

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: P478567

Luminaire Tested: **IFLD-M-SA4B-740-U-T4W**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478567
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

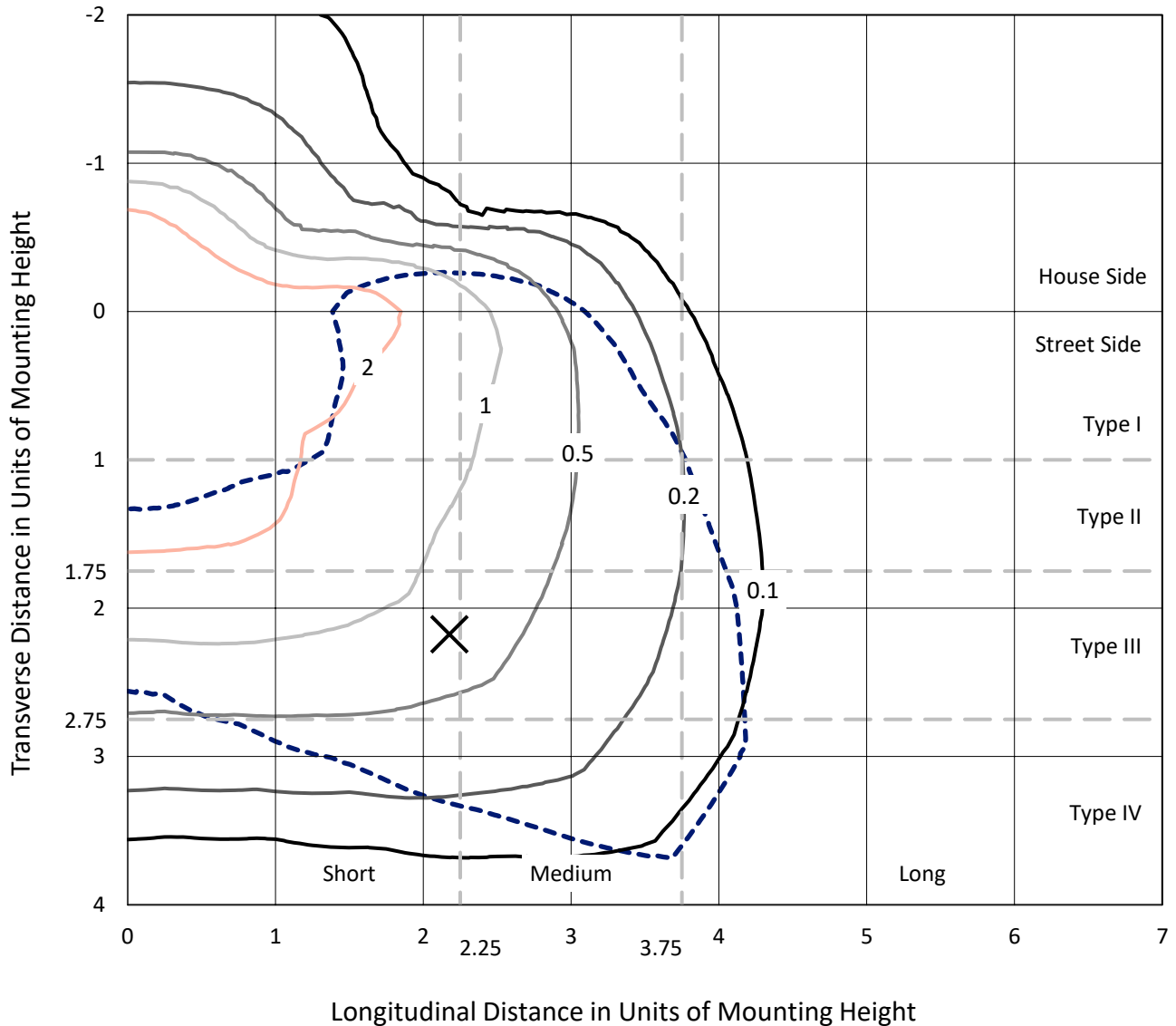
Lumens per Lamp: N/A
Luminaire Lumens: 23085.6 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P478567
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

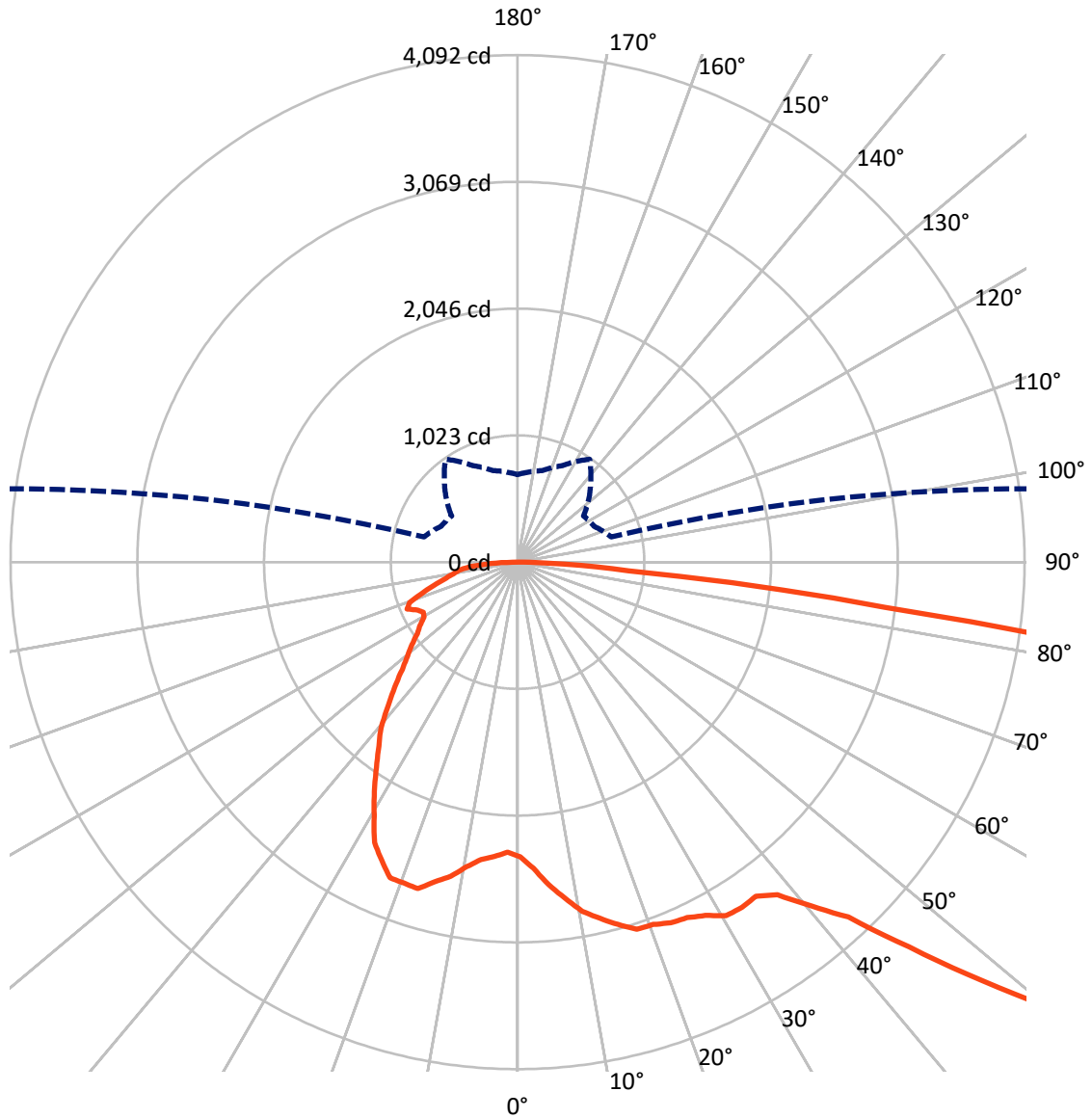
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P478567
CATALOG NUMBER: IFLD-M-SA4B-740-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478567

CATALOG NUMBER: IFLD-M-SA4B-740-U-T4W

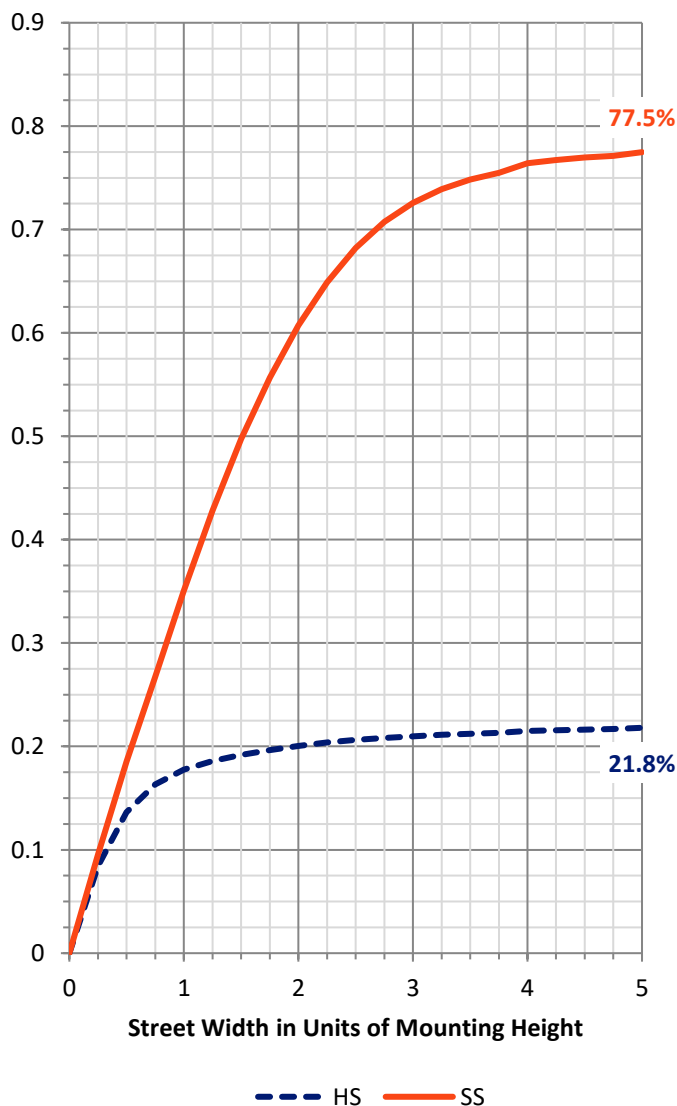
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5139.0 | 0.0 | 5139.0 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 17946.6 | 0.0 | 17946.6 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 23085.6 | 0.0 | 23085.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.3 | 1.1 |
| 10°-20° | 809.4 | 3.5 |
| 20°-30° | 1366.8 | 5.9 |
| 30°-40° | 1891.5 | 8.2 |
| 40°-50° | 2705.6 | 11.7 |
| 50°-60° | 4363.8 | 18.9 |
| 60°-70° | 6435.9 | 27.9 |
| 70°-80° | 4673.6 | 20.2 |
| 80°-90° | 595.8 | 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° | 23085.6 | 100.0 |
| 0°-180° | 23085.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P478567

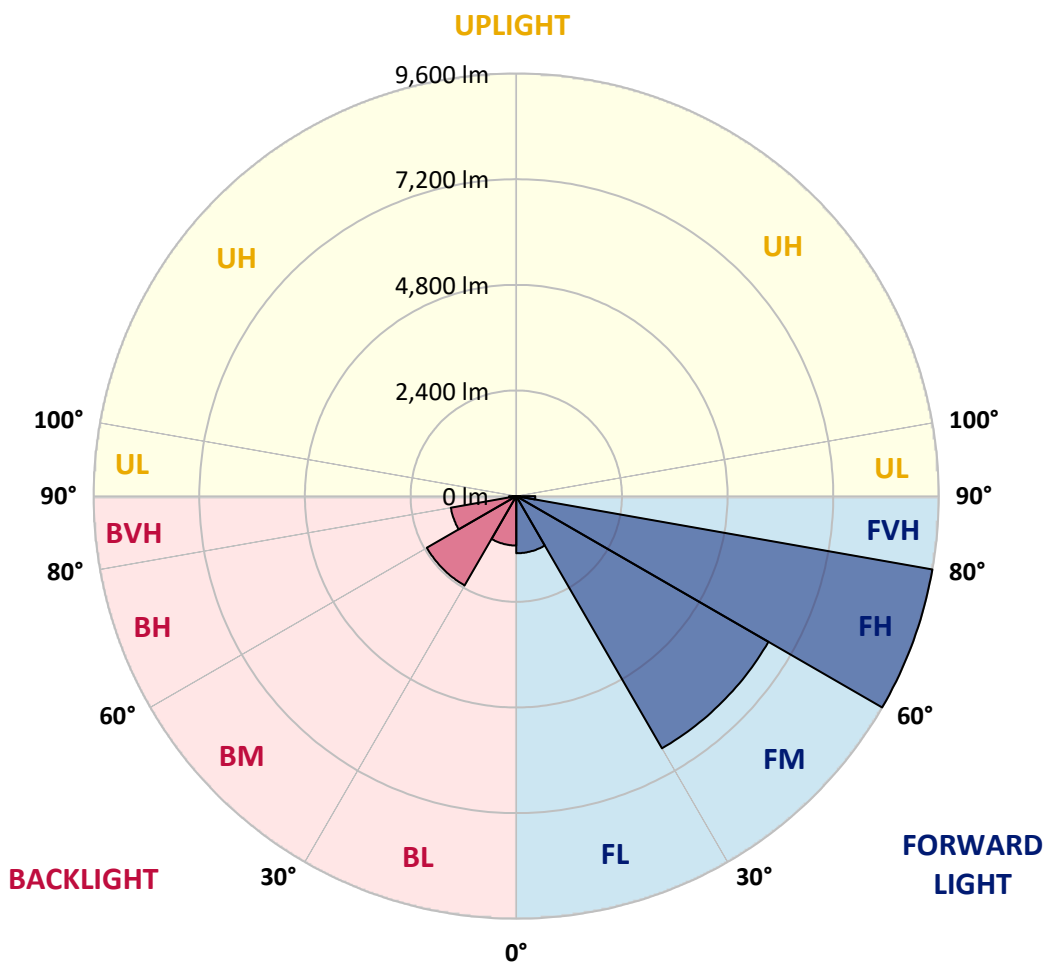
