

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: P648759

Luminaire Tested: **GLAN-SA2C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9365.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

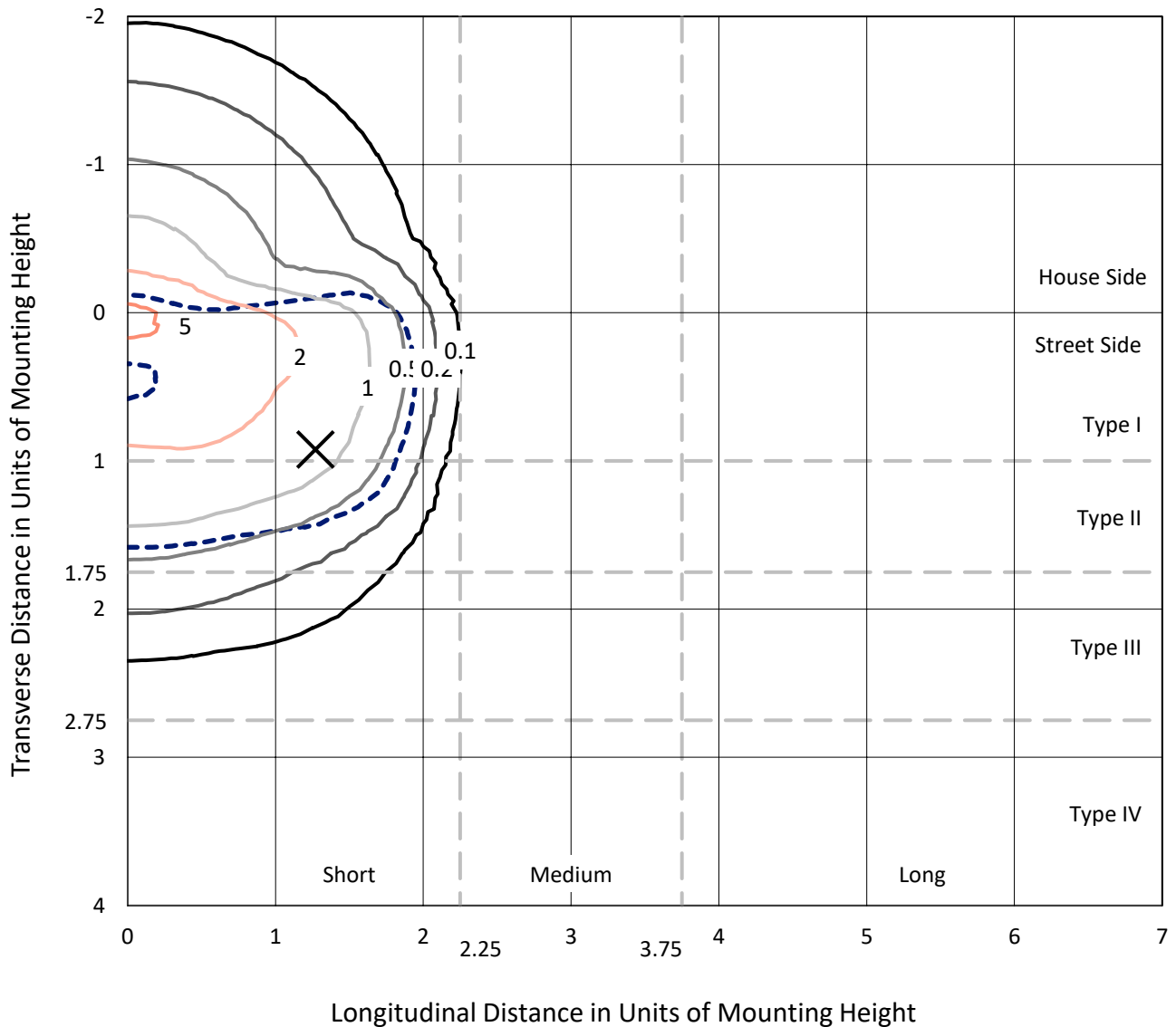
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

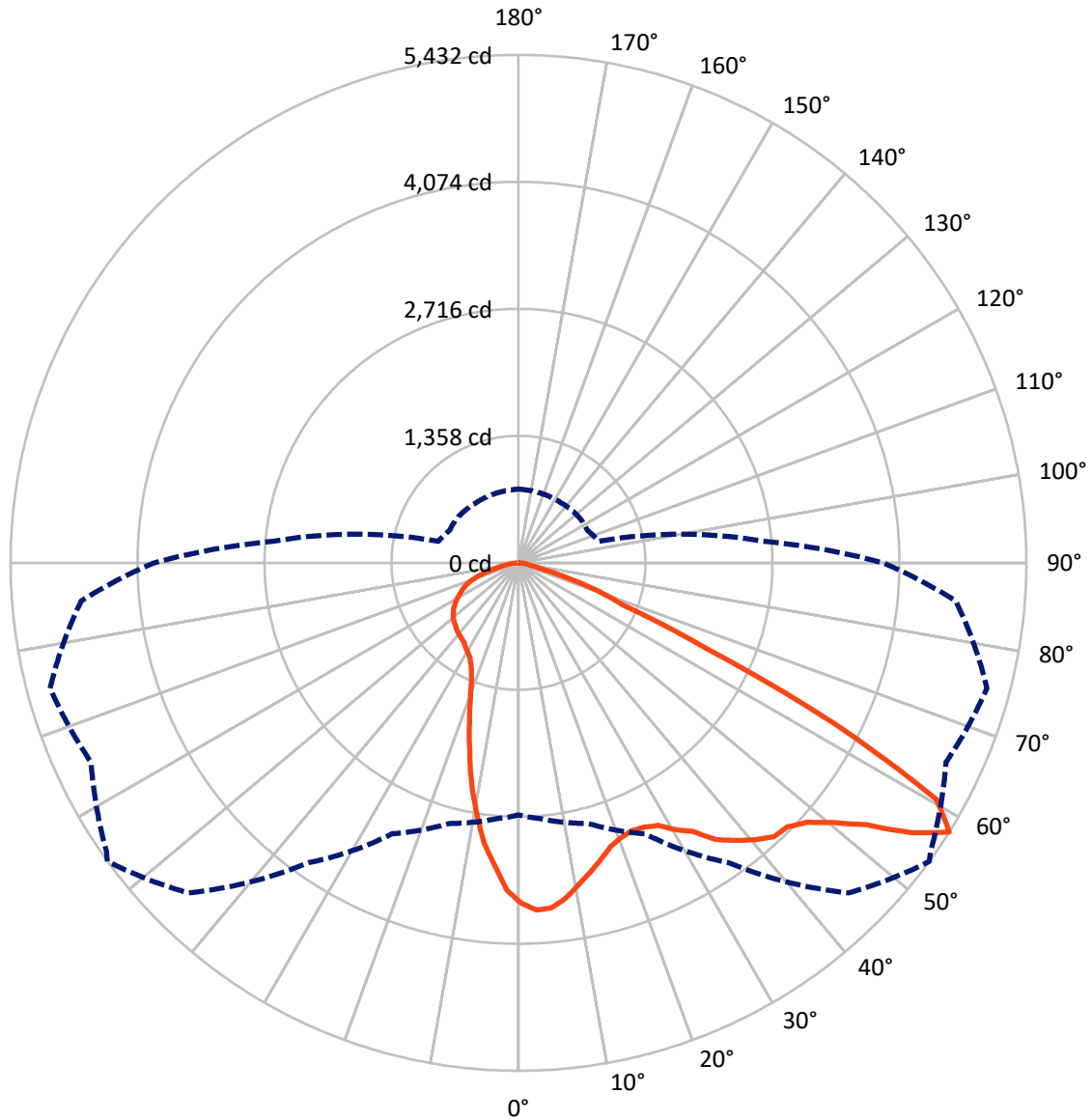
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2591.0 | 0.0 | 2591.0 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 6774.5 | 0.0 | 6774.5 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 9365.5 | 0.0 | 9365.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 313.9 | 3.4 |
| 10°-20° | 726.9 | 7.8 |
| 20°-30° | 1021.3 | 10.9 |
| 30°-40° | 1427.7 | 15.2 |
| 40°-50° | 1932.9 | 20.6 |
| 50°-60° | 2354.4 | 25.1 |
| 60°-70° | 1226.2 | 13.1 |
| 70°-80° | 314.2 | 3.4 |
| 80°-90° | 47.9 | 0.5 |
| 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° | 9365.5 | 100.0 |
| 0°-180° | 9365.5 | 100.0 |

Coefficient of Utilization

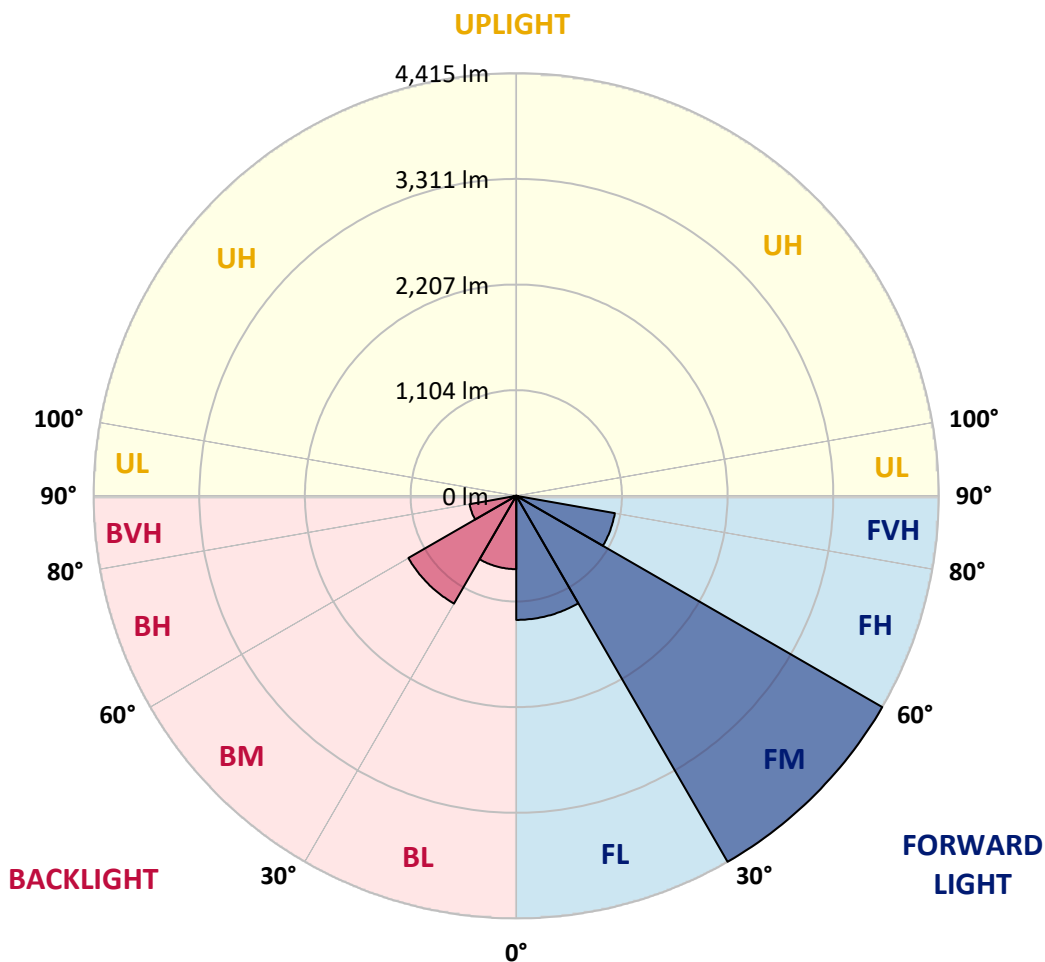


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1296.3 | 13.8 | | | |
| FM (30°-60°) | 4414.6 | 47.1 | | | |
| FH (60°-80°) | 1045.5 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 18.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 765.8 | 8.2 | B2/1000 | | |
| BM (30°-60°) | 1300.4 | 13.9 | B2/2500 | | |
| BH (60°-80°) | 495.0 | 5.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 29.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 |
