

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: P483631

Luminaire Tested: **IFLD-S-SA6A-740-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483631  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-740-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

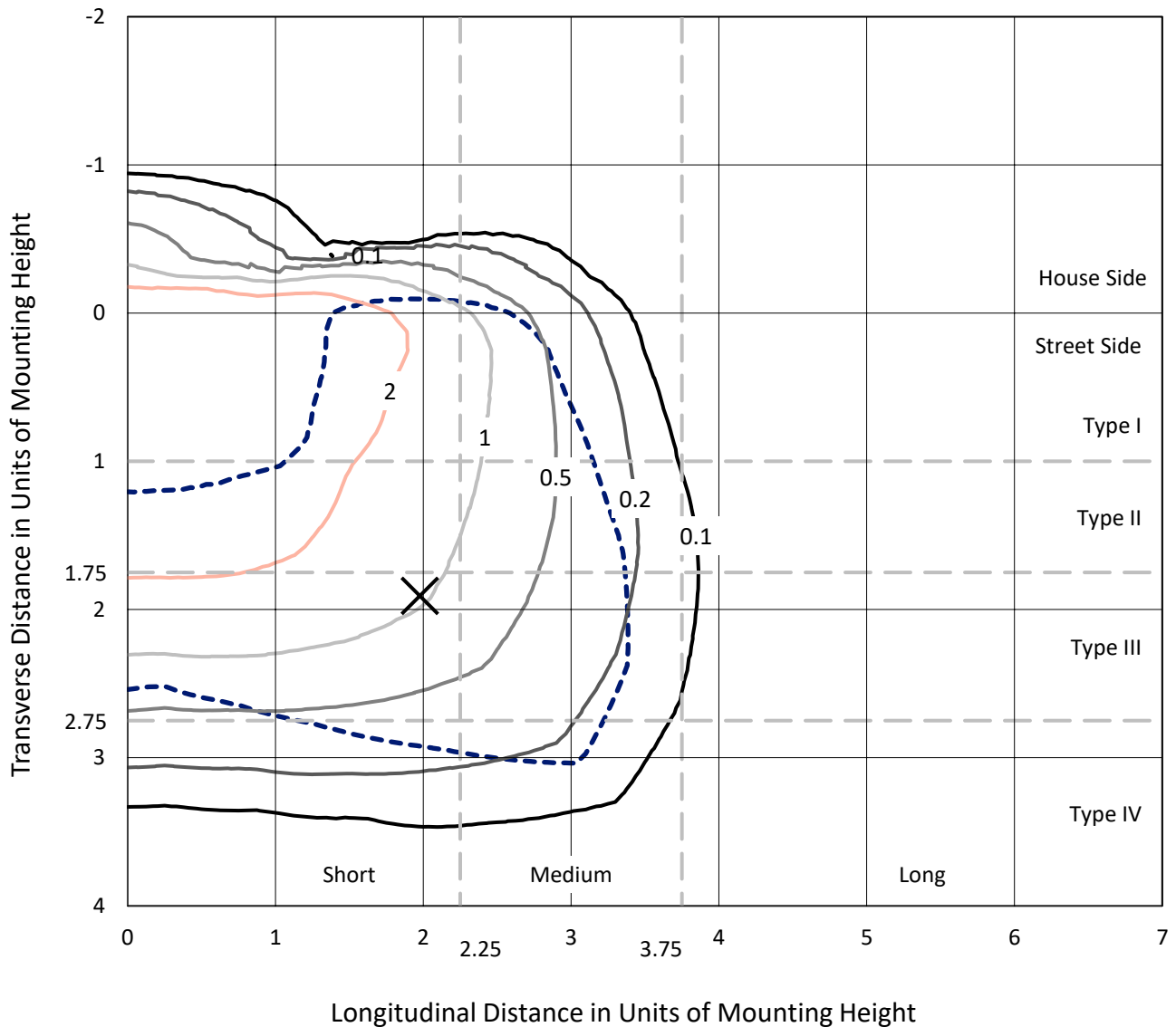
Lumens per Lamp: N/A  
Luminaire Lumens: 19914.2 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6  
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

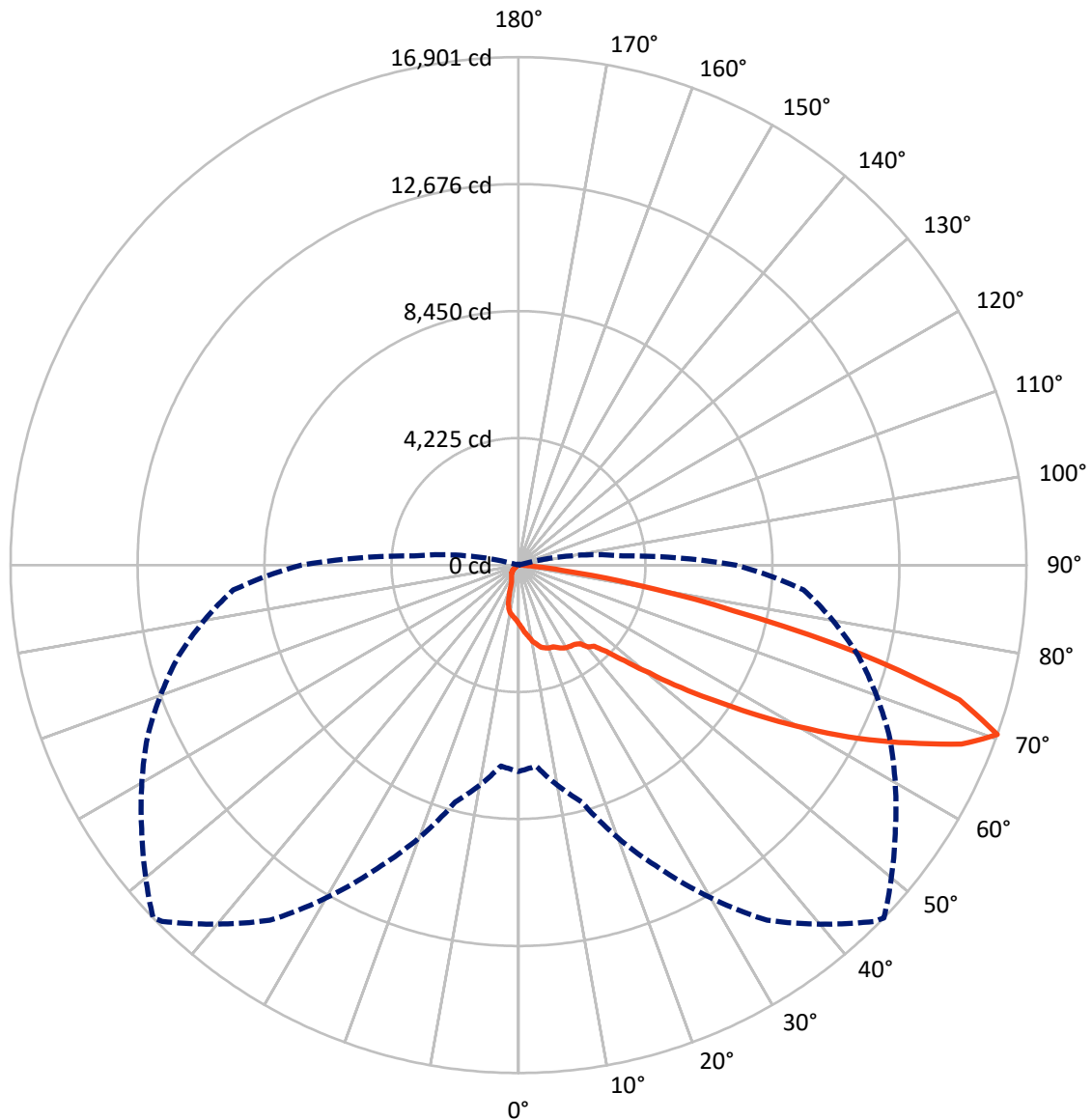
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1981.5   | 0.0    | 1981.5  |
|                    | % Fixture | 10.0     | 0.0    | 10.0    |
| <b>Street Side</b> | Lumens    | 17932.6  | 0.0    | 17932.6 |
|                    | % Fixture | 90.0     | 0.0    | 90.0    |
| <b>Total</b>       | Lumens    | 19914.2  | 0.0    | 19914.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 194.9   | 1.0       |
| 10°-20°   | 588.7   | 3.0       |
| 20°-30°   | 942.9   | 4.7       |
| 30°-40°   | 1345.9  | 6.8       |
| 40°-50°   | 2324.0  | 11.7      |
| 50°-60°   | 4449.5  | 22.3      |
| 60°-70°   | 6589.0  | 33.1      |
| 70°-80°   | 3263.5  | 16.4      |
| 80°-90°   | 215.7   | 1.1       |
| 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°    | 19914.2 | 100.0     |
| 0°-180°   | 19914.2 | 100.0     |

**Coefficient of Utilization**

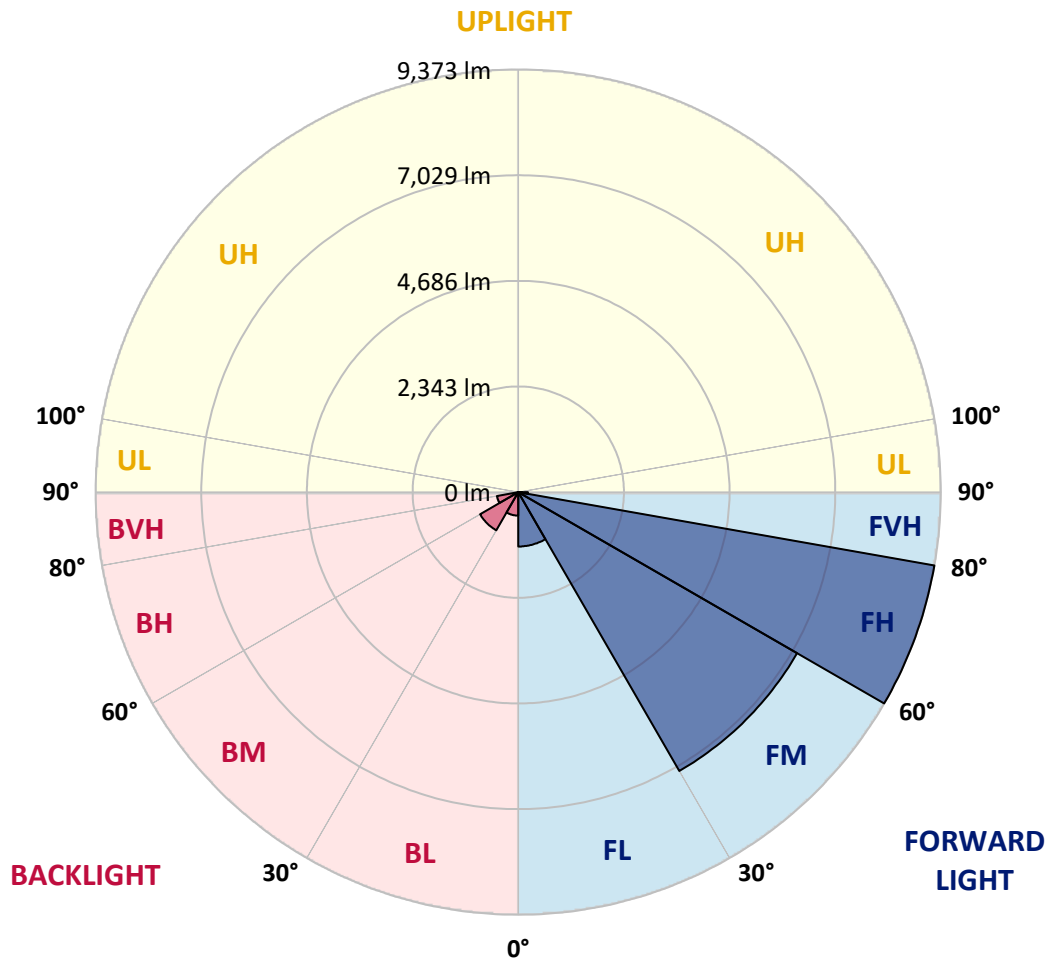


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1205.9 | 6.1       |                         |      |          |
| FM (30°-60°)   | 7141.2 | 35.9      |                         |      |          |
| FH (60°-80°)   | 9372.6 | 47.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 212.9  | 1.1       |                         |      | G2/225   |
