

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: P1210971

Luminaire Tested: **ARCH4-130-727-U-T3RE**

Issue Date: 11/5/2025

### Test Information

Test Method: LM-79-08  
Report Number: P1210971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/5/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-130-727-U-T3RE  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III  
ROADWAY ILLUMINANCE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20562 lumens  
Efficiency: N/A  
Efficacy: 155.8 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 132  
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

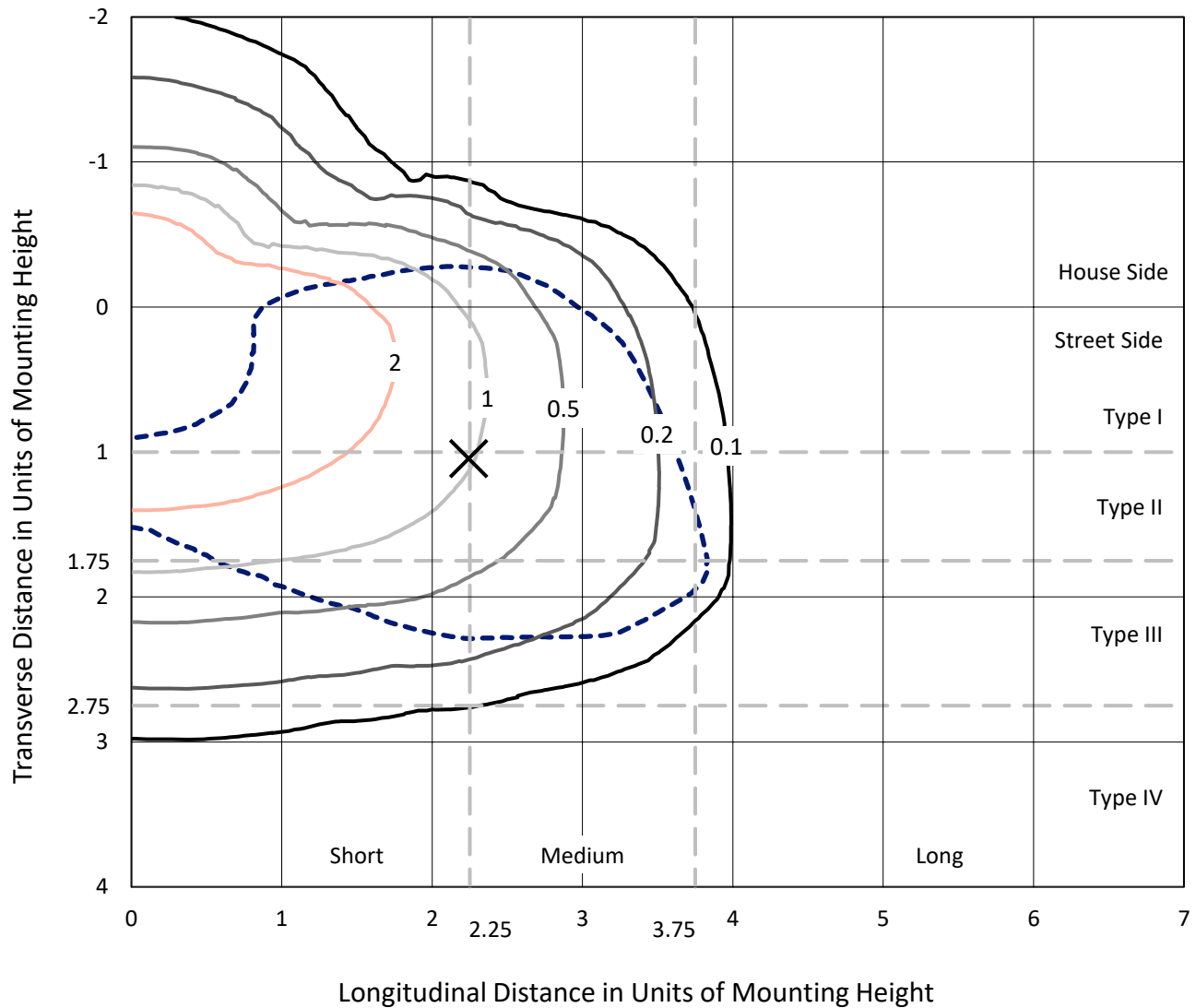


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

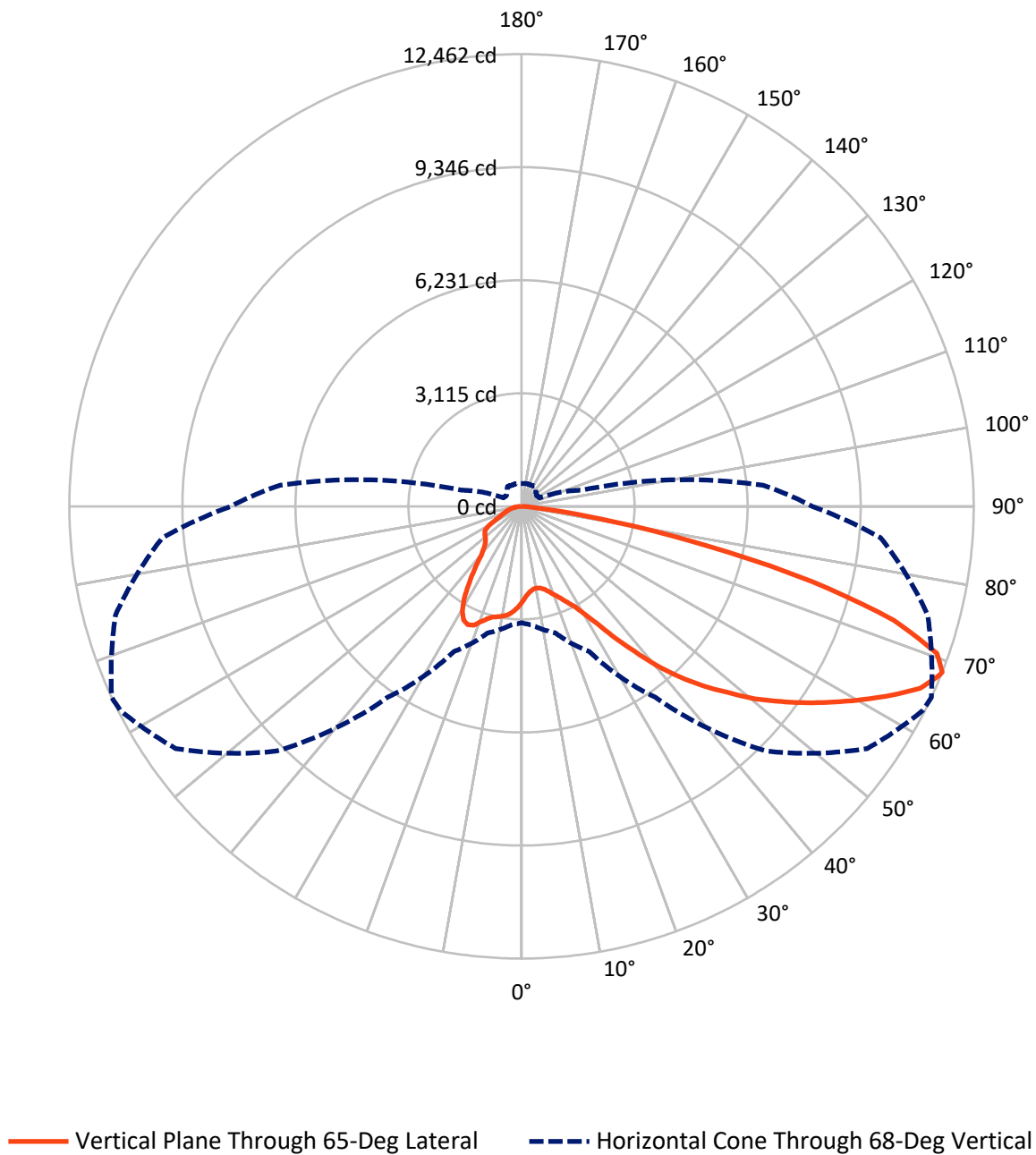


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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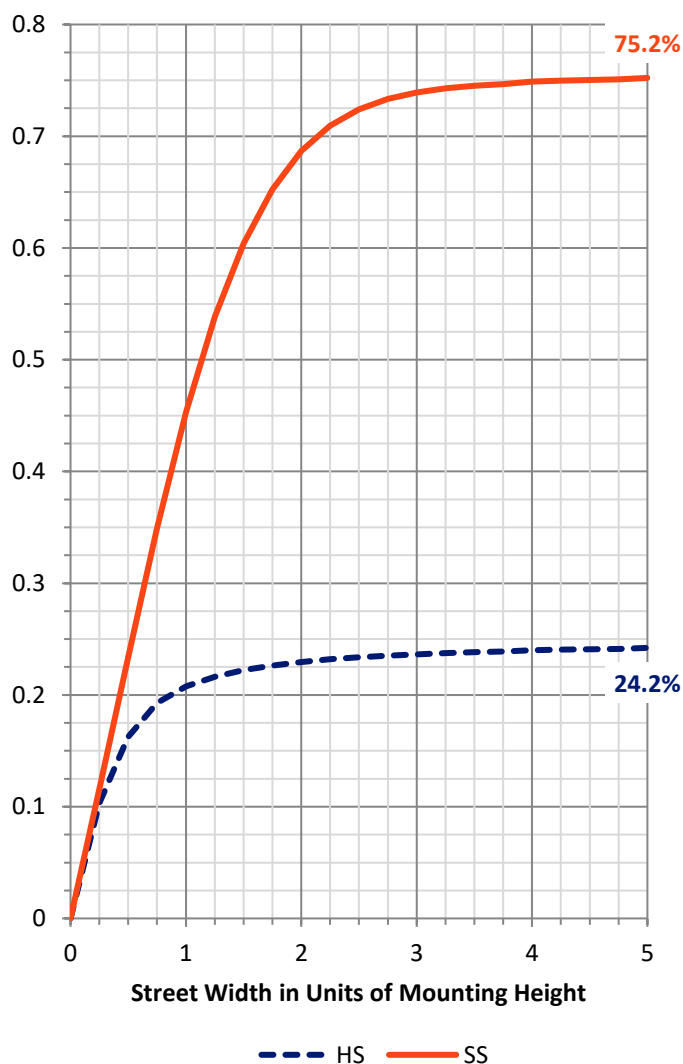
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5041.2   | 0.0    | 5041.2  |
|                    | % Fixture | 24.5     | 0.0    | 24.5    |
| <b>Street Side</b> | Lumens    | 15520.8  | 0.0    | 15520.8 |
|                    | % Fixture | 75.5     | 0.0    | 75.5    |
| <b>Total</b>       | Lumens    | 20562.0  | 0.0    | 20562.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 251.1   | 1.2       |
| 10°-20°   | 817.6   | 4.0       |
| 20°-30°   | 1479.9  | 7.2       |
| 30°-40°   | 2328.0  | 11.3      |
| 40°-50°   | 3467.2  | 16.9      |
| 50°-60°   | 4548.3  | 22.1      |
