

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: P237199

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-260-D-U-T3-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1110mA 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: 20417.3 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

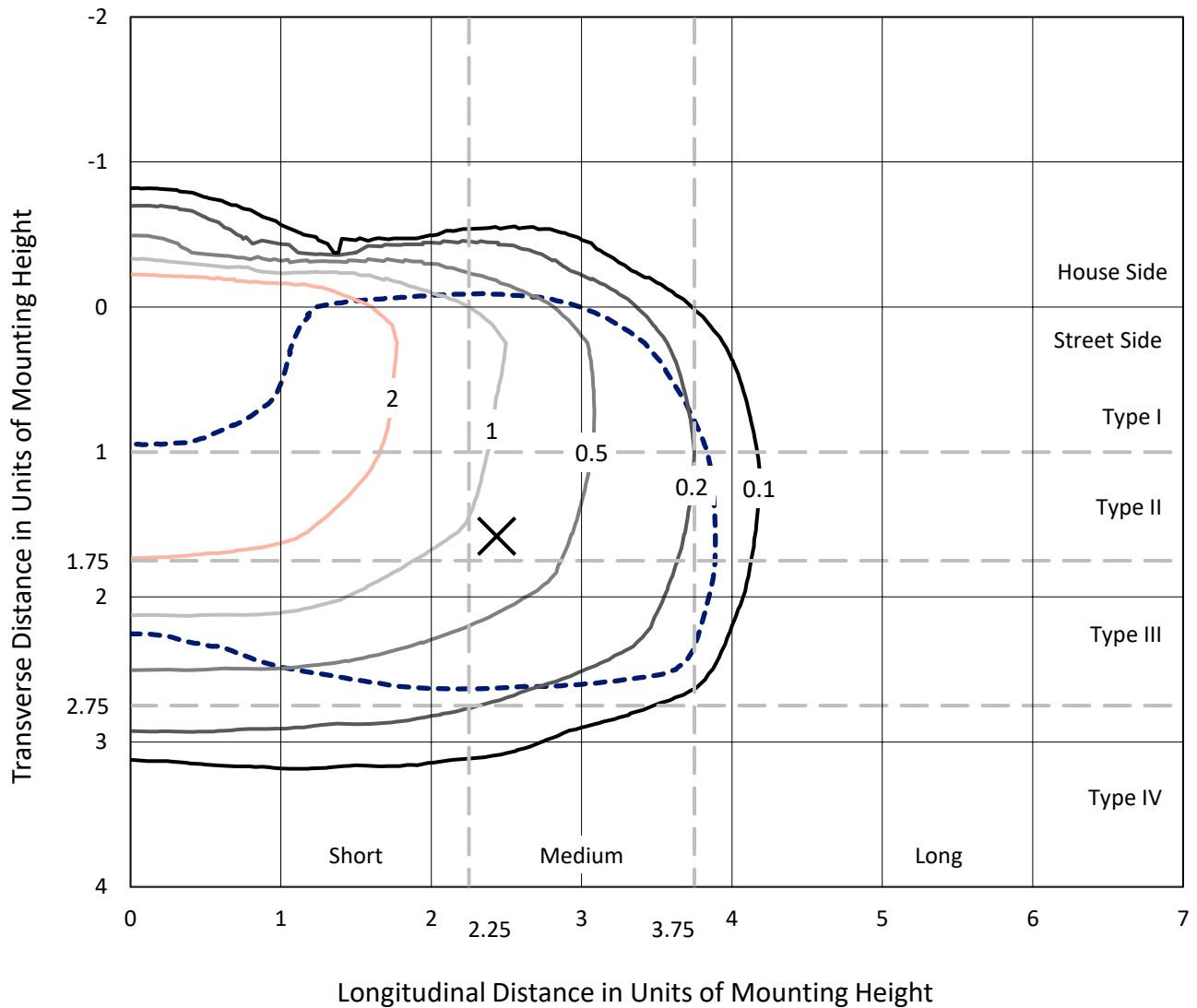
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

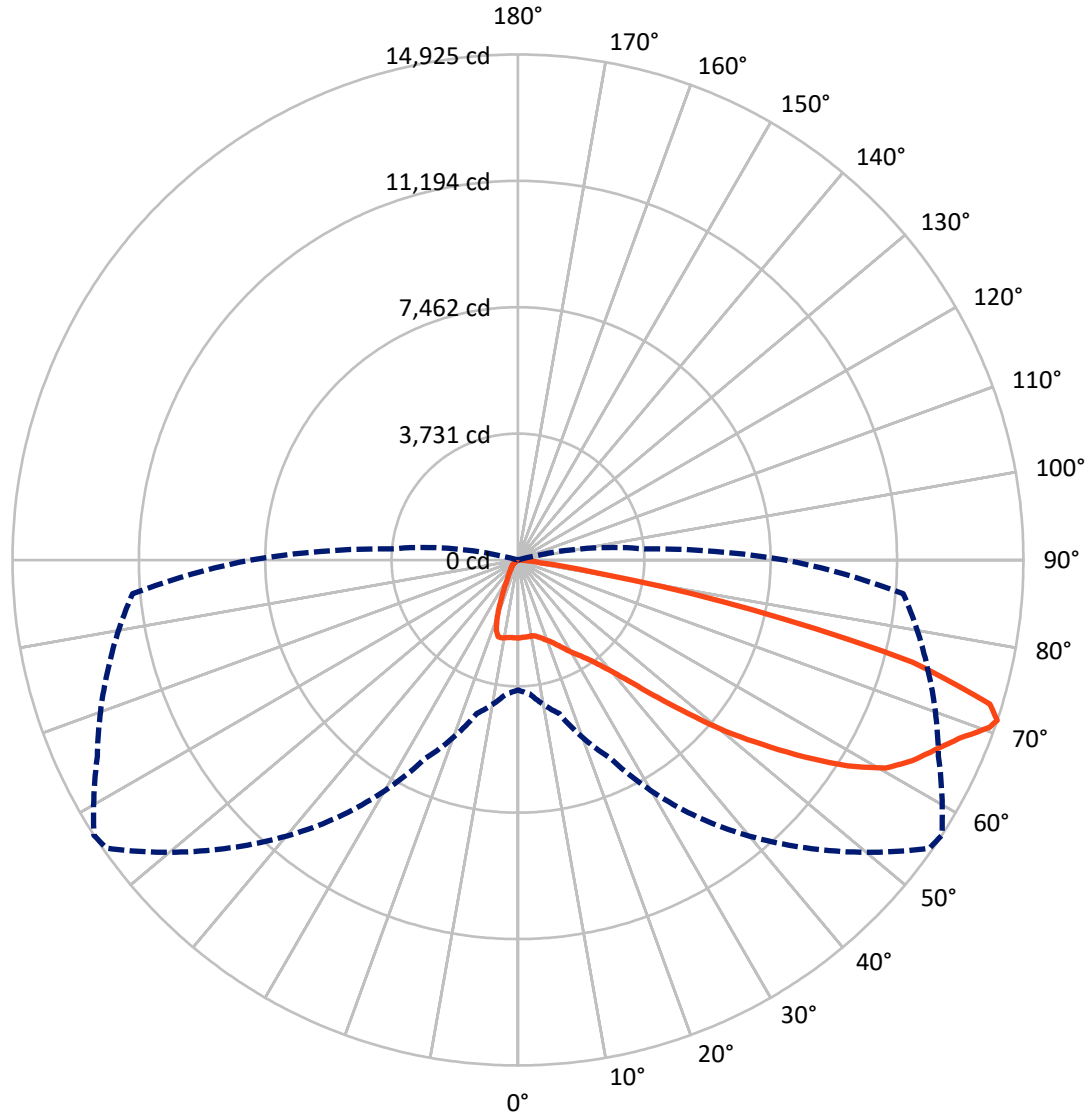
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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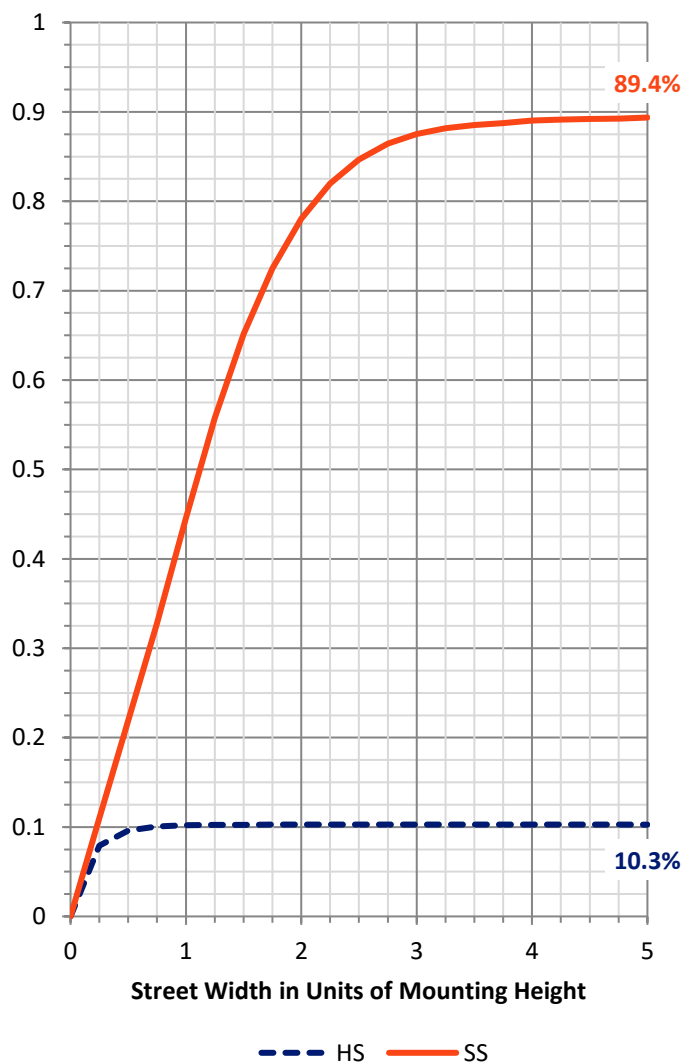
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2115.9   | 0.0    | 2115.9  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 18301.4  | 0.0    | 18301.4 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 20417.3  | 0.0    | 20417.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 216.7   | 1.1       |
| 10°-20°   | 579.4   | 2.8       |
| 20°-30°   | 903.9   | 4.4       |
| 30°-40°   | 1527.7  | 7.5       |
| 40°-50°   | 2967.2  | 14.5      |
| 50°-60°   | 4982.8  | 24.4      |
| 60°-70°   | 5946.5  | 29.1      |
| 70°-80°   | 3133.9  | 15.3      |
| 80°-90°   | 159.2   | 0.8       |
| 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°    | 20417.3 | 100.0     |
| 0°-180°   | 20417.3 | 100.0     |

**Coefficient of Utilization**

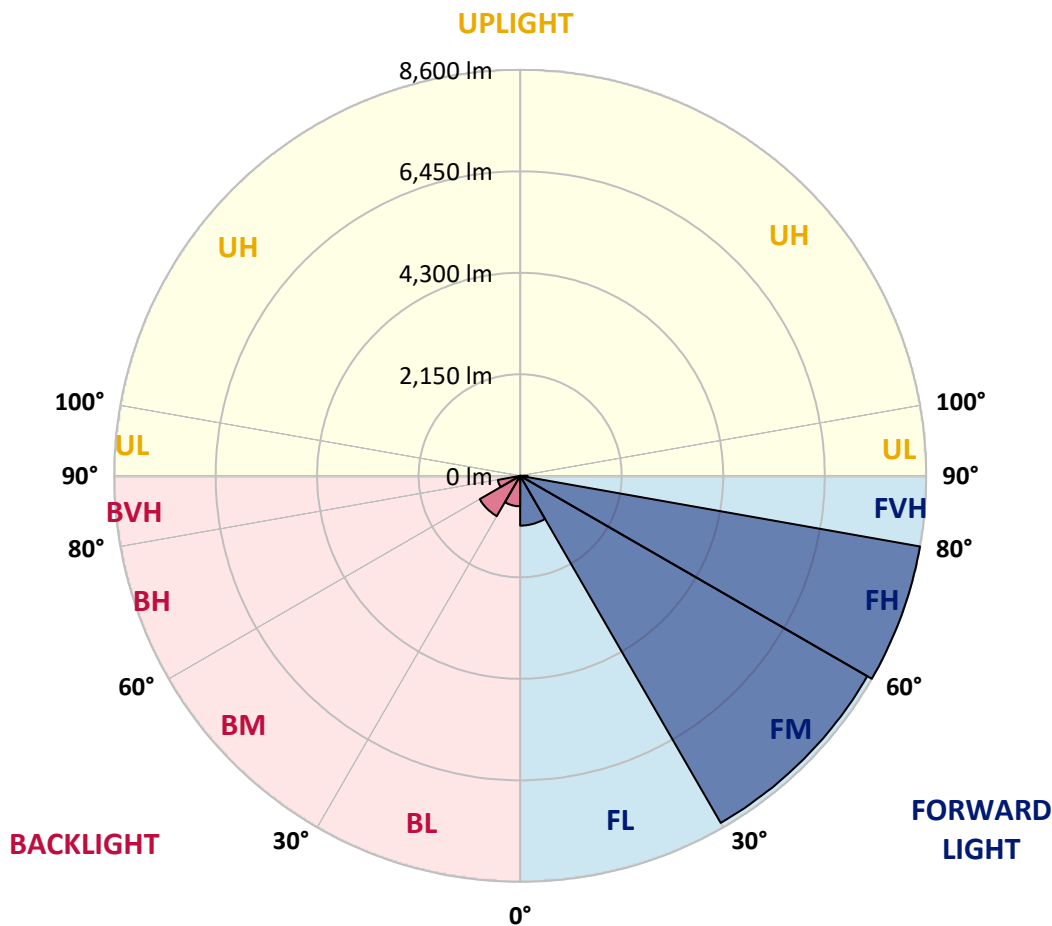


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1054.1 | 5.2       |                         |      |          |
