

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: P192273

Luminaire Tested: **GAN-AF-05-LED-U-T3R-7050-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T3R-7050-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20041 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

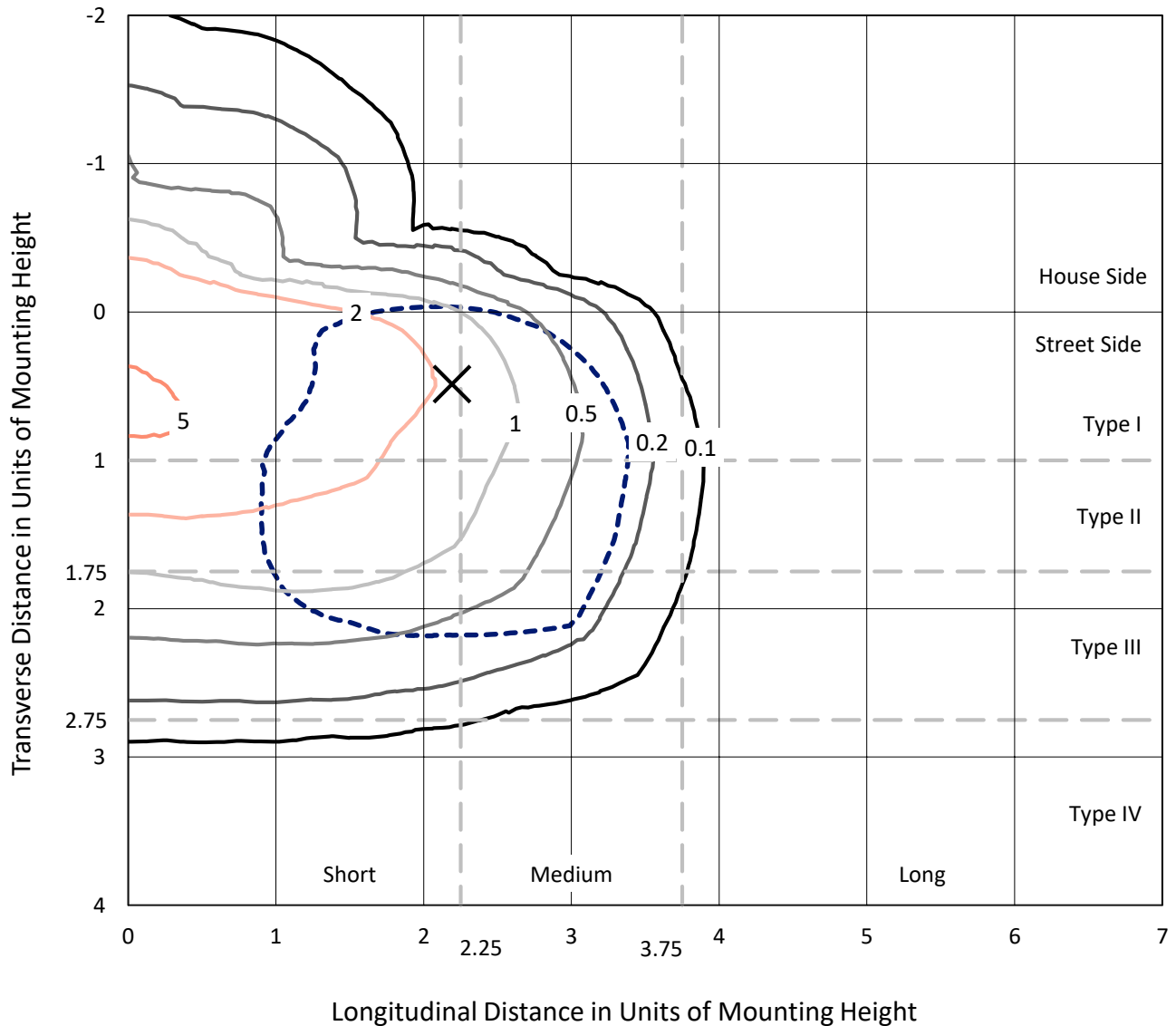


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

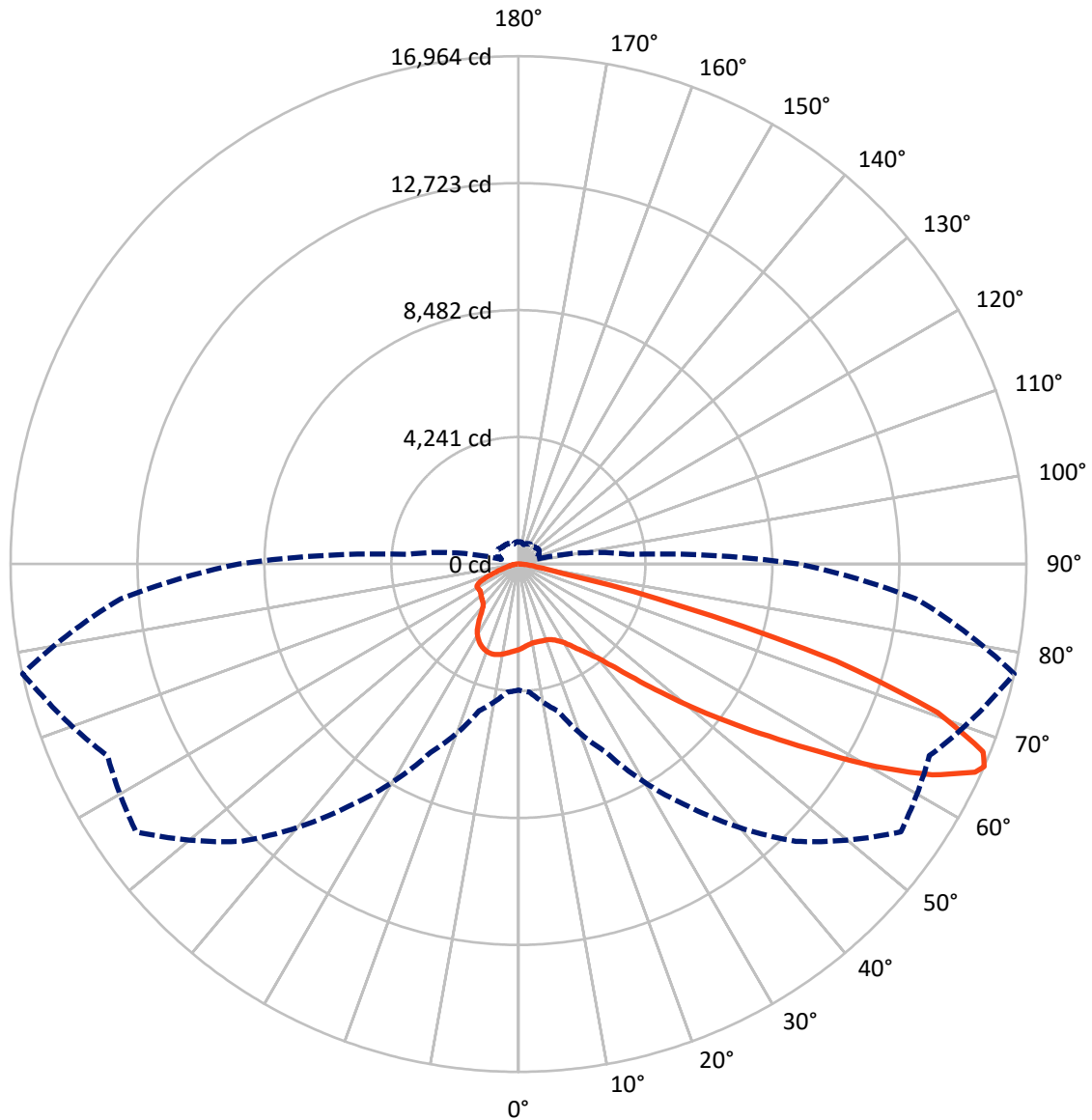


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3423.9 | 0.0 | 3423.9 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 16617.1 | 0.0 | 16617.1 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 20041.0 | 0.0 | 20041.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 255.2 | 1.3 |
| 10°-20° | 719.8 | 3.6 |
| 20°-30° | 1228.5 | 6.1 |
| 30°-40° | 1966.6 | 9.8 |
| 40°-50° | 3038.2 | 15.2 |
| 50°-60° | 4309.3 | 21.5 |
| 60°-70° | 5764.6 | 28.8 |
| 70°-80° | 2503.5 | 12.5 |
| 80°-90° | 255.3 | 1.3 |
| 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° | 20041.0 | 100.0 |
| 0°-180° | 20041.0 | 100.0 |

Coefficient of Utilization



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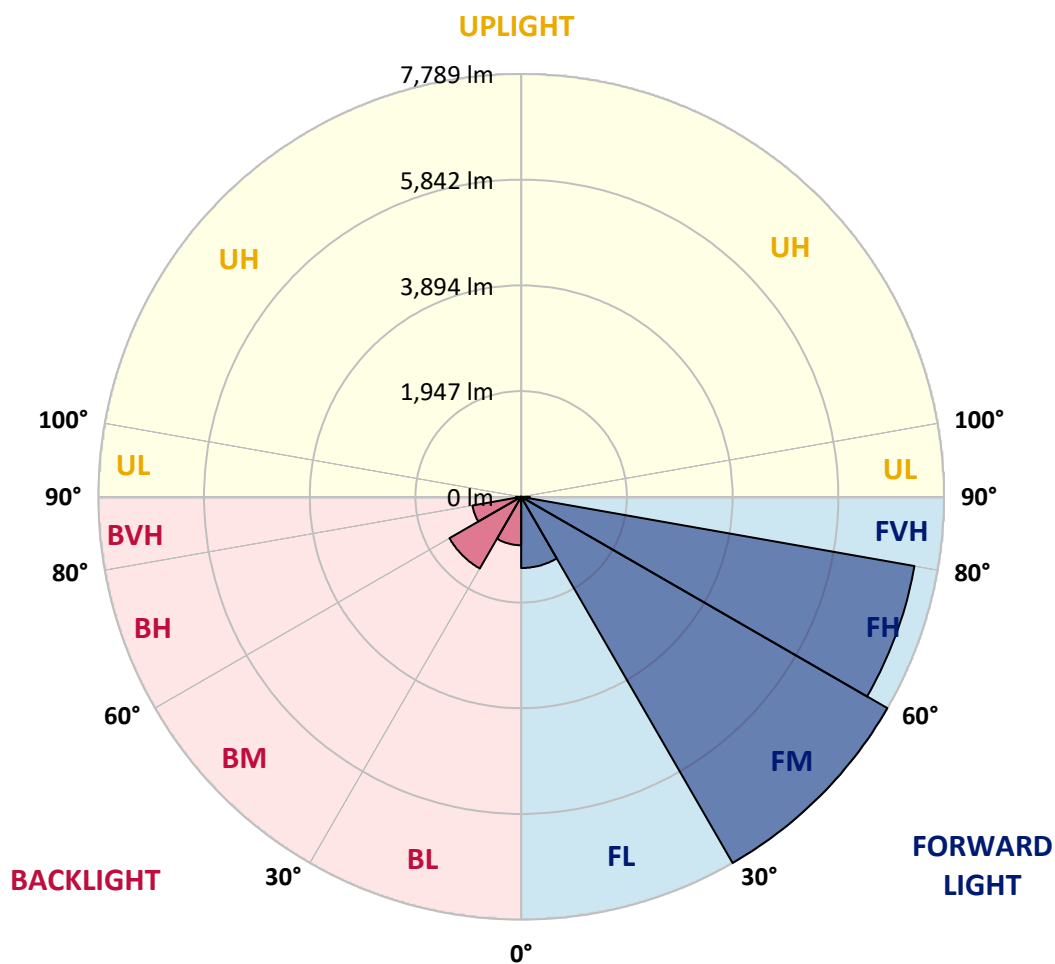
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1311.8 | 6.5 | | | |
| FM (30°-60°) | 7789.0 | 38.9 | | | |
| FH (60°-80°) | 7356.3 | 36.7 | | | G3/7500 |
