

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: P478688

Luminaire Tested: **IFLD-L-SA7A-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478688
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

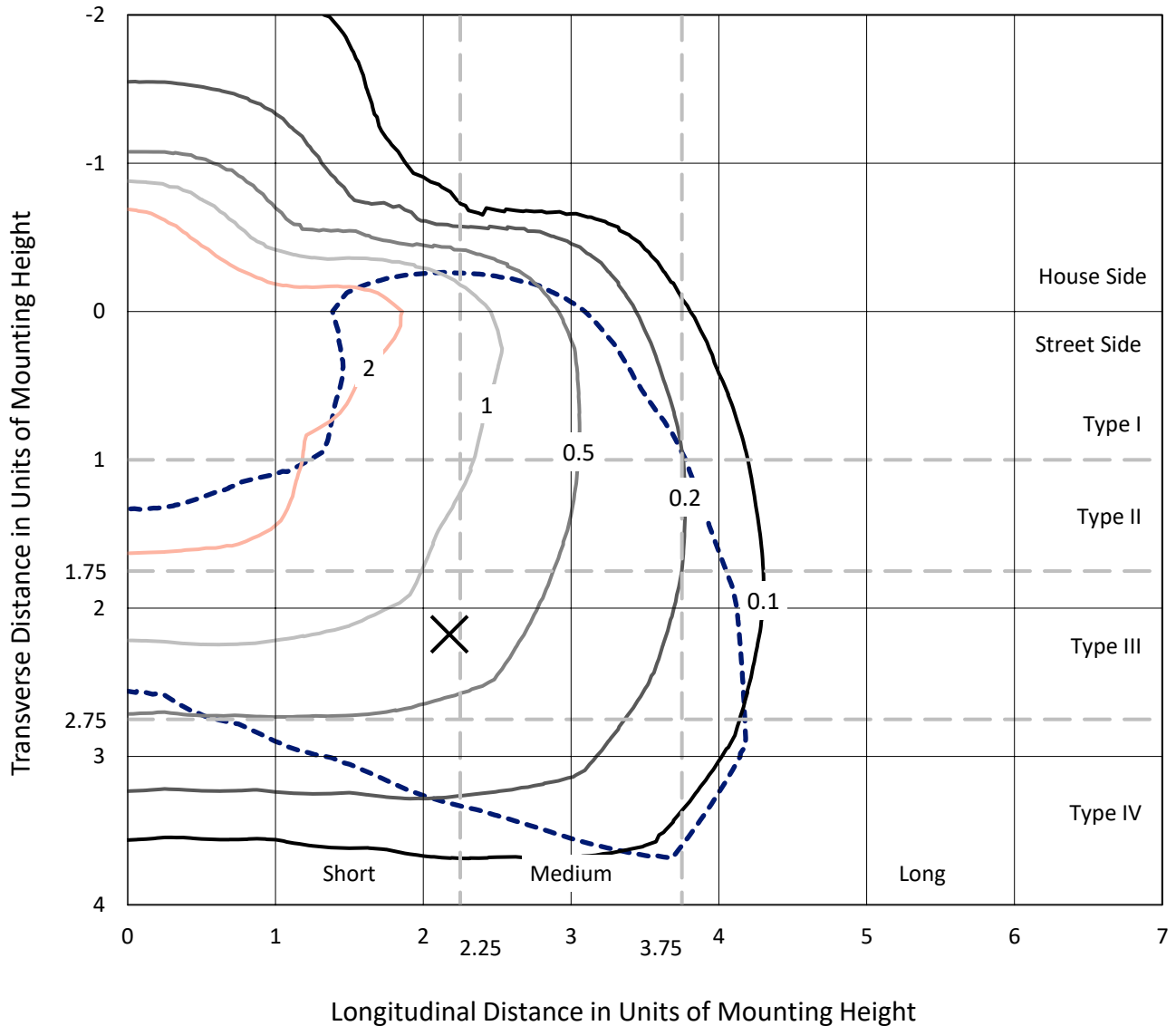
Lumens per Lamp: N/A
Luminaire Lumens: 23257 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
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

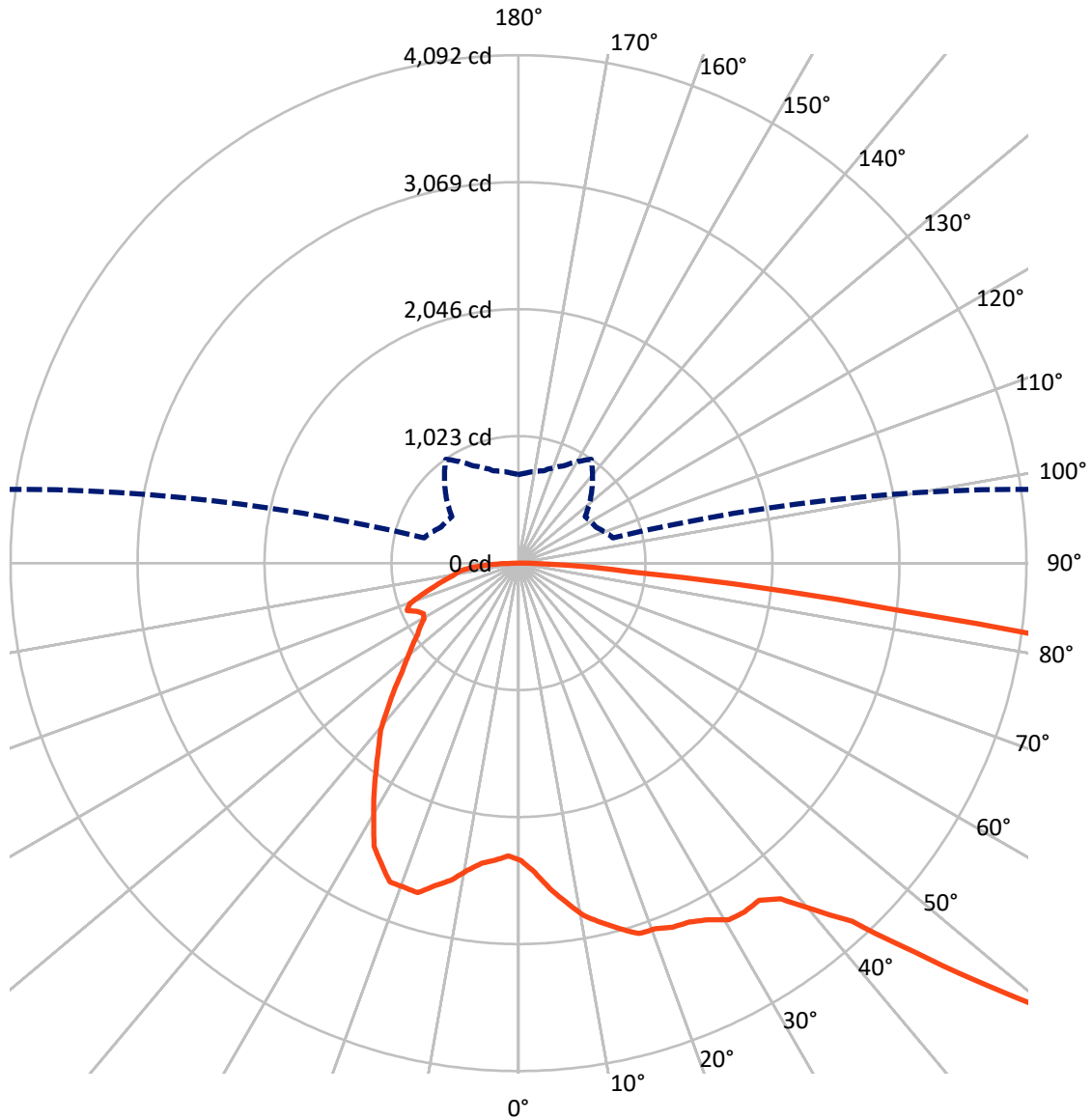
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5177.2 | 0.0 | 5177.2 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 18079.9 | 0.0 | 18079.9 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 23257.0 | 0.0 | 23257.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.1 | 1.1 |
| 10°-20° | 815.4 | 3.5 |
| 20°-30° | 1377.0 | 5.9 |
| 30°-40° | 1905.5 | 8.2 |
| 40°-50° | 2725.7 | 11.7 |
| 50°-60° | 4396.2 | 18.9 |
| 60°-70° | 6483.7 | 27.9 |
| 70°-80° | 4708.3 | 20.2 |
| 80°-90° | 600.2 | 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° | 23257.0 | 100.0 |
| 0°-180° | 23257.0 | 100.0 |

Coefficient of Utilization



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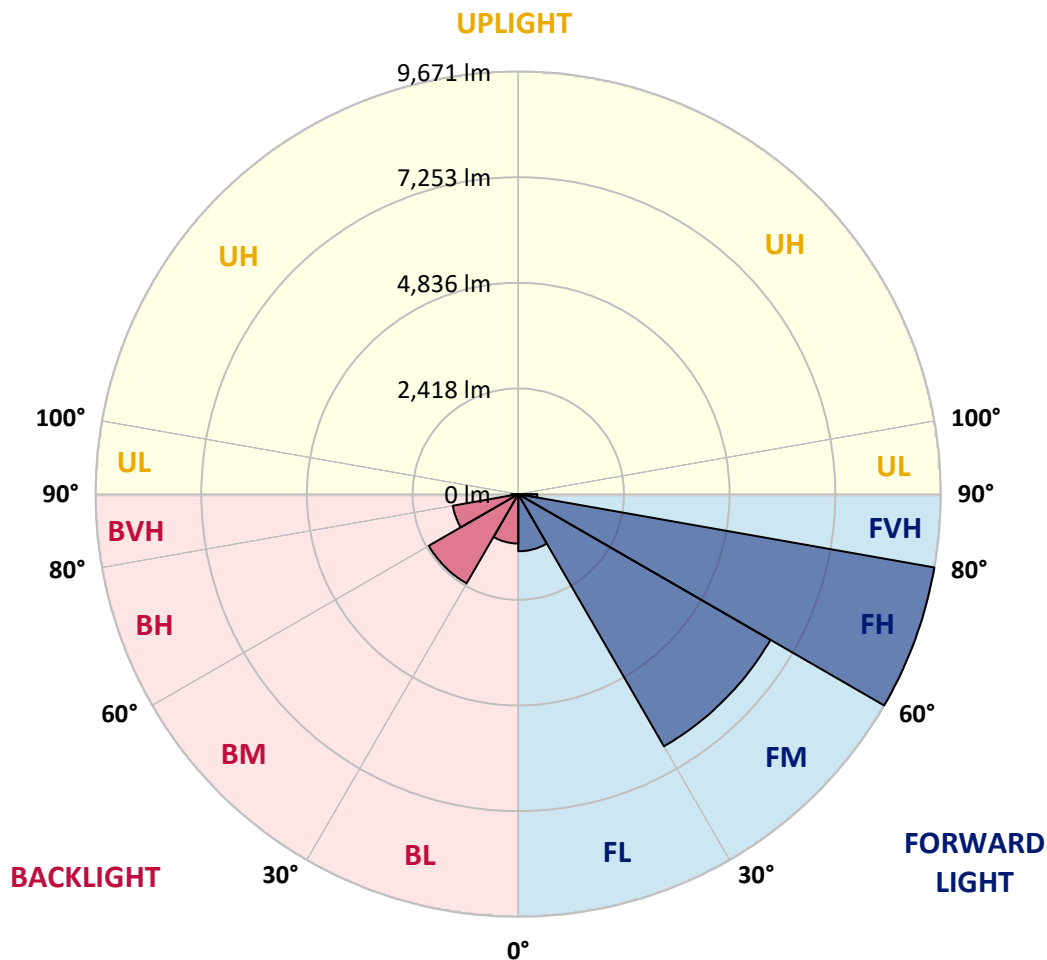
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1307.1 | 5.6 | | | |
| FM (30°-60°) | 6664.7 | 28.7 | | | |
| FH (60°-80°) | 9671.3 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 436.9 | 1.9 | | | G3/500 |
