

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: P193312

Luminaire Tested: **GAN-AF-04-LED-U-T4W-7030-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-T4W-7030-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 23061.3 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 225  
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

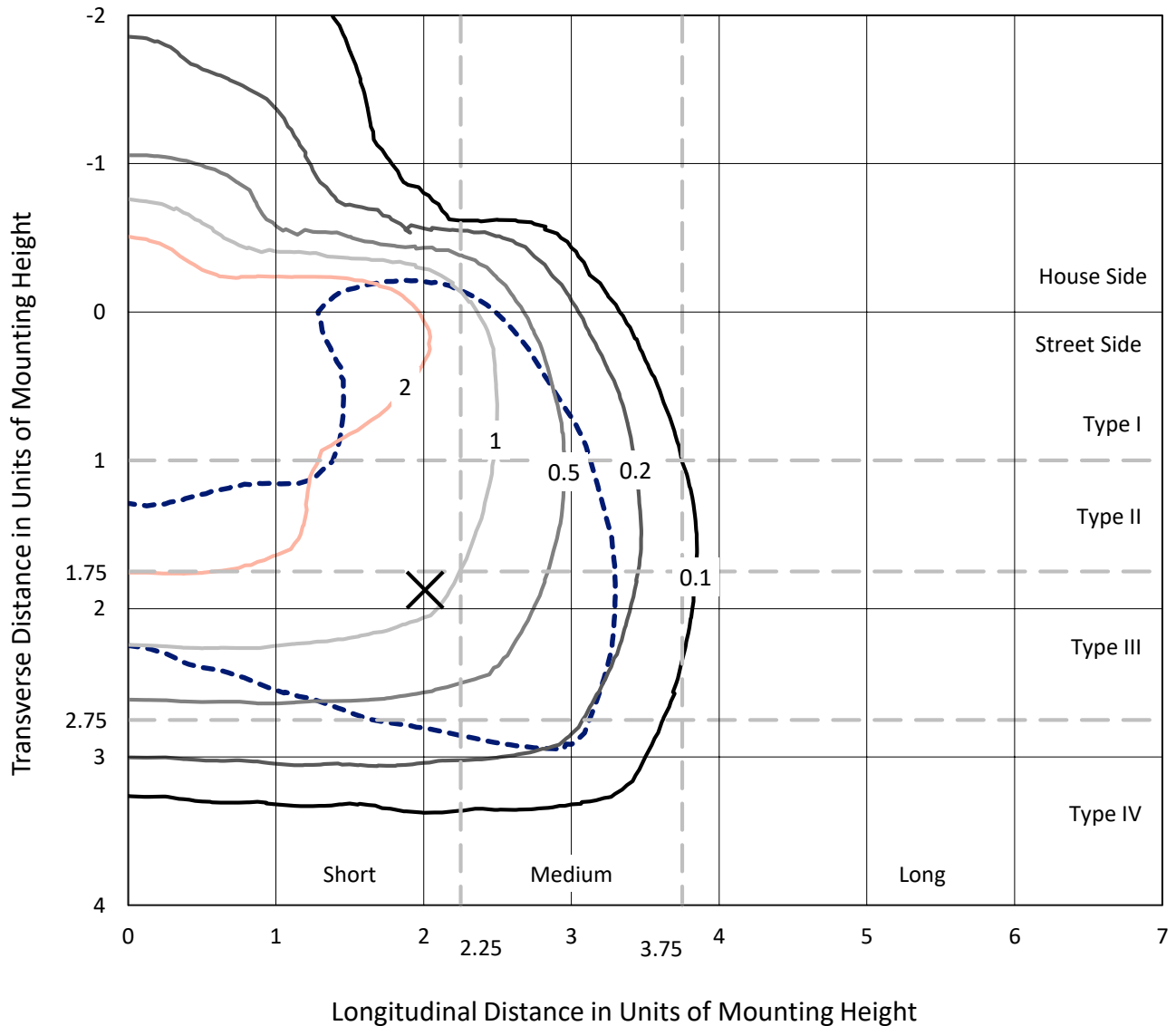


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

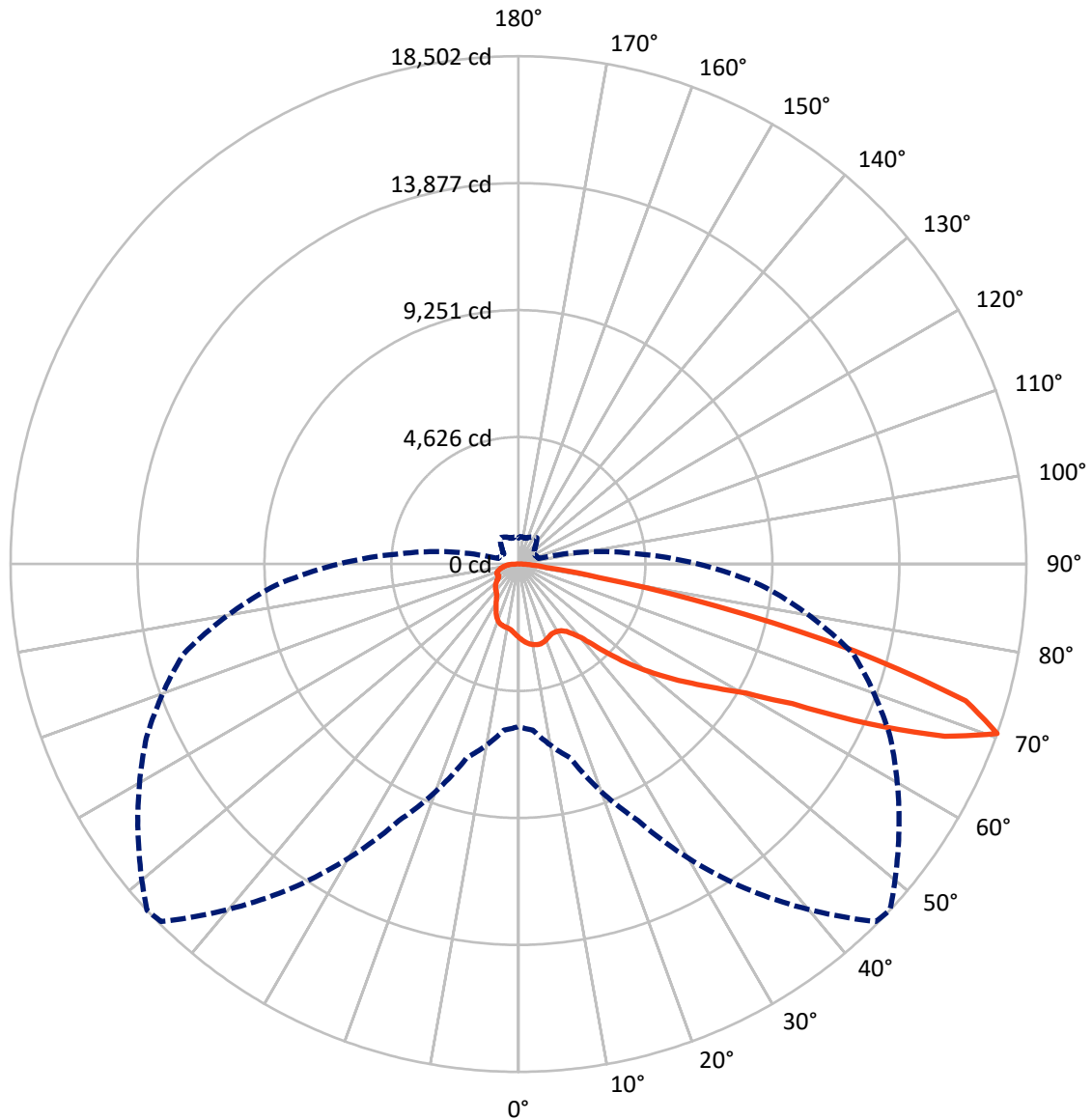


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4811.0   | 0.0    | 4811.0  |
|                    | % Fixture | 20.9     | 0.0    | 20.9    |
| <b>Street Side</b> | Lumens    | 18250.3  | 0.0    | 18250.3 |
|                    | % Fixture | 79.1     | 0.0    | 79.1    |
| <b>Total</b>       | Lumens    | 23061.3  | 0.0    | 23061.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 256.4   | 1.1       |
| 10°-20°   | 752.2   | 3.3       |
| 20°-30°   | 1110.8  | 4.8       |
| 30°-40°   | 1614.5  | 7.0       |
| 40°-50°   | 2905.5  | 12.6      |
| 50°-60°   | 5033.5  | 21.8      |
| 60°-70°   | 7184.2  | 31.2      |
| 70°-80°   | 3688.0  | 16.0      |
| 80°-90°   | 516.3   | 2.2       |
| 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°    | 23061.3 | 100.0     |
| 0°-180°   | 23061.3 | 100.0     |

**Coefficient of Utilization**



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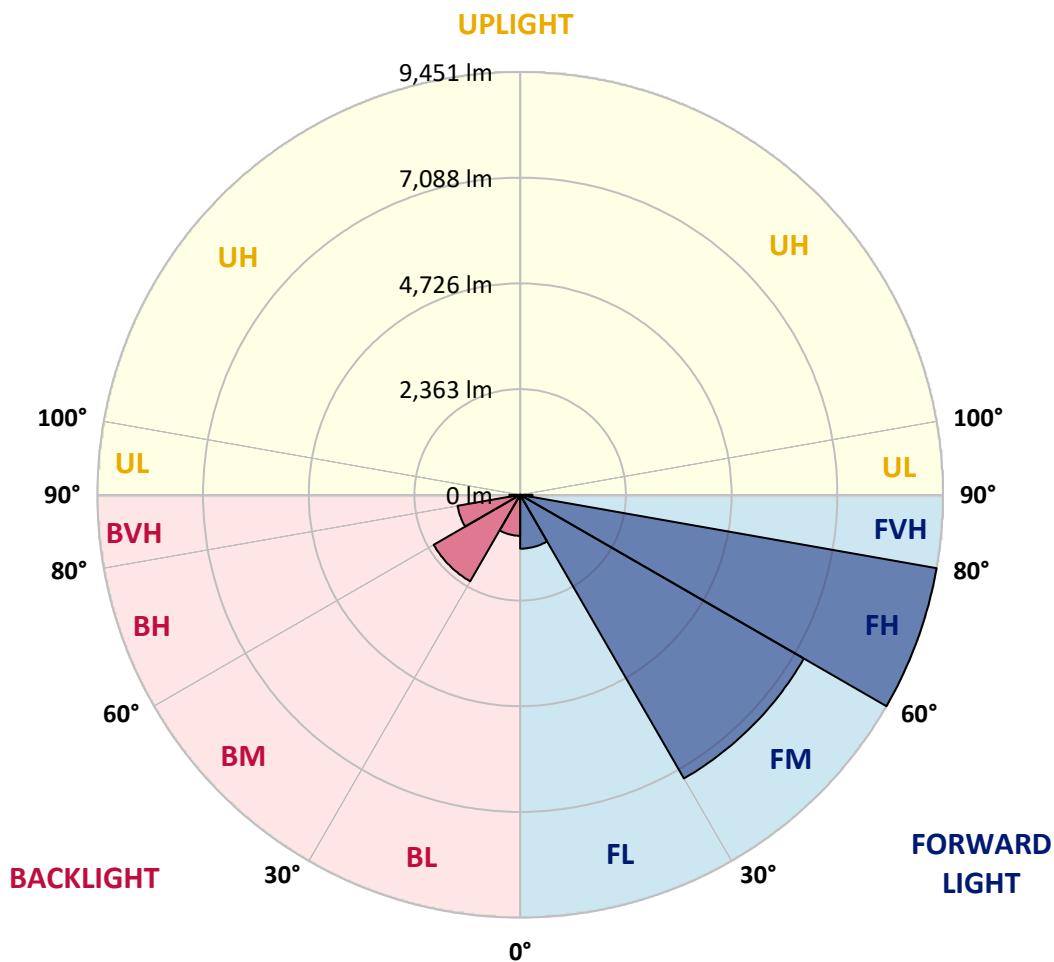