| FVH (80°-90°) | 160.1 | 0.8 | | | G2/225 |
| BL (0°-30°) | 891.7 | 4.4 | B2/1000 | | |
| BM (30°-60°) | 1525.1 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 911.8 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 95.2 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 |
| 2.5° | 2526.4 | 2543.5 | 2557.7 | 2570.9 | 2597.4 | 2641.0 | 2691.2 | 2731.9 | 2790.6 | 2802.0 | 2833.2 |
| 5° | 2294.4 | 2294.4 | 2305.8 | 2325.7 | 2361.6 | 2427.0 | 2495.2 | 2586.1 | 2713.9 | 2744.2 | 2827.5 |
| 7.5° | 2181.7 | 2182.7 | 2189.3 | 2206.3 | 2237.6 | 2297.2 | 2372.1 | 2479.1 | 2652.3 | 2702.5 | 2844.6 |
| 10° | 2223.4 | 2213.9 | 2199.7 | 2191.2 | 2195.9 | 2231.0 | 2302.0 | 2421.3 | 2614.5 | 2678.9 | 2882.5 |
| 12.5° | 2456.3 | 2438.3 | 2389.1 | 2323.8 | 2261.3 | 2235.7 | 2277.4 | 2393.8 | 2598.4 | 2673.2 | 2932.6 |
| 15° | 2837.0 | 2829.4 | 2737.6 | 2602.2 | 2450.7 | 2323.8 | 2295.4 | 2383.4 | 2600.3 | 2679.8 | 2992.3 |
| 17.5° | 3314.3 | 3303.8 | 3182.6 | 2985.7 | 2738.5 | 2491.4 | 2358.8 | 2391.9 | 2606.9 | 2691.2 | 3050.1 |
| 20° | 3796.2 | 3764.0 | 3633.4 | 3398.5 | 3081.3 | 2719.6 | 2463.9 | 2413.7 | 2615.4 | 2703.5 | 3110.7 |
| 22.5° | 4156.1 | 4129.6 | 4012.1 | 3783.9 | 3418.4 | 2983.8 | 2605.0 | 2451.6 | 2642.9 | 2739.5 | 3185.5 |
| 25° | 4472.3 | 4474.2 | 4357.8 | 4137.1 | 3759.3 | 3264.1 | 2786.8 | 2552.9 | 2713.0 | 2813.3 | 3287.7 |