| FM (30°-60°)   | 8489.7 | 41.6      |                         |      |          |
| FH (60°-80°)   | 8599.9 | 42.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 157.7  | 0.8       |                         |      | G2/225   |
| BL (0°-30°)    | 645.9  | 3.2       | B2/1000                 |      |          |
| BM (30°-60°)   | 988.0  | 4.8       | B1/1000                 |      |          |
| BH (60°-80°)   | 480.5  | 2.4       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 1.5    | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  | 2307.4  |
| 2.5°  | 2274.1  | 2274.1  | 2274.1  | 2278.9  | 2283.6  | 2283.6  | 2293.3  | 2288.4  | 2288.4  | 2288.4  | 2297.9  |
| 5°    | 2212.3  | 2217.1  | 2221.8  | 2231.3  | 2250.4  | 2264.6  | 2288.4  | 2288.4  | 2293.3  | 2302.7  | 2307.4  |
| 7.5°  | 2126.6  | 2131.4  | 2145.8  | 2164.8  | 2202.7  | 2236.1  | 2274.1  | 2283.6  | 2297.9  | 2321.8  | 2331.3  |
| 10°   | 2074.3  | 2083.9  | 2102.9  | 2126.6  | 2169.5  | 2212.3  | 2259.9  | 2274.1  | 2317.0  | 2359.8  | 2383.6  |
| 12.5° | 2060.1  | 2064.8  | 2083.9  | 2122.0  | 2174.3  | 2226.6  | 2288.4  | 2302.7  | 2364.6  | 2431.1  | 2469.3  |
| 15°   | 2083.9  | 2088.6  | 2098.1  | 2140.9  | 2202.7  | 2269.5  | 2350.2  | 2369.3  | 2445.4  | 2521.6  | 2569.1  |
| 17.5° | 2126.6  | 2126.6  | 2136.2  | 2174.3  | 2240.9  | 2317.0  | 2421.6  | 2450.1  | 2535.8  | 2621.4  | 2673.8  |