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1203.3 | 5.2       |                         |      |          |
| FM   | (30°-60°)   | 7320.3 | 31.7      |                         |      |          |
| FH   | (60°-80°)   | 9451.2 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 275.5  | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 916.0  | 4.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 2233.1 | 9.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1421.0 | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 240.8  | 1.0       |                         |      | G3/500   |
| 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°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  | 2675.9  |
| 2.5°  | 2832.9  | 2827.3  | 2825.0  | 2820.5  | 2814.9  | 2786.8  | 2781.3  | 2761.1  | 2733.0  | 2703.8  | 2673.6  |
| 5°    | 3019.2  | 3018.1  | 3005.7  | 2983.3  | 2947.4  | 2885.6  | 2871.0  | 2821.7  | 2755.5  | 2691.5  | 2627.5  |
| 7.5°  | 3182.9  | 3172.9  | 3149.3  | 3104.4  | 3041.6  | 2957.4  | 2937.2  | 2868.8  | 2777.9  | 2690.4  | 2603.9  |
| 10°   | 3303.0  | 3297.5  | 3245.8  | 3184.1  | 3102.2  | 3009.0  | 2985.5  | 2909.2  | 2809.4  | 2698.2  | 2590.5  |
| 12.5° | 3371.4  | 3360.3  | 3300.7  | 3226.8  | 3129.0  | 3038.2  | 3014.7  | 2937.2  | 2825.0  | 2698.2  | 2571.5  |
| 15°   | 3367.0  | 3359.0  | 3299.6  | 3218.9  | 3120.1  | 3040.4  | 3019.2  | 2941.7  | 2821.7  | 2687.0  | 2546.9  |
| 17.5° | 3277.2  | 3280.5  | 3230.0  | 3150.4  | 3069.6  | 3009.0  | 2990.0  | 2918.2  | 2799.2  | 2664.7  | 2517.7  |
