

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: P654402

Luminaire Tested: **GLAN-SA5B-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23982.8 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

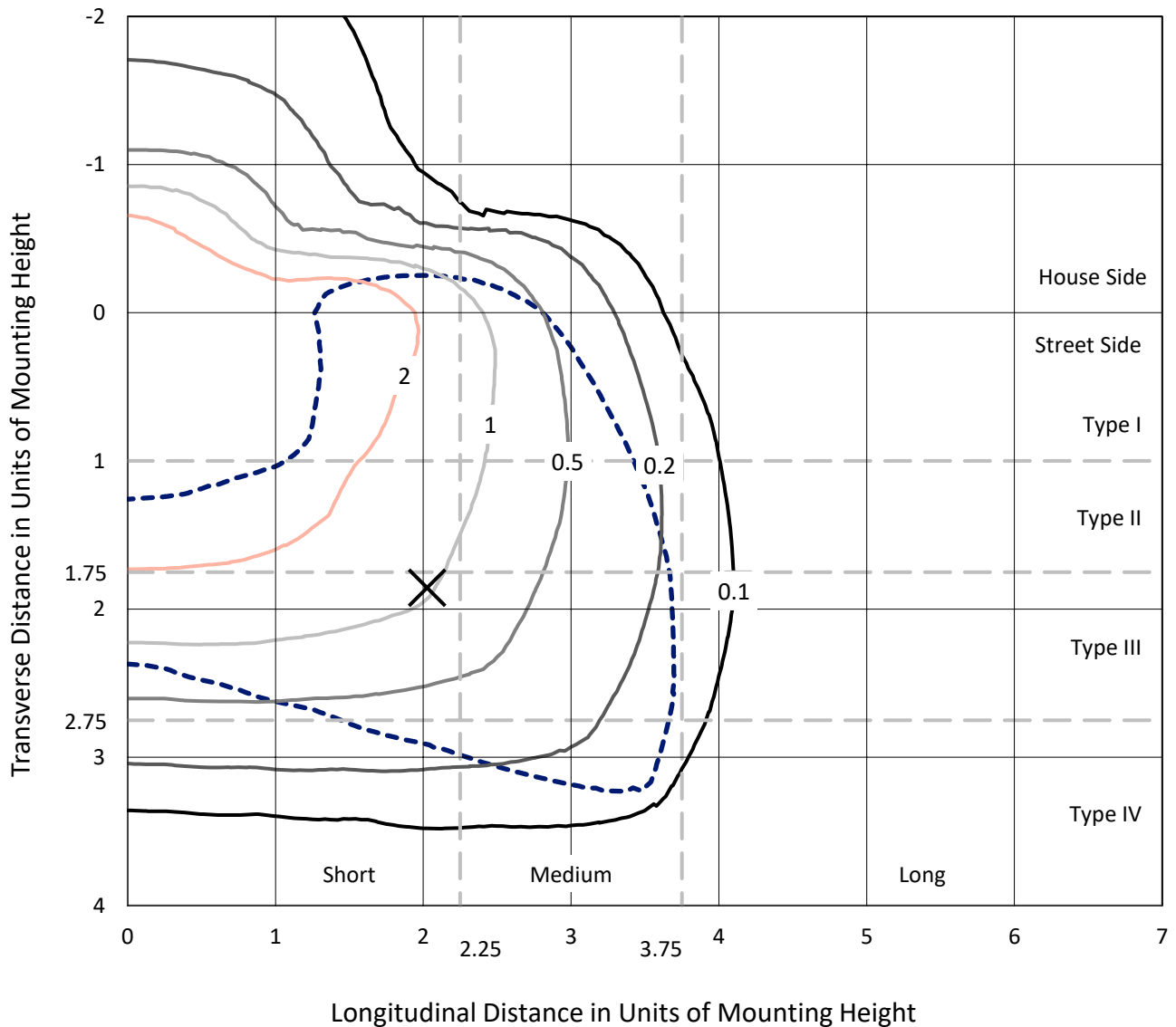
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

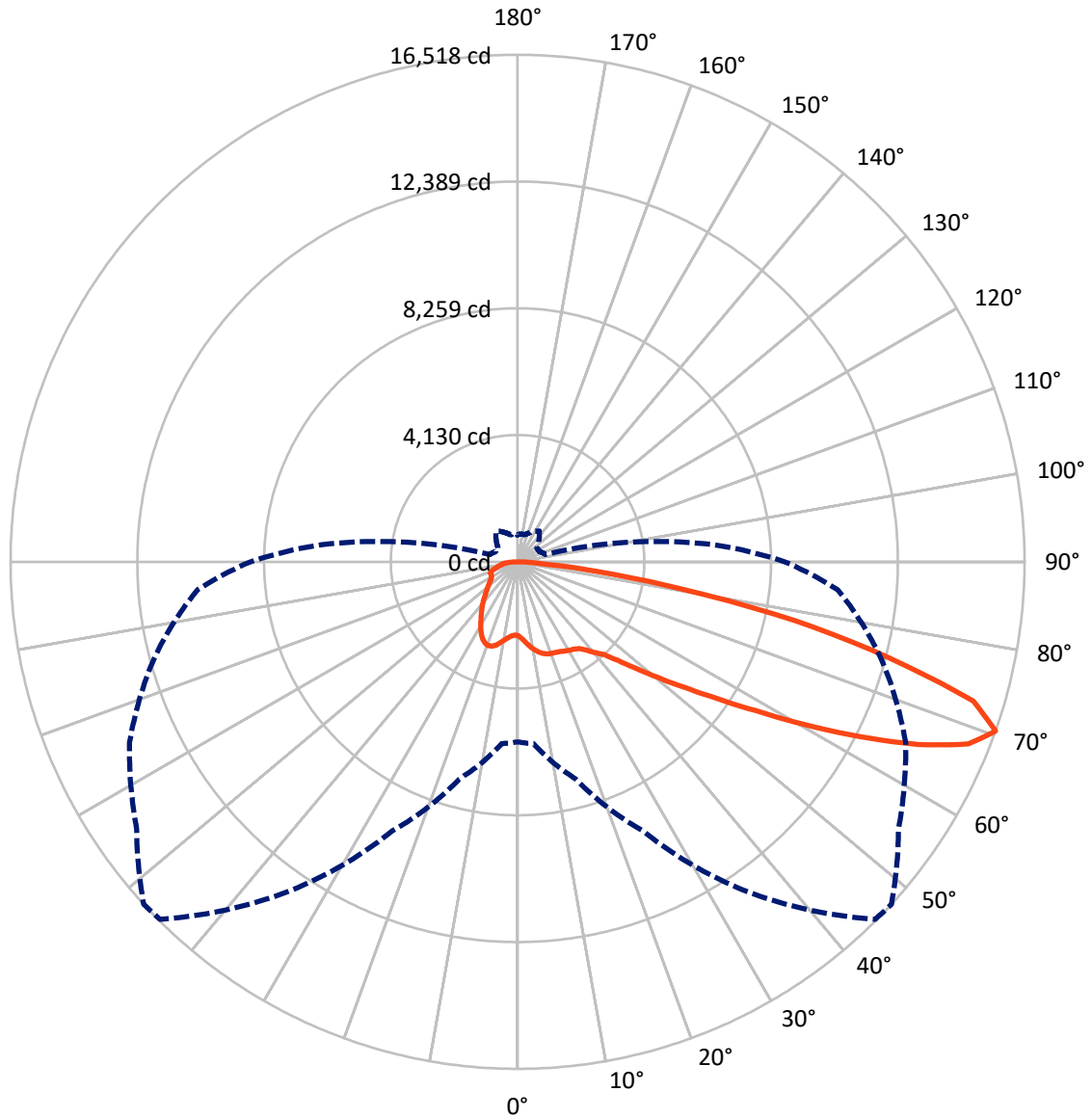
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5430.2   | 0.0    | 5430.2  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 18552.6  | 0.0    | 18552.6 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 23982.8  | 0.0    | 23982.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 248.2   | 1.0       |
| 10°-20°   | 829.7   | 3.5       |
| 20°-30°   | 1379.7  | 5.8       |
| 30°-40°   | 1955.5  | 8.2       |
| 40°-50°   | 2886.8  | 12.0      |
| 50°-60°   | 5000.0  | 20.8      |
| 60°-70°   | 7062.7  | 29.4      |
| 70°-80°   | 4060.0  | 16.9      |
| 80°-90°   | 560.2   | 2.3       |
| 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°    | 23982.8 | 100.0     |
| 0°-180°   | 23982.8 | 100.0     |

**Coefficient of Utilization**

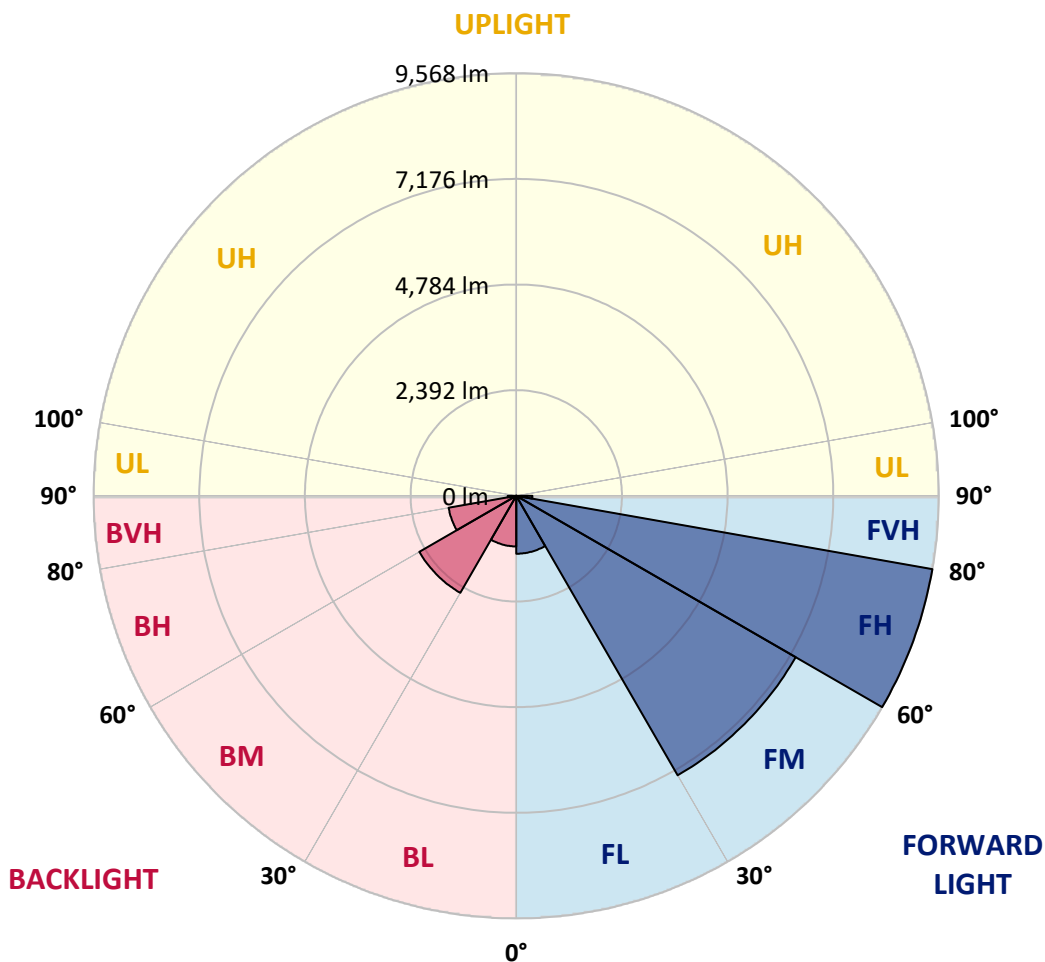


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1311.5 | 5.5       |                         |      |          |
| FM (30°-60°)   | 7307.1 | 30.5      |                         |      |          |
| FH (60°-80°)   | 9568.1 | 39.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 365.9  | 1.5       |                         |      | G3/500   |