| 2.5° | 3743.8 | 3729.4 | 3731.7 | 3751.0 | 3726.9 | 3717.3 | 3717.3 | 3670.3 | 3674.0 | 3641.4 | 3633.0 |
| 5° | 3657.1 | 3623.4 | 3646.3 | 3675.2 | 3679.9 | 3689.6 | 3705.2 | 3693.2 | 3659.5 | 3624.6 | 3568.1 |
| 7.5° | 3430.8 | 3460.9 | 3469.3 | 3489.8 | 3533.1 | 3572.8 | 3622.2 | 3588.5 | 3587.3 | 3552.4 | 3518.6 |
| 10° | 3232.1 | 3214.1 | 3259.9 | 3289.9 | 3362.2 | 3428.4 | 3504.2 | 3500.6 | 3518.6 | 3478.9 | 3421.2 |
| 12.5° | 3034.8 | 3020.3 | 3042.0 | 3110.5 | 3211.7 | 3308.0 | 3398.3 | 3364.6 | 3460.9 | 3453.7 | 3329.7 |
| 15° | 2825.3 | 2836.1 | 2867.4 | 2931.2 | 3063.6 | 3179.2 | 3293.5 | 3294.8 | 3380.2 | 3409.1 | 3243.0 |
| 17.5° | 2678.4 | 2666.3 | 2706.1 | 2801.2 | 2919.2 | 3057.6 | 3187.6 | 3214.1 | 3345.3 | 3362.2 | 3216.5 |
| 20° | 2568.9 | 2585.7 | 2637.5 | 2685.6 | 2821.7 | 2989.0 | 3135.8 | 3145.5 | 3338.1 | 3383.8 | 3174.4 |
| 22.5° | 2542.4 | 2532.8 | 2549.6 | 2627.8 | 2739.8 | 2921.6 | 3108.2 | 3144.3 | 3336.9 | 3376.6 | 3095.0 |
| 25° | 2514.7 | 2546.0 | 2544.8 | 2623.0 | 2704.9 | 2867.4 | 3131.1 | 3170.8 | 3400.7 | 3414.0 | 3105.8 |
| 27.5° | 2577.3 | 2573.7 | 2607.4 | 2613.4 | 2714.5 | 2881.8 | 3179.2 | 3209.3 | 3506.7 | 3495.8 | 3114.2 |
| 30° | 2639.9 | 2621.9 | 2642.3 | 2713.3 | 2760.3 | 2964.9 | 3311.6 | 3309.2 | 3643.8 | 3636.6 | 3140.7 |
| 32.5° | 2716.9 | 2708.6 | 2721.8 | 2784.3 | 2863.8 | 3075.7 | 3423.6 | 3494.6 | 3783.5 | 3829.3 | 3232.1 |
