

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: P318309

Luminaire Tested: **GAN-SA5A-727-U-T3**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P318309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19482 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

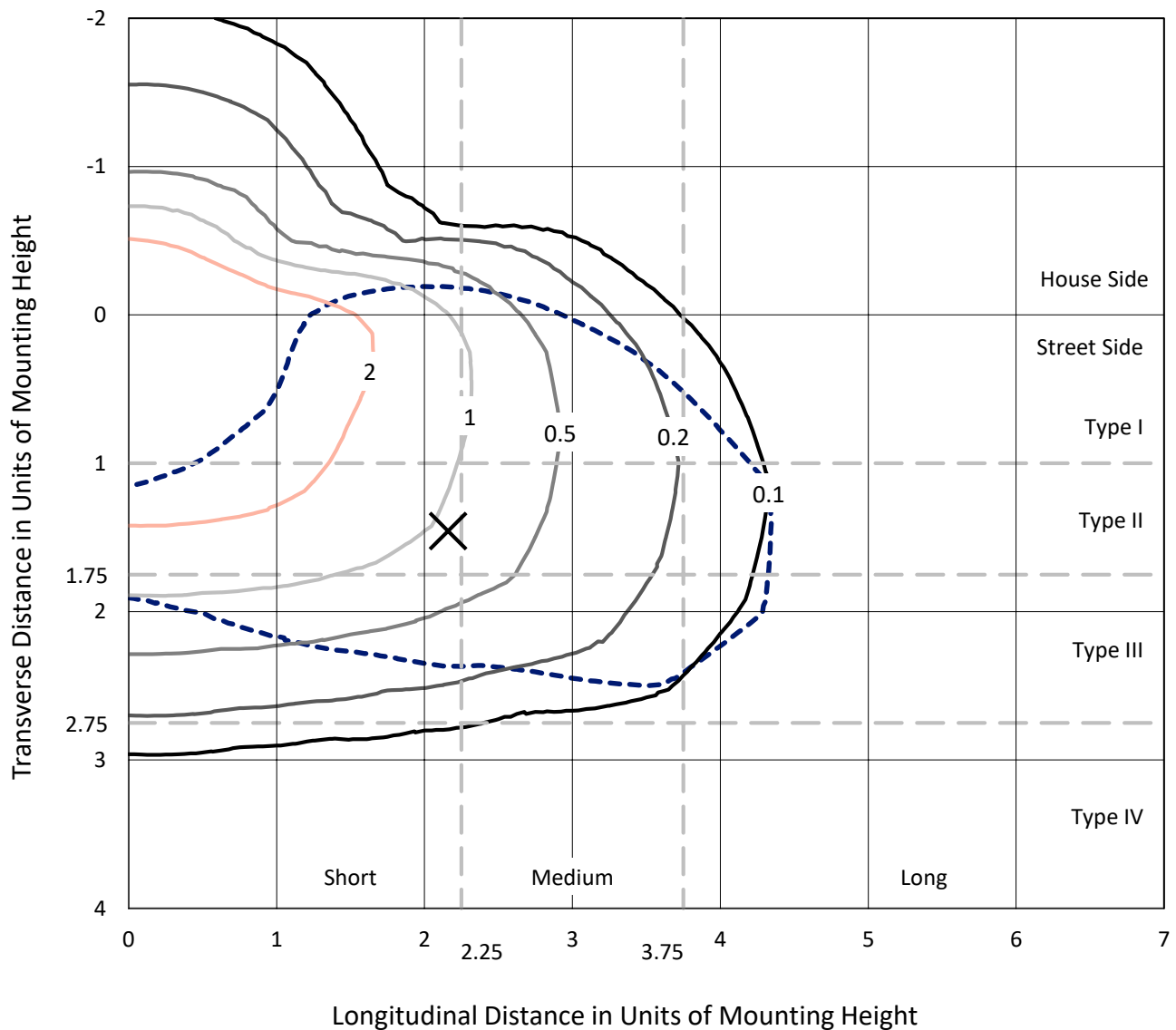
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

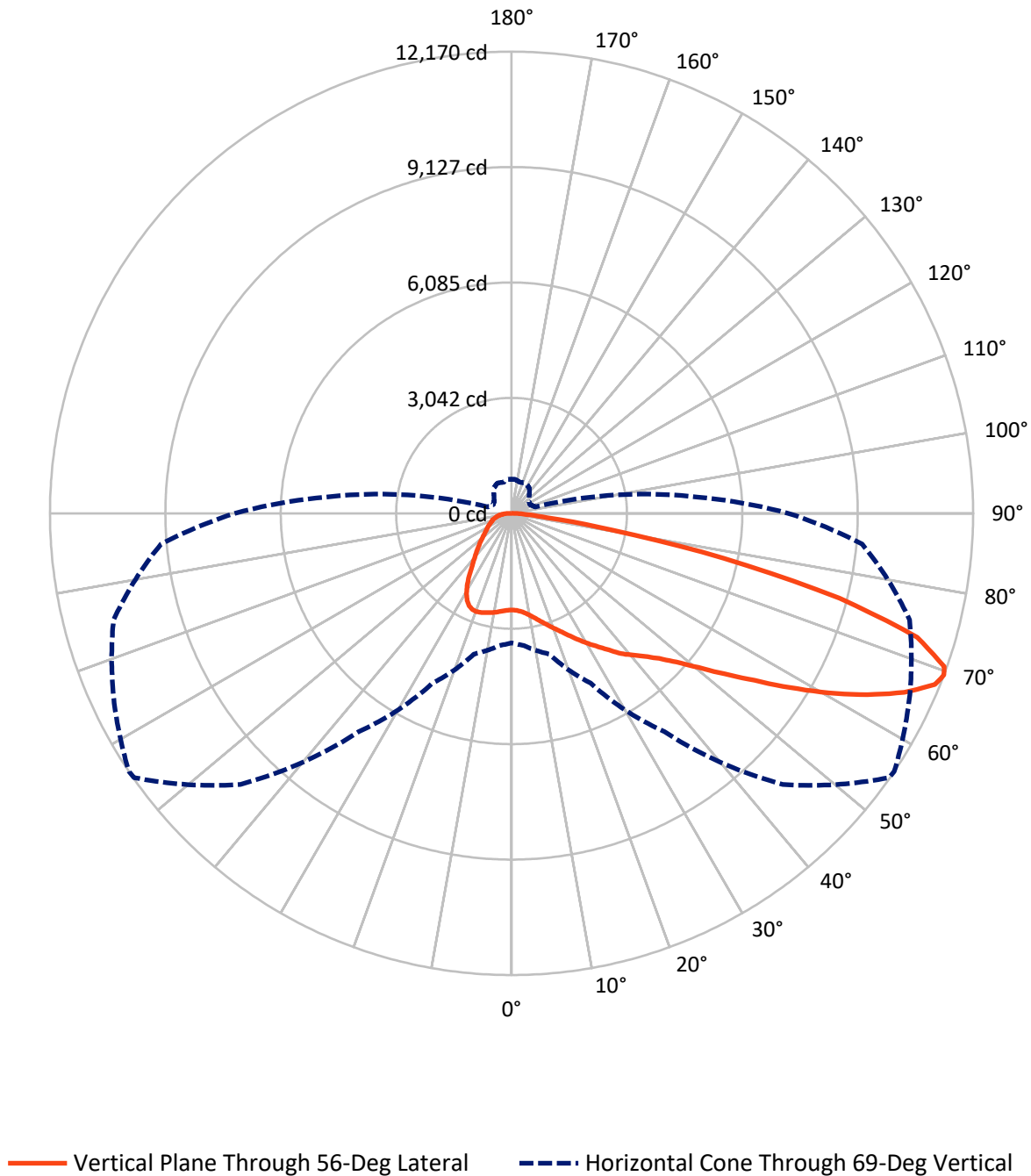
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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    | 4338.6   | 0.0    | 4338.6  |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 15143.4  | 0.0    | 15143.4 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 19482.0  | 0.0    | 19482.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 250.2   | 1.3       |
| 10°-20°   | 804.4   | 4.1       |
| 20°-30°   | 1404.2  | 7.2       |
| 30°-40°   | 2017.0  | 10.4      |
| 40°-50°   | 2791.5  | 14.3      |
| 50°-60°   | 4089.9  | 21.0      |
| 60°-70°   | 4986.3  | 25.6      |
| 70°-80°   | 2756.8  | 14.2      |
| 80°-90°   | 381.8   | 2.0       |
| 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°    | 19482.0 | 100.0     |
| 0°-180°   | 19482.0 | 100.0     |

**Coefficient of Utilization**



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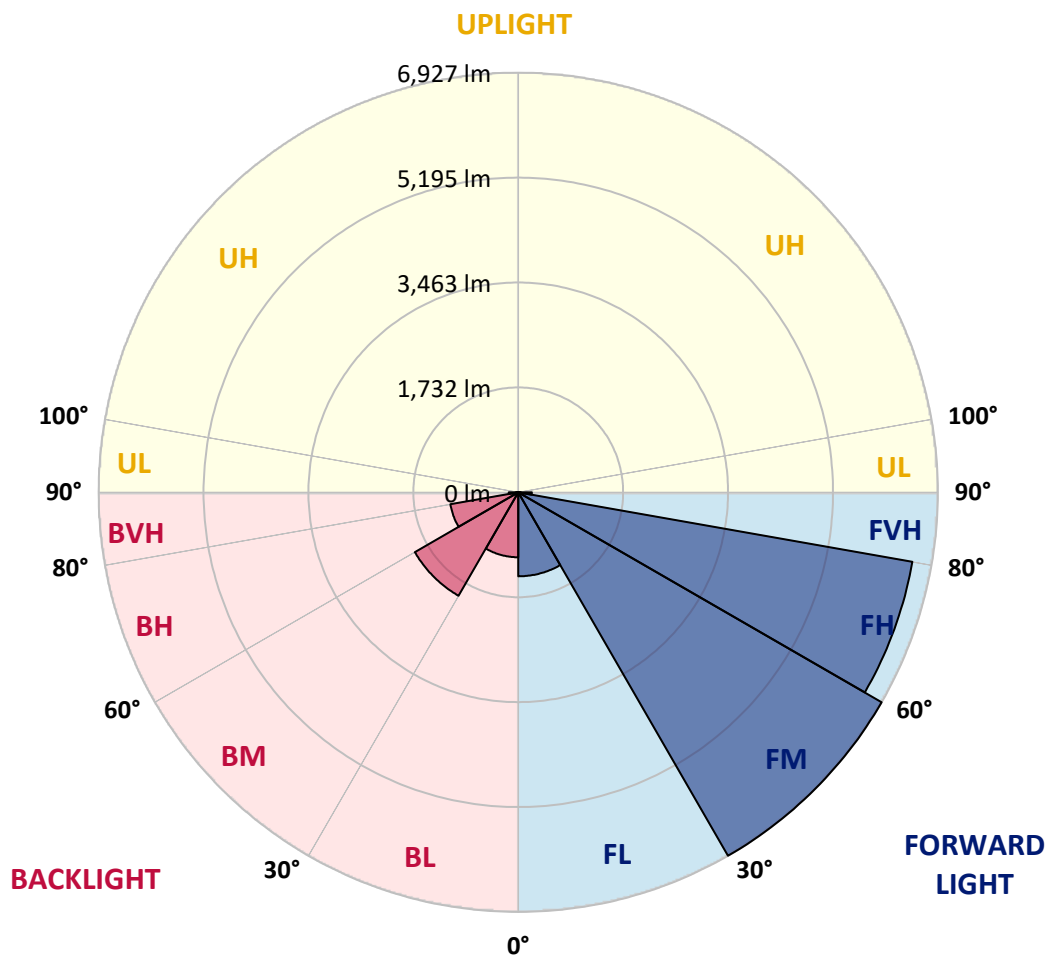
