

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: P478432

Luminaire Tested: **IFLD-S-SA3D-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478432  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

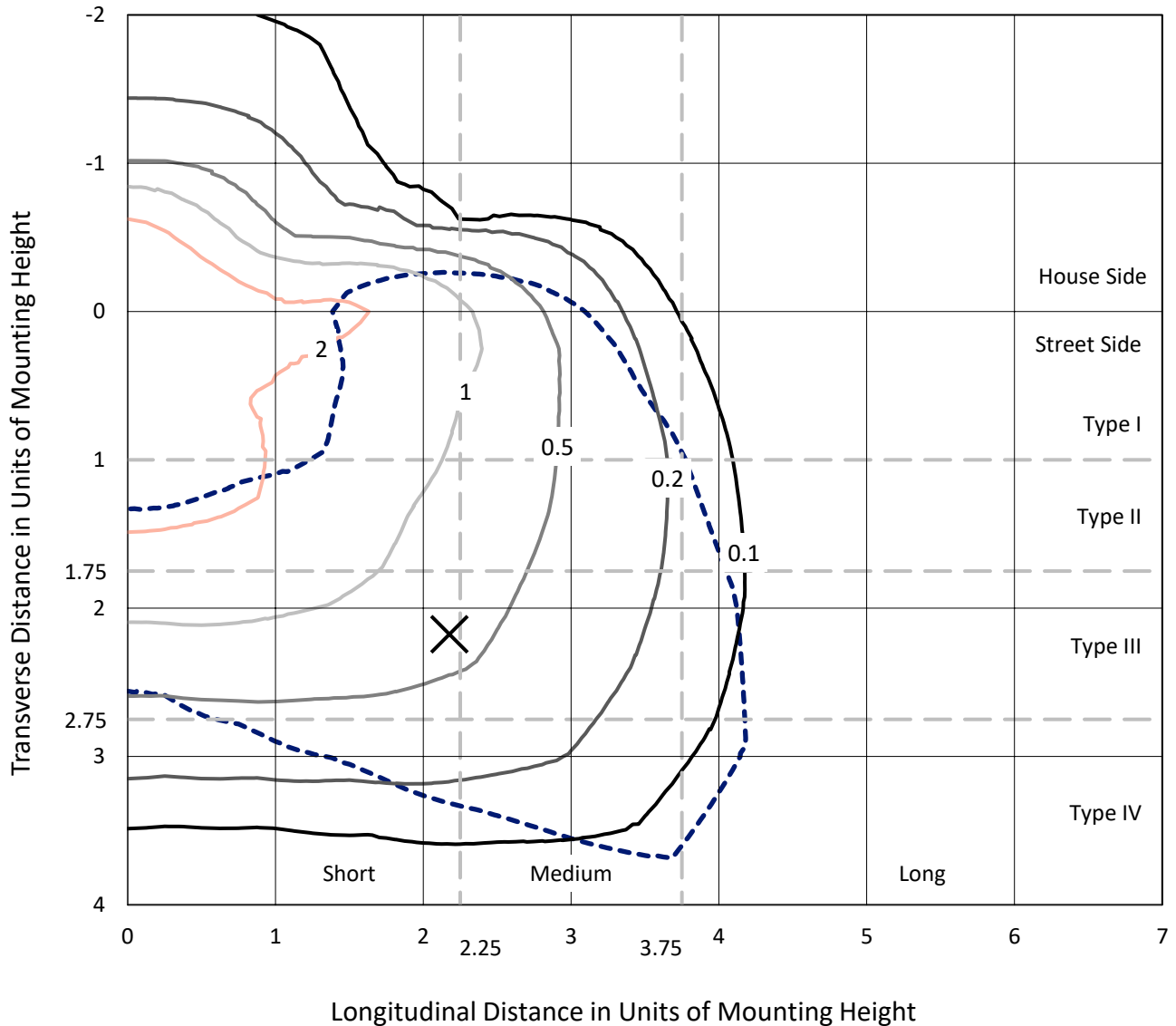
Lumens per Lamp: N/A  
Luminaire Lumens: 19701.8 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
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: P478432  
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

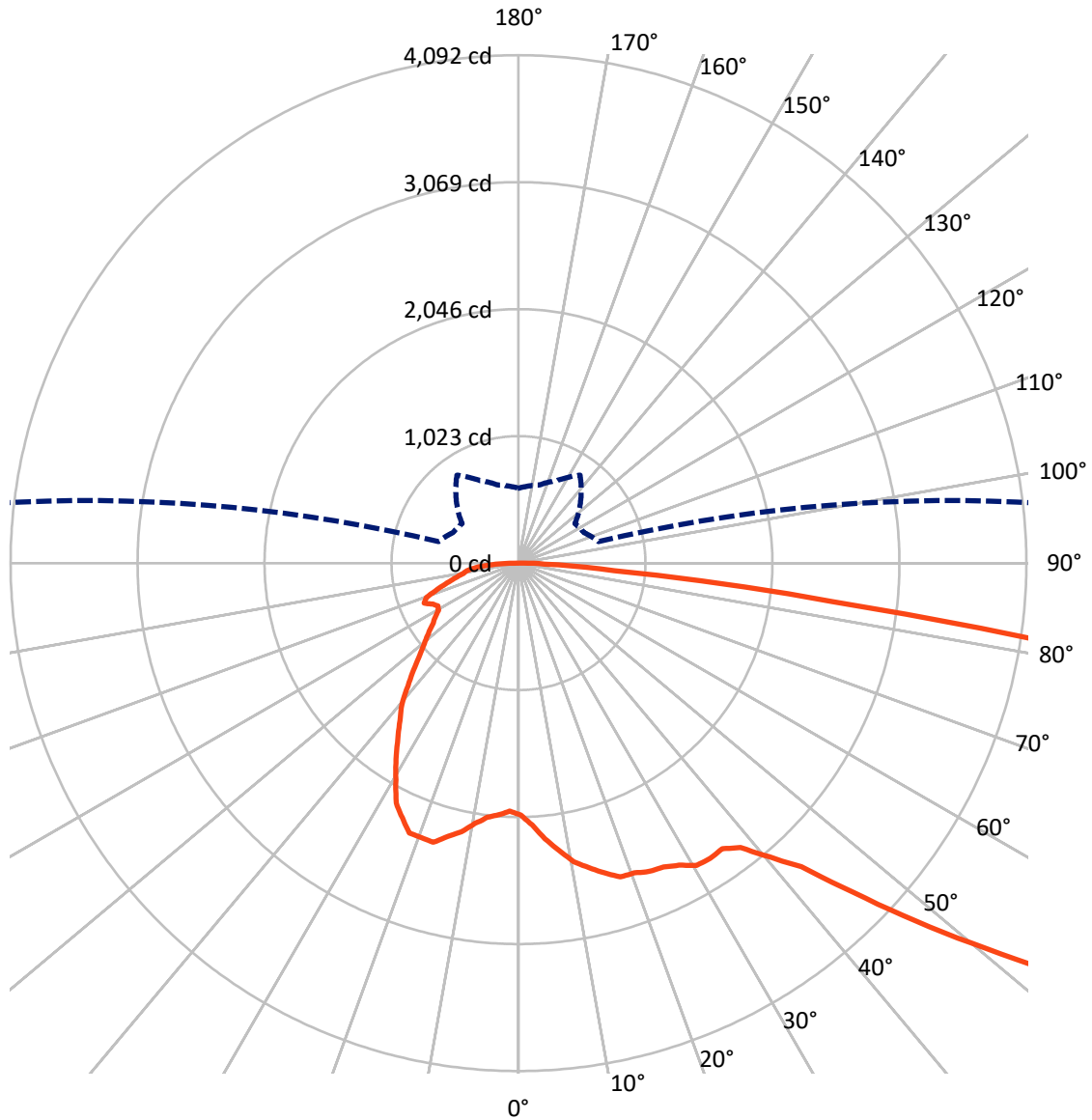
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478432  
CATALOG NUMBER: IFLD-S-SA3D-727-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478432  
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T4W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4385.7   | 0.0    | 4385.7  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 15316.0  | 0.0    | 15316.0 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 19701.8  | 0.0    | 19701.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 207.6   | 1.1       |
| 10°-20°   | 690.8   | 3.5       |
| 20°-30°   | 1166.5  | 5.9       |
| 30°-40°   | 1614.2  | 8.2       |
| 40°-50°   | 2309.0  | 11.7      |
| 50°-60°   | 3724.1  | 18.9      |
| 60°-70°   | 5492.6  | 27.9      |
| 70°-80°   | 3988.6  | 20.2      |
| 80°-90°   | 508.4   | 2.6       |
| 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°    | 19701.8 | 100.0     |
| 0°-180°   | 19701.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P478432

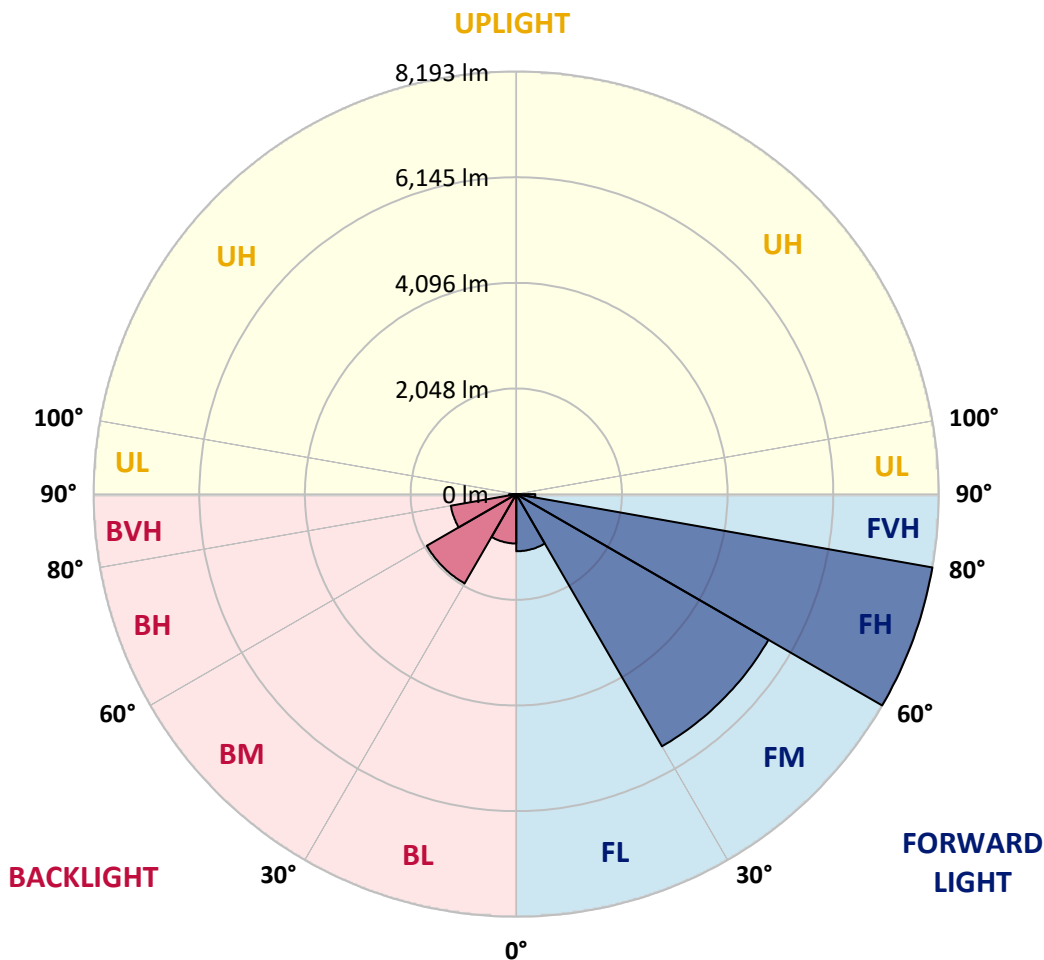