| 27.5° | 4863.4 | 4840.7 | 4731.8 | 4513.1 | 4096.4 | 3547.2 | 3006.5 | 2692.1 | 2817.1 | 2918.4 | 3422.2 |
| 30° | 5331.2 | 5315.1 | 5189.2 | 4941.1 | 4470.5 | 3851.2 | 3257.4 | 2854.0 | 2951.6 | 3056.7 | 3598.3 |
| 32.5° | 5881.4 | 5873.8 | 5743.1 | 5424.0 | 4902.3 | 4209.1 | 3551.9 | 3068.0 | 3152.3 | 3261.2 | 3851.2 |
| 35° | 6527.2 | 6528.1 | 6373.8 | 5990.3 | 5374.8 | 4625.7 | 3886.2 | 3343.6 | 3396.6 | 3510.3 | 4152.3 |
| 37.5° | 6924.9 | 6973.2 | 6915.4 | 6524.3 | 5909.8 | 5091.6 | 4319.9 | 3709.1 | 3675.0 | 3789.6 | 4475.2 |
| 40° | 7010.1 | 7068.8 | 7251.6 | 7052.7 | 6508.2 | 5604.9 | 4704.3 | 4060.4 | 4017.8 | 4158.0 | 4890.9 |
| 42.5° | 6890.8 | 6972.2 | 7358.6 | 7498.7 | 7143.6 | 6237.4 | 5221.4 | 4582.2 | 4528.2 | 4716.7 | 5407.9 |
| 45° | 6819.8 | 6880.4 | 7327.3 | 7730.7 | 7694.7 | 6952.4 | 5879.5 | 5237.5 | 5217.6 | 5464.7 | 6004.5 |
| 47.5° | 6696.7 | 6751.6 | 7181.5 | 7784.7 | 8018.6 | 7607.6 | 6670.2 | 6038.6 | 6077.4 | 6401.2 | 6677.7 |
| 50° | 6763.0 | 6785.7 | 7018.6 | 7647.4 | 8112.3 | 8087.7 | 7553.7 | 6966.6 | 7099.1 | 7503.5 | 7440.0 |
| 52.5° | 6753.5 | 6812.2 | 6999.7 | 7422.0 | 8124.7 | 8384.1 | 8423.9 | 8001.5 | 8280.9 | 8744.9 | 8285.6 |
| 55° | 5460.0 | 5567.9 | 6777.2 | 7365.2 | 8168.2 | 8674.8 | 9198.5 | 9092.4 | 9613.2 | 10153.9 | 9240.1 |
