

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**

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
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

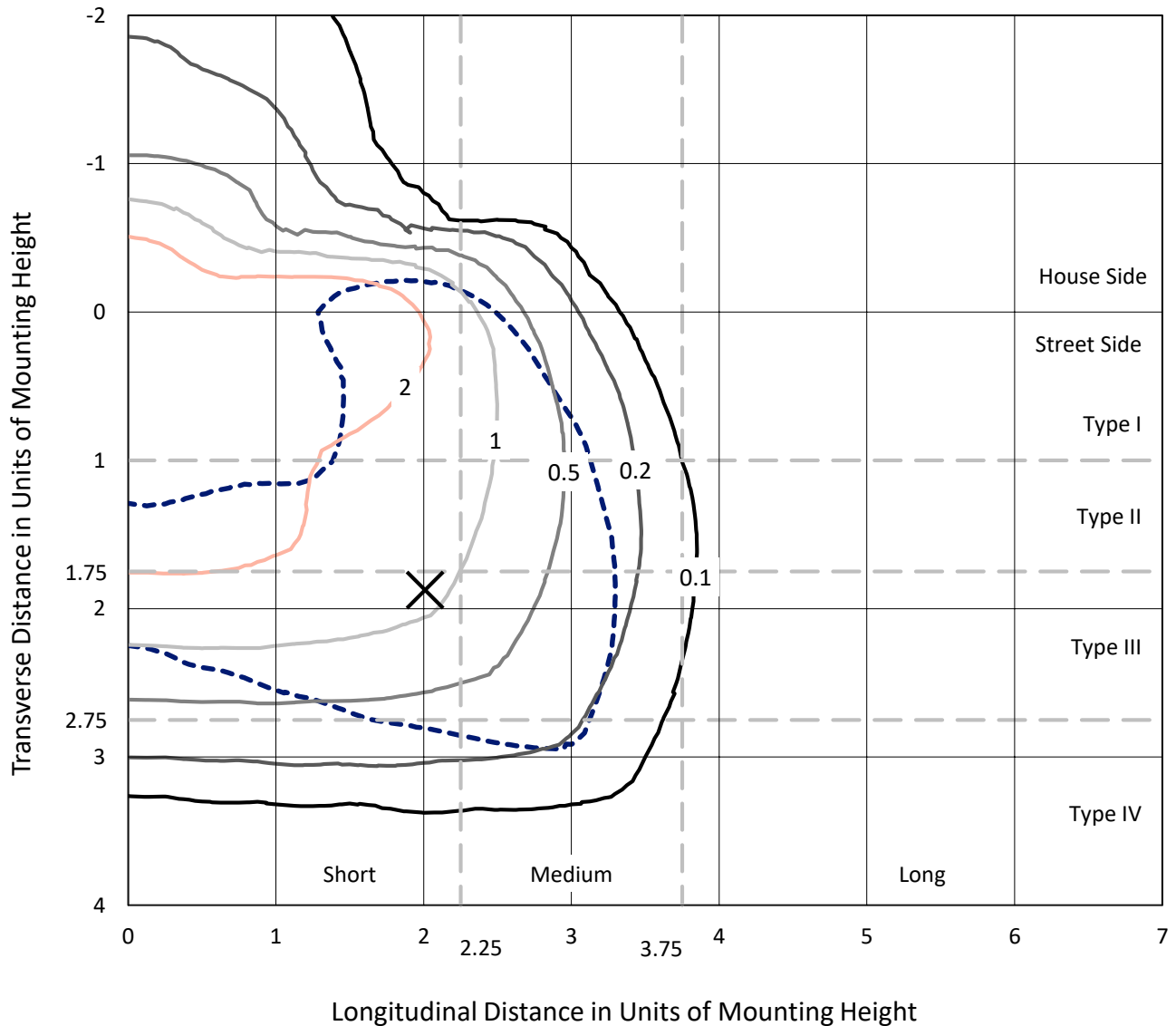
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

