

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: P481928

Luminaire Tested: **IFLD-L-SA7D-722-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481928  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

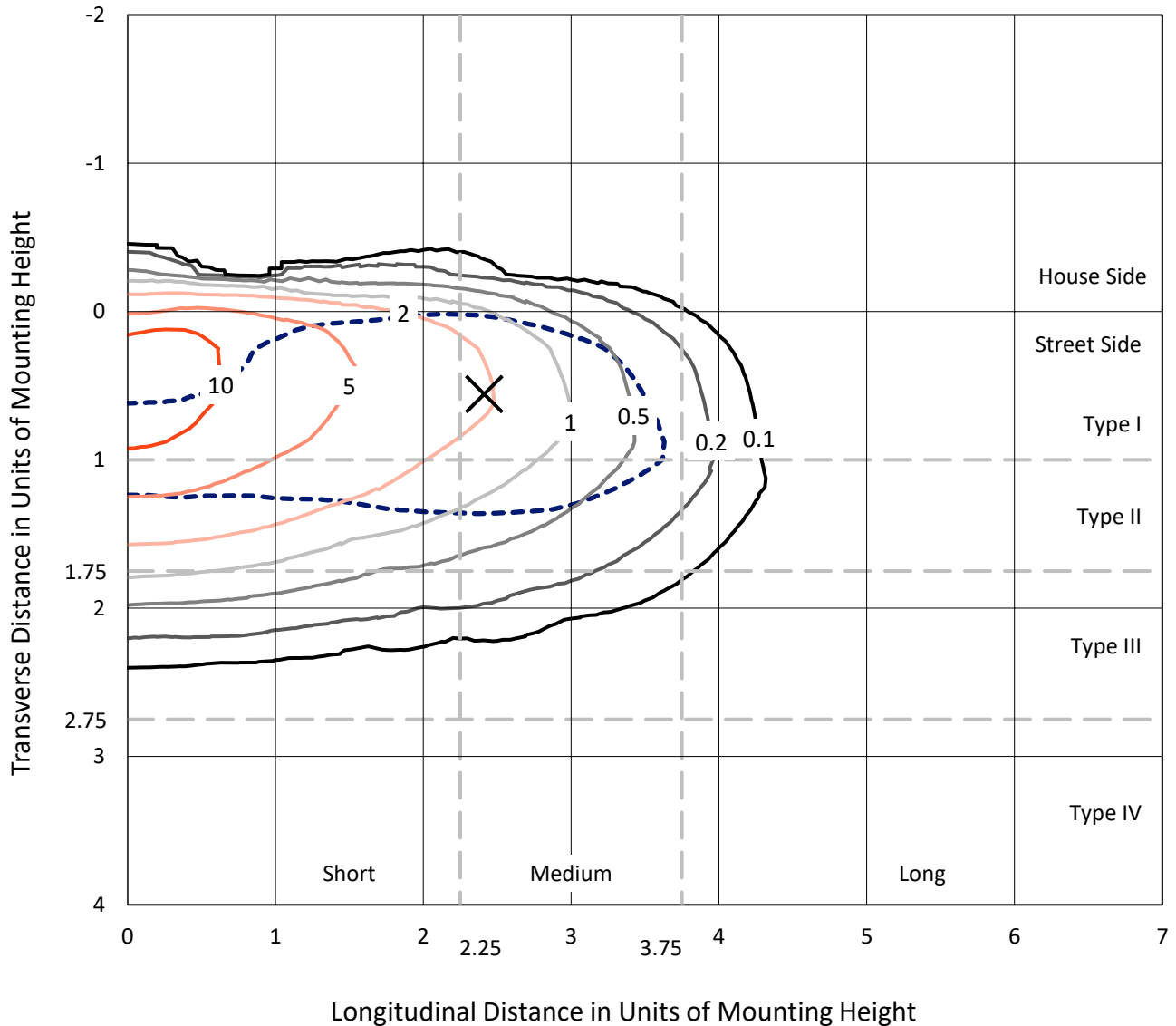
Lumens per Lamp: N/A  
Luminaire Lumens: 28249 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 422.6  
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

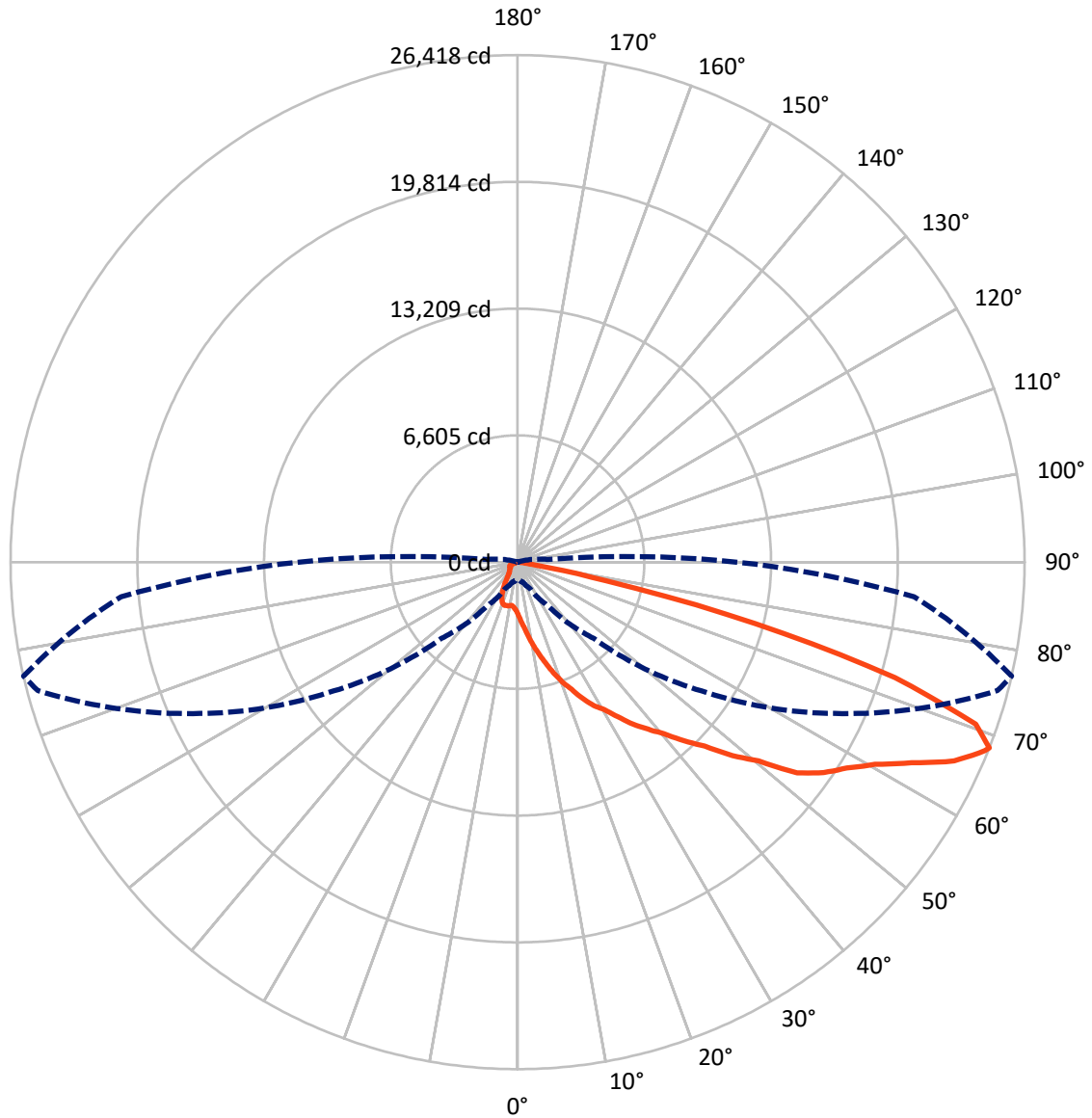
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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    | 1281.1   | 0.0    | 1281.1  |
|                    | % Fixture | 4.5      | 0.0    | 4.5     |
| <b>Street Side</b> | Lumens    | 26967.9  | 0.0    | 26967.9 |
|                    | % Fixture | 95.5     | 0.0    | 95.5    |
| <b>Total</b>       | Lumens    | 28249.0  | 0.0    | 28249.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 316.0   | 1.1       |
| 10°-20°   | 1165.4  | 4.1       |
| 20°-30°   | 2258.7  | 8.0       |
| 30°-40°   | 3937.6  | 13.9      |
| 40°-50°   | 5767.0  | 20.4      |
| 50°-60°   | 6775.3  | 24.0      |
| 60°-70°   | 5721.1  | 20.3      |
| 70°-80°   | 2217.7  | 7.9       |
| 80°-90°   | 90.2    | 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°    | 28249.0 | 100.0     |
| 0°-180°   | 28249.0 | 100.0     |

**Coefficient of Utilization**



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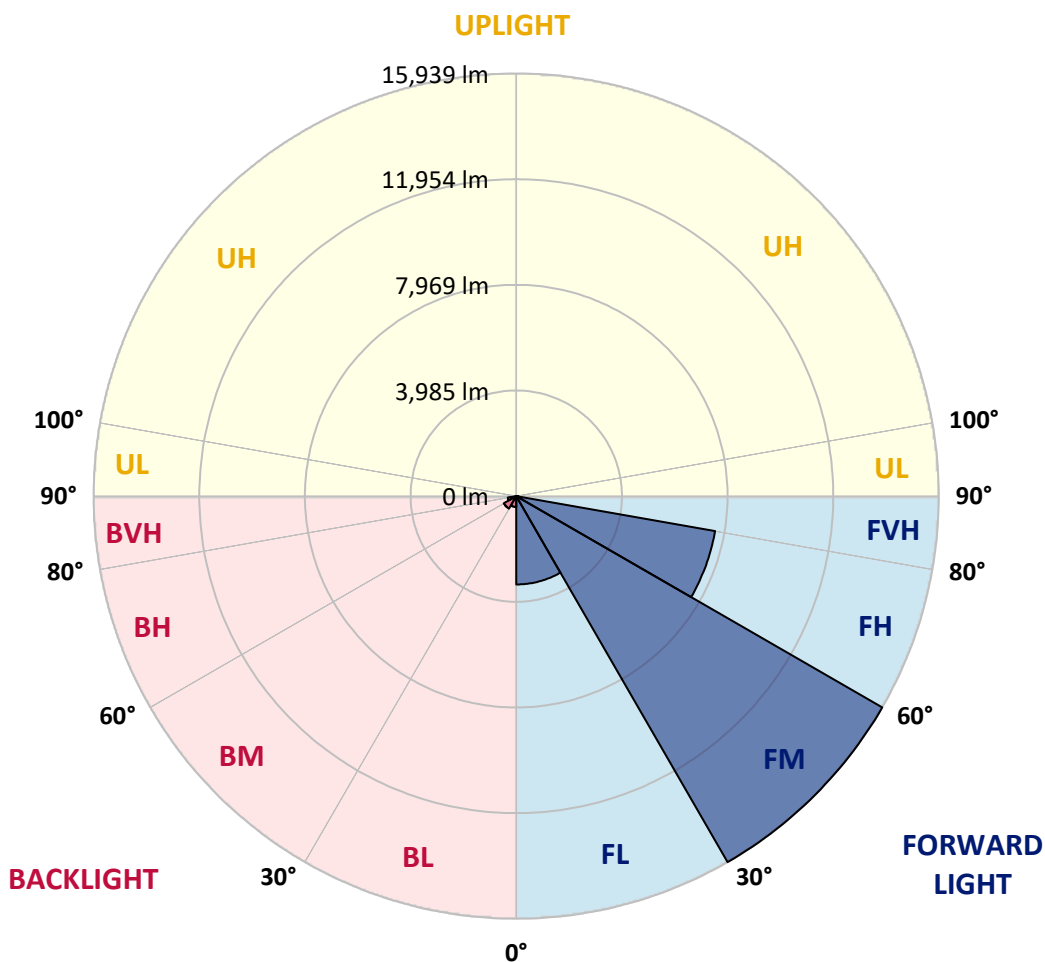
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3330.8  | 11.8      |                         |      |          |
| FM (30°-60°)   | 15938.6 | 56.4      |                         |      |          |