| BL (0°-30°) | 1130.4 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 2362.7 | 10.2 | B2/2500 | | |
| BH (60°-80°) | 1520.7 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 163.3 | 0.7 | | | 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° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 |
| 2.5° | 2523.0 | 2538.0 | 2523.0 | 2520.5 | 2495.4 | 2477.8 | 2492.9 | 2470.3 | 2445.2 | 2435.2 | 2412.6 |
| 5° | 2753.7 | 2756.2 | 2728.6 | 2731.1 | 2678.4 | 2623.3 | 2633.3 | 2565.6 | 2492.9 | 2465.3 | 2420.1 |
| 7.5° | 2989.4 | 2961.8 | 2921.7 | 2909.2 | 2826.4 | 2766.2 | 2758.7 | 2698.5 | 2585.7 | 2523.0 | 2460.3 |
| 10° | 3142.4 | 3152.4 | 3087.2 | 3032.1 | 2961.8 | 2889.1 | 2886.6 | 2773.7 | 2708.5 | 2615.8 | 2535.5 |
| 12.5° | 3277.8 | 3280.3 | 3225.2 | 3137.4 | 3049.6 | 2959.3 | 2971.9 | 2921.7 | 2811.4 | 2723.6 | 2643.3 |
| 15° | 3383.2 | 3368.1 | 3307.9 | 3227.7 | 3134.9 | 3064.7 | 3057.1 | 3014.5 | 2921.7 | 2849.0 | 2716.1 |
| 17.5° | 3413.3 | 3405.7 | 3345.6 | 3260.3 | 3170.0 | 3117.3 | 3137.4 | 3067.2 | 3029.6 | 2964.4 | 2836.4 |
| 20° | 3355.6 | 3338.0 | 3328.0 | 3232.7 | 3167.5 | 3162.5 | 3144.9 | 3160.0 | 3097.3 | 3037.1 | 2944.3 |
| 22.5° | 3250.3 | 3242.7 | 3237.7 | 3162.5 | 3132.4 | 3155.0 | 3185.0 | 3207.6 | 3197.6 | 3139.9 | 3034.6 |
