

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: P192382

Luminaire Tested: **GAN-AF-04-LED-U-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192382
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 26156 lumens
Efficiency: N/A
Efficacy: 101.4 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): 258
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

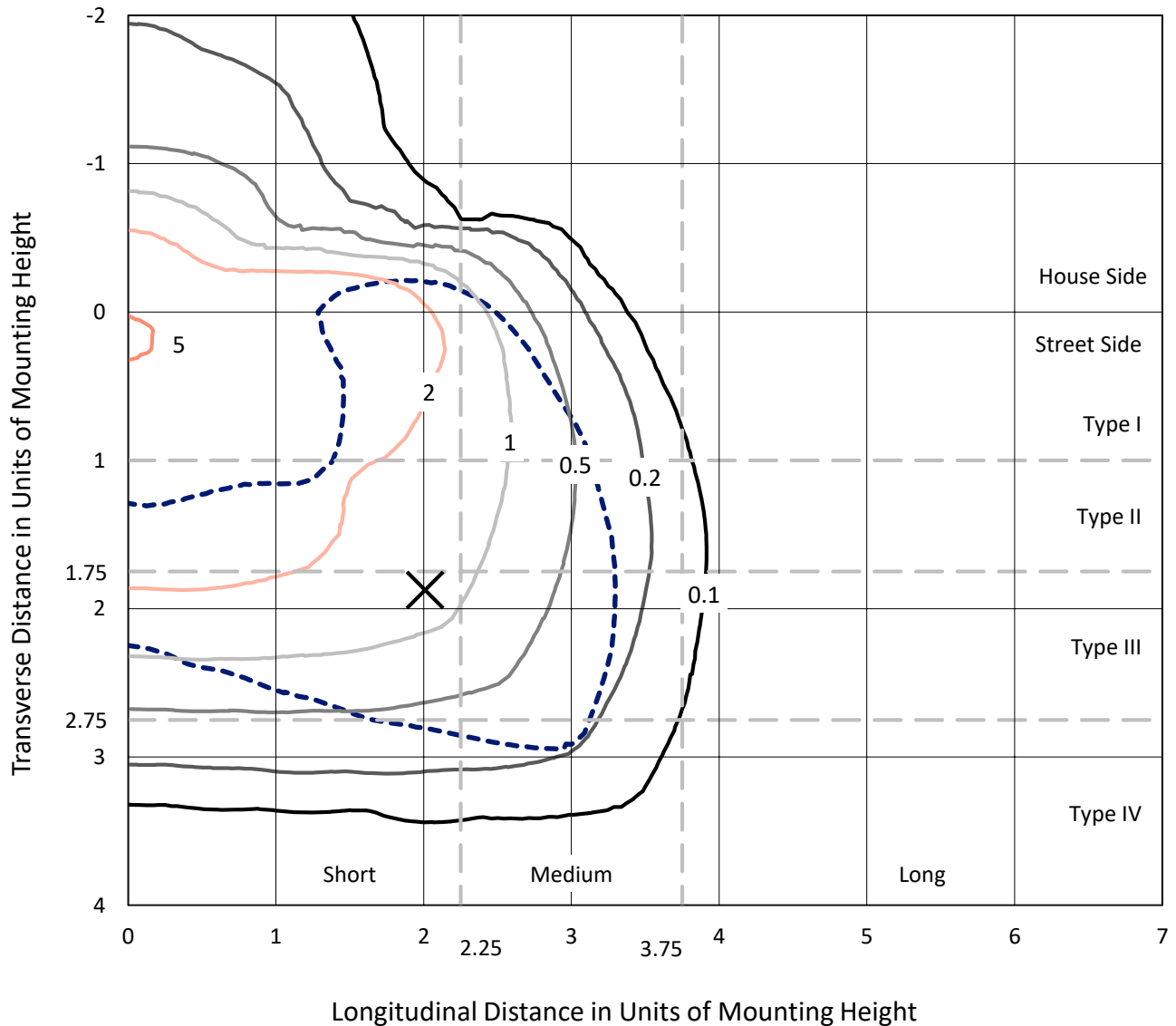


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Iso-Footcandle Lines of Horizontal Illumination

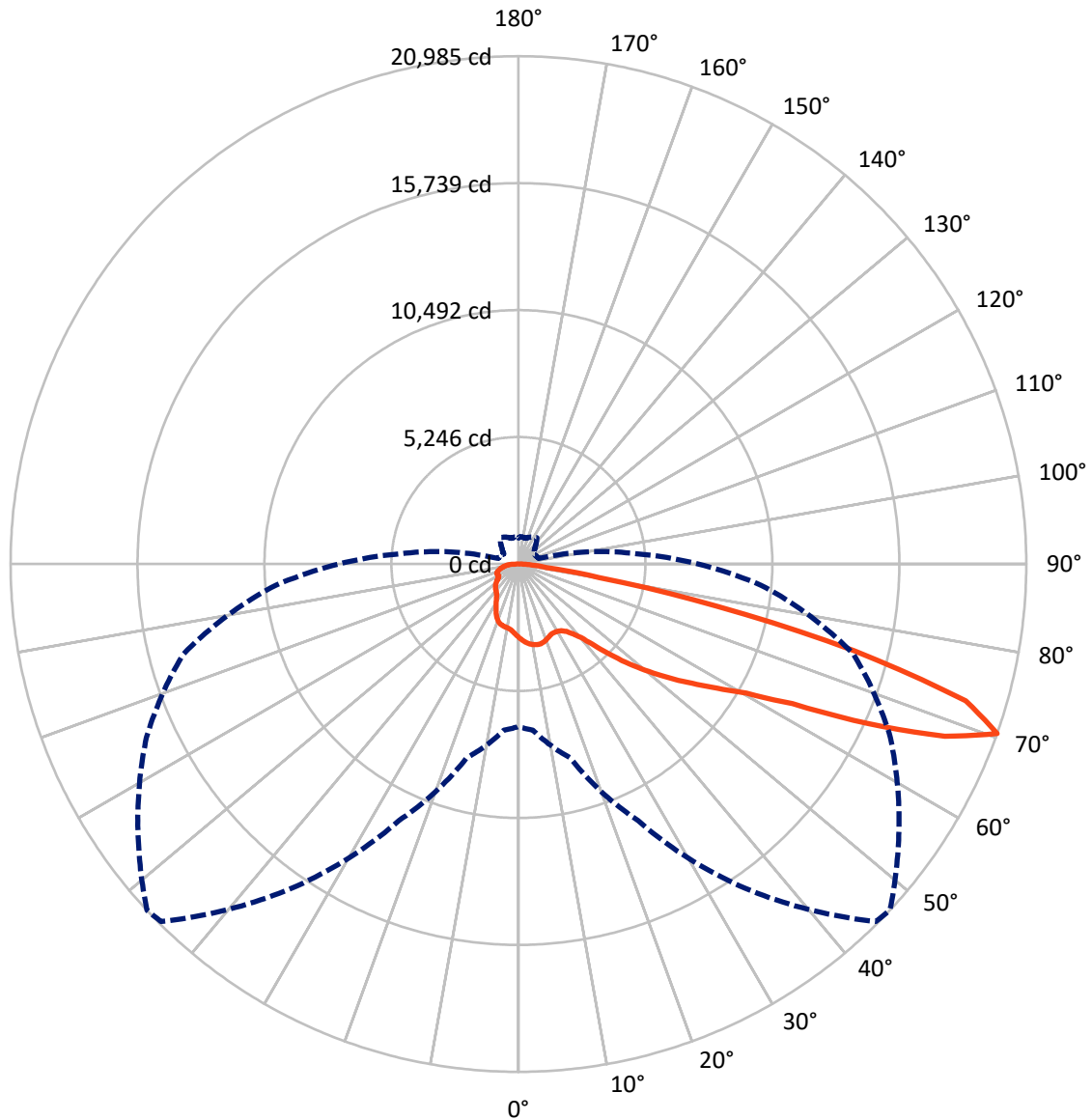
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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 | 5456.6 | 0.0 | 5456.6 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 20699.3 | 0.0 | 20699.3 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 26156.0 | 0.0 | 26156.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.8 | 1.1 |
| 10°-20° | 853.1 | 3.3 |
| 20°-30° | 1259.8 | 4.8 |
| 30°-40° | 1831.1 | 7.0 |
| 40°-50° | 3295.4 | 12.6 |
| 50°-60° | 5708.9 | 21.8 |
| 60°-70° | 8148.3 | 31.2 |
| 70°-80° | 4182.9 | 16.0 |
| 80°-90° | 585.6 | 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° | 26156.0 | 100.0 |
| 0°-180° | 26156.0 | 100.0 |



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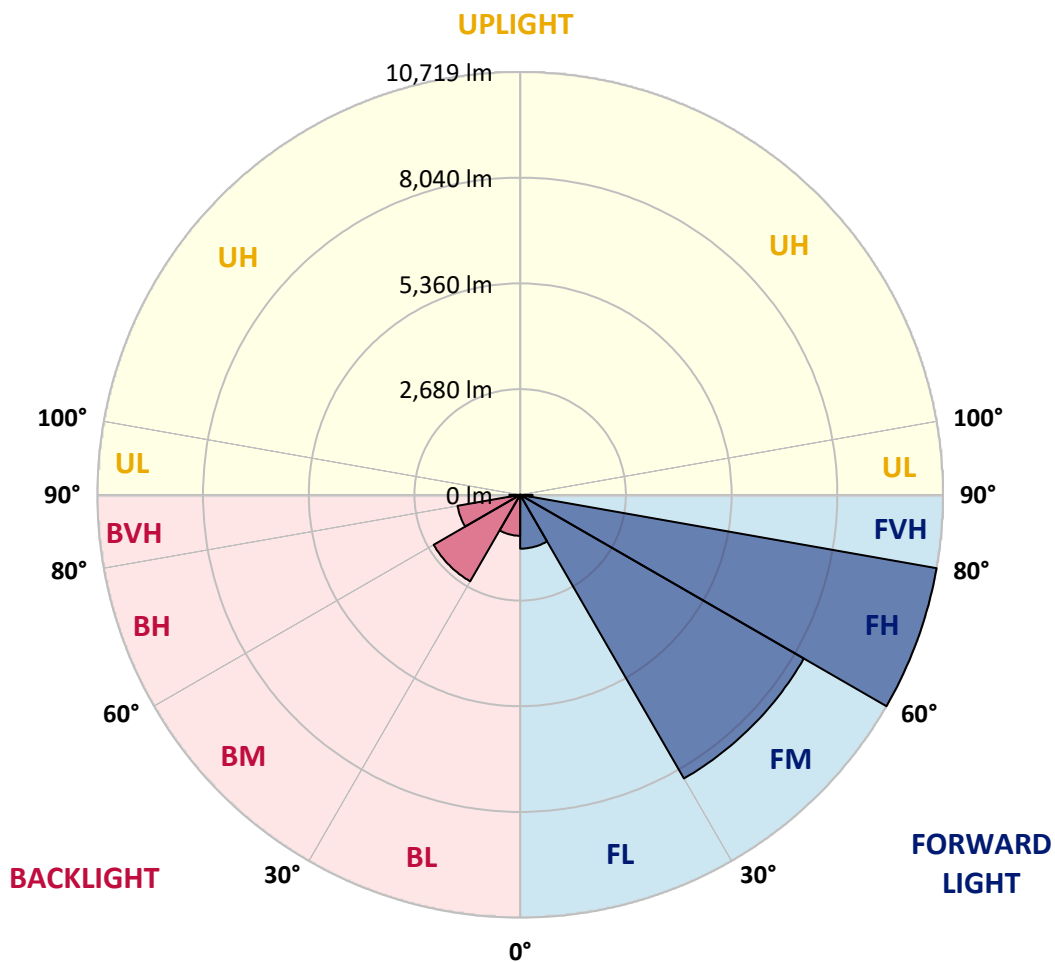
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1364.8 | 5.2 | | | |
| FM | (30°-60°) | 8302.6 | 31.7 | | | |
| FH | (60°-80°) | 10719.4 | 41.0 | | | G4/12000 |
