

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: P481658

Luminaire Tested: **IFLD-L-SA8B-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481658  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

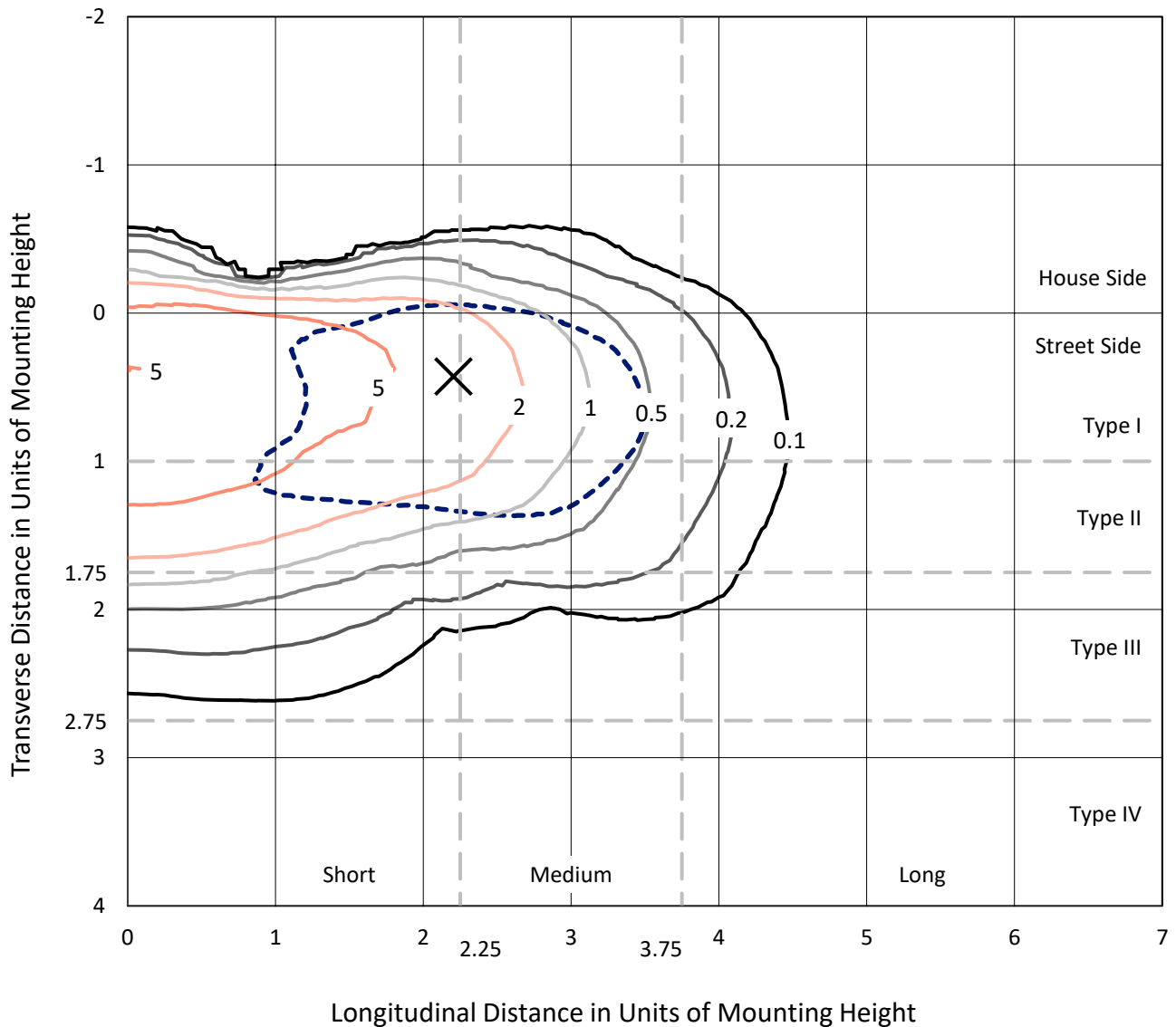
Lumens per Lamp: N/A  
Luminaire Lumens: 28907.2 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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

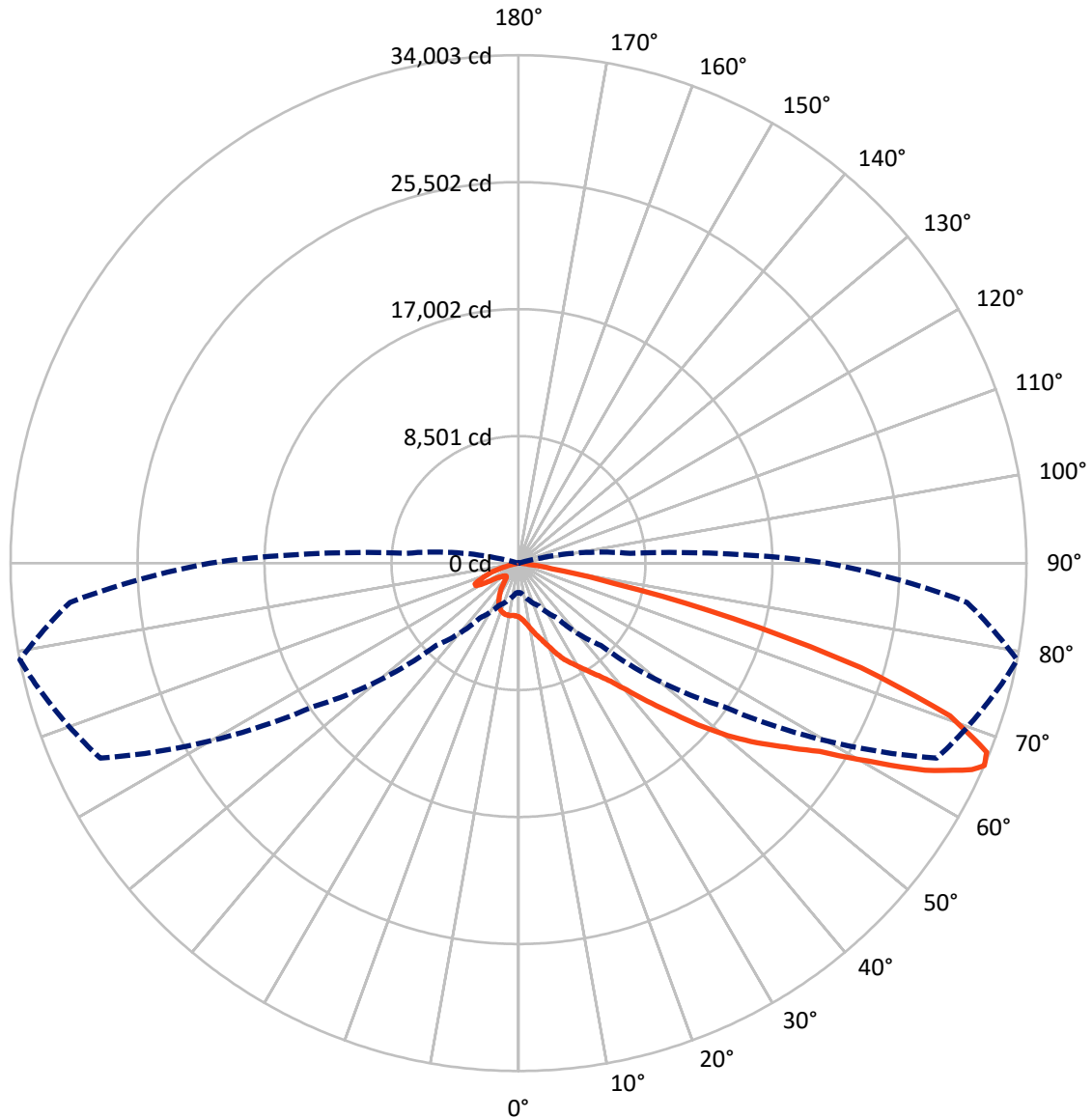
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2170.5   | 0.0    | 2170.5  |
|                    | % Fixture | 7.5      | 0.0    | 7.5     |
| <b>Street Side</b> | Lumens    | 26736.6  | 0.0    | 26736.6 |
|                    | % Fixture | 92.5     | 0.0    | 92.5    |
| <b>Total</b>       | Lumens    | 28907.2  | 0.0    | 28907.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 340.1   | 1.2       |
| 10°-20°   | 936.1   | 3.2       |
| 20°-30°   | 1555.0  | 5.4       |
| 30°-40°   | 2671.0  | 9.2       |
| 40°-50°   | 4838.8  | 16.7      |
| 50°-60°   | 7648.7  | 26.5      |
| 60°-70°   | 7783.1  | 26.9      |
| 70°-80°   | 2968.1  | 10.3      |
| 80°-90°   | 166.4   | 0.6       |
| 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°    | 28907.2 | 100.0     |
| 0°-180°   | 28907.2 | 100.0     |

**Coefficient of Utilization**



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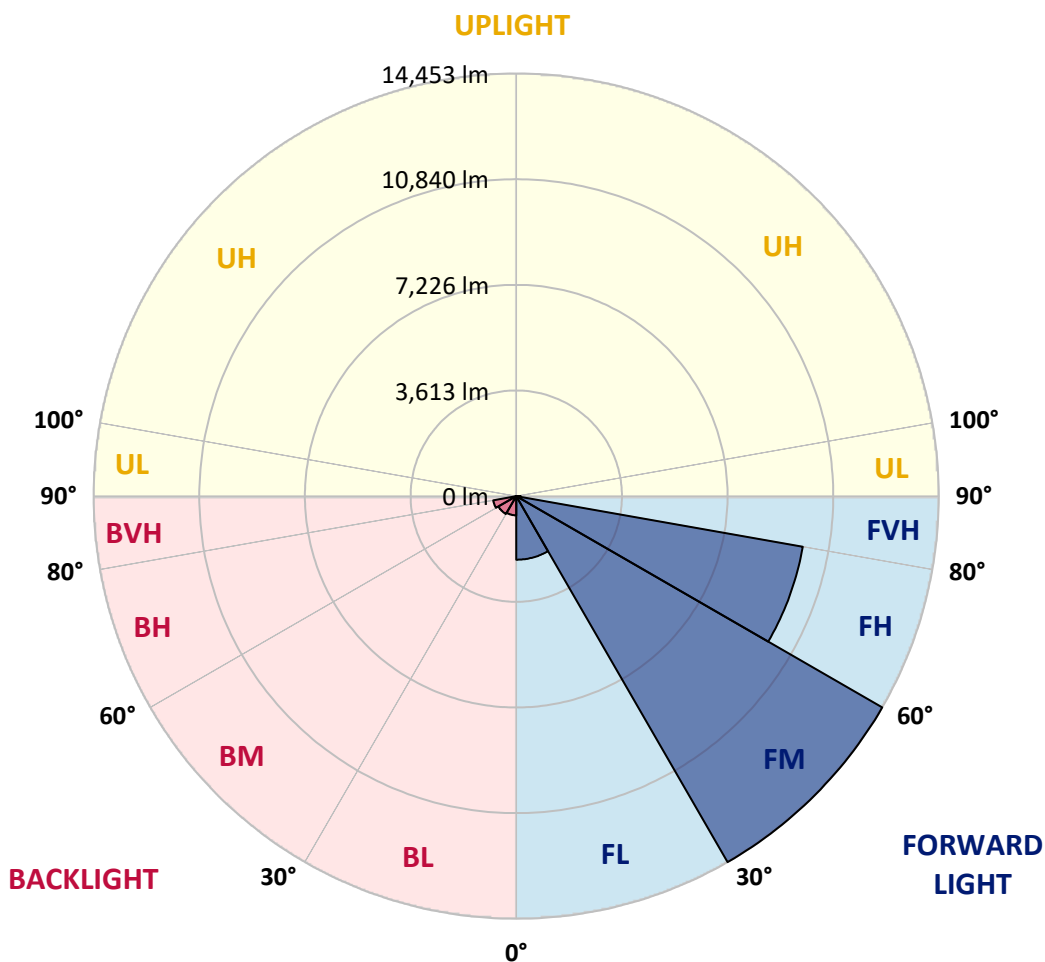
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2174.8  | 7.5       |                         |      |          |
| FM (30°-60°)   | 14452.9 | 50.0      |                         |      |          |
| FH (60°-80°)   | 9951.0  | 34.4      |                         |      | G4/12000 |
