

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: P484583

Luminaire Tested: **IFLD-L-SA8B-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484583  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

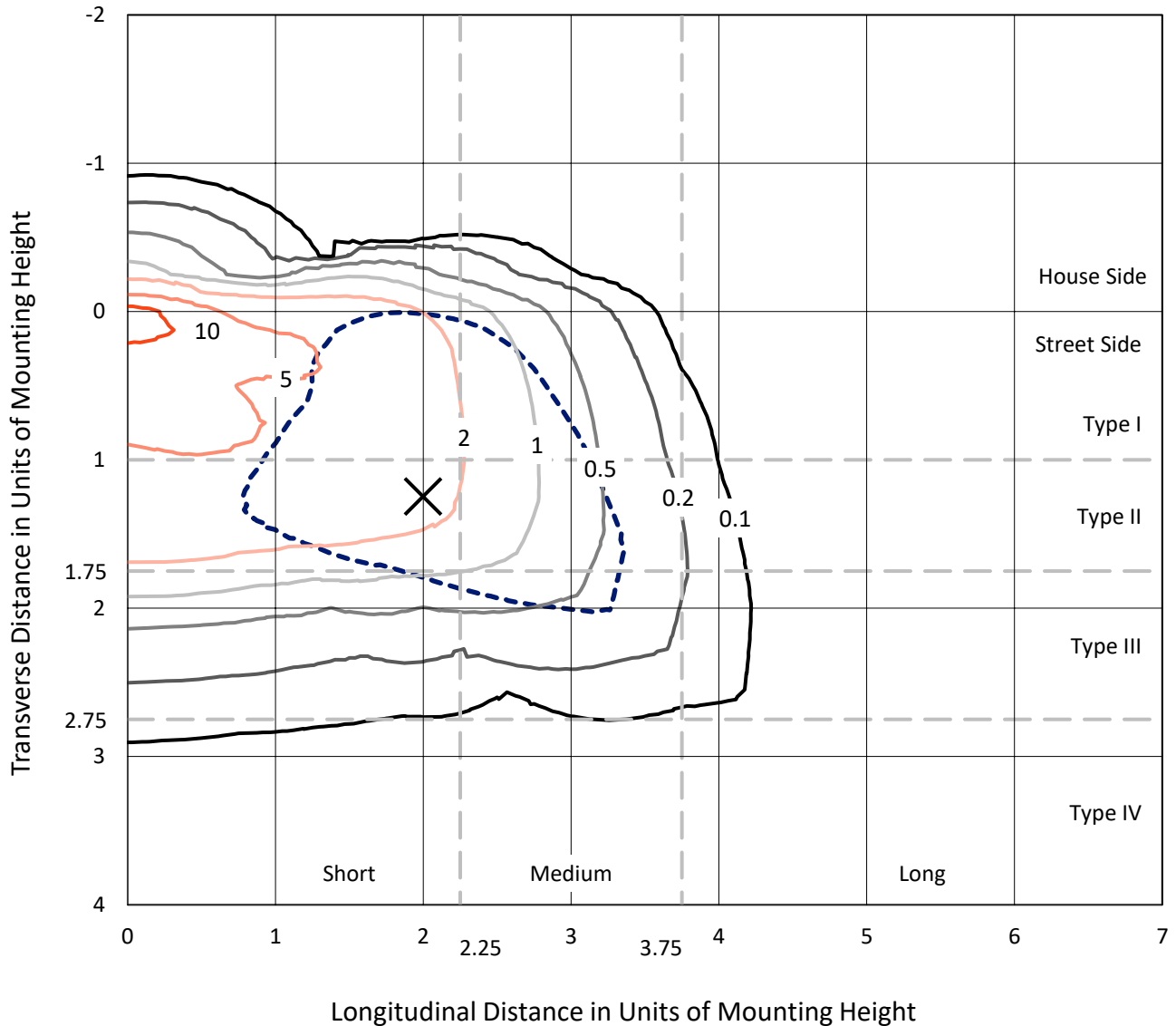
Lumens per Lamp: N/A  
Luminaire Lumens: 27045.1 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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: P484583  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

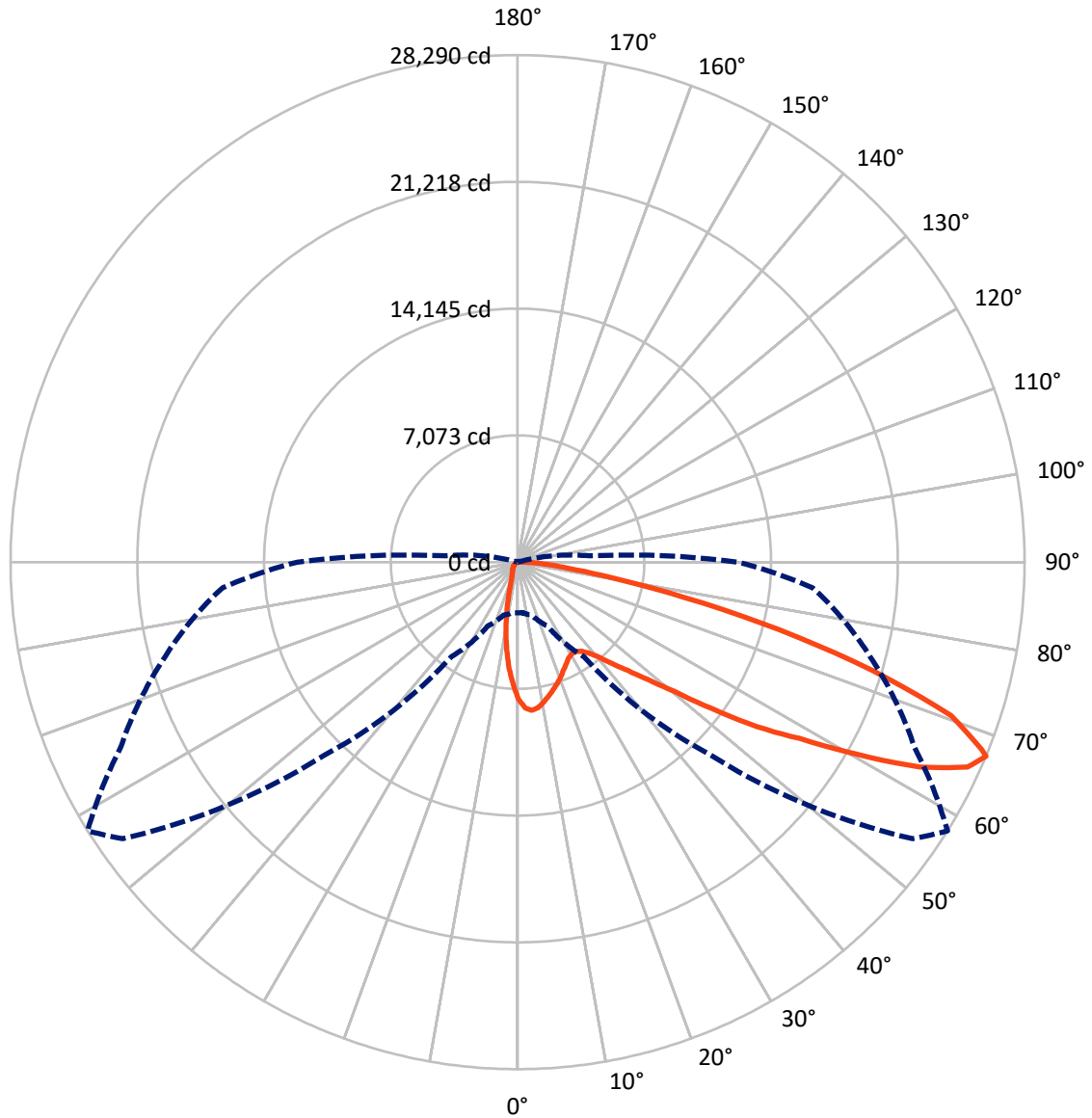
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P484583  
CATALOG NUMBER: IFLD-L-SA8B-830-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484583  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-SL3-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2235.5   | 0.0    | 2235.5  |
|                    | % Fixture | 8.3      | 0.0    | 8.3     |
| <b>Street Side</b> | Lumens    | 24809.6  | 0.0    | 24809.6 |
|                    | % Fixture | 91.7     | 0.0    | 91.7    |
| <b>Total</b>       | Lumens    | 27045.1  | 0.0    | 27045.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 608.0   | 2.2       |
| 10°-20°   | 1261.0  | 4.7       |
| 20°-30°   | 1673.1  | 6.2       |
| 30°-40°   | 2318.4  | 8.6       |
| 40°-50°   | 3783.0  | 14.0      |
| 50°-60°   | 6649.2  | 24.6      |
| 60°-70°   | 7364.6  | 27.2      |
| 70°-80°   | 3051.9  | 11.3      |
| 80°-90°   | 336.0   | 1.2       |
| 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°    | 27045.1 | 100.0     |
| 0°-180°   | 27045.1 | 100.0     |



