

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: P319097

Luminaire Tested: **GAN-SA3D-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23521 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

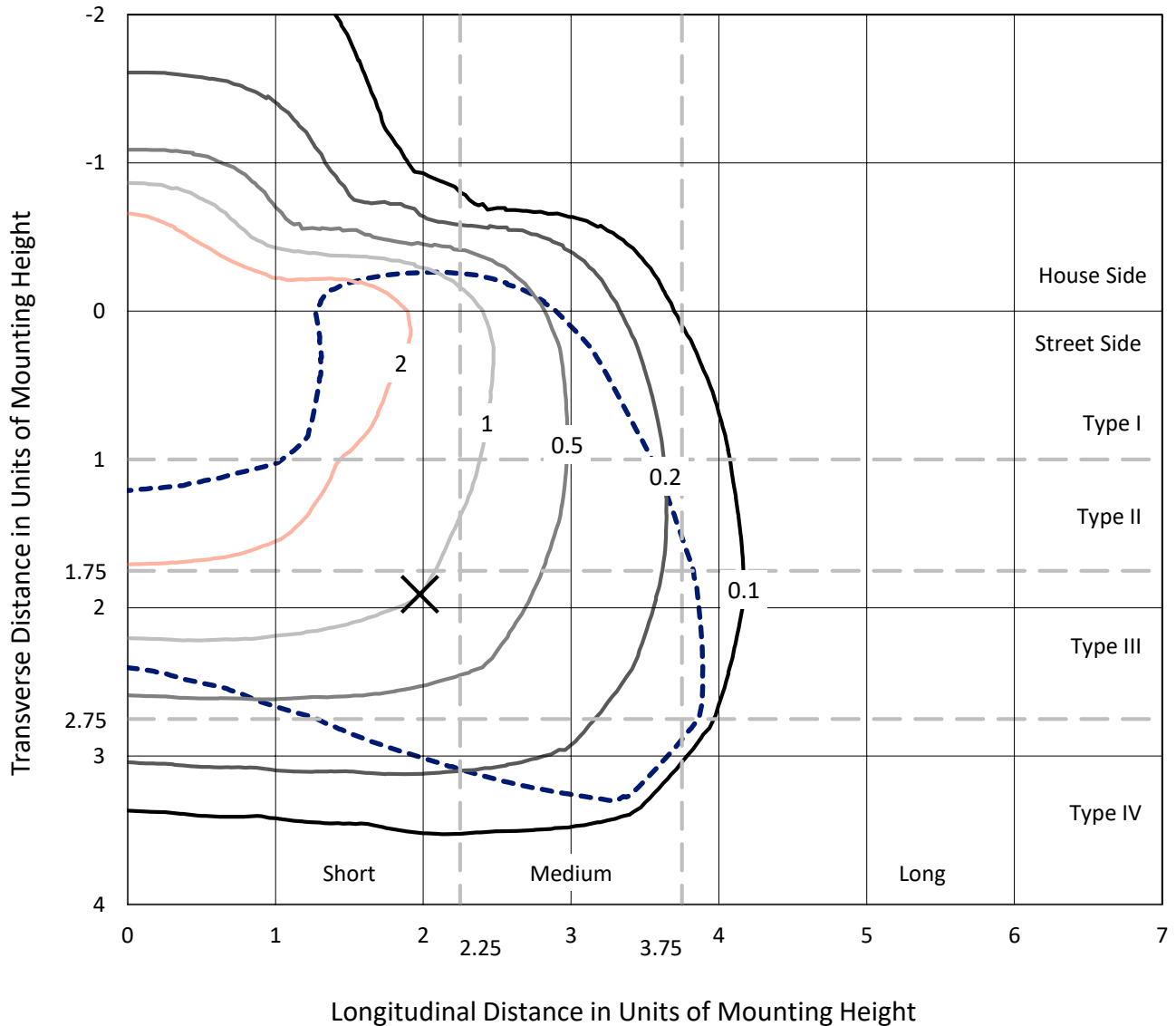
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

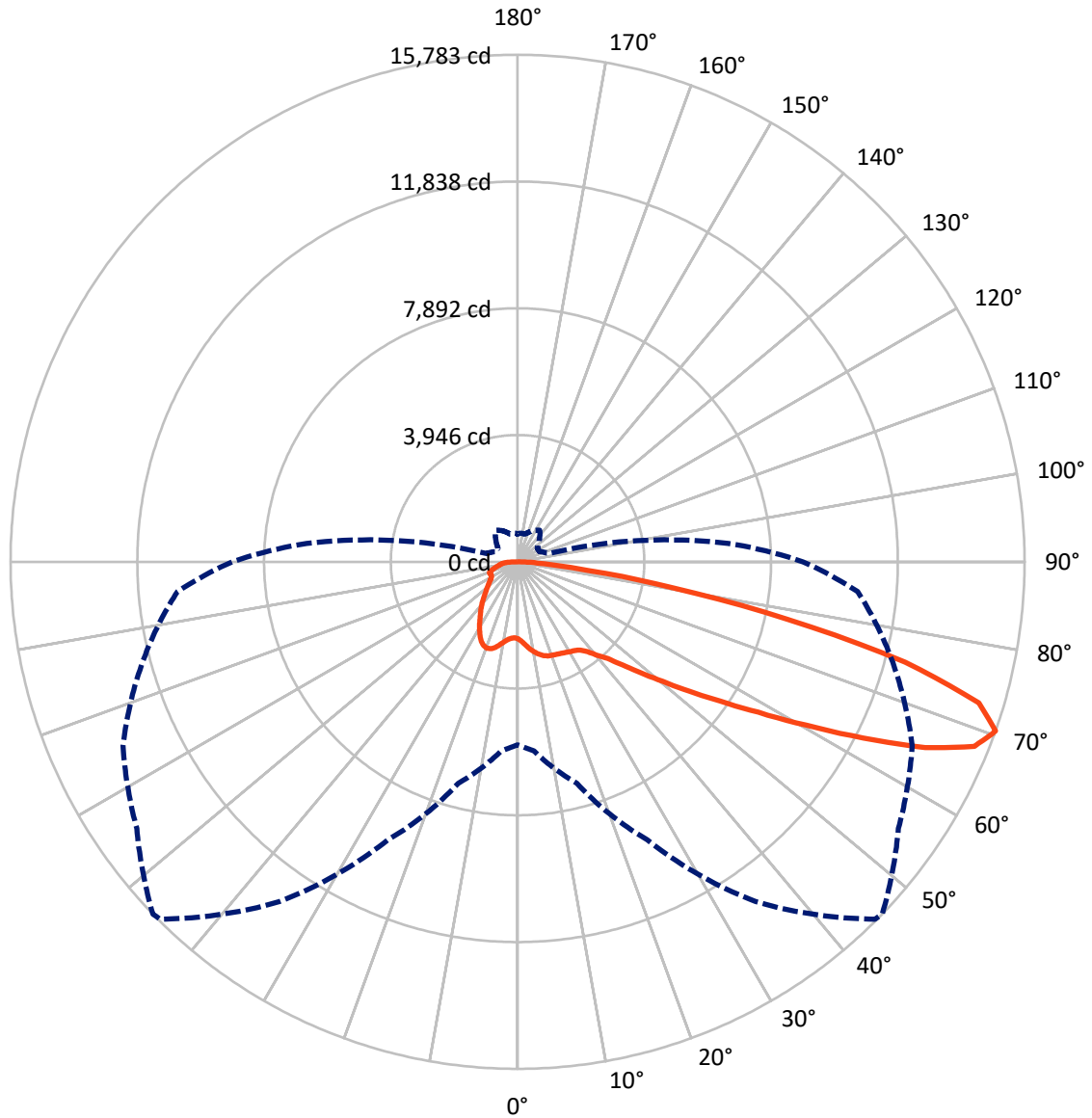
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5390.9 | 0.0 | 5390.9 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 18130.1 | 0.0 | 18130.1 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 23521.0 | 0.0 | 23521.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 244.3 | 1.0 |
| 10°-20° | 813.9 | 3.5 |
| 20°-30° | 1357.1 | 5.8 |
| 30°-40° | 1925.8 | 8.2 |
| 40°-50° | 2832.7 | 12.0 |
| 50°-60° | 4797.2 | 20.4 |
| 60°-70° | 6809.5 | 29.0 |
| 70°-80° | 4136.8 | 17.6 |
| 80°-90° | 603.7 | 2.6 |
| 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° | 23521.0 | 100.0 |
| 0°-180° | 23521.0 | 100.0 |

Coefficient of Utilization

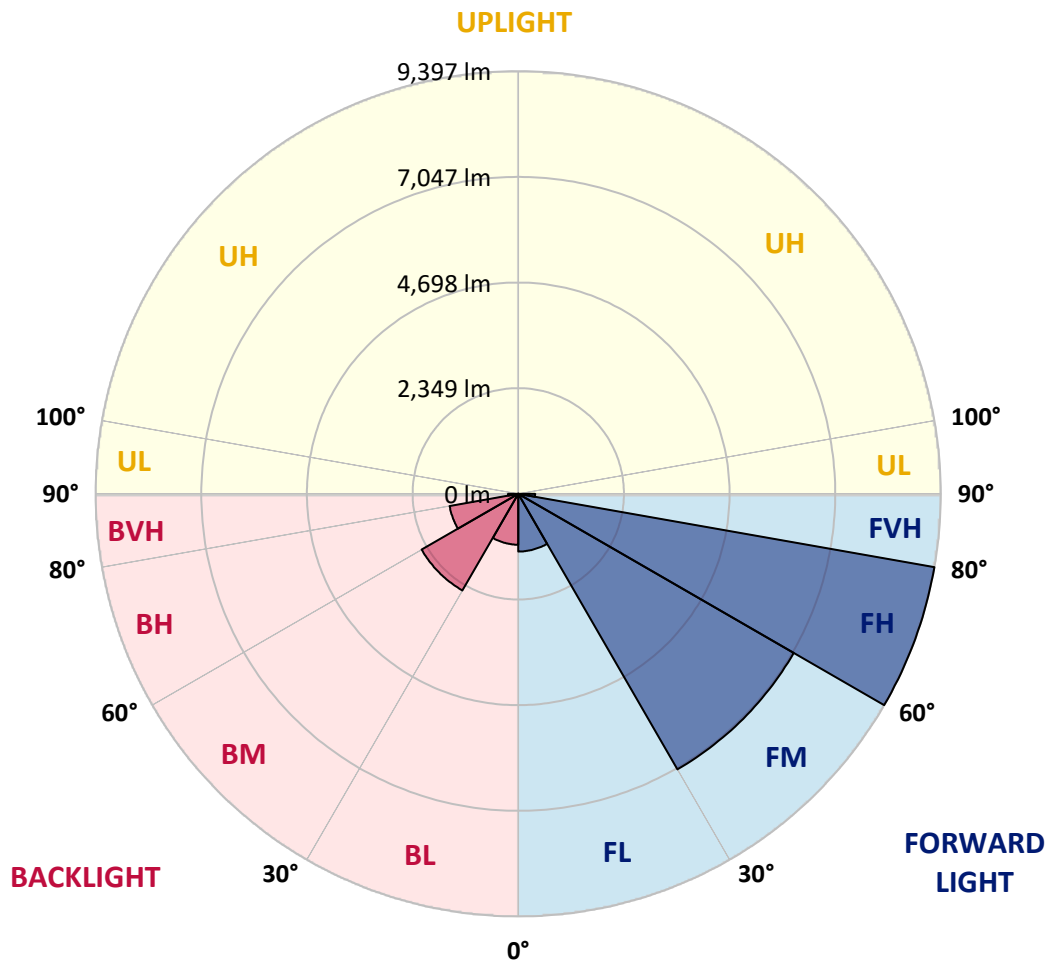


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1283.4 | 5.5 | | | |
| FM (30°-60°) | 7074.1 | 30.1 | | | |
| FH (60°-80°) | 9396.5 | 39.9 | | | G4/12000 |
| FVH (80°-90°) | 376.1 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1131.8 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2481.6 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1549.8 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 227.7 | 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° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 |