| 20°   | 2155.2  | 2155.2  | 2169.5  | 2207.6  | 2283.6  | 2383.6  | 2507.3  | 2545.3  | 2640.5  | 2735.7  | 2783.3  |
| 22.5° | 2183.8  | 2188.6  | 2202.7  | 2245.6  | 2331.3  | 2469.3  | 2612.0  | 2650.0  | 2759.5  | 2859.4  | 2907.0  |
| 25°   | 2264.6  | 2259.9  | 2264.6  | 2302.7  | 2402.6  | 2573.9  | 2754.7  | 2802.3  | 2916.4  | 3025.8  | 3049.7  |
| 27.5° | 2488.3  | 2478.8  | 2417.0  | 2393.1  | 2469.3  | 2683.3  | 2935.5  | 2983.0  | 3116.3  | 3225.7  | 3225.7  |
| 30°   | 3002.1  | 2983.0  | 2830.8  | 2635.8  | 2573.9  | 2783.3  | 3106.8  | 3173.3  | 3344.7  | 3439.8  | 3411.2  |
| 32.5° | 3653.8  | 3611.0  | 3416.0  | 3083.0  | 2835.6  | 2916.4  | 3287.5  | 3363.6  | 3582.5  | 3663.4  | 3601.5  |
| 35°   | 4367.5  | 4362.7  | 4120.1  | 3692.0  | 3339.8  | 3192.3  | 3520.7  | 3611.0  | 3887.0  | 3958.4  | 3858.5  |
| 37.5° | 5124.0  | 5143.1  | 4981.2  | 4391.3  | 3977.4  | 3644.4  | 3829.9  | 3934.5  | 4272.4  | 4358.1  | 4262.9  |
| 40°   | 5966.1  | 5961.3  | 5899.5  | 5200.0  | 4743.4  | 4286.7  | 4277.2  | 4372.3  | 4781.4  | 4914.7  | 4781.4  |
| 42.5° | 7031.8  | 7022.3  | 6798.6  | 6170.6  | 5671.1  | 5124.0  | 4928.9  | 4962.2  | 5418.9  | 5637.8  | 5442.8  |
| 45°   | 8116.6  | 8050.0  | 7793.0  | 7250.7  | 6808.2  | 6161.1  | 5790.0  | 5790.0  | 6180.1  | 6479.9  | 6175.5  |
| 47.5° | 8720.7  | 8654.2  | 8549.5  | 8249.7  | 8116.6  | 7393.3  | 6846.3  | 6779.6  | 7084.2  | 7388.6  | 6960.5  |
