

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: P399348

Luminaire Tested: **ARCH-L-PA3-130-730-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-730-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19181 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

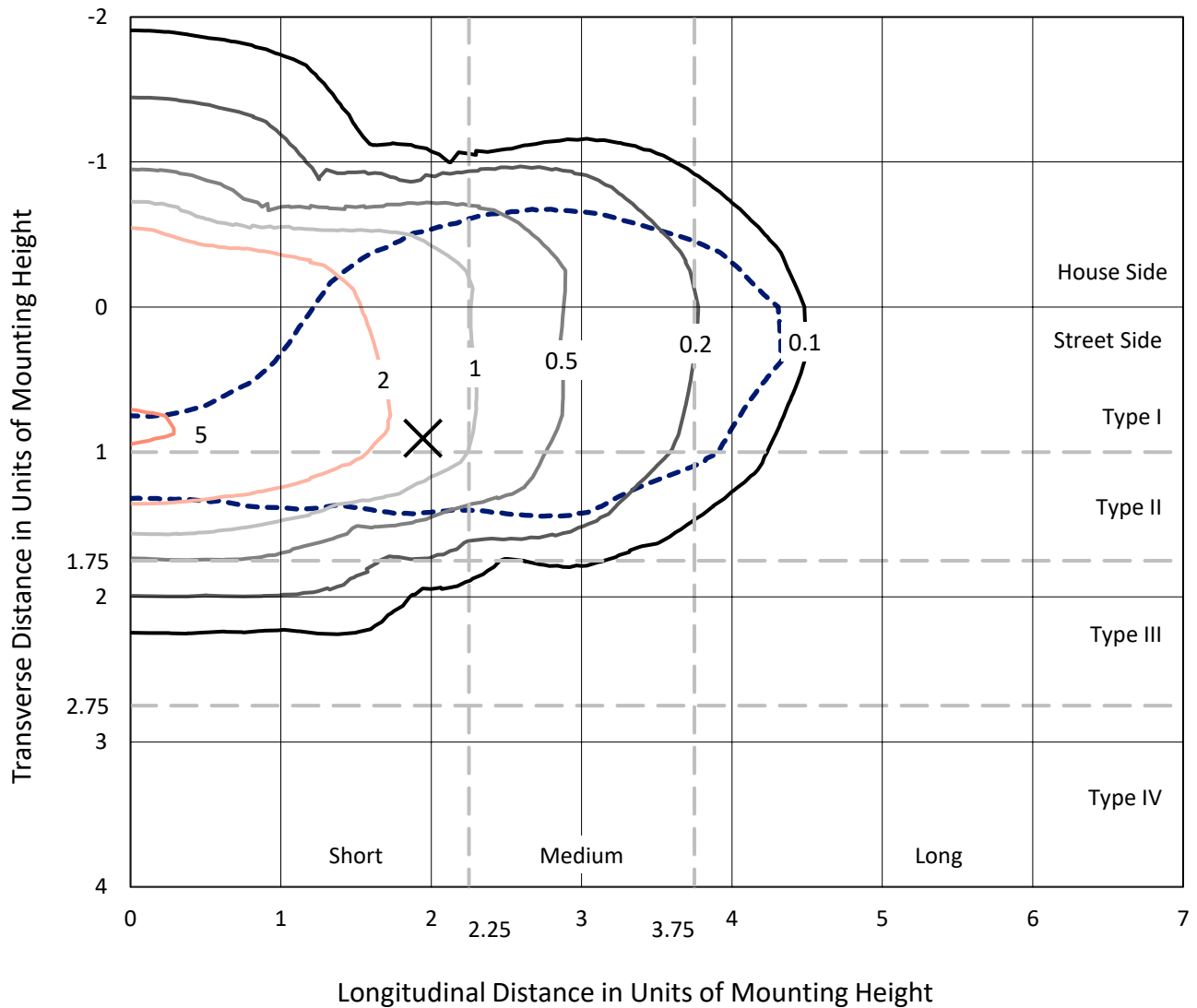
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

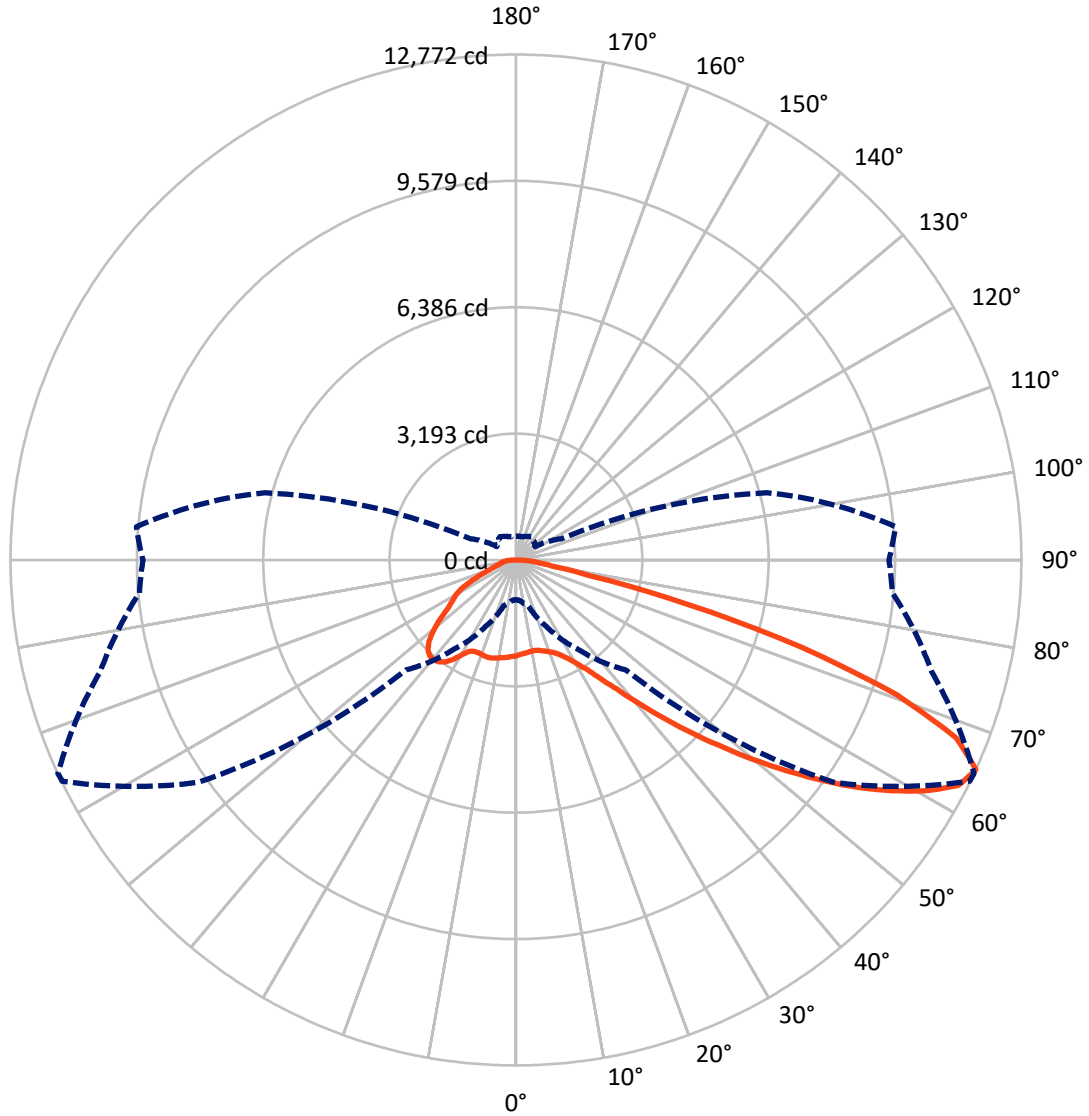
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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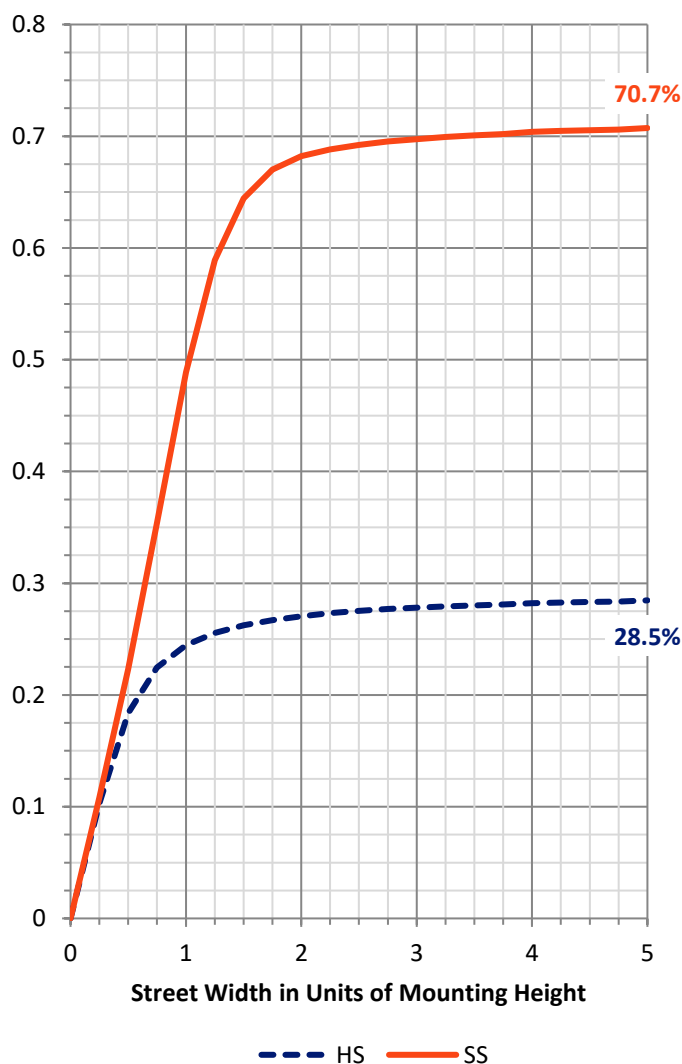
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5545.5   | 0.0    | 5545.5  |
|                    | % Fixture | 28.9     | 0.0    | 28.9    |
| <b>Street Side</b> | Lumens    | 13635.5  | 0.0    | 13635.5 |
|                    | % Fixture | 71.1     | 0.0    | 71.1    |
| <b>Total</b>       | Lumens    | 19181.0  | 0.0    | 19181.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.9   | 1.2       |
| 10°-20°   | 689.4   | 3.6       |
| 20°-30°   | 1224.6  | 6.4       |
| 30°-40°   | 2071.7  | 10.8      |
| 40°-50°   | 3606.4  | 18.8      |
| 50°-60°   | 4660.6  | 24.3      |
| 60°-70°   | 4078.3  | 21.3      |
| 70°-80°   | 2218.3  | 11.6      |
| 80°-90°   | 400.8   | 2.1       |
| 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°    | 19181.0 | 100.0     |
| 0°-180°   | 19181.0 | 100.0     |

**Coefficient of Utilization**



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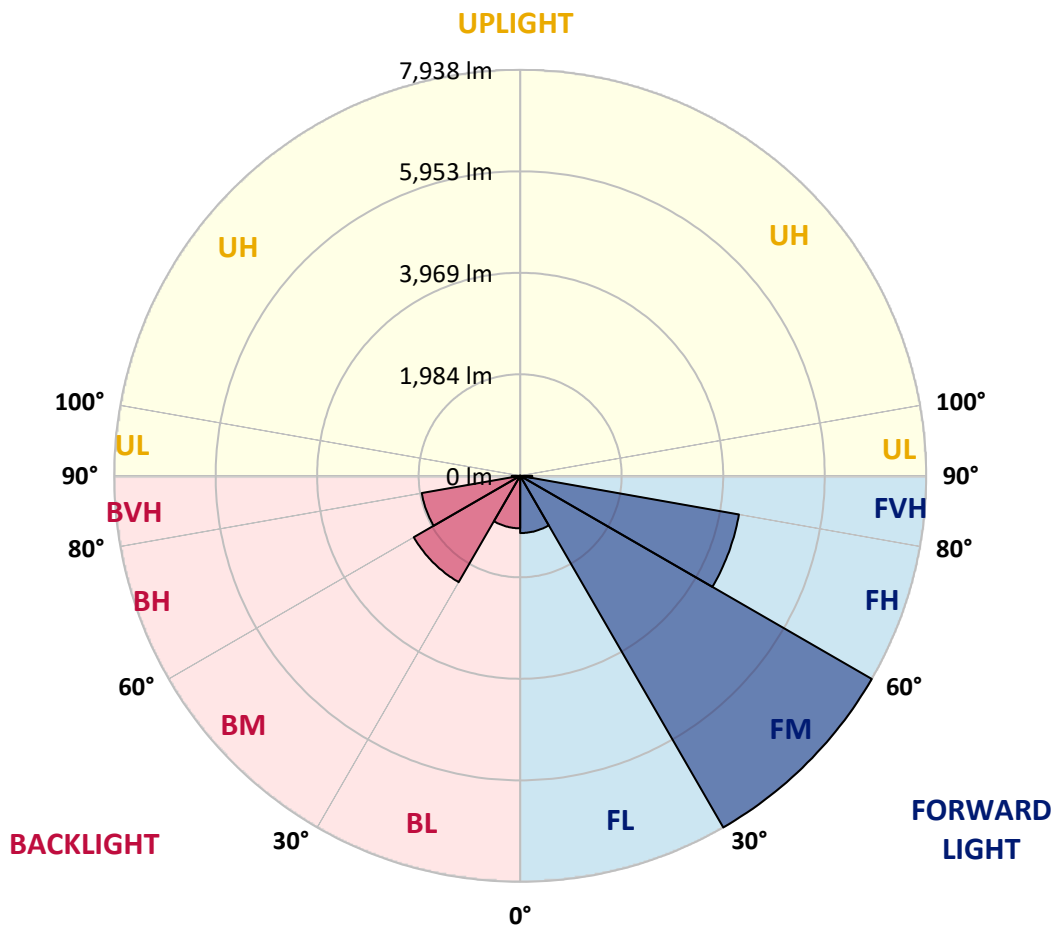
