

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: P482212

Luminaire Tested: **IFLD-S-SA3A-830-U-T2R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482212  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

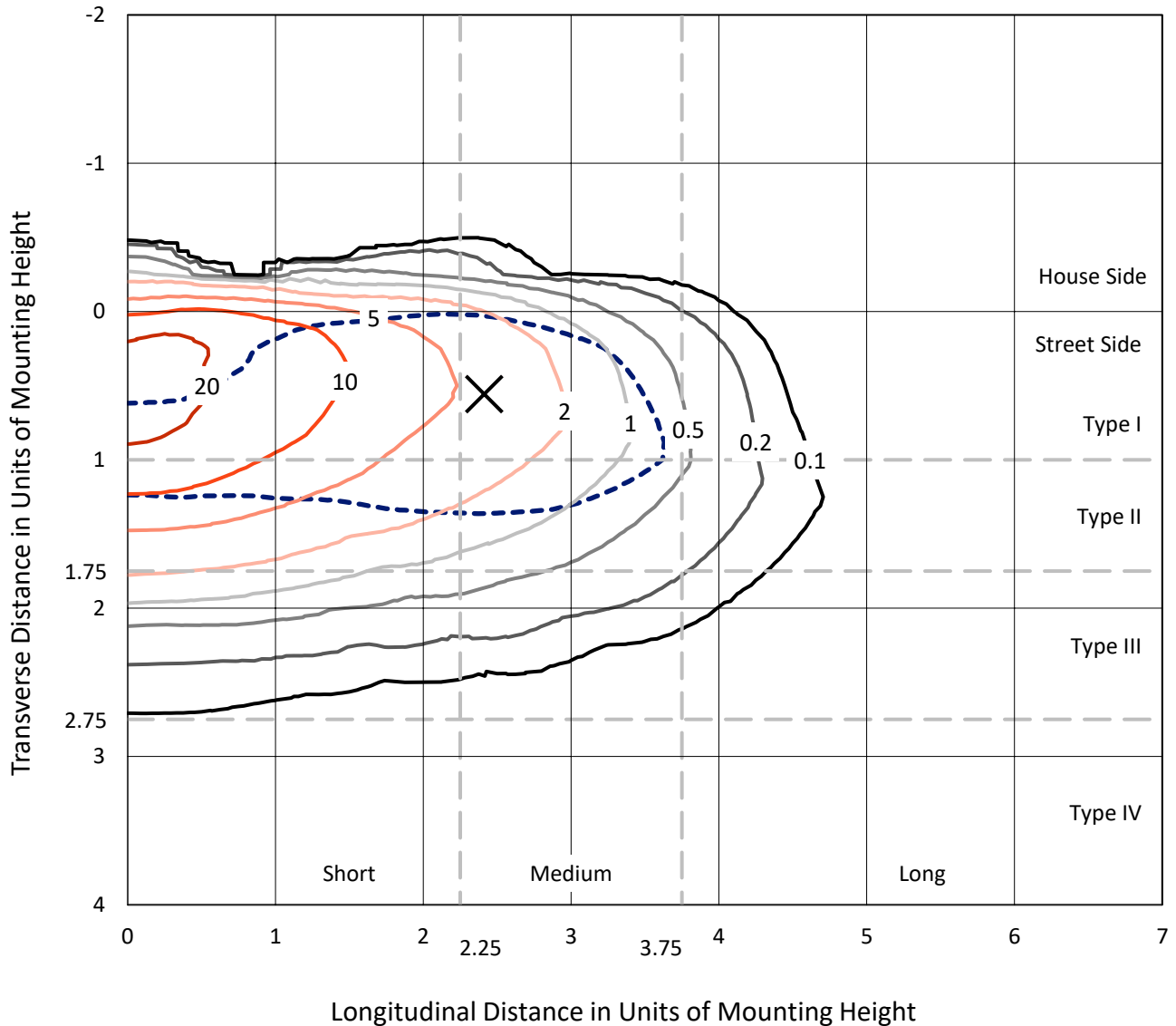
Lumens per Lamp: N/A  
Luminaire Lumens: 8595.2 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

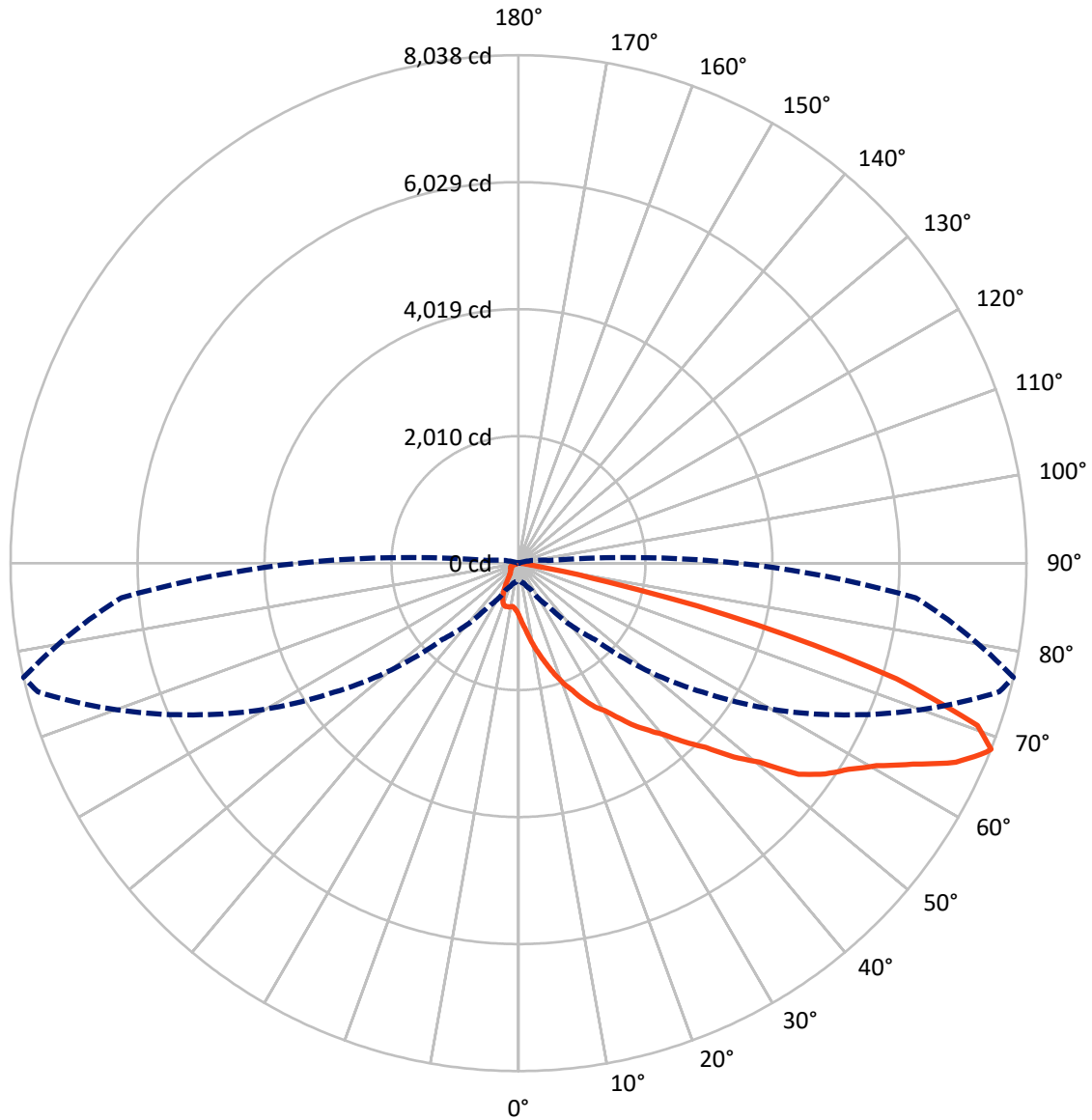
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 389.8    | 0.0    | 389.8  |
|                    | % Fixture | 4.5      | 0.0    | 4.5    |
| <b>Street Side</b> | Lumens    | 8205.5   | 0.0    | 8205.5 |
|                    | % Fixture | 95.5     | 0.0    | 95.5   |
| <b>Total</b>       | Lumens    | 8595.2   | 0.0    | 8595.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 96.2   | 1.1       |
| 10°-20°   | 354.6  | 4.1       |
| 20°-30°   | 687.2  | 8.0       |
| 30°-40°   | 1198.1 | 13.9      |
| 40°-50°   | 1754.7 | 20.4      |
| 50°-60°   | 2061.5 | 24.0      |
| 60°-70°   | 1740.8 | 20.3      |
| 70°-80°   | 674.8  | 7.9       |
| 80°-90°   | 27.4   | 0.3       |
| 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°    | 8595.2 | 100.0     |
| 0°-180°   | 8595.2 | 100.0     |

**Coefficient of Utilization**

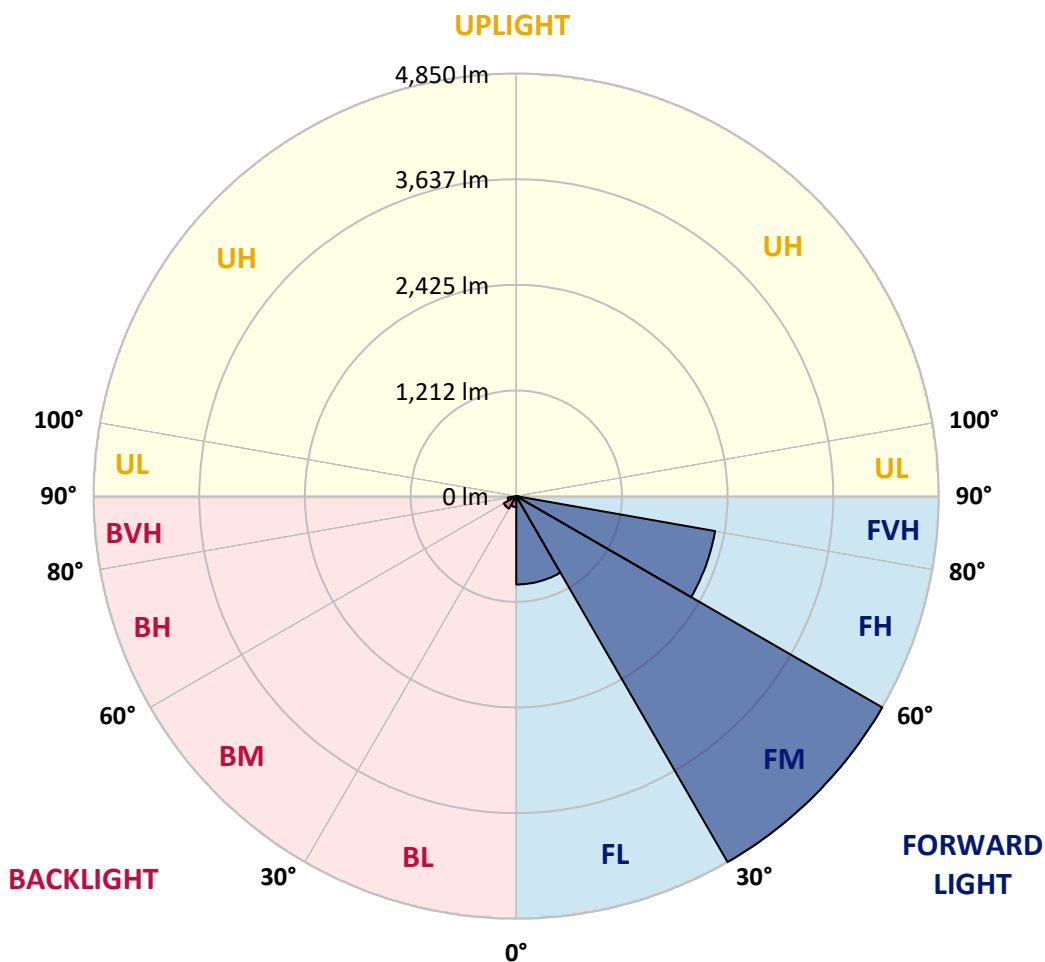


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1013.5 | 11.8      |                         |      |         |
| FM (30°-60°)   | 4849.6 | 56.4      |                         |      |         |
