

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: P636840

Luminaire Tested: **IFLD-M-SA4B-950-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636840  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-950-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12694.5 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

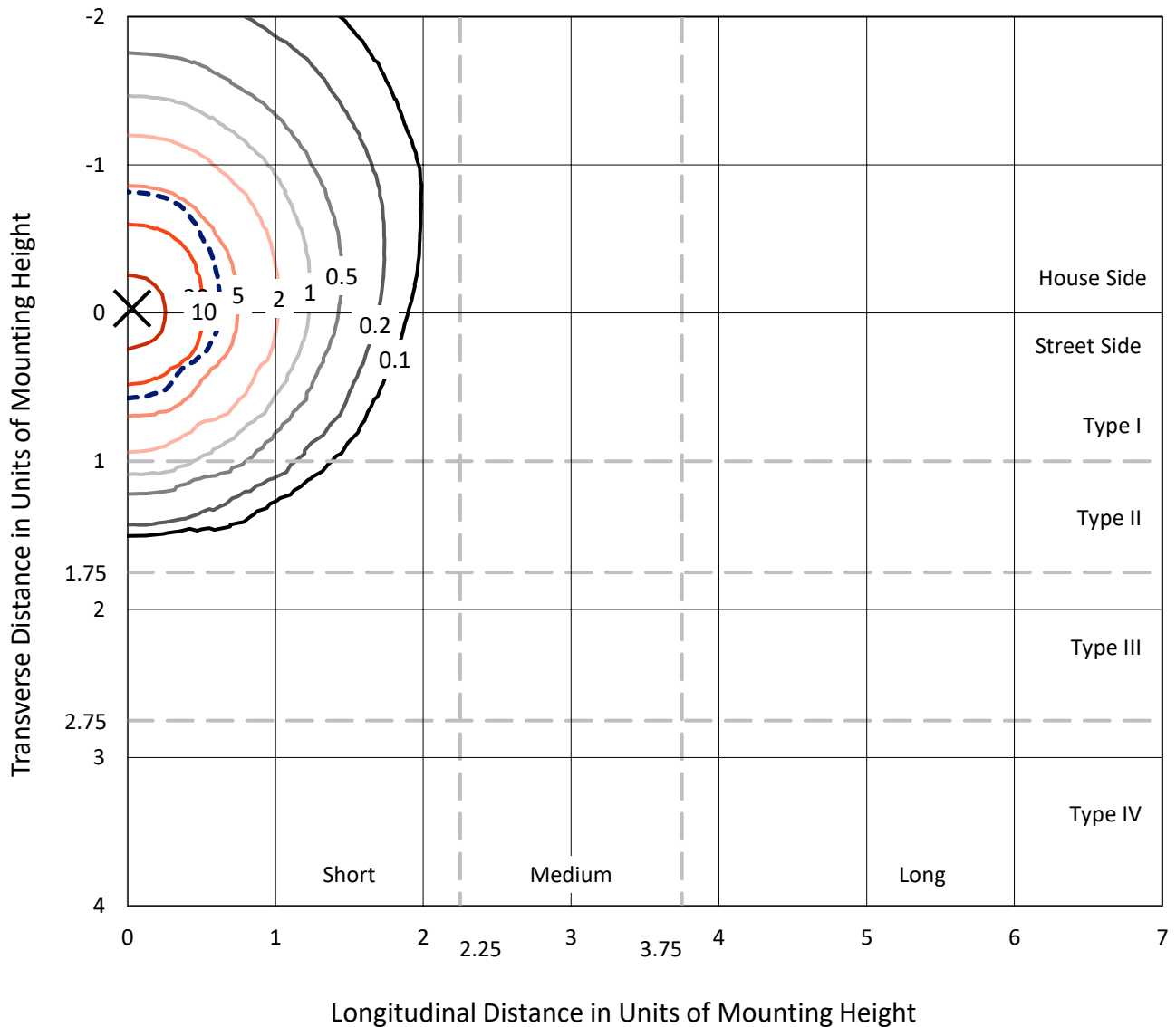
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

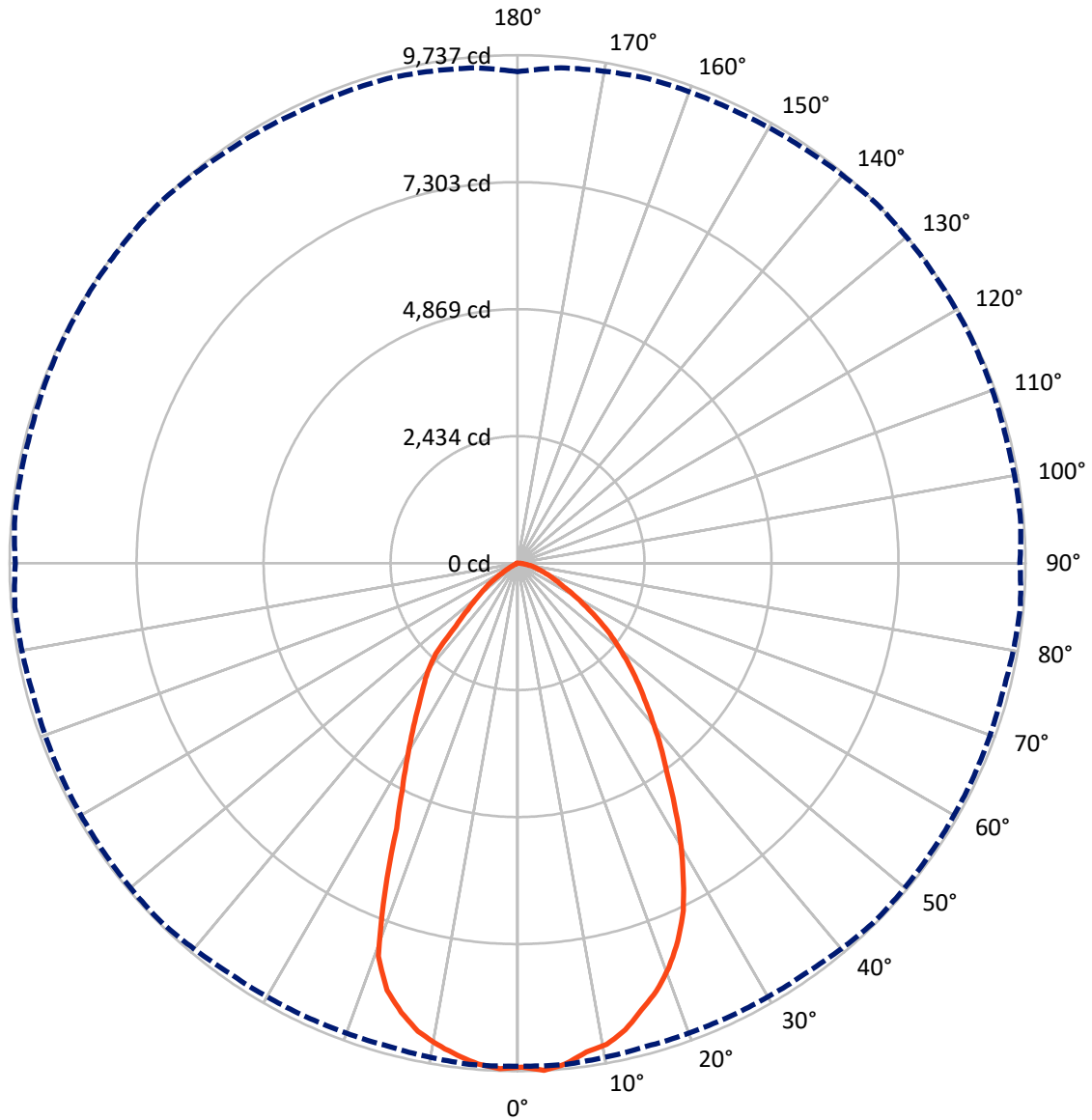
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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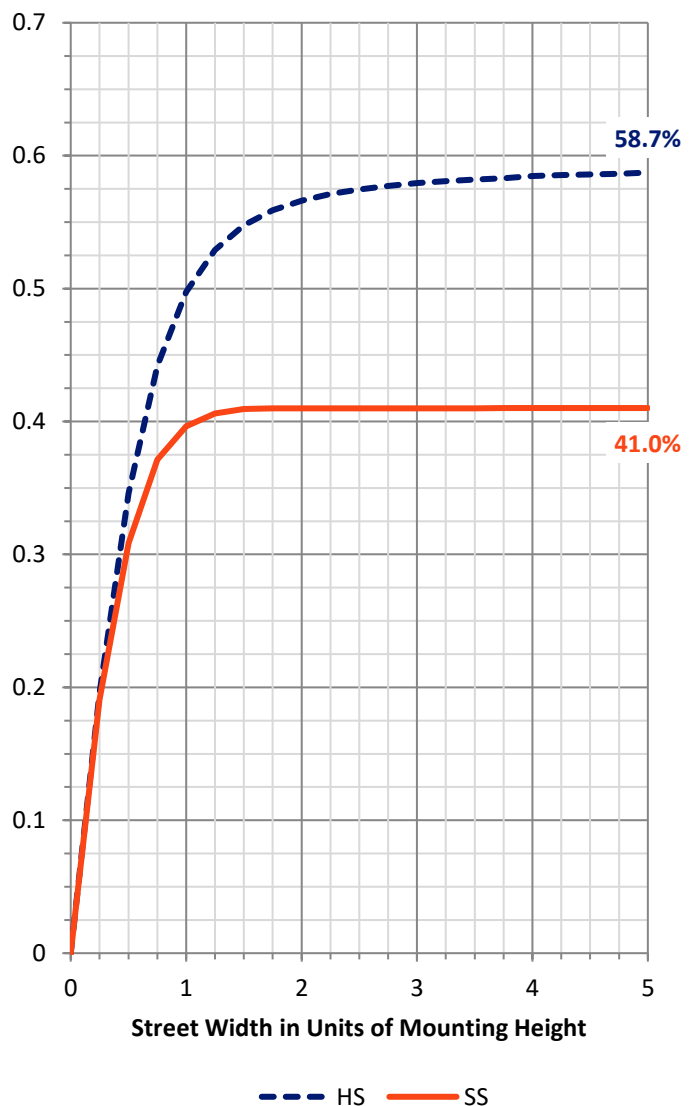
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7518.3   | 0.0    | 7518.3  |
|                    | % Fixture | 59.2     | 0.0    | 59.2    |
| <b>Street Side</b> | Lumens    | 5176.2   | 0.0    | 5176.2  |
|                    | % Fixture | 40.8     | 0.0    | 40.8    |
| <b>Total</b>       | Lumens    | 12694.5  | 0.0    | 12694.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 906.0   | 7.1       |
| 10°-20°   | 2429.5  | 19.1      |
| 20°-30°   | 2962.9  | 23.3      |
| 30°-40°   | 2705.1  | 21.3      |
| 40°-50°   | 1954.9  | 15.4      |
| 50°-60°   | 1067.4  | 8.4       |
| 60°-70°   | 441.3   | 3.5       |
| 70°-80°   | 178.7   | 1.4       |
| 80°-90°   | 48.6    | 0.4       |
| 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°    | 12694.5 | 100.0     |
