

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: P483999

Luminaire Tested: **IFLD-L-SA8C-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483999  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41127.8 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

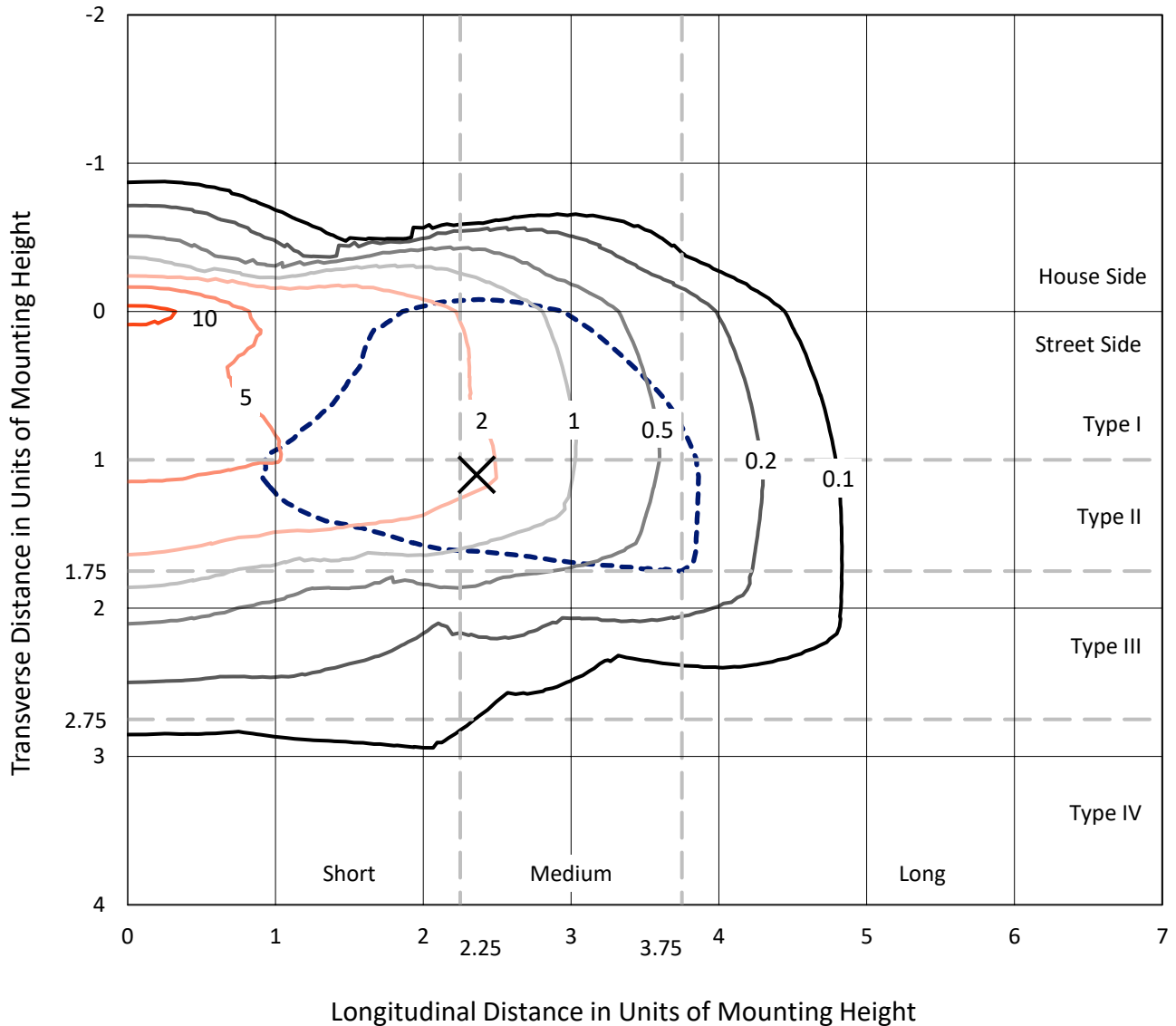
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P483999  
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

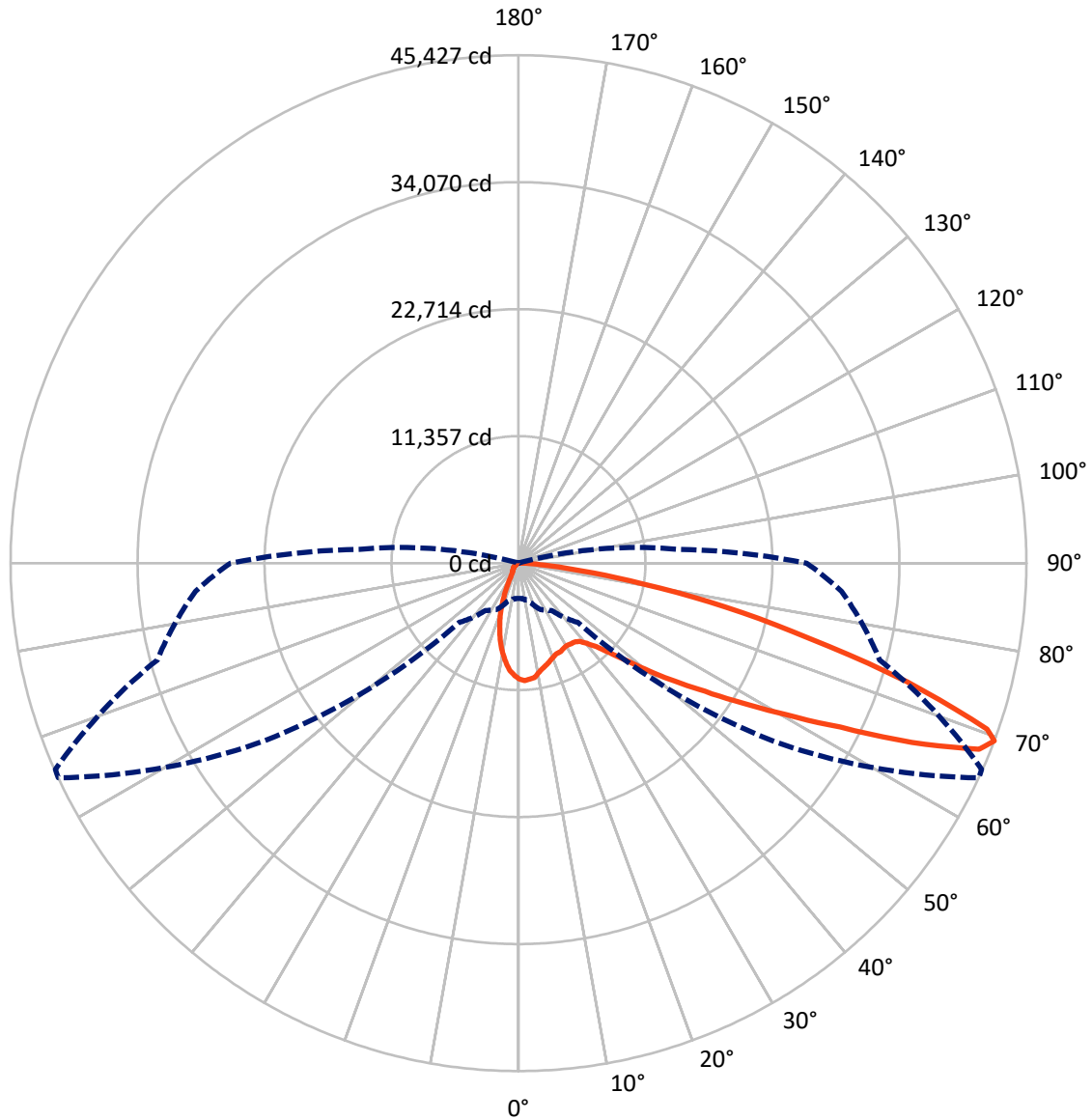
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Medium - N/A

REPORT NUMBER: P483999  
CATALOG NUMBER: IFLD-L-SA8C-735-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P483999  
 CATALOG NUMBER: IFLD-L-SA8C-735-U-SL2-HSS

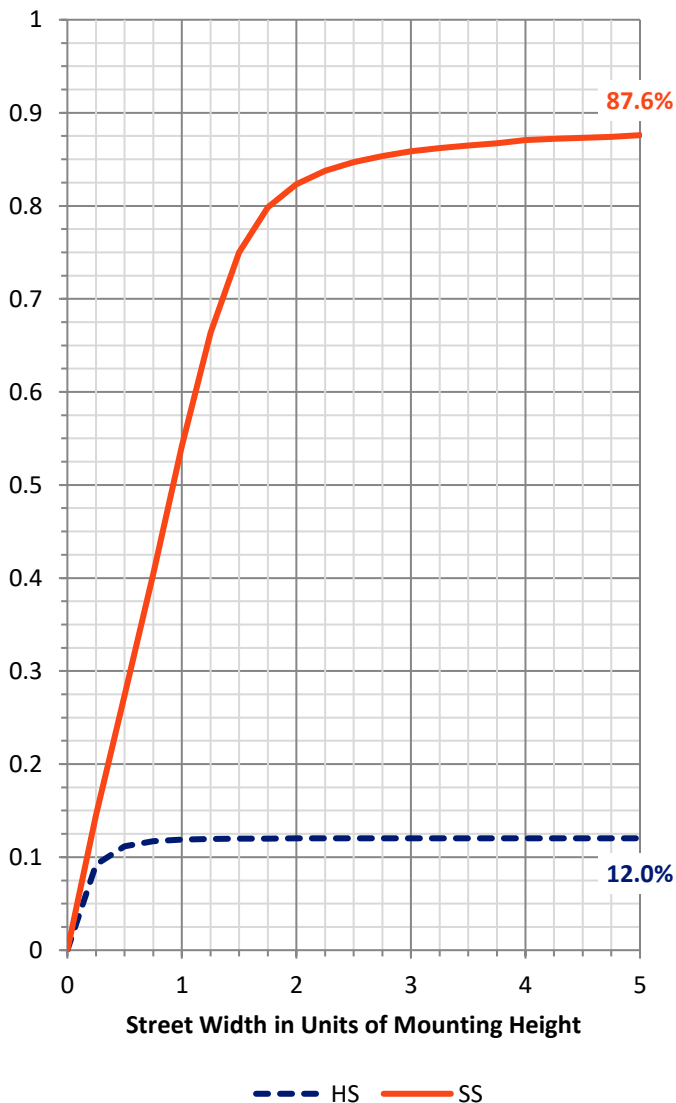
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4989.0   | 0.0    | 4989.0  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 36138.8  | 0.0    | 36138.8 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 41127.8  | 0.0    | 41127.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 848.5   | 2.1       |
| 10°-20°   | 1856.6  | 4.5       |
| 20°-30°   | 2584.8  | 6.3       |
| 30°-40°   | 3662.9  | 8.9       |
| 40°-50°   | 5772.6  | 14.0      |
| 50°-60°   | 9367.0  | 22.8      |
| 60°-70°   | 10461.0 | 25.4      |
| 70°-80°   | 5890.7  | 14.3      |
| 80°-90°   | 683.5   | 1.7       |
| 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°    | 41127.8 | 100.0     |
| 0°-180°   | 41127.8 | 100.0     |



REPORT NUMBER: P483999

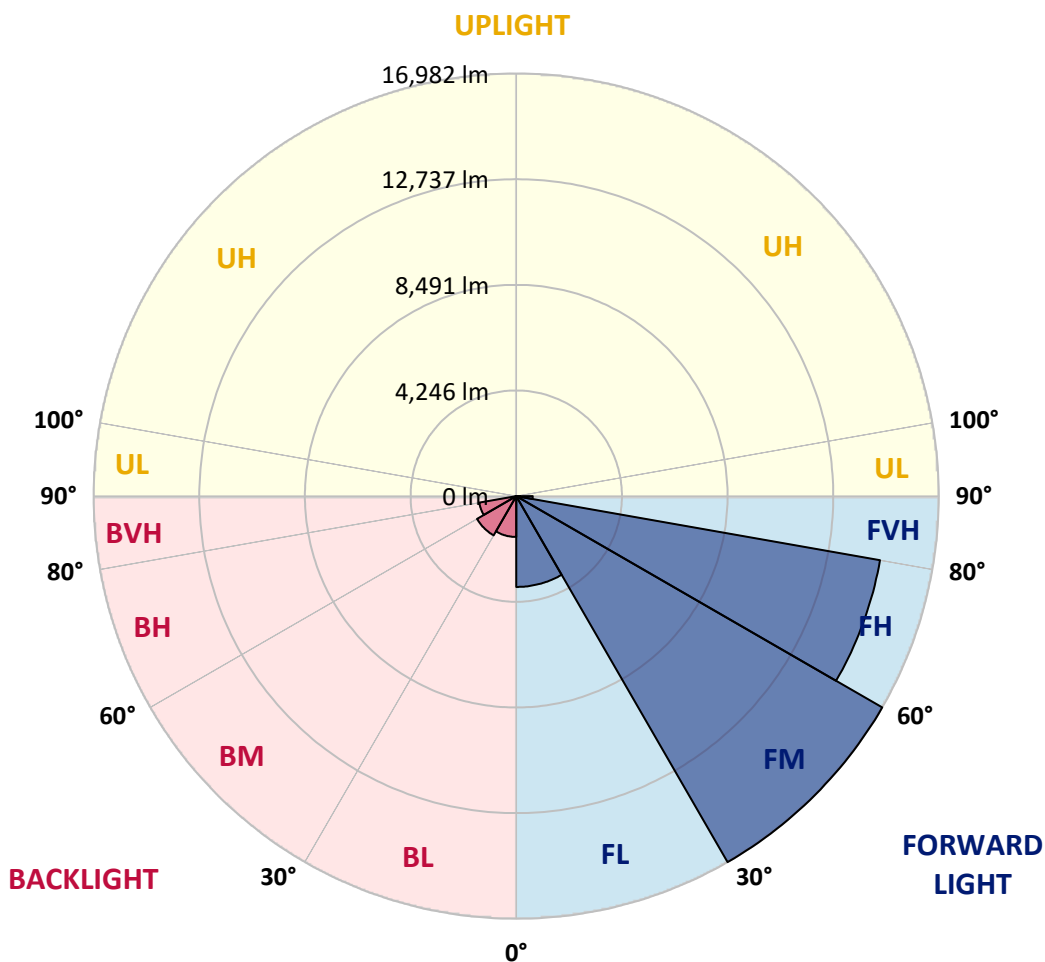