| 57.5° | 5213.8 | 5282.0 | 5952.4 | 7484.5 | 8399.3 | 9229.7 | 10060.2 | 10293.1 | 11164.3 | 11792.1 | 10403.0 |
| 60° | 5165.5 | 5249.8 | 5943.9 | 7630.4 | 8868.0 | 10134.0 | 11337.6 | 11746.7 | 13051.5 | 13739.0 | 11751.4 |
| 62.5° | 5014.9 | 5105.8 | 5888.0 | 7611.4 | 9533.7 | 11384.9 | 12972.9 | 13292.0 | 14841.2 | 15509.7 | 12879.2 |
| 65° | 4537.7 | 4622.9 | 5432.5 | 7305.6 | 9982.5 | 12720.1 | 14908.4 | 14708.6 | 16254.0 | 16756.9 | 13441.7 |
| 66° | 4211.0 | 4294.3 | 5073.6 | 6945.7 | 9878.4 | 13098.9 | 15594.0 | 15147.1 | 16570.3 | 16964.2 | 13331.8 |
| 67.5° | 3613.5 | 3678.8 | 4376.7 | 6139.9 | 9324.4 | 13204.9 | 16170.7 | 15476.6 | 16603.5 | 16742.7 | 12704.0 |
| 70° | 2283.0 | 2302.0 | 2844.6 | 4238.5 | 7058.4 | 11452.2 | 15292.9 | 14658.5 | 15234.2 | 14857.3 | 10650.1 |
| 72.5° | 990.5 | 983.9 | 1365.5 | 2156.2 | 3996.0 | 7684.3 | 12370.7 | 12095.1 | 11950.2 | 11090.4 | 7455.2 |
| 75° | 551.1 | 558.7 | 709.2 | 1000.9 | 1624.0 | 3774.5 | 8092.5 | 7744.0 | 6538.5 | 5579.3 | 3380.5 |
| 77.5° | 442.2 | 452.6 | 588.0 | 710.2 | 729.1 | 1316.2 | 3786.8 | 3081.3 | 1855.0 | 1488.6 | 939.4 |
| 80° | 349.4 | 368.4 | 513.2 | 553.0 | 491.5 | 542.6 | 1223.4 | 978.2 | 733.9 | 673.3 | 486.7 |
| 82.5° | 276.5 | 289.8 | 440.3 | 418.5 | 343.7 | 365.5 | 586.1 | 571.0 | 477.3 | 434.6 | 281.2 |