| 0°-180°   | 12694.5 | 100.0     |



REPORT NUMBER: P636840

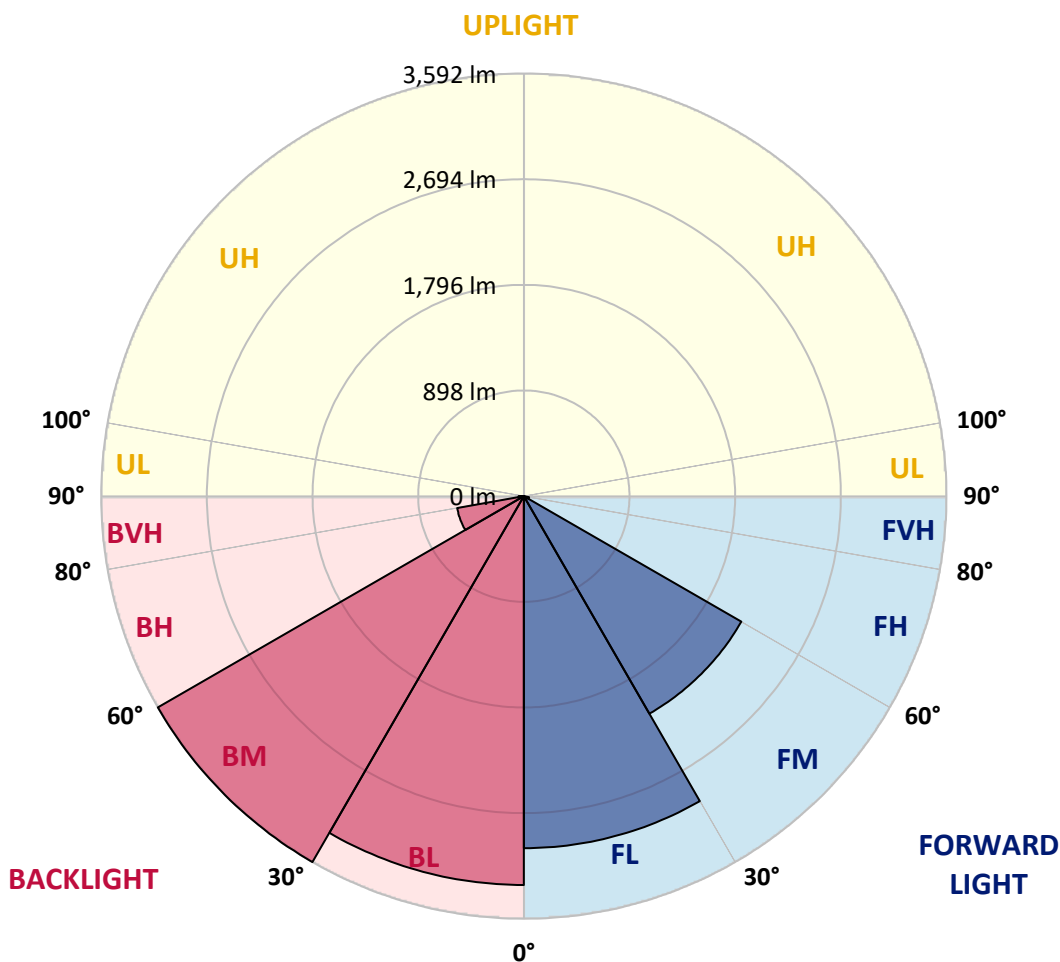
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2992.5 | 23.6      |                         |      |         |
| FM (30°-60°)   | 2135.0 | 16.8      |                         |      |         |
| FH (60°-80°)   | 44.7   | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 3.9    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 3305.8 | 26.0      | B4/5000                 |      |         |
| BM (30°-60°)   | 3592.4 | 28.3      | B3/5000                 |      |         |
| BH (60°-80°)   | 575.3  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 44.7   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 |
| 2.5°  | 9642.6 | 9655.1 | 9587.1 | 9594.3 | 9606.8 | 9698.0 | 9674.7 | 9653.3 | 9622.9 | 9674.7 |
| 5°    | 9630.0 | 9637.2 | 9565.7 | 9540.7 | 9551.4 | 9633.6 | 9558.5 | 9558.5 | 9551.4 | 9542.5 |
| 7.5°  | 9533.5 | 9537.1 | 9481.7 | 9437.0 | 9465.6 | 9503.1 | 9447.7 | 9474.5 | 9435.2 | 9465.6 |
| 10°   | 9388.7 | 9365.5 | 9299.3 | 9286.8 | 9319.0 | 9354.7 | 9317.2 | 9342.2 | 9306.5 | 9329.7 |
| 12.5° | 9176.0 | 9140.2 | 9086.6 | 9070.5 | 9125.9 | 9174.2 | 9143.8 | 9129.5 | 9083.0 | 9140.2 |
| 15°   | 8355.5 | 8328.6 | 8450.2 | 8662.9 | 8854.2 | 8895.3 | 8863.1 | 8877.4 | 8780.9 | 8797.0 |
| 17.5° | 6877.1 | 6827.0 | 6957.5 | 7461.6 | 8180.3 | 8559.2 | 8530.6 | 8437.7 | 8294.7 | 8326.9 |