| 25° | 3142.4 | 3177.5 | 3144.9 | 3109.8 | 3152.4 | 3210.1 | 3202.6 | 3275.3 | 3275.3 | 3257.8 | 3170.0 |
| 27.5° | 3217.6 | 3195.1 | 3170.0 | 3152.4 | 3167.5 | 3257.8 | 3252.8 | 3340.5 | 3373.1 | 3340.5 | 3240.2 |
| 30° | 3405.7 | 3383.2 | 3310.4 | 3232.7 | 3212.6 | 3310.4 | 3335.5 | 3413.3 | 3428.3 | 3348.1 | 3262.8 |
| 32.5° | 3759.4 | 3746.8 | 3631.5 | 3403.2 | 3280.3 | 3335.5 | 3348.1 | 3435.8 | 3423.3 | 3373.1 | 3338.0 |
| 35° | 4283.5 | 4240.9 | 4080.4 | 3694.2 | 3423.3 | 3368.1 | 3335.5 | 3405.7 | 3453.4 | 3428.3 | 3395.7 |
| 37.5° | 4857.8 | 4810.2 | 4612.0 | 4123.0 | 3681.6 | 3455.9 | 3430.8 | 3488.5 | 3543.7 | 3531.1 | 3463.4 |
| 40° | 5407.1 | 5407.1 | 5229.0 | 4659.7 | 4065.3 | 3669.1 | 3674.1 | 3608.9 | 3659.0 | 3636.5 | 3649.0 |
| 42.5° | 5948.8 | 5928.7 | 5856.0 | 5289.2 | 4476.6 | 4025.2 | 3944.9 | 3781.9 | 3872.2 | 3864.7 | 3882.2 |
| 45° | 6498.0 | 6482.9 | 6462.9 | 5876.0 | 5066.0 | 4506.7 | 4464.1 | 4170.7 | 4253.4 | 4218.3 | 4293.5 |
| 47.5° | 6936.9 | 6954.4 | 6954.4 | 6530.6 | 5695.5 | 5148.7 | 5086.0 | 4622.1 | 4780.1 | 4797.6 | 4815.2 |
| 50° | 7310.6 | 7318.1 | 7310.6 | 7155.1 | 6397.7 | 5883.6 | 5755.7 | 5284.2 | 5442.2 | 5580.1 | 5740.6 |
| 52.5° | 7827.2 | 7837.2 | 7802.1 | 7741.9 | 7350.7 | 6656.0 | 6513.0 | 5988.9 | 6312.4 | 6457.9 | 6746.3 |
| 55° | 8464.2 | 8389.0 | 8323.8 | 8368.9 | 8266.1 | 7506.2 | 7358.2 | 6716.2 | 7202.7 | 7395.8 | 7972.6 |