| 35° | 2731.4 | 2766.3 | 2797.6 | 2881.8 | 2995.1 | 3255.0 | 3634.2 | 3693.2 | 3944.8 | 4088.0 | 3406.7 |
| 37.5° | 2822.9 | 2836.1 | 2909.5 | 3058.8 | 3162.4 | 3494.6 | 3767.9 | 3805.1 | 4091.6 | 4254.2 | 3590.9 |
| 40° | 2920.4 | 2936.0 | 3046.8 | 3203.3 | 3345.3 | 3651.1 | 3893.1 | 3905.1 | 4138.6 | 4381.7 | 3711.3 |
| 42.5° | 3052.8 | 3067.2 | 3176.8 | 3373.0 | 3563.2 | 3784.7 | 4003.8 | 4017.0 | 4135.0 | 4528.6 | 3902.7 |
| 45° | 3190.0 | 3224.9 | 3353.7 | 3576.4 | 3747.4 | 3941.2 | 4029.1 | 4083.3 | 4168.7 | 4659.9 | 4058.0 |
| 47.5° | 3382.6 | 3415.1 | 3521.1 | 3739.0 | 3938.8 | 4078.4 | 4145.8 | 4198.8 | 4249.3 | 4774.2 | 4157.9 |
| 50° | 3587.3 | 3593.3 | 3722.1 | 3919.5 | 4066.4 | 4233.7 | 4363.7 | 4381.7 | 4355.3 | 4906.7 | 4327.6 |
| 52.5° | 3737.7 | 3757.0 | 3856.9 | 4049.5 | 4268.6 | 4474.5 | 4652.7 | 4671.9 | 4620.1 | 4956.0 | 4385.4 |
| 55° | 3488.6 | 3477.8 | 3640.2 | 3896.7 | 4404.7 | 4833.2 | 5092.0 | 5106.5 | 4812.7 | 5108.8 | 4574.4 |
| 57.5° | 2696.5 | 2748.3 | 2886.7 | 3196.0 | 3913.5 | 4992.1 | 5431.5 | 5379.7 | 5043.9 | 5185.9 | 4694.8 |
| 60° | 1959.8 | 1947.7 | 2040.4 | 2247.4 | 2949.2 | 4302.4 | 5135.4 | 5188.3 | 4854.8 | 4674.3 | 3871.4 |
| 62.5° | 1596.2 | 1579.4 | 1586.6 | 1593.8 | 1903.2 | 2855.4 | 3801.5 | 3800.4 | 3739.0 | 3359.8 | 2611.0 |
| 65° | 1276.0 | 1315.8 | 1319.4 | 1373.5 | 1413.2 | 1705.8 | 2202.9 | 2320.9 | 2021.2 | 1657.6 | 1202.6 |
| 67.5° | 961.8 | 947.4 | 995.5 | 1188.1 | 1262.7 | 1231.5 | 1202.6 | 1215.8 | 864.4 | 623.6 | 587.5 |