CATALOG NUMBER: IFLD-S-SA3D-727-U-T4W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1107.3 | 5.6       |                         |      |          |
| FM (30°-60°)   | 5645.8 | 28.7      |                         |      |          |
| FH (60°-80°)   | 8192.9 | 41.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 370.1  | 1.9       |                         |      | G3/500   |
| BL (0°-30°)    | 957.6  | 4.9       | B2/1000                 |      |          |
| BM (30°-60°)   | 2001.5 | 10.2      | B2/2500                 |      |          |
| BH (60°-80°)   | 1288.2 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 138.4  | 0.7       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Short





REPORT NUMBER: P478432  
 CATALOG NUMBER: IFLD-S-SA3D-727-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9  | 2028.9  | 2028.9  | 2028.9  | 2028.9  | 2028.9  | 2028.9  |
| 2.5°  | 2137.3 | 2150.0 | 2137.3 | 2135.2 | 2113.9  | 2099.0  | 2111.8  | 2092.7  | 2071.4  | 2062.9  | 2043.8  |
| 5°    | 2332.7 | 2334.9 | 2311.5 | 2313.6 | 2269.0  | 2222.3  | 2230.8  | 2173.4  | 2111.8  | 2088.4  | 2050.2  |
| 7.5°  | 2532.4 | 2509.1 | 2475.1 | 2464.5 | 2394.3  | 2343.4  | 2337.0  | 2286.0  | 2190.4  | 2137.3  | 2084.2  |
| 10°   | 2662.0 | 2670.5 | 2615.3 | 2568.6 | 2509.1  | 2447.5  | 2445.3  | 2349.7  | 2294.5  | 2215.9  | 2147.9  |
| 12.5° | 2776.8 | 2778.9 | 2732.1 | 2657.8 | 2583.4  | 2506.9  | 2517.6  | 2475.1  | 2381.6  | 2307.2  | 2239.3  |
| 15°   | 2866.0 | 2853.2 | 2802.3 | 2734.3 | 2655.7  | 2596.2  | 2589.8  | 2553.7  | 2475.1  | 2413.5  | 2300.9  |