| FVH | (80°-90°) | 312.5 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1039.0 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 2532.8 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 1611.7 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 273.1 | 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° | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 |
| 2.5° | 3213.1 | 3206.7 | 3204.2 | 3199.1 | 3192.7 | 3160.9 | 3154.5 | 3131.6 | 3099.8 | 3066.7 | 3032.4 |
| 5° | 3424.3 | 3423.0 | 3409.0 | 3383.6 | 3342.9 | 3272.9 | 3256.3 | 3200.3 | 3125.3 | 3052.7 | 2980.2 |
| 7.5° | 3610.1 | 3598.6 | 3571.9 | 3521.0 | 3449.7 | 3354.3 | 3331.4 | 3253.8 | 3150.7 | 3051.5 | 2953.5 |
| 10° | 3746.2 | 3739.9 | 3681.3 | 3611.4 | 3518.5 | 3412.8 | 3386.1 | 3299.6 | 3186.3 | 3060.4 | 2938.2 |
| 12.5° | 3823.9 | 3811.1 | 3743.7 | 3659.7 | 3549.0 | 3445.9 | 3419.2 | 3331.4 | 3204.2 | 3060.4 | 2916.6 |
| 15° | 3818.8 | 3809.9 | 3742.4 | 3650.8 | 3538.8 | 3448.5 | 3424.3 | 3336.5 | 3200.3 | 3047.6 | 2888.6 |
| 17.5° | 3717.0 | 3720.8 | 3663.5 | 3573.2 | 3481.6 | 3412.8 | 3391.2 | 3309.8 | 3174.9 | 3022.2 | 2855.5 |
| 20° | 3538.8 | 3556.6 | 3518.5 | 3438.3 | 3387.4 | 3340.3 | 3326.3 | 3257.6 | 3135.4 | 2985.3 | 2819.9 |
| 22.5° | 3360.7 | 3377.2 | 3361.9 | 3294.5 | 3286.9 | 3258.9 | 3251.2 | 3201.6 | 3101.1 | 2962.4 | 2798.2 |
| 25° | 3229.6 | 3244.9 | 3242.3 | 3183.8 | 3206.7 | 3205.4 | 3199.1 | 3174.9 | 3093.4 | 2962.4 | 2802.0 |
| 27.5° | 3194.0 | 3199.1 | 3194.0 | 3140.5 | 3172.3 | 3197.8 | 3192.7 | 3188.9 | 3116.4 | 2999.3 | 2850.4 |
| 30° | 3316.1 | 3308.5 | 3269.1 | 3160.9 | 3190.2 | 3225.8 | 3220.7 | 3223.2 | 3185.1 | 3096.0 | 2958.6 |
