

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: P399808

Luminaire Tested: **ARCH-L-PA3-190-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-190-760-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20210 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

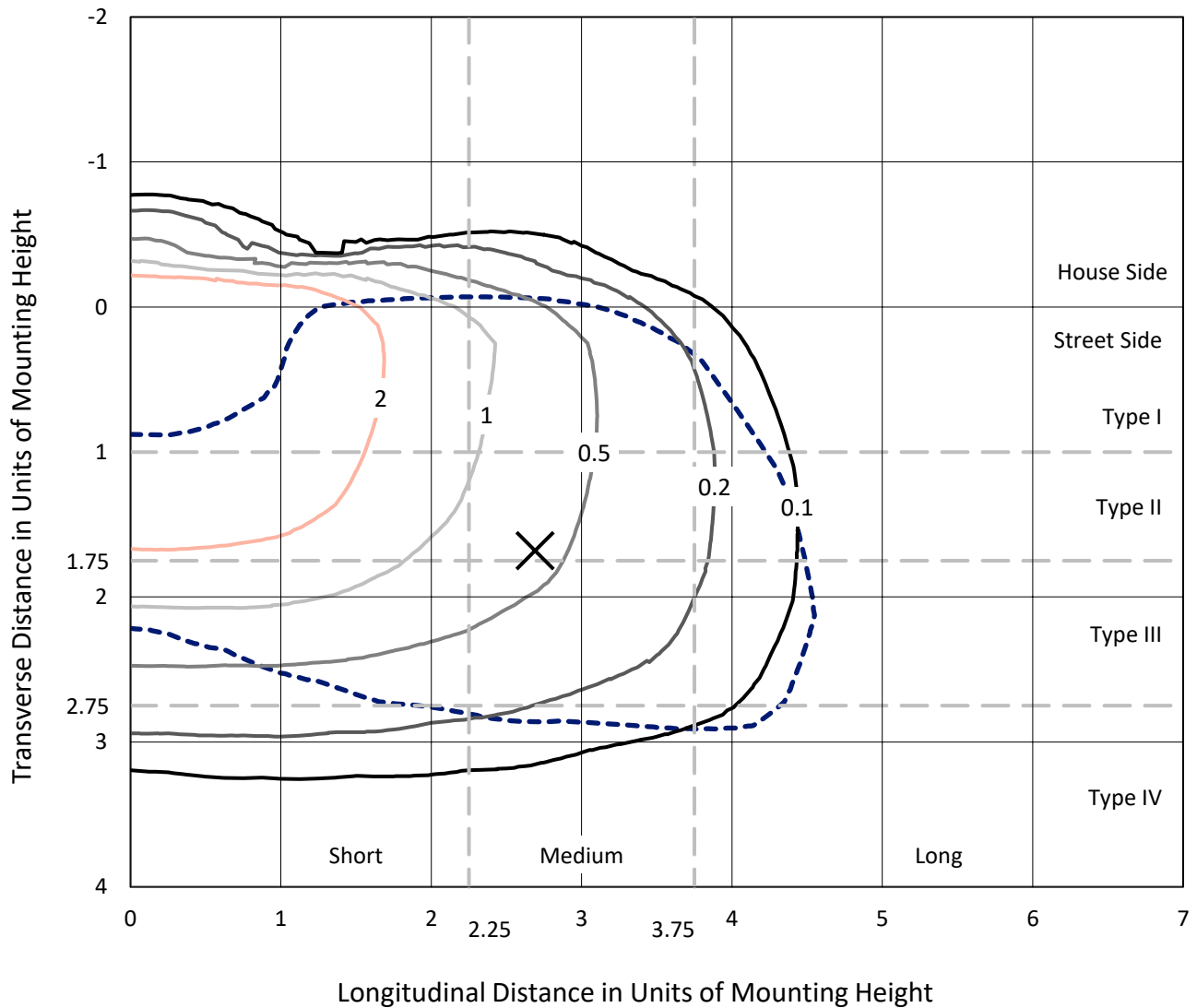
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

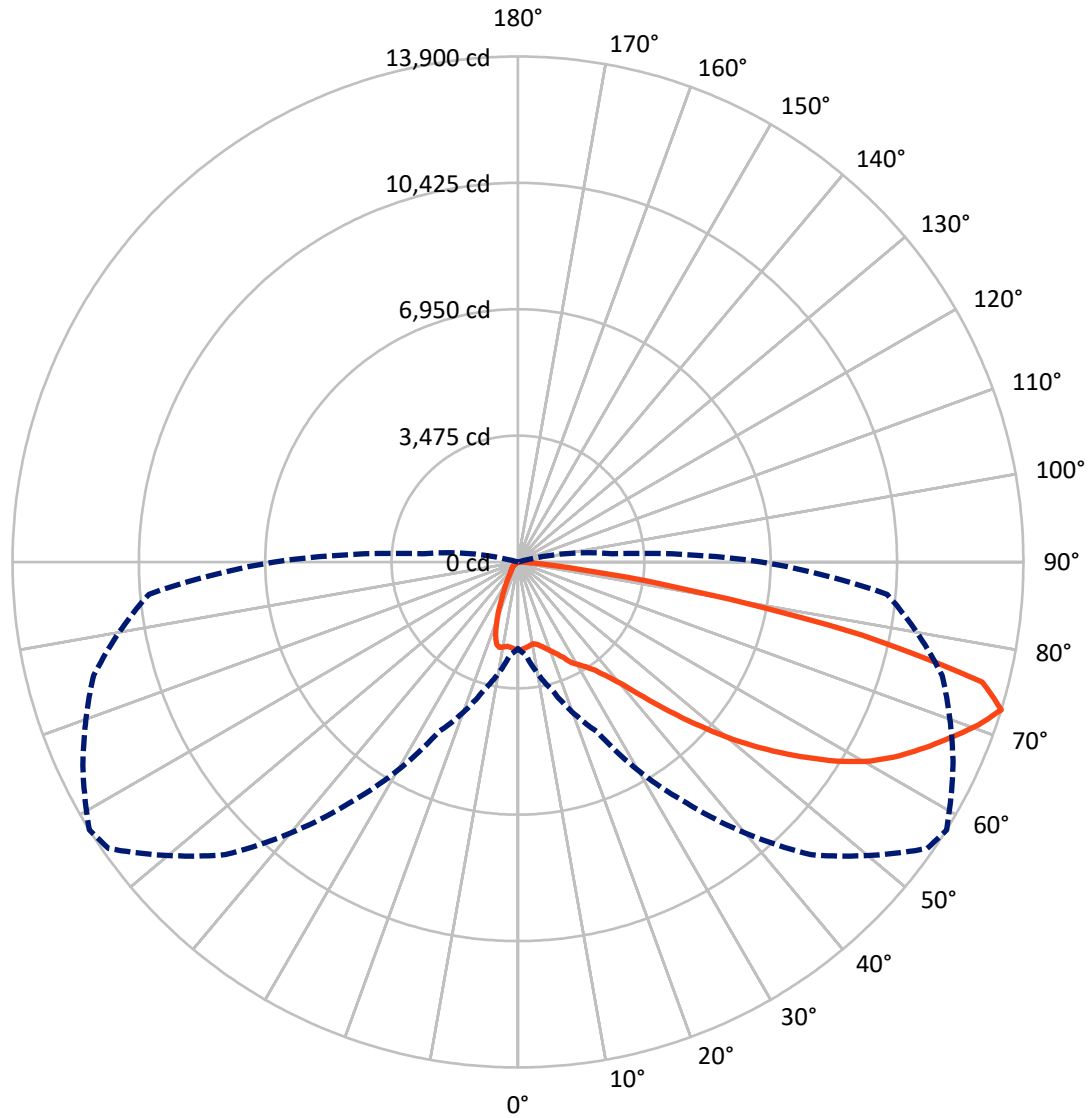
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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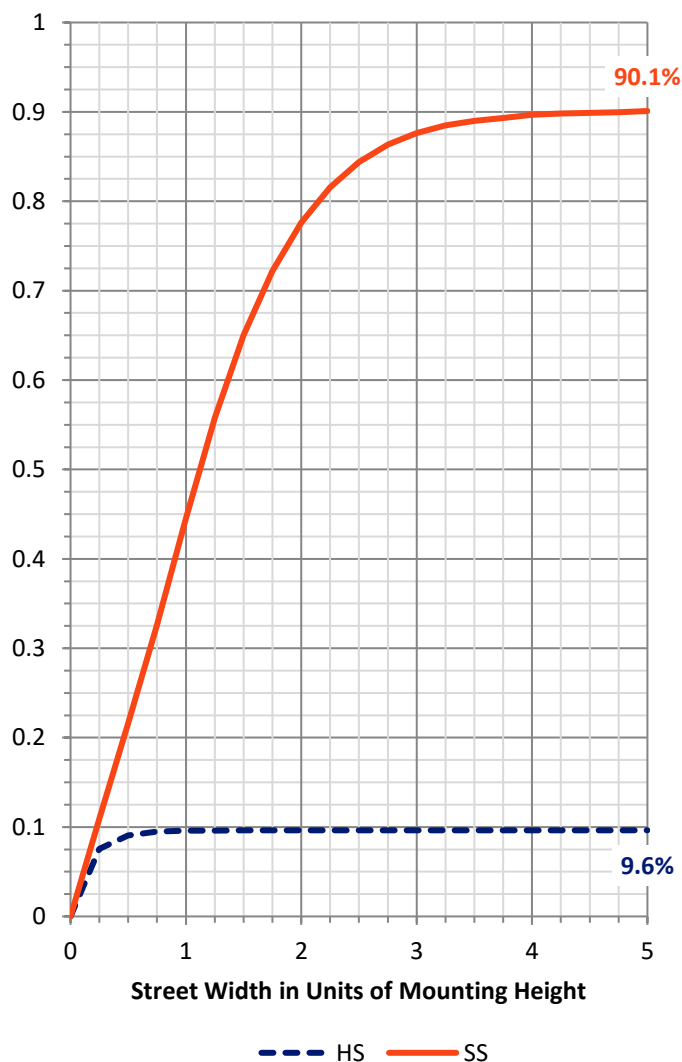
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1965.3   | 0.0    | 1965.3  |
|                    | % Fixture | 9.7      | 0.0    | 9.7     |
| <b>Street Side</b> | Lumens    | 18244.7  | 0.0    | 18244.7 |
|                    | % Fixture | 90.3     | 0.0    | 90.3    |
| <b>Total</b>       | Lumens    | 20210.0  | 0.0    | 20210.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 222.6   | 1.1       |
| 10°-20°   | 579.7   | 2.9       |
| 20°-30°   | 910.6   | 4.5       |
| 30°-40°   | 1570.5  | 7.8       |
| 40°-50°   | 2987.9  | 14.8      |
| 50°-60°   | 4731.9  | 23.4      |
| 60°-70°   | 5521.6  | 27.3      |
| 70°-80°   | 3458.2  | 17.1      |
| 80°-90°   | 227.0   | 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°    | 20210.0 | 100.0     |
| 0°-180°   | 20210.0 | 100.0     |

**Coefficient of Utilization**

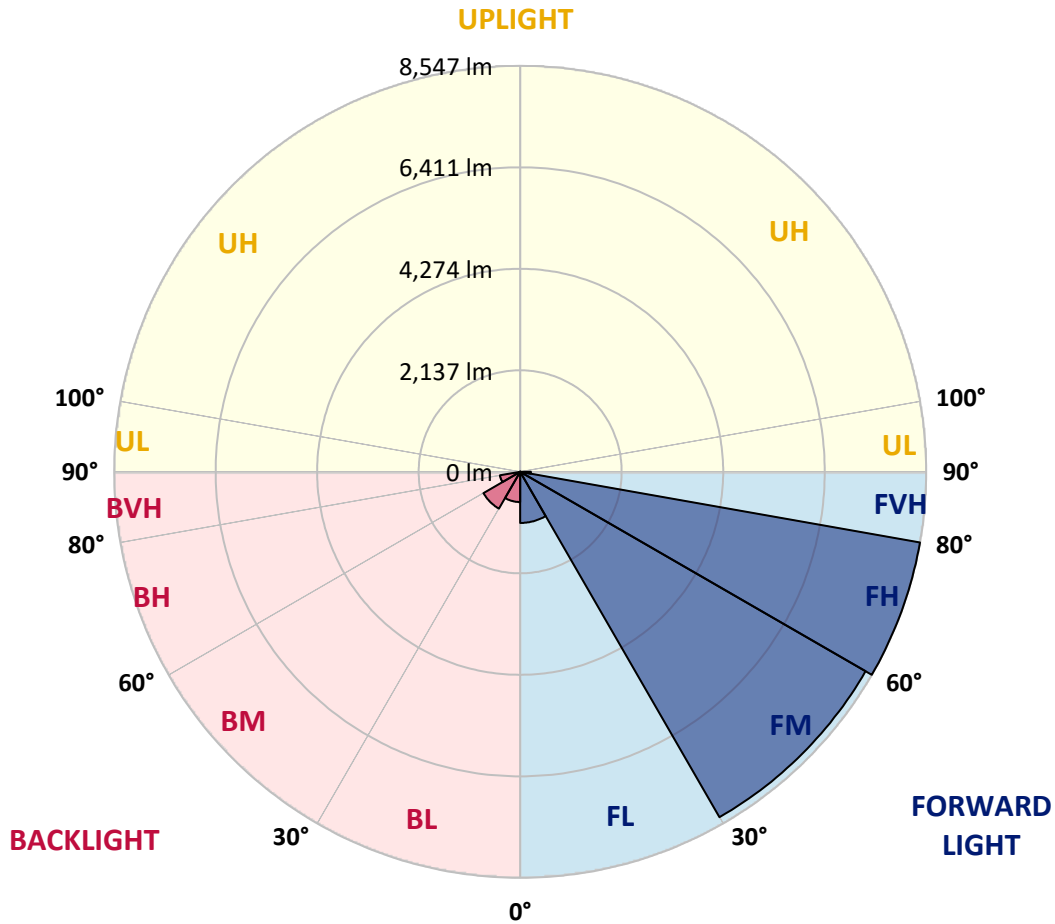