| 20°   | 6249.6 | 6235.3 | 6221.0 | 6340.8 | 6843.1 | 7992.6 | 8031.9 | 7795.9 | 7592.1 | 7547.4 |
| 22.5° | 5895.7 | 5890.3 | 5876.0 | 5902.8 | 6035.1 | 6773.4 | 7223.9 | 7005.8 | 6869.9 | 6857.4 |
| 25°   | 5572.1 | 5563.2 | 5520.2 | 5554.2 | 5554.2 | 5597.1 | 6174.5 | 6306.8 | 6187.0 | 6172.7 |
| 27.5° | 5243.2 | 5227.1 | 5219.9 | 5236.0 | 5153.8 | 4864.2 | 5010.8 | 5656.1 | 5593.5 | 5597.1 |
| 30°   | 4887.4 | 4882.1 | 4862.4 | 4896.4 | 4642.5 | 4283.2 | 4190.2 | 5066.2 | 5078.7 | 5075.1 |
| 32.5° | 4358.3 | 4381.5 | 4470.9 | 4508.4 | 4090.1 | 3793.4 | 3637.9 | 4383.3 | 4638.9 | 4633.6 |
| 35°   | 3165.9 | 3165.9 | 3457.3 | 3999.0 | 3584.2 | 3360.8 | 3276.8 | 3716.5 | 4204.5 | 4222.4 |
| 37.5° | 2602.8 | 2611.8 | 2669.0 | 2915.7 | 3092.6 | 3014.0 | 2988.9 | 3128.4 | 3646.8 | 3675.4 |
| 40°   | 2341.8 | 2341.8 | 2341.8 | 2239.9 | 2234.6 | 2715.4 | 2701.1 | 2656.4 | 3149.8 | 3212.4 |
| 42.5° | 2104.1 | 2109.4 | 2113.0 | 1855.6 | 1712.6 | 2347.2 | 2315.0 | 2247.1 | 2704.7 | 2778.0 |
| 45°   | 1859.2 | 1868.1 | 1878.8 | 1551.7 | 1489.1 | 1689.3 | 1959.3 | 1884.2 | 2264.9 | 2359.7 |
| 47.5° | 1135.2 | 1149.5 | 1392.6 | 1315.7 | 1322.9 | 1303.2 | 1598.2 | 1585.6 | 1857.4 | 1991.4 |
| 50°   | 766.9  | 772.3  | 795.5  | 834.8  | 1135.2 | 1024.3 | 1131.6 | 1312.1 | 1410.5 | 1614.2 |
| 52.5° | 643.6  | 652.5  | 595.3  | 541.7  | 745.4  | 800.9  | 790.1  | 974.3  | 1013.6 | 1265.7 |