CATALOG NUMBER: IFLD-M-SA4B-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1297.4 | 5.6 | | | |
| FM (30°-60°) | 6615.5 | 28.7 | | | |
| FH (60°-80°) | 9600.0 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 433.6 | 1.9 | | | G3/500 |
| BL (0°-30°) | 1122.1 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 2345.3 | 10.2 | B2/2500 | | |
| BH (60°-80°) | 1509.5 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 162.1 | 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: P478567

CATALOG NUMBER: IFLD-M-SA4B-740-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 |
| 2.5° | 2504.4 | 2519.3 | 2504.4 | 2501.9 | 2477.0 | 2459.6 | 2474.5 | 2452.1 | 2427.2 | 2417.2 | 2394.8 |
| 5° | 2733.4 | 2735.9 | 2708.5 | 2711.0 | 2658.7 | 2603.9 | 2613.9 | 2546.7 | 2474.5 | 2447.1 | 2402.3 |
| 7.5° | 2967.4 | 2940.0 | 2900.2 | 2887.7 | 2805.6 | 2745.8 | 2738.4 | 2678.6 | 2566.6 | 2504.4 | 2442.1 |
| 10° | 3119.3 | 3129.2 | 3064.5 | 3009.7 | 2940.0 | 2867.8 | 2865.3 | 2753.3 | 2688.6 | 2596.5 | 2516.8 |
| 12.5° | 3253.7 | 3256.2 | 3201.4 | 3114.3 | 3027.1 | 2937.5 | 2950.0 | 2900.2 | 2790.6 | 2703.5 | 2623.9 |
| 15° | 3358.2 | 3343.3 | 3283.6 | 3203.9 | 3111.8 | 3042.1 | 3034.6 | 2992.3 | 2900.2 | 2828.0 | 2696.1 |
| 17.5° | 3388.1 | 3380.6 | 3320.9 | 3236.3 | 3146.6 | 3094.4 | 3114.3 | 3044.6 | 3007.2 | 2942.5 | 2815.5 |
| 20° | 3330.9 | 3313.4 | 3303.5 | 3208.9 | 3144.1 | 3139.2 | 3121.7 | 3136.7 | 3074.4 | 3014.7 | 2922.6 |