| BL (0°-30°)    | 520.6  | 2.6       | B2/1000                 |      |          |
| BM (30°-60°)   | 978.3  | 4.9       | B1/1000                 |      |          |
| BH (60°-80°)   | 479.9  | 2.4       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.7    | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  | 1954.9  |
| 2.5°  | 2181.4  | 2167.1  | 2144.1  | 2135.5  | 2112.6  | 2101.1  | 2083.9  | 2075.3  | 2043.8  | 2012.3  | 1992.2  |
| 5°    | 2448.0  | 2413.6  | 2425.1  | 2390.7  | 2316.1  | 2255.9  | 2253.1  | 2187.1  | 2115.5  | 2058.1  | 1980.7  |
| 7.5°  | 2717.4  | 2688.8  | 2645.8  | 2597.0  | 2513.9  | 2425.1  | 2399.3  | 2336.2  | 2235.9  | 2135.5  | 2032.3  |
| 10°   | 2921.0  | 2900.9  | 2863.6  | 2794.8  | 2680.2  | 2579.8  | 2582.7  | 2476.7  | 2370.6  | 2255.9  | 2115.5  |
| 12.5° | 3047.1  | 3055.7  | 3001.2  | 2932.4  | 2832.1  | 2706.0  | 2703.1  | 2631.4  | 2511.0  | 2390.7  | 2224.4  |
| 15°   | 3173.2  | 3204.7  | 3121.6  | 3041.3  | 2912.4  | 2820.6  | 2837.8  | 2751.8  | 2634.3  | 2496.7  | 2313.3  |
| 17.5° | 3193.3  | 3201.9  | 3184.7  | 3067.1  | 2972.6  | 2895.2  | 2898.0  | 2840.7  | 2751.8  | 2602.8  | 2445.1  |
| 20°   | 3158.9  | 3153.1  | 3133.1  | 3047.1  | 2984.0  | 2938.2  | 2941.0  | 2926.7  | 2878.0  | 2757.6  | 2542.6  |
| 22.5° | 3058.5  | 3058.5  | 3032.8  | 2975.4  | 2946.8  | 2989.8  | 2955.4  | 3009.8  | 2958.2  | 2886.6  | 2708.8  |
| 25°   | 2978.3  | 3009.8  | 2995.5  | 2958.2  | 2969.7  | 3027.0  | 3044.2  | 3095.8  | 3087.2  | 2998.4  | 2823.5  |
| 27.5° | 3064.3  | 3027.0  | 3035.6  | 2992.6  | 3035.6  | 3121.6  | 3130.2  | 3167.5  | 3164.6  | 3092.9  | 2926.7  |