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1119.2 | 5.8       |                         |      |         |
| FM (30°-60°)   | 7937.6 | 41.4      |                         |      |         |
| FH (60°-80°)   | 4342.9 | 22.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 235.9  | 1.2       |                         |      | G3/500  |
| BL (0°-30°)    | 1025.7 | 5.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 2401.1 | 12.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 1953.7 | 10.2      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 164.9  | 0.9       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 64°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7  | 2423.7  | 2423.7  | 2423.7  | 2423.7  | 2423.7 |
| 2.5°  | 2380.8 | 2378.3 | 2373.2 | 2378.3 | 2380.8 | 2385.8  | 2383.3  | 2388.4  | 2385.8  | 2393.4  | 2406.0 |
| 5°    | 2320.2 | 2315.1 | 2312.6 | 2325.2 | 2332.8 | 2345.4  | 2350.5  | 2368.2  | 2365.6  | 2378.3  | 2398.5 |
| 7.5°  | 2252.0 | 2252.0 | 2249.5 | 2264.6 | 2274.7 | 2297.5  | 2315.1  | 2345.4  | 2348.0  | 2370.7  | 2393.4 |
| 10°   | 2199.0 | 2201.5 | 2199.0 | 2211.6 | 2226.8 | 2254.5  | 2284.8  | 2327.8  | 2330.3  | 2363.1  | 2385.8 |
| 12.5° | 2178.8 | 2178.8 | 2178.8 | 2196.5 | 2216.7 | 2254.5  | 2289.9  | 2335.3  | 2340.4  | 2375.7  | 2395.9 |
| 15°   | 2206.6 | 2209.1 | 2204.1 | 2221.7 | 2244.5 | 2289.9  | 2322.7  | 2370.7  | 2375.7  | 2408.6  | 2421.2 |
