

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: P476903

Luminaire Tested: **IFLD-S-SA2A-730-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476903  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-730-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

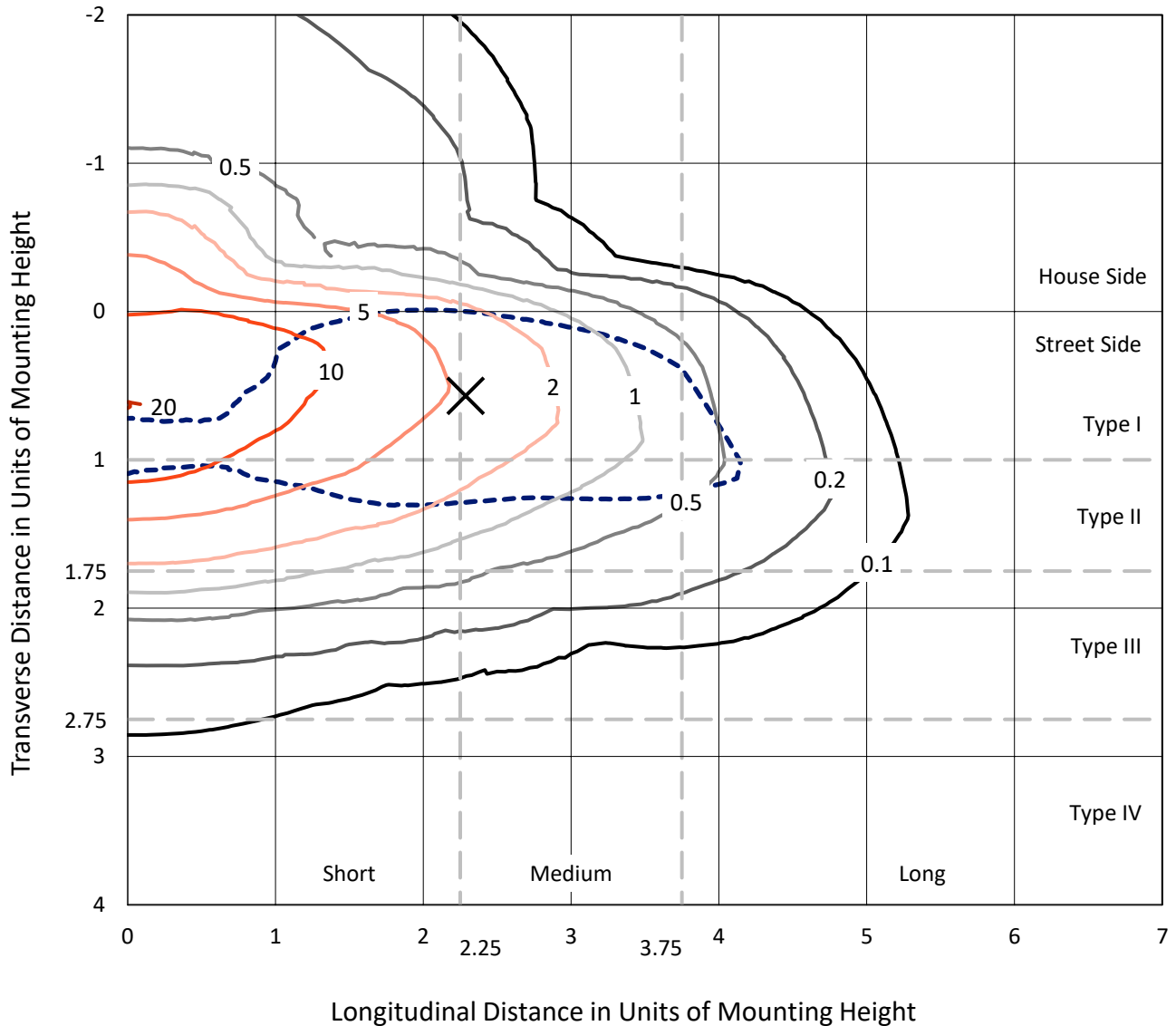
Lumens per Lamp: N/A  
Luminaire Lumens: 8454.1 lumens  
Efficiency: N/A  
Efficacy: 132.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

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### Iso-Footcandle Lines of Horizontal Illumination

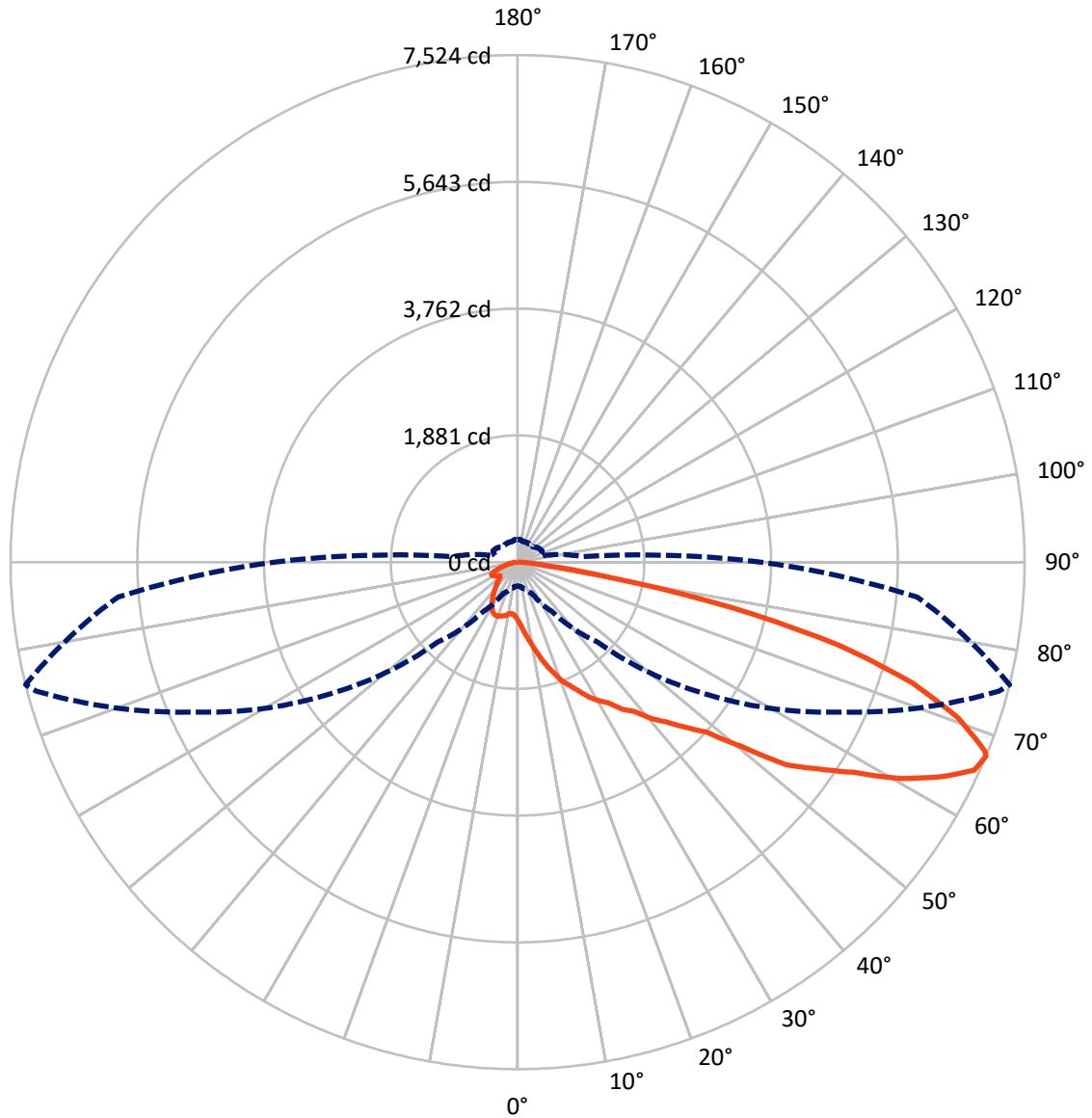
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P476903  
CATALOG NUMBER: IFLD-S-SA2A-730-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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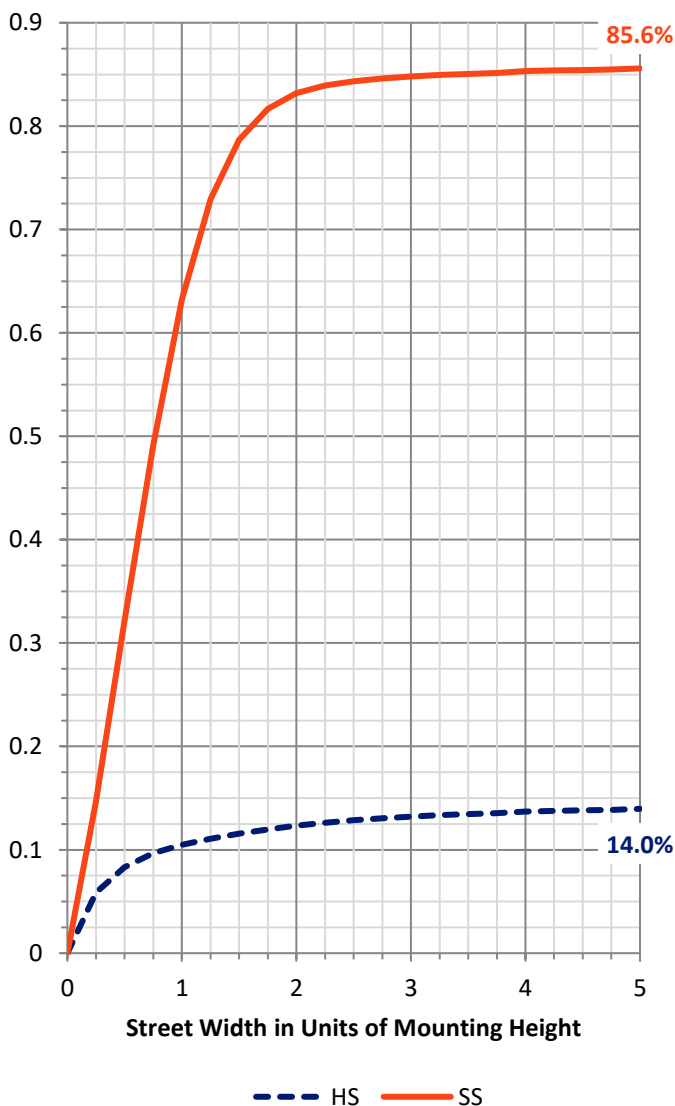
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1202.7   | 0.0    | 1202.7 |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 7251.4   | 0.0    | 7251.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 8454.1   | 0.0    | 8454.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.2  | 1.2       |
| 10°-20°   | 375.9  | 4.4       |
| 20°-30°   | 698.8  | 8.3       |
| 30°-40°   | 1107.7 | 13.1      |
| 40°-50°   | 1532.1 | 18.1      |
| 50°-60°   | 1884.5 | 22.3      |
| 60°-70°   | 1753.6 | 20.7      |
| 70°-80°   | 880.0  | 10.4      |
| 80°-90°   | 121.3  | 1.4       |