| 20°   | 3120.1  | 3135.8  | 3102.2  | 3031.5  | 2986.6  | 2945.1  | 2932.7  | 2872.2  | 2764.5  | 2632.0  | 2486.2  |
| 22.5° | 2963.0  | 2977.7  | 2964.2  | 2904.6  | 2898.0  | 2873.3  | 2866.5  | 2822.8  | 2734.2  | 2611.9  | 2467.2  |
| 25°   | 2847.6  | 2861.0  | 2858.7  | 2807.1  | 2827.3  | 2826.2  | 2820.5  | 2799.2  | 2727.4  | 2611.9  | 2470.6  |
| 27.5° | 2816.0  | 2820.5  | 2816.0  | 2768.9  | 2797.0  | 2819.4  | 2814.9  | 2811.6  | 2747.7  | 2644.4  | 2513.2  |
| 30°   | 2923.8  | 2917.0  | 2882.3  | 2786.8  | 2812.7  | 2844.1  | 2839.6  | 2841.9  | 2808.2  | 2729.8  | 2608.6  |
| 32.5° | 3353.5  | 3323.2  | 3213.2  | 2945.1  | 2876.7  | 2893.5  | 2895.7  | 2932.7  | 2938.4  | 2861.0  | 2756.6  |
| 35°   | 3996.3  | 3962.8  | 3820.2  | 3369.2  | 3075.2  | 3016.8  | 3016.8  | 3073.0  | 3106.7  | 3049.4  | 2986.6  |
| 37.5° | 4677.4  | 4640.3  | 4564.1  | 3957.1  | 3492.6  | 3231.3  | 3225.6  | 3264.8  | 3313.1  | 3326.5  | 3342.2  |
| 40°   | 5451.5  | 5412.2  | 5433.6  | 4616.8  | 4075.0  | 3602.6  | 3522.9  | 3494.8  | 3625.0  | 3711.4  | 3837.0  |
| 42.5° | 6298.6  | 6280.7  | 6288.5  | 5351.6  | 4737.9  | 4158.0  | 4044.6  | 3899.9  | 4056.9  | 4210.7  | 4474.2  |
| 45°   | 7082.8  | 7098.6  | 7090.7  | 6138.1  | 5476.2  | 4835.6  | 4715.5  | 4435.1  | 4588.8  | 4852.4  | 5282.1  |
| 47.5° | 7769.4  | 7704.4  | 7805.4  | 6997.5  | 6303.0  | 5594.0  | 5445.9  | 5070.0  | 5226.0  | 5551.4  | 6278.4  |