| 17.5° | 2891.5 | 2885.1 | 2834.1 | 2761.9 | 2685.4  | 2640.8  | 2657.8  | 2598.3  | 2566.4  | 2511.2  | 2402.8  |
| 20°   | 2842.6 | 2827.7 | 2819.3 | 2738.5 | 2683.3  | 2679.0  | 2664.2  | 2676.9  | 2623.8  | 2572.8  | 2494.2  |
| 22.5° | 2753.4 | 2747.0 | 2742.8 | 2679.0 | 2653.5  | 2672.7  | 2698.2  | 2717.3  | 2708.8  | 2659.9  | 2570.7  |
| 25°   | 2662.0 | 2691.8 | 2664.2 | 2634.4 | 2670.5  | 2719.4  | 2713.0  | 2774.6  | 2774.6  | 2759.8  | 2685.4  |
| 27.5° | 2725.8 | 2706.7 | 2685.4 | 2670.5 | 2683.3  | 2759.8  | 2755.5  | 2829.9  | 2857.5  | 2829.9  | 2744.9  |
| 30°   | 2885.1 | 2866.0 | 2804.4 | 2738.5 | 2721.5  | 2804.4  | 2825.6  | 2891.5  | 2904.2  | 2836.2  | 2764.0  |
| 32.5° | 3184.7 | 3174.0 | 3076.3 | 2883.0 | 2778.9  | 2825.6  | 2836.2  | 2910.6  | 2900.0  | 2857.5  | 2827.7  |
| 35°   | 3628.7 | 3592.6 | 3456.6 | 3129.4 | 2900.0  | 2853.2  | 2825.6  | 2885.1  | 2925.5  | 2904.2  | 2876.6  |
| 37.5° | 4115.2 | 4074.8 | 3907.0 | 3492.7 | 3118.8  | 2927.6  | 2906.4  | 2955.2  | 3002.0  | 2991.3  | 2934.0  |
| 40°   | 4580.5 | 4580.5 | 4429.6 | 3947.4 | 3443.9  | 3108.2  | 3112.4  | 3057.2  | 3099.7  | 3080.6  | 3091.2  |
| 42.5° | 5039.4 | 5022.4 | 4960.8 | 4480.6 | 3792.3  | 3409.9  | 3341.9  | 3203.8  | 3280.3  | 3273.9  | 3288.8  |
| 45°   | 5504.7 | 5491.9 | 5474.9 | 4977.8 | 4291.5  | 3817.8  | 3781.7  | 3533.1  | 3603.2  | 3573.5  | 3637.2  |
| 47.5° | 5876.4 | 5891.3 | 5891.3 | 5532.3 | 4824.8  | 4361.7  | 4308.5  | 3915.5  | 4049.4  | 4064.2  | 4079.1  |