| 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°    | 8454.1 | 100.0     |
| 0°-180°   | 8454.1 | 100.0     |

**Coefficient of Utilization**



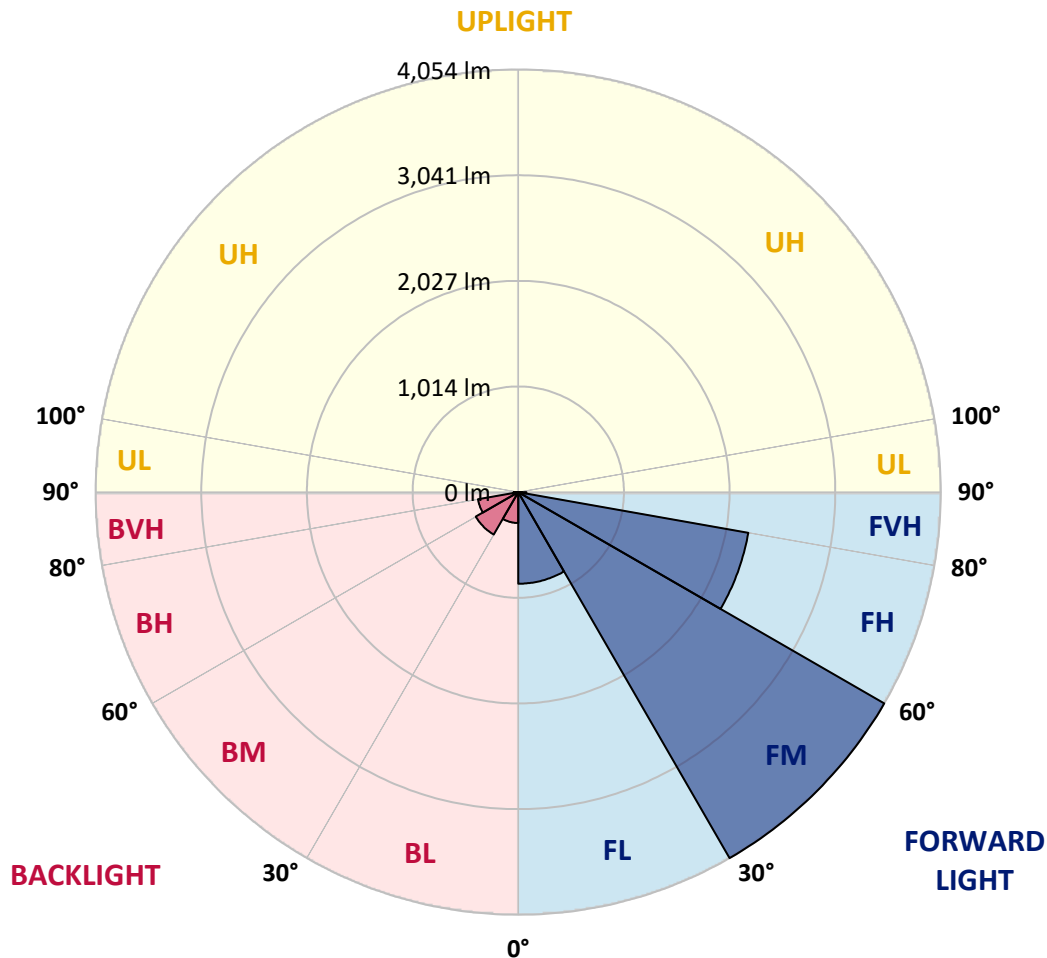
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 CATALOG NUMBER: IFLD-S-SA2A-730-U-T2R

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 878.7  | 10.4      |                         |      |         |
| FM (30°-60°)   | 4054.3 | 48.0      |                         |      |         |
| FH (60°-80°)   | 2241.1 | 26.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 77.3   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 296.2  | 3.5       | B1/500                  |      |         |
| BM (30°-60°)   | 470.0  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 392.5  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 44.0   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Medium





REPORT NUMBER: P476903

CATALOG NUMBER: IFLD-S-SA2A-730-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  | 865.1  |
| 2.5°  | 1200.4 | 1186.0 | 1171.5 | 1140.7 | 1130.1 | 1101.2 | 1048.2 | 989.4  | 941.3  | 934.5  | 900.8  |
| 5°    | 1489.4 | 1468.2 | 1463.4 | 1446.1 | 1391.2 | 1335.3 | 1248.6 | 1154.2 | 1036.6 | 1045.3 | 929.7  |
| 7.5°  | 1706.2 | 1693.7 | 1667.7 | 1651.3 | 1618.5 | 1544.4 | 1454.8 | 1329.5 | 1180.2 | 1151.3 | 994.2  |
| 10°   | 1870.0 | 1852.7 | 1851.7 | 1837.2 | 1819.9 | 1743.8 | 1675.4 | 1506.8 | 1315.1 | 1275.6 | 1073.2 |