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1076.5 | 5.3       |                         |      |          |
| FM (30°-60°)   | 8396.1 | 41.5      |                         |      |          |
| FH (60°-80°)   | 8547.4 | 42.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 224.8  | 1.1       |                         |      | G2/225   |
| BL (0°-30°)    | 636.4  | 3.1       | B2/1000                 |      |          |
| BM (30°-60°)   | 894.2  | 4.4       | B1/1000                 |      |          |
| BH (60°-80°)   | 432.4  | 2.1       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 2.2    | 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  | 2425.1  |
| 2.5°  | 2414.2  | 2403.4  | 2399.8  | 2396.2  | 2399.8  | 2403.4  | 2392.5  | 2403.4  | 2396.2  | 2399.8  | 2407.0  |
| 5°    | 2327.5  | 2316.7  | 2313.0  | 2316.7  | 2327.5  | 2345.6  | 2352.8  | 2363.6  | 2363.6  | 2374.5  | 2378.1  |
| 7.5°  | 2229.9  | 2222.7  | 2219.1  | 2226.3  | 2248.0  | 2287.7  | 2309.4  | 2323.9  | 2338.3  | 2360.0  | 2381.7  |
| 10°   | 2175.7  | 2172.1  | 2168.5  | 2179.3  | 2201.0  | 2237.1  | 2266.1  | 2287.7  | 2342.0  | 2403.4  | 2443.1  |
| 12.5° | 2139.6  | 2139.6  | 2146.8  | 2168.5  | 2197.4  | 2226.3  | 2295.0  | 2323.9  | 2407.0  | 2501.0  | 2555.2  |
| 15°   | 2110.6  | 2110.6  | 2121.5  | 2161.2  | 2201.0  | 2269.7  | 2370.9  | 2403.4  | 2501.0  | 2616.6  | 2688.9  |
