

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: P476588

Luminaire Tested: **IFLD-L-SA8B-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476588  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

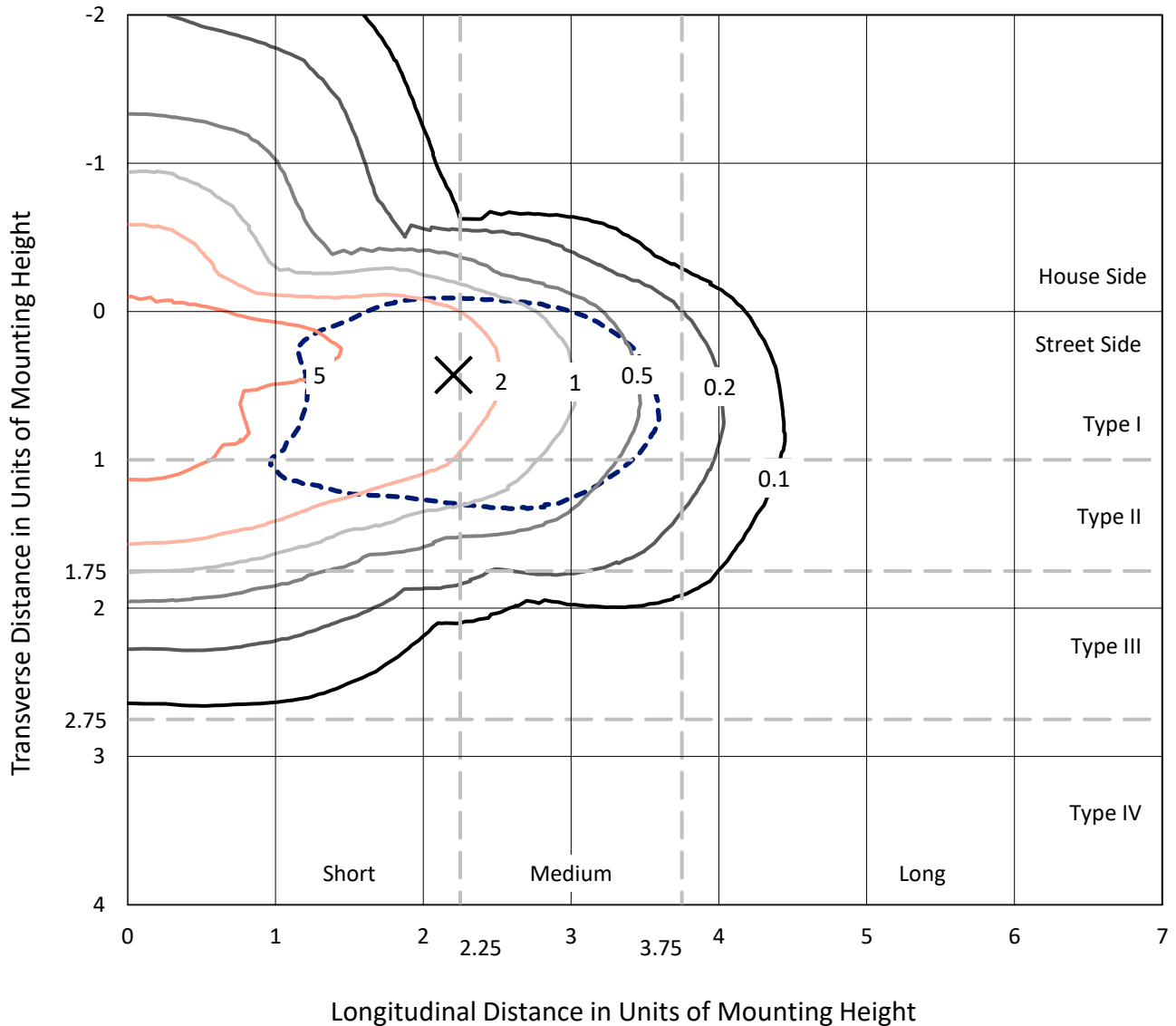
Lumens per Lamp: N/A  
Luminaire Lumens: 40092.7 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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: P476588  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

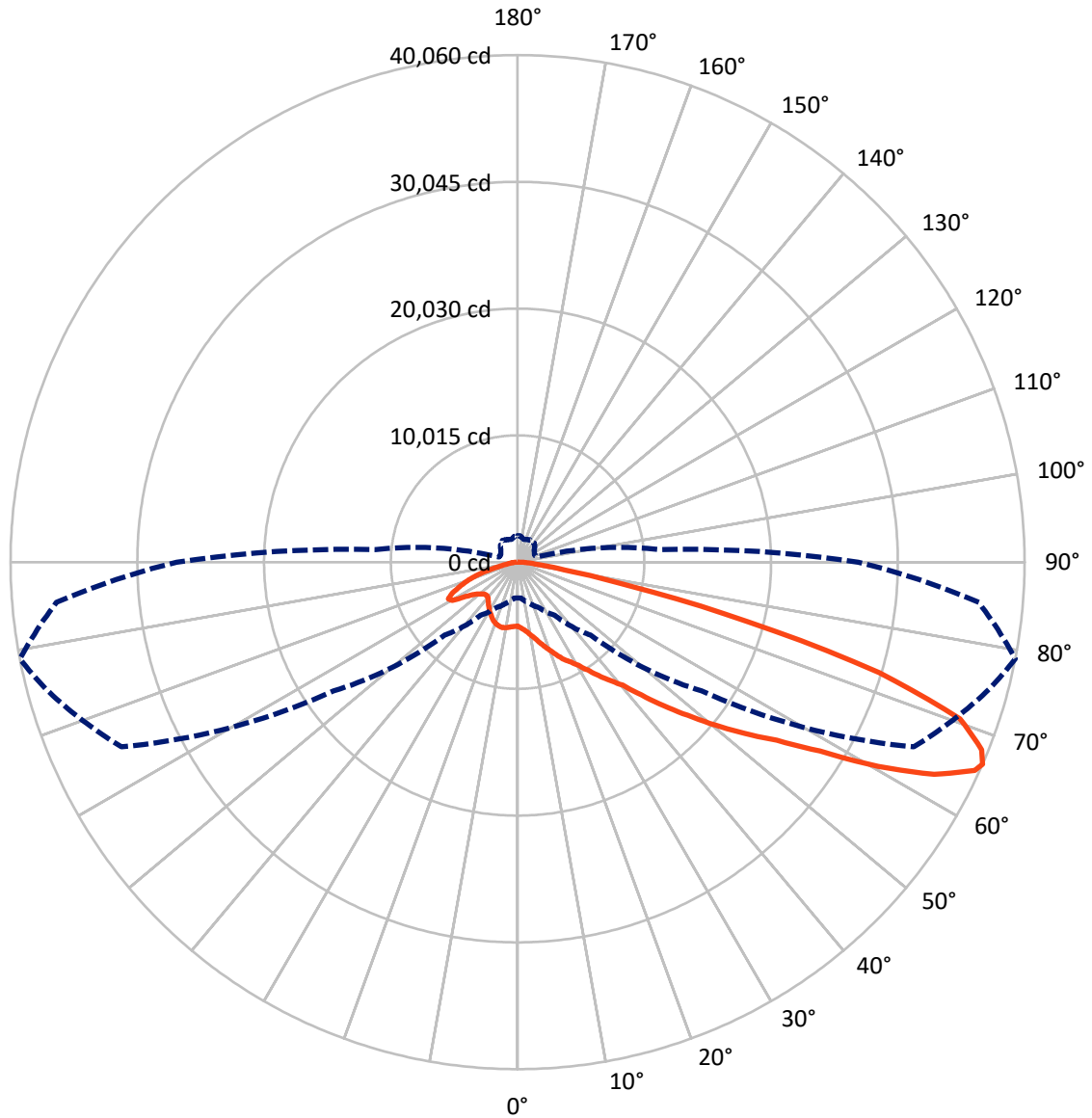
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P476588  
CATALOG NUMBER: IFLD-L-SA8B-735-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476588

CATALOG NUMBER: IFLD-L-SA8B-735-U-T2

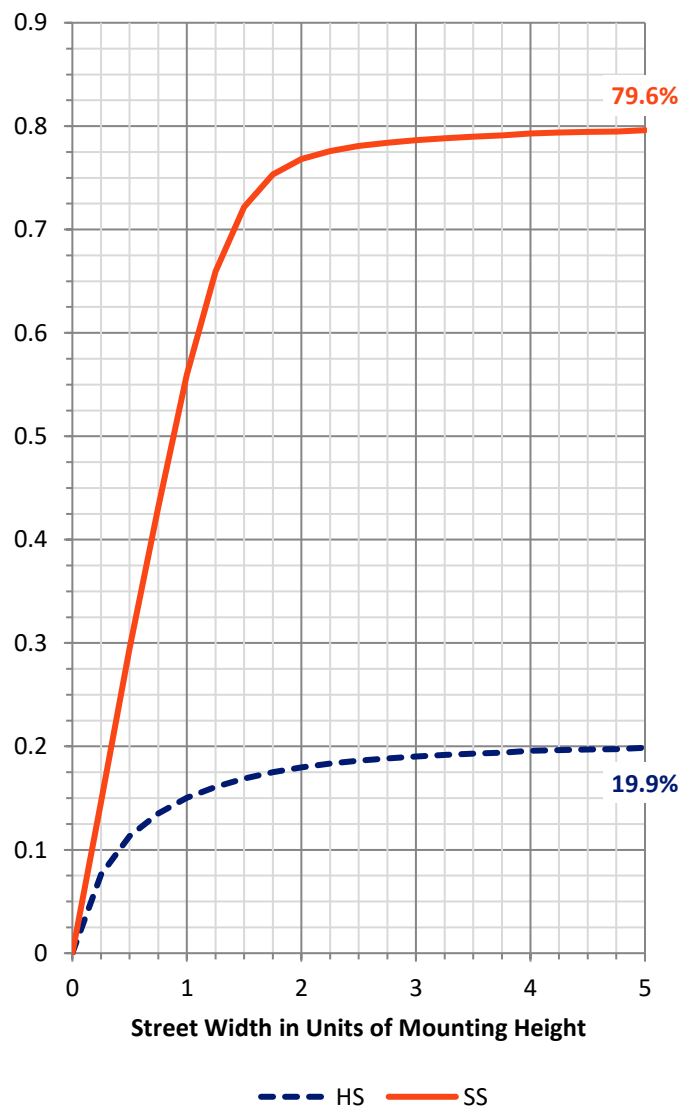
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8096.2   | 0.0    | 8096.2  |
|                    | % Fixture | 20.2     | 0.0    | 20.2    |
| <b>Street Side</b> | Lumens    | 31996.5  | 0.0    | 31996.5 |
|                    | % Fixture | 79.8     | 0.0    | 79.8    |
| <b>Total</b>       | Lumens    | 40092.7  | 0.0    | 40092.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 497.8   | 1.2       |
| 10°-20°   | 1537.2  | 3.8       |
| 20°-30°   | 2638.6  | 6.6       |
| 30°-40°   | 4076.2  | 10.2      |
| 40°-50°   | 6529.0  | 16.3      |
| 50°-60°   | 9748.2  | 24.3      |
| 60°-70°   | 10016.3 | 25.0      |