| FH (60°-80°)   | 7615.3  | 27.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 83.2    | 0.3       |                         |      | G1/100   |
| BL (0°-30°)    | 409.3   | 1.4       | B1/500                  |      |          |
| BM (30°-60°)   | 541.3   | 1.9       | B1/1000                 |      |          |
| BH (60°-80°)   | 323.5   | 1.1       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 7.0     | 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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  | 2704.9  |
| 2.5°  | 4109.9  | 4032.0  | 3950.3  | 3926.9  | 3775.2  | 3603.9  | 3444.3  | 3288.7  | 3027.9  | 3031.8  | 2852.8  |
| 5°    | 5296.9  | 5199.6  | 5133.4  | 5117.9  | 4880.5  | 4584.7  | 4343.4  | 3903.6  | 3471.6  | 3374.3  | 3047.4  |
| 7.5°  | 6273.8  | 6242.6  | 6145.3  | 6063.6  | 5888.5  | 5526.5  | 5242.4  | 4611.9  | 3954.2  | 3845.2  | 3284.8  |
| 10°   | 6865.3  | 6912.0  | 6954.9  | 6849.8  | 6713.6  | 6452.8  | 6063.6  | 5382.5  | 4502.9  | 4366.7  | 3592.2  |
| 12.5° | 7495.8  | 7418.0  | 7445.2  | 7530.9  | 7351.8  | 7293.4  | 6810.9  | 6176.5  | 5145.1  | 4884.4  | 3981.4  |
| 15°   | 7659.3  | 7690.4  | 7756.6  | 8005.7  | 8126.3  | 7959.0  | 7542.5  | 6818.6  | 5810.6  | 5448.7  | 4343.4  |
| 17.5° | 7768.3  | 7752.7  | 7834.4  | 8208.0  | 8391.0  | 8550.5  | 8289.8  | 7534.7  | 6390.5  | 6067.5  | 4794.8  |
| 20°   | 7904.5  | 7818.9  | 7997.9  | 8235.3  | 8659.5  | 8994.2  | 8982.5  | 8254.8  | 6997.7  | 6655.2  | 5242.4  |
| 22.5° | 8410.4  | 8344.3  | 8488.3  | 8511.6  | 8807.4  | 9274.4  | 9387.3  | 8842.4  | 7620.4  | 7200.0  | 5725.0  |