| 30°   | 3121.6  | 3156.0  | 3090.1  | 2995.5  | 3041.3  | 3187.5  | 3181.8  | 3230.5  | 3253.5  | 3167.5  | 3024.2  |
| 32.5° | 3305.1  | 3276.4  | 3221.9  | 3095.8  | 3101.5  | 3184.7  | 3210.5  | 3273.5  | 3287.9  | 3236.3  | 3118.7  |
| 35°   | 3680.6  | 3637.6  | 3399.7  | 3210.5  | 3181.8  | 3221.9  | 3239.1  | 3362.4  | 3388.2  | 3330.9  | 3219.1  |
| 37.5° | 4259.6  | 4162.1  | 3875.5  | 3457.0  | 3328.0  | 3319.4  | 3319.4  | 3482.8  | 3580.3  | 3448.4  | 3368.1  |
| 40°   | 5088.0  | 4950.4  | 4640.9  | 3912.8  | 3520.1  | 3554.5  | 3588.8  | 3677.7  | 3666.2  | 3580.3  | 3563.1  |
| 42.5° | 6142.9  | 6036.8  | 5701.5  | 4678.1  | 3887.0  | 3715.0  | 3686.3  | 3806.7  | 3987.3  | 3952.9  | 3941.4  |
| 45°   | 7022.9  | 7028.6  | 6813.7  | 5727.3  | 4520.5  | 4084.8  | 4104.8  | 4196.5  | 4500.4  | 4474.6  | 4471.7  |
| 47.5° | 7665.0  | 7584.7  | 7553.2  | 6739.1  | 5443.5  | 4787.0  | 4758.4  | 4821.4  | 5217.0  | 5380.4  | 5454.9  |
| 50°   | 8249.8  | 8195.3  | 8120.8  | 7722.3  | 6552.8  | 5667.1  | 5638.4  | 5644.1  | 6249.0  | 6478.3  | 6661.7  |
| 52.5° | 8975.0  | 9043.8  | 8797.3  | 8553.6  | 7988.9  | 6810.8  | 6779.3  | 6667.5  | 7418.5  | 7733.8  | 7951.7  |
| 55°   | 9869.3  | 9740.3  | 9462.3  | 9588.4  | 9362.0  | 8046.2  | 7988.9  | 7857.1  | 8751.4  | 8883.3  | 9112.6  |
| 57.5° | 10067.1 | 9969.7  | 10256.3 | 10703.5 | 10921.3 | 9496.7  | 9473.8  | 9235.8  | 9872.2  | 9751.8  | 10399.6 |
| 60°   | 10560.2 | 10586.0 | 10984.4 | 11873.0 | 12251.4 | 11170.7 | 11058.9 | 10640.4 | 10958.6 | 10981.5 | 11672.4 |
| 62.5° | 11067.5 | 11007.3 | 11898.8 | 12753.0 | 13334.9 | 12755.9 | 12718.6 | 11887.3 | 12248.5 | 11956.1 | 12870.6 |