| 57.5° | 8582.1 | 8647.3 | 8812.8 | 9171.4 | 9319.4 | 8333.8 | 8248.5 | 7609.0 | 8208.4 | 8376.4 | 9339.5 |
| 60° | 8998.4 | 8890.5 | 9296.8 | 10074.3 | 10239.8 | 9412.2 | 9324.4 | 8587.1 | 9209.0 | 9384.6 | 10600.9 |
| 62.5° | 9271.7 | 9266.7 | 9868.6 | 10791.5 | 11167.7 | 10530.7 | 10352.7 | 9858.6 | 10290.0 | 10460.5 | 11975.3 |
| 65° | 9191.5 | 9264.2 | 10332.6 | 11212.9 | 11942.7 | 11802.2 | 11699.4 | 10952.0 | 11521.3 | 11506.3 | 12870.6 |
| 67.5° | 8459.2 | 8664.8 | 10039.2 | 11516.3 | 13096.3 | 13352.1 | 13319.5 | 12489.4 | 12522.0 | 12203.5 | 13269.4 |
| 70° | 7443.5 | 7373.3 | 8797.8 | 11200.3 | 13673.1 | 15190.4 | 15182.9 | 13633.0 | 13422.3 | 12356.5 | 12125.7 |
| 72° | 5718.0 | 5640.3 | 6811.5 | 9617.8 | 13369.7 | 15925.2 | 16150.9 | 14425.5 | 13412.3 | 11722.0 | 10016.6 |
| 72.5° | 5191.4 | 5123.7 | 6289.8 | 9053.6 | 13033.6 | 16115.8 | 16010.5 | 14455.6 | 13307.0 | 11423.5 | 9357.0 |
| 75° | 2390.0 | 2312.3 | 3142.4 | 5542.5 | 10167.1 | 14280.0 | 14638.7 | 13527.7 | 11621.7 | 9093.7 | 5605.2 |
| 77.5° | 712.2 | 689.7 | 1010.7 | 2237.1 | 5908.6 | 10520.7 | 10658.6 | 10207.2 | 8113.1 | 4980.7 | 2079.1 |
| 80° | 396.2 | 398.8 | 521.6 | 837.6 | 2598.2 | 6081.7 | 6578.2 | 6304.9 | 3980.1 | 1645.2 | 692.2 |
| 82.5° | 220.7 | 233.2 | 326.0 | 496.6 | 1193.8 | 2791.3 | 3004.5 | 2896.6 | 1439.5 | 772.4 | 378.7 |