CATALOG NUMBER: IFLD-L-SA8C-735-U-SL2-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3649.7  | 8.9       |                         |      |         |
| FM (30°-60°)   | 16982.1 | 41.3      |                         |      |         |
| FH (60°-80°)   | 14842.3 | 36.1      |                         |      | G5      |
| FVH (80°-90°)  | 664.7   | 1.6       |                         |      | G4/750  |
| BL (0°-30°)    | 1640.3  | 4.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 1820.5  | 4.4       | B2/2500                 |      |         |
| BH (60°-80°)   | 1509.5  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 18.9    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Medium





REPORT NUMBER: P483999

CATALOG NUMBER: IFLD-L-SA8C-735-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 |
| 2.5°  | 9986.5  | 10064.1 | 10086.3 | 10164.0 | 10202.8 | 10369.3 | 10463.6 | 10519.1 | 10491.3 | 10552.4 | 10557.9 |
| 5°    | 9276.3  | 9231.9  | 9348.4  | 9431.7  | 9609.2  | 9897.7  | 10191.7 | 10419.2 | 10524.6 | 10624.5 | 10607.8 |
| 7.5°  | 8516.2  | 8494.0  | 8610.6  | 8799.2  | 8960.1  | 9309.6  | 9781.2  | 10341.5 | 10319.3 | 10563.5 | 10635.6 |
| 10°   | 7994.7  | 8016.9  | 8055.7  | 8244.4  | 8482.9  | 8838.0  | 9426.1  | 9947.6  | 10064.1 | 10580.1 | 10724.4 |
| 12.5° | 7517.6  | 7556.4  | 7628.6  | 7822.7  | 8100.1  | 8466.3  | 9037.8  | 9648.0  | 9825.6  | 10485.8 | 10774.3 |
| 15°   | 7362.2  | 7273.5  | 7417.7  | 7562.0  | 7850.5  | 8177.8  | 8660.5  | 9420.6  | 9498.2  | 10374.8 | 10857.5 |
| 17.5° | 7234.6  | 7179.2  | 7245.7  | 7362.2  | 7667.4  | 7933.7  | 8388.6  | 9176.5  | 9320.7  | 10330.4 | 10846.4 |