| 50°   | 9515.3  | 9515.3  | 9253.6  | 9139.4  | 9367.8  | 8858.7  | 8011.9  | 7945.4  | 8092.8  | 8335.4  | 7774.1  |
| 52.5° | 10143.3 | 10029.1 | 9843.6  | 9943.4  | 10595.3 | 10362.1 | 9177.6  | 9049.1  | 9163.2  | 9225.1  | 8482.9  |
| 55°   | 10405.0 | 10295.6 | 10281.3 | 10647.7 | 11656.3 | 11332.7 | 10371.7 | 10257.5 | 10248.0 | 9943.4  | 9101.4  |
| 57.5° | 10457.3 | 10362.1 | 10543.0 | 11185.2 | 12688.8 | 12127.2 | 11561.0 | 11475.5 | 11209.0 | 10447.8 | 9734.1  |
| 60°   | 10014.8 | 10062.4 | 10500.2 | 11480.2 | 13297.6 | 12817.1 | 12565.0 | 12474.5 | 11860.8 | 10876.0 | 10438.3 |
| 62.5° | 9106.1  | 9220.3  | 10038.6 | 11508.8 | 13074.1 | 13097.8 | 13121.6 | 13059.8 | 12365.1 | 11266.2 | 11147.1 |
| 65°   | 8030.9  | 8064.2  | 9049.1  | 11113.9 | 12683.9 | 13012.2 | 13530.7 | 13526.0 | 12750.5 | 11703.9 | 11946.5 |
| 67.5° | 6618.0  | 6674.9  | 7526.7  | 9781.8  | 11903.7 | 12974.1 | 14068.3 | 14054.1 | 13188.2 | 12203.3 | 12422.2 |
| 70°   | 4924.2  | 4995.6  | 5685.5  | 7607.5  | 10162.3 | 12498.3 | 14772.5 | 14782.0 | 13649.8 | 12584.1 | 12093.9 |
| 71°   | 3839.5  | 3967.9  | 4691.0  | 6460.9  | 9272.7  | 12017.9 | 14839.1 | 14924.7 | 13702.1 | 12531.7 | 11418.3 |
| 72.5° | 1884.0  | 2036.3  | 2945.0  | 4548.4  | 7631.3  | 10942.7 | 14401.5 | 14568.0 | 13373.8 | 11879.9 | 9762.8  |
| 75°   | 490.0   | 518.6   | 880.2   | 1860.2  | 4091.5  | 7250.7  | 11613.3 | 12036.9 | 10933.1 | 9044.3  | 5966.1  |
