

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: P481434

Luminaire Tested: **IFLD-S-SA3C-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481434  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

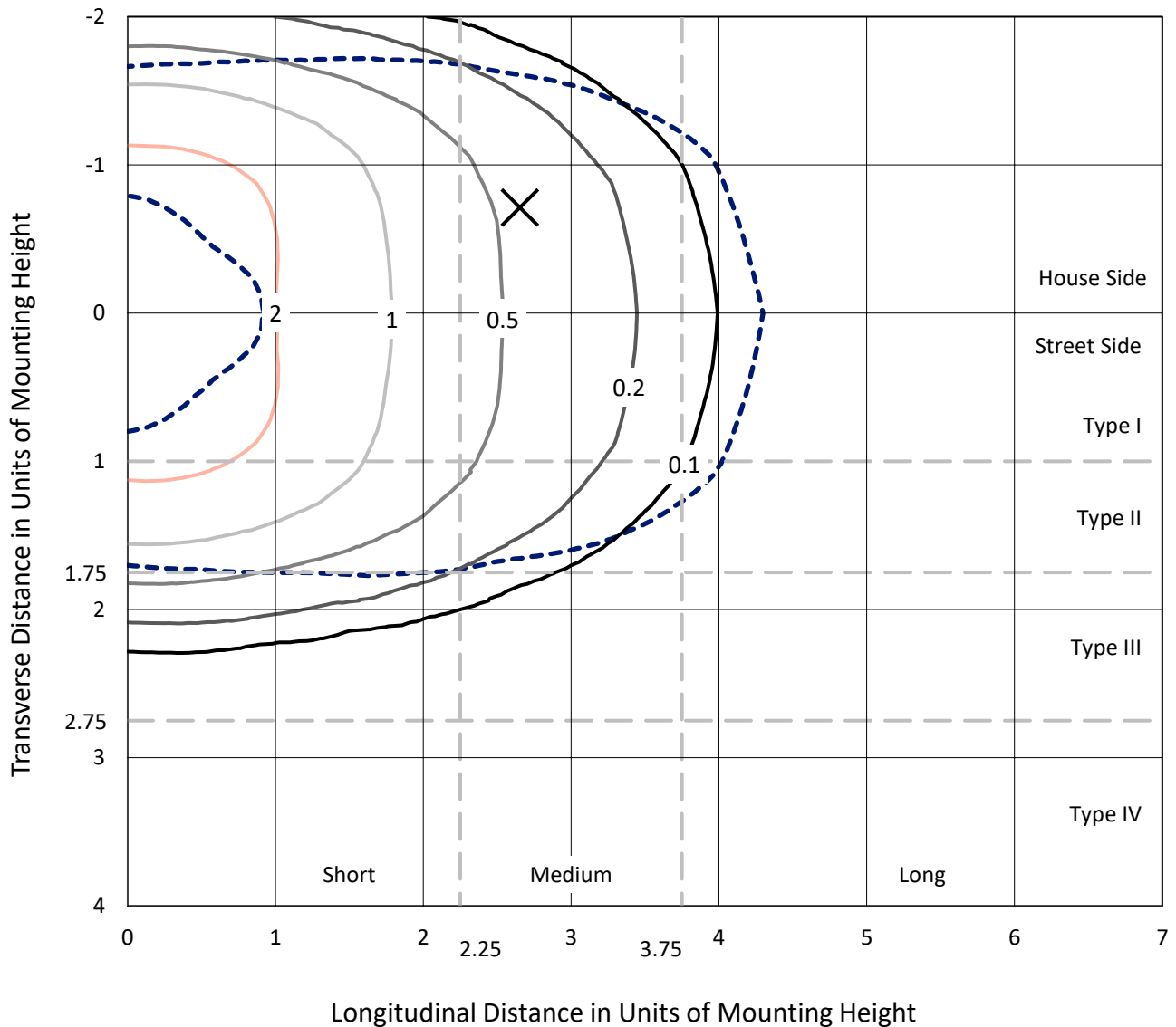
Lumens per Lamp: N/A  
Luminaire Lumens: 17336.6 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 160.8  
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: P481434  
 CATALOG NUMBER: IFLD-S-SA3C-830-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

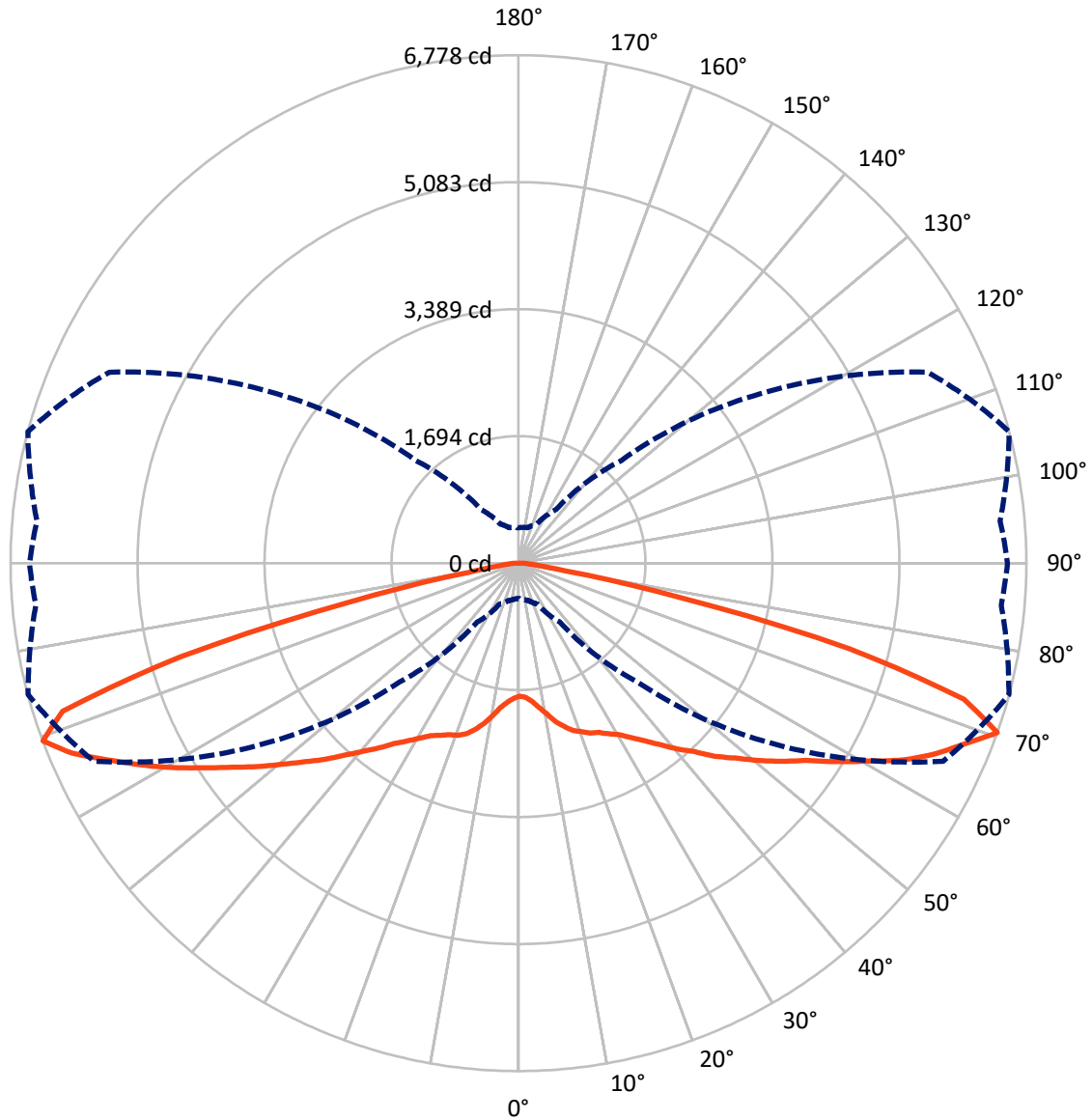
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P481434  
CATALOG NUMBER: IFLD-S-SA3C-830-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481434  
 CATALOG NUMBER: IFLD-S-SA3C-830-U-RW

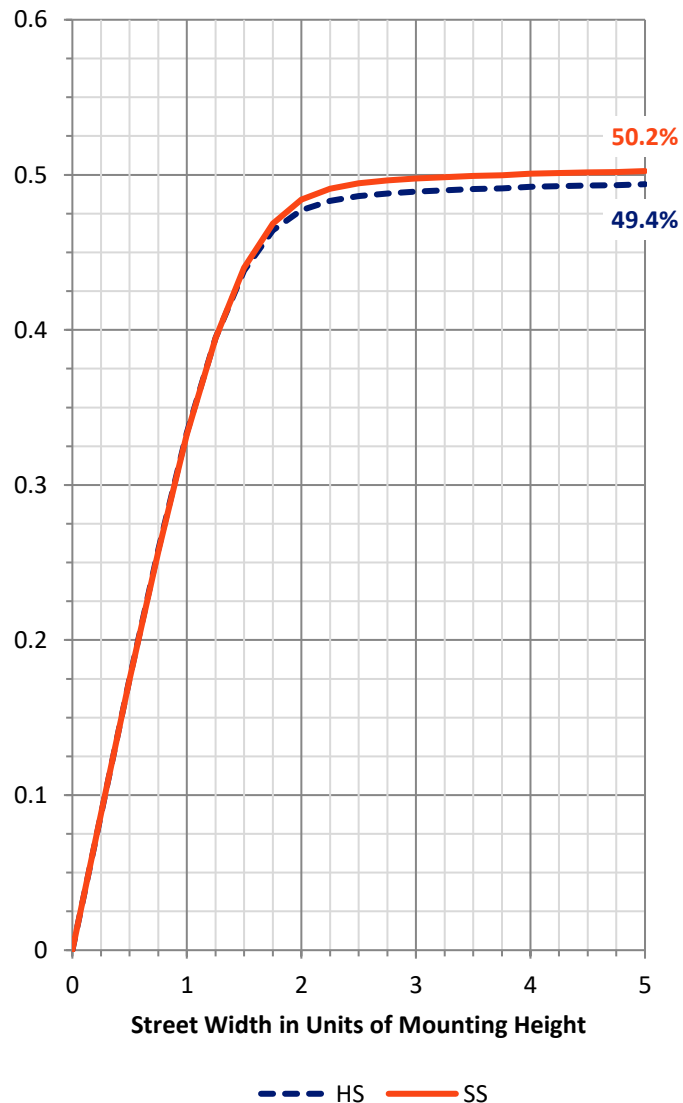
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8606.6   | 0.0    | 8606.6  |
|                    | % Fixture | 49.6     | 0.0    | 49.6    |
| <b>Street Side</b> | Lumens    | 8730.0   | 0.0    | 8730.0  |
|                    | % Fixture | 50.4     | 0.0    | 50.4    |
| <b>Total</b>       | Lumens    | 17336.6  | 0.0    | 17336.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 176.7   | 1.0       |
| 10°-20°   | 601.6   | 3.5       |
| 20°-30°   | 1165.0  | 6.7       |
| 30°-40°   | 1970.5  | 11.4      |
| 40°-50°   | 3143.5  | 18.1      |
| 50°-60°   | 4302.7  | 24.8      |
| 60°-70°   | 4055.6  | 23.4      |