| 85° | 115.4 | 120.4 | 170.5 | 265.8 | 677.1 | 882.8 | 907.9 | 973.1 | 747.4 | 526.7 | 203.1 |
| 87.5° | 45.1 | 45.1 | 62.7 | 110.3 | 250.8 | 273.4 | 245.8 | 298.4 | 428.9 | 341.1 | 100.3 |
| 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° | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 | 2395.1 |
| 2.5° | 2432.7 | 2412.6 | 2410.1 | 2377.5 | 2387.5 | 2359.9 | 2362.5 | 2357.4 | 2359.9 | 2354.9 | 2342.4 |
| 5° | 2420.1 | 2405.1 | 2362.5 | 2390.0 | 2365.0 | 2400.1 | 2427.7 | 2417.6 | 2425.1 | 2422.6 | 2425.1 |
| 7.5° | 2437.7 | 2417.6 | 2412.6 | 2397.6 | 2420.1 | 2435.2 | 2457.8 | 2520.5 | 2515.4 | 2523.0 | 2538.0 |
| 10° | 2490.4 | 2467.8 | 2452.7 | 2475.3 | 2462.8 | 2510.4 | 2535.5 | 2568.1 | 2625.8 | 2628.3 | 2598.2 |
| 12.5° | 2593.2 | 2578.1 | 2548.0 | 2553.1 | 2595.7 | 2610.7 | 2625.8 | 2645.8 | 2683.5 | 2675.9 | 2703.5 |
| 15° | 2711.1 | 2678.4 | 2660.9 | 2655.9 | 2665.9 | 2683.5 | 2681.0 | 2701.0 | 2721.1 | 2738.6 | 2731.1 |
| 17.5° | 2796.3 | 2753.7 | 2758.7 | 2783.8 | 2781.3 | 2776.3 | 2743.7 | 2733.6 | 2743.7 | 2753.7 | 2748.7 |
| 20° | 2884.1 | 2889.1 | 2851.5 | 2828.9 | 2818.9 | 2768.7 | 2743.7 | 2713.6 | 2683.5 | 2698.5 | 2721.1 |
| 22.5° | 2994.4 | 2971.9 | 2916.7 | 2849.0 | 2798.8 | 2768.7 | 2691.0 | 2638.3 | 2638.3 | 2653.4 | 2645.8 |
| 25° | 3119.8 | 3072.2 | 2976.9 | 2854.0 | 2791.3 | 2663.4 | 2608.2 | 2600.7 | 2580.6 | 2603.2 | 2613.2 |