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1386.5 | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 6926.6 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 6605.4 | 33.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 224.9  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1072.2 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1971.8 | 10.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1137.7 | 5.8       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 156.9  | 0.8       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0  | 2547.0  | 2547.0  | 2547.0  | 2547.0  | 2547.0  |
| 2.5°  | 2563.1 | 2565.8 | 2563.8 | 2569.1 | 2563.1 | 2567.1  | 2563.8  | 2563.8  | 2561.7  | 2555.7  | 2549.0  |
| 5°    | 2603.4 | 2608.7 | 2605.4 | 2610.7 | 2603.4 | 2604.7  | 2598.7  | 2598.7  | 2592.6  | 2579.9  | 2566.4  |
| 7.5°  | 2666.4 | 2672.5 | 2669.8 | 2675.2 | 2665.1 | 2665.1  | 2657.0  | 2656.4  | 2644.3  | 2623.5  | 2608.1  |
| 10°   | 2741.6 | 2749.7 | 2747.0 | 2755.0 | 2747.0 | 2749.7  | 2741.6  | 2741.6  | 2725.5  | 2696.0  | 2676.5  |
| 12.5° | 2851.0 | 2861.1 | 2853.7 | 2853.0 | 2849.7 | 2855.0  | 2848.3  | 2847.0  | 2832.2  | 2791.9  | 2765.1  |
| 15°   | 2997.3 | 3008.1 | 2992.6 | 2991.3 | 2972.5 | 2970.5  | 2970.5  | 2968.5  | 2959.1  | 2910.7  | 2866.4  |
| 17.5° | 3165.8 | 3169.1 | 3155.7 | 3134.2 | 3110.1 | 3094.6  | 3092.6  | 3098.0  | 3098.0  | 3041.6  | 2971.1  |
| 20°   | 3330.9 | 3336.9 | 3326.2 | 3302.0 | 3271.1 | 3248.3  | 3232.2  | 3243.0  | 3242.3  | 3175.2  | 3075.2  |
