

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: P522707

Luminaire Tested: **GLAN-SA3C-740-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522707  
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-SA3C-740-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21003 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

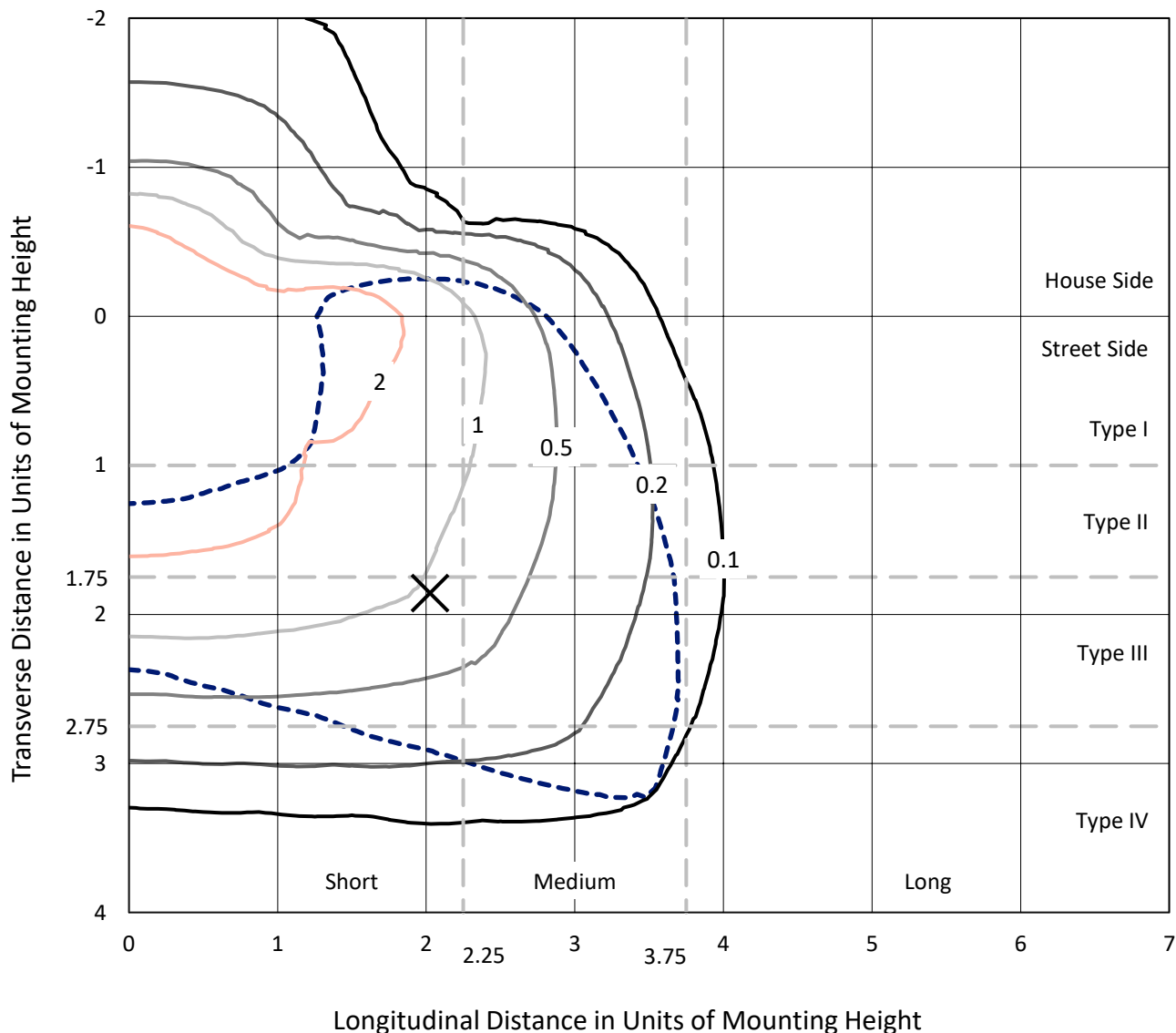
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

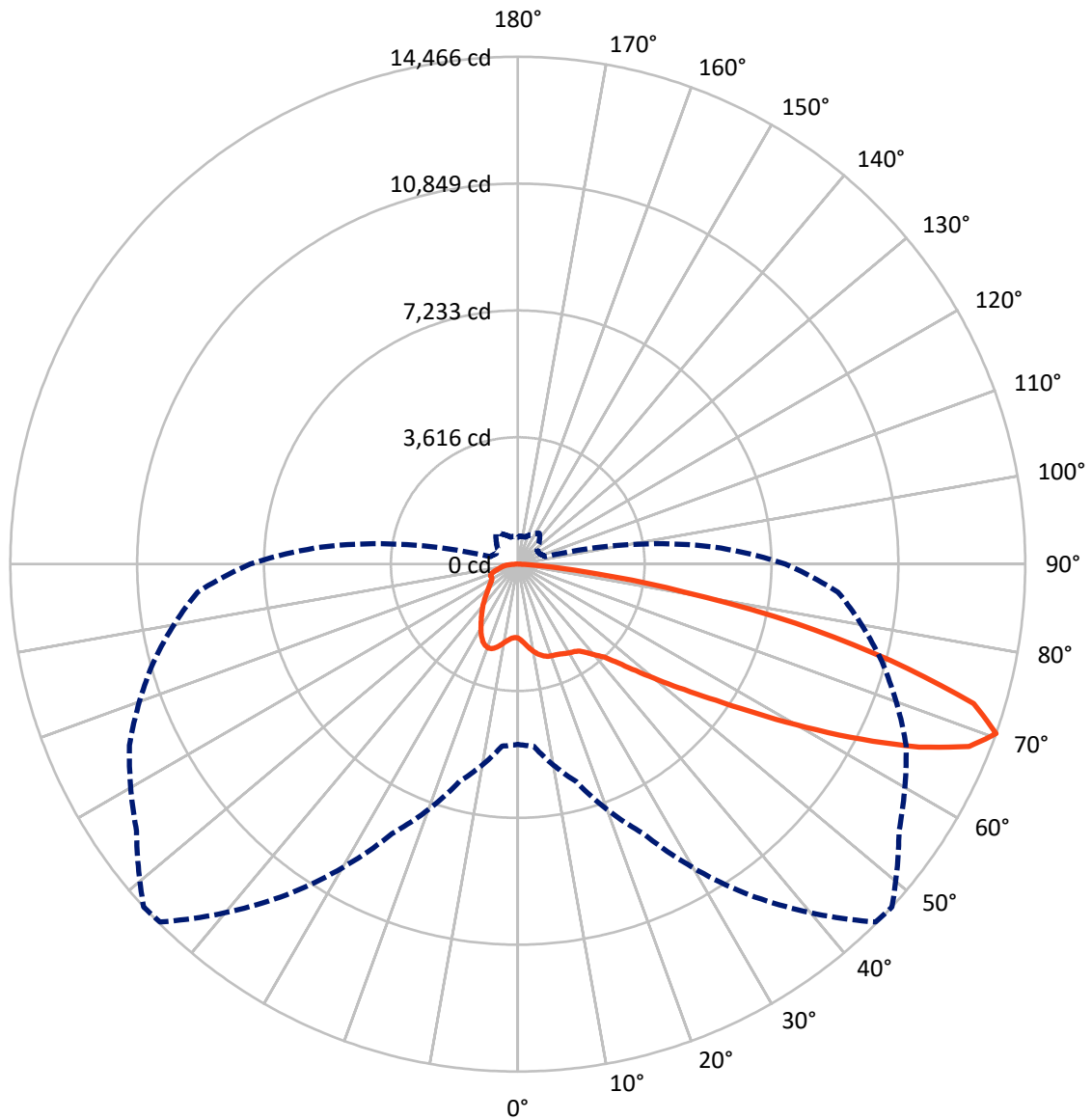
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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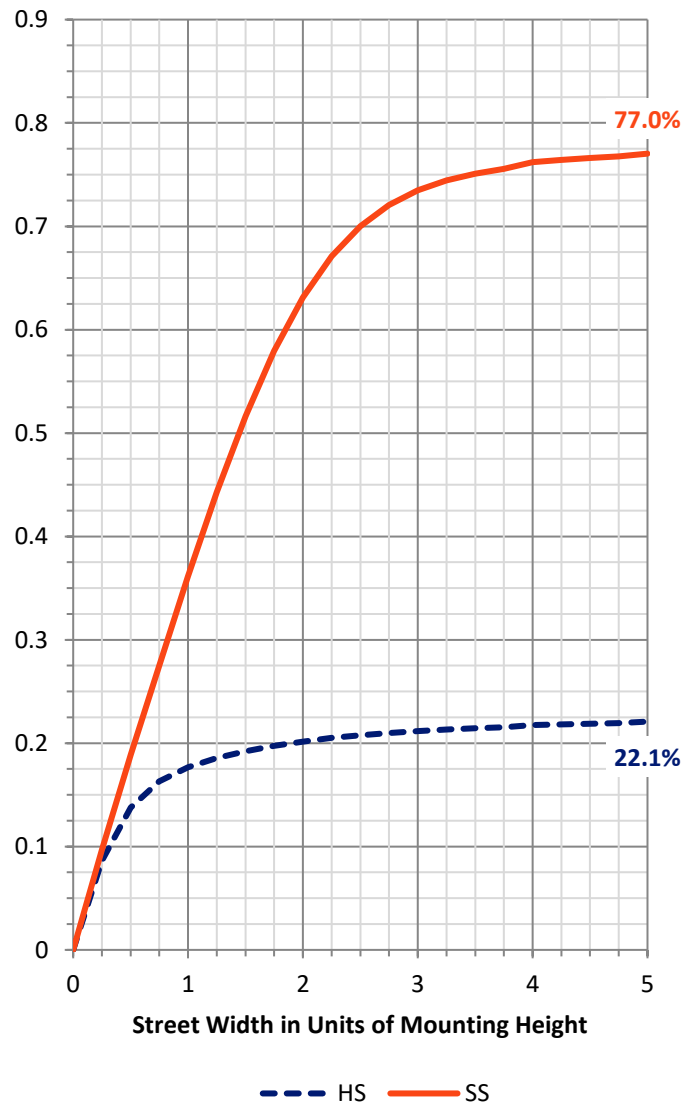
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4755.5   | 0.0    | 4755.5  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 16247.5  | 0.0    | 16247.5 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 21003.0  | 0.0    | 21003.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 217.3   | 1.0       |
| 10°-20°   | 726.6   | 3.5       |
| 20°-30°   | 1208.3  | 5.8       |
| 30°-40°   | 1712.6  | 8.2       |
| 40°-50°   | 2528.1  | 12.0      |
| 50°-60°   | 4378.8  | 20.8      |
| 60°-70°   | 6185.2  | 29.4      |
| 70°-80°   | 3555.6  | 16.9      |
| 80°-90°   | 490.6   | 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°    | 21003.0 | 100.0     |
| 0°-180°   | 21003.0 | 100.0     |



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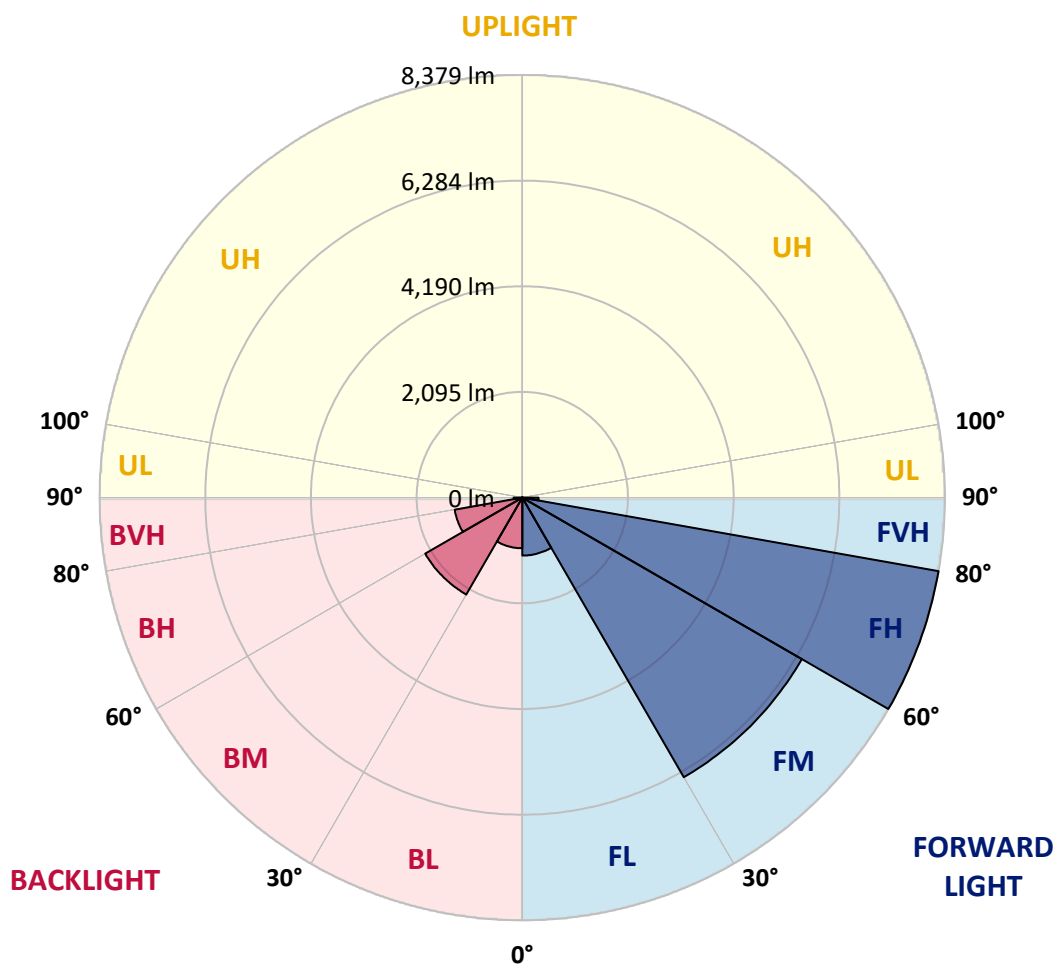