| 55°   | 452.3  | 480.9  | 454.1  | 448.7  | 423.7  | 622.1  | 598.9  | 749.0  | 774.1  | 961.8  |
| 57.5° | 46.5   | 53.6   | 93.0   | 334.3  | 277.1  | 352.2  | 427.2  | 548.8  | 573.8  | 709.7  |
| 60°   | 3.6    | 3.6    | 8.9    | 46.5   | 202.0  | 210.9  | 295.0  | 337.9  | 386.1  | 495.2  |
| 62.5° | 0.0    | 1.8    | 3.6    | 7.2    | 32.2   | 112.6  | 148.4  | 177.0  | 232.4  | 320.0  |
| 65°   | 0.0    | 0.0    | 1.8    | 5.4    | 7.2    | 42.9   | 57.2   | 93.0   | 126.9  | 198.4  |
| 67.5° | 0.0    | 0.0    | 1.8    | 3.6    | 5.4    | 10.7   | 19.7   | 34.0   | 67.9   | 112.6  |
| 70°   | 0.0    | 0.0    | 1.8    | 3.6    | 5.4    | 8.9    | 14.3   | 21.5   | 30.4   | 60.8   |
| 72.5° | 0.0    | 0.0    | 1.8    | 1.8    | 3.6    | 8.9    | 10.7   | 14.3   | 21.5   | 30.4   |
| 75°   | 0.0    | 0.0    | 1.8    | 1.8    | 5.4    | 10.7   | 8.9    | 10.7   | 14.3   | 19.7   |
| 77.5° | 0.0    | 0.0    | 1.8    | 3.6    | 5.4    | 10.7   | 8.9    | 10.7   | 10.7   | 12.5   |
| 80°   | 0.0    | 0.0    | 1.8    | 3.6    | 7.2    | 12.5   | 10.7   | 10.7   | 8.9    | 8.9    |
| 82.5° | 0.0    | 0.0    | 1.8    | 5.4    | 7.2    | 16.1   | 16.1   | 14.3   | 7.2    | 5.4    |
| 85°   | 0.0    | 0.0    | 3.6    | 7.2    | 10.7   | 17.9   | 17.9   | 14.3   | 5.4    | 3.6    |
| 87.5° | 0.0    | 0.0    | 3.6    | 5.4    | 8.9    | 12.5   | 17.9   | 14.3   | 5.4    | 1.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P636840