| 60°-70°   | 4973.9  | 24.2      |
| 70°-80°   | 2461.2  | 12.0      |
| 80°-90°   | 234.8   | 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°    | 20562.0 | 100.0     |
| 0°-180°   | 20562.0 | 100.0     |

**Coefficient of Utilization**



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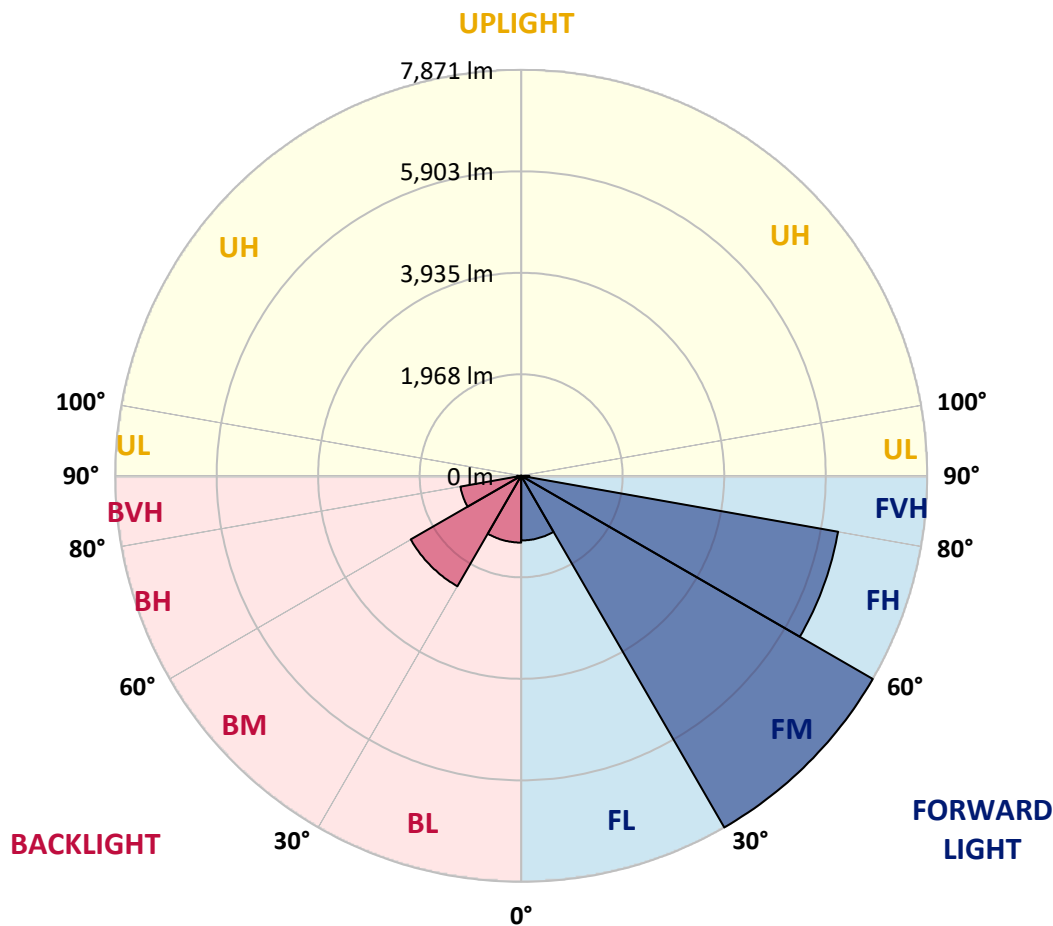
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1253.5 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 7870.8 | 38.3      |                         |      |         |
| FH   | (60°-80°)   | 6238.6 | 30.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 157.9  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1295.1 | 6.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2472.7 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1196.5 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 76.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6  | 2627.6  | 2627.6  | 2627.6  | 2627.6  |
| 2.5°  | 2293.5 | 2288.2 | 2301.4 | 2314.7 | 2343.9 | 2378.3 | 2426.1  | 2465.8  | 2471.1  | 2545.4  | 2603.7  |
| 5°    | 2158.3 | 2150.3 | 2163.6 | 2179.5 | 2192.7 | 2235.2 | 2285.5  | 2343.9  | 2367.7  | 2476.4  | 2601.1  |
| 7.5°  | 2171.5 | 2168.9 | 2174.2 | 2168.9 | 2168.9 | 2187.4 | 2221.9  | 2280.2  | 2306.7  | 2436.7  | 2614.3  |
| 10°   | 2248.4 | 2253.7 | 2256.4 | 2240.5 | 2224.6 | 2216.6 | 2227.2  | 2267.0  | 2285.5  | 2439.3  | 2672.6  |
| 12.5° | 2375.7 | 2383.6 | 2386.3 | 2357.1 | 2335.9 | 2301.4 | 2282.9  | 2298.8  | 2312.1  | 2465.8  | 2754.8  |