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1148.5 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 6399.2 | 30.5      |                         |      |          |
| FH   | (60°-80°)   | 8379.3 | 39.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 320.5  | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1003.7 | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2220.3 | 10.6      | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1361.4 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 170.1  | 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°    | 2108.4 | 2108.4 | 2108.4 | 2108.4  | 2108.4  | 2108.4  | 2108.4  | 2108.4  | 2108.4  | 2108.4  | 2108.4  |
| 2.5°  | 2244.4 | 2236.6 | 2235.4 | 2218.6  | 2209.6  | 2192.7  | 2186.0  | 2170.3  | 2151.2  | 2132.1  | 2114.1  |
| 5°    | 2420.9 | 2420.9 | 2413.0 | 2389.4  | 2352.3  | 2314.1  | 2297.3  | 2266.9  | 2213.0  | 2169.1  | 2132.1  |
| 7.5°  | 2601.8 | 2604.1 | 2588.4 | 2553.5  | 2500.7  | 2438.9  | 2423.1  | 2378.2  | 2301.8  | 2237.7  | 2182.6  |
| 10°   | 2758.1 | 2758.1 | 2736.7 | 2689.5  | 2623.2  | 2555.8  | 2540.0  | 2489.5  | 2404.0  | 2324.2  | 2252.3  |
| 12.5° | 2877.2 | 2877.2 | 2849.1 | 2787.3  | 2715.4  | 2654.7  | 2636.7  | 2588.4  | 2508.6  | 2419.8  | 2328.7  |
| 15°   | 2954.8 | 2949.1 | 2917.7 | 2848.0  | 2778.3  | 2725.5  | 2713.1  | 2672.6  | 2599.6  | 2509.7  | 2407.4  |
| 17.5° | 2958.1 | 2955.9 | 2925.5 | 2867.1  | 2806.4  | 2770.4  | 2762.6  | 2735.6  | 2678.3  | 2592.9  | 2485.0  |