| 65°   | 10694.9 | 10786.6 | 12062.2 | 13492.6 | 14739.5 | 14306.7 | 14275.1 | 13088.4 | 13286.2 | 12922.2 | 13357.9 |
| 67.5° | 9370.6  | 9184.2  | 10970.1 | 13154.3 | 15461.9 | 15932.0 | 15897.6 | 14398.4 | 13871.0 | 12916.4 | 12346.0 |
| 70°   | 6868.1  | 6707.6  | 8163.8  | 11139.2 | 14427.1 | 16763.3 | 16900.8 | 15309.9 | 13633.0 | 11712.5 | 9525.4  |
| 72.5° | 3365.3  | 3368.1  | 4574.9  | 7553.2  | 11414.4 | 15278.4 | 15347.2 | 14037.2 | 11712.5 | 8633.9  | 5394.7  |
| 75°   | 994.7   | 1006.1  | 1694.1  | 3703.5  | 7378.4  | 11603.6 | 11681.0 | 10654.8 | 8117.9  | 4460.3  | 1840.3  |
| 77.5° | 364.0   | 364.0   | 561.8   | 1390.2  | 3680.6  | 7323.9  | 7318.2  | 6541.3  | 4110.6  | 1510.6  | 430.0   |
| 80°   | 189.2   | 197.8   | 292.4   | 567.6   | 1593.8  | 3815.3  | 3958.6  | 3201.9  | 1562.2  | 636.4   | 126.1   |
| 82.5° | 77.4    | 86.0    | 160.5   | 292.4   | 765.4   | 1338.7  | 1464.8  | 1255.5  | 679.4   | 444.3   | 57.3    |
| 85°   | 22.9    | 25.8    | 77.4    | 163.4   | 301.0   | 335.4   | 372.6   | 421.4   | 427.1   | 344.0   | 25.8    |
| 87.5° | 2.9     | 2.9     | 31.5    | 54.5    | 65.9    | 71.7    | 83.1    | 83.1    | 217.9   | 240.8   | 14.3    |
| 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°    | 1954.9  | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 | 1954.9 |
| 2.5°  | 1969.3  | 1954.9 | 1932.0 | 1880.4 | 1869.0 | 1831.7 | 1828.8 | 1794.4 | 1805.9 | 1783.0 | 1774.4 |
| 5°    | 1954.9  | 1923.4 | 1860.4 | 1820.2 | 1780.1 | 1754.3 | 1737.1 | 1722.8 | 1719.9 | 1708.4 | 1702.7 |
| 7.5°  | 1980.7  | 1937.7 | 1840.3 | 1777.2 | 1708.4 | 1685.5 | 1648.2 | 1645.4 | 1625.3 | 1605.2 | 1605.2 |
| 10°   | 2066.7  | 1989.3 | 1883.3 | 1777.2 | 1688.4 | 1613.8 | 1527.8 | 1464.8 | 1441.8 | 1390.2 | 1396.0 |