| 17.5° | 2089.0  | 2096.2  | 2103.4  | 2143.2  | 2219.1  | 2334.7  | 2454.0  | 2501.0  | 2620.2  | 2746.7  | 2826.2  |
| 20°   | 2092.6  | 2099.8  | 2103.4  | 2143.2  | 2251.6  | 2410.6  | 2562.4  | 2616.6  | 2754.0  | 2887.7  | 2967.2  |
| 22.5° | 2114.3  | 2125.1  | 2128.7  | 2182.9  | 2309.4  | 2490.1  | 2685.3  | 2746.7  | 2894.9  | 3035.9  | 3097.3  |
| 25°   | 2204.6  | 2211.8  | 2190.2  | 2237.1  | 2392.5  | 2613.0  | 2844.3  | 2909.4  | 3057.5  | 3187.7  | 3238.3  |
| 27.5° | 2511.8  | 2519.0  | 2399.8  | 2345.6  | 2457.6  | 2714.2  | 3039.5  | 3129.8  | 3314.2  | 3400.9  | 3408.1  |
| 30°   | 3176.8  | 3184.0  | 2949.1  | 2692.5  | 2613.0  | 2800.9  | 3147.9  | 3274.4  | 3512.9  | 3610.5  | 3567.1  |
| 32.5° | 4033.4  | 4026.1  | 3704.5  | 3325.0  | 2981.7  | 2952.7  | 3303.3  | 3437.0  | 3697.2  | 3791.2  | 3758.7  |
| 35°   | 4893.5  | 4904.4  | 4629.7  | 4058.7  | 3567.1  | 3238.3  | 3502.1  | 3657.5  | 3971.9  | 4105.6  | 4047.8  |
| 37.5° | 5482.6  | 5554.9  | 5435.6  | 4817.6  | 4286.4  | 3765.9  | 3823.7  | 3990.0  | 4383.9  | 4564.6  | 4441.8  |
| 40°   | 6313.9  | 6295.8  | 6006.7  | 5551.3  | 5081.5  | 4546.6  | 4344.2  | 4423.7  | 4875.5  | 5117.6  | 4926.1  |
| 42.5° | 7430.6  | 7394.5  | 6903.0  | 6458.4  | 5934.4  | 5497.1  | 5085.1  | 5070.6  | 5439.3  | 5721.2  | 5442.9  |
| 45°   | 8442.6  | 8388.4  | 8052.3  | 7622.2  | 7047.5  | 6545.2  | 5988.6  | 5862.1  | 6118.7  | 6357.2  | 6032.0  |