| 2.5° | 2516.3 | 2517.9 | 2521.1 | 2513.0 | 2490.5 | 2484.1 | 2481.7 | 2458.3 | 2443.0 | 2420.5 | 2401.2 |
| 5° | 2717.5 | 2719.1 | 2714.3 | 2691.7 | 2641.8 | 2604.8 | 2601.6 | 2548.5 | 2500.2 | 2448.7 | 2410.0 |
| 7.5° | 2927.6 | 2930.0 | 2914.7 | 2872.1 | 2802.0 | 2737.6 | 2733.6 | 2661.2 | 2587.9 | 2509.8 | 2451.9 |
| 10° | 3113.5 | 3103.9 | 3078.9 | 3019.4 | 2936.4 | 2857.6 | 2854.3 | 2778.7 | 2694.2 | 2600.0 | 2522.7 |
| 12.5° | 3237.5 | 3229.5 | 3197.3 | 3124.8 | 3033.8 | 2961.4 | 2955.0 | 2884.9 | 2802.8 | 2699.8 | 2607.2 |
| 15° | 3305.9 | 3311.6 | 3268.1 | 3186.0 | 3097.4 | 3036.3 | 3030.6 | 2980.7 | 2907.5 | 2803.6 | 2697.4 |
| 17.5° | 3314.8 | 3319.6 | 3277.7 | 3196.4 | 3124.0 | 3082.1 | 3079.7 | 3046.7 | 2993.6 | 2893.8 | 2782.7 |
| 20° | 3263.3 | 3266.5 | 3231.9 | 3165.1 | 3117.6 | 3104.7 | 3103.9 | 3089.4 | 3049.9 | 2961.4 | 2853.5 |
| 22.5° | 3188.4 | 3190.8 | 3165.9 | 3117.6 | 3101.5 | 3121.6 | 3127.2 | 3121.6 | 3093.4 | 3010.5 | 2909.1 |
| 25° | 3169.9 | 3168.3 | 3142.5 | 3093.4 | 3107.1 | 3149.8 | 3157.0 | 3159.4 | 3140.1 | 3067.7 | 2979.9 |
| 27.5° | 3259.2 | 3253.6 | 3204.5 | 3125.6 | 3134.5 | 3186.0 | 3195.6 | 3219.0 | 3206.9 | 3143.3 | 3060.4 |
| 30° | 3517.6 | 3508.0 | 3407.3 | 3248.0 | 3204.5 | 3231.1 | 3243.1 | 3280.2 | 3282.6 | 3229.5 | 3167.5 |
| 32.5° | 3953.9 | 3941.8 | 3761.5 | 3476.6 | 3322.8 | 3276.9 | 3288.2 | 3343.8 | 3373.5 | 3332.5 | 3265.7 |
| 35° | 4505.3 | 4491.6 | 4255.0 | 3865.4 | 3520.8 | 3364.7 | 3372.7 | 3417.0 | 3476.6 | 3418.6 | 3330.1 |