| 70°-80°   | 1786.6  | 10.3      |
| 80°-90°   | 134.4   | 0.8       |
| 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°    | 17336.6 | 100.0     |
| 0°-180°   | 17336.6 | 100.0     |

**Coefficient of Utilization**

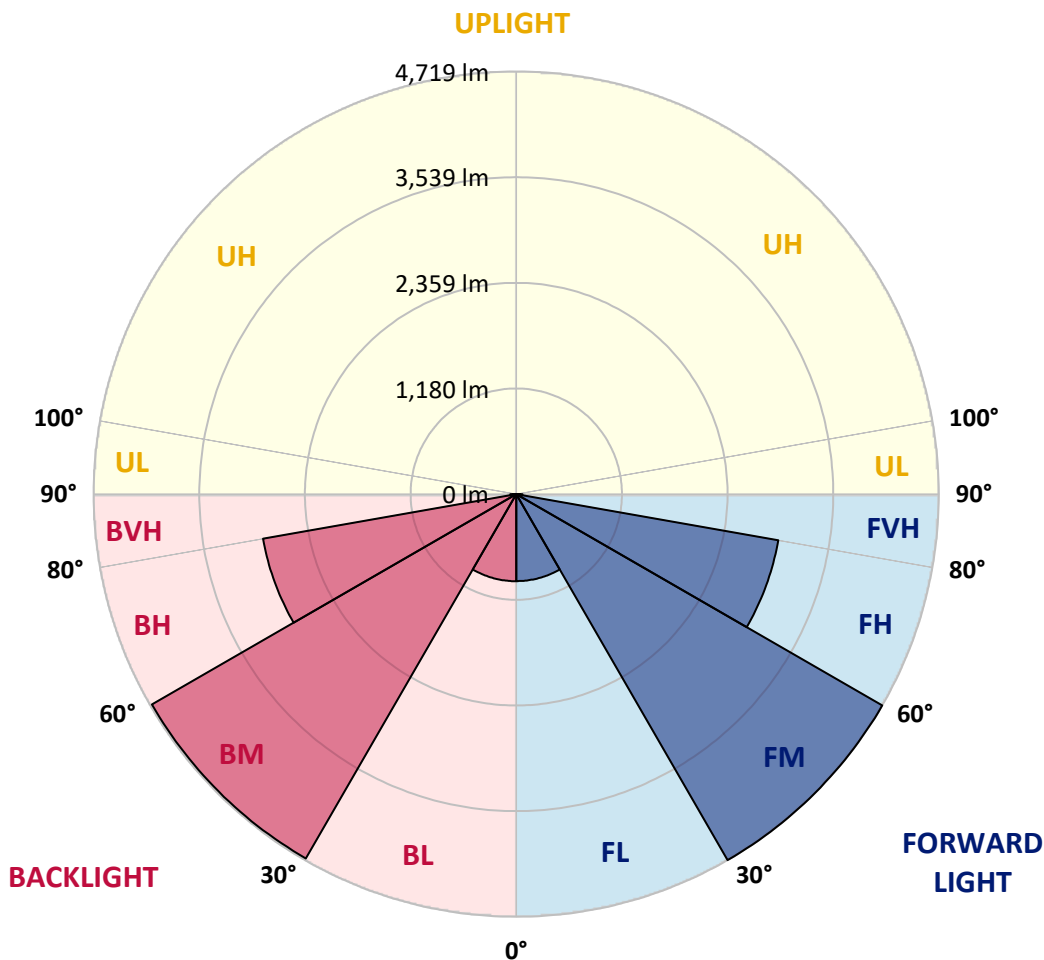


REPORT NUMBER: P481434  
 CATALOG NUMBER: IFLD-S-SA3C-830-U-RW

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 971.1  | 5.6       |                         |      |         |
| FM (30°-60°)   | 4718.9 | 27.2      |                         |      |         |
| FH (60°-80°)   | 2971.3 | 17.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 68.7   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 972.2  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 4697.8 | 27.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2870.9 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 65.8   | 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-G4**  
 Type II Short





REPORT NUMBER: P481434

CATALOG NUMBER: IFLD-S-SA3C-830-U-RW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 |
| 2.5°  | 1764.0 | 1764.0 | 1762.2 | 1771.5 | 1780.9 | 1784.6 | 1792.1 | 1793.9 | 1805.1 | 1795.8 | 1814.5 |
| 5°    | 1758.4 | 1756.6 | 1771.5 | 1793.9 | 1793.9 | 1818.2 | 1833.2 | 1853.7 | 1859.3 | 1870.6 | 1874.3 |
| 7.5°  | 1797.7 | 1793.9 | 1786.5 | 1810.8 | 1831.3 | 1868.7 | 1889.2 | 1924.7 | 1937.8 | 1952.8 | 1969.6 |