| 20°   | 7273.5  | 7223.5  | 7251.3  | 7340.1  | 7478.8  | 7728.4  | 8150.1  | 8943.4  | 9098.8  | 10125.2 | 10829.8 |
| 22.5° | 7384.4  | 7423.3  | 7373.3  | 7395.5  | 7439.9  | 7567.5  | 8022.5  | 8777.0  | 8910.1  | 10086.3 | 10924.1 |
| 25°   | 7883.8  | 7817.2  | 7750.6  | 7722.9  | 7462.1  | 7517.6  | 7983.6  | 8765.9  | 8860.2  | 9947.6  | 10846.4 |
| 27.5° | 8405.3  | 8349.8  | 8322.1  | 8161.2  | 7806.1  | 7639.6  | 7989.2  | 8610.6  | 8738.2  | 9892.1  | 10752.1 |
| 30°   | 9037.8  | 9109.9  | 8998.9  | 8804.7  | 8311.0  | 7900.4  | 8050.2  | 8532.9  | 8710.4  | 9681.3  | 10691.1 |
| 32.5° | 9703.5  | 9742.4  | 9797.8  | 9653.6  | 9015.6  | 8294.3  | 8233.3  | 8605.0  | 8616.1  | 9681.3  | 10552.4 |
| 35°   | 10458.0 | 10402.6 | 10546.8 | 10557.9 | 9997.6  | 8993.4  | 8582.8  | 8654.9  | 8771.4  | 9636.9  | 10502.4 |
| 37.5° | 11107.2 | 11201.5 | 11367.9 | 11634.2 | 11057.2 | 9980.9  | 9126.5  | 8888.0  | 8937.9  | 9842.2  | 10541.3 |
| 40°   | 11817.3 | 11911.6 | 12288.9 | 12555.2 | 12227.9 | 11090.5 | 9953.2  | 9431.7  | 9470.5  | 10147.4 | 10741.0 |
| 42.5° | 12599.6 | 12782.7 | 13232.1 | 13698.1 | 13609.3 | 12499.7 | 11018.4 | 10230.6 | 10213.9 | 10907.4 | 11151.6 |
| 45°   | 13659.3 | 13903.4 | 14391.6 | 14929.8 | 15007.4 | 14114.2 | 12438.7 | 11423.4 | 11478.9 | 11900.5 | 12000.4 |
| 47.5° | 15135.0 | 15123.9 | 15601.1 | 16200.3 | 16649.7 | 15789.7 | 14136.4 | 13026.8 | 13021.2 | 13470.6 | 13259.8 |
| 50°   | 16560.9 | 16566.4 | 16694.0 | 17387.5 | 18552.6 | 18114.3 | 16239.1 | 15157.2 | 15096.2 | 15318.1 | 14979.7 |