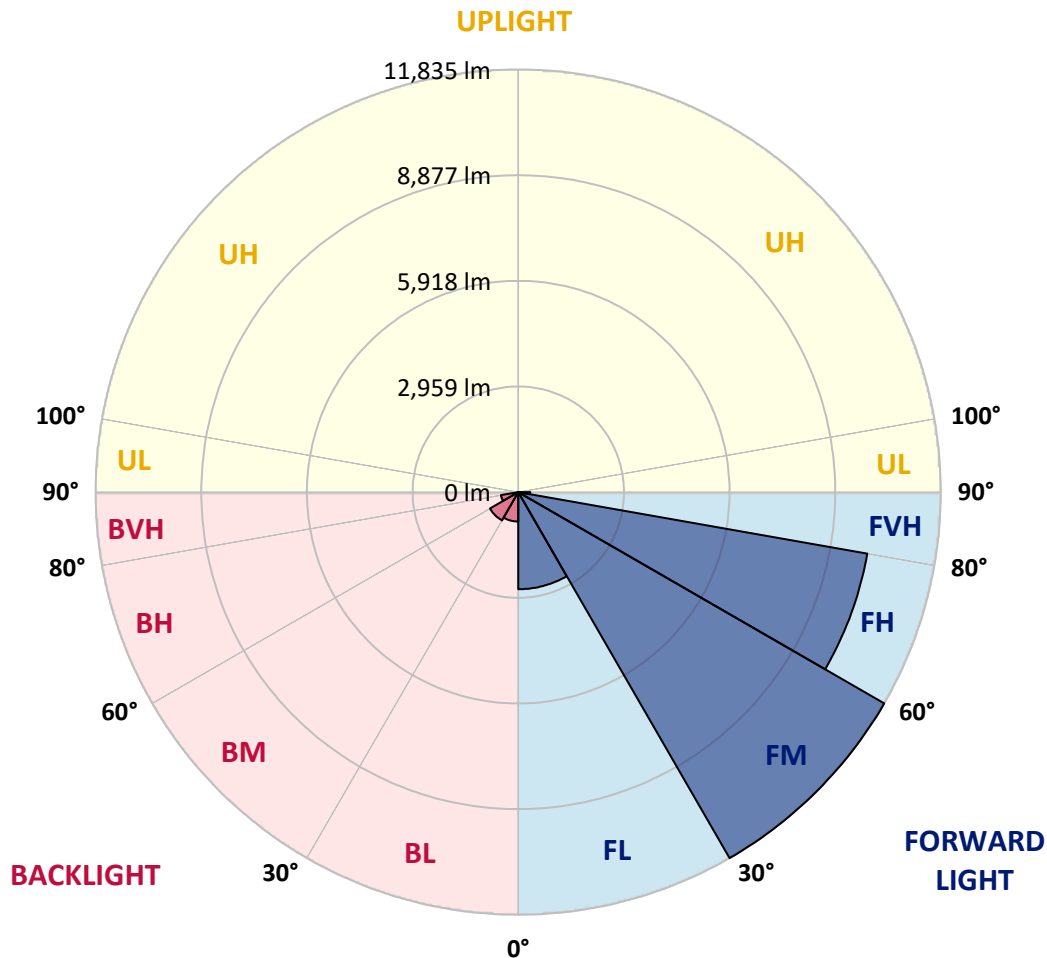
REPORT NUMBER: P484583  
 CATALOG NUMBER: IFLD-L-SA8B-830-U-SL3-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2718.8  | 10.1      |                         |      |          |
| FM (30°-60°)   | 11835.5 | 43.8      |                         |      |          |
| FH (60°-80°)   | 9924.9  | 36.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 330.4   | 1.2       |                         |      | G3/500   |
| BL (0°-30°)    | 823.3   | 3.0       | B2/1000                 |      |          |
| BM (30°-60°)   | 915.1   | 3.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 491.5   | 1.8       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 5.5     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short





REPORT NUMBER: P484583

CATALOG NUMBER: IFLD-L-SA8B-830-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  | 7662.2  |
| 2.5°  | 8337.3  | 8366.0  | 8391.1  | 8344.5  | 8383.9  | 8326.5  | 8179.3  | 8147.0  | 8121.8  | 7902.8  | 7777.1  |
| 5°    | 8333.7  | 8301.4  | 8326.5  | 8348.0  | 8294.2  | 8337.3  | 8301.4  | 8305.0  | 8208.0  | 8010.5  | 7658.7  |
| 7.5°  | 7777.1  | 7762.8  | 7777.1  | 7881.3  | 7999.8  | 8093.1  | 8147.0  | 8200.8  | 8136.2  | 7841.8  | 7500.7  |
| 10°   | 7026.7  | 7098.5  | 7138.0  | 7324.7  | 7507.9  | 7680.2  | 7849.0  | 7949.5  | 7931.5  | 7813.0  | 7328.3  |
| 12.5° | 6502.5  | 6481.0  | 6624.6  | 6746.7  | 6929.8  | 7278.1  | 7572.5  | 7665.8  | 7773.6  | 7608.4  | 7102.1  |
| 15°   | 6017.8  | 5960.3  | 6046.5  | 6258.3  | 6570.7  | 6847.2  | 7260.1  | 7400.1  | 7536.6  | 7579.7  | 6980.0  |