| 20°   | 2892.9 | 2897.4 | 2877.2 | 2835.6  | 2806.4  | 2790.7  | 2787.3  | 2778.3  | 2737.8  | 2658.0  | 2550.1  |
| 22.5° | 2823.3 | 2831.1 | 2812.0 | 2789.5  | 2787.3  | 2803.0  | 2805.3  | 2807.5  | 2781.7  | 2704.1  | 2605.2  |
| 25°   | 2806.4 | 2812.0 | 2792.9 | 2772.7  | 2785.0  | 2826.6  | 2835.6  | 2844.6  | 2824.4  | 2759.2  | 2670.4  |
| 27.5° | 2891.8 | 2887.3 | 2850.2 | 2806.4  | 2814.3  | 2870.5  | 2882.8  | 2892.9  | 2882.8  | 2826.6  | 2751.3  |
| 30°   | 3133.5 | 3118.8 | 3044.7 | 2916.5  | 2876.1  | 2915.4  | 2927.8  | 2955.9  | 2955.9  | 2914.3  | 2839.0  |
| 32.5° | 3538.1 | 3510.0 | 3374.0 | 3122.2  | 2981.7  | 2958.1  | 2970.5  | 3016.6  | 3040.2  | 3007.6  | 2925.5  |
| 35°   | 4029.2 | 4000.0 | 3805.5 | 3467.3  | 3175.0  | 3043.5  | 3040.2  | 3091.9  | 3154.8  | 3081.8  | 2975.0  |
| 37.5° | 4522.6 | 4492.3 | 4258.5 | 3878.6  | 3457.1  | 3223.4  | 3203.1  | 3221.1  | 3248.1  | 3114.3  | 3043.5  |
| 40°   | 5016.0 | 4980.0 | 4775.5 | 4338.3  | 3802.2  | 3461.6  | 3408.8  | 3327.9  | 3316.6  | 3221.1  | 3176.2  |
| 42.5° | 5504.9 | 5472.3 | 5368.9 | 4854.2  | 4215.8  | 3694.3  | 3613.4  | 3474.0  | 3516.7  | 3459.4  | 3420.0  |
| 45°   | 5998.3 | 6000.5 | 5890.4 | 5433.0  | 4714.8  | 4123.6  | 4014.6  | 3796.6  | 3897.7  | 3876.4  | 3898.8  |
| 47.5° | 6435.5 | 6429.9 | 6390.5 | 5994.9  | 5334.1  | 4676.6  | 4536.1  | 4283.2  | 4456.3  | 4535.0  | 4706.9  |