| 12.5° | 2135.5  | 2066.7 | 1912.0 | 1803.0 | 1668.3 | 1499.2 | 1310.0 | 1163.8 | 1095.0 | 1029.1 | 1054.9 |
| 15°   | 2233.0  | 2132.7 | 1966.4 | 1808.8 | 1590.9 | 1298.5 | 988.9  | 825.6  | 762.5  | 748.2  | 745.3  |
| 17.5° | 2339.1  | 2233.0 | 2035.2 | 1794.4 | 1433.2 | 1003.3 | 728.1  | 633.5  | 645.0  | 662.2  | 659.3  |
| 20°   | 2456.6  | 2327.6 | 2086.8 | 1745.7 | 1183.9 | 728.1  | 596.2  | 593.4  | 610.6  | 636.4  | 642.1  |
| 22.5° | 2579.8  | 2468.1 | 2149.9 | 1599.5 | 882.9  | 584.8  | 573.3  | 573.3  | 584.8  | 616.3  | 610.6  |
| 25°   | 2717.4  | 2568.4 | 2181.4 | 1373.1 | 633.5  | 538.9  | 544.6  | 556.1  | 561.8  | 587.6  | 590.5  |
| 27.5° | 2823.5  | 2680.2 | 2190.0 | 1100.7 | 516.0  | 498.8  | 513.1  | 527.4  | 536.0  | 556.1  | 564.7  |
| 30°   | 2921.0  | 2820.6 | 2144.1 | 819.8  | 473.0  | 464.4  | 470.1  | 490.2  | 507.4  | 524.6  | 524.6  |
| 32.5° | 3044.2  | 2900.9 | 2038.1 | 581.9  | 447.2  | 432.8  | 430.0  | 438.6  | 458.6  | 478.7  | 478.7  |
| 35°   | 3170.3  | 3035.6 | 1869.0 | 467.2  | 424.2  | 404.2  | 392.7  | 384.1  | 392.7  | 407.0  | 418.5  |
| 37.5° | 3353.8  | 3239.1 | 1656.8 | 430.0  | 407.0  | 378.4  | 355.4  | 335.4  | 321.0  | 318.2  | 326.8  |
| 40°   | 3614.6  | 3468.5 | 1384.5 | 404.2  | 387.0  | 352.6  | 318.2  | 283.8  | 252.3  | 232.2  | 235.1  |
| 42.5° | 4010.2  | 3806.7 | 1089.3 | 389.8  | 372.6  | 323.9  | 275.2  | 226.5  | 186.3  | 166.3  | 166.3  |
| 45°   | 4574.9  | 4253.9 | 799.8  | 375.5  | 355.4  | 289.5  | 226.5  | 169.1  | 129.0  | 117.5  | 120.4  |
| 47.5° | 5426.3  | 4792.8 | 573.3  | 352.6  | 332.5  | 252.3  | 177.7  | 120.4  | 94.6   | 88.9   | 91.7   |