| 32.5° | 3803.5 | 3769.1 | 3644.4 | 3340.3 | 3262.7 | 3281.8 | 3284.3 | 3326.3 | 3332.7 | 3244.9 | 3126.5 |
| 35° | 4532.6 | 4494.5 | 4332.9 | 3821.3 | 3487.9 | 3421.7 | 3421.7 | 3485.4 | 3523.5 | 3458.7 | 3387.4 |
| 37.5° | 5305.0 | 5263.1 | 5176.5 | 4488.1 | 3961.3 | 3664.8 | 3658.4 | 3703.0 | 3757.7 | 3773.0 | 3790.8 |
| 40° | 6183.1 | 6138.5 | 6162.7 | 5236.3 | 4621.7 | 4086.0 | 3995.6 | 3963.8 | 4111.4 | 4209.4 | 4351.9 |
| 42.5° | 7143.8 | 7123.4 | 7132.4 | 6069.8 | 5373.8 | 4715.9 | 4587.4 | 4423.2 | 4601.4 | 4775.7 | 5074.7 |
| 45° | 8033.3 | 8051.1 | 8042.2 | 6961.8 | 6211.1 | 5484.5 | 5348.3 | 5030.2 | 5204.5 | 5503.6 | 5990.9 |
| 47.5° | 8812.1 | 8738.3 | 8852.8 | 7936.6 | 7148.9 | 6344.7 | 6176.7 | 5750.4 | 5927.3 | 6296.3 | 7120.9 |
| 50° | 9757.5 | 9747.3 | 9579.4 | 9237.1 | 8282.7 | 7208.7 | 6988.6 | 6494.8 | 6769.7 | 7282.5 | 8544.8 |
| 52.5° | 10751.3 | 10566.8 | 10412.9 | 10248.7 | 9485.2 | 8094.4 | 7824.6 | 7236.7 | 7759.7 | 8404.9 | 10280.5 |
| 55° | 10954.9 | 10872.2 | 11063.1 | 11339.2 | 10644.5 | 9014.4 | 8700.1 | 8166.9 | 8874.4 | 9687.5 | 12282.2 |
| 57.5° | 11390.1 | 11388.9 | 11783.3 | 12275.8 | 11838.1 | 9990.4 | 9673.5 | 9290.5 | 10127.8 | 11157.3 | 14407.2 |
| 60° | 11684.1 | 11766.8 | 12499.8 | 13455.4 | 13010.0 | 11117.8 | 10826.4 | 10587.2 | 11553.0 | 12800.1 | 16387.2 |
| 62.5° | 11838.1 | 11950.0 | 12950.2 | 13933.9 | 14666.8 | 12994.8 | 12703.4 | 12358.5 | 13438.9 | 14601.9 | 17545.2 |
| 65° | 11198.0 | 11418.1 | 12880.2 | 14347.4 | 16117.5 | 16037.3 | 15906.2 | 15300.5 | 15796.8 | 16025.9 | 17126.6 |