| 22.5° | 3510.7 | 3524.8 | 3508.7 | 3477.9 | 3441.6 | 3416.1  | 3387.9  | 3397.3  | 3398.0  | 3315.4  | 3177.2  |
| 25°   | 3743.6 | 3730.9 | 3720.8 | 3677.2 | 3625.5 | 3599.3  | 3573.2  | 3582.5  | 3579.9  | 3466.4  | 3282.5  |
| 27.5° | 3949.7 | 3952.3 | 3938.9 | 3892.6 | 3832.9 | 3775.2  | 3773.8  | 3779.9  | 3769.8  | 3623.5  | 3381.9  |
| 30°   | 4189.3 | 4190.6 | 4171.8 | 4130.2 | 4065.1 | 3990.6  | 3973.2  | 3983.2  | 3961.7  | 3772.5  | 3486.6  |
| 32.5° | 4427.5 | 4434.2 | 4413.4 | 4363.1 | 4310.7 | 4220.1  | 4185.2  | 4191.9  | 4138.3  | 3924.8  | 3594.6  |
| 35°   | 4636.2 | 4645.6 | 4638.9 | 4605.4 | 4548.3 | 4470.5  | 4428.9  | 4424.8  | 4358.4  | 4111.4  | 3737.6  |
| 37.5° | 4849.0 | 4857.7 | 4850.3 | 4822.1 | 4799.3 | 4716.8  | 4694.6  | 4694.6  | 4579.2  | 4302.0  | 3919.5  |
| 40°   | 5067.8 | 5081.2 | 5072.5 | 5033.6 | 5014.1 | 4976.5  | 4923.5  | 4910.7  | 4785.9  | 4530.9  | 4216.1  |
| 42.5° | 5271.1 | 5288.6 | 5323.5 | 5300.7 | 5261.1 | 5266.4  | 5159.7  | 5153.0  | 5061.7  | 4869.1  | 4588.6  |
| 45°   | 5559.7 | 5585.2 | 5644.3 | 5626.8 | 5618.8 | 5589.3  | 5462.4  | 5456.4  | 5421.5  | 5324.2  | 5051.0  |
| 47.5° | 5874.5 | 5909.4 | 6016.1 | 6019.5 | 6106.0 | 6050.3  | 5877.8  | 5857.0  | 5865.1  | 5869.1  | 5615.4  |
| 50°   | 6164.4 | 6202.7 | 6377.8 | 6460.4 | 6664.4 | 6676.5  | 6400.7  | 6381.9  | 6413.4  | 6506.0  | 6273.2  |
| 52.5° | 6396.0 | 6444.3 | 6663.1 | 6918.1 | 7267.8 | 7367.1  | 7044.3  | 7030.2  | 7053.7  | 7213.4  | 7016.8  |
