

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: P481532

Luminaire Tested: **IFLD-M-SA4C-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481532  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

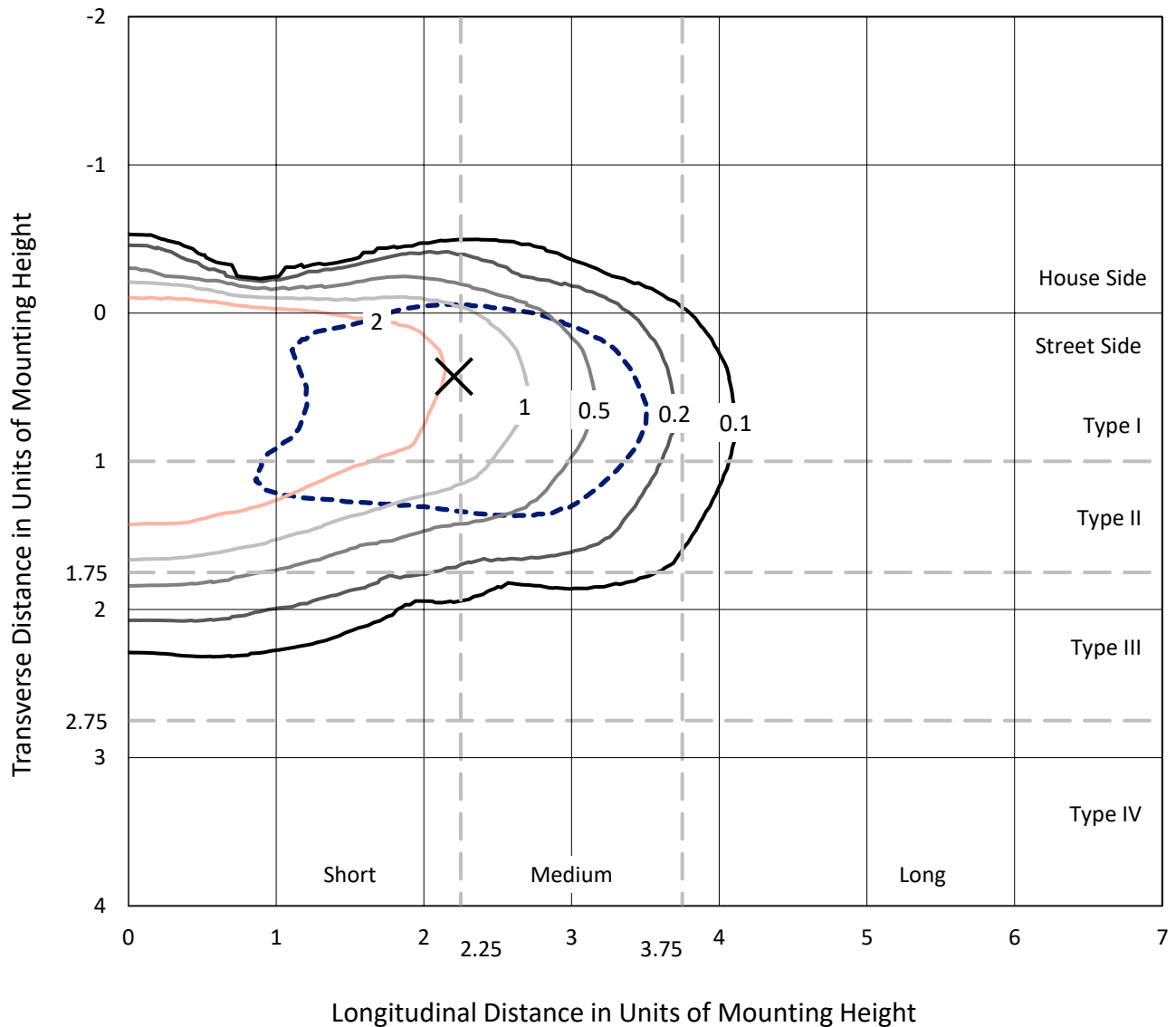
Lumens per Lamp: N/A  
Luminaire Lumens: 15081.7 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

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

REPORT NUMBER: P481532  
 CATALOG NUMBER: IFLD-M-SA4C-722-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

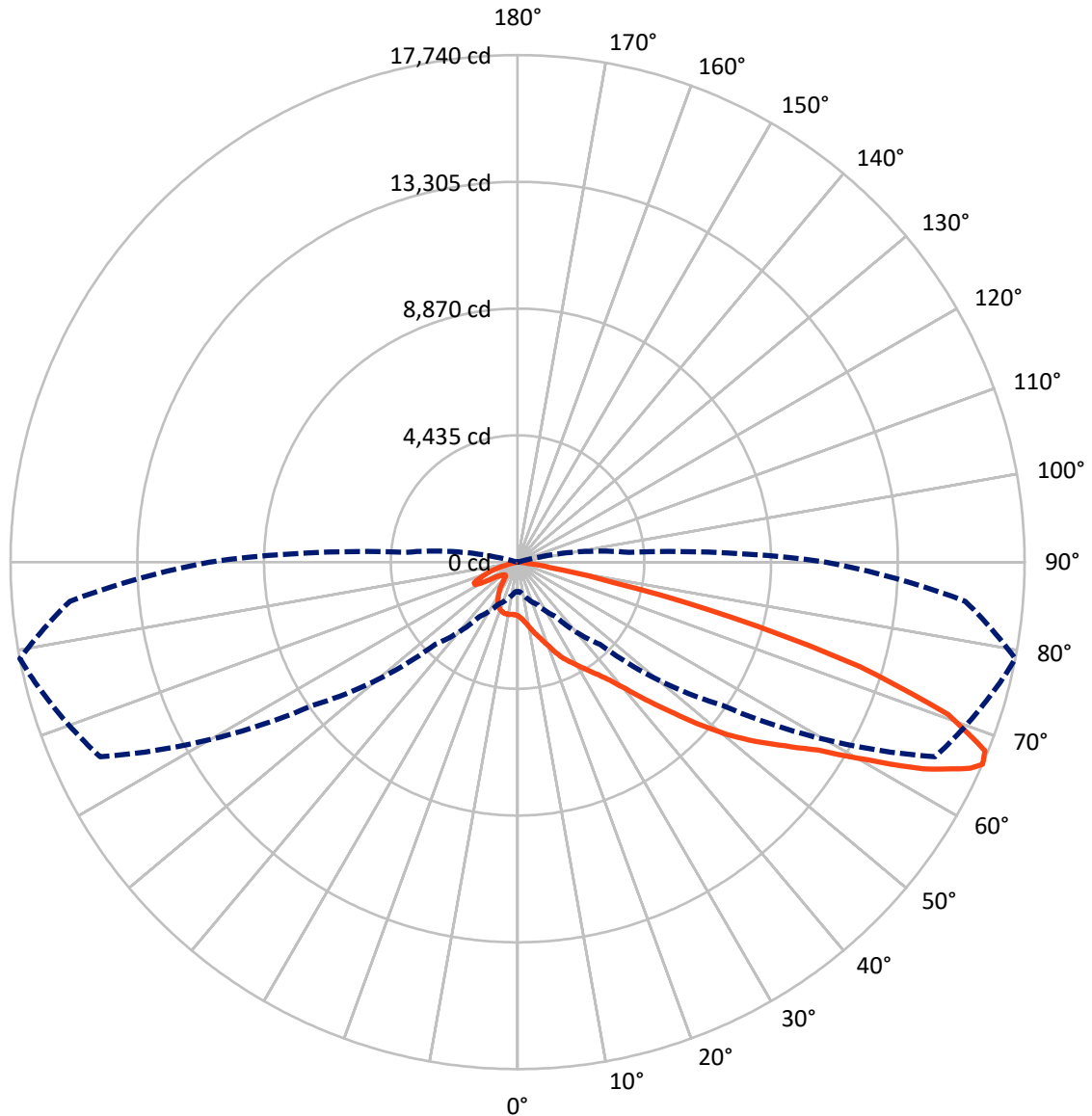
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481532  
CATALOG NUMBER: IFLD-M-SA4C-722-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481532  
 CATALOG NUMBER: IFLD-M-SA4C-722-U-T2-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1132.4   | 0.0    | 1132.4  |
|                    | % Fixture | 7.5      | 0.0    | 7.5     |
| <b>Street Side</b> | Lumens    | 13949.3  | 0.0    | 13949.3 |
|                    | % Fixture | 92.5     | 0.0    | 92.5    |
| <b>Total</b>       | Lumens    | 15081.7  | 0.0    | 15081.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 177.4   | 1.2       |
| 10°-20°   | 488.4   | 3.2       |
| 20°-30°   | 811.3   | 5.4       |
| 30°-40°   | 1393.5  | 9.2       |
| 40°-50°   | 2524.5  | 16.7      |
| 50°-60°   | 3990.5  | 26.5      |
| 60°-70°   | 4060.7  | 26.9      |
| 70°-80°   | 1548.5  | 10.3      |
| 80°-90°   | 86.8    | 0.6       |
| 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°    | 15081.7 | 100.0     |
| 0°-180°   | 15081.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P481532

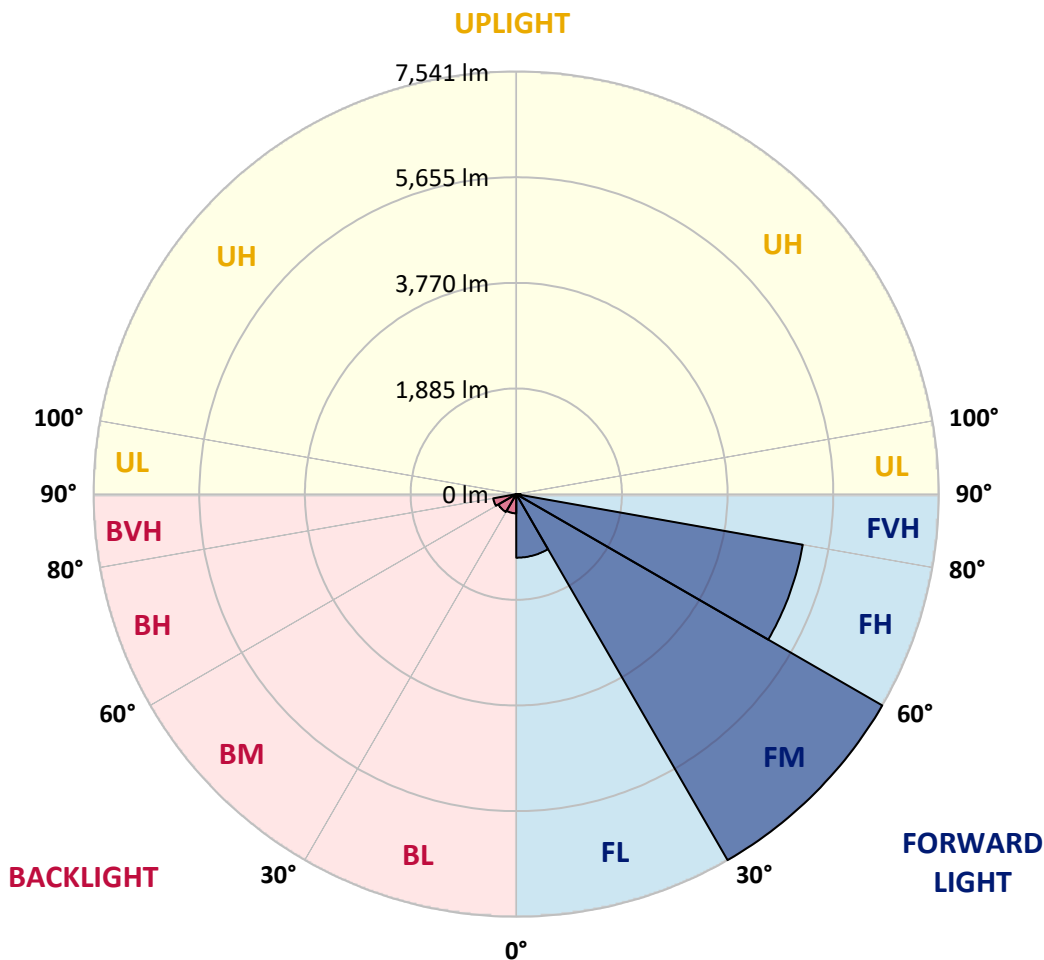