| 10°   | 1822.0 | 1822.0 | 1814.5 | 1857.5 | 1876.2 | 1926.6 | 1971.5 | 2007.0 | 2057.4 | 2074.2 | 2076.1 |
| 12.5° | 1825.7 | 1831.3 | 1853.7 | 1909.8 | 1962.1 | 2027.5 | 2061.2 | 2128.4 | 2178.9 | 2210.7 | 2221.9 |
| 15°   | 1881.8 | 1870.6 | 1894.8 | 1971.5 | 2048.1 | 2106.0 | 2165.8 | 2214.4 | 2287.3 | 2328.4 | 2354.5 |
| 17.5° | 1932.2 | 1921.0 | 1965.9 | 2057.4 | 2135.9 | 2225.6 | 2277.9 | 2330.2 | 2382.6 | 2419.9 | 2421.8 |
| 20°   | 2012.6 | 2021.9 | 2061.2 | 2160.2 | 2263.0 | 2341.5 | 2401.3 | 2410.6 | 2436.8 | 2491.0 | 2481.6 |
| 22.5° | 2111.6 | 2104.1 | 2186.4 | 2294.7 | 2406.9 | 2472.3 | 2505.9 | 2481.6 | 2468.5 | 2526.5 | 2539.5 |
| 25°   | 2210.7 | 2233.1 | 2307.8 | 2408.7 | 2543.3 | 2631.1 | 2640.5 | 2573.2 | 2524.6 | 2545.1 | 2539.5 |
| 27.5° | 2362.0 | 2365.8 | 2444.2 | 2563.8 | 2700.2 | 2776.9 | 2771.3 | 2676.0 | 2582.5 | 2584.4 | 2588.1 |
| 30°   | 2556.4 | 2537.7 | 2623.6 | 2732.0 | 2866.6 | 2935.7 | 2945.0 | 2808.6 | 2683.4 | 2646.1 | 2655.4 |
| 32.5° | 2743.2 | 2765.7 | 2840.4 | 2963.7 | 3062.8 | 3102.0 | 3081.5 | 2960.0 | 2797.4 | 2747.0 | 2752.6 |
| 35°   | 2982.4 | 2978.7 | 3081.5 | 3186.1 | 3260.9 | 3268.3 | 3251.5 | 3074.0 | 2920.8 | 2855.4 | 2829.2 |
| 37.5° | 3238.4 | 3272.1 | 3339.3 | 3425.3 | 3503.8 | 3507.5 | 3416.0 | 3273.9 | 3085.2 | 2976.8 | 3008.6 |
| 40°   | 3524.3 | 3561.7 | 3610.3 | 3735.5 | 3793.4 | 3733.6 | 3640.2 | 3447.7 | 3251.5 | 3156.2 | 3171.2 |
| 42.5° | 3776.6 | 3793.4 | 3892.5 | 4040.1 | 4068.1 | 4042.0 | 3903.7 | 3670.1 | 3442.1 | 3337.5 | 3344.9 |