| 55°   | 6565.8 | 6618.1 | 6856.4 | 7320.8 | 7879.2 | 8054.4  | 7785.2  | 7771.8  | 7786.6  | 7989.9  | 7825.5  |
| 57.5° | 6605.4 | 6618.1 | 6963.8 | 7591.9 | 8395.3 | 8816.1  | 8691.9  | 8665.1  | 8592.6  | 8769.8  | 8718.1  |
| 60°   | 6419.5 | 6470.5 | 6875.2 | 7687.2 | 8794.6 | 9567.1  | 9639.6  | 9606.0  | 9402.7  | 9547.6  | 9506.0  |
| 62.5° | 6042.3 | 6133.6 | 6544.3 | 7542.3 | 8951.0 | 10180.5 | 10569.1 | 10528.9 | 10178.5 | 10272.5 | 10072.5 |
| 65°   | 5426.2 | 5465.1 | 5896.6 | 7042.3 | 8752.3 | 10573.1 | 11398.0 | 11377.8 | 10936.9 | 10789.9 | 10177.2 |
| 67.5° | 4324.2 | 4397.3 | 4763.8 | 5997.3 | 7939.6 | 10526.8 | 12038.9 | 12036.9 | 11432.2 | 10981.9 | 9806.0  |
| 69°   | 3416.1 | 3491.9 | 3840.9 | 4940.3 | 7025.5 | 10103.3 | 12146.3 | 12169.8 | 11571.8 | 10865.1 | 9275.8  |
| 70°   | 2723.5 | 2811.4 | 3051.0 | 4161.1 | 6214.1 | 9545.0  | 12057.0 | 12099.3 | 11545.0 | 10672.5 | 8786.6  |
| 72.5° | 1159.1 | 1230.2 | 1400.7 | 2145.0 | 3787.2 | 7127.5  | 11024.2 | 11183.9 | 10922.8 | 9767.8  | 7261.7  |
| 75°   | 506.0  | 528.2  | 605.4  | 874.5  | 1681.2 | 3879.2  | 8636.2  | 8931.5  | 9339.6  | 8256.4  | 5409.4  |
| 77.5° | 370.5  | 379.9  | 422.1  | 513.4  | 754.4  | 1465.1  | 5553.7  | 5725.5  | 6735.6  | 6008.0  | 3318.1  |
| 80°   | 286.6  | 293.3  | 326.2  | 377.2  | 492.6  | 592.6   | 2532.9  | 2680.5  | 3787.2  | 3085.9  | 1381.9  |
| 82.5° | 228.2  | 232.9  | 255.7  | 277.9  | 340.3  | 359.1   | 840.9   | 932.9   | 1398.0  | 852.3   | 365.8   |