CATALOG NUMBER: IFLD-M-SA4C-722-U-T2-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1134.6 | 7.5       |                         |      |         |
| FM (30°-60°)   | 7540.5 | 50.0      |                         |      |         |
| FH (60°-80°)   | 5191.7 | 34.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 82.4   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 342.5  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 368.1  | 2.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 417.5  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Short





REPORT NUMBER: P481532

CATALOG NUMBER: IFLD-M-SA4C-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3  | 1876.3  | 1876.3  | 1876.3  | 1876.3  |
| 2.5°  | 2125.1 | 2122.8 | 2113.5 | 2097.2 | 2076.3 | 2069.3 | 2039.1  | 1997.2  | 1974.0  | 1948.4  | 1936.8  |
| 5°    | 2271.6 | 2260.0 | 2287.9 | 2276.3 | 2280.9 | 2225.1 | 2187.9  | 2157.7  | 2069.3  | 2034.4  | 1978.6  |
| 7.5°  | 2304.2 | 2315.8 | 2313.5 | 2332.1 | 2350.7 | 2371.6 | 2346.0  | 2301.8  | 2213.5  | 2162.3  | 2101.9  |
| 10°   | 2304.2 | 2299.5 | 2318.1 | 2343.7 | 2397.2 | 2443.7 | 2513.4  | 2455.3  | 2387.9  | 2327.4  | 2218.1  |
| 12.5° | 2262.3 | 2255.3 | 2273.9 | 2327.4 | 2422.7 | 2518.1 | 2594.8  | 2650.6  | 2555.3  | 2506.4  | 2364.6  |
| 15°   | 2134.4 | 2127.5 | 2204.2 | 2299.5 | 2425.1 | 2580.8 | 2741.3  | 2832.0  | 2766.9  | 2690.1  | 2532.0  |
| 17.5° | 1976.3 | 1985.6 | 2067.0 | 2225.1 | 2425.1 | 2611.1 | 2815.7  | 3013.3  | 3004.0  | 2906.4  | 2741.3  |
| 20°   | 1922.8 | 1929.8 | 2011.2 | 2125.1 | 2353.0 | 2632.0 | 2931.9  | 3210.9  | 3266.7  | 3150.5  | 2934.3  |