| 52.5° | 17221.1 | 17143.4 | 17049.1 | 17886.9 | 20017.3 | 21043.7 | 18902.2 | 17570.6 | 17520.7 | 17387.5 | 17298.8 |
| 55°   | 16527.6 | 16555.3 | 16549.8 | 17420.8 | 20788.5 | 24134.0 | 22319.8 | 20228.1 | 20144.9 | 19728.8 | 19850.9 |
| 57.5° | 14302.8 | 14214.1 | 14408.3 | 15767.5 | 19906.4 | 26242.2 | 27207.6 | 23579.2 | 23362.8 | 21981.3 | 21703.9 |
| 60°   | 10646.7 | 10674.4 | 10835.3 | 12438.7 | 17714.9 | 26686.1 | 31884.6 | 27512.7 | 26580.6 | 23568.1 | 23185.2 |
| 62.5° | 7434.4  | 7378.9  | 7439.9  | 8338.7  | 12666.2 | 24910.7 | 35046.9 | 32295.1 | 31396.3 | 25371.2 | 25149.3 |
| 65°   | 5320.6  | 5248.4  | 5492.6  | 6041.8  | 7606.4  | 19046.4 | 35496.3 | 38664.3 | 37859.8 | 28250.6 | 27718.0 |
| 67.5° | 3828.1  | 3817.0  | 4100.0  | 5098.6  | 5403.8  | 10968.5 | 32167.5 | 44434.2 | 43946.0 | 31668.2 | 29282.5 |
| 69°   | 3167.9  | 3173.5  | 3445.3  | 4566.0  | 5159.7  | 7489.8  | 27679.2 | 45427.3 | 45338.6 | 33432.5 | 28988.5 |
| 70°   | 2762.9  | 2785.1  | 3101.4  | 4249.8  | 5059.8  | 6158.3  | 23862.1 | 44450.9 | 44362.1 | 33776.4 | 28017.6 |
| 72.5° | 1703.2  | 1719.9  | 2136.0  | 3406.5  | 4810.1  | 5026.5  | 14269.6 | 36367.4 | 36672.5 | 32200.8 | 24139.5 |
| 75°   | 815.6   | 821.1   | 1120.7  | 2463.3  | 4638.2  | 4765.8  | 7645.2  | 26835.9 | 27479.4 | 25998.1 | 18863.3 |
| 77.5° | 432.7   | 432.7   | 538.2   | 1309.3  | 3756.0  | 4482.8  | 4538.3  | 18929.9 | 19462.5 | 16438.8 | 10724.4 |
| 80°   | 216.4   | 221.9   | 327.3   | 682.4   | 2330.2  | 4394.0  | 3545.2  | 11290.3 | 11578.8 | 6707.6  | 3339.9  |