| 37.5° | 5080.0 | 5047.0 | 4819.2 | 4322.6 | 3835.6 | 3552.2 | 3552.2 | 3557.9 | 3586.0 | 3465.3 | 3405.7 |
| 40° | 5651.5 | 5618.5 | 5412.5 | 4860.3 | 4242.9 | 3847.7 | 3829.1 | 3704.4 | 3681.8 | 3578.0 | 3557.9 |
| 42.5° | 6182.8 | 6173.1 | 6051.6 | 5468.0 | 4721.0 | 4138.2 | 4112.5 | 3900.8 | 3905.6 | 3841.2 | 3842.0 |
| 45° | 6747.9 | 6747.9 | 6648.9 | 6081.4 | 5278.0 | 4605.1 | 4579.3 | 4267.8 | 4316.1 | 4286.3 | 4358.0 |
| 47.5° | 7209.1 | 7223.6 | 7209.9 | 6720.5 | 5926.0 | 5198.4 | 5151.7 | 4776.6 | 4911.8 | 5014.0 | 5222.5 |
| 50° | 7680.0 | 7702.5 | 7705.0 | 7421.6 | 6709.2 | 5903.5 | 5850.4 | 5451.9 | 5753.8 | 6046.8 | 6456.5 |
| 52.5° | 8363.4 | 8414.1 | 8212.1 | 8121.1 | 7668.7 | 6740.6 | 6688.3 | 6320.4 | 6824.3 | 7235.7 | 7941.6 |
| 55° | 8996.9 | 8952.6 | 8808.5 | 8864.9 | 8695.9 | 7693.7 | 7654.2 | 7331.5 | 8017.3 | 8551.8 | 9468.6 |
| 57.5° | 9339.8 | 9336.6 | 9481.5 | 9723.0 | 9803.5 | 8868.9 | 8835.9 | 8522.0 | 9362.3 | 9764.0 | 10902.2 |
| 60° | 9742.3 | 9747.9 | 10106.9 | 10655.1 | 10986.7 | 10332.3 | 10317.8 | 10079.6 | 10668.8 | 10895.8 | 12026.7 |
| 62.5° | 9798.6 | 9900.1 | 10518.3 | 11461.7 | 12094.3 | 12042.0 | 12074.2 | 11482.6 | 11837.6 | 11798.9 | 12866.3 |
| 65° | 9150.6 | 9284.3 | 10403.1 | 11705.6 | 13195.5 | 13911.9 | 13941.7 | 12893.7 | 12759.2 | 12570.9 | 13166.5 |
| 67.5° | 7822.5 | 8020.5 | 9236.0 | 11175.1 | 13558.5 | 15294.0 | 15335.9 | 13987.6 | 13523.9 | 12832.5 | 12443.7 |
| 70° | 5692.6 | 5912.3 | 7135.9 | 9544.3 | 12911.4 | 15735.9 | 15783.4 | 14471.4 | 13552.9 | 12087.9 | 10622.9 |