| 22.5° | 2025.1 | 2018.2 | 2025.1 | 2094.9 | 2304.2 | 2613.4 | 3008.7  | 3436.5  | 3536.5  | 3445.8  | 3187.7  |
| 25°   | 2373.9 | 2369.3 | 2311.1 | 2204.2 | 2276.3 | 2571.5 | 3048.2  | 3585.3  | 3815.5  | 3731.8  | 3392.3  |
| 27.5° | 2885.4 | 2866.8 | 2776.2 | 2552.9 | 2406.5 | 2597.1 | 3113.3  | 3729.4  | 4059.6  | 3964.3  | 3576.0  |
| 30°   | 3434.2 | 3390.0 | 3271.4 | 2992.4 | 2743.6 | 2692.4 | 3150.5  | 3836.4  | 4331.6  | 4210.7  | 3736.4  |
| 32.5° | 3813.1 | 3871.3 | 3834.1 | 3550.4 | 3169.1 | 2913.3 | 3210.9  | 3971.2  | 4582.7  | 4503.7  | 4010.8  |
| 35°   | 4399.1 | 4466.5 | 4310.7 | 4059.6 | 3676.0 | 3264.4 | 3338.8  | 4080.5  | 4968.7  | 4836.2  | 4266.5  |
| 37.5° | 5138.4 | 5189.6 | 5078.0 | 4601.3 | 4196.8 | 3696.9 | 3601.6  | 4308.4  | 5301.2  | 5238.4  | 4594.4  |
| 40°   | 5510.5 | 5756.9 | 5598.8 | 5168.7 | 4733.9 | 4301.4 | 4036.3  | 4575.8  | 5880.1  | 5829.0  | 5047.8  |
| 42.5° | 6024.3 | 6147.5 | 6066.1 | 5747.6 | 5294.2 | 4947.8 | 4573.4  | 5096.6  | 6582.3  | 6582.3  | 5661.6  |
| 45°   | 6568.4 | 6573.0 | 6568.4 | 6308.0 | 5905.7 | 5726.7 | 5298.9  | 5749.9  | 7338.0  | 7421.7  | 6396.3  |
| 47.5° | 7014.8 | 7154.3 | 7142.7 | 6986.9 | 6675.3 | 6607.9 | 6024.3  | 6494.0  | 8286.6  | 8433.1  | 7112.4  |
| 50°   | 7245.0 | 7400.7 | 7447.2 | 7528.6 | 7514.7 | 7656.5 | 6817.2  | 7356.6  | 9105.0  | 9465.4  | 8033.2  |
| 52.5° | 7182.2 | 7193.8 | 7479.8 | 7800.7 | 8312.2 | 8709.8 | 7772.8  | 8335.4  | 10063.0 | 10418.7 | 8744.6  |
| 55°   | 6668.3 | 6624.2 | 7212.4 | 7579.8 | 8637.7 | 9353.8 | 9095.7  | 9556.1  | 10809.3 | 11351.1 | 9479.4  |
| 57.5° | 5540.7 | 5552.3 | 6096.4 | 6842.7 | 8395.9 | 9609.6 | 10509.4 | 11151.1 | 11855.6 | 12402.0 | 10511.7 |