| FVH (80°-90°)  | 157.9   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 656.4   | 2.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 705.5   | 2.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 800.1   | 2.8       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 8.5     | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  | 3596.4  |
| 2.5°  | 4073.2  | 4068.8  | 4051.0  | 4019.8  | 3979.7  | 3966.3  | 3908.4  | 3828.1  | 3783.6  | 3734.5  | 3712.3  |
| 5°    | 4354.0  | 4331.7  | 4385.2  | 4362.9  | 4371.8  | 4264.9  | 4193.6  | 4135.6  | 3966.3  | 3899.4  | 3792.5  |
| 7.5°  | 4416.4  | 4438.7  | 4434.2  | 4469.9  | 4505.5  | 4545.6  | 4496.6  | 4411.9  | 4242.6  | 4144.5  | 4028.7  |
| 10°   | 4416.4  | 4407.5  | 4443.1  | 4492.2  | 4594.7  | 4683.8  | 4817.5  | 4706.1  | 4576.8  | 4461.0  | 4251.5  |
| 12.5° | 4336.2  | 4322.8  | 4358.5  | 4461.0  | 4643.7  | 4826.4  | 4973.5  | 5080.4  | 4897.7  | 4804.1  | 4532.3  |
| 15°   | 4091.1  | 4077.7  | 4224.8  | 4407.5  | 4648.1  | 4946.7  | 5254.2  | 5428.0  | 5303.2  | 5156.2  | 4853.1  |
| 17.5° | 3788.0  | 3805.9  | 3961.8  | 4264.9  | 4648.1  | 5004.7  | 5396.8  | 5775.6  | 5757.8  | 5570.6  | 5254.2  |
| 20°   | 3685.5  | 3698.9  | 3854.9  | 4073.2  | 4510.0  | 5044.8  | 5619.6  | 6154.4  | 6261.4  | 6038.6  | 5624.1  |
| 22.5° | 3881.6  | 3868.2  | 3881.6  | 4015.3  | 4416.4  | 5009.1  | 5766.7  | 6586.7  | 6778.3  | 6604.5  | 6109.9  |
| 25°   | 4550.1  | 4541.2  | 4429.8  | 4224.8  | 4362.9  | 4928.9  | 5842.5  | 6871.9  | 7313.1  | 7152.7  | 6502.0  |