| FH (60°-80°)   | 2317.1 | 27.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 25.3   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 124.5  | 1.4       | B1/500                  |      |         |
| BM (30°-60°)   | 164.7  | 1.9       | B0/220                  |      |         |
| BH (60°-80°)   | 98.4   | 1.1       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 2.1    | 0.0       |                         |      | G0/10   |
| 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  | 823.0  |
| 2.5°  | 1250.5 | 1226.8 | 1201.9 | 1194.8 | 1148.7 | 1096.6 | 1048.0 | 1000.6 | 921.3  | 922.5  | 868.0  |
| 5°    | 1611.7 | 1582.1 | 1561.9 | 1557.2 | 1485.0 | 1395.0 | 1321.5 | 1187.7 | 1056.3 | 1026.7 | 927.2  |
| 7.5°  | 1908.9 | 1899.4 | 1869.8 | 1845.0 | 1791.7 | 1681.5 | 1595.1 | 1403.3 | 1203.1 | 1170.0 | 999.4  |
| 10°   | 2088.9 | 2103.1 | 2116.1 | 2084.2 | 2042.7 | 1963.4 | 1845.0 | 1637.7 | 1370.1 | 1328.7 | 1093.0 |
| 12.5° | 2280.7 | 2257.1 | 2265.3 | 2291.4 | 2236.9 | 2219.2 | 2072.3 | 1879.3 | 1565.5 | 1486.1 | 1211.4 |
| 15°   | 2330.5 | 2339.9 | 2360.1 | 2435.9 | 2472.6 | 2421.7 | 2294.9 | 2074.7 | 1768.0 | 1657.9 | 1321.5 |
| 17.5° | 2363.6 | 2358.9 | 2383.8 | 2497.4 | 2553.1 | 2601.6 | 2522.3 | 2292.6 | 1944.4 | 1846.1 | 1458.9 |
| 20°   | 2405.1 | 2379.0 | 2433.5 | 2505.7 | 2634.8 | 2736.6 | 2733.1 | 2511.7 | 2129.2 | 2025.0 | 1595.1 |
| 22.5° | 2559.0 | 2538.9 | 2582.7 | 2589.8 | 2679.8 | 2821.9 | 2856.2 | 2690.5 | 2318.6 | 2190.7 | 1741.9 |
| 25°   | 2843.2 | 2879.9 | 2827.8 | 2782.8 | 2810.1 | 2903.6 | 2928.5 | 2849.1 | 2509.3 | 2392.0 | 1888.8 |
