

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: P653294

Luminaire Tested: **GLAN-SA3D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11811.8 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

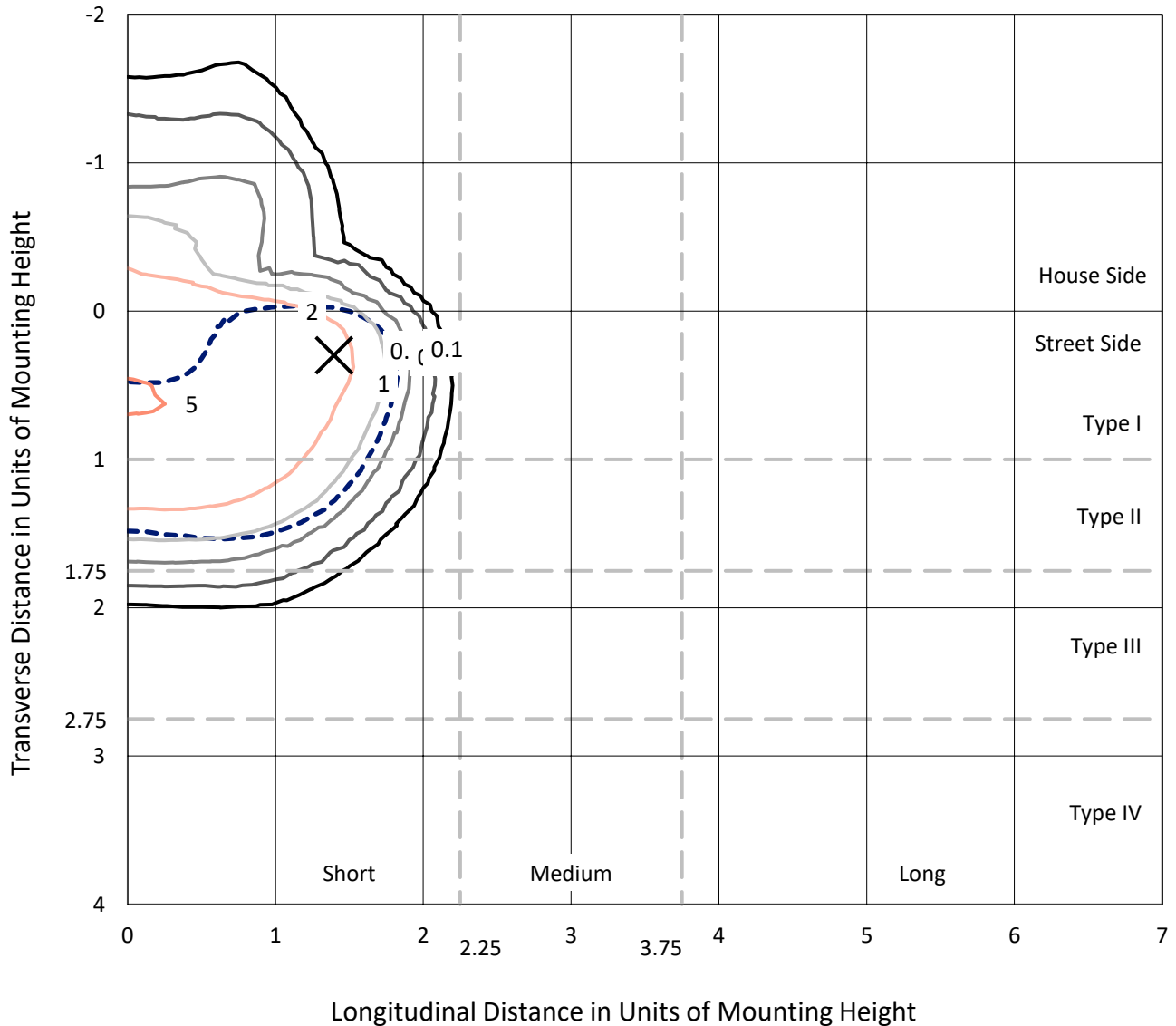
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

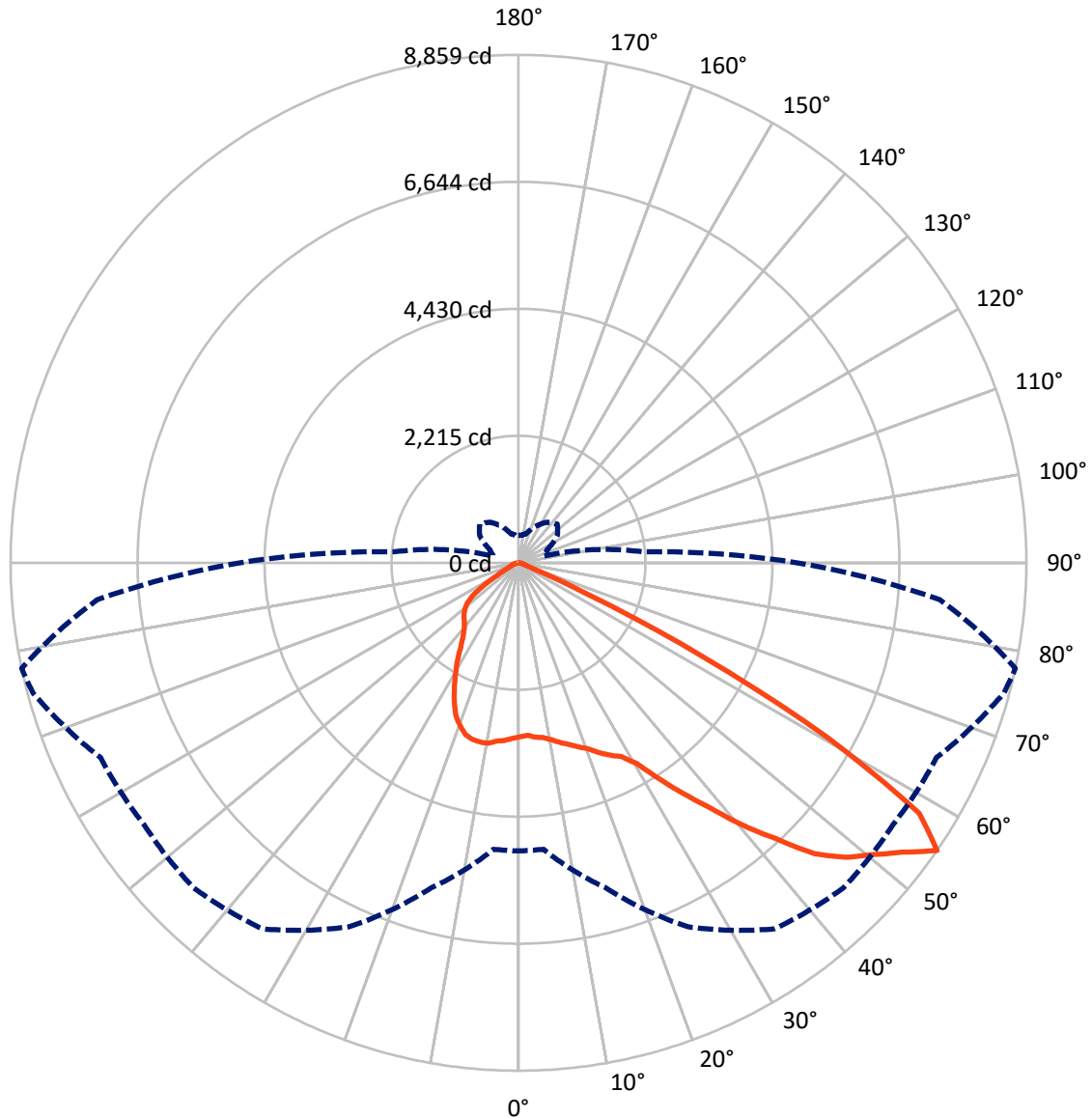
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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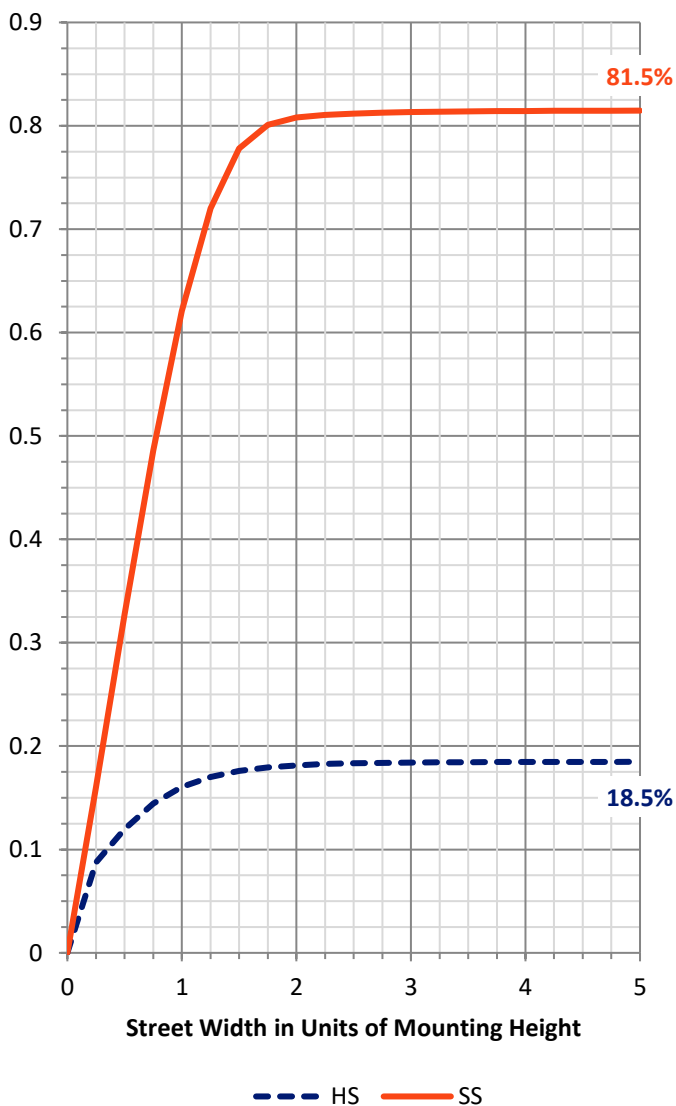
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2193.9 | 0.0 | 2193.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 9617.9 | 0.0 | 9617.9 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 11811.8 | 0.0 | 11811.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 270.8 | 2.3 |
| 10°-20° | 716.6 | 6.1 |
| 20°-30° | 1256.2 | 10.6 |