| 50°   | 6859.2 | 6855.8 | 6858.1 | 6632.2  | 6053.4  | 5334.1  | 5179.0  | 4913.7  | 5303.7  | 5576.8  | 5884.8  |
| 52.5° | 7466.1 | 7485.2 | 7349.2 | 7289.7  | 6927.8  | 6110.7  | 5939.8  | 5665.6  | 6305.1  | 6735.6  | 7336.9  |
| 55°   | 8075.3 | 8059.5 | 7952.8 | 8014.6  | 7842.6  | 7030.0  | 6851.3  | 6633.3  | 7420.0  | 7890.9  | 8794.6  |
| 57.5° | 8433.8 | 8439.4 | 8548.4 | 8850.8  | 8972.1  | 8176.4  | 8014.6  | 7846.0  | 8673.2  | 9007.0  | 10091.6 |
| 60°   | 8756.4 | 8782.2 | 9095.8 | 9666.7  | 9996.0  | 9584.7  | 9440.8  | 9276.7  | 9822.9  | 9955.6  | 11217.7 |
| 62.5° | 8857.5 | 8937.3 | 9484.6 | 10338.8 | 10994.1 | 11173.9 | 10995.2 | 10633.3 | 10917.6 | 10865.9 | 11980.8 |
| 65°   | 8352.9 | 8461.9 | 9443.1 | 10590.6 | 11885.3 | 12682.2 | 12568.6 | 11896.5 | 11850.5 | 11539.1 | 12105.6 |
| 67.5° | 7024.4 | 7133.4 | 8393.3 | 10062.3 | 12254.0 | 13988.1 | 13874.6 | 12818.2 | 12416.9 | 11602.1 | 11161.5 |
| 70°   | 5139.6 | 5208.2 | 6413.0 | 8472.0  | 11513.3 | 14426.5 | 14465.8 | 13267.7 | 12214.6 | 10746.8 | 9164.3  |
| 72.5° | 2961.5 | 3113.2 | 3957.3 | 5960.1  | 9406.0  | 13318.3 | 13591.4 | 12332.6 | 10935.6 | 8965.4  | 6407.4  |
| 75°   | 1273.4 | 1276.8 | 1829.7 | 3287.4  | 6370.3  | 10705.2 | 10969.3 | 10223.1 | 8587.8  | 6199.5  | 3421.2  |
| 77.5° | 605.8  | 617.0  | 804.7  | 1467.8  | 3506.6  | 7396.4  | 8109.0  | 7222.2  | 5492.5  | 2978.4  | 1292.5  |
| 80°   | 393.4  | 401.2  | 492.3  | 728.3   | 1719.6  | 4288.8  | 4785.6  | 4166.3  | 2423.1  | 1064.3  | 557.5   |