| 27.5° | 5530.5  | 5494.9  | 5321.1  | 4893.2  | 4612.5  | 4977.9  | 5967.3  | 7148.2  | 7781.1  | 7598.3  | 6854.1  |
| 30°   | 6582.3  | 6497.6  | 6270.3  | 5735.5  | 5258.7  | 5160.6  | 6038.6  | 7353.2  | 8302.5  | 8070.7  | 7161.6  |
| 32.5° | 7308.7  | 7420.1  | 7348.8  | 6805.1  | 6074.2  | 5584.0  | 6154.4  | 7611.7  | 8783.8  | 8632.2  | 7687.5  |
| 35°   | 8431.7  | 8560.9  | 8262.4  | 7781.1  | 7045.7  | 6256.9  | 6399.5  | 7821.2  | 9523.5  | 9269.5  | 8177.7  |
| 37.5° | 9848.9  | 9946.9  | 9733.0  | 8819.4  | 8044.0  | 7085.8  | 6903.1  | 8257.9  | 10160.8 | 10040.5 | 8806.0  |
| 40°   | 10561.9 | 11034.3 | 10731.3 | 9906.8  | 9073.4  | 8244.5  | 7736.5  | 8770.4  | 11270.5 | 11172.4 | 9675.1  |
| 42.5° | 11546.8 | 11783.0 | 11627.0 | 11016.5 | 10147.5 | 9483.4  | 8765.9  | 9768.7  | 12616.4 | 12616.4 | 10851.6 |
| 45°   | 12589.6 | 12598.5 | 12589.6 | 12090.5 | 11319.5 | 10976.4 | 10156.4 | 11020.9 | 14064.7 | 14225.2 | 12259.8 |
| 47.5° | 13445.3 | 13712.7 | 13690.4 | 13391.8 | 12794.6 | 12665.4 | 11546.8 | 12447.0 | 15883.0 | 16163.7 | 13632.4 |
| 50°   | 13886.5 | 14185.0 | 14274.2 | 14430.2 | 14403.4 | 14675.3 | 13066.5 | 14100.4 | 17451.7 | 18142.4 | 15397.2 |
| 52.5° | 13766.1 | 13788.4 | 14336.6 | 14951.6 | 15932.0 | 16694.1 | 14898.1 | 15976.6 | 19287.7 | 19969.6 | 16760.9 |
| 55°   | 12781.2 | 12696.6 | 13824.1 | 14528.2 | 16555.9 | 17928.5 | 17433.8 | 18316.2 | 20718.3 | 21756.6 | 18169.2 |
| 57.5° | 10619.8 | 10642.1 | 11684.9 | 13115.5 | 16092.4 | 18418.7 | 20143.4 | 21373.4 | 22723.7 | 23771.0 | 20147.8 |
| 60°   | 7330.9  | 7304.2  | 8471.8  | 10125.2 | 13369.5 | 17505.1 | 21703.2 | 25335.2 | 25406.5 | 26890.5 | 23699.7 |