| 45°   | 4008.3 | 4030.8 | 4159.7 | 4292.4 | 4357.8 | 4312.9 | 4152.2 | 3929.8 | 3664.5 | 3574.8 | 3539.3 |
| 47.5° | 4221.4 | 4266.2 | 4391.4 | 4527.8 | 4628.7 | 4632.5 | 4434.4 | 4165.3 | 3885.0 | 3767.3 | 3765.4 |
| 50°   | 4365.2 | 4430.7 | 4554.0 | 4709.1 | 4856.7 | 4914.6 | 4716.6 | 4426.9 | 4126.1 | 4000.9 | 3987.8 |
| 52.5° | 4443.7 | 4511.0 | 4634.3 | 4875.4 | 5039.8 | 5129.5 | 5036.1 | 4671.7 | 4408.2 | 4277.4 | 4256.9 |
| 55°   | 4348.4 | 4393.3 | 4595.1 | 4933.3 | 5187.5 | 5335.1 | 5273.4 | 5009.9 | 4688.5 | 4582.0 | 4600.7 |
| 57.5° | 3942.9 | 4036.4 | 4284.9 | 4707.2 | 5183.7 | 5546.3 | 5540.6 | 5329.5 | 5011.8 | 4910.9 | 4914.6 |
| 60°   | 3245.9 | 3324.4 | 3630.9 | 4221.4 | 4974.4 | 5632.2 | 5830.3 | 5639.7 | 5374.3 | 5256.6 | 5252.9 |
| 62.5° | 2291.0 | 2390.0 | 2745.1 | 3389.8 | 4357.8 | 5512.6 | 6162.9 | 6030.2 | 5729.4 | 5643.4 | 5675.2 |
| 65°   | 1281.9 | 1341.7 | 1670.6 | 2253.6 | 3320.7 | 4854.8 | 6222.7 | 6435.7 | 6090.0 | 5959.2 | 5964.8 |
| 67.5° | 685.8  | 708.2  | 861.5  | 1182.9 | 2031.3 | 3743.0 | 5619.1 | 6669.3 | 6480.6 | 6254.5 | 6219.0 |
| 70°   | 470.9  | 478.4  | 517.6  | 605.5  | 960.5  | 2238.7 | 4238.2 | 6252.6 | 6774.0 | 6465.6 | 6525.4 |
| 72.5° | 398.0  | 394.3  | 403.6  | 413.0  | 502.7  | 1001.6 | 2487.2 | 4811.9 | 6394.6 | 6278.8 | 6256.4 |
| 75°   | 345.7  | 343.8  | 347.6  | 338.2  | 349.4  | 441.0  | 1100.7 | 2999.2 | 4681.1 | 5224.8 | 5308.9 |