| 60°   | 3824.8 | 3810.8 | 4420.0 | 5282.6 | 6975.3 | 9132.9 | 11323.2 | 13218.1 | 13255.3 | 14029.6 | 12364.8 |
| 62.5° | 2150.7 | 2155.4 | 2618.0 | 3355.1 | 4880.4 | 7463.5 | 11283.6 | 15413.0 | 15254.9 | 15933.8 | 14471.3 |
| 65°   | 1218.3 | 1248.6 | 1567.1 | 1987.9 | 2922.6 | 5010.6 | 9704.9  | 16287.2 | 16796.4 | 17400.9 | 15750.1 |
| 66°   | 1030.0 | 1050.9 | 1323.0 | 1641.5 | 2332.1 | 4064.2 | 8735.3  | 16117.5 | 17280.0 | 17740.4 | 15724.6 |
| 67.5° | 797.5  | 825.4  | 1053.3 | 1302.0 | 1711.3 | 2813.4 | 7031.1  | 15273.5 | 17368.4 | 17638.1 | 15280.5 |
| 70°   | 546.4  | 565.0  | 739.4  | 988.2  | 1169.5 | 1439.2 | 4203.8  | 12627.5 | 15759.4 | 15987.3 | 13280.9 |
| 72.5° | 383.6  | 392.9  | 518.5  | 748.7  | 899.8  | 823.1  | 2085.6  | 8984.1  | 12060.2 | 12504.3 | 10330.4 |
| 75°   | 276.7  | 286.0  | 355.7  | 537.1  | 702.2  | 539.4  | 955.6   | 5738.3  | 7396.1  | 7744.9  | 6221.9  |
| 77.5° | 200.0  | 211.6  | 241.8  | 346.4  | 509.2  | 379.0  | 469.7   | 2997.0  | 3487.6  | 3427.2  | 2676.2  |
| 80°   | 120.9  | 132.5  | 179.0  | 223.2  | 372.0  | 267.4  | 258.1   | 1250.9  | 1236.9  | 1174.2  | 841.7   |
| 82.5° | 55.8   | 65.1   | 95.3   | 151.1  | 260.4  | 186.0  | 123.2   | 446.4   | 390.6   | 358.1   | 237.2   |
| 85°   | 16.3   | 20.9   | 55.8   | 113.9  | 132.5  | 90.7   | 74.4    | 153.5   | 160.4   | 137.2   | 79.1    |
| 87.5° | 0.0    | 2.3    | 25.6   | 27.9   | 39.5   | 30.2   | 27.9    | 39.5    | 74.4    | 60.5    | 25.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P481532

CATALOG NUMBER: IFLD-M-SA4C-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1876.3  | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 | 1876.3 |