| 30°-40° | 2071.2 | 17.5 |
| 40°-50° | 3013.9 | 25.5 |
| 50°-60° | 3415.1 | 28.9 |
| 60°-70° | 976.4 | 8.3 |
| 70°-80° | 75.8 | 0.6 |
| 80°-90° | 15.8 | 0.1 |
| 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° | 11811.8 | 100.0 |
| 0°-180° | 11811.8 | 100.0 |

Coefficient of Utilization



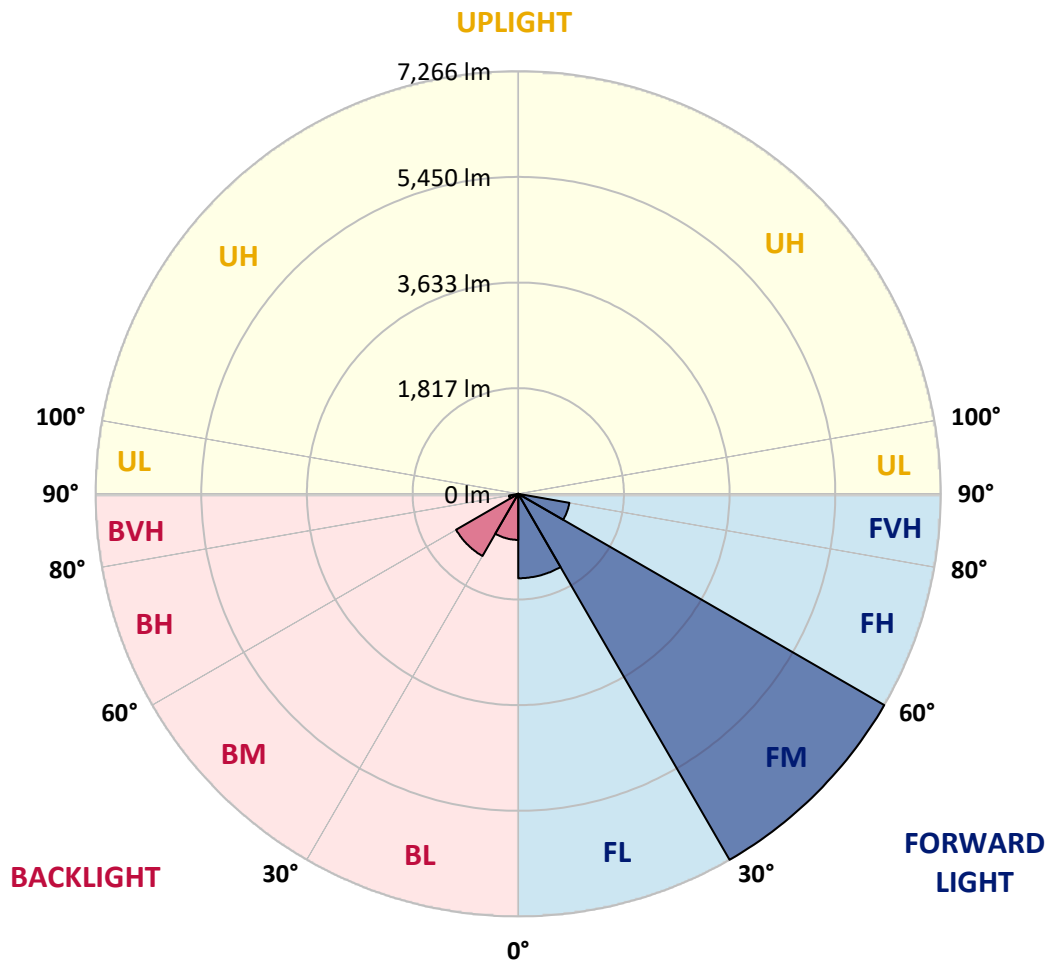
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1452.0 | 12.3 | | | |
| FM (30°-60°) | 7266.1 | 61.5 | | | |
| FH (60°-80°) | 892.1 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 7.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 791.6 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1234.1 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 160.1 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.1 | 0.1 | | | G0/10 |
| 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° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 |