| 17.5° | 2305.0 | 2315.1 | 2302.5 | 2312.6 | 2307.6 | 2342.9  | 2373.2  | 2421.2  | 2423.7  | 2451.5  | 2456.5 |
| 20°   | 2499.4 | 2509.5 | 2489.3 | 2476.7 | 2431.3 | 2428.8  | 2441.4  | 2479.2  | 2479.2  | 2496.9  | 2484.3 |
| 22.5° | 2799.9 | 2810.0 | 2774.6 | 2726.7 | 2618.1 | 2565.1  | 2537.3  | 2555.0  | 2552.5  | 2560.0  | 2527.2 |
| 25°   | 3198.8 | 3196.3 | 3153.3 | 3065.0 | 2890.8 | 2762.0  | 2693.8  | 2666.1  | 2666.1  | 2650.9  | 2610.5 |
| 27.5° | 3693.6 | 3655.8 | 3580.0 | 3474.0 | 3231.6 | 3052.4  | 2905.9  | 2835.2  | 2822.6  | 2777.2  | 2701.4 |
| 30°   | 4221.3 | 4193.5 | 4085.0 | 3930.9 | 3650.7 | 3421.0  | 3178.6  | 3037.2  | 3029.6  | 2931.2  | 2817.6 |
| 32.5° | 4842.4 | 4796.9 | 4675.7 | 4491.4 | 4155.6 | 3832.5  | 3529.5  | 3314.9  | 3302.3  | 3145.8  | 2989.2 |
| 35°   | 5640.2 | 5602.3 | 5367.5 | 5183.2 | 4751.5 | 4327.3  | 3968.8  | 3683.5  | 3673.4  | 3481.5  | 3282.1 |
| 37.5° | 6597.0 | 6498.6 | 6271.3 | 5925.5 | 5471.0 | 4968.6  | 4514.1  | 4155.6  | 4143.0  | 3930.9  | 3678.5 |
| 40°   | 7450.4 | 7362.0 | 7160.0 | 6841.9 | 6354.6 | 5796.7  | 5180.7  | 4746.4  | 4733.8  | 4476.3  | 4158.2 |
| 42.5° | 8081.5 | 8020.9 | 7889.7 | 7705.4 | 7357.0 | 7018.6  | 6031.5  | 5460.9  | 5438.2  | 5104.9  | 4708.6 |
| 45°   | 8447.6 | 8399.6 | 8323.9 | 8369.4 | 8364.3 | 8301.2  | 7046.4  | 6311.7  | 6238.5  | 5806.8  | 5322.1 |
| 47.5° | 8359.3 | 8316.3 | 8346.6 | 8700.1 | 9187.4 | 9553.4  | 8228.0  | 7182.7  | 7084.3  | 6521.3  | 5975.9 |