| 2.5°  | 1894.9  | 1878.7 | 1839.1 | 1778.7 | 1725.2 | 1697.3 | 1657.8 | 1622.9 | 1604.3 | 1602.0 | 1599.7 |
| 5°    | 1941.4  | 1897.3 | 1801.9 | 1692.7 | 1611.3 | 1522.9 | 1462.5 | 1418.3 | 1376.5 | 1336.9 | 1360.2 |
| 7.5°  | 2004.2  | 1934.5 | 1778.7 | 1636.9 | 1460.2 | 1346.2 | 1239.3 | 1176.5 | 1139.3 | 1104.4 | 1099.8 |
| 10°   | 2101.9  | 2013.5 | 1762.4 | 1506.7 | 1304.4 | 1137.0 | 1027.7 | 937.0  | 885.9  | 825.4  | 848.7  |
| 12.5° | 2234.4  | 2076.3 | 1702.0 | 1388.1 | 1127.7 | 951.0  | 795.2  | 648.7  | 567.3  | 504.5  | 506.9  |
| 15°   | 2366.9  | 2160.0 | 1646.2 | 1243.9 | 967.2  | 734.7  | 506.9  | 406.9  | 383.6  | 369.7  | 374.3  |
| 17.5° | 2497.1  | 2227.4 | 1560.1 | 1097.4 | 783.6  | 467.3  | 369.7  | 348.8  | 337.1  | 323.2  | 323.2  |
| 20°   | 2655.2  | 2271.6 | 1453.2 | 962.6  | 539.4  | 346.4  | 316.2  | 302.3  | 283.7  | 265.1  | 267.4  |
| 22.5° | 2808.7  | 2308.8 | 1329.9 | 790.5  | 362.7  | 299.9  | 265.1  | 246.5  | 230.2  | 211.6  | 211.6  |
| 25°   | 2962.2  | 2320.4 | 1169.5 | 567.3  | 293.0  | 239.5  | 206.9  | 181.4  | 165.1  | 148.8  | 151.1  |
| 27.5° | 3066.8  | 2248.4 | 1018.4 | 362.7  | 234.8  | 181.4  | 144.2  | 123.2  | 109.3  | 93.0   | 93.0   |
| 30°   | 3127.2  | 2115.8 | 855.6  | 255.8  | 176.7  | 123.2  | 86.0   | 65.1   | 51.2   | 39.5   | 37.2   |
| 32.5° | 3187.7  | 2008.9 | 671.9  | 195.3  | 116.3  | 65.1   | 32.6   | 11.6   | 0.0    | 0.0    | 0.0    |
| 35°   | 3308.6  | 1888.0 | 451.1  | 109.3  | 39.5   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 3385.3  | 1720.6 | 206.9  | 16.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 3578.3  | 1636.9 | 51.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 3892.2  | 1578.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 4236.3  | 1555.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 4694.3  | 1618.3 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 5178.0  | 1788.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 5708.1  | 1948.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 6170.8  | 2141.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 7021.8  | 2597.1 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 8549.3  | 3492.3 | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 10269.9 | 4157.3 | 25.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 10900.0 | 4141.0 | 44.2   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 10788.4 | 3913.1 | 44.2   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 10209.4 | 3476.0 | 39.5   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 8767.9  | 2871.5 | 39.5   | 7.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 6684.6  | 2236.7 | 37.2   | 9.3    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 4034.0  | 1190.4 | 30.2   | 11.6   | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1606.6  | 418.5  | 23.3   | 9.3    | 4.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 434.8   | 125.6  | 14.0   | 9.3    | 7.0    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 113.9   | 46.5   | 11.6   | 9.3    | 4.7    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 44.2    | 18.6   | 9.3    | 7.0    | 7.0    | 4.7    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.0    | 7.0    | 7.0    | 4.7    | 4.7    | 2.3    | 2.3    | 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)