| 15°   | 2548.0 | 2553.3 | 2534.8 | 2516.2 | 2463.2 | 2420.8 | 2375.7  | 2362.4  | 2367.7  | 2521.5  | 2847.6  |
| 17.5° | 2749.5 | 2741.6 | 2741.6 | 2696.5 | 2627.6 | 2561.3 | 2487.0  | 2476.4  | 2476.4  | 2611.7  | 2980.2  |
| 20°   | 2969.6 | 2977.6 | 2953.7 | 2892.7 | 2823.8 | 2720.4 | 2646.1  | 2598.4  | 2603.7  | 2715.1  | 3142.0  |
| 22.5° | 3287.8 | 3301.0 | 3237.4 | 3149.9 | 3043.8 | 2924.5 | 2818.5  | 2741.6  | 2744.2  | 2850.3  | 3309.0  |
| 25°   | 3629.8 | 3635.1 | 3595.3 | 3478.7 | 3335.5 | 3165.8 | 3025.3  | 2927.2  | 2924.5  | 3001.4  | 3523.8  |
| 27.5° | 3979.8 | 4003.7 | 3924.1 | 3812.8 | 3680.2 | 3468.1 | 3282.5  | 3149.9  | 3128.7  | 3232.1  | 3791.6  |
| 30°   | 4340.4 | 4369.6 | 4292.7 | 4184.0 | 4019.6 | 3839.3 | 3619.2  | 3465.4  | 3452.2  | 3590.0  | 4149.5  |
| 32.5° | 4703.6 | 4711.6 | 4650.6 | 4560.5 | 4412.0 | 4242.3 | 4064.7  | 3895.0  | 3881.7  | 4107.1  | 4613.5  |
| 35°   | 5000.6 | 5024.5 | 4982.0 | 4960.8 | 4852.1 | 4695.7 | 4523.4  | 4425.2  | 4459.7  | 4748.7  | 5215.4  |
| 37.5° | 5358.6 | 5382.4 | 5334.7 | 5329.4 | 5294.9 | 5159.7 | 5040.4  | 5048.3  | 5082.8  | 5475.2  | 5849.1  |
| 40°   | 5875.6 | 5902.1 | 5780.1 | 5727.1 | 5727.1 | 5594.5 | 5554.8  | 5743.0  | 5788.1  | 6191.1  | 6509.3  |
| 42.5° | 6313.1 | 6355.5 | 6283.9 | 6249.4 | 6146.0 | 6053.2 | 6101.0  | 6366.1  | 6443.0  | 6875.2  | 7084.6  |
| 45°   | 6525.2 | 6557.0 | 6641.8 | 6742.6 | 6641.8 | 6480.1 | 6660.4  | 6960.0  | 7068.7  | 7506.2  | 7660.0  |
| 47.5° | 6639.2 | 6668.4 | 6766.5 | 7036.9 | 7105.8 | 6970.6 | 7225.2  | 7599.0  | 7673.3  | 8132.0  | 8208.8  |