| 17.5° | 5554.6  | 5583.3  | 5673.1  | 5863.4  | 6157.8  | 6545.6  | 6933.4  | 7134.4  | 7461.2  | 7403.7  | 6796.9  |
| 20°   | 5332.0  | 5393.0  | 5425.3  | 5522.3  | 5726.9  | 6114.7  | 6692.8  | 6854.4  | 7202.7  | 7400.1  | 6617.4  |
| 22.5° | 5342.7  | 5342.7  | 5267.3  | 5324.8  | 5511.5  | 5813.1  | 6366.1  | 6545.6  | 7098.5  | 7213.4  | 6455.8  |
| 25°   | 5457.6  | 5385.8  | 5389.4  | 5321.2  | 5400.2  | 5565.4  | 6071.6  | 6290.7  | 6886.7  | 7231.4  | 6369.6  |
| 27.5° | 5543.8  | 5529.5  | 5507.9  | 5490.0  | 5389.4  | 5414.6  | 5877.7  | 6057.3  | 6804.1  | 7209.8  | 6236.8  |
| 30°   | 5856.2  | 5791.6  | 5770.0  | 5730.5  | 5597.7  | 5475.6  | 5723.3  | 5949.5  | 6739.5  | 7260.1  | 6161.4  |
| 32.5° | 6118.3  | 6129.1  | 6147.0  | 6032.1  | 5917.2  | 5615.6  | 5766.4  | 5946.0  | 6692.8  | 7375.0  | 6236.8  |
| 35°   | 6448.6  | 6495.3  | 6502.5  | 6466.6  | 6344.5  | 6046.5  | 5946.0  | 6100.4  | 6771.8  | 7579.7  | 6244.0  |
| 37.5° | 6951.3  | 6901.0  | 7037.5  | 7051.9  | 6965.7  | 6570.7  | 6362.5  | 6423.5  | 7005.2  | 7906.4  | 6516.9  |
| 40°   | 7278.1  | 7339.1  | 7594.0  | 7752.0  | 7604.8  | 7245.7  | 6965.7  | 6954.9  | 7342.7  | 8419.9  | 6854.4  |
| 42.5° | 7640.7  | 7777.1  | 8057.2  | 8398.3  | 8380.4  | 8046.4  | 7762.8  | 7716.1  | 7942.3  | 9163.1  | 7389.4  |
| 45°   | 8136.2  | 8258.3  | 8649.6  | 9163.1  | 9443.2  | 9159.5  | 8732.2  | 8638.9  | 8671.2  | 10175.6 | 8301.4  |
| 47.5° | 8958.4  | 8926.1  | 9489.8  | 9996.1  | 10455.7 | 10236.7 | 10053.6 | 9780.7  | 9755.5  | 11367.7 | 9561.6  |