| 70° | 567.0 | 560.9 | 618.7 | 828.2 | 1040.1 | 978.7 | 906.5 | 907.7 | 593.4 | 435.7 | 485.1 |
| 72.5° | 310.5 | 309.4 | 321.4 | 420.2 | 591.1 | 614.0 | 544.1 | 560.9 | 353.9 | 352.7 | 379.2 |
| 75° | 173.4 | 169.8 | 166.2 | 185.4 | 213.1 | 225.1 | 229.9 | 232.3 | 243.2 | 272.1 | 282.9 |
| 77.5° | 63.8 | 61.4 | 61.4 | 71.0 | 90.3 | 113.1 | 143.3 | 145.6 | 172.1 | 197.4 | 208.3 |
| 80° | 21.7 | 24.0 | 32.5 | 44.6 | 60.2 | 80.6 | 97.5 | 99.9 | 121.6 | 138.4 | 142.0 |
| 82.5° | 13.2 | 14.4 | 21.7 | 31.3 | 43.3 | 56.6 | 72.2 | 73.4 | 90.3 | 101.1 | 105.9 |
| 85° | 6.0 | 7.2 | 12.1 | 19.3 | 27.7 | 37.3 | 38.5 | 38.5 | 37.3 | 38.5 | 36.1 |
| 87.5° | 0.0 | 0.0 | 2.4 | 2.4 | 2.4 | 3.6 | 4.8 | 3.6 | 6.0 | 7.2 | 7.2 |
| 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° | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 | 3640.2 |
| 2.5° | 3607.8 | 3594.5 | 3553.6 | 3517.5 | 3506.7 | 3458.5 | 3387.4 | 3395.9 | 3344.1 | 3368.2 | 3342.9 |
| 5° | 3558.4 | 3513.9 | 3409.1 | 3364.6 | 3247.8 | 3194.9 | 3158.7 | 3068.4 | 3026.3 | 3017.9 | 2981.7 |
| 7.5° | 3432.0 | 3404.3 | 3273.1 | 3152.7 | 3028.7 | 2922.8 | 2786.8 | 2694.1 | 2627.8 | 2609.8 | 2556.8 |
| 10° | 3332.1 | 3270.7 | 3088.9 | 2905.9 | 2729.0 | 2544.8 | 2367.9 | 2229.4 | 2162.0 | 2083.7 | 2057.3 |
| 12.5° | 3233.4 | 3140.7 | 2895.1 | 2660.4 | 2431.7 | 2199.3 | 1985.1 | 1816.5 | 1669.7 | 1634.7 | 1622.7 |
| 15° | 3172.0 | 3010.6 | 2721.8 | 2438.9 | 2113.9 | 1810.5 | 1596.2 | 1485.5 | 1395.1 | 1357.9 | 1384.3 |