| 82.5° | 238.3  | 240.5  | 329.3  | 445.1   | 946.3   | 1942.1  | 2289.4  | 1808.4  | 1034.0  | 637.3   | 328.2   |
| 85°   | 145.0  | 146.1  | 200.1  | 275.4   | 574.3   | 671.0   | 689.0   | 683.3   | 606.9   | 417.0   | 175.3   |
| 87.5° | 69.7   | 71.9   | 103.4  | 130.4   | 225.9   | 207.9   | 196.7   | 228.2   | 286.6   | 224.8   | 75.3    |
| 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°    | 2108.4  | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 | 2108.4 |
| 2.5°  | 2106.2  | 2102.8 | 2095.0 | 2091.6 | 2089.3 | 2090.5 | 2089.3 | 2089.3 | 2090.5 | 2090.5 | 2090.5 |
| 5°    | 2116.3  | 2110.7 | 2098.3 | 2098.3 | 2105.1 | 2120.8 | 2135.4 | 2146.7 | 2159.0 | 2157.9 | 2157.9 |
| 7.5°  | 2160.1  | 2150.0 | 2135.4 | 2139.9 | 2156.8 | 2181.5 | 2207.4 | 2232.1 | 2256.8 | 2259.1 | 2257.9 |
| 10°   | 2224.2  | 2214.1 | 2198.4 | 2204.0 | 2231.0 | 2268.0 | 2300.6 | 2336.6 | 2363.6 | 2371.4 | 2369.2 |
| 12.5° | 2297.3  | 2277.0 | 2263.5 | 2279.3 | 2322.0 | 2371.4 | 2402.9 | 2429.9 | 2449.0 | 2460.2 | 2455.7 |
| 15°   | 2371.4  | 2352.3 | 2336.6 | 2369.2 | 2420.9 | 2467.0 | 2482.7 | 2487.2 | 2490.6 | 2501.8 | 2499.6 |
| 17.5° | 2443.4  | 2417.5 | 2411.9 | 2454.6 | 2504.1 | 2524.3 | 2515.3 | 2496.2 | 2481.6 | 2490.6 | 2489.5 |
| 20°   | 2507.4  | 2487.2 | 2485.0 | 2527.7 | 2546.8 | 2527.7 | 2489.5 | 2455.7 | 2429.9 | 2432.1 | 2431.0 |
| 22.5° | 2568.1  | 2552.4 | 2554.6 | 2572.6 | 2542.3 | 2477.1 | 2414.2 | 2368.1 | 2340.0 | 2345.6 | 2349.0 |