| 50°   | 7720.5 | 7738.2 | 7897.2 | 8573.9 | 9667.0 | 10480.0 | 9538.3  | 8175.0  | 8043.7  | 7240.8  | 6597.0 |
| 52.5° | 6556.6 | 6599.5 | 6985.8 | 7932.6 | 9614.0 | 11080.9 | 10722.4 | 9200.0  | 9025.8  | 7942.7  | 7162.6 |
| 55°   | 5208.4 | 5317.0 | 5816.9 | 6811.6 | 8922.3 | 11123.8 | 11616.1 | 10230.1 | 10038.2 | 8601.6  | 7654.9 |
| 57.5° | 3852.7 | 4014.3 | 4592.4 | 5506.4 | 7596.8 | 10444.6 | 12063.0 | 11214.7 | 10982.4 | 9255.5  | 8175.0 |
| 60°   | 2443.9 | 2542.4 | 3208.9 | 4286.9 | 5814.4 | 8783.4  | 12004.9 | 12052.9 | 11850.9 | 9906.9  | 8717.8 |
| 62.5° | 1560.3 | 1608.2 | 1944.0 | 3057.4 | 4064.8 | 6503.6  | 11371.2 | 12686.6 | 12550.2 | 10500.2 | 9232.8 |
| 65°   | 1002.3 | 1022.5 | 1194.2 | 1880.9 | 2767.1 | 3925.9  | 9793.3  | 12754.7 | 12772.4 | 10871.3 | 9550.9 |
| 67.5° | 815.5  | 825.6  | 888.7  | 1161.4 | 1956.6 | 2168.7  | 6821.7  | 11785.3 | 11999.9 | 10775.4 | 9442.3 |
| 70°   | 742.3  | 754.9  | 820.5  | 926.6  | 1514.8 | 1497.1  | 3302.3  | 9861.4  | 10212.4 | 10222.5 | 8960.1 |
| 72.5° | 626.1  | 643.8  | 732.2  | 876.1  | 1171.5 | 1181.6  | 1398.7  | 7023.7  | 7541.3  | 9136.9  | 8235.5 |
| 75°   | 522.6  | 532.7  | 608.5  | 772.6  | 992.2  | 944.2   | 982.1   | 3723.9  | 4471.2  | 7326.7  | 7465.5 |
| 77.5° | 424.1  | 434.2  | 489.8  | 616.0  | 881.1  | 734.7   | 772.6   | 1542.6  | 1906.1  | 4973.6  | 6102.2 |
| 80°   | 303.0  | 313.1  | 376.2  | 479.7  | 666.5  | 661.5   | 573.1   | 850.8   | 924.0   | 2688.8  | 3963.8 |