| 27.5° | 3258.9 | 3254.1 | 3151.1 | 3093.1 | 3028.0 | 3016.1 | 3033.9 | 2997.2 | 2659.7 | 2575.6 | 2009.6 |
| 30°   | 3705.3 | 3666.2 | 3571.5 | 3431.8 | 3288.5 | 3199.7 | 3174.8 | 3136.9 | 2836.1 | 2714.1 | 2129.2 |
| 32.5° | 4060.6 | 4081.9 | 3976.5 | 3794.1 | 3556.1 | 3436.5 | 3316.9 | 3275.4 | 3030.3 | 2922.6 | 2266.5 |
| 35°   | 4387.4 | 4359.0 | 4274.9 | 4121.0 | 3907.8 | 3714.8 | 3527.7 | 3438.9 | 3263.6 | 3157.0 | 2418.1 |
| 37.5° | 4629.0 | 4664.5 | 4504.6 | 4357.8 | 4145.8 | 3986.0 | 3802.4 | 3608.2 | 3504.0 | 3361.9 | 2602.8 |
| 40°   | 4857.5 | 4801.9 | 4694.1 | 4559.1 | 4362.5 | 4240.6 | 4119.8 | 3816.6 | 3759.8 | 3576.2 | 2811.2 |
| 42.5° | 4817.3 | 4820.8 | 4761.6 | 4652.7 | 4510.5 | 4440.7 | 4399.2 | 4070.0 | 3991.9 | 3874.6 | 3014.9 |
| 45°   | 4652.7 | 4666.9 | 4687.0 | 4633.7 | 4645.5 | 4575.7 | 4687.0 | 4361.3 | 4284.4 | 4160.0 | 3249.4 |
| 47.5° | 4471.5 | 4495.2 | 4490.4 | 4587.5 | 4697.7 | 4721.3 | 4999.6 | 4684.6 | 4651.5 | 4582.8 | 3573.9 |
| 50°   | 4170.7 | 4180.2 | 4271.3 | 4447.8 | 4598.2 | 4845.7 | 5234.1 | 5037.5 | 5088.4 | 4953.4 | 3959.9 |
| 52.5° | 3656.8 | 3691.1 | 3925.6 | 4177.8 | 4480.9 | 4908.4 | 5392.8 | 5562.1 | 5691.2 | 5552.6 | 4330.6 |
| 55°   | 3006.6 | 3054.0 | 3284.9 | 3757.4 | 4201.5 | 4813.7 | 5537.2 | 5839.2 | 6100.9 | 5891.3 | 4555.5 |
| 57.5° | 2419.3 | 2424.0 | 2631.3 | 3119.1 | 3804.8 | 4627.8 | 5610.7 | 5974.2 | 6325.9 | 6157.7 | 4830.3 |
| 60°   | 1843.8 | 1824.8 | 2010.7 | 2433.5 | 3136.9 | 4170.7 | 5427.1 | 6042.9 | 6606.6 | 6509.4 | 5160.7 |