| 25°   | 2635.6  | 2619.8 | 2625.4 | 2596.2 | 2496.2 | 2382.7 | 2291.6 | 2252.3 | 2241.1 | 2252.3 | 2260.2 |
| 27.5° | 2723.2  | 2713.1 | 2709.7 | 2597.3 | 2414.2 | 2243.3 | 2139.9 | 2125.3 | 2135.4 | 2160.1 | 2172.5 |
| 30°   | 2817.6  | 2817.6 | 2799.7 | 2578.2 | 2301.8 | 2075.9 | 1985.9 | 1988.2 | 2023.0 | 2057.9 | 2070.2 |
| 32.5° | 2908.7  | 2927.8 | 2871.6 | 2526.5 | 2156.8 | 1912.9 | 1844.3 | 1846.6 | 1876.9 | 1919.6 | 1930.9 |
| 35°   | 2984.0  | 3039.0 | 2933.4 | 2432.1 | 1985.9 | 1775.8 | 1724.1 | 1693.7 | 1694.9 | 1727.4 | 1736.4 |
| 37.5° | 3087.4  | 3189.6 | 2969.4 | 2291.6 | 1803.9 | 1658.9 | 1600.4 | 1547.6 | 1512.8 | 1499.3 | 1499.3 |
| 40°   | 3267.2  | 3417.8 | 2978.4 | 2083.7 | 1631.9 | 1547.6 | 1464.5 | 1401.5 | 1334.1 | 1273.4 | 1262.1 |
| 42.5° | 3571.8  | 3761.7 | 2960.4 | 1844.3 | 1476.8 | 1425.1 | 1344.2 | 1266.6 | 1173.4 | 1087.9 | 1081.2 |
| 45°   | 4111.2  | 4209.0 | 2912.0 | 1595.9 | 1338.6 | 1307.1 | 1228.4 | 1144.1 | 1045.2 | 968.8  | 963.2  |
| 47.5° | 4975.5  | 4837.3 | 2848.0 | 1375.7 | 1212.7 | 1203.7 | 1143.0 | 1045.2 | 946.3  | 893.5  | 887.9  |
| 50°   | 6237.7  | 5826.3 | 2839.0 | 1216.1 | 1111.5 | 1116.0 | 1066.6 | 976.7  | 890.1  | 846.3  | 839.6  |
| 52.5° | 7757.2  | 7021.0 | 2898.6 | 1103.7 | 1022.8 | 1039.6 | 1014.9 | 931.7  | 855.3  | 818.2  | 811.5  |
| 55°   | 9231.8  | 8095.5 | 2934.5 | 1016.0 | 939.6  | 971.1  | 974.4  | 904.7  | 835.1  | 798.0  | 793.5  |
