2628.6 | 1174.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 2774.5 | 1090.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 3030.9 | 1055.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 3365.4 | 1027.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 3571.6 | 944.5  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 3679.2 | 859.0  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 3838.3 | 817.8  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 4074.1 | 820.7  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 4442.4 | 862.0  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 4645.8 | 820.7  | 5.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 4473.4 | 657.2  | 28.0   | 7.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 68°   | 4324.6 | 604.1  | 28.0   | 7.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 3574.6 | 393.4  | 26.5   | 7.4    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2603.6 | 218.1  | 22.1   | 5.9    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1514.7 | 109.0  | 16.2   | 5.9    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 394.9  | 54.5   | 13.3   | 7.4    | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 78.1   | 35.4   | 11.8   | 8.8    | 5.9    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 36.8   | 25.0   | 11.8   | 8.8    | 7.4    | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.2   | 11.8   | 11.8   | 8.8    | 8.8    | 5.9    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.8    | 4.4    | 4.4    | 4.4    | 4.4    | 2.9    | 1.5    | 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)