| 50°   | 9888.4  | 9881.2  | 10383.9 | 10958.4 | 11489.8 | 11917.1 | 11611.9 | 11313.8 | 11321.0 | 12987.0 | 11044.5 |
| 52.5° | 10771.7 | 10911.7 | 11453.9 | 12024.8 | 12936.8 | 13396.4 | 13690.8 | 13572.3 | 13001.4 | 14434.0 | 12631.6 |
| 55°   | 11238.4 | 11360.5 | 11899.1 | 12882.9 | 14322.7 | 15504.0 | 16301.1 | 16200.6 | 15098.3 | 16064.1 | 14197.1 |
| 57.5° | 10796.8 | 10879.4 | 11608.3 | 12897.3 | 15292.2 | 17927.6 | 18692.4 | 18566.8 | 17267.0 | 17310.1 | 16089.3 |
| 60°   | 8947.7  | 9076.9  | 10161.3 | 11672.9 | 14915.2 | 19794.7 | 21985.0 | 21794.7 | 19241.8 | 18886.3 | 17306.5 |
| 62.5° | 6197.3  | 6283.5  | 7173.9  | 9055.4  | 13127.1 | 20444.6 | 25094.4 | 25198.5 | 21324.3 | 20114.3 | 17669.1 |
| 65°   | 4014.2  | 4007.1  | 4516.9  | 5791.6  | 9303.1  | 18477.0 | 26932.8 | 27579.1 | 23335.0 | 20301.0 | 17557.8 |
| 67°   | 2836.5  | 2825.8  | 3066.3  | 3928.1  | 6441.5  | 15224.0 | 26900.4 | 28290.0 | 24426.5 | 20354.9 | 16527.3 |
| 67.5° | 2617.5  | 2606.7  | 2836.5  | 3612.1  | 5813.1  | 14157.6 | 26498.3 | 27923.7 | 24810.7 | 20279.5 | 16074.9 |
| 70°   | 2032.3  | 2003.5  | 2089.7  | 2488.3  | 3385.9  | 9155.9  | 22677.9 | 25650.9 | 24013.6 | 18398.0 | 12836.2 |
| 72.5° | 1468.5  | 1500.9  | 1637.3  | 2043.0  | 2657.0  | 4926.2  | 17284.9 | 20742.6 | 20056.8 | 13866.7 | 8157.7  |
| 75°   | 1023.3  | 1052.0  | 1271.1  | 1666.0  | 2438.0  | 2987.3  | 11687.3 | 15044.4 | 13970.9 | 7655.1  | 3475.7  |
| 77.5° | 535.0   | 570.9   | 811.5   | 1332.1  | 2215.4  | 2312.3  | 6983.6  | 9540.1  | 7403.7  | 2725.2  | 958.7   |