| 57.5° | 10428.7 | 8904.7 | 2774.9 | 936.2  | 867.7  | 916.0  | 940.7  | 889.0  | 824.9  | 796.8  | 792.4  |
| 60°   | 11261.5 | 9286.8 | 2320.9 | 865.4  | 814.8  | 872.2  | 928.3  | 890.1  | 849.7  | 853.0  | 855.3  |
| 62.5° | 11526.8 | 9117.1 | 1740.9 | 812.6  | 778.9  | 857.5  | 948.6  | 936.2  | 894.6  | 920.5  | 925.0  |
| 65°   | 11087.3 | 8415.8 | 1262.1 | 771.0  | 747.4  | 867.7  | 1009.3 | 969.9  | 878.9  | 898.0  | 898.0  |
| 67.5° | 9616.1  | 7250.3 | 982.3  | 732.8  | 711.4  | 886.8  | 1070.0 | 966.6  | 841.8  | 864.3  | 844.1  |
| 70°   | 7628.0  | 5608.3 | 818.2  | 690.1  | 673.2  | 858.7  | 1075.6 | 931.7  | 798.0  | 802.5  | 764.3  |
| 72.5° | 5062.1  | 3687.5 | 703.6  | 649.6  | 614.8  | 772.1  | 1029.5 | 886.8  | 755.3  | 729.4  | 691.2  |
| 75°   | 2480.5  | 1838.7 | 613.7  | 599.0  | 538.4  | 672.1  | 966.6  | 844.1  | 709.2  | 668.7  | 647.4  |
| 77.5° | 960.9   | 782.2  | 523.7  | 535.0  | 468.7  | 592.3  | 883.4  | 783.4  | 648.5  | 593.4  | 576.6  |
| 80°   | 466.4   | 443.9  | 429.3  | 446.2  | 385.5  | 504.6  | 807.0  | 730.5  | 592.3  | 531.6  | 506.9  |
| 82.5° | 290.0   | 274.2  | 329.3  | 347.3  | 296.7  | 460.8  | 765.4  | 685.6  | 521.5  | 440.6  | 420.3  |
| 85°   | 147.2   | 157.3  | 220.3  | 237.1  | 212.4  | 366.4  | 630.5  | 514.7  | 376.5  | 312.4  | 314.7  |
| 87.5° | 56.2    | 75.3   | 115.8  | 124.8  | 113.5  | 193.3  | 347.3  | 300.1  | 241.6  | 164.1  | 151.7  |
| 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)