| 85°   | 212.1  | 217.4  | 225.5  | 202.7  | 218.1  | 210.7   | 363.8   | 380.5   | 422.1   | 334.9   | 153.0   |
| 87.5° | 96.0   | 113.4  | 223.5  | 157.7  | 116.1  | 92.6    | 149.0   | 155.7   | 175.2   | 175.8   | 67.8    |
| 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°    | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 | 2547.0 |
| 2.5°  | 2553.0 | 2551.0 | 2554.4 | 2546.3 | 2556.4 | 2555.7 | 2552.3 | 2553.7 | 2560.4 | 2559.7 | 2560.4 |
| 5°    | 2568.5 | 2567.1 | 2571.1 | 2565.1 | 2577.2 | 2581.2 | 2581.9 | 2587.9 | 2595.3 | 2597.3 | 2597.3 |
| 7.5°  | 2607.4 | 2607.4 | 2609.4 | 2601.3 | 2609.4 | 2608.7 | 2605.4 | 2611.4 | 2618.8 | 2619.5 | 2618.8 |
| 10°   | 2674.5 | 2675.2 | 2671.8 | 2651.0 | 2644.3 | 2626.2 | 2609.4 | 2610.1 | 2619.5 | 2626.8 | 2628.9 |
| 12.5° | 2759.1 | 2756.4 | 2741.6 | 2703.4 | 2675.2 | 2638.3 | 2620.8 | 2620.1 | 2629.5 | 2635.6 | 2637.6 |
| 15°   | 2855.7 | 2848.3 | 2810.1 | 2747.6 | 2698.0 | 2661.7 | 2633.6 | 2626.8 | 2621.5 | 2614.8 | 2615.4 |
| 17.5° | 2947.0 | 2930.2 | 2866.4 | 2779.9 | 2727.5 | 2679.2 | 2624.8 | 2581.2 | 2551.0 | 2533.6 | 2528.2 |
| 20°   | 3039.6 | 3006.7 | 2914.8 | 2810.1 | 2743.6 | 2655.7 | 2551.0 | 2462.4 | 2407.4 | 2381.9 | 2377.2 |
| 22.5° | 3124.2 | 3071.1 | 2959.7 | 2841.6 | 2730.9 | 2576.5 | 2412.1 | 2283.2 | 2206.7 | 2172.5 | 2175.2 |
| 25°   | 3206.7 | 3132.9 | 3006.7 | 2863.8 | 2666.4 | 2436.9 | 2218.8 | 2060.4 | 1971.8 | 1933.6 | 1932.2 |