| 80°   | 247.7   | 265.7   | 405.7   | 944.3   | 1852.7  | 2032.3  | 4071.7  | 5306.8  | 2962.2  | 610.4   | 330.3   |
| 82.5° | 107.7   | 118.5   | 186.7   | 542.2   | 1314.1  | 1777.3  | 2520.6  | 2782.7  | 1073.6  | 197.5   | 204.7   |
| 85°   | 21.5    | 25.1    | 71.8    | 287.2   | 635.5   | 1077.2  | 1770.1  | 1651.7  | 538.6   | 96.9    | 161.6   |
| 87.5° | 0.0     | 0.0     | 18.0    | 82.6    | 172.3   | 319.6   | 750.4   | 750.4   | 165.2   | 50.3    | 61.0    |
| 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: P484583

CATALOG NUMBER: IFLD-L-SA8B-830-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7662.2  | 7662.2 | 7662.2 | 7662.2 | 7662.2 | 7662.2 | 7662.2 | 7662.2 | 7662.2 | 7662.2 | 7662.2 |
| 2.5°  | 7665.8  | 7536.6 | 7252.9 | 6990.8 | 6804.1 | 6592.3 | 6312.2 | 6186.5 | 6139.8 | 6075.2 | 5978.3 |
| 5°    | 7464.8  | 7306.8 | 6822.1 | 6333.7 | 5798.7 | 5393.0 | 4962.1 | 4710.8 | 4520.5 | 4402.0 | 4362.5 |
| 7.5°  | 7181.1  | 6858.0 | 6204.5 | 5421.7 | 4728.8 | 4125.5 | 3472.1 | 3030.4 | 2746.8 | 2631.9 | 2524.2 |
| 10°   | 6954.9  | 6534.8 | 5540.2 | 4567.2 | 3644.4 | 2761.1 | 2025.1 | 1637.3 | 1342.9 | 1231.6 | 1217.2 |
| 12.5° | 6660.5  | 6157.8 | 4919.1 | 3694.7 | 2534.9 | 1644.5 | 1120.3 | 973.0  | 890.5  | 876.1  | 865.3  |
| 15°   | 6416.3  | 5816.7 | 4330.2 | 2861.7 | 1640.9 | 1026.9 | 872.5  | 836.6  | 815.1  | 807.9  | 811.5  |
| 17.5° | 6251.2  | 5450.5 | 3727.0 | 2082.5 | 1080.8 | 840.2  | 804.3  | 782.7  | 772.0  | 768.4  | 757.6  |