| 50°   | 8603.1  | 8594.2  | 8446.0  | 8144.1  | 7302.8  | 6355.8  | 6161.6  | 5726.4  | 5968.8  | 6420.8  | 7533.9  |
| 52.5° | 9479.4  | 9316.6  | 9180.8  | 9036.2  | 8362.9  | 7136.7  | 6898.8  | 6380.5  | 6841.6  | 7410.4  | 9064.1  |
| 55°   | 9658.8  | 9585.9  | 9754.1  | 9997.7  | 9385.1  | 7947.8  | 7670.8  | 7200.6  | 7824.4  | 8541.4  | 10829.0 |
| 57.5° | 10042.6 | 10041.4 | 10389.3 | 10823.4 | 10437.4 | 8808.4  | 8529.0  | 8191.2  | 8929.5  | 9837.1  | 12702.6 |
| 60°   | 10301.7 | 10374.6 | 11020.9 | 11863.5 | 11470.8 | 9802.4  | 9545.6  | 9334.6  | 10186.1 | 11285.6 | 14448.3 |
| 62.5° | 10437.4 | 10536.2 | 11418.0 | 12285.3 | 12931.5 | 11457.3 | 11200.3 | 10896.3 | 11848.8 | 12874.3 | 15469.4 |
| 65°   | 9873.1  | 10067.1 | 11356.3 | 12649.9 | 14210.6 | 14139.9 | 14024.3 | 13490.2 | 13927.9 | 14129.7 | 15100.2 |
| 67.5° | 8311.4  | 8509.9  | 10011.1 | 12309.9 | 15123.7 | 16727.0 | 16751.7 | 15839.7 | 15206.8 | 14237.5 | 12695.9 |
| 70°   | 5921.7  | 6077.5  | 7319.6  | 10320.7 | 14428.2 | 18417.9 | 18502.0 | 16922.3 | 14952.1 | 12626.3 | 8870.1  |
| 72.5° | 2811.6  | 2907.0  | 4082.8  | 6717.0  | 11449.4 | 16875.2 | 17037.8 | 15540.1 | 12713.9 | 9348.0  | 4839.0  |
| 75°   | 1033.3  | 1062.4  | 1380.0  | 2857.5  | 6640.8  | 12444.6 | 12636.5 | 11139.7 | 8428.0  | 4653.8  | 1843.3  |
| 77.5° | 619.3   | 638.4   | 774.1   | 1206.1  | 2611.9  | 7113.1  | 7397.0  | 6058.5  | 3683.3  | 1732.3  | 906.6   |
| 80°   | 433.1   | 446.6   | 555.4   | 750.6   | 1234.1  | 2710.6  | 2963.0  | 2472.7  | 1467.5  | 1096.1  | 659.7   |