| 17.5° | 3091.3 | 2903.5 | 2555.6 | 2178.9 | 1821.3 | 1542.0 | 1362.7 | 1294.1 | 1261.6 | 1265.2 | 1254.4 |
| 20° | 2990.2 | 2802.4 | 2337.7 | 1942.9 | 1560.1 | 1337.4 | 1235.1 | 1209.8 | 1214.6 | 1223.0 | 1219.4 |
| 22.5° | 2918.0 | 2679.7 | 2180.0 | 1702.2 | 1348.2 | 1224.2 | 1182.1 | 1164.1 | 1179.7 | 1186.9 | 1180.9 |
| 25° | 2862.6 | 2574.9 | 1988.7 | 1489.1 | 1225.5 | 1160.5 | 1141.2 | 1140.0 | 1164.1 | 1173.7 | 1167.7 |
| 27.5° | 2812.1 | 2477.4 | 1798.5 | 1326.6 | 1143.6 | 1111.1 | 1105.0 | 1119.5 | 1135.2 | 1144.8 | 1153.2 |
| 30° | 2781.9 | 2402.8 | 1620.3 | 1190.6 | 1102.7 | 1087.0 | 1076.2 | 1089.4 | 1097.8 | 1107.5 | 1102.7 |
| 32.5° | 2810.8 | 2349.8 | 1448.2 | 1113.5 | 1069.0 | 1053.3 | 1067.8 | 1059.3 | 1073.8 | 1082.2 | 1069.0 |
| 35° | 2901.1 | 2302.9 | 1325.4 | 1072.6 | 1030.4 | 1036.5 | 1038.9 | 1035.3 | 1041.3 | 1034.0 | 1049.7 |
| 37.5° | 2990.2 | 2286.0 | 1212.2 | 1037.6 | 1012.4 | 1012.4 | 1010.0 | 1002.8 | 1014.8 | 1012.4 | 1019.6 |
| 40° | 3103.3 | 2296.9 | 1115.9 | 1000.4 | 995.5 | 993.2 | 983.5 | 982.3 | 977.5 | 978.7 | 981.1 |
| 42.5° | 3202.1 | 2320.9 | 1060.6 | 976.2 | 979.8 | 984.7 | 966.6 | 952.2 | 958.2 | 946.2 | 946.2 |
| 45° | 3306.8 | 2342.6 | 1011.2 | 959.4 | 955.8 | 954.6 | 940.1 | 931.7 | 926.9 | 928.1 | 939.0 |
| 47.5° | 3471.7 | 2373.9 | 973.9 | 936.5 | 939.0 | 920.9 | 917.3 | 906.5 | 911.3 | 918.5 | 919.7 |
| 50° | 3588.5 | 2440.1 | 945.0 | 910.1 | 918.5 | 906.5 | 884.8 | 879.9 | 879.9 | 892.0 | 889.6 |