| 2.5° | 2855.2 | 2882.7 | 2886.9 | 2920.7 | 2918.6 | 2975.6 | 2992.4 | 2994.6 | 3032.6 | 3013.6 | 3062.2 |
| 5° | 2775.0 | 2760.2 | 2753.9 | 2813.0 | 2829.9 | 2880.6 | 2922.8 | 2948.1 | 3026.3 | 3053.8 | 3104.4 |
| 7.5° | 2703.1 | 2703.1 | 2707.3 | 2760.2 | 2753.9 | 2819.3 | 2863.7 | 2941.8 | 3055.9 | 3079.1 | 3140.3 |
| 10° | 2633.5 | 2608.1 | 2639.8 | 2694.7 | 2741.2 | 2770.8 | 2863.7 | 2937.6 | 3070.7 | 3138.2 | 3222.7 |
| 12.5° | 2597.6 | 2610.2 | 2614.5 | 2654.6 | 2705.2 | 2794.0 | 2844.7 | 2967.1 | 3176.2 | 3216.3 | 3307.1 |
| 15° | 2823.6 | 2798.2 | 2737.0 | 2701.0 | 2743.3 | 2785.6 | 2912.2 | 3036.9 | 3231.1 | 3288.1 | 3389.5 |
| 17.5° | 3085.4 | 3064.3 | 3013.6 | 2916.4 | 2821.4 | 2899.6 | 2998.8 | 3112.9 | 3290.2 | 3374.8 | 3524.6 |
| 20° | 3427.5 | 3393.8 | 3343.1 | 3153.0 | 3070.7 | 2986.1 | 3091.8 | 3226.9 | 3387.4 | 3463.4 | 3617.6 |