| 50°   | 6655.1 | 6747.9 | 6875.2 | 7145.6 | 7461.1 | 7479.7 | 7792.6  | 8248.6  | 8336.1  | 8747.1  | 8691.4  |
| 52.5° | 6525.2 | 6562.3 | 6824.8 | 7280.8 | 7630.8 | 7949.0 | 8410.4  | 8871.7  | 8935.3  | 9325.1  | 9118.3  |
| 55°   | 6313.1 | 6366.1 | 6628.6 | 7249.0 | 7795.2 | 8394.4 | 9038.7  | 9484.2  | 9555.8  | 9887.2  | 9513.4  |
| 57.5° | 6122.2 | 6148.7 | 6429.7 | 7156.2 | 7959.6 | 8839.9 | 9598.2  | 10123.2 | 10170.9 | 10380.4 | 9805.0  |
| 60°   | 5910.1 | 5939.2 | 6220.3 | 6957.4 | 8081.6 | 9176.6 | 10181.5 | 10767.5 | 10809.9 | 10900.1 | 10144.4 |
| 62.5° | 5361.2 | 5438.1 | 5790.7 | 6628.6 | 8049.8 | 9561.1 | 10804.6 | 11403.8 | 11456.9 | 11358.8 | 10412.2 |
| 65°   | 4353.7 | 4462.4 | 4894.6 | 5883.5 | 7752.8 | 9810.3 | 11313.7 | 11989.8 | 12079.9 | 11703.4 | 10483.8 |
| 67.5° | 3380.6 | 3457.5 | 3804.8 | 4669.2 | 6710.8 | 9685.7 | 11642.5 | 12392.8 | 12419.3 | 11647.8 | 10086.1 |
| 68°   | 3205.6 | 3282.5 | 3613.9 | 4414.6 | 6421.8 | 9537.2 | 11634.5 | 12403.4 | 12461.8 | 11586.8 | 9932.3  |
| 70°   | 2452.6 | 2540.1 | 2855.6 | 3497.2 | 5175.6 | 8593.3 | 11149.3 | 12148.9 | 12140.9 | 10849.7 | 8977.8  |
| 72.5° | 1532.5 | 1582.9 | 1800.3 | 2206.0 | 3423.0 | 6538.4 | 9463.0  | 10714.5 | 10735.7 | 8845.2  | 6885.8  |
| 75°   | 973.1  | 973.1  | 962.5  | 1068.5 | 1755.3 | 3725.3 | 7034.3  | 8248.6  | 8264.5  | 6193.8  | 4340.4  |
| 77.5° | 845.8  | 821.9  | 707.9  | 599.2  | 700.0  | 1447.7 | 4162.8  | 5326.7  | 5239.2  | 3335.5  | 2060.2  |