| 72.5° | 3438.7 | 3611.0 | 4619.6 | 7026.4 | 10897.4 | 14931.0 | 15015.5 | 13858.0 | 12373.7 | 10238.9 | 7844.2 |
| 75° | 1510.1 | 1622.8 | 2233.7 | 4048.9 | 7801.6 | 12353.5 | 12459.0 | 11861.7 | 10053.8 | 7440.9 | 4636.5 |
| 77.5° | 643.2 | 675.4 | 916.0 | 1758.8 | 4410.3 | 8441.5 | 8586.4 | 8666.9 | 6821.1 | 4048.9 | 1959.2 |
| 80° | 400.9 | 413.7 | 518.4 | 796.1 | 2063.9 | 4741.1 | 4897.3 | 5099.3 | 3387.2 | 1488.3 | 684.2 |
| 82.5° | 243.9 | 258.4 | 344.5 | 481.4 | 1074.6 | 2149.2 | 2224.1 | 2366.5 | 1314.5 | 643.2 | 354.2 |
| 85° | 146.5 | 157.0 | 210.9 | 304.3 | 611.8 | 845.2 | 844.4 | 933.7 | 619.0 | 413.7 | 186.7 |
| 87.5° | 70.0 | 78.1 | 112.7 | 157.8 | 308.3 | 317.1 | 297.0 | 336.5 | 375.9 | 271.3 | 94.2 |
| 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° | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 | 2396.3 |
| 2.5° | 2394.7 | 2391.5 | 2381.0 | 2373.0 | 2371.4 | 2366.5 | 2362.5 | 2364.9 | 2368.2 | 2369.0 | 2369.0 |
| 5° | 2393.9 | 2385.1 | 2371.4 | 2365.7 | 2373.0 | 2382.6 | 2394.7 | 2410.8 | 2420.5 | 2427.7 | 2432.6 |
| 7.5° | 2432.6 | 2415.6 | 2400.4 | 2397.1 | 2411.6 | 2437.4 | 2464.8 | 2498.6 | 2521.9 | 2538.0 | 2541.2 |
| 10° | 2496.9 | 2476.0 | 2460.7 | 2463.9 | 2489.7 | 2526.7 | 2565.4 | 2608.8 | 2644.3 | 2666.0 | 2667.6 |
| 12.5° | 2571.0 | 2550.9 | 2536.4 | 2550.1 | 2592.7 | 2637.8 | 2678.1 | 2715.9 | 2748.1 | 2769.8 | 2769.8 |
| 15° | 2656.3 | 2641.8 | 2624.9 | 2656.3 | 2714.3 | 2754.5 | 2771.4 | 2789.9 | 2807.7 | 2823.8 | 2820.5 |