| 82.5° | 83.2    | 88.8    | 155.3   | 410.6   | 1209.5  | 3711.6  | 3112.4  | 5553.6  | 5481.5  | 1570.1  | 815.6   |
| 85°   | 11.1    | 11.1    | 55.5    | 244.1   | 516.0   | 1636.7  | 2568.7  | 2319.1  | 2241.4  | 344.0   | 393.9   |
| 87.5° | 0.0     | 0.0     | 11.1    | 72.1    | 155.3   | 477.1   | 993.1   | 638.0   | 710.1   | 94.3    | 194.2   |
| 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: P483999

CATALOG NUMBER: IFLD-L-SA8C-735-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 | 10369.3 |
| 2.5°  | 10530.2 | 10413.7 | 10236.1 | 10064.1 | 9881.1  | 9659.1  | 9415.0  | 9326.2  | 9170.9  | 9159.8  | 9248.6  |
| 5°    | 10519.1 | 10330.4 | 10019.8 | 9653.6  | 9132.1  | 8738.2  | 8311.0  | 8000.3  | 7761.7  | 7606.4  | 7645.2  |
| 7.5°  | 10574.6 | 10347.1 | 9808.9  | 9021.1  | 8349.8  | 7567.5  | 6907.3  | 6452.4  | 6036.3  | 5831.0  | 5808.8  |
| 10°   | 10485.8 | 10180.6 | 9392.8  | 8288.8  | 7301.2  | 6208.3  | 5242.9  | 4632.6  | 4011.2  | 3783.8  | 3794.9  |
| 12.5° | 10535.7 | 10108.5 | 8943.4  | 7534.2  | 6175.0  | 4754.7  | 3600.7  | 2768.5  | 2185.9  | 1997.3  | 1975.1  |
| 15°   | 10569.0 | 9953.2  | 8510.7  | 6629.9  | 4926.7  | 3240.1  | 2086.1  | 1570.1  | 1387.0  | 1353.7  | 1348.2  |
| 17.5° | 10441.4 | 9764.5  | 7900.4  | 5736.7  | 3650.6  | 1969.6  | 1387.0  | 1281.6  | 1248.3  | 1226.1  | 1215.0  |
| 20°   | 10435.9 | 9653.6  | 7373.3  | 4821.2  | 2435.6  | 1342.6  | 1198.4  | 1159.5  | 1109.6  | 1093.0  | 1093.0  |
| 22.5° | 10341.5 | 9420.6  | 6740.9  | 3817.0  | 1553.5  | 1154.0  | 1076.3  | 1015.3  | 959.8   | 937.6   | 932.1   |