| 12.5° | 1952.8 | 1950.0 | 2001.0 | 2001.0 | 1994.3 | 1962.5 | 1844.9 | 1690.8 | 1443.2 | 1429.7 | 1164.8 |
| 15°   | 2042.4 | 2018.4 | 2062.7 | 2096.4 | 2113.7 | 2130.1 | 2032.8 | 1870.0 | 1607.0 | 1581.0 | 1263.0 |
| 17.5° | 2042.4 | 2040.5 | 2084.8 | 2140.7 | 2231.3 | 2252.5 | 2199.5 | 2034.7 | 1742.8 | 1723.6 | 1370.9 |
| 20°   | 2007.8 | 2035.7 | 2066.5 | 2141.7 | 2239.9 | 2325.7 | 2341.1 | 2203.3 | 1893.1 | 1877.7 | 1493.3 |
| 22.5° | 2169.6 | 2142.6 | 2174.4 | 2203.3 | 2279.4 | 2409.5 | 2451.9 | 2351.7 | 2051.1 | 1992.3 | 1604.1 |
| 25°   | 2441.3 | 2423.0 | 2399.9 | 2357.5 | 2389.3 | 2446.1 | 2510.7 | 2461.5 | 2186.0 | 2120.5 | 1711.0 |
| 27.5° | 2706.2 | 2707.2 | 2657.1 | 2564.6 | 2496.2 | 2507.8 | 2583.9 | 2557.9 | 2299.7 | 2270.8 | 1784.2 |
| 30°   | 3082.9 | 3059.8 | 3003.9 | 2878.7 | 2744.8 | 2634.9 | 2622.4 | 2647.5 | 2444.2 | 2388.3 | 1889.3 |
| 32.5° | 3365.2 | 3370.0 | 3291.0 | 3110.9 | 2927.8 | 2838.2 | 2728.4 | 2739.0 | 2535.7 | 2494.3 | 1973.1 |
| 35°   | 3593.5 | 3587.8 | 3531.9 | 3382.6 | 3165.8 | 3057.9 | 2909.5 | 2848.8 | 2748.6 | 2683.1 | 2101.2 |
| 37.5° | 3840.2 | 3793.0 | 3702.4 | 3533.8 | 3395.1 | 3245.8 | 3101.2 | 2964.4 | 2890.3 | 2811.3 | 2211.0 |
| 40°   | 3939.4 | 3939.4 | 3818.0 | 3740.9 | 3576.2 | 3463.5 | 3370.0 | 3116.7 | 3062.7 | 3047.3 | 2351.7 |
| 42.5° | 3869.1 | 3912.4 | 3862.3 | 3774.7 | 3707.2 | 3564.6 | 3539.6 | 3274.7 | 3275.6 | 3244.8 | 2520.3 |
| 45°   | 3862.3 | 3802.6 | 3761.2 | 3783.3 | 3751.5 | 3743.8 | 3807.4 | 3493.4 | 3499.1 | 3495.3 | 2746.7 |