| 47.5° | 9248.5  | 9158.2  | 8919.7  | 8692.0  | 8551.0  | 7770.4  | 6935.5  | 6744.0  | 6874.1  | 7051.2  | 6592.2  |
| 50°   | 10202.7 | 9953.3  | 9606.3  | 9469.0  | 9761.7  | 9158.2  | 7846.3  | 7661.9  | 7654.7  | 7755.9  | 7170.4  |
| 52.5° | 10636.4 | 10184.6 | 9989.4  | 10105.1 | 10621.9 | 10448.4 | 8829.3  | 8565.5  | 8460.7  | 8471.5  | 7708.9  |
| 55°   | 10112.3 | 10061.7 | 10166.5 | 10527.9 | 11203.8 | 11102.6 | 9772.6  | 9447.3  | 9291.9  | 9096.7  | 8225.7  |
| 57.5° | 9516.0  | 9671.4  | 10087.0 | 10777.3 | 11941.1 | 11785.7 | 10701.4 | 10332.8 | 10047.3 | 9599.1  | 8800.4  |
| 60°   | 8966.6  | 9125.7  | 9812.3  | 10835.1 | 12345.8 | 12443.4 | 11474.8 | 11124.3 | 10701.4 | 10112.3 | 9432.9  |
| 62.5° | 8131.8  | 8254.7  | 9219.6  | 10752.0 | 12168.8 | 12826.5 | 12013.3 | 11749.5 | 11355.6 | 10600.2 | 10159.3 |
| 65°   | 7192.1  | 7271.6  | 8225.7  | 10087.0 | 11821.8 | 12783.2 | 12457.9 | 12309.7 | 11926.6 | 11109.8 | 10878.5 |
| 67.5° | 6162.1  | 6256.0  | 7051.2  | 8890.7  | 11142.3 | 12580.8 | 12877.1 | 12862.7 | 12425.4 | 11673.6 | 11398.9 |
| 70°   | 4976.6  | 4983.9  | 5641.6  | 7372.8  | 9956.9  | 12176.0 | 13397.6 | 13430.1 | 12902.4 | 12096.5 | 11420.6 |
| 72.5° | 2381.7  | 2576.9  | 3657.5  | 5146.5  | 8092.0  | 11380.9 | 13737.3 | 13899.9 | 13202.4 | 12082.0 | 10188.2 |
| 75°   | 545.7   | 563.8   | 1066.2  | 2446.8  | 4745.3  | 8735.3  | 12888.0 | 13191.6 | 12472.3 | 10448.4 | 7177.6  |