| BL (0°-30°)    | 1146.1 | 4.8       | B3/2500                 |      |          |
| BM (30°-60°)   | 2535.3 | 10.6      | B3/5000                 |      |          |
| BH (60°-80°)   | 1554.6 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 194.3  | 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-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  | 2407.6  |
| 2.5°  | 2562.9  | 2553.9  | 2552.6  | 2533.3  | 2523.1  | 2503.8  | 2496.2  | 2478.2  | 2456.4  | 2434.5  | 2414.0  |
| 5°    | 2764.4  | 2764.4  | 2755.4  | 2728.5  | 2686.1  | 2642.4  | 2623.2  | 2588.5  | 2527.0  | 2476.9  | 2434.5  |
| 7.5°  | 2971.0  | 2973.5  | 2955.6  | 2915.8  | 2855.4  | 2784.9  | 2766.9  | 2715.6  | 2628.3  | 2555.2  | 2492.3  |
| 10°   | 3149.4  | 3149.4  | 3125.0  | 3071.1  | 2995.4  | 2918.4  | 2900.4  | 2842.7  | 2745.1  | 2654.0  | 2571.9  |
| 12.5° | 3285.4  | 3285.4  | 3253.3  | 3182.8  | 3100.6  | 3031.3  | 3010.8  | 2955.6  | 2864.4  | 2763.1  | 2659.2  |
| 15°   | 3373.9  | 3367.5  | 3331.6  | 3252.1  | 3172.5  | 3112.1  | 3098.0  | 3051.8  | 2968.4  | 2865.7  | 2749.0  |
| 17.5° | 3377.8  | 3375.3  | 3340.6  | 3273.8  | 3204.5  | 3163.5  | 3154.5  | 3123.7  | 3058.2  | 2960.7  | 2837.5  |
| 20°   | 3303.4  | 3308.5  | 3285.4  | 3237.9  | 3204.5  | 3186.5  | 3182.8  | 3172.5  | 3126.2  | 3035.2  | 2912.0  |
| 22.5° | 3223.8  | 3232.8  | 3210.9  | 3185.3  | 3182.8  | 3200.7  | 3203.3  | 3205.8  | 3176.3  | 3087.7  | 2974.9  |