| 67.5° | 9426.7 | 9651.9 | 11354.5 | 13961.9 | 17153.3 | 18971.7 | 18999.7 | 17965.1 | 17247.5 | 16148.0 | 14399.6 |
| 70° | 6716.3 | 6893.1 | 8301.8 | 11705.7 | 16364.3 | 20889.3 | 20984.8 | 19193.1 | 16958.6 | 14320.7 | 10060.4 |
| 72.5° | 3188.9 | 3297.0 | 4630.6 | 7618.5 | 12985.9 | 19139.7 | 19324.2 | 17625.4 | 14420.0 | 10602.5 | 5488.3 |
| 75° | 1172.0 | 1205.1 | 1565.2 | 3241.1 | 7531.9 | 14114.6 | 14332.2 | 12634.6 | 9559.0 | 5278.3 | 2090.7 |
| 77.5° | 702.4 | 724.1 | 878.0 | 1367.9 | 2962.4 | 8067.6 | 8389.6 | 6871.5 | 4177.6 | 1964.7 | 1028.2 |
| 80° | 491.2 | 506.5 | 629.9 | 851.3 | 1399.7 | 3074.4 | 3360.7 | 2804.6 | 1664.4 | 1243.2 | 748.2 |
| 82.5° | 332.1 | 339.8 | 442.8 | 575.2 | 930.2 | 1098.2 | 1184.7 | 1247.0 | 1122.3 | 925.1 | 474.6 |
| 85° | 217.6 | 225.2 | 300.3 | 379.2 | 591.7 | 567.5 | 580.3 | 734.2 | 819.5 | 628.6 | 263.4 |
| 87.5° | 124.7 | 129.8 | 180.7 | 202.3 | 290.1 | 240.5 | 243.0 | 386.8 | 524.3 | 423.7 | 160.3 |
| 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° | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 | 3034.9 |
| 2.5° | 3023.5 | 3006.9 | 2970.0 | 2947.1 | 2925.5 | 2920.4 | 2911.5 | 2910.2 | 2908.9 | 2908.9 | 2905.1 |
| 5° | 2956.0 | 2928.0 | 2870.8 | 2838.9 | 2812.2 | 2809.7 | 2808.4 | 2814.8 | 2817.3 | 2819.9 | 2816.0 |
| 7.5° | 2912.8 | 2874.6 | 2803.3 | 2757.5 | 2725.7 | 2718.1 | 2730.8 | 2760.1 | 2779.1 | 2786.8 | 2783.0 |
| 10° | 2886.0 | 2838.9 | 2756.2 | 2706.6 | 2679.9 | 2676.1 | 2692.6 | 2727.0 | 2766.4 | 2781.7 | 2780.4 |
| 12.5° | 2855.5 | 2802.0 | 2714.2 | 2662.1 | 2646.8 | 2654.4 | 2676.1 | 2707.9 | 2748.6 | 2772.8 | 2774.0 |