| 17.5° | 2738.4 | 2724.7 | 2715.9 | 2752.9 | 2813.3 | 2831.8 | 2820.5 | 2806.9 | 2806.9 | 2815.7 | 2817.3 |
| 20° | 2809.3 | 2797.2 | 2802.8 | 2839.1 | 2870.4 | 2851.1 | 2809.3 | 2765.8 | 2748.1 | 2752.9 | 2757.8 |
| 22.5° | 2871.2 | 2865.6 | 2882.5 | 2899.4 | 2876.9 | 2809.3 | 2732.0 | 2673.2 | 2651.5 | 2649.9 | 2651.5 |
| 25° | 2943.7 | 2942.9 | 2963.8 | 2933.2 | 2833.4 | 2708.6 | 2604.8 | 2547.7 | 2535.6 | 2545.2 | 2561.3 |
| 27.5° | 3033.8 | 3042.7 | 3053.2 | 2941.3 | 2744.9 | 2556.5 | 2451.1 | 2411.6 | 2423.7 | 2447.0 | 2462.3 |
| 30° | 3149.0 | 3173.1 | 3150.6 | 2921.2 | 2617.7 | 2382.6 | 2282.0 | 2270.8 | 2303.8 | 2336.8 | 2352.9 |
| 32.5° | 3260.8 | 3298.7 | 3243.9 | 2868.8 | 2453.5 | 2198.3 | 2120.2 | 2117.0 | 2157.3 | 2189.5 | 2212.0 |
| 35° | 3351.0 | 3425.9 | 3314.0 | 2765.0 | 2263.5 | 2028.5 | 1971.3 | 1949.6 | 1964.1 | 2001.9 | 2027.7 |
| 37.5° | 3468.5 | 3593.3 | 3362.3 | 2606.4 | 2057.4 | 1888.4 | 1821.6 | 1771.7 | 1758.8 | 1774.1 | 1787.0 |
| 40° | 3683.4 | 3848.5 | 3384.8 | 2385.1 | 1856.2 | 1748.3 | 1680.7 | 1607.5 | 1556.8 | 1519.7 | 1520.5 |
| 42.5° | 4034.4 | 4180.9 | 3370.3 | 2116.2 | 1670.3 | 1611.5 | 1535.0 | 1450.5 | 1368.4 | 1284.7 | 1278.3 |
| 45° | 4604.3 | 4675.1 | 3326.8 | 1831.3 | 1506.9 | 1468.2 | 1396.6 | 1312.1 | 1202.6 | 1107.6 | 1098.8 |
| 47.5° | 5516.3 | 5359.3 | 3259.2 | 1582.5 | 1362.8 | 1346.7 | 1280.7 | 1183.3 | 1067.4 | 990.9 | 984.5 |
| 50° | 6760.0 | 6347.0 | 3226.2 | 1384.5 | 1235.6 | 1240.4 | 1186.5 | 1083.5 | 974.0 | 917.6 | 911.2 |