| 25°   | 3204.5  | 3210.9  | 3189.2  | 3166.0  | 3180.2  | 3227.7  | 3237.9  | 3248.2  | 3225.1  | 3150.6  | 3049.3  |
| 27.5° | 3302.1  | 3297.0  | 3254.6  | 3204.5  | 3213.5  | 3277.7  | 3291.8  | 3303.4  | 3291.8  | 3227.7  | 3141.6  |
| 30°   | 3578.0  | 3561.3  | 3476.6  | 3330.4  | 3284.1  | 3329.0  | 3343.1  | 3375.3  | 3375.3  | 3327.8  | 3241.8  |
| 32.5° | 4040.0  | 4008.0  | 3852.6  | 3565.2  | 3404.8  | 3377.8  | 3391.9  | 3444.6  | 3471.5  | 3434.3  | 3340.6  |
| 35°   | 4600.9  | 4567.5  | 4345.4  | 3959.2  | 3625.5  | 3475.3  | 3471.5  | 3530.5  | 3602.4  | 3519.0  | 3397.1  |
| 37.5° | 5164.2  | 5129.6  | 4862.7  | 4428.9  | 3947.7  | 3680.6  | 3657.6  | 3678.1  | 3708.9  | 3556.2  | 3475.3  |
| 40°   | 5727.6  | 5686.6  | 5453.0  | 4953.7  | 4341.6  | 3952.8  | 3892.4  | 3800.1  | 3787.2  | 3678.1  | 3626.8  |
| 42.5° | 6285.9  | 6248.7  | 6130.6  | 5542.9  | 4813.9  | 4218.4  | 4126.0  | 3966.8  | 4015.6  | 3950.2  | 3905.3  |
| 45°   | 6849.3  | 6851.9  | 6726.1  | 6203.8  | 5383.7  | 4708.7  | 4584.1  | 4335.2  | 4450.7  | 4426.4  | 4452.0  |
| 47.5° | 7348.5  | 7342.1  | 7297.2  | 6845.4  | 6090.9  | 5340.1  | 5179.6  | 4890.9  | 5088.6  | 5178.4  | 5374.7  |
| 50°   | 7832.3  | 7828.5  | 7831.1  | 7573.1  | 6912.2  | 6090.9  | 5913.7  | 5610.8  | 6056.2  | 6368.1  | 6719.7  |
| 52.5° | 8525.4  | 8547.2  | 8391.9  | 8323.9  | 7910.6  | 6977.6  | 6782.6  | 6469.4  | 7199.6  | 7691.2  | 8377.8  |