| 22.5° | 3226.3 | 3218.8 | 3213.9 | 3139.2 | 3109.3 | 3131.7 | 3161.6 | 3184.0 | 3174.0 | 3116.8 | 3012.2 |
| 25° | 3119.3 | 3154.1 | 3121.7 | 3086.9 | 3129.2 | 3186.5 | 3179.0 | 3251.2 | 3251.2 | 3233.8 | 3146.6 |
| 27.5° | 3193.9 | 3171.5 | 3146.6 | 3129.2 | 3144.1 | 3233.8 | 3228.8 | 3315.9 | 3348.3 | 3315.9 | 3216.3 |
| 30° | 3380.6 | 3358.2 | 3286.0 | 3208.9 | 3189.0 | 3286.0 | 3310.9 | 3388.1 | 3403.0 | 3323.4 | 3238.7 |
| 32.5° | 3731.7 | 3719.2 | 3604.7 | 3378.2 | 3256.2 | 3310.9 | 3323.4 | 3410.5 | 3398.1 | 3348.3 | 3313.4 |
| 35° | 4251.9 | 4209.6 | 4050.3 | 3666.9 | 3398.1 | 3343.3 | 3310.9 | 3380.6 | 3427.9 | 3403.0 | 3370.7 |
| 37.5° | 4822.0 | 4774.7 | 4578.1 | 4092.6 | 3654.5 | 3430.4 | 3405.5 | 3462.8 | 3517.6 | 3505.1 | 3437.9 |
| 40° | 5367.2 | 5367.2 | 5190.5 | 4625.4 | 4035.4 | 3642.0 | 3647.0 | 3582.3 | 3632.1 | 3609.7 | 3622.1 |
| 42.5° | 5904.9 | 5885.0 | 5812.8 | 5250.2 | 4443.6 | 3995.5 | 3915.9 | 3754.1 | 3843.7 | 3836.2 | 3853.6 |
| 45° | 6450.1 | 6435.2 | 6415.3 | 5832.7 | 5028.6 | 4473.5 | 4431.2 | 4139.9 | 4222.1 | 4187.2 | 4261.9 |
| 47.5° | 6885.8 | 6903.2 | 6903.2 | 6482.5 | 5653.5 | 5110.8 | 5048.6 | 4588.0 | 4744.8 | 4762.3 | 4779.7 |
| 50° | 7256.7 | 7264.2 | 7256.7 | 7102.3 | 6350.5 | 5840.2 | 5713.2 | 5245.2 | 5402.1 | 5539.0 | 5698.3 |
| 52.5° | 7769.5 | 7779.5 | 7744.6 | 7684.9 | 7296.5 | 6606.9 | 6465.0 | 5944.8 | 6265.9 | 6410.3 | 6696.6 |