| 15° | 2824.9 | 2762.6 | 2672.2 | 2626.4 | 2620.1 | 2630.3 | 2650.6 | 2674.8 | 2706.6 | 2730.8 | 2733.3 |
| 17.5° | 2788.0 | 2723.1 | 2632.8 | 2585.7 | 2580.6 | 2585.7 | 2587.0 | 2599.7 | 2620.1 | 2643.0 | 2649.3 |
| 20° | 2748.6 | 2682.4 | 2588.3 | 2541.2 | 2518.3 | 2497.9 | 2475.0 | 2477.6 | 2483.9 | 2506.8 | 2511.9 |
| 22.5° | 2720.6 | 2654.4 | 2553.9 | 2489.0 | 2427.9 | 2366.8 | 2321.0 | 2314.7 | 2317.2 | 2336.3 | 2342.7 |
| 25° | 2723.1 | 2653.2 | 2545.0 | 2433.0 | 2299.4 | 2201.4 | 2140.3 | 2130.2 | 2128.9 | 2142.9 | 2151.8 |
| 27.5° | 2772.8 | 2702.8 | 2578.1 | 2375.8 | 2159.4 | 2014.4 | 1949.5 | 1941.8 | 1931.7 | 1935.5 | 1945.7 |
| 30° | 2883.5 | 2818.6 | 2658.3 | 2317.2 | 2008.0 | 1831.1 | 1763.7 | 1756.0 | 1742.1 | 1735.7 | 1743.3 |
| 32.5° | 3064.2 | 3010.7 | 2775.3 | 2261.2 | 1856.6 | 1674.6 | 1605.9 | 1589.4 | 1580.4 | 1572.8 | 1579.2 |
| 35° | 3364.5 | 3341.6 | 2931.8 | 2200.2 | 1723.0 | 1553.7 | 1491.4 | 1465.9 | 1453.2 | 1467.2 | 1477.4 |
| 37.5° | 3835.3 | 3848.0 | 3136.7 | 2104.7 | 1619.9 | 1473.6 | 1421.4 | 1392.1 | 1373.0 | 1384.5 | 1395.9 |
| 40° | 4502.1 | 4511.0 | 3363.2 | 1969.8 | 1530.8 | 1426.5 | 1370.5 | 1343.8 | 1317.0 | 1296.7 | 1295.4 |
| 42.5° | 5377.6 | 5287.2 | 3585.9 | 1823.5 | 1427.7 | 1397.2 | 1334.9 | 1301.8 | 1261.0 | 1205.1 | 1193.6 |
| 45° | 6415.9 | 6099.1 | 3755.1 | 1655.5 | 1311.9 | 1361.6 | 1295.4 | 1249.6 | 1186.0 | 1124.9 | 1118.5 |
| 47.5° | 7612.1 | 6970.7 | 3837.9 | 1481.2 | 1203.8 | 1309.4 | 1247.0 | 1174.5 | 1094.3 | 1063.8 | 1060.0 |
| 50° | 9072.9 | 8005.3 | 3877.3 | 1311.9 | 1109.6 | 1240.7 | 1177.1 | 1091.8 | 1024.4 | 1018.0 | 1014.2 |