| 55°   | 9221.0  | 9203.0  | 9081.0  | 9151.7  | 8955.3  | 8027.4  | 7823.4  | 7574.4  | 8472.7  | 9010.5  | 10042.3 |
| 57.5° | 9630.4  | 9636.8  | 9761.2  | 10106.5 | 10245.1 | 9336.4  | 9151.7  | 8959.2  | 9903.7  | 10284.8 | 11523.3 |
| 60°   | 9998.6  | 10028.2 | 10386.3 | 11038.2 | 11414.2 | 10944.5 | 10780.2 | 10592.8 | 11216.6 | 11368.0 | 12809.2 |
| 62.5° | 10114.2 | 10205.3 | 10830.3 | 11805.6 | 12553.9 | 12759.1 | 12555.1 | 12141.9 | 12466.6 | 12407.5 | 13680.6 |
| 65°   | 9537.9  | 9662.4  | 10782.8 | 12093.1 | 13571.6 | 14481.4 | 14351.8 | 13584.3 | 13531.8 | 13176.3 | 13823.1 |
| 67.5° | 8021.0  | 8145.5  | 9584.1  | 11489.9 | 13992.5 | 15972.7 | 15843.1 | 14636.8 | 14178.6 | 13248.1 | 12745.0 |
| 70°   | 5868.8  | 5947.1  | 7322.8  | 9673.9  | 13146.8 | 16473.3 | 16518.2 | 15150.1 | 13947.6 | 12271.5 | 10464.6 |
| 72.5° | 3381.7  | 3554.9  | 4518.7  | 6805.6  | 10740.4 | 15207.8 | 15519.6 | 14082.3 | 12487.1 | 10237.3 | 7316.4  |
| 75°   | 1454.1  | 1457.9  | 2089.3  | 3753.8  | 7274.1  | 12224.0 | 12525.6 | 11673.4 | 9806.1  | 7079.0  | 3906.5  |
| 77.5° | 691.7   | 704.6   | 918.9   | 1676.0  | 4004.1  | 8445.8  | 9259.4  | 8246.8  | 6271.8  | 3400.9  | 1475.9  |
| 80°   | 449.2   | 458.2   | 562.1   | 831.6   | 1963.6  | 4897.3  | 5464.6  | 4757.5  | 2766.9  | 1215.3  | 636.6   |
| 82.5° | 272.1   | 274.7   | 376.0   | 508.2   | 1080.6  | 2217.6  | 2614.2  | 2064.9  | 1180.7  | 727.6   | 374.7   |