CATALOG NUMBER: IFLD-M-SA4B-950-U-77-VI

**CANDELA DISTRIBUTION (continued):**

| 90°    |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9660.4 | 0°    | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 | 9660.4 |
| 9630.0 | 2.5°  | 9678.3 | 9667.6 | 9703.3 | 9717.6 | 9737.3 | 9662.2 | 9615.7 | 9617.5 | 9531.7 |
| 9521.0 | 5°    | 9578.2 | 9580.0 | 9626.5 | 9622.9 | 9642.6 | 9601.4 | 9583.6 | 9553.2 | 9478.1 |
| 9383.4 | 7.5°  | 9451.3 | 9435.2 | 9479.9 | 9513.9 | 9463.8 | 9492.4 | 9451.3 | 9465.6 | 9420.9 |
| 9261.8 | 10°   | 9353.0 | 9315.4 | 9356.5 | 9379.8 | 9381.6 | 9353.0 | 9313.6 | 9276.1 | 9260.0 |
| 9072.3 | 12.5° | 9134.9 | 9086.6 | 9156.3 | 9188.5 | 9183.1 | 9127.7 | 9083.0 | 9092.0 | 9040.1 |
| 8739.8 | 15°   | 8834.5 | 8836.3 | 8886.4 | 8916.8 | 8888.2 | 8875.7 | 8879.2 | 8857.8 | 8813.1 |
| 8280.4 | 17.5° | 8375.1 | 8401.9 | 8534.2 | 8607.5 | 8623.6 | 8598.6 | 8586.1 | 8561.0 | 8516.3 |
| 7547.4 | 20°   | 7610.0 | 7770.9 | 8006.9 | 8233.9 | 8278.6 | 8271.4 | 8226.7 | 8216.0 | 8191.0 |
| 6821.7 | 22.5° | 6937.9 | 7057.6 | 7331.1 | 7685.1 | 7867.4 | 7885.3 | 7831.7 | 7815.6 | 7788.8 |
| 6172.7 | 25°   | 6242.5 | 6371.2 | 6617.9 | 7002.2 | 7379.4 | 7456.3 | 7447.3 | 7399.1 | 7370.5 |
| 5597.1 | 27.5° | 5656.1 | 5784.8 | 6008.3 | 6355.1 | 6759.1 | 7005.8 | 7029.0 | 6952.2 | 6950.4 |
| 5084.1 | 30°   | 5127.0 | 5303.9 | 5473.8 | 5756.2 | 6147.7 | 6517.8 | 6557.1 | 6503.5 | 6508.8 |