| 22.5° | 3835.1 | 3835.1 | 3721.1 | 3490.9 | 3319.8 | 3239.5 | 3283.9 | 3362.1 | 3495.1 | 3598.6 | 3750.6 |
| 25° | 4259.6 | 4246.9 | 4143.4 | 3904.8 | 3615.5 | 3520.4 | 3571.1 | 3626.1 | 3662.0 | 3719.0 | 3820.3 |
| 27.5° | 4745.3 | 4671.4 | 4540.5 | 4276.5 | 4021.0 | 3837.2 | 3892.1 | 3843.5 | 3799.2 | 3828.7 | 3974.5 |
| 30° | 5074.8 | 5121.2 | 4954.4 | 4700.9 | 4460.2 | 4255.4 | 4265.9 | 4223.7 | 4021.0 | 4063.2 | 4149.7 |
| 32.5° | 5416.9 | 5446.5 | 5353.6 | 5214.1 | 4973.4 | 4734.7 | 4648.2 | 4612.3 | 4460.2 | 4479.3 | 4394.7 |
| 35° | 5702.0 | 5759.0 | 5676.7 | 5615.4 | 5545.7 | 5353.6 | 5114.9 | 5231.0 | 4986.0 | 4939.6 | 4719.9 |
| 37.5° | 5963.9 | 5947.0 | 6044.1 | 5980.8 | 5966.0 | 5830.8 | 5568.9 | 5592.1 | 5427.5 | 5416.9 | 5163.5 |