| 77.5° | 285.9  | 287.8  | 289.6  | 280.3  | 276.6  | 291.5  | 442.9  | 1317.4 | 2304.1 | 2543.3 | 2743.2 |
| 80°   | 216.8  | 220.5  | 235.5  | 226.1  | 211.2  | 213.0  | 261.6  | 441.0  | 661.5  | 599.8  | 618.5  |
| 82.5° | 147.6  | 149.5  | 181.3  | 170.1  | 158.8  | 143.9  | 168.2  | 228.0  | 257.9  | 196.2  | 171.9  |
| 85°   | 104.6  | 102.8  | 117.7  | 108.4  | 100.9  | 72.9   | 100.9  | 128.9  | 155.1  | 97.2   | 87.8   |
| 87.5° | 24.3   | 24.3   | 48.6   | 39.2   | 37.4   | 29.9   | 39.2   | 50.5   | 67.3   | 43.0   | 39.2   |
| 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: P481434  
 CATALOG NUMBER: IFLD-S-SA3C-830-U-RW

**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 | 1775.3 |
| 2.5°  | 1808.9 | 1792.1 | 1792.1 | 1788.3 | 1773.4 | 1769.6 | 1756.6 | 1760.3 | 1751.0 | 1741.6 |
| 5°    | 1872.4 | 1850.0 | 1850.0 | 1818.2 | 1788.3 | 1784.6 | 1769.6 | 1769.6 | 1754.7 | 1758.4 |
| 7.5°  | 1960.3 | 1939.7 | 1906.1 | 1878.0 | 1836.9 | 1820.1 | 1792.1 | 1788.3 | 1784.6 | 1777.1 |
| 10°   | 2064.9 | 2038.7 | 2005.1 | 1947.2 | 1913.5 | 1881.8 | 1853.7 | 1814.5 | 1805.1 | 1807.0 |
| 12.5° | 2206.9 | 2165.8 | 2092.9 | 2042.5 | 1999.5 | 1958.4 | 1917.3 | 1859.3 | 1846.3 | 1851.9 |
| 15°   | 2307.8 | 2255.5 | 2182.6 | 2163.9 | 2106.0 | 2055.6 | 1988.3 | 1922.9 | 1900.5 | 1894.8 |
| 17.5° | 2390.0 | 2347.1 | 2304.1 | 2276.1 | 2229.3 | 2167.7 | 2074.2 | 1999.5 | 1949.0 | 1943.4 |