| 85°   | 165.6   | 166.9   | 228.4   | 314.4   | 655.8   | 766.2   | 786.7   | 780.3   | 693.0   | 476.1   | 200.2   |
| 87.5° | 79.6    | 82.2    | 118.1   | 148.9   | 257.9   | 237.4   | 224.5   | 260.5   | 327.2   | 256.7   | 86.0    |
| 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°    | 2407.6  | 2407.6  | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 |
| 2.5°  | 2405.0  | 2401.1  | 2392.2 | 2388.4 | 2385.7 | 2387.0 | 2385.7 | 2385.7 | 2387.0 | 2387.0 | 2387.0 |
| 5°    | 2416.5  | 2410.1  | 2396.0 | 2396.0 | 2403.7 | 2421.7 | 2438.4 | 2451.2 | 2465.3 | 2464.0 | 2464.0 |
| 7.5°  | 2466.7  | 2455.0  | 2438.4 | 2443.5 | 2462.8 | 2491.0 | 2520.6 | 2548.7 | 2577.0 | 2579.5 | 2578.3 |
| 10°   | 2539.7  | 2528.2  | 2510.2 | 2516.7 | 2547.5 | 2589.9 | 2627.0 | 2668.1 | 2698.9 | 2707.9 | 2705.3 |
| 12.5° | 2623.2  | 2600.1  | 2584.7 | 2602.6 | 2651.4 | 2707.9 | 2743.8 | 2774.6 | 2796.4 | 2809.3 | 2804.1 |
| 15°   | 2707.9  | 2686.1  | 2668.1 | 2705.3 | 2764.4 | 2817.0 | 2834.9 | 2840.1 | 2843.9 | 2856.8 | 2854.2 |
| 17.5° | 2790.0  | 2760.5  | 2754.1 | 2802.9 | 2859.3 | 2882.4 | 2872.2 | 2850.3 | 2833.7 | 2843.9 | 2842.7 |
| 20°   | 2863.2  | 2840.1  | 2837.5 | 2886.3 | 2908.1 | 2886.3 | 2842.7 | 2804.1 | 2774.6 | 2777.2 | 2775.9 |
| 22.5° | 2932.5  | 2914.5  | 2917.1 | 2937.6 | 2903.0 | 2828.5 | 2756.6 | 2704.1 | 2671.9 | 2678.3 | 2682.2 |