| 52.5° | 3670.3 | 2532.8 | 917.3 | 881.2 | 884.8 | 875.2 | 868.0 | 857.1 | 849.9 | 866.7 | 875.2 |
| 55° | 3920.7 | 2686.9 | 910.1 | 857.1 | 855.9 | 846.3 | 833.0 | 822.2 | 818.5 | 821.0 | 837.8 |
| 57.5° | 3896.7 | 2638.7 | 887.2 | 814.9 | 812.5 | 799.3 | 786.1 | 782.5 | 781.3 | 783.6 | 788.5 |
| 60° | 3163.6 | 1949.0 | 792.1 | 766.8 | 763.2 | 760.8 | 747.5 | 733.1 | 725.9 | 733.1 | 727.1 |
| 62.5° | 2093.4 | 1304.9 | 698.2 | 709.0 | 711.4 | 705.4 | 683.7 | 669.3 | 671.7 | 680.1 | 666.9 |
| 65° | 1028.0 | 766.8 | 633.2 | 662.1 | 664.5 | 647.6 | 627.2 | 610.3 | 601.9 | 609.1 | 603.1 |
| 67.5° | 587.5 | 586.2 | 580.2 | 610.3 | 609.1 | 592.3 | 559.8 | 545.3 | 530.9 | 533.3 | 529.7 |
| 70° | 498.4 | 508.0 | 520.1 | 538.1 | 536.9 | 517.6 | 479.1 | 468.2 | 447.8 | 445.4 | 439.4 |
| 72.5° | 392.4 | 409.3 | 435.7 | 449.1 | 438.2 | 414.1 | 388.8 | 370.8 | 352.7 | 341.9 | 345.5 |
| 75° | 291.4 | 315.4 | 329.8 | 338.3 | 321.4 | 308.2 | 287.7 | 266.1 | 244.4 | 234.7 | 231.1 |
| 77.5° | 211.9 | 219.1 | 232.3 | 238.3 | 227.5 | 214.3 | 202.2 | 180.6 | 160.1 | 146.9 | 143.3 |
| 80° | 148.1 | 152.9 | 162.5 | 162.5 | 162.5 | 156.5 | 140.9 | 119.2 | 105.9 | 93.9 | 91.5 |
| 82.5° | 103.5 | 108.4 | 118.0 | 113.1 | 112.0 | 104.8 | 95.1 | 78.2 | 63.8 | 55.4 | 52.9 |
| 85° | 36.1 | 39.7 | 48.2 | 57.8 | 61.4 | 60.2 | 54.2 | 43.3 | 33.7 | 27.7 | 25.3 |
| 87.5° | 8.5 | 8.5 | 9.6 | 8.5 | 8.5 | 9.6 | 8.5 | 8.5 | 8.5 | 6.0 | 4.8 |
| 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)