| 27.5° | 3279.2 | 3195.3 | 3057.7 | 2845.6 | 2546.3 | 2238.3 | 1989.9 | 1835.6 | 1761.7 | 1728.9 | 1723.5 |
| 30°   | 3362.4 | 3273.8 | 3125.5 | 2776.5 | 2370.5 | 2008.7 | 1766.4 | 1657.7 | 1605.4 | 1572.5 | 1566.4 |
| 32.5° | 3463.8 | 3380.5 | 3181.2 | 2651.0 | 2145.6 | 1769.1 | 1591.9 | 1516.1 | 1468.5 | 1431.5 | 1424.8 |
| 35°   | 3611.4 | 3521.5 | 3195.3 | 2471.1 | 1898.7 | 1579.9 | 1463.8 | 1385.9 | 1321.5 | 1273.8 | 1269.1 |
| 37.5° | 3796.6 | 3698.0 | 3163.1 | 2238.3 | 1659.1 | 1457.0 | 1357.0 | 1261.1 | 1177.2 | 1110.1 | 1099.3 |
| 40°   | 4063.8 | 3914.8 | 3073.8 | 1969.8 | 1482.5 | 1362.4 | 1253.0 | 1143.6 | 1039.6 | 961.1  | 945.6  |
| 42.5° | 4384.6 | 4169.1 | 2936.9 | 1702.7 | 1353.0 | 1266.4 | 1149.7 | 1014.1 | 914.8  | 859.1  | 851.0  |
| 45°   | 4792.6 | 4433.6 | 2747.0 | 1469.1 | 1225.5 | 1170.5 | 1038.3 | 913.4  | 851.7  | 810.7  | 804.0  |
| 47.5° | 5258.4 | 4730.2 | 2547.6 | 1279.2 | 1117.4 | 1080.5 | 949.0  | 868.5  | 819.5  | 787.2  | 781.2  |
| 50°   | 5830.9 | 5065.1 | 2336.2 | 1123.5 | 1008.7 | 972.5  | 906.7  | 843.6  | 804.7  | 779.9  | 773.8  |
| 52.5° | 6476.5 | 5442.9 | 2183.9 | 1000.7 | 918.8  | 892.6  | 884.6  | 830.2  | 798.7  | 779.9  | 773.8  |
| 55°   | 7171.8 | 5827.5 | 2019.5 | 897.3  | 840.9  | 848.3  | 869.8  | 831.5  | 810.1  | 787.2  | 778.5  |
| 57.5° | 7867.8 | 6224.8 | 1836.2 | 810.1  | 779.2  | 815.4  | 859.7  | 834.2  | 816.1  | 794.0  | 785.9  |