| 25°   | 3009.5  | 2991.5  | 2997.9 | 2964.5 | 2850.3 | 2720.7 | 2616.8 | 2571.9 | 2559.0 | 2571.9 | 2580.9 |
| 27.5° | 3109.6  | 3098.0  | 3094.2 | 2965.9 | 2756.6 | 2561.6 | 2443.5 | 2426.9 | 2438.4 | 2466.7 | 2480.7 |
| 30°   | 3217.4  | 3217.4  | 3196.8 | 2944.0 | 2628.3 | 2370.4 | 2267.7 | 2270.3 | 2310.1 | 2349.8 | 2364.0 |
| 32.5° | 3321.4  | 3343.1  | 3279.0 | 2885.0 | 2462.8 | 2184.2 | 2106.0 | 2108.6 | 2143.2 | 2192.0 | 2204.8 |
| 35°   | 3407.3  | 3470.2  | 3349.5 | 2777.2 | 2267.7 | 2027.7 | 1968.7 | 1934.0 | 1935.3 | 1972.6 | 1982.8 |
| 37.5° | 3525.4  | 3642.2  | 3390.7 | 2616.8 | 2059.8 | 1894.3 | 1827.5 | 1767.2 | 1727.4 | 1712.0 | 1712.0 |
| 40°   | 3730.8  | 3902.7  | 3400.9 | 2379.4 | 1863.4 | 1767.2 | 1672.2 | 1600.3 | 1523.4 | 1454.1 | 1441.2 |
| 42.5° | 4078.5  | 4295.4  | 3380.4 | 2106.0 | 1686.4 | 1627.3 | 1534.9 | 1446.4 | 1339.8 | 1242.3 | 1234.6 |
| 45°   | 4694.5  | 4806.1  | 3325.1 | 1822.4 | 1528.5 | 1492.5 | 1402.7 | 1306.5 | 1193.5 | 1106.3 | 1099.9 |
| 47.5° | 5681.5  | 5523.6  | 3252.1 | 1570.8 | 1384.7 | 1374.4 | 1305.1 | 1193.5 | 1080.6 | 1020.3 | 1013.8 |
| 50°   | 7122.7  | 6652.9  | 3241.8 | 1388.6 | 1269.2 | 1274.4 | 1217.9 | 1115.3 | 1016.4 | 966.4  | 958.7  |
| 52.5° | 8857.7  | 8017.2  | 3309.8 | 1260.2 | 1167.9 | 1187.1 | 1158.9 | 1063.9 | 976.7  | 934.3  | 926.6  |
| 55°   | 10541.5 | 9244.0  | 3350.9 | 1160.2 | 1072.9 | 1108.9 | 1112.6 | 1033.1 | 953.5  | 911.2  | 906.1  |