| 82.5° | 292.9   | 299.6   | 390.4   | 507.1   | 820.1   | 968.2   | 1044.5  | 1099.4  | 989.6   | 815.6   | 418.5   |
| 85°   | 191.9   | 198.7   | 264.7   | 334.4   | 521.7   | 500.4   | 511.6   | 647.4   | 722.5   | 554.3   | 232.2   |
| 87.5° | 110.0   | 114.4   | 159.3   | 178.4   | 255.7   | 212.1   | 214.2   | 341.1   | 462.2   | 373.5   | 141.4   |
| 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°    | 2675.9  | 2675.9  | 2675.9 | 2675.9 | 2675.9 | 2675.9 | 2675.9 | 2675.9 | 2675.9 | 2675.9 | 2675.9 |
| 2.5°  | 2665.7  | 2651.1  | 2618.6 | 2598.4 | 2579.4 | 2574.9 | 2567.0 | 2565.9 | 2564.8 | 2564.8 | 2561.4 |
| 5°    | 2606.3  | 2581.6  | 2531.1 | 2503.0 | 2479.5 | 2477.2 | 2476.2 | 2481.8 | 2484.0 | 2486.2 | 2482.8 |
| 7.5°  | 2568.1  | 2534.5  | 2471.7 | 2431.2 | 2403.1 | 2396.5 | 2407.6 | 2433.5 | 2450.3 | 2457.0 | 2453.8 |
| 10°   | 2544.5  | 2503.0  | 2430.2 | 2386.3 | 2362.8 | 2359.5 | 2373.9 | 2404.4 | 2439.1 | 2452.6 | 2451.4 |
| 12.5° | 2517.7  | 2470.6  | 2393.1 | 2347.1 | 2333.7 | 2340.4 | 2359.5 | 2387.6 | 2423.4 | 2444.6 | 2445.9 |
| 15°   | 2490.7  | 2435.7  | 2356.0 | 2315.6 | 2310.1 | 2319.0 | 2337.0 | 2358.4 | 2386.3 | 2407.6 | 2409.9 |
| 17.5° | 2458.3  | 2401.0  | 2321.3 | 2279.8 | 2275.4 | 2279.8 | 2280.9 | 2292.2 | 2310.1 | 2330.3 | 2335.9 |
| 20°   | 2423.4  | 2365.0  | 2282.0 | 2240.5 | 2220.3 | 2202.3 | 2182.1 | 2184.4 | 2190.0 | 2210.2 | 2214.6 |
| 22.5° | 2398.7  | 2340.4  | 2251.8 | 2194.5 | 2140.7 | 2086.9 | 2046.4 | 2040.9 | 2043.0 | 2059.9 | 2065.5 |