| 80°   | 713.2  | 673.5  | 580.7  | 482.6  | 450.7  | 453.4  | 1598.8  | 2704.5  | 2587.8  | 1201.1  | 684.1   |
| 82.5° | 514.4  | 479.9  | 437.5  | 379.2  | 347.3  | 270.4  | 334.1   | 782.2   | 763.6   | 347.3   | 222.7   |
| 85°   | 278.4  | 251.9  | 246.6  | 249.2  | 209.5  | 167.0  | 140.5   | 172.3   | 172.3   | 151.1   | 127.3   |
| 87.5° | 98.1   | 71.6   | 84.8   | 95.5   | 82.2   | 68.9   | 55.7    | 66.3    | 68.9    | 66.3    | 61.0    |
| 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°    | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 | 2627.6 |
| 2.5°  | 2638.2 | 2664.7 | 2728.3 | 2784.0 | 2823.8 | 2858.2 | 2876.8 | 2884.8 | 2903.3 | 2906.0 | 2900.7 |
| 5°    | 2659.4 | 2728.3 | 2823.8 | 2906.0 | 2951.0 | 2969.6 | 2974.9 | 2977.6 | 2969.6 | 2974.9 | 2969.6 |
| 7.5°  | 2715.1 | 2802.6 | 2937.8 | 3009.4 | 3017.3 | 2988.2 | 2990.8 | 2980.2 | 2990.8 | 3001.4 | 3001.4 |
| 10°   | 2799.9 | 2911.3 | 3038.5 | 3065.1 | 3030.6 | 3014.7 | 3046.5 | 3110.1 | 3131.3 | 3160.5 | 3160.5 |
| 12.5° | 2911.3 | 3043.8 | 3134.0 | 3110.1 | 3078.3 | 3131.3 | 3224.1 | 3287.8 | 3309.0 | 3319.6 | 3311.6 |
| 15°   | 3038.5 | 3181.7 | 3226.8 | 3147.3 | 3205.6 | 3319.6 | 3351.4 | 3314.3 | 3261.3 | 3237.4 | 3250.7 |
| 17.5° | 3200.3 | 3319.6 | 3293.1 | 3240.1 | 3372.6 | 3388.5 | 3285.1 | 3165.8 | 3081.0 | 3049.2 | 3070.4 |
| 20°   | 3370.0 | 3473.4 | 3351.4 | 3375.3 | 3457.5 | 3287.8 | 3091.6 | 2937.8 | 2863.6 | 2850.3 | 2871.5 |
| 22.5° | 3550.3 | 3616.6 | 3409.7 | 3531.7 | 3409.7 | 3065.1 | 2829.1 | 2749.5 | 2731.0 | 2752.2 | 2770.8 |