| 25°   | 10313.8 | 9148.7  | 6147.2  | 2868.3  | 1181.7  | 1031.9  | 954.3   | 865.5   | 798.9   | 765.6   | 749.0   |
| 27.5° | 10236.1 | 8915.7  | 5548.0  | 2019.5  | 1031.9  | 921.0   | 821.1   | 726.8   | 649.1   | 599.2   | 593.6   |
| 30°   | 9958.7  | 8671.6  | 4882.3  | 1398.1  | 937.6   | 815.6   | 704.6   | 593.6   | 516.0   | 482.7   | 471.6   |
| 32.5° | 9842.2  | 8444.1  | 4155.5  | 1076.3  | 854.4   | 721.2   | 593.6   | 493.8   | 432.7   | 399.5   | 393.9   |
| 35°   | 9703.5  | 8111.2  | 3450.9  | 937.6   | 776.7   | 626.9   | 499.3   | 416.1   | 366.2   | 338.4   | 338.4   |
| 37.5° | 9720.2  | 7844.9  | 2790.7  | 848.8   | 693.5   | 538.2   | 427.2   | 355.1   | 310.7   | 282.9   | 282.9   |
| 40°   | 9670.2  | 7634.1  | 2169.3  | 771.2   | 615.8   | 460.5   | 360.6   | 299.6   | 260.8   | 233.0   | 227.5   |
| 42.5° | 9897.7  | 7578.6  | 1636.7  | 704.6   | 538.2   | 393.9   | 310.7   | 255.2   | 216.4   | 183.1   | 183.1   |
| 45°   | 10280.5 | 7667.4  | 1276.0  | 643.6   | 460.5   | 338.4   | 266.3   | 210.8   | 172.0   | 149.8   | 144.2   |
| 47.5° | 11301.4 | 8016.9  | 998.6   | 593.6   | 393.9   | 294.0   | 221.9   | 172.0   | 138.7   | 116.5   | 111.0   |
| 50°   | 12782.7 | 8799.2  | 848.8   | 521.5   | 332.9   | 249.7   | 183.1   | 133.2   | 111.0   | 88.8    | 83.2    |
| 52.5° | 14890.9 | 10114.1 | 771.2   | 460.5   | 277.4   | 205.3   | 144.2   | 105.4   | 83.2    | 66.6    | 61.0    |
| 55°   | 17187.8 | 11756.3 | 699.1   | 388.4   | 233.0   | 166.4   | 116.5   | 83.2    | 61.0    | 44.4    | 38.8    |
| 57.5° | 18979.8 | 13176.6 | 638.0   | 321.8   | 188.6   | 133.2   | 88.8    | 61.0    | 44.4    | 27.7    | 22.2    |