| 25°   | 2401.0  | 2339.2  | 2243.8 | 2145.2 | 2027.3 | 1941.0 | 1887.1 | 1878.1 | 1877.0 | 1889.3 | 1897.2 |
| 27.5° | 2444.6  | 2383.1  | 2273.0 | 2094.7 | 1904.0 | 1776.0 | 1718.8 | 1712.1 | 1703.2 | 1706.5 | 1715.5 |
| 30°   | 2542.4  | 2485.1  | 2343.7 | 2043.0 | 1770.4 | 1614.6 | 1555.0 | 1548.3 | 1535.9 | 1530.2 | 1537.1 |
| 32.5° | 2701.7  | 2654.6  | 2447.0 | 1993.7 | 1636.9 | 1476.5 | 1415.9 | 1401.4 | 1393.5 | 1386.7 | 1392.3 |
| 35°   | 2966.4  | 2946.1  | 2585.0 | 1939.8 | 1519.1 | 1369.9 | 1314.9 | 1292.4 | 1281.3 | 1293.6 | 1302.6 |
| 37.5° | 3381.6  | 3392.7  | 2765.6 | 1855.7 | 1428.2 | 1299.2 | 1253.2 | 1227.4 | 1210.6 | 1220.7 | 1230.8 |
| 40°   | 3969.4  | 3977.2  | 2965.3 | 1736.7 | 1349.7 | 1257.7 | 1208.3 | 1184.8 | 1161.2 | 1143.3 | 1142.1 |
| 42.5° | 4741.3  | 4661.6  | 3161.6 | 1607.7 | 1258.7 | 1231.9 | 1176.9 | 1147.8 | 1111.8 | 1062.4 | 1052.3 |
| 45°   | 5656.8  | 5377.5  | 3310.9 | 1459.6 | 1156.7 | 1200.4 | 1142.1 | 1101.8 | 1045.6 | 991.7  | 986.2  |
| 47.5° | 6711.5  | 6146.1  | 3383.8 | 1305.9 | 1061.4 | 1154.5 | 1099.4 | 1035.6 | 964.9  | 938.0  | 934.6  |
| 50°   | 7999.4  | 7058.1  | 3418.6 | 1156.7 | 978.3  | 1093.9 | 1037.8 | 962.6  | 903.1  | 897.6  | 894.2  |
| 52.5° | 9465.7  | 8155.4  | 3429.7 | 1034.4 | 909.9  | 1015.3 | 987.2  | 914.4  | 867.3  | 871.8  | 871.8  |
| 55°   | 11000.7 | 9288.5  | 3277.2 | 945.7  | 847.1  | 934.6  | 953.7  | 895.3  | 856.0  | 874.0  | 880.7  |