| 77.5° | 309.2   | 318.7   | 413.9   | 723.2   | 1532.0  | 2754.7  | 6822.4  | 7031.8  | 6246.8  | 4581.6  | 2102.9  |
| 80°   | 218.8   | 223.7   | 261.6   | 466.2   | 894.4   | 804.0   | 2454.9  | 2545.3  | 2259.9  | 1213.3  | 375.9   |
| 82.5° | 133.2   | 133.2   | 190.3   | 299.7   | 551.9   | 437.7   | 647.1   | 689.9   | 609.0   | 337.8   | 123.7   |
| 85°   | 76.2    | 80.9    | 119.0   | 204.6   | 261.6   | 214.1   | 242.7   | 256.9   | 261.6   | 223.7   | 52.3    |
| 87.5° | 61.8    | 66.6    | 104.7   | 171.3   | 142.7   | 104.7   | 104.7   | 109.5   | 114.1   | 133.2   | 23.8    |
| 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°    | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 | 2307.4 |
| 2.5°  | 2297.9 | 2297.9 | 2302.7 | 2297.9 | 2297.9 | 2297.9 | 2302.7 | 2302.7 | 2302.7 | 2312.3 | 2317.0 |
| 5°    | 2307.4 | 2307.4 | 2307.4 | 2302.7 | 2297.9 | 2297.9 | 2307.4 | 2312.3 | 2312.3 | 2326.4 | 2326.4 |
| 7.5°  | 2331.3 | 2331.3 | 2321.8 | 2312.3 | 2302.7 | 2288.4 | 2293.3 | 2297.9 | 2293.3 | 2297.9 | 2297.9 |
| 10°   | 2383.6 | 2383.6 | 2369.3 | 2350.2 | 2321.8 | 2278.9 | 2221.8 | 2150.4 | 2083.9 | 2060.1 | 2050.6 |
| 12.5° | 2469.3 | 2464.5 | 2435.9 | 2402.6 | 2340.8 | 2193.3 | 1979.2 | 1727.1 | 1517.7 | 1460.6 | 1441.5 |
| 15°   | 2564.5 | 2554.8 | 2521.6 | 2464.5 | 2297.9 | 1907.7 | 1460.6 | 1137.1 | 937.2  | 889.7  | 880.2  |
| 17.5° | 2664.3 | 2650.0 | 2602.4 | 2488.3 | 2102.9 | 1417.7 | 942.1  | 713.7  | 604.2  | 594.7  | 599.5  |