| 57.5° | 11908.3 | 10168.0 | 3168.6 | 1069.1 | 990.8  | 1046.0 | 1074.2 | 1015.2 | 942.0  | 909.9  | 904.7  |
| 60°   | 12859.3 | 10604.4 | 2650.2 | 988.2  | 930.4  | 995.9  | 1060.1 | 1016.4 | 970.3  | 974.0  | 976.7  |
| 62.5° | 13162.2 | 10410.7 | 1988.0 | 927.9  | 889.4  | 979.2  | 1083.1 | 1069.1 | 1021.6 | 1051.1 | 1056.2 |
| 65°   | 12660.3 | 9609.8  | 1441.2 | 880.4  | 853.4  | 990.8  | 1152.4 | 1107.5 | 1003.6 | 1025.4 | 1025.4 |
| 67.5° | 10980.4 | 8279.0  | 1121.6 | 836.7  | 812.4  | 1012.6 | 1221.7 | 1103.7 | 961.3  | 986.9  | 963.8  |
| 70°   | 8710.2  | 6404.0  | 934.3  | 788.0  | 768.8  | 980.5  | 1228.2 | 1063.9 | 911.2  | 916.4  | 872.7  |
| 72.5° | 5780.3  | 4210.7  | 803.4  | 741.8  | 702.0  | 881.7  | 1175.5 | 1012.6 | 862.4  | 832.9  | 789.3  |
| 75°   | 2832.4  | 2099.6  | 700.7  | 684.1  | 614.8  | 767.4  | 1103.7 | 963.8  | 809.8  | 763.6  | 739.2  |
| 77.5° | 1097.3  | 893.2   | 598.0  | 610.9  | 535.1  | 676.3  | 1008.7 | 894.5  | 740.5  | 677.6  | 658.3  |
| 80°   | 532.6   | 507.0   | 490.2  | 509.5  | 440.2  | 576.3  | 921.5  | 834.2  | 676.3  | 607.0  | 578.8  |
| 82.5° | 331.1   | 313.1   | 376.0  | 396.5  | 338.8  | 526.2  | 874.0  | 782.9  | 595.5  | 503.1  | 480.0  |
| 85°   | 168.1   | 179.6   | 251.5  | 270.8  | 242.5  | 418.4  | 720.0  | 587.8  | 429.9  | 356.8  | 359.4  |
| 87.5° | 64.2    | 86.0    | 132.2  | 142.5  | 129.6  | 220.8  | 396.5  | 342.6  | 275.9  | 187.4  | 173.2  |
| 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)