| 70°-80°   | 4440.1  | 11.1      |
| 80°-90°   | 609.2   | 1.5       |
| 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°    | 40092.7 | 100.0     |
| 0°-180°   | 40092.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P476588

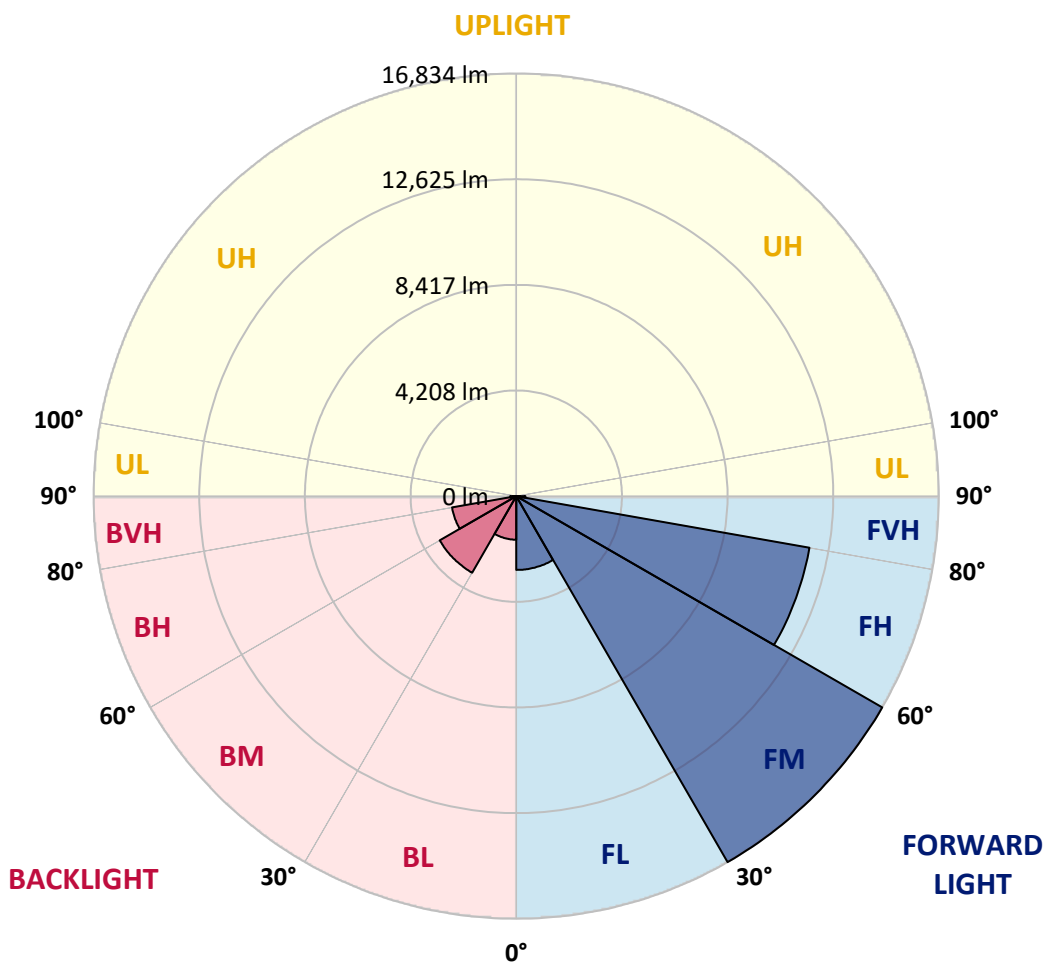
CATALOG NUMBER: IFLD-L-SA8B-735-U-T2

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2939.0  | 7.3       |                         |      |          |
| FM (30°-60°)   | 16833.6 | 42.0      |                         |      |          |
| FH (60°-80°)   | 11858.5 | 29.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 365.4   | 0.9       |                         |      | G3/500   |
| BL (0°-30°)    | 1734.6  | 4.3       | B3/2500                 |      |          |
| BM (30°-60°)   | 3519.8  | 8.8       | B3/5000                 |      |          |
| BH (60°-80°)   | 2597.9  | 6.5       | B4/5000                 |      | G4/5000  |
| BVH (80°-90°)  | 243.8   | 0.6       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Short





REPORT NUMBER: P476588

CATALOG NUMBER: IFLD-L-SA8B-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  | 5062.6  |
| 2.5°  | 5384.5  | 5388.9  | 5388.9  | 5371.3  | 5375.7  | 5388.9  | 5340.4  | 5234.6  | 5234.6  | 5216.9  | 5186.1  |
| 5°    | 5715.3  | 5693.2  | 5662.3  | 5666.8  | 5649.1  | 5649.1  | 5596.2  | 5494.8  | 5406.6  | 5371.3  | 5278.7  |