| 20°   | 2768.9 | 2749.9 | 2683.3 | 2440.7 | 1698.4 | 946.7  | 609.0  | 551.9  | 542.4  | 542.4  | 547.2  |
| 22.5° | 2887.9 | 2864.1 | 2773.8 | 2269.5 | 1237.1 | 628.0  | 523.4  | 518.6  | 513.8  | 509.0  | 509.0  |
| 25°   | 3025.8 | 2997.3 | 2859.4 | 1960.1 | 851.5  | 513.8  | 499.6  | 485.3  | 475.8  | 466.2  | 461.5  |
| 27.5° | 3192.3 | 3154.4 | 2926.0 | 1579.6 | 585.2  | 480.5  | 471.0  | 447.2  | 428.2  | 409.1  | 409.1  |
| 30°   | 3358.9 | 3311.3 | 2907.0 | 1189.4 | 475.8  | 447.2  | 428.2  | 399.7  | 371.1  | 352.1  | 347.3  |
| 32.5° | 3535.0 | 3487.3 | 2783.3 | 799.2  | 433.0  | 409.1  | 385.3  | 342.5  | 309.2  | 285.5  | 280.7  |
| 35°   | 3796.6 | 3758.5 | 2540.6 | 528.0  | 390.2  | 361.5  | 328.4  | 285.5  | 242.7  | 218.8  | 214.1  |
| 37.5° | 4186.7 | 4139.2 | 2240.9 | 404.4  | 342.5  | 299.7  | 271.2  | 223.7  | 180.9  | 157.0  | 152.2  |
| 40°   | 4710.0 | 4567.4 | 1884.0 | 356.8  | 299.7  | 247.4  | 209.3  | 161.8  | 128.5  | 114.1  | 114.1  |
| 42.5° | 5319.1 | 4981.2 | 1498.7 | 323.5  | 266.4  | 204.6  | 152.2  | 109.5  | 90.3   | 85.7   | 85.7   |
| 45°   | 5966.1 | 5366.6 | 1113.3 | 299.7  | 233.2  | 161.8  | 109.5  | 76.2   | 66.6   | 61.8   | 61.8   |
| 47.5° | 6632.1 | 5680.6 | 775.5  | 271.2  | 195.0  | 123.7  | 76.2   | 57.2   | 47.5   | 42.8   | 42.8   |
| 50°   | 7255.5 | 5885.2 | 547.2  | 242.7  | 166.5  | 90.3   | 57.2   | 42.8   | 33.4   | 33.4   | 33.4   |
| 52.5° | 7688.3 | 5866.2 | 394.9  | 209.3  | 128.5  | 61.8   | 38.0   | 28.5   | 28.5   | 28.5   | 28.5   |