| 50°   | 6193.0 | 6199.4 | 6193.0 | 6061.3 | 5419.7  | 4984.1  | 4875.8  | 4476.4  | 4610.2  | 4727.1  | 4863.0  |
| 52.5° | 6630.7 | 6639.2 | 6609.4 | 6558.4 | 6227.0  | 5638.5  | 5517.4  | 5073.4  | 5347.4  | 5470.7  | 5715.0  |
| 55°   | 7170.3 | 7106.6 | 7051.3 | 7089.6 | 7002.4  | 6358.7  | 6233.4  | 5689.5  | 6101.6  | 6265.2  | 6753.9  |
| 57.5° | 7270.1 | 7325.4 | 7465.6 | 7769.4 | 7894.8  | 7059.8  | 6987.6  | 6445.8  | 6953.6  | 7095.9  | 7911.7  |
| 60°   | 7622.8 | 7531.5 | 7875.6 | 8534.2 | 8674.5  | 7973.4  | 7899.0  | 7274.4  | 7801.3  | 7950.0  | 8980.4  |
| 62.5° | 7854.4 | 7850.1 | 8360.0 | 9141.8 | 9460.5  | 8920.9  | 8770.1  | 8351.5  | 8716.9  | 8861.4  | 10144.6 |
| 65°   | 7786.4 | 7848.0 | 8753.1 | 9498.8 | 10117.0 | 9998.0  | 9910.9  | 9277.8  | 9760.1  | 9747.3  | 10903.1 |
| 67.5° | 7166.0 | 7340.2 | 8504.5 | 9755.8 | 11094.3 | 11311.0 | 11283.4 | 10580.2 | 10607.8 | 10338.0 | 11240.9 |
| 70°   | 6305.6 | 6246.1 | 7452.8 | 9488.1 | 11582.9 | 12868.3 | 12861.9 | 11548.9 | 11370.5 | 10467.6 | 10272.1 |
| 72°   | 4843.9 | 4778.1 | 5770.2 | 8147.6 | 11325.9 | 13490.8 | 13682.0 | 12220.3 | 11362.0 | 9930.0  | 8485.4  |
| 72.5° | 4397.8 | 4340.4 | 5328.3 | 7669.6 | 11041.2 | 13652.2 | 13563.0 | 12245.8 | 11272.8 | 9677.2  | 7926.6  |
| 75°   | 2024.7 | 1958.8 | 2662.0 | 4695.2 | 8612.8  | 12097.1 | 12400.9 | 11459.7 | 9845.1  | 7703.5  | 4748.3  |
| 77.5° | 603.4  | 584.2  | 856.2  | 1895.1 | 5005.4  | 8912.4  | 9029.2  | 8646.8  | 6872.9  | 4219.3  | 1761.2  |