| 85° | 198.9 | 223.5 | 361.7 | 315.3 | 225.4 | 246.2 | 389.2 | 373.1 | 273.7 | 223.5 | 124.0 |
| 87.5° | 81.4 | 106.1 | 255.7 | 209.3 | 125.9 | 114.6 | 194.1 | 182.8 | 129.7 | 94.7 | 61.6 |
| 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° | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 | 2855.9 |
| 2.5° | 2853.1 | 2875.8 | 2905.2 | 2923.2 | 2932.6 | 2939.3 | 2949.7 | 2948.7 | 2951.6 | 2952.5 | 2956.3 |
| 5° | 2872.0 | 2909.9 | 2952.5 | 2963.9 | 2963.9 | 2953.5 | 2943.1 | 2926.0 | 2919.4 | 2917.5 | 2919.4 |
| 7.5° | 2921.3 | 2962.9 | 2999.9 | 2986.6 | 2958.2 | 2916.5 | 2862.6 | 2815.2 | 2789.7 | 2781.1 | 2779.2 |
| 10° | 2983.8 | 3034.0 | 3049.1 | 2998.9 | 2915.6 | 2815.2 | 2708.2 | 2630.6 | 2586.1 | 2573.8 | 2570.0 |
| 12.5° | 3059.5 | 3106.9 | 3086.0 | 2980.0 | 2825.6 | 2663.7 | 2516.0 | 2391.9 | 2299.1 | 2269.8 | 2267.9 |
| 15° | 3142.9 | 3179.8 | 3106.9 | 2921.3 | 2691.2 | 2452.5 | 2189.3 | 1975.3 | 1859.8 | 1822.8 | 1820.0 |
| 17.5° | 3220.5 | 3239.4 | 3094.6 | 2819.0 | 2493.3 | 2106.9 | 1757.5 | 1592.7 | 1553.0 | 1562.4 | 1564.3 |
| 20° | 3286.8 | 3286.8 | 3052.9 | 2672.2 | 2181.7 | 1651.4 | 1430.8 | 1428.0 | 1456.4 | 1484.8 | 1490.5 |
| 22.5° | 3359.7 | 3316.1 | 2980.0 | 2464.9 | 1740.5 | 1351.3 | 1319.1 | 1345.6 | 1377.8 | 1409.0 | 1413.8 |
| 25° | 3449.7 | 3339.8 | 2878.7 | 2150.5 | 1368.3 | 1227.2 | 1239.5 | 1261.3 | 1277.4 | 1297.3 | 1300.1 |