| 55°   | 8069.1 | 5794.8 | 309.2  | 180.9  | 99.9   | 42.8   | 28.5   | 23.8   | 23.8   | 19.0   | 19.0   |
| 57.5° | 8392.5 | 5680.6 | 261.6  | 147.5  | 71.3   | 33.4   | 19.0   | 19.0   | 14.3   | 14.3   | 14.3   |
| 60°   | 8668.4 | 5538.0 | 218.8  | 123.7  | 47.5   | 23.8   | 14.3   | 9.5    | 9.5    | 4.8    | 9.5    |
| 62.5° | 9044.3 | 5447.5 | 190.3  | 95.2   | 33.4   | 14.3   | 9.5    | 4.8    | 4.8    | 0.0    | 0.0    |
| 65°   | 9320.3 | 5276.2 | 161.8  | 66.6   | 19.0   | 9.5    | 4.8    | 4.8    | 0.0    | 0.0    | 0.0    |
| 67.5° | 9329.7 | 4967.0 | 119.0  | 38.0   | 14.3   | 9.5    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 8578.1 | 4234.4 | 76.2   | 19.0   | 9.5    | 4.8    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 71°   | 7888.2 | 3749.0 | 61.8   | 14.3   | 9.5    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 6499.0 | 2754.7 | 47.5   | 14.3   | 4.8    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 3582.5 | 999.0  | 23.8   | 9.5    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1146.5 | 304.5  | 14.3   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 195.0  | 47.5   | 9.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 66.6   | 19.0   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.0   | 9.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 9.5    | 4.8    | 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)