| 7.5°  | 5759.4  | 5781.4  | 5777.0  | 5829.9  | 5856.4  | 5856.4  | 5882.8  | 5799.0  | 5666.8  | 5583.0  | 5490.4  |
| 10°   | 5847.6  | 5790.2  | 5785.8  | 5909.3  | 5949.0  | 6041.6  | 6147.4  | 6103.3  | 5993.1  | 5874.0  | 5750.5  |
| 12.5° | 5900.5  | 5935.8  | 5935.8  | 5997.5  | 6090.1  | 6226.8  | 6412.0  | 6495.8  | 6323.8  | 6200.4  | 6010.7  |
| 15°   | 5979.9  | 5931.3  | 6072.5  | 6125.4  | 6301.8  | 6398.8  | 6663.4  | 6879.5  | 6764.8  | 6614.9  | 6315.0  |
| 17.5° | 6015.1  | 5984.3  | 6063.6  | 6160.7  | 6460.5  | 6606.1  | 6928.0  | 7227.9  | 7130.8  | 7033.8  | 6725.1  |
| 20°   | 6195.9  | 6191.5  | 6226.8  | 6306.2  | 6522.3  | 6808.9  | 7210.2  | 7624.8  | 7660.0  | 7483.6  | 7064.7  |
| 22.5° | 6636.9  | 6579.6  | 6579.6  | 6548.7  | 6641.3  | 6936.8  | 7479.2  | 8052.5  | 8211.3  | 8004.0  | 7448.4  |
| 25°   | 7042.6  | 7122.0  | 7073.5  | 6932.4  | 6897.1  | 7051.5  | 7673.3  | 8506.7  | 8718.4  | 8524.4  | 7968.7  |
| 27.5° | 7563.0  | 7589.5  | 7673.3  | 7483.6  | 7241.1  | 7289.6  | 7884.9  | 8762.5  | 9199.1  | 8938.9  | 8264.2  |
| 30°   | 8312.7  | 8264.2  | 8246.6  | 8034.9  | 7717.4  | 7651.2  | 8127.5  | 9137.4  | 9829.7  | 9463.7  | 8612.6  |
| 32.5° | 8819.8  | 8938.9  | 8934.5  | 8643.4  | 8259.8  | 8114.3  | 8427.4  | 9490.2  | 10504.4 | 10164.9 | 9256.4  |
| 35°   | 9825.3  | 9948.8  | 9851.8  | 9424.0  | 8974.2  | 8683.1  | 8859.5  | 9948.8  | 11276.2 | 11011.6 | 9803.3  |