| 47.5° | 3668.7 | 3641.7 | 3703.4 | 3740.0 | 3766.0 | 3885.5 | 4068.5 | 3754.4 | 3795.9 | 3767.0 | 3007.8 |
| 50°   | 3476.0 | 3471.2 | 3509.7 | 3642.7 | 3755.4 | 3951.9 | 4317.1 | 4157.1 | 4293.0 | 4291.1 | 3480.8 |
| 52.5° | 2948.1 | 2999.1 | 3150.4 | 3431.7 | 3710.1 | 4042.5 | 4504.9 | 4671.6 | 4930.8 | 5001.1 | 3872.9 |
| 55°   | 2443.2 | 2416.3 | 2639.8 | 3048.3 | 3512.6 | 4078.1 | 4715.0 | 4980.9 | 5362.4 | 5413.4 | 4275.6 |
| 57.5° | 1900.8 | 1950.9 | 2127.2 | 2519.3 | 3104.1 | 3901.8 | 4869.1 | 5286.3 | 5849.9 | 5889.4 | 4742.9 |
| 60°   | 1418.2 | 1424.9 | 1618.5 | 1934.5 | 2560.8 | 3503.9 | 4919.2 | 5599.4 | 6408.7 | 6521.4 | 5232.3 |
| 62.5° | 892.1  | 932.6  | 1080.0 | 1391.2 | 1927.8 | 2947.1 | 4694.7 | 5789.2 | 6994.4 | 7024.3 | 5725.6 |
| 65°   | 480.7  | 506.8  | 617.6  | 813.1  | 1346.9 | 2229.3 | 4099.3 | 5675.5 | 7269.9 | 7447.2 | 5945.2 |
| 67°   | 355.5  | 360.3  | 411.4  | 519.3  | 900.8  | 1678.3 | 3418.2 | 5264.1 | 7395.2 | 7524.3 | 5953.9 |
| 67.5° | 333.3  | 340.1  | 380.5  | 466.3  | 798.7  | 1545.3 | 3240.0 | 5117.7 | 7339.3 | 7478.0 | 5886.5 |
| 70°   | 285.2  | 287.1  | 296.7  | 320.8  | 448.0  | 929.7  | 2206.2 | 4193.8 | 6802.7 | 6935.6 | 5413.4 |
| 72.5° | 253.4  | 255.3  | 259.2  | 264.0  | 303.5  | 537.6  | 1342.0 | 3227.4 | 5912.5 | 6124.4 | 4670.6 |
| 75°   | 222.5  | 229.3  | 231.2  | 227.4  | 258.2  | 349.7  | 713.9  | 2371.9 | 4822.9 | 4926.0 | 3632.1 |