| 62.5° | 1186.6 | 1156.9 | 1359.4 | 1771.5 | 2450.1 | 3409.3 | 5060.0 | 6044.1 | 7044.7 | 7008.0 | 5713.7 |
| 65°   | 587.4  | 567.2  | 741.3  | 1085.9 | 1695.7 | 2607.6 | 4536.6 | 6021.6 | 7579.9 | 7603.6 | 6252.5 |
| 67.5° | 310.3  | 317.4  | 373.0  | 550.6  | 978.1  | 1842.6 | 3747.9 | 5757.5 | 7853.5 | 7986.1 | 6382.7 |
| 68°   | 285.4  | 287.8  | 331.6  | 458.3  | 849.1  | 1708.8 | 3560.8 | 5680.5 | 7874.8 | 8038.2 | 6310.5 |
| 70°   | 232.1  | 235.7  | 251.0  | 287.8  | 459.5  | 1111.9 | 2747.3 | 5026.9 | 7553.9 | 7703.1 | 5712.5 |
| 72.5° | 184.7  | 195.4  | 204.9  | 220.3  | 270.0  | 583.8  | 1708.8 | 3917.3 | 6240.6 | 6257.2 | 4446.6 |
| 75°   | 140.9  | 149.2  | 168.2  | 181.2  | 210.8  | 320.9  | 813.5  | 2388.5 | 4094.9 | 3893.6 | 2619.4 |
| 77.5° | 108.9  | 116.0  | 124.3  | 142.1  | 176.4  | 216.7  | 248.7  | 1013.7 | 1739.6 | 1431.7 | 740.1  |
| 80°   | 65.1   | 69.9   | 97.1   | 111.3  | 153.9  | 146.8  | 98.3   | 281.8  | 352.9  | 278.3  | 135.0  |
| 82.5° | 37.9   | 41.4   | 55.7   | 85.3   | 107.8  | 79.3   | 58.0   | 87.6   | 86.4   | 75.8   | 45.0   |
| 85°   | 1.2    | 2.4    | 30.8   | 50.9   | 37.9   | 21.3   | 35.5   | 36.7   | 30.8   | 28.4   | 20.1   |
| 87.5° | 0.0    | 1.2    | 8.3    | 7.1    | 8.3    | 4.7    | 7.1    | 9.5    | 11.8   | 10.7   | 8.3    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 823.0  | 823.0  | 823.0 | 823.0 | 823.0 | 823.0 | 823.0 | 823.0 | 823.0 | 823.0 | 823.0 |
| 2.5°  | 831.3  | 805.2  | 747.2 | 703.4 | 656.0 | 627.6 | 599.2 | 581.4 | 572.0 | 566.0 | 570.8 |