| 62.5° | 4122.3  | 4131.2  | 5018.0  | 6430.7  | 9354.2  | 14305.4 | 21627.4 | 29542.1 | 29239.1 | 30540.4 | 27737.3 |
| 65°   | 2335.2  | 2393.1  | 3003.7  | 3810.3  | 5601.8  | 9603.8  | 18601.4 | 31217.8 | 32193.8 | 33352.5 | 30188.3 |
| 66°   | 1974.2  | 2014.3  | 2535.7  | 3146.3  | 4469.9  | 7790.0  | 16743.1 | 30892.5 | 33120.7 | 34003.1 | 30139.3 |
| 67.5° | 1528.6  | 1582.1  | 2018.8  | 2495.6  | 3280.0  | 5392.4  | 13476.5 | 29274.8 | 33290.1 | 33807.0 | 29288.1 |
| 70°   | 1047.3  | 1082.9  | 1417.2  | 1894.0  | 2241.6  | 2758.6  | 8057.4  | 24203.3 | 30206.2 | 30642.9 | 25455.5 |
| 72.5° | 735.3   | 753.1   | 993.8   | 1435.0  | 1724.7  | 1577.6  | 3997.5  | 17219.9 | 23115.9 | 23967.1 | 19800.2 |
| 75°   | 530.3   | 548.1   | 681.8   | 1029.5  | 1345.9  | 1033.9  | 1831.6  | 10998.6 | 14176.1 | 14844.6 | 11925.6 |
| 77.5° | 383.3   | 405.5   | 463.5   | 664.0   | 976.0   | 726.4   | 900.2   | 5744.4  | 6684.8  | 6568.9  | 5129.4  |
| 80°   | 231.7   | 254.0   | 343.2   | 427.8   | 713.0   | 512.5   | 494.7   | 2397.6  | 2370.9  | 2250.5  | 1613.3  |
| 82.5° | 107.0   | 124.8   | 182.7   | 289.7   | 499.1   | 356.5   | 236.2   | 855.6   | 748.7   | 686.3   | 454.6   |
| 85°   | 31.2    | 40.1    | 107.0   | 218.4   | 254.0   | 173.8   | 142.6   | 294.1   | 307.5   | 262.9   | 151.5   |
| 87.5° | 0.0     | 4.5     | 49.0    | 53.5    | 75.8    | 57.9    | 53.5    | 75.8    | 142.6   | 115.9   | 49.0    |
| 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°    | 3596.4  | 3596.4 | 3596.4 | 3596.4 | 3596.4 | 3596.4 | 3596.4 | 3596.4 | 3596.4 | 3596.4 | 3596.4 |
| 2.5°  | 3632.0  | 3600.9 | 3525.1 | 3409.2 | 3306.7 | 3253.2 | 3177.5 | 3110.6 | 3075.0 | 3070.5 | 3066.1 |