| 27.5° | 3550.0 | 3370.1 | 2745.1 | 1717.7 | 1187.4 | 1149.6 | 1159.0 | 1166.6 | 1164.7 | 1172.3 | 1174.2 |
| 30° | 3670.3 | 3405.2 | 2562.4 | 1342.7 | 1112.6 | 1083.3 | 1066.2 | 1059.6 | 1059.6 | 1071.9 | 1076.7 |
| 32.5° | 3831.3 | 3457.2 | 2300.1 | 1150.5 | 1076.7 | 1035.9 | 981.0 | 956.4 | 965.9 | 1007.5 | 1017.0 |
| 35° | 4008.4 | 3513.1 | 1945.0 | 1085.2 | 1069.1 | 1014.2 | 928.9 | 883.5 | 884.4 | 923.3 | 935.6 |
| 37.5° | 4201.5 | 3584.1 | 1555.8 | 1072.9 | 1086.1 | 1015.1 | 901.5 | 839.0 | 813.4 | 813.4 | 818.1 |
| 40° | 4448.7 | 3657.0 | 1259.4 | 1081.4 | 1122.1 | 1026.5 | 887.3 | 803.9 | 732.0 | 733.9 | 737.7 |
| 42.5° | 4770.6 | 3719.5 | 1100.3 | 1099.4 | 1165.7 | 1041.6 | 886.3 | 757.5 | 695.0 | 737.7 | 776.5 |
| 45° | 5128.6 | 3750.8 | 1030.3 | 1115.5 | 1200.7 | 1051.1 | 871.2 | 750.0 | 699.8 | 826.7 | 900.5 |
| 47.5° | 5540.5 | 3732.8 | 991.4 | 1121.2 | 1209.2 | 1051.1 | 854.1 | 768.0 | 732.9 | 957.3 | 1043.5 |
| 50° | 5992.2 | 3680.7 | 953.6 | 1109.8 | 1206.4 | 1049.2 | 870.2 | 786.0 | 745.2 | 980.1 | 1039.7 |
| 52.5° | 6523.4 | 3637.2 | 913.8 | 1085.2 | 1186.5 | 1038.8 | 889.2 | 778.4 | 706.4 | 891.1 | 932.7 |
| 55° | 7129.4 | 3649.5 | 869.3 | 1050.1 | 1155.3 | 1018.9 | 882.5 | 748.1 | 665.7 | 785.0 | 810.6 |
| 57.5° | 7904.0 | 3796.2 | 816.3 | 1005.6 | 1112.6 | 985.8 | 858.9 | 733.9 | 653.4 | 712.1 | 727.2 |