| 55° | 8401.8 | 8327.1 | 8262.4 | 8307.2 | 8205.2 | 7450.9 | 7304.0 | 6666.7 | 7149.6 | 7341.3 | 7913.9 |
| 57.5° | 8518.8 | 8583.5 | 8747.9 | 9103.8 | 9250.7 | 8272.4 | 8187.7 | 7552.9 | 8147.9 | 8314.7 | 9270.6 |
| 60° | 8932.1 | 8825.0 | 9228.3 | 10000.0 | 10164.3 | 9342.8 | 9255.7 | 8523.8 | 9141.2 | 9315.4 | 10522.8 |
| 62.5° | 9203.4 | 9198.4 | 9795.9 | 10712.0 | 11085.4 | 10453.1 | 10276.4 | 9785.9 | 10214.1 | 10383.4 | 11887.0 |
| 65° | 9123.8 | 9195.9 | 10256.4 | 11130.2 | 11854.7 | 11715.2 | 11613.2 | 10871.3 | 11436.4 | 11421.5 | 12775.7 |
| 67.5° | 8396.8 | 8601.0 | 9965.2 | 11431.5 | 12999.8 | 13253.7 | 13221.4 | 12397.4 | 12429.7 | 12113.6 | 13171.6 |
| 70° | 7388.6 | 7318.9 | 8732.9 | 11117.8 | 13572.4 | 15078.5 | 15071.0 | 13532.5 | 13323.4 | 12265.4 | 12036.4 |
| 72° | 5675.9 | 5598.7 | 6761.3 | 9547.0 | 13271.1 | 15807.9 | 16031.9 | 14319.2 | 13313.5 | 11635.6 | 9942.8 |
| 72.5° | 5153.1 | 5085.9 | 6243.5 | 8986.8 | 12937.6 | 15997.1 | 15892.5 | 14349.1 | 13208.9 | 11339.3 | 9288.1 |
| 75° | 2372.4 | 2295.3 | 3119.3 | 5501.6 | 10092.1 | 14174.8 | 14530.8 | 13428.0 | 11536.0 | 9026.7 | 5563.9 |
| 77.5° | 707.0 | 684.6 | 1003.2 | 2220.6 | 5865.1 | 10443.2 | 10580.1 | 10132.0 | 8053.3 | 4944.0 | 2063.7 |
| 80° | 393.3 | 395.8 | 517.8 | 831.5 | 2579.0 | 6036.9 | 6529.8 | 6258.4 | 3950.7 | 1633.1 | 687.1 |