| 20°   | 2457.3 | 2401.3 | 2391.9 | 2408.7 | 2350.8 | 2309.7 | 2195.7 | 2104.1 | 2036.9 | 2008.8 |
| 22.5° | 2498.4 | 2462.9 | 2489.1 | 2504.0 | 2500.3 | 2431.2 | 2313.4 | 2206.9 | 2122.8 | 2096.7 |
| 25°   | 2543.3 | 2502.2 | 2595.6 | 2646.1 | 2659.1 | 2545.1 | 2453.6 | 2313.4 | 2231.2 | 2214.4 |
| 27.5° | 2565.7 | 2580.7 | 2689.0 | 2795.6 | 2786.2 | 2698.4 | 2575.0 | 2449.8 | 2384.4 | 2354.5 |
| 30°   | 2631.1 | 2655.4 | 2819.8 | 2939.4 | 2941.3 | 2855.4 | 2761.9 | 2619.9 | 2547.0 | 2533.9 |
| 32.5° | 2748.8 | 2778.7 | 2954.4 | 3081.5 | 3103.9 | 3038.5 | 2945.0 | 2857.2 | 2782.5 | 2752.6 |
| 35°   | 2838.5 | 2915.1 | 3113.2 | 3229.1 | 3288.9 | 3249.6 | 3197.3 | 3105.8 | 3027.3 | 3001.1 |
| 37.5° | 2967.5 | 3074.0 | 3264.6 | 3421.6 | 3488.8 | 3485.1 | 3445.9 | 3346.8 | 3281.4 | 3259.0 |
| 40°   | 3152.5 | 3259.0 | 3432.8 | 3640.2 | 3765.4 | 3759.8 | 3737.4 | 3660.8 | 3563.6 | 3552.4 |
| 42.5° | 3348.7 | 3436.5 | 3662.6 | 3899.9 | 4079.3 | 4060.7 | 4000.9 | 3911.2 | 3843.9 | 3828.9 |
| 45°   | 3539.3 | 3675.7 | 3885.0 | 4189.6 | 4324.1 | 4370.9 | 4299.8 | 4146.6 | 4070.0 | 4060.7 |
| 47.5° | 3778.5 | 3886.9 | 4148.5 | 4421.3 | 4621.3 | 4628.7 | 4507.3 | 4365.2 | 4225.1 | 4255.0 |
| 50°   | 3991.5 | 4135.4 | 4400.8 | 4699.7 | 4938.9 | 4853.0 | 4697.9 | 4520.3 | 4419.4 | 4380.2 |
| 52.5° | 4219.5 | 4395.1 | 4703.5 | 5008.1 | 5140.8 | 5054.8 | 4802.5 | 4604.4 | 4451.2 | 4434.4 |