| 80°   | 335.7  | 337.8  | 441.9  | 709.6  | 2201.0  | 5152.0  | 5572.6  | 5341.1  | 3371.6  | 1393.7  | 586.4   |
| 82.5° | 187.0  | 197.6  | 276.2  | 420.7  | 1011.3  | 2364.6  | 2545.2  | 2453.8  | 1219.5  | 654.4   | 320.8   |
| 85°   | 97.7   | 102.0  | 144.5  | 225.2  | 573.6   | 747.8   | 769.1   | 824.3   | 633.1   | 446.2   | 172.1   |
| 87.5° | 38.2   | 38.2   | 53.1   | 93.5   | 212.5   | 231.6   | 208.2   | 252.8   | 363.3   | 288.9   | 85.0    |
| 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: P478432

CATALOG NUMBER: IFLD-S-SA3D-727-U-T4W

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2028.9  | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9 | 2028.9 |
| 2.5°  | 2060.8  | 2043.8 | 2041.7 | 2014.1 | 2022.6 | 1999.2 | 2001.3 | 1997.1 | 1999.2 | 1994.9 | 1984.3 |
| 5°    | 2050.2  | 2037.4 | 2001.3 | 2024.7 | 2003.4 | 2033.2 | 2056.5 | 2048.0 | 2054.4 | 2052.3 | 2054.4 |
| 7.5°  | 2065.0  | 2048.0 | 2043.8 | 2031.0 | 2050.2 | 2062.9 | 2082.0 | 2135.2 | 2130.9 | 2137.3 | 2150.0 |
| 10°   | 2109.7  | 2090.5 | 2077.8 | 2096.9 | 2086.3 | 2126.7 | 2147.9 | 2175.5 | 2224.4 | 2226.5 | 2201.0 |
| 12.5° | 2196.8  | 2184.0 | 2158.5 | 2162.8 | 2198.9 | 2211.6 | 2224.4 | 2241.4 | 2273.2 | 2266.9 | 2290.2 |
| 15°   | 2296.6  | 2269.0 | 2254.1 | 2249.9 | 2258.4 | 2273.2 | 2271.1 | 2288.1 | 2305.1 | 2320.0 | 2313.6 |
| 17.5° | 2368.9  | 2332.7 | 2337.0 | 2358.2 | 2356.1 | 2351.9 | 2324.2 | 2315.7 | 2324.2 | 2332.7 | 2328.5 |
| 20°   | 2443.2  | 2447.5 | 2415.6 | 2396.5 | 2388.0 | 2345.5 | 2324.2 | 2298.7 | 2273.2 | 2286.0 | 2305.1 |