| 82.5° | 219.1 | 231.5 | 323.6 | 492.9 | 1185.0 | 2770.7 | 2982.3 | 2875.3 | 1428.9 | 766.7 | 375.9 |
| 85° | 114.5 | 119.5 | 169.3 | 263.9 | 672.1 | 876.3 | 901.2 | 965.9 | 741.8 | 522.8 | 201.6 |
| 87.5° | 44.8 | 44.8 | 62.2 | 109.5 | 248.9 | 271.3 | 244.0 | 296.2 | 425.7 | 338.6 | 99.6 |
| 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: P478567
 CATALOG NUMBER: IFLD-M-SA4B-740-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 | 2377.4 |
| 2.5° | 2414.7 | 2394.8 | 2392.3 | 2360.0 | 2369.9 | 2342.6 | 2345.0 | 2340.1 | 2342.6 | 2337.6 | 2325.1 |
| 5° | 2402.3 | 2387.4 | 2345.0 | 2372.4 | 2347.5 | 2382.4 | 2409.8 | 2399.8 | 2407.3 | 2404.8 | 2407.3 |
| 7.5° | 2419.7 | 2399.8 | 2394.8 | 2379.9 | 2402.3 | 2417.2 | 2439.6 | 2501.9 | 2496.9 | 2504.4 | 2519.3 |
| 10° | 2472.0 | 2449.6 | 2434.7 | 2457.1 | 2444.6 | 2491.9 | 2516.8 | 2549.2 | 2606.4 | 2608.9 | 2579.0 |
| 12.5° | 2574.1 | 2559.1 | 2529.3 | 2534.2 | 2576.6 | 2591.5 | 2606.4 | 2626.3 | 2663.7 | 2656.2 | 2683.6 |
| 15° | 2691.1 | 2658.7 | 2641.3 | 2636.3 | 2646.3 | 2663.7 | 2661.2 | 2681.1 | 2701.0 | 2718.5 | 2711.0 |
| 17.5° | 2775.7 | 2733.4 | 2738.4 | 2763.3 | 2760.8 | 2755.8 | 2723.4 | 2713.5 | 2723.4 | 2733.4 | 2728.4 |
| 20° | 2862.8 | 2867.8 | 2830.5 | 2808.1 | 2798.1 | 2748.3 | 2723.4 | 2693.6 | 2663.7 | 2678.6 | 2701.0 |
| 22.5° | 2972.4 | 2950.0 | 2895.2 | 2828.0 | 2778.2 | 2748.3 | 2671.2 | 2618.9 | 2618.9 | 2633.8 | 2626.3 |