| 77.5° | 188.8  | 191.7  | 195.6  | 199.4  | 230.3  | 261.1  | 343.0  | 1601.2 | 3310.3 | 3247.7 | 1964.4 |
| 80°   | 159.0  | 159.9  | 162.8  | 165.7  | 199.4  | 199.4  | 194.6  | 865.1  | 1446.1 | 1382.5 | 663.8  |
| 82.5° | 113.7  | 120.4  | 127.2  | 134.9  | 165.7  | 133.9  | 127.2  | 385.4  | 457.6  | 435.5  | 224.5  |
| 85°   | 44.3   | 54.0   | 83.8   | 92.5   | 105.0  | 72.3   | 84.8   | 166.7  | 190.8  | 188.8  | 83.8   |
| 87.5° | 7.7    | 8.7    | 23.1   | 35.6   | 38.5   | 25.0   | 40.5   | 59.7   | 71.3   | 77.1   | 30.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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 CATALOG NUMBER: IFLD-S-SA2A-730-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 865.1  | 865.1  | 865.1 | 865.1 | 865.1 | 865.1 | 865.1 | 865.1 | 865.1 | 865.1 | 865.1 |
| 2.5°  | 872.9  | 843.0  | 807.3 | 771.7 | 748.6 | 712.0 | 709.1 | 686.9 | 684.0 | 676.3 | 680.2 |
| 5°    | 879.6  | 844.0  | 771.7 | 714.9 | 688.8 | 667.6 | 672.5 | 662.8 | 659.9 | 655.1 | 647.4 |
| 7.5°  | 932.6  | 862.3  | 754.4 | 705.2 | 686.0 | 676.3 | 676.3 | 664.8 | 656.1 | 661.9 | 667.6 |
| 10°   | 967.3  | 870.9  | 767.8 | 718.7 | 703.3 | 682.1 | 689.8 | 675.4 | 680.2 | 668.6 | 668.6 |
| 12.5° | 1023.1 | 920.1  | 795.8 | 738.9 | 713.9 | 694.6 | 702.3 | 686.0 | 682.1 | 683.1 | 680.2 |
| 15°   | 1098.3 | 952.8  | 808.3 | 750.5 | 733.2 | 709.1 | 703.3 | 688.8 | 674.4 | 669.6 | 675.4 |
| 17.5° | 1168.6 | 993.3  | 817.0 | 757.2 | 729.3 | 702.3 | 695.6 | 677.3 | 672.5 | 658.0 | 646.5 |