| 27.5° | 3217.6 | 3175.0 | 3044.6 | 2836.4 | 2663.4 | 2560.6 | 2528.0 | 2517.9 | 2550.5 | 2553.1 | 2593.2 |
| 30° | 3257.8 | 3245.2 | 3054.6 | 2791.3 | 2533.0 | 2367.5 | 2347.4 | 2392.5 | 2427.7 | 2480.3 | 2482.8 |
| 32.5° | 3310.4 | 3315.5 | 3069.7 | 2686.0 | 2362.5 | 2196.9 | 2166.8 | 2222.0 | 2322.3 | 2365.0 | 2397.6 |
| 35° | 3398.2 | 3423.3 | 3057.1 | 2555.6 | 2181.9 | 2023.9 | 2018.9 | 2033.9 | 2131.7 | 2207.0 | 2249.6 |
| 37.5° | 3551.2 | 3546.2 | 3054.6 | 2400.1 | 2038.9 | 1873.4 | 1833.3 | 1838.3 | 1903.5 | 1966.2 | 1958.7 |
| 40° | 3756.9 | 3736.8 | 3047.1 | 2196.9 | 1853.3 | 1745.5 | 1677.8 | 1652.7 | 1647.7 | 1630.1 | 1635.2 |
| 42.5° | 4037.7 | 3997.6 | 3044.6 | 1991.3 | 1685.3 | 1570.0 | 1522.3 | 1457.1 | 1409.4 | 1319.2 | 1324.2 |
| 45° | 4429.0 | 4358.7 | 2979.4 | 1798.2 | 1519.8 | 1424.5 | 1351.8 | 1304.1 | 1201.3 | 1088.4 | 1088.4 |
| 47.5° | 5033.4 | 4805.2 | 2981.9 | 1585.0 | 1359.3 | 1281.5 | 1231.4 | 1148.6 | 1038.3 | 948.0 | 938.0 |
| 50° | 5923.7 | 5402.0 | 2896.6 | 1417.0 | 1228.9 | 1176.2 | 1123.5 | 1028.2 | 922.9 | 860.2 | 867.7 |
| 52.5° | 7072.3 | 6292.3 | 2894.1 | 1266.5 | 1126.1 | 1088.4 | 1030.8 | 945.5 | 867.7 | 827.6 | 812.6 |
| 55° | 8441.6 | 7471.1 | 2984.4 | 1143.6 | 1020.7 | 1000.7 | 975.6 | 905.4 | 830.1 | 795.0 | 792.5 |
| 57.5° | 9843.5 | 8622.2 | 3129.9 | 1055.8 | 930.4 | 945.5 | 927.9 | 872.8 | 812.6 | 772.4 | 767.4 |