| 25°   | 9344.5  | 9465.1  | 9293.9  | 9146.0  | 9235.5  | 9543.0  | 9624.7  | 9363.9  | 8247.0  | 7861.7  | 6207.6  |
| 27.5° | 10710.5 | 10695.0 | 10356.4 | 10165.7 | 9951.6  | 9912.7  | 9971.1  | 9850.4  | 8741.2  | 8464.9  | 6604.6  |
| 30°   | 12177.8 | 12049.4 | 11738.0 | 11278.8 | 10807.8 | 10516.0 | 10434.2 | 10309.7 | 9321.1  | 8920.3  | 6997.7  |
| 32.5° | 13345.4 | 13415.4 | 13069.0 | 12469.7 | 11687.4 | 11294.3 | 10901.3 | 10765.0 | 9959.4  | 9605.2  | 7449.1  |
| 35°   | 14419.5 | 14326.1 | 14049.8 | 13543.9 | 12843.3 | 12208.9 | 11594.0 | 11302.1 | 10726.1 | 10375.8 | 7947.3  |
| 37.5° | 15213.5 | 15330.3 | 14804.8 | 14322.2 | 13625.6 | 13100.2 | 12496.9 | 11858.7 | 11516.2 | 11049.1 | 8554.4  |
| 40°   | 15964.6 | 15781.7 | 15427.5 | 14983.9 | 14337.8 | 13936.9 | 13540.0 | 12543.6 | 12356.8 | 11753.6 | 9239.4  |
| 42.5° | 15832.3 | 15844.0 | 15649.4 | 15291.3 | 14824.3 | 14594.7 | 14458.5 | 13376.5 | 13119.6 | 12734.3 | 9908.8  |
| 45°   | 15291.3 | 15338.0 | 15404.2 | 15229.1 | 15268.0 | 15038.4 | 15404.2 | 14333.9 | 14080.9 | 13672.3 | 10679.4 |
| 47.5° | 14695.9 | 14773.7 | 14758.1 | 15077.3 | 15439.2 | 15517.1 | 16431.7 | 15396.4 | 15287.4 | 15061.7 | 11745.8 |
| 50°   | 13707.3 | 13738.5 | 14038.1 | 14618.0 | 15112.3 | 15925.7 | 17202.3 | 16556.2 | 16723.6 | 16279.9 | 13014.6 |
| 52.5° | 12018.2 | 12131.1 | 12901.7 | 13730.7 | 14727.0 | 16132.0 | 17723.8 | 18280.3 | 18704.5 | 18249.2 | 14232.7 |
| 55°   | 9881.6  | 10037.2 | 10796.2 | 12349.0 | 13808.5 | 15820.6 | 18198.6 | 19191.0 | 20051.1 | 19362.3 | 14972.2 |
| 57.5° | 7951.2  | 7966.7  | 8647.8  | 10251.3 | 12504.7 | 15209.6 | 18439.9 | 19634.7 | 20790.6 | 20238.0 | 15875.1 |