| 82.5° | 217.1  | 224.7  | 285.3  | 343.4  | 462.0  | 664.0   | 431.7   | 578.2   | 605.9   | 1191.7  | 1598.1 |
| 85°   | 146.4  | 146.4  | 196.9  | 227.2  | 297.9  | 419.1   | 348.4   | 391.3   | 409.0   | 565.5   | 431.7  |
| 87.5° | 63.1   | 63.1   | 106.0  | 116.1  | 156.5  | 194.4   | 260.0   | 196.9   | 202.0   | 305.5   | 176.7  |
| 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°    | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 | 2423.7 |
| 2.5°  | 2413.6 | 2416.1 | 2421.2 | 2436.3 | 2446.4 | 2461.6 | 2469.1 | 2479.2 | 2479.2 | 2474.2 | 2476.7 |
| 5°    | 2408.6 | 2416.1 | 2433.8 | 2461.6 | 2479.2 | 2507.0 | 2527.2 | 2542.4 | 2547.4 | 2542.4 | 2544.9 |
| 7.5°  | 2406.0 | 2418.7 | 2449.0 | 2489.3 | 2514.6 | 2549.9 | 2577.7 | 2595.4 | 2608.0 | 2603.0 | 2605.5 |
| 10°   | 2398.5 | 2418.7 | 2456.5 | 2507.0 | 2544.9 | 2580.2 | 2605.5 | 2613.1 | 2620.6 | 2615.6 | 2613.1 |
| 12.5° | 2408.6 | 2431.3 | 2471.7 | 2532.3 | 2575.2 | 2603.0 | 2610.5 | 2597.9 | 2580.2 | 2570.1 | 2567.6 |
| 15°   | 2428.8 | 2451.5 | 2491.9 | 2555.0 | 2592.9 | 2603.0 | 2585.3 | 2544.9 | 2504.5 | 2481.8 | 2479.2 |
| 17.5° | 2456.5 | 2471.7 | 2504.5 | 2560.0 | 2590.3 | 2577.7 | 2542.4 | 2494.4 | 2464.1 | 2446.4 | 2449.0 |
| 20°   | 2474.2 | 2474.2 | 2499.4 | 2542.4 | 2567.6 | 2557.5 | 2514.6 | 2461.6 | 2413.6 | 2390.9 | 2383.3 |
| 22.5° | 2499.4 | 2486.8 | 2489.3 | 2527.2 | 2562.6 | 2547.4 | 2456.5 | 2363.1 | 2294.9 | 2269.7 | 2267.2 |