| 22.5° | 2536.7  | 2517.6 | 2470.8 | 2413.5 | 2371.0 | 2345.5 | 2279.6 | 2235.0 | 2235.0 | 2247.8 | 2241.4 |
| 25°   | 2642.9  | 2602.5 | 2521.8 | 2417.7 | 2364.6 | 2256.3 | 2209.5 | 2203.1 | 2186.1 | 2205.3 | 2213.8 |
| 27.5° | 2725.8  | 2689.7 | 2579.2 | 2402.8 | 2256.3 | 2169.1 | 2141.5 | 2133.0 | 2160.6 | 2162.8 | 2196.8 |
| 30°   | 2759.8  | 2749.1 | 2587.7 | 2364.6 | 2145.8 | 2005.6 | 1988.6 | 2026.8 | 2056.5 | 2101.2 | 2103.3 |
| 32.5° | 2804.4  | 2808.6 | 2600.4 | 2275.4 | 2001.3 | 1861.1 | 1835.6 | 1882.3 | 1967.3 | 2003.4 | 2031.0 |
| 35°   | 2878.7  | 2900.0 | 2589.8 | 2164.9 | 1848.3 | 1714.5 | 1710.2 | 1723.0 | 1805.8 | 1869.6 | 1905.7 |
| 37.5° | 3008.3  | 3004.1 | 2587.7 | 2033.2 | 1727.2 | 1587.0 | 1553.0 | 1557.3 | 1612.5 | 1665.6 | 1659.3 |
| 40°   | 3182.5  | 3165.5 | 2581.3 | 1861.1 | 1570.0 | 1478.7 | 1421.3 | 1400.1 | 1395.8 | 1380.9 | 1385.2 |
| 42.5° | 3420.5  | 3386.5 | 2579.2 | 1686.9 | 1427.7 | 1330.0 | 1289.6 | 1234.4 | 1194.0 | 1117.5 | 1121.8 |
| 45°   | 3751.9  | 3692.4 | 2523.9 | 1523.3 | 1287.5 | 1206.7 | 1145.1 | 1104.8 | 1017.6 | 922.0  | 922.0  |
| 47.5° | 4263.9  | 4070.6 | 2526.1 | 1342.7 | 1151.5 | 1085.6 | 1043.1 | 973.0  | 879.6  | 803.1  | 794.6  |
| 50°   | 5018.1  | 4576.2 | 2453.8 | 1200.4 | 1041.0 | 996.4  | 951.8  | 871.1  | 781.8  | 728.7  | 735.1  |
| 52.5° | 5991.2  | 5330.4 | 2451.7 | 1072.9 | 953.9  | 922.0  | 873.2  | 800.9  | 735.1  | 701.1  | 688.3  |
| 55°   | 7151.2  | 6329.0 | 2528.2 | 968.8  | 864.7  | 847.7  | 826.4  | 767.0  | 703.2  | 673.5  | 671.4  |