| 4613.9 | 32.5° | 4712.2 | 4858.8 | 5003.6 | 5193.1 | 5518.5 | 5949.3 | 6103.0 | 6053.0 | 6033.3 |
| 4222.4 | 35°   | 4288.6 | 4388.7 | 4537.0 | 4710.4 | 4932.1 | 5359.4 | 5625.7 | 5588.2 | 5568.5 |
| 3693.3 | 37.5° | 3805.9 | 3977.5 | 4084.8 | 4279.6 | 4453.0 | 4792.7 | 5168.1 | 5162.7 | 5121.6 |
| 3242.8 | 40°   | 3310.7 | 3491.3 | 3653.9 | 3850.6 | 3984.7 | 4254.6 | 4671.1 | 4669.3 | 4674.7 |
| 2776.2 | 42.5° | 2862.0 | 3028.3 | 3224.9 | 3439.4 | 3568.1 | 3764.8 | 4211.7 | 4236.7 | 4267.1 |
| 2391.9 | 45°   | 2456.2 | 2606.4 | 2788.7 | 3049.7 | 3205.2 | 3317.9 | 3714.7 | 3829.1 | 3827.3 |
| 2048.6 | 47.5° | 2091.5 | 2232.8 | 2386.5 | 2640.4 | 2838.8 | 2940.7 | 3269.6 | 3432.3 | 3421.6 |
| 1680.4 | 50°   | 1755.5 | 1880.6 | 2041.5 | 2225.6 | 2492.0 | 2581.4 | 2826.3 | 3040.8 | 3024.7 |
| 1338.9 | 52.5° | 1412.2 | 1585.6 | 1721.5 | 1889.5 | 2170.2 | 2257.8 | 2447.3 | 2656.4 | 2643.9 |
| 1004.7 | 55°   | 1101.2 | 1269.2 | 1433.7 | 1578.5 | 1814.5 | 1945.0 | 2080.8 | 2295.3 | 2291.8 |
| 786.6  | 57.5° | 833.0  | 1017.2 | 1172.7 | 1310.3 | 1498.0 | 1658.9 | 1768.0 | 1962.8 | 1987.9 |
| 538.1  | 60°   | 616.7  | 758.0  | 926.0  | 1079.7 | 1228.1 | 1394.4 | 1467.7 | 1658.9 | 1669.7 |
| 368.3  | 62.5° | 420.1  | 575.6  | 740.1  | 879.5  | 990.4  | 1162.0 | 1228.1 | 1385.4 | 1405.1 |
| 236.0  | 65°   | 291.4  | 391.5  | 579.2  | 679.3  | 815.2  | 961.8  | 1027.9 | 1153.0 | 1192.4 |