| 20°   | 1252.4 | 1041.5 | 828.5 | 763.0 | 714.9 | 687.9 | 670.5 | 652.2 | 635.9 | 627.2 | 631.0 |
| 22.5° | 1308.3 | 1066.5 | 834.3 | 751.5 | 693.7 | 668.6 | 632.0 | 619.5 | 596.4 | 586.7 | 579.0 |
| 25°   | 1399.8 | 1097.3 | 819.9 | 719.7 | 656.1 | 615.6 | 582.9 | 565.5 | 549.1 | 536.6 | 532.8 |
| 27.5° | 1423.0 | 1120.5 | 786.1 | 665.7 | 596.4 | 554.0 | 526.0 | 504.8 | 494.2 | 475.0 | 471.1 |
| 30°   | 1490.4 | 1097.3 | 736.1 | 600.2 | 539.5 | 496.2 | 468.2 | 452.8 | 427.8 | 422.9 | 412.3 |
| 32.5° | 1533.8 | 1104.1 | 672.5 | 536.6 | 474.0 | 435.5 | 417.2 | 401.7 | 395.0 | 371.9 | 366.1 |
| 35°   | 1606.0 | 1081.0 | 607.9 | 477.9 | 420.0 | 390.2 | 374.8 | 370.0 | 347.8 | 337.2 | 327.6 |
| 37.5° | 1652.3 | 1067.5 | 543.4 | 411.4 | 361.3 | 348.8 | 353.6 | 333.3 | 306.4 | 286.1 | 279.4 |
| 40°   | 1733.2 | 1062.6 | 470.1 | 356.5 | 320.8 | 317.9 | 333.3 | 294.8 | 245.7 | 228.3 | 218.7 |
| 42.5° | 1849.8 | 1029.9 | 413.3 | 307.3 | 289.0 | 301.5 | 304.4 | 245.7 | 217.7 | 203.3 | 196.5 |
| 45°   | 1961.5 | 1036.6 | 357.4 | 254.3 | 251.5 | 269.8 | 263.0 | 208.1 | 191.7 | 181.1 | 186.9 |
| 47.5° | 2176.4 | 1070.4 | 302.5 | 212.0 | 226.4 | 243.7 | 204.2 | 185.9 | 170.5 | 162.8 | 163.8 |
| 50°   | 2508.7 | 1103.1 | 254.3 | 193.6 | 213.9 | 220.6 | 175.3 | 168.6 | 167.6 | 152.2 | 151.3 |
| 52.5° | 2708.2 | 1090.6 | 245.7 | 216.8 | 229.3 | 220.6 | 190.8 | 185.9 | 178.2 | 171.5 | 163.8 |
| 55°   | 3025.1 | 1127.2 | 264.0 | 253.4 | 260.1 | 212.0 | 213.9 | 212.0 | 206.2 | 188.8 | 193.6 |