| 60°   | 6059.7  | 5997.4  | 6608.5  | 7997.9  | 10309.7 | 13707.3 | 17836.6 | 19860.4 | 21713.0 | 21393.9 | 16961.0 |
| 62.5° | 3899.7  | 3802.4  | 4467.9  | 5822.3  | 8052.4  | 11204.8 | 16630.2 | 19864.3 | 23153.0 | 23032.3 | 18778.5 |
| 65°   | 1930.4  | 1864.2  | 2436.3  | 3568.9  | 5573.2  | 8570.0  | 14909.9 | 19790.4 | 24912.1 | 24990.0 | 20549.3 |
| 67.5° | 1019.7  | 1043.0  | 1226.0  | 1809.7  | 3214.7  | 6055.8  | 12317.9 | 18922.5 | 25811.2 | 26247.1 | 20977.4 |
| 68°   | 938.0   | 945.7   | 1089.7  | 1506.2  | 2790.5  | 5616.0  | 11703.0 | 18669.5 | 25881.2 | 26418.3 | 20740.0 |
| 70°   | 762.8   | 774.5   | 825.1   | 945.7   | 1510.1  | 3654.5  | 9029.2  | 16521.2 | 24826.5 | 25316.9 | 18774.6 |
| 72.5° | 607.1   | 642.2   | 673.3   | 723.9   | 887.4   | 1918.7  | 5616.0  | 12874.5 | 20510.4 | 20564.9 | 14614.1 |
| 75°   | 463.1   | 490.4   | 552.7   | 595.5   | 692.8   | 1054.7  | 2673.7  | 7850.0  | 13458.2 | 12796.6 | 8608.9  |
| 77.5° | 358.1   | 381.4   | 408.7   | 467.0   | 579.9   | 712.2   | 817.3   | 3331.5  | 5717.2  | 4705.3  | 2432.4  |
| 80°   | 214.1   | 229.6   | 319.1   | 365.8   | 505.9   | 482.6   | 323.0   | 926.3   | 1159.8  | 914.6   | 443.7   |
| 82.5° | 124.5   | 136.2   | 182.9   | 280.2   | 354.2   | 260.8   | 190.7   | 288.0   | 284.1   | 249.1   | 147.9   |
| 85°   | 3.9     | 7.8     | 101.2   | 167.4   | 124.5   | 70.1    | 116.8   | 120.6   | 101.2   | 93.4    | 66.2    |
| 87.5° | 0.0     | 3.9     | 27.2    | 23.4    | 27.2    | 15.6    | 23.4    | 31.1    | 38.9    | 35.0    | 27.2    |
| 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°    | 2704.9  | 2704.9 | 2704.9 | 2704.9 | 2704.9 | 2704.9 | 2704.9 | 2704.9 | 2704.9 | 2704.9 | 2704.9 |