| 60° | 8768.6 | 4051.9 | 750.0 | 961.1 | 1059.6 | 932.7 | 840.9 | 740.5 | 659.1 | 706.4 | 714.0 |
| 62.5° | 9403.0 | 4200.6 | 693.2 | 895.8 | 987.6 | 874.0 | 818.1 | 749.0 | 674.2 | 726.3 | 724.4 |
| 65° | 9575.3 | 3956.3 | 622.1 | 800.2 | 890.1 | 812.5 | 789.7 | 758.5 | 680.8 | 742.4 | 733.9 |
| 66° | 9333.9 | 3693.0 | 590.9 | 755.6 | 840.9 | 782.2 | 775.5 | 757.5 | 678.0 | 744.3 | 730.1 |
| 67.5° | 8747.7 | 3153.3 | 536.9 | 690.3 | 762.3 | 736.7 | 752.8 | 749.0 | 670.4 | 742.4 | 722.5 |
| 70° | 7134.2 | 2151.4 | 459.3 | 574.8 | 634.4 | 648.6 | 709.2 | 718.7 | 645.8 | 709.2 | 665.7 |
| 72.5° | 4984.6 | 1310.5 | 406.2 | 446.0 | 513.2 | 553.0 | 649.6 | 677.1 | 612.7 | 619.3 | 577.6 |
| 75° | 2409.0 | 696.0 | 368.4 | 345.6 | 398.7 | 462.1 | 577.6 | 620.2 | 560.6 | 518.0 | 502.8 |
| 77.5° | 750.9 | 425.2 | 312.5 | 278.4 | 312.5 | 373.1 | 482.9 | 543.5 | 499.0 | 433.7 | 428.0 |
| 80° | 403.4 | 312.5 | 240.5 | 223.5 | 247.1 | 292.6 | 379.7 | 453.6 | 429.0 | 389.2 | 347.5 |
| 82.5° | 266.1 | 202.6 | 178.0 | 173.3 | 188.4 | 223.5 | 282.2 | 375.9 | 375.9 | 333.3 | 242.4 |
| 85° | 137.3 | 124.0 | 122.2 | 122.2 | 131.6 | 148.7 | 192.2 | 289.8 | 308.7 | 176.1 | 145.8 |
| 87.5° | 68.2 | 71.0 | 66.3 | 69.1 | 73.9 | 72.9 | 91.9 | 145.8 | 174.2 | 107.0 | 89.0 |
| 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)