| 50°   | 6538.5  | 5432.0 | 447.2  | 326.8  | 303.8  | 212.1  | 131.9  | 88.9   | 74.5   | 71.7   | 74.5   |
| 52.5° | 7705.1  | 6077.0 | 392.7  | 303.8  | 260.9  | 169.1  | 97.5   | 71.7   | 63.1   | 60.2   | 63.1   |
| 55°   | 8702.7  | 6492.6 | 341.1  | 269.5  | 209.3  | 126.1  | 77.4   | 63.1   | 54.5   | 45.9   | 45.9   |
| 57.5° | 9711.7  | 6701.9 | 269.5  | 223.6  | 154.8  | 94.6   | 65.9   | 54.5   | 45.9   | 37.3   | 34.4   |
| 60°   | 10531.5 | 6850.9 | 192.1  | 166.3  | 108.9  | 74.5   | 57.3   | 48.7   | 37.3   | 28.7   | 25.8   |
| 62.5° | 11070.4 | 6423.8 | 140.5  | 126.1  | 80.3   | 63.1   | 48.7   | 40.1   | 28.7   | 20.1   | 20.1   |
| 65°   | 10803.8 | 5833.3 | 108.9  | 88.9   | 60.2   | 48.7   | 40.1   | 28.7   | 20.1   | 11.5   | 8.6    |
| 67.5° | 9694.5  | 4752.6 | 88.9   | 65.9   | 45.9   | 37.3   | 31.5   | 22.9   | 11.5   | 2.9    | 2.9    |
| 70°   | 7232.2  | 3482.8 | 71.7   | 48.7   | 37.3   | 28.7   | 22.9   | 14.3   | 5.7    | 2.9    | 0.0    |
| 72.5° | 3955.8  | 1906.2 | 57.3   | 40.1   | 28.7   | 22.9   | 17.2   | 11.5   | 5.7    | 0.0    | 0.0    |
| 75°   | 1307.1  | 507.4  | 43.0   | 28.7   | 17.2   | 14.3   | 11.5   | 8.6    | 2.9    | 0.0    | 0.0    |
| 77.5° | 315.3   | 131.9  | 34.4   | 25.8   | 14.3   | 8.6    | 5.7    | 2.9    | 2.9    | 0.0    | 0.0    |
| 80°   | 97.5    | 54.5   | 25.8   | 17.2   | 11.5   | 8.6    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 40.1    | 25.8   | 11.5   | 11.5   | 8.6    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.1    | 14.3   | 8.6    | 5.7    | 5.7    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 14.3    | 5.7    | 2.9    | 2.9    | 0.0    | 0.0    | 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)