| 20°   | 5924.4  | 5141.7 | 3131.0 | 1457.8 | 843.8  | 775.6  | 746.8  | 728.9  | 718.1  | 714.5  | 710.9  |
| 22.5° | 5737.7  | 4750.3 | 2534.9 | 1016.1 | 750.4  | 703.7  | 682.2  | 667.8  | 649.9  | 639.1  | 635.5  |
| 25°   | 5551.0  | 4463.1 | 2003.5 | 789.9  | 682.2  | 649.9  | 617.6  | 599.6  | 570.9  | 556.5  | 552.9  |
| 27.5° | 5332.0  | 4179.4 | 1543.9 | 685.8  | 614.0  | 581.7  | 549.4  | 520.6  | 484.7  | 470.4  | 463.2  |
| 30°   | 5206.3  | 3902.9 | 1163.3 | 614.0  | 563.7  | 520.6  | 481.1  | 445.2  | 405.7  | 380.6  | 373.4  |
| 32.5° | 5141.7  | 3651.6 | 872.5  | 560.1  | 509.9  | 463.2  | 412.9  | 369.8  | 333.9  | 312.4  | 308.8  |
| 35°   | 5062.7  | 3407.4 | 685.8  | 509.9  | 459.6  | 409.3  | 359.1  | 316.0  | 280.1  | 262.1  | 254.9  |
| 37.5° | 5145.3  | 3263.8 | 570.9  | 470.4  | 420.1  | 362.6  | 308.8  | 265.7  | 237.0  | 219.0  | 215.4  |
| 40°   | 5371.5  | 3145.3 | 495.5  | 434.5  | 380.6  | 319.6  | 269.3  | 226.2  | 201.1  | 186.7  | 179.5  |
| 42.5° | 5719.8  | 3145.3 | 448.8  | 398.6  | 344.7  | 280.1  | 229.8  | 197.5  | 172.3  | 158.0  | 154.4  |
| 45°   | 6351.7  | 3242.3 | 409.3  | 362.6  | 301.6  | 240.6  | 197.5  | 165.2  | 140.0  | 125.7  | 122.1  |
| 47.5° | 7238.6  | 3464.9 | 377.0  | 330.3  | 269.3  | 211.8  | 172.3  | 140.0  | 114.9  | 100.5  | 96.9   |
| 50°   | 8430.6  | 3971.2 | 344.7  | 290.8  | 240.6  | 183.1  | 143.6  | 111.3  | 89.8   | 75.4   | 71.8   |
| 52.5° | 9917.1  | 4689.3 | 312.4  | 269.3  | 204.7  | 154.4  | 114.9  | 89.8   | 68.2   | 57.4   | 53.9   |