| 25° | 3096.8 | 3049.5 | 2955.0 | 2833.0 | 2770.7 | 2643.8 | 2589.0 | 2581.5 | 2561.6 | 2584.0 | 2594.0 |
| 27.5° | 3193.9 | 3151.6 | 3022.2 | 2815.5 | 2643.8 | 2541.7 | 2509.3 | 2499.4 | 2531.7 | 2534.2 | 2574.1 |
| 30° | 3233.8 | 3221.3 | 3032.1 | 2770.7 | 2514.3 | 2350.0 | 2330.1 | 2374.9 | 2409.8 | 2462.0 | 2464.5 |
| 32.5° | 3286.0 | 3291.0 | 3047.1 | 2666.2 | 2345.0 | 2180.7 | 2150.9 | 2205.6 | 2305.2 | 2347.5 | 2379.9 |
| 35° | 3373.2 | 3398.1 | 3034.6 | 2536.7 | 2165.8 | 2009.0 | 2004.0 | 2018.9 | 2116.0 | 2190.7 | 2233.0 |
| 37.5° | 3525.0 | 3520.1 | 3032.1 | 2382.4 | 2023.9 | 1859.6 | 1819.8 | 1824.8 | 1889.5 | 1951.7 | 1944.2 |
| 40° | 3729.2 | 3709.2 | 3024.7 | 2180.7 | 1839.7 | 1732.6 | 1665.4 | 1640.5 | 1635.6 | 1618.1 | 1623.1 |
| 42.5° | 4008.0 | 3968.1 | 3022.2 | 1976.6 | 1672.9 | 1558.4 | 1511.1 | 1446.4 | 1399.1 | 1309.4 | 1314.4 |
| 45° | 4396.3 | 4326.6 | 2957.4 | 1784.9 | 1508.6 | 1414.0 | 1341.8 | 1294.5 | 1192.4 | 1080.4 | 1080.4 |
| 47.5° | 4996.3 | 4769.7 | 2959.9 | 1573.3 | 1349.3 | 1272.1 | 1222.3 | 1140.2 | 1030.6 | 941.0 | 931.0 |
| 50° | 5880.0 | 5362.2 | 2875.3 | 1406.5 | 1219.8 | 1167.5 | 1115.3 | 1020.7 | 916.1 | 853.9 | 861.3 |
| 52.5° | 7020.2 | 6246.0 | 2872.8 | 1257.2 | 1117.8 | 1080.4 | 1023.2 | 938.5 | 861.3 | 821.5 | 806.6 |
| 55° | 8379.4 | 7416.0 | 2962.4 | 1135.2 | 1013.2 | 993.3 | 968.4 | 898.7 | 824.0 | 789.1 | 786.7 |