| 57.5° | 12409.7 | 10292.7 | 2797.0 | 877.4  | 787.6  | 872.9  | 941.3  | 913.3  | 886.3  | 959.3  | 963.7  |
| 60°   | 13491.4 | 10886.3 | 2089.0 | 815.6  | 743.8  | 851.5  | 973.8  | 981.7  | 988.5  | 1162.3 | 1185.9 |
| 62.5° | 13718.0 | 10688.8 | 1436.1 | 767.4  | 723.7  | 869.4  | 1033.3 | 1034.4 | 1026.6 | 1147.8 | 1162.3 |
| 65°   | 12678.0 | 9440.0  | 1044.5 | 740.4  | 706.8  | 902.1  | 1083.8 | 1060.3 | 1008.7 | 1100.7 | 1073.7 |
| 67.5° | 10068.4 | 7112.0  | 869.4  | 720.2  | 682.1  | 899.7  | 1137.6 | 1083.8 | 998.5  | 1078.2 | 1034.4 |
| 70°   | 6535.4  | 4300.5  | 774.1  | 703.4  | 653.0  | 857.1  | 1169.1 | 1081.5 | 969.3  | 1003.0 | 951.4  |
| 72.5° | 3188.5  | 1923.0  | 710.1  | 678.8  | 622.7  | 797.7  | 1168.0 | 1061.4 | 939.1  | 936.8  | 908.8  |
| 75°   | 1247.6  | 880.7   | 651.8  | 641.8  | 571.1  | 730.4  | 1136.6 | 1032.2 | 903.1  | 867.3  | 857.1  |
| 77.5° | 730.4   | 628.2   | 577.8  | 586.7  | 509.3  | 663.1  | 1090.5 | 981.7  | 853.8  | 811.1  | 800.0  |
| 80°   | 531.8   | 470.2   | 492.5  | 507.1  | 435.3  | 595.8  | 1028.7 | 920.0  | 798.8  | 820.1  | 804.4  |
| 82.5° | 341.1   | 302.9   | 399.5  | 414.0  | 362.4  | 527.2  | 961.5  | 855.0  | 721.4  | 655.2  | 639.5  |
| 85°   | 173.9   | 191.9   | 297.3  | 315.2  | 279.3  | 433.1  | 879.6  | 768.5  | 633.9  | 545.3  | 554.3  |
| 87.5° | 97.6    | 131.2   | 189.6  | 212.1  | 197.4  | 333.2  | 713.6  | 633.9  | 517.3  | 420.7  | 370.3  |
| 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)