| 5°    | 3721.2  | 3636.5 | 3453.8 | 3244.3 | 3088.4 | 2919.0 | 2803.1 | 2718.5 | 2638.2 | 2562.5 | 2607.1 |
| 7.5°  | 3841.5  | 3707.8 | 3409.2 | 3137.4 | 2798.7 | 2580.3 | 2375.3 | 2255.0 | 2183.7 | 2116.8 | 2107.9 |
| 10°   | 4028.7  | 3859.3 | 3378.0 | 2887.8 | 2500.1 | 2179.2 | 1969.8 | 1796.0 | 1697.9 | 1582.1 | 1626.6 |
| 12.5° | 4282.7  | 3979.7 | 3262.2 | 2660.5 | 2161.4 | 1822.7 | 1524.1 | 1243.4 | 1087.4 | 967.1  | 971.5  |
| 15°   | 4536.7  | 4140.1 | 3155.2 | 2384.2 | 1853.9 | 1408.3 | 971.5  | 779.9  | 735.3  | 708.6  | 717.5  |
| 17.5° | 4786.3  | 4269.3 | 2990.3 | 2103.5 | 1501.8 | 895.8  | 708.6  | 668.5  | 646.2  | 619.5  | 619.5  |
| 20°   | 5089.3  | 4354.0 | 2785.3 | 1845.0 | 1033.9 | 664.0  | 606.1  | 579.3  | 543.7  | 508.0  | 512.5  |
| 22.5° | 5383.5  | 4425.3 | 2549.1 | 1515.2 | 695.2  | 574.9  | 508.0  | 472.4  | 441.2  | 405.5  | 405.5  |
| 25°   | 5677.6  | 4447.6 | 2241.6 | 1087.4 | 561.5  | 459.0  | 396.6  | 347.6  | 316.4  | 285.2  | 289.7  |
| 27.5° | 5878.1  | 4309.4 | 1951.9 | 695.2  | 450.1  | 347.6  | 276.3  | 236.2  | 209.5  | 178.3  | 178.3  |
| 30°   | 5994.0  | 4055.4 | 1640.0 | 490.2  | 338.7  | 236.2  | 164.9  | 124.8  | 98.0   | 75.8   | 71.3   |
| 32.5° | 6109.9  | 3850.4 | 1287.9 | 374.3  | 222.8  | 124.8  | 62.4   | 22.3   | 0.0    | 0.0    | 0.0    |
| 35°   | 6341.6  | 3618.7 | 864.6  | 209.5  | 75.8   | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 6488.7  | 3297.8 | 396.6  | 31.2   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 6858.6  | 3137.4 | 98.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 7460.2  | 3026.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 8119.7  | 2981.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 8997.7  | 3101.7 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 9924.6  | 3427.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 10940.7 | 3734.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 11827.6 | 4104.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 13458.6 | 4977.9 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 16386.6 | 6693.7 | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 19684.4 | 7968.2 | 49.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 20892.1 | 7937.0 | 84.7   | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 20678.2 | 7500.3 | 84.7   | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 19568.5 | 6662.5 | 75.8   | 8.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 16805.5 | 5503.8 | 75.8   | 13.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 12812.4 | 4287.2 | 71.3   | 17.8   | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 7732.0  | 2281.7 | 57.9   | 22.3   | 8.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 3079.4  | 802.2  | 44.6   | 17.8   | 8.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 833.4   | 240.7  | 26.7   | 17.8   | 13.4   | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 218.4   | 89.1   | 22.3   | 17.8   | 8.9    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 84.7    | 35.7   | 17.8   | 13.4   | 13.4   | 8.9    | 4.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 26.7    | 13.4   | 13.4   | 8.9    | 8.9    | 4.5    | 4.5    | 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)