| 52.5° | 8247.5 | 7497.3 | 3289.8 | 1231.6 | 1133.4 | 1150.3 | 1110.0 | 1013.4 | 921.7 | 877.4 | 871.0 |
| 55° | 9790.6 | 8688.6 | 3358.2 | 1120.5 | 1036.8 | 1069.8 | 1056.1 | 976.4 | 893.5 | 852.4 | 846.8 |
| 57.5° | 11111.5 | 9578.1 | 3221.4 | 1030.3 | 950.6 | 1002.2 | 1014.2 | 953.1 | 879.0 | 842.0 | 835.5 |
| 60° | 11943.0 | 9936.3 | 2862.4 | 945.8 | 882.2 | 948.2 | 990.1 | 946.6 | 884.6 | 881.4 | 876.6 |
| 62.5° | 12337.4 | 9904.9 | 2323.9 | 879.0 | 839.6 | 924.9 | 1007.8 | 982.8 | 949.0 | 978.0 | 980.4 |
| 65° | 12160.3 | 9431.6 | 1730.6 | 834.7 | 809.0 | 933.7 | 1060.9 | 1051.3 | 967.5 | 996.5 | 1000.6 |
| 67.5° | 10994.8 | 8302.2 | 1281.5 | 796.1 | 775.2 | 958.7 | 1157.5 | 1073.8 | 931.3 | 952.3 | 939.4 |
| 70° | 8886.6 | 6582.1 | 988.5 | 752.6 | 740.6 | 955.5 | 1201.0 | 1060.1 | 891.9 | 896.7 | 862.1 |
| 72.5° | 6128.1 | 4488.4 | 804.1 | 712.4 | 690.6 | 871.0 | 1170.4 | 1026.3 | 858.9 | 821.9 | 776.0 |
| 75° | 3332.5 | 2409.2 | 683.4 | 670.5 | 602.9 | 764.7 | 1114.0 | 1002.2 | 829.1 | 780.0 | 754.2 |
| 77.5° | 1311.3 | 999.7 | 593.2 | 613.4 | 527.2 | 675.4 | 1051.3 | 956.3 | 788.0 | 723.6 | 710.8 |
| 80° | 535.3 | 510.3 | 491.8 | 530.5 | 453.2 | 590.8 | 975.6 | 902.3 | 738.9 | 671.3 | 645.6 |
| 82.5° | 303.5 | 317.1 | 382.4 | 418.6 | 367.9 | 544.1 | 939.4 | 858.9 | 680.2 | 601.3 | 570.7 |
| 85° | 155.4 | 185.9 | 266.4 | 300.2 | 270.5 | 462.8 | 865.3 | 751.8 | 545.8 | 460.4 | 462.8 |
| 87.5° | 74.9 | 103.8 | 168.2 | 188.4 | 175.5 | 334.9 | 646.4 | 544.9 | 425.0 | 336.5 | 326.0 |
| 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)