| 37.5° | 11108.6 | 11399.7 | 11192.4 | 10403.0 | 9768.0  | 9450.5  | 9459.3  | 10447.1 | 12065.5 | 11849.5 | 10389.8 |
| 40°   | 11995.0 | 12387.5 | 12100.8 | 11360.0 | 10685.2 | 10385.4 | 10266.3 | 11038.0 | 13009.3 | 12780.0 | 11307.0 |
| 42.5° | 13093.1 | 13419.4 | 13269.5 | 12537.4 | 11748.0 | 11492.3 | 11254.1 | 12025.9 | 14451.3 | 14345.5 | 12484.5 |
| 45°   | 14292.6 | 14446.9 | 14398.4 | 13935.4 | 13057.8 | 12969.6 | 12444.8 | 13326.8 | 16149.1 | 16193.2 | 13957.4 |
| 47.5° | 15408.3 | 15492.1 | 15584.7 | 15249.5 | 14702.7 | 14777.7 | 13816.3 | 14720.3 | 17798.4 | 18089.5 | 15597.9 |
| 50°   | 15694.9 | 15981.6 | 16197.6 | 16422.6 | 16541.6 | 17048.8 | 15328.9 | 16431.4 | 19694.7 | 20259.2 | 17423.6 |
| 52.5° | 15403.9 | 15381.8 | 16038.9 | 16744.5 | 17935.2 | 18997.9 | 17388.3 | 18557.0 | 21370.5 | 22486.2 | 19095.0 |
| 55°   | 14080.9 | 14036.8 | 15095.2 | 16030.1 | 18354.1 | 20082.8 | 20329.7 | 21388.1 | 23394.6 | 24845.5 | 21357.3 |
| 57.5° | 11765.7 | 11492.3 | 12647.7 | 14182.3 | 17445.7 | 20201.9 | 23284.4 | 25590.8 | 26508.0 | 28161.8 | 24810.2 |
| 60°   | 7907.0  | 7792.3  | 8899.2  | 10729.3 | 14164.7 | 18512.9 | 25052.8 | 30851.8 | 30895.9 | 32756.9 | 30168.3 |
| 62.5° | 4868.6  | 4890.6  | 5600.6  | 6972.1  | 9917.9  | 14676.2 | 24289.9 | 35054.5 | 35063.3 | 36928.7 | 34578.2 |