| 2.5°  | 2732.1  | 2646.5 | 2455.8 | 2311.8 | 2156.1 | 2062.7 | 1969.3 | 1910.9 | 1879.8 | 1860.3 | 1875.9 |
| 5°    | 2802.2  | 2623.2 | 2315.7 | 2043.3 | 1864.2 | 1743.6 | 1622.9 | 1560.7 | 1502.3 | 1471.1 | 1490.6 |
| 7.5°  | 2957.9  | 2689.3 | 2179.5 | 1883.7 | 1673.5 | 1486.7 | 1334.9 | 1214.3 | 1144.2 | 1082.0 | 1093.6 |
| 10°   | 3148.6  | 2728.2 | 2183.4 | 1790.3 | 1486.7 | 1190.9 | 976.9  | 825.1  | 739.5  | 685.0  | 681.1  |
| 12.5° | 3343.2  | 2880.0 | 2198.9 | 1696.9 | 1257.1 | 895.1  | 642.2  | 529.3  | 478.7  | 451.5  | 451.5  |
| 15°   | 3638.9  | 3016.2 | 2160.0 | 1525.6 | 953.5  | 583.8  | 439.8  | 400.9  | 381.4  | 358.1  | 361.9  |
| 17.5° | 3895.8  | 3234.2 | 2140.6 | 1268.8 | 653.8  | 420.3  | 365.8  | 323.0  | 303.6  | 280.2  | 280.2  |
| 20°   | 4242.2  | 3370.4 | 2035.5 | 980.8  | 451.5  | 350.3  | 295.8  | 256.9  | 225.7  | 206.3  | 210.2  |
| 22.5° | 4557.4  | 3475.5 | 1848.7 | 669.4  | 346.4  | 276.3  | 217.9  | 179.0  | 151.8  | 128.4  | 132.3  |
| 25°   | 4899.9  | 3580.6 | 1576.2 | 412.5  | 245.2  | 171.2  | 116.8  | 85.6   | 58.4   | 42.8   | 42.8   |
| 27.5° | 5145.1  | 3611.7 | 1222.1 | 245.2  | 147.9  | 77.8   | 27.2   | 3.9    | 0.0    | 0.0    | 0.0    |
| 30°   | 5394.2  | 3623.4 | 844.5  | 132.3  | 58.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 32.5° | 5678.3  | 3619.5 | 529.3  | 70.1   | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 35°   | 5896.3  | 3553.3 | 253.0  | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 6227.1  | 3456.0 | 77.8   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 6604.6  | 3280.9 | 15.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 6943.2  | 3101.9 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 7328.5  | 2880.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 8005.7  | 2786.6 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 8889.1  | 2712.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 9434.0  | 2494.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 9718.1  | 2269.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 10138.4 | 2160.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 10761.1 | 2167.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 11734.1 | 2276.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 12271.2 | 2167.8 | 15.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 11815.9 | 1735.8 | 73.9   | 19.5   | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 68°   | 11422.8 | 1595.7 | 73.9   | 19.5   | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 9441.8  | 1039.1 | 70.1   | 19.5   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 6877.0  | 576.0  | 58.4   | 15.6   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 4000.9  | 288.0  | 42.8   | 15.6   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1043.0  | 144.0  | 35.0   | 19.5   | 11.7   | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 206.3   | 93.4   | 31.1   | 23.4   | 15.6   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 97.3    | 66.2   | 31.1   | 23.4   | 19.5   | 11.7   | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 50.6    | 31.1   | 31.1   | 23.4   | 23.4   | 15.6   | 7.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 23.4    | 11.7   | 11.7   | 11.7   | 11.7   | 7.8    | 3.9    | 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)