| 60°   | 20938.3 | 14175.2 | 560.4   | 255.2   | 155.3   | 99.9    | 66.6    | 44.4    | 33.3    | 16.6    | 16.6    |
| 62.5° | 22957.8 | 15345.9 | 460.5   | 199.7   | 122.1   | 77.7    | 49.9    | 33.3    | 22.2    | 5.5     | 5.5     |
| 65°   | 25765.1 | 16261.3 | 355.1   | 155.3   | 94.3    | 55.5    | 38.8    | 27.7    | 11.1    | 0.0     | 0.0     |
| 67.5° | 26558.5 | 15811.9 | 260.8   | 122.1   | 66.6    | 38.8    | 27.7    | 16.6    | 5.5     | 0.0     | 0.0     |
| 69°   | 25765.1 | 14241.8 | 227.5   | 105.4   | 55.5    | 33.3    | 22.2    | 11.1    | 5.5     | 0.0     | 0.0     |
| 70°   | 24317.0 | 13021.2 | 199.7   | 88.8    | 49.9    | 33.3    | 16.6    | 11.1    | 5.5     | 0.0     | 0.0     |
| 72.5° | 20339.1 | 9986.5  | 155.3   | 66.6    | 38.8    | 27.7    | 16.6    | 11.1    | 0.0     | 0.0     | 0.0     |
| 75°   | 14918.7 | 6169.4  | 116.5   | 49.9    | 33.3    | 22.2    | 16.6    | 11.1    | 0.0     | 0.0     | 0.0     |
| 77.5° | 7994.7  | 2252.5  | 83.2    | 33.3    | 22.2    | 16.6    | 16.6    | 11.1    | 0.0     | 0.0     | 0.0     |
| 80°   | 2191.5  | 665.8   | 61.0    | 22.2    | 16.6    | 11.1    | 11.1    | 5.5     | 0.0     | 0.0     | 0.0     |
| 82.5° | 599.2   | 172.0   | 38.8    | 22.2    | 16.6    | 11.1    | 5.5     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 321.8   | 66.6    | 22.2    | 16.6    | 11.1    | 5.5     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 166.4   | 22.2    | 16.6    | 11.1    | 11.1    | 5.5     | 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)