| 25°   | 3754.4 | 3746.5 | 3510.5 | 3579.4 | 3232.1 | 2792.0 | 2651.4 | 2646.1 | 2646.1 | 2659.4 | 2685.9 |
| 27.5° | 3985.1 | 3860.5 | 3611.3 | 3515.8 | 2924.5 | 2566.6 | 2540.1 | 2542.7 | 2534.8 | 2537.4 | 2550.7 |
| 30°   | 4252.9 | 4014.3 | 3722.6 | 3306.3 | 2579.8 | 2396.9 | 2386.3 | 2378.3 | 2359.8 | 2354.5 | 2359.8 |
| 32.5° | 4589.6 | 4176.0 | 3836.6 | 2961.7 | 2277.6 | 2221.9 | 2216.6 | 2174.2 | 2129.1 | 2123.8 | 2142.4 |
| 35°   | 5016.5 | 4470.3 | 3895.0 | 2529.5 | 2028.3 | 2025.7 | 2007.1 | 1940.9 | 1882.5 | 1882.5 | 1869.3 |
| 37.5° | 5504.4 | 4849.5 | 3918.8 | 2107.9 | 1821.5 | 1834.8 | 1781.8 | 1696.9 | 1651.8 | 1625.3 | 1633.3 |
| 40°   | 6002.9 | 5281.7 | 3916.2 | 1739.3 | 1641.2 | 1643.9 | 1604.1 | 1500.7 | 1389.4 | 1323.1 | 1339.0 |
| 42.5° | 6482.8 | 5674.1 | 3847.2 | 1543.1 | 1495.4 | 1487.5 | 1455.6 | 1315.1 | 1222.3 | 1169.3 | 1171.9 |
| 45°   | 6867.2 | 6079.7 | 3741.2 | 1426.5 | 1362.8 | 1376.1 | 1304.5 | 1219.7 | 1134.8 | 1087.1 | 1084.4 |
| 47.5° | 7251.7 | 6387.3 | 3571.5 | 1354.9 | 1264.7 | 1240.9 | 1211.7 | 1153.4 | 1089.7 | 1036.7 | 1039.4 |
| 50°   | 7601.7 | 6649.8 | 3412.4 | 1307.2 | 1174.6 | 1113.6 | 1118.9 | 1084.4 | 1028.8 | 981.0  | 978.4  |
| 52.5° | 7848.3 | 6822.1 | 3324.9 | 1280.6 | 1065.9 | 999.6  | 1018.2 | 999.6  | 946.6  | 912.1  | 909.4  |
| 55°   | 8094.8 | 6954.7 | 3354.1 | 1246.2 | 946.6  | 893.5  | 925.4  | 920.0  | 890.9  | 880.3  | 882.9  |
| 57.5° | 8293.7 | 7055.5 | 3457.5 | 1182.5 | 832.6  | 800.7  | 853.8  | 837.9  | 816.6  | 819.3  | 819.3  |