| 5°    | 852.6  | 798.1  | 704.6 | 621.7 | 567.2 | 530.5 | 493.8 | 474.9 | 457.1 | 447.6 | 453.5 |
| 7.5°  | 900.0  | 818.3  | 663.1 | 573.1 | 509.2 | 452.4 | 406.2 | 369.5 | 348.1 | 329.2 | 332.8 |
| 10°   | 958.0  | 830.1  | 664.3 | 544.7 | 452.4 | 362.4 | 297.2 | 251.0 | 225.0 | 208.4 | 207.2 |
| 12.5° | 1017.2 | 876.3  | 669.1 | 516.3 | 382.5 | 272.4 | 195.4 | 161.0 | 145.7 | 137.4 | 137.4 |
| 15°   | 1107.2 | 917.7  | 657.2 | 464.2 | 290.1 | 177.6 | 133.8 | 122.0 | 116.0 | 108.9 | 110.1 |
| 17.5° | 1185.4 | 984.1  | 651.3 | 386.0 | 198.9 | 127.9 | 111.3 | 98.3  | 92.4  | 85.3  | 85.3  |
| 20°   | 1290.8 | 1025.5 | 619.3 | 298.4 | 137.4 | 106.6 | 90.0  | 78.2  | 68.7  | 62.8  | 63.9  |
| 22.5° | 1386.7 | 1057.5 | 562.5 | 203.7 | 105.4 | 84.1  | 66.3  | 54.5  | 46.2  | 39.1  | 40.3  |
| 25°   | 1490.9 | 1089.4 | 479.6 | 125.5 | 74.6  | 52.1  | 35.5  | 26.1  | 17.8  | 13.0  | 13.0  |
| 27.5° | 1565.5 | 1098.9 | 371.8 | 74.6  | 45.0  | 23.7  | 8.3   | 1.2   | 0.0   | 0.0   | 0.0   |
| 30°   | 1641.3 | 1102.5 | 257.0 | 40.3  | 17.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.5° | 1727.7 | 1101.3 | 161.0 | 21.3  | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 35°   | 1794.0 | 1081.2 | 77.0  | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 37.5° | 1894.7 | 1051.6 | 23.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 40°   | 2009.6 | 998.3  | 4.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 42.5° | 2112.6 | 943.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 45°   | 2229.8 | 876.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 47.5° | 2435.9 | 847.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 50°   | 2704.7 | 825.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 52.5° | 2870.5 | 759.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 2956.9 | 690.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 3084.8 | 657.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 3274.3 | 659.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 3570.3 | 692.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 3733.7 | 659.6  | 4.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 3595.2 | 528.1  | 22.5  | 5.9   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 68°   | 3475.6 | 485.5  | 22.5  | 5.9   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 2872.8 | 316.2  | 21.3  | 5.9   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 2092.4 | 175.3  | 17.8  | 4.7   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 1217.3 | 87.6   | 13.0  | 4.7   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 317.4  | 43.8   | 10.7  | 5.9   | 3.6   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 62.8   | 28.4   | 9.5   | 7.1   | 4.7   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 29.6   | 20.1   | 9.5   | 7.1   | 5.9   | 3.6   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 15.4   | 9.5    | 9.5   | 7.1   | 7.1   | 4.7   | 2.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 7.1    | 3.6    | 3.6   | 3.6   | 3.6   | 2.4   | 1.2   | 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)