| 135.9  | 67.5° | 193.1  | 278.9  | 452.3  | 543.4  | 677.5  | 777.6  | 861.6  | 963.5  | 1006.4 |
| 85.8   | 70°   | 105.5  | 205.6  | 323.6  | 429.0  | 545.2  | 641.8  | 724.0  | 806.2  | 843.8  |
| 39.3   | 72.5° | 71.5   | 137.6  | 225.2  | 339.7  | 439.8  | 534.5  | 607.8  | 668.6  | 670.4  |
| 23.2   | 75°   | 35.8   | 93.0   | 171.6  | 262.8  | 343.2  | 436.2  | 502.3  | 538.1  | 495.2  |
| 14.3   | 77.5° | 21.5   | 67.9   | 139.4  | 210.9  | 278.9  | 352.2  | 389.7  | 409.4  | 339.7  |
| 10.7   | 80°   | 12.5   | 48.3   | 109.0  | 168.0  | 193.1  | 259.2  | 295.0  | 300.3  | 227.0  |
| 7.2    | 82.5° | 8.9    | 35.8   | 85.8   | 123.3  | 118.0  | 182.3  | 221.7  | 214.5  | 144.8  |
| 5.4    | 85°   | 5.4    | 25.0   | 53.6   | 76.9   | 71.5   | 119.8  | 128.7  | 132.3  | 84.0   |
| 3.6    | 87.5° | 3.6    | 14.3   | 28.6   | 41.1   | 34.0   | 51.8   | 51.8   | 62.6   | 41.1   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





| 180°   |
|--------|
| 9660.4 |
| 9420.9 |
| 9460.2 |
| 9345.8 |
| 9188.5 |
| 8995.4 |
| 8768.4 |
| 8496.7 |
| 8133.8 |
| 7781.6 |
| 7340.1 |
| 6946.8 |
| 6482.0 |
| 6035.1 |
| 5541.7 |
| 5155.6 |
| 4674.7 |
| 4251.0 |
| 3830.9 |
| 3425.1 |
| 3039.0 |
| 2670.7 |
| 2300.7 |
| 1977.1 |
| 1685.7 |
| 1408.7 |
| 1183.4 |
| 1001.1 |
| 829.5  |
| 654.3  |
| 463.0  |
| 327.1  |
| 212.7  |
| 134.1  |
| 76.9   |
| 35.8   |
| 0.0    |

(END OF REPORT)