| 25°   | 2567.6 | 2532.3 | 2509.5 | 2532.3 | 2615.6 | 2491.9 | 2310.1 | 2201.5 | 2138.4 | 2115.7 | 2118.2 |
| 27.5° | 2650.9 | 2603.0 | 2555.0 | 2592.9 | 2658.5 | 2365.6 | 2123.3 | 1999.6 | 1961.7 | 1944.0 | 1951.6 |
| 30°   | 2734.2 | 2671.1 | 2608.0 | 2744.3 | 2628.2 | 2168.7 | 1883.4 | 1762.2 | 1729.4 | 1716.8 | 1726.9 |
| 32.5° | 2888.2 | 2784.7 | 2709.0 | 2946.3 | 2534.8 | 1944.0 | 1623.4 | 1512.3 | 1482.0 | 1466.8 | 1461.8 |
| 35°   | 3145.8 | 3014.5 | 2938.7 | 3123.0 | 2403.5 | 1694.1 | 1386.1 | 1307.8 | 1275.0 | 1242.1 | 1237.1 |
| 37.5° | 3516.9 | 3357.8 | 3289.7 | 3224.0 | 2219.2 | 1446.6 | 1204.3 | 1151.3 | 1103.3 | 1052.8 | 1050.3 |
| 40°   | 3961.2 | 3754.2 | 3703.7 | 3269.5 | 1964.2 | 1214.4 | 1078.0 | 1027.5 | 967.0  | 919.0  | 921.5  |
| 42.5° | 4473.8 | 4208.7 | 4100.1 | 3256.9 | 1648.6 | 1090.7 | 987.2  | 931.6  | 878.6  | 835.7  | 833.1  |
| 45°   | 5021.6 | 4721.2 | 4471.2 | 3168.5 | 1335.6 | 1004.8 | 931.6  | 866.0  | 813.0  | 765.0  | 759.9  |
| 47.5° | 5627.5 | 5291.8 | 4814.6 | 2996.8 | 1103.3 | 944.2  | 898.8  | 805.4  | 757.4  | 727.1  | 727.1  |
| 50°   | 6238.5 | 5837.1 | 5130.2 | 2736.8 | 967.0  | 898.8  | 850.8  | 772.6  | 734.7  | 709.4  | 709.4  |
| 52.5° | 6761.1 | 6405.1 | 5390.2 | 2426.2 | 881.1  | 860.9  | 818.0  | 757.4  | 717.0  | 694.3  | 691.8  |
| 55°   | 7268.6 | 6932.8 | 5622.5 | 2118.2 | 810.4  | 810.4  | 810.4  | 744.8  | 699.3  | 679.1  | 676.6  |