| 65°   | 3184.0  | 3197.2  | 3770.5  | 4529.0  | 6195.9  | 9953.2  | 20087.2 | 35385.2 | 37960.6 | 39693.7 | 36598.0 |
| 66°   | 2835.6  | 2840.0  | 3333.9  | 3951.3  | 5133.2  | 8145.1  | 17741.1 | 34525.3 | 38613.3 | 40059.7 | 36571.5 |
| 67.5° | 2390.2  | 2447.5  | 2844.4  | 3320.7  | 4004.2  | 5852.0  | 14076.5 | 32038.1 | 38278.1 | 39548.2 | 35742.4 |
| 70°   | 1869.8  | 1900.7  | 2213.8  | 2698.9  | 3003.2  | 3386.8  | 8365.6  | 26115.6 | 35036.8 | 37096.3 | 32726.0 |
| 72.5° | 1499.4  | 1525.8  | 1764.0  | 2191.7  | 2438.7  | 2231.4  | 4555.5  | 18949.4 | 27676.7 | 29872.8 | 25740.7 |
| 75°   | 1265.6  | 1270.1  | 1384.7  | 1724.3  | 2006.5  | 1675.8  | 2425.5  | 12162.6 | 17758.8 | 18781.9 | 15769.9 |
| 77.5° | 1023.1  | 1040.7  | 1120.1  | 1314.2  | 1614.0  | 1318.6  | 1446.5  | 6813.3  | 8916.9  | 8991.8  | 7289.6  |
| 80°   | 833.5   | 842.3   | 890.8   | 957.0   | 1230.4  | 974.6   | 979.0   | 3325.1  | 3823.4  | 3735.2  | 2963.5  |
| 82.5° | 657.1   | 665.9   | 723.2   | 710.0   | 904.0   | 696.8   | 608.6   | 1600.8  | 1759.6  | 1724.3  | 1362.7  |
| 85°   | 370.4   | 370.4   | 568.9   | 568.9   | 573.3   | 441.0   | 370.4   | 754.1   | 930.5   | 868.8   | 639.4   |
| 87.5° | 119.1   | 123.5   | 172.0   | 180.8   | 286.6   | 198.4   | 180.8   | 282.2   | 441.0   | 388.1   | 229.3   |
| 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: P476588  