| 52.5° | 10736.1 | 9249.8 | 3890.0 | 1173.2 | 1032.0 | 1151.6 | 1119.8 | 1037.1 | 983.6 | 988.7 | 988.7 |
| 55° | 12476.9 | 10535.0 | 3717.0 | 1072.7 | 960.7 | 1060.0 | 1081.6 | 1015.5 | 970.9 | 991.3 | 998.9 |
| 57.5° | 14075.1 | 11673.9 | 3172.3 | 995.1 | 893.3 | 990.0 | 1067.6 | 1035.8 | 1005.3 | 1088.0 | 1093.1 |
| 60° | 15301.8 | 12347.1 | 2369.4 | 925.1 | 843.7 | 965.8 | 1104.5 | 1113.4 | 1121.1 | 1318.3 | 1345.0 |
| 62.5° | 15558.8 | 12123.1 | 1628.8 | 870.4 | 820.8 | 986.2 | 1172.0 | 1173.2 | 1164.3 | 1301.8 | 1318.3 |
| 65° | 14379.2 | 10706.8 | 1184.7 | 839.8 | 801.7 | 1023.1 | 1229.2 | 1202.5 | 1144.0 | 1248.3 | 1217.8 |
| 67.5° | 11419.4 | 8066.4 | 986.2 | 816.9 | 773.7 | 1020.5 | 1290.3 | 1229.2 | 1132.5 | 1222.9 | 1173.2 |
| 70° | 7412.3 | 4877.5 | 878.0 | 797.9 | 740.6 | 972.2 | 1325.9 | 1226.7 | 1099.4 | 1137.6 | 1079.1 |
| 72.5° | 3616.4 | 2181.1 | 805.5 | 769.9 | 706.2 | 904.7 | 1324.7 | 1203.8 | 1065.1 | 1062.5 | 1030.7 |
| 75° | 1415.0 | 998.9 | 739.3 | 727.9 | 647.7 | 828.4 | 1289.0 | 1170.7 | 1024.4 | 983.6 | 972.2 |
| 77.5° | 828.4 | 712.6 | 655.3 | 665.5 | 577.7 | 752.0 | 1236.9 | 1113.4 | 968.4 | 920.0 | 907.3 |
| 80° | 603.2 | 533.2 | 558.6 | 575.2 | 493.7 | 675.7 | 1166.9 | 1043.4 | 906.0 | 930.2 | 912.4 |
| 82.5° | 386.8 | 343.6 | 453.0 | 469.6 | 411.0 | 598.1 | 1090.5 | 969.6 | 818.2 | 743.1 | 725.3 |
| 85° | 197.2 | 217.6 | 337.2 | 357.6 | 316.9 | 491.2 | 997.6 | 871.7 | 719.0 | 618.4 | 628.6 |
| 87.5° | 110.7 | 148.9 | 215.1 | 240.5 | 224.0 | 377.9 | 809.3 | 719.0 | 586.6 | 477.2 | 419.9 |
| 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)