| 60°   | 8418.1 | 6476.5 | 1552.3 | 736.9  | 730.2  | 779.2  | 835.6  | 814.1  | 790.6  | 791.3  | 789.9  |
| 62.5° | 8675.2 | 6463.1 | 1238.9 | 671.8  | 681.2  | 730.2  | 796.6  | 782.5  | 763.1  | 789.3  | 791.3  |
| 65°   | 8530.9 | 6140.9 | 964.4  | 612.8  | 628.9  | 679.2  | 756.4  | 767.1  | 773.8  | 824.2  | 830.9  |
| 67.5° | 7925.5 | 5514.1 | 747.0  | 561.1  | 581.2  | 644.3  | 760.4  | 835.6  | 844.3  | 897.3  | 896.6  |
| 69°   | 7299.3 | 4926.2 | 649.0  | 534.2  | 557.7  | 653.0  | 812.8  | 879.2  | 846.3  | 902.7  | 894.6  |
| 70°   | 6774.5 | 4461.1 | 596.6  | 516.1  | 547.0  | 668.5  | 847.7  | 878.5  | 836.2  | 884.6  | 871.1  |
| 72.5° | 5217.4 | 3209.4 | 506.0  | 482.6  | 510.7  | 639.6  | 857.7  | 859.1  | 812.8  | 822.1  | 799.3  |
| 75°   | 3578.5 | 2028.2 | 441.6  | 436.9  | 455.7  | 576.5  | 825.5  | 820.8  | 751.7  | 738.3  | 719.5  |
| 77.5° | 1973.2 | 1030.2 | 375.2  | 393.3  | 406.0  | 510.7  | 750.3  | 743.6  | 686.6  | 658.4  | 651.7  |
| 80°   | 761.1  | 451.0  | 316.8  | 349.7  | 357.7  | 442.3  | 657.7  | 651.7  | 604.0  | 567.8  | 557.7  |
| 82.5° | 287.2  | 236.2  | 261.7  | 302.7  | 300.0  | 365.1  | 557.0  | 553.7  | 507.4  | 454.4  | 438.3  |
| 85°   | 132.9  | 141.6  | 207.4  | 249.7  | 230.2  | 270.5  | 445.6  | 451.7  | 395.3  | 332.2  | 332.2  |
| 87.5° | 56.4   | 79.2   | 147.0  | 188.6  | 155.0  | 182.6  | 326.8  | 312.1  | 286.6  | 198.7  | 186.6  |
| 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)