| 60° | 11090.0 | 9535.1 | 2836.4 | 950.5 | 850.2 | 882.8 | 907.9 | 860.2 | 827.6 | 825.1 | 807.5 |
| 62.5° | 12030.4 | 9926.3 | 2156.8 | 870.2 | 807.5 | 867.7 | 935.5 | 965.5 | 950.5 | 970.6 | 973.1 |
| 65° | 12374.0 | 9690.6 | 1484.7 | 827.6 | 774.9 | 902.8 | 1053.3 | 1043.3 | 955.5 | 917.9 | 938.0 |
| 67.5° | 11892.5 | 8735.1 | 1101.0 | 777.5 | 752.4 | 975.6 | 1121.0 | 995.6 | 862.7 | 857.7 | 842.7 |
| 70° | 10227.3 | 7403.4 | 897.8 | 724.8 | 714.8 | 935.5 | 1090.9 | 922.9 | 812.6 | 780.0 | 764.9 |
| 72° | 8148.2 | 5765.7 | 787.5 | 687.2 | 654.6 | 835.1 | 1020.7 | 865.2 | 769.9 | 729.8 | 712.2 |
| 72.5° | 7438.5 | 5344.4 | 772.4 | 669.6 | 642.0 | 812.6 | 985.6 | 847.7 | 759.9 | 724.8 | 697.2 |
| 75° | 4080.4 | 2736.1 | 679.6 | 614.4 | 541.7 | 702.2 | 912.9 | 795.0 | 717.3 | 667.1 | 662.1 |
| 77.5° | 1517.3 | 1060.8 | 586.9 | 544.2 | 469.0 | 606.9 | 830.1 | 754.9 | 652.1 | 589.4 | 576.8 |
| 80° | 581.8 | 559.3 | 479.0 | 458.9 | 393.7 | 531.7 | 764.9 | 677.1 | 554.2 | 491.6 | 471.5 |
| 82.5° | 353.6 | 326.0 | 363.6 | 358.6 | 300.9 | 484.0 | 719.8 | 634.5 | 491.6 | 398.8 | 386.2 |
| 85° | 193.1 | 193.1 | 253.3 | 243.3 | 210.7 | 386.2 | 544.2 | 421.3 | 311.0 | 255.8 | 260.8 |
| 87.5° | 85.3 | 100.3 | 135.4 | 127.9 | 115.4 | 218.2 | 265.8 | 223.2 | 155.5 | 105.3 | 112.9 |
| 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)