 CATALOG NUMBER: IFLD-L-SA8B-735-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5062.6  | 5062.6  | 5062.6 | 5062.6 | 5062.6 | 5062.6 | 5062.6 | 5062.6 | 5062.6 | 5062.6 | 5062.6 |
| 2.5°  | 5168.4  | 5097.9  | 5067.0 | 4965.6 | 4939.1 | 4873.0 | 4842.1 | 4802.4 | 4789.2 | 4731.8 | 4784.8 |
| 5°    | 5208.1  | 5186.1  | 5062.6 | 4934.7 | 4837.7 | 4793.6 | 4727.4 | 4639.2 | 4630.4 | 4551.0 | 4542.2 |
| 7.5°  | 5375.7  | 5300.7  | 5084.6 | 4947.9 | 4753.9 | 4643.6 | 4498.1 | 4454.0 | 4396.7 | 4370.2 | 4427.6 |
| 10°   | 5635.9  | 5446.3  | 5124.3 | 4780.4 | 4542.2 | 4409.9 | 4304.1 | 4273.2 | 4277.6 | 4260.0 | 4233.5 |
| 12.5° | 5821.1  | 5640.3  | 5058.2 | 4639.2 | 4330.5 | 4202.7 | 4193.8 | 4224.7 | 4273.2 | 4251.2 | 4282.0 |
| 15°   | 6085.7  | 5746.1  | 5009.7 | 4405.5 | 4158.6 | 4123.3 | 4118.9 | 4211.5 | 4207.1 | 4207.1 | 4202.7 |
| 17.5° | 6332.6  | 5852.0  | 4833.3 | 4202.7 | 3977.8 | 4004.2 | 4035.1 | 4030.7 | 4074.8 | 4092.4 | 4123.3 |
| 20°   | 6645.8  | 5975.4  | 4586.3 | 3999.8 | 3841.0 | 3832.2 | 3827.8 | 3832.2 | 3876.3 | 3902.8 | 3880.7 |
| 22.5° | 6919.2  | 6001.9  | 4379.1 | 3805.8 | 3677.9 | 3642.6 | 3585.3 | 3642.6 | 3620.5 | 3629.4 | 3655.8 |
| 25°   | 7157.3  | 6006.3  | 4083.6 | 3660.2 | 3514.7 | 3435.3 | 3391.2 | 3386.8 | 3347.1 | 3342.7 | 3342.7 |
| 27.5° | 7355.8  | 5856.4  | 3823.4 | 3457.4 | 3320.7 | 3245.7 | 3241.3 | 3192.8 | 3091.4 | 3025.2 | 3034.0 |