| 77.5° | 198.8   | 209.6   | 300.0   | 715.6   | 1825.1  | 4514.0  | 9223.2  | 9667.8  | 9219.6  | 6754.8  | 3393.7  |
| 80°   | 133.7   | 130.1   | 155.4   | 318.0   | 838.5   | 1279.4  | 4716.4  | 4980.3  | 4546.6  | 2305.8  | 813.2   |
| 82.5° | 68.7    | 72.3    | 108.4   | 177.1   | 563.8   | 444.5   | 1575.8  | 1713.1  | 1409.5  | 462.6   | 151.8   |
| 85°   | 32.5    | 32.5    | 61.4    | 112.0   | 238.5   | 155.4   | 350.6   | 422.9   | 379.5   | 202.4   | 50.6    |
| 87.5° | 32.5    | 32.5    | 57.8    | 72.3    | 122.9   | 65.1    | 86.7    | 108.4   | 101.2   | 108.4   | 18.1    |
| 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°    | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 | 2425.1 |
| 2.5°  | 2407.0 | 2403.4 | 2399.8 | 2407.0 | 2403.4 | 2410.6 | 2410.6 | 2417.8 | 2417.8 | 2410.6 | 2407.0 |
| 5°    | 2374.5 | 2367.3 | 2360.0 | 2360.0 | 2356.4 | 2363.6 | 2385.3 | 2403.4 | 2407.0 | 2396.2 | 2392.5 |
| 7.5°  | 2378.1 | 2378.1 | 2370.9 | 2356.4 | 2331.1 | 2331.1 | 2331.1 | 2352.8 | 2363.6 | 2356.4 | 2352.8 |
| 10°   | 2443.1 | 2446.8 | 2428.7 | 2396.2 | 2352.8 | 2313.0 | 2237.1 | 2125.1 | 2020.3 | 1991.4 | 1980.5 |
| 12.5° | 2555.2 | 2558.8 | 2522.7 | 2464.8 | 2374.5 | 2139.6 | 1850.4 | 1583.0 | 1377.0 | 1319.2 | 1308.3 |
| 15°   | 2688.9 | 2692.5 | 2627.5 | 2533.5 | 2258.8 | 1713.1 | 1283.0 | 979.4  | 798.7  | 755.4  | 751.7  |
| 17.5° | 2826.2 | 2819.0 | 2721.4 | 2540.7 | 1915.5 | 1214.3 | 780.7  | 625.2  | 578.3  | 567.4  | 571.0  |