| 57.5° | 7773.5 | 7488.2 | 5864.9 | 1916.2 | 747.3  | 767.5  | 795.3  | 729.6  | 684.2  | 666.5  | 664.0  |
| 60°   | 8344.1 | 8154.8 | 6145.1 | 1774.9 | 691.8  | 722.1  | 775.1  | 712.0  | 658.9  | 643.8  | 641.3  |
| 62.5° | 8950.0 | 8950.0 | 6400.1 | 1575.4 | 641.3  | 684.2  | 744.8  | 689.2  | 636.2  | 623.6  | 621.1  |
| 65°   | 9424.7 | 9629.2 | 6564.2 | 1277.5 | 590.8  | 646.3  | 709.4  | 658.9  | 605.9  | 603.4  | 598.4  |
| 67.5° | 9480.2 | 9800.9 | 6460.7 | 964.4  | 545.3  | 605.9  | 674.1  | 626.1  | 575.6  | 575.6  | 568.1  |
| 70°   | 9081.3 | 9407.0 | 6137.5 | 722.1  | 512.5  | 565.5  | 628.6  | 585.7  | 537.8  | 542.8  | 530.2  |
| 72.5° | 8414.8 | 8495.6 | 5334.7 | 570.6  | 474.6  | 522.6  | 573.1  | 540.3  | 497.4  | 497.4  | 479.7  |
| 75°   | 7536.2 | 7086.8 | 3875.4 | 477.2  | 429.2  | 472.1  | 517.6  | 489.8  | 451.9  | 439.3  | 429.2  |
| 77.5° | 5998.7 | 5135.2 | 2252.0 | 411.5  | 391.3  | 424.1  | 454.4  | 434.2  | 401.4  | 373.7  | 373.7  |
| 80°   | 3655.8 | 3009.4 | 994.7  | 356.0  | 345.9  | 371.1  | 391.3  | 368.6  | 340.8  | 313.1  | 305.5  |
| 82.5° | 1391.1 | 1161.4 | 482.2  | 305.5  | 303.0  | 318.1  | 333.3  | 310.5  | 290.3  | 277.7  | 239.8  |
| 85°   | 381.2  | 350.9  | 330.7  | 255.0  | 249.9  | 247.4  | 265.1  | 255.0  | 227.2  | 186.8  | 166.6  |
| 87.5° | 143.9  | 164.1  | 179.3  | 156.5  | 166.6  | 154.0  | 176.7  | 161.6  | 143.9  | 93.4   | 83.3   |
| 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)