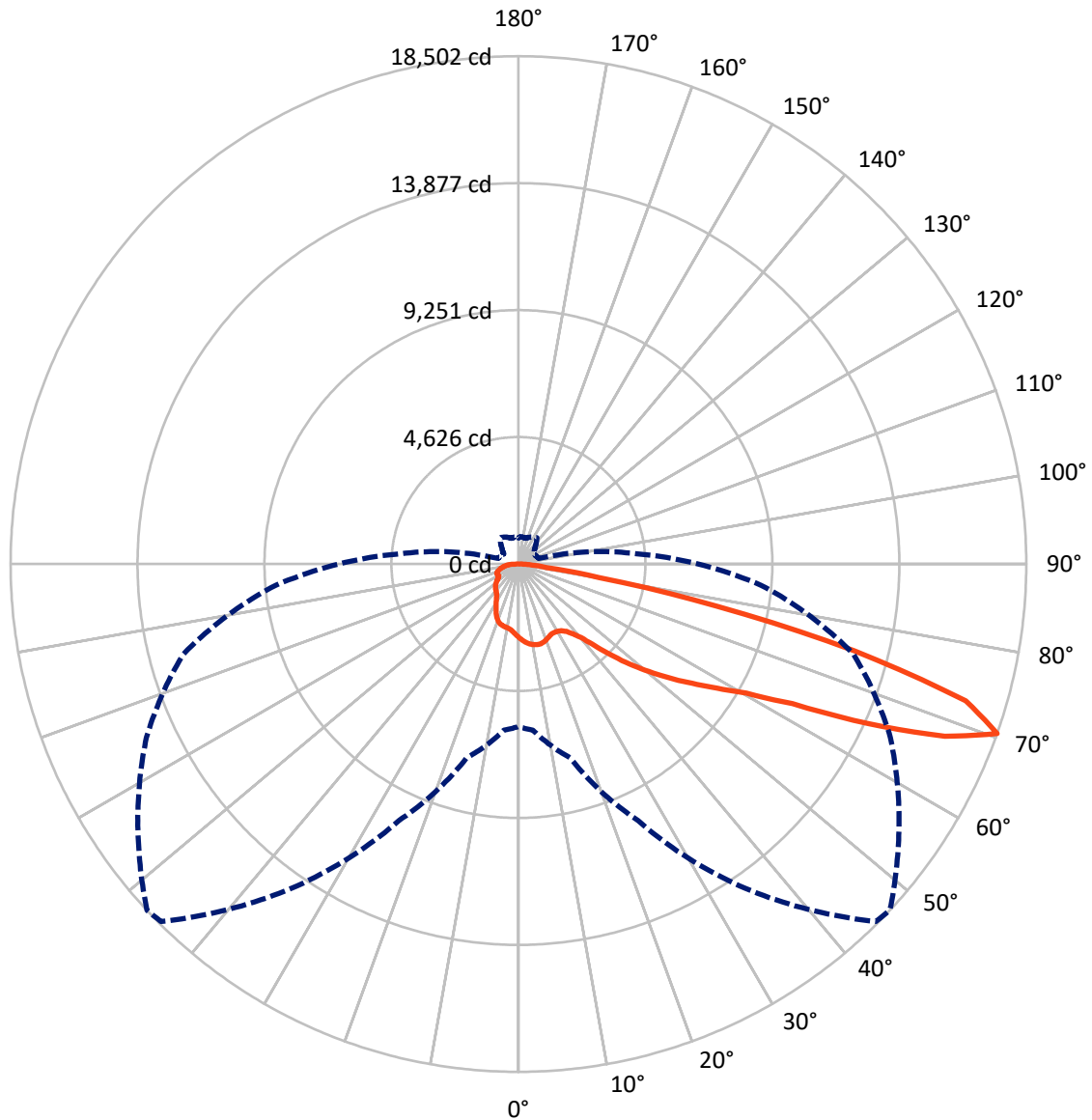
✕ Max cd
 - - - 1/2 Max cd



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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4811.0 | 0.0 | 4811.0 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 18250.3 | 0.0 | 18250.3 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | 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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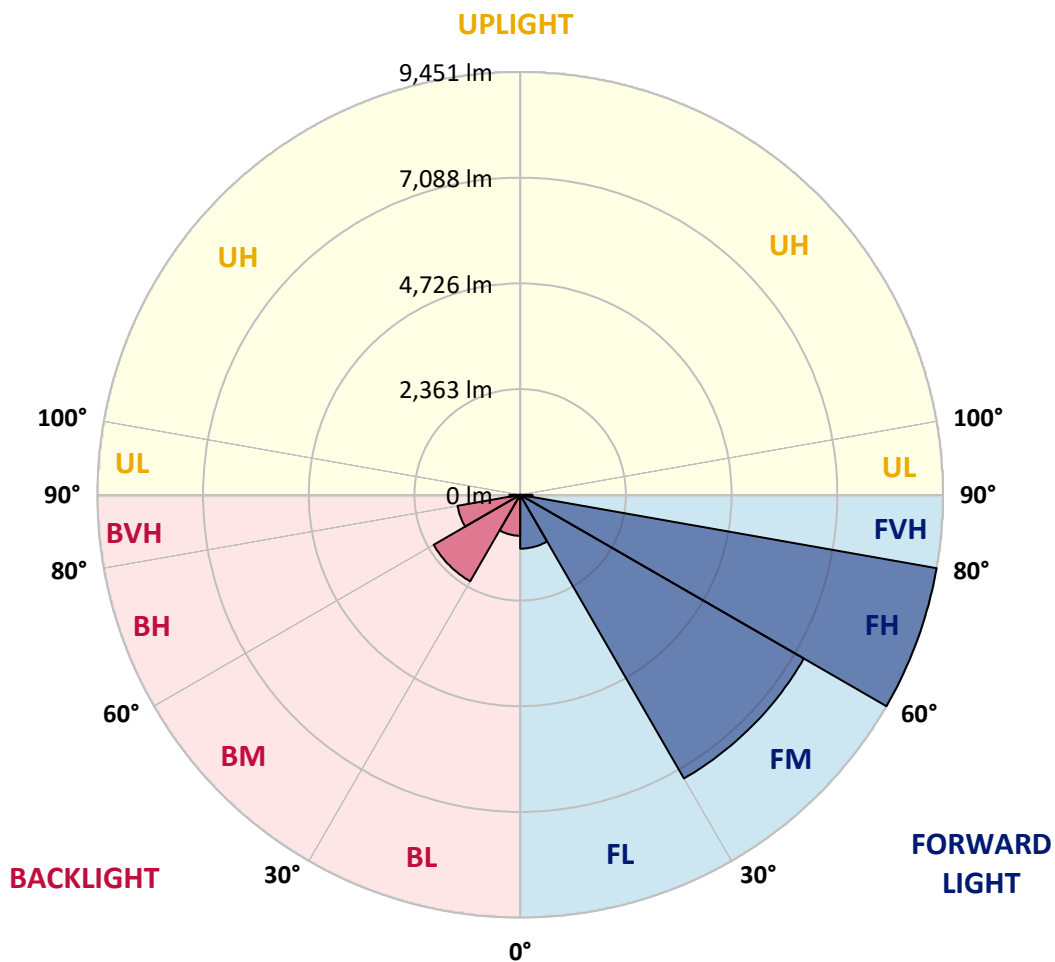
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| 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)