| 57.5° | 9771.0 | 8558.7 | 3106.8 | 1048.0 | 923.6 | 938.5 | 921.1 | 866.3 | 806.6 | 766.7 | 761.8 |
| 60° | 11008.3 | 9464.8 | 2815.5 | 943.5 | 843.9 | 876.3 | 901.2 | 853.9 | 821.5 | 819.0 | 801.6 |
| 62.5° | 11941.8 | 9853.2 | 2140.9 | 863.8 | 801.6 | 861.3 | 928.6 | 958.4 | 943.5 | 963.4 | 965.9 |
| 65° | 12282.8 | 9619.2 | 1473.7 | 821.5 | 769.2 | 896.2 | 1045.6 | 1035.6 | 948.5 | 911.1 | 931.0 |
| 67.5° | 11804.9 | 8670.7 | 1092.9 | 771.7 | 746.8 | 968.4 | 1112.8 | 988.3 | 856.4 | 851.4 | 836.4 |
| 70° | 10151.9 | 7348.8 | 891.2 | 719.4 | 709.5 | 928.6 | 1082.9 | 916.1 | 806.6 | 774.2 | 759.3 |
| 72° | 8088.2 | 5723.2 | 781.7 | 682.1 | 649.7 | 829.0 | 1013.2 | 858.9 | 764.3 | 724.4 | 707.0 |
| 72.5° | 7383.6 | 5305.0 | 766.7 | 664.7 | 637.3 | 806.6 | 978.3 | 841.4 | 754.3 | 719.4 | 692.1 |
| 75° | 4050.3 | 2716.0 | 674.6 | 609.9 | 537.7 | 697.0 | 906.2 | 789.1 | 712.0 | 662.2 | 657.2 |
| 77.5° | 1506.1 | 1053.0 | 582.5 | 540.2 | 465.5 | 602.4 | 824.0 | 749.3 | 647.3 | 585.0 | 572.6 |
| 80° | 577.5 | 555.1 | 475.5 | 455.6 | 390.8 | 527.8 | 759.3 | 672.1 | 550.2 | 487.9 | 468.0 |
| 82.5° | 351.0 | 323.6 | 361.0 | 356.0 | 298.7 | 480.5 | 714.5 | 629.8 | 487.9 | 395.8 | 383.4 |
| 85° | 191.7 | 191.7 | 251.4 | 241.5 | 209.1 | 383.4 | 540.2 | 418.2 | 308.7 | 253.9 | 258.9 |
| 87.5° | 84.6 | 99.6 | 134.4 | 127.0 | 114.5 | 216.6 | 263.9 | 221.6 | 154.3 | 104.6 | 112.0 |
| 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)