| 30°   | 7510.1  | 5741.7  | 3642.6 | 3281.0 | 3148.7 | 3135.5 | 3095.8 | 2985.5 | 2853.2 | 2769.4 | 2769.4 |
| 32.5° | 7783.5  | 5512.4  | 3395.6 | 3100.2 | 3034.0 | 3016.4 | 2923.8 | 2826.8 | 2703.3 | 2623.9 | 2610.7 |
| 35°   | 7986.4  | 5300.7  | 3232.5 | 2945.8 | 2915.0 | 2879.7 | 2800.3 | 2694.5 | 2659.2 | 2641.5 | 2654.8 |
| 37.5° | 8215.7  | 5062.6  | 3034.0 | 2813.5 | 2844.4 | 2778.3 | 2685.6 | 2637.1 | 2760.6 | 2729.7 | 2743.0 |
| 40°   | 8581.7  | 4895.0  | 2840.0 | 2734.2 | 2765.0 | 2690.1 | 2571.0 | 2553.3 | 2707.7 | 2597.4 | 2571.0 |
| 42.5° | 9252.0  | 4890.6  | 2720.9 | 2615.1 | 2637.1 | 2579.8 | 2474.0 | 2465.1 | 2526.9 | 2394.6 | 2354.9 |
| 45°   | 10085.5 | 5045.0  | 2632.7 | 2526.9 | 2509.2 | 2500.4 | 2465.1 | 2425.5 | 2372.5 | 2200.6 | 2156.5 |
| 47.5° | 11082.1 | 5296.3  | 2615.1 | 2394.6 | 2416.6 | 2491.6 | 2447.5 | 2346.1 | 2209.4 | 2099.1 | 2077.1 |
| 50°   | 12290.5 | 5816.7  | 2571.0 | 2297.6 | 2337.3 | 2456.3 | 2421.0 | 2279.9 | 2156.5 | 2085.9 | 2072.7 |
| 52.5° | 13626.7 | 6473.8  | 2513.7 | 2147.6 | 2235.8 | 2425.5 | 2443.1 | 2310.8 | 2130.0 | 2068.3 | 2059.4 |
| 55°   | 15201.0 | 7444.0  | 2447.5 | 1984.5 | 2116.8 | 2394.6 | 2443.1 | 2222.6 | 2094.7 | 2094.7 | 2085.9 |
| 57.5° | 18310.0 | 9190.3  | 2310.8 | 1834.5 | 2010.9 | 2337.3 | 2372.5 | 2227.0 | 2099.1 | 2099.1 | 2081.5 |
| 60°   | 22869.9 | 11915.6 | 2050.6 | 1719.9 | 1909.5 | 2257.9 | 2319.6 | 2160.9 | 2050.6 | 2077.1 | 2072.7 |