| 57.5° | 8338.8  | 7304.1 | 2651.4 | 894.4  | 788.2  | 800.9  | 786.1  | 739.3  | 688.3  | 654.4  | 650.1  |
| 60°   | 9394.7  | 8077.5 | 2402.8 | 805.2  | 720.2  | 747.8  | 769.1  | 728.7  | 701.1  | 699.0  | 684.1  |
| 62.5° | 10191.4 | 8408.9 | 1827.1 | 737.2  | 684.1  | 735.1  | 792.4  | 817.9  | 805.2  | 822.2  | 824.3  |
| 65°   | 10482.4 | 8209.2 | 1257.7 | 701.1  | 656.5  | 764.8  | 892.3  | 883.8  | 809.4  | 777.6  | 794.6  |
| 67.5° | 10074.5 | 7399.7 | 932.7  | 658.6  | 637.4  | 826.4  | 949.7  | 843.4  | 730.8  | 726.6  | 713.8  |
| 70°   | 8663.8  | 6271.6 | 760.6  | 614.0  | 605.5  | 792.4  | 924.2  | 781.8  | 688.3  | 660.7  | 648.0  |
| 72°   | 6902.6  | 4884.3 | 667.1  | 582.1  | 554.5  | 707.5  | 864.7  | 733.0  | 652.2  | 618.2  | 603.4  |
| 72.5° | 6301.4  | 4527.4 | 654.4  | 567.2  | 543.9  | 688.3  | 834.9  | 718.1  | 643.7  | 614.0  | 590.6  |
| 75°   | 3456.6  | 2317.9 | 575.7  | 520.5  | 458.9  | 594.9  | 773.3  | 673.5  | 607.6  | 565.1  | 560.9  |
| 77.5° | 1285.3  | 898.7  | 497.1  | 461.0  | 397.3  | 514.1  | 703.2  | 639.5  | 552.4  | 499.3  | 488.6  |
| 80°   | 492.9   | 473.8  | 405.8  | 388.8  | 333.6  | 450.4  | 648.0  | 573.6  | 469.5  | 416.4  | 399.4  |
| 82.5° | 299.6   | 276.2  | 308.1  | 303.8  | 254.9  | 410.0  | 609.7  | 537.5  | 416.4  | 337.8  | 327.2  |
| 85°   | 163.6   | 163.6  | 214.6  | 206.1  | 178.5  | 327.2  | 461.0  | 356.9  | 263.4  | 216.7  | 221.0  |
| 87.5° | 72.2    | 85.0   | 114.7  | 108.4  | 97.7   | 184.8  | 225.2  | 189.1  | 131.7  | 89.2   | 95.6   |
| 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)