| 60°   | 8487.2 | 7185.4 | 3579.4 | 1036.7 | 734.4  | 737.1  | 787.5  | 758.3  | 745.1  | 768.9  | 771.6  |
| 62.5° | 8688.8 | 7325.9 | 3478.7 | 824.6  | 649.6  | 668.2  | 726.5  | 702.6  | 707.9  | 742.4  | 753.0  |
| 65°   | 8664.9 | 7312.7 | 2834.4 | 676.1  | 575.4  | 612.5  | 700.0  | 692.0  | 694.7  | 707.9  | 713.2  |
| 67.5° | 8177.0 | 6846.0 | 1948.8 | 575.4  | 522.3  | 567.4  | 678.8  | 647.0  | 649.6  | 641.6  | 644.3  |
| 68°   | 8012.6 | 6681.6 | 1718.1 | 559.5  | 511.7  | 556.8  | 668.2  | 639.0  | 641.6  | 633.7  | 631.0  |
| 70°   | 7116.5 | 5721.8 | 1087.1 | 493.2  | 474.6  | 527.6  | 615.1  | 604.5  | 601.9  | 596.6  | 596.6  |
| 72.5° | 5424.8 | 4223.7 | 572.7  | 426.9  | 432.2  | 482.6  | 548.8  | 570.1  | 556.8  | 559.5  | 575.4  |
| 75°   | 3592.7 | 2540.1 | 397.7  | 365.9  | 379.2  | 413.6  | 487.9  | 530.3  | 517.0  | 525.0  | 517.0  |
| 77.5° | 1901.1 | 1368.1 | 318.2  | 310.2  | 310.2  | 334.1  | 403.0  | 469.3  | 469.3  | 464.0  | 456.0  |
| 80°   | 623.1  | 482.6  | 254.5  | 243.9  | 249.2  | 262.5  | 323.5  | 384.5  | 392.4  | 381.8  | 376.5  |
| 82.5° | 209.5  | 222.7  | 190.9  | 177.6  | 182.9  | 193.6  | 243.9  | 294.3  | 297.0  | 275.7  | 270.4  |
| 85°   | 129.9  | 148.5  | 119.3  | 116.7  | 116.7  | 119.3  | 148.5  | 161.7  | 148.5  | 132.6  | 137.9  |
| 87.5° | 61.0   | 74.2   | 55.7   | 47.7   | 39.8   | 34.5   | 26.5   | 10.6   | 10.6   | 5.3    | 5.3    |
| 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)