| 20°   | 2960.0 | 2938.3 | 2804.6 | 2407.0 | 1474.6 | 795.1  | 571.0  | 534.9  | 524.0  | 516.8  | 516.8  |
| 22.5° | 3082.8 | 3039.5 | 2873.2 | 2143.2 | 1033.6 | 571.0  | 509.6  | 502.4  | 487.9  | 477.1  | 473.5  |
| 25°   | 3205.7 | 3144.3 | 2916.6 | 1799.8 | 693.9  | 498.7  | 480.7  | 466.2  | 448.2  | 433.7  | 430.1  |
| 27.5° | 3353.9 | 3267.2 | 2894.9 | 1366.1 | 520.4  | 462.6  | 448.2  | 426.5  | 401.2  | 379.5  | 372.3  |
| 30°   | 3494.9 | 3397.3 | 2772.0 | 943.3  | 444.5  | 426.5  | 404.8  | 372.3  | 339.7  | 314.4  | 307.2  |
| 32.5° | 3671.9 | 3559.9 | 2551.6 | 618.0  | 386.7  | 372.3  | 350.6  | 310.8  | 267.4  | 238.5  | 231.3  |
| 35°   | 3924.9 | 3798.4 | 2269.7 | 433.7  | 339.7  | 314.4  | 285.5  | 242.1  | 195.2  | 173.5  | 169.9  |
| 37.5° | 4279.1 | 4109.3 | 1915.5 | 350.6  | 300.0  | 263.8  | 220.5  | 177.1  | 144.6  | 126.5  | 122.9  |
| 40°   | 4712.8 | 4452.6 | 1521.5 | 310.8  | 267.4  | 220.5  | 166.2  | 126.5  | 104.8  | 90.4   | 90.4   |
| 42.5° | 5182.7 | 4774.3 | 1120.4 | 285.5  | 234.9  | 180.7  | 122.9  | 90.4   | 75.9   | 68.7   | 65.1   |
| 45°   | 5666.9 | 5059.8 | 755.4  | 263.8  | 206.0  | 137.3  | 86.7   | 61.4   | 50.6   | 50.6   | 47.0   |
| 47.5° | 6169.3 | 5251.3 | 487.9  | 238.5  | 173.5  | 101.2  | 57.8   | 43.4   | 36.1   | 36.1   | 36.1   |
| 50°   | 6668.1 | 5352.5 | 347.0  | 216.8  | 141.0  | 68.7   | 43.4   | 32.5   | 28.9   | 28.9   | 28.9   |