| 55°   | 11489.8 | 5569.0 | 272.9  | 240.6  | 175.9  | 129.3  | 93.4   | 68.2   | 50.3   | 43.1   | 39.5   |
| 57.5° | 13073.2 | 6247.6 | 240.6  | 208.3  | 143.6  | 104.1  | 75.4   | 53.9   | 35.9   | 28.7   | 25.1   |
| 60°   | 13913.4 | 6312.2 | 208.3  | 172.3  | 114.9  | 82.6   | 57.4   | 39.5   | 25.1   | 18.0   | 14.4   |
| 62.5° | 14042.7 | 5737.7 | 179.5  | 140.0  | 93.4   | 64.6   | 39.5   | 28.7   | 14.4   | 7.2    | 7.2    |
| 65°   | 13378.4 | 4782.6 | 154.4  | 111.3  | 71.8   | 46.7   | 28.7   | 18.0   | 7.2    | 3.6    | 0.0    |
| 67°   | 12301.2 | 4007.1 | 132.9  | 93.4   | 57.4   | 35.9   | 21.5   | 10.8   | 3.6    | 0.0    | 0.0    |
| 67.5° | 11884.7 | 3791.6 | 125.7  | 86.2   | 53.9   | 32.3   | 18.0   | 10.8   | 3.6    | 0.0    | 0.0    |
| 70°   | 9224.1  | 2707.3 | 93.4   | 61.0   | 39.5   | 25.1   | 14.4   | 7.2    | 0.0    | 0.0    | 0.0    |
| 72.5° | 5651.5  | 1583.4 | 71.8   | 43.1   | 28.7   | 18.0   | 10.8   | 3.6    | 0.0    | 0.0    | 0.0    |
| 75°   | 2369.8  | 545.8  | 61.0   | 32.3   | 21.5   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    |
| 77.5° | 617.6   | 204.7  | 43.1   | 21.5   | 14.4   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    |
| 80°   | 251.3   | 93.4   | 28.7   | 14.4   | 14.4   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 165.2   | 43.1   | 18.0   | 14.4   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 125.7   | 25.1   | 10.8   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 53.9    | 14.4   | 10.8   | 7.2    | 7.2    | 0.0    | 0.0    | 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)