| 55°   | 4552.1 | 4643.7 | 5047.3 | 5280.9 | 5323.9 | 5142.6 | 4770.8 | 4490.4 | 4292.4 | 4243.8 |
| 57.5° | 4890.3 | 4996.9 | 5350.0 | 5551.9 | 5507.0 | 5094.0 | 4565.2 | 4131.7 | 3871.9 | 3802.8 |
| 60°   | 5232.3 | 5363.1 | 5660.2 | 5845.2 | 5613.5 | 4759.5 | 3984.0 | 3425.3 | 3122.6 | 3060.9 |
| 62.5° | 5613.5 | 5783.6 | 6048.9 | 6114.3 | 5297.7 | 4098.0 | 3161.8 | 2472.3 | 2165.8 | 2063.0 |
| 65°   | 5951.8 | 6125.5 | 6452.6 | 6058.3 | 4626.9 | 3057.2 | 2044.3 | 1412.7 | 1186.6 | 1104.4 |
| 67.5° | 6230.2 | 6426.4 | 6587.1 | 5361.3 | 3387.9 | 1790.2 | 1065.2 | 743.7  | 659.6  | 629.7  |
| 70°   | 6450.7 | 6777.7 | 6026.5 | 3941.1 | 1936.0 | 872.7  | 575.6  | 489.6  | 478.4  | 470.9  |
| 72.5° | 6258.2 | 6215.2 | 4499.8 | 2274.2 | 848.4  | 480.3  | 416.7  | 403.6  | 401.8  | 403.6  |
| 75°   | 5118.3 | 4565.2 | 2690.9 | 988.5  | 426.1  | 347.6  | 345.7  | 340.1  | 349.4  | 349.4  |
| 77.5° | 2483.5 | 2171.4 | 1124.9 | 424.2  | 280.3  | 272.8  | 282.2  | 282.2  | 282.2  | 282.2  |
| 80°   | 575.6  | 637.2  | 401.8  | 257.9  | 203.7  | 203.7  | 224.2  | 226.1  | 216.8  | 213.0  |
| 82.5° | 196.2  | 261.6  | 220.5  | 162.6  | 134.5  | 151.4  | 170.1  | 173.8  | 143.9  | 145.8  |
| 85°   | 97.2   | 153.2  | 119.6  | 93.4   | 69.1   | 93.4   | 110.3  | 115.9  | 99.0   | 95.3   |
| 87.5° | 44.8   | 67.3   | 44.8   | 31.8   | 24.3   | 33.6   | 31.8   | 26.2   | 14.9   | 14.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)