| 52.5° | 7029.5 | 5287.5 | 278.3  | 187.9  | 108.4  | 50.6   | 32.5   | 25.3   | 21.7   | 21.7   | 21.7   |
| 55°   | 7343.9 | 5175.4 | 242.1  | 162.6  | 79.5   | 36.1   | 25.3   | 21.7   | 18.1   | 18.1   | 18.1   |
| 57.5° | 7665.6 | 5030.9 | 216.8  | 137.3  | 57.8   | 25.3   | 18.1   | 14.5   | 14.5   | 14.5   | 14.5   |
| 60°   | 7958.3 | 4785.1 | 187.9  | 108.4  | 39.8   | 18.1   | 14.5   | 10.8   | 10.8   | 10.8   | 10.8   |
| 62.5° | 8243.8 | 4575.5 | 162.6  | 83.1   | 28.9   | 14.5   | 7.2    | 7.2    | 3.6    | 3.6    | 3.6    |
| 65°   | 8406.5 | 4293.6 | 130.1  | 54.2   | 18.1   | 10.8   | 3.6    | 3.6    | 0.0    | 0.0    | 0.0    |
| 67.5° | 8355.9 | 3957.5 | 90.4   | 32.5   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 8005.3 | 3505.7 | 54.2   | 18.1   | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 6704.2 | 2594.9 | 32.5   | 14.5   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 4477.9 | 1192.7 | 18.1   | 10.8   | 3.6    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2049.2 | 357.8  | 10.8   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 412.0  | 94.0   | 7.2    | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 86.7   | 18.1   | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 18.1   | 7.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.2    | 3.6    | 0.0    | 0.0    | 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)