| 57.5° | 3277.5 | 1151.3 | 288.1 | 283.2 | 279.4 | 220.6 | 223.5 | 224.5 | 220.6 | 212.9 | 219.7 |
| 60°   | 3624.4 | 1199.5 | 313.1 | 314.1 | 315.0 | 239.9 | 244.7 | 250.5 | 249.5 | 246.6 | 248.6 |
| 62.5° | 3837.3 | 1177.3 | 341.0 | 356.5 | 351.6 | 279.4 | 278.4 | 282.3 | 282.3 | 287.1 | 290.0 |
| 65°   | 3805.5 | 1095.4 | 355.5 | 394.0 | 369.0 | 308.3 | 308.3 | 310.2 | 311.2 | 320.8 | 321.8 |
| 67°   | 3614.7 | 949.0  | 347.8 | 399.8 | 369.0 | 319.9 | 319.9 | 321.8 | 315.0 | 340.1 | 332.4 |
| 67.5° | 3526.1 | 905.6  | 341.0 | 395.0 | 366.1 | 318.9 | 318.9 | 319.9 | 314.1 | 338.2 | 330.5 |
| 70°   | 3066.6 | 672.5  | 293.8 | 349.7 | 339.1 | 310.2 | 310.2 | 304.4 | 299.6 | 331.4 | 324.7 |
| 72.5° | 2617.6 | 488.5  | 236.0 | 297.7 | 306.4 | 298.7 | 300.6 | 286.1 | 272.6 | 294.8 | 289.0 |
| 75°   | 2004.9 | 359.4  | 184.0 | 229.3 | 259.2 | 279.4 | 291.9 | 255.3 | 238.0 | 243.7 | 233.1 |
| 77.5° | 1118.5 | 234.1  | 145.5 | 169.6 | 197.5 | 260.1 | 280.4 | 230.3 | 194.6 | 187.9 | 187.9 |
| 80°   | 379.6  | 136.8  | 106.9 | 126.2 | 135.8 | 230.3 | 262.0 | 186.9 | 153.2 | 146.4 | 141.6 |
| 82.5° | 143.5  | 83.8   | 73.2  | 86.7  | 86.7  | 182.1 | 213.9 | 143.5 | 115.6 | 149.3 | 152.2 |
| 85°   | 65.5   | 50.1   | 48.2  | 50.1  | 50.1  | 111.8 | 151.3 | 93.5  | 104.0 | 89.6  | 79.0  |
| 87.5° | 26.0   | 24.1   | 22.2  | 21.2  | 17.3  | 19.3  | 52.0  | 25.0  | 47.2  | 12.5  | 11.6  |
| 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)