| 62.5° | 26437.5 | 12744.7 | 1830.1 | 1609.6 | 1808.1 | 2112.4 | 2249.1 | 2090.3 | 1993.3 | 2090.3 | 2099.1 |
| 65°   | 27200.4 | 11906.8 | 1605.2 | 1490.6 | 1667.0 | 1971.2 | 2147.6 | 1988.9 | 1909.5 | 2099.1 | 2107.9 |
| 66°   | 26927.0 | 11254.1 | 1525.8 | 1455.3 | 1605.2 | 1900.7 | 2085.9 | 1953.6 | 1865.4 | 2090.3 | 2094.7 |
| 67.5° | 25709.9 | 10275.1 | 1437.6 | 1380.3 | 1521.4 | 1799.2 | 2015.3 | 1905.1 | 1794.8 | 2063.8 | 2024.2 |
| 70°   | 23063.9 | 8714.0  | 1287.7 | 1248.0 | 1402.4 | 1631.7 | 1852.2 | 1781.6 | 1684.6 | 1900.7 | 1830.1 |
| 72.5° | 17763.2 | 6963.3  | 1128.9 | 1133.4 | 1265.6 | 1459.7 | 1689.0 | 1640.5 | 1556.7 | 1667.0 | 1622.9 |
| 75°   | 10817.5 | 4449.6  | 983.4  | 992.2  | 1102.5 | 1296.5 | 1534.7 | 1499.4 | 1397.9 | 1459.7 | 1437.6 |
| 77.5° | 4793.6  | 2205.0  | 829.1  | 846.7  | 934.9  | 1142.2 | 1336.2 | 1278.9 | 1173.0 | 1186.3 | 1177.4 |
| 80°   | 1861.0  | 1045.2  | 674.7  | 696.8  | 754.1  | 912.9  | 1106.9 | 1054.0 | 961.4  | 943.7  | 934.9  |
| 82.5° | 895.2   | 582.1   | 520.4  | 529.2  | 551.2  | 727.6  | 952.5  | 886.4  | 762.9  | 683.5  | 683.5  |
| 85°   | 449.8   | 361.6   | 366.0  | 335.2  | 366.0  | 493.9  | 643.8  | 538.0  | 445.4  | 396.9  | 405.7  |
| 87.5° | 180.8   | 180.8   | 180.8  | 154.3  | 163.2  | 233.7  | 299.9  | 202.9  | 185.2  | 110.2  | 110.2  |
| 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)