| 40° | 6198.3 | 6202.5 | 6335.5 | 6365.1 | 6306.0 | 6065.2 | 5685.1 | 5868.8 | 6001.9 | 6014.5 | 5689.3 |
| 42.5° | 6392.5 | 6449.5 | 6563.6 | 6802.3 | 6713.5 | 6312.3 | 5805.4 | 6006.1 | 6500.3 | 6578.4 | 6187.7 |
| 45° | 6561.5 | 6677.6 | 6819.2 | 7032.4 | 6981.7 | 6662.9 | 6105.3 | 6289.1 | 7032.4 | 7237.3 | 6656.5 |
| 47.5° | 6572.1 | 6724.1 | 6878.3 | 7195.1 | 7258.4 | 6850.8 | 6415.8 | 6736.7 | 7454.8 | 7676.6 | 6998.6 |
| 50° | 6529.9 | 6610.1 | 6918.4 | 7262.6 | 7406.3 | 7157.1 | 6850.8 | 7112.7 | 7864.5 | 8003.9 | 7171.8 |
| 52.5° | 6029.3 | 6090.5 | 6709.3 | 7326.0 | 7672.4 | 7503.4 | 7427.4 | 7636.4 | 8282.7 | 8386.1 | 7334.4 |
| 55° | 5026.2 | 5015.6 | 5866.7 | 7007.1 | 7794.8 | 8016.6 | 7970.1 | 8044.0 | 8766.2 | 8859.2 | 7374.6 |
| 57.5° | 3438.1 | 3630.3 | 4365.2 | 5835.0 | 7045.1 | 7896.1 | 7944.8 | 7822.3 | 8202.4 | 8238.3 | 6428.4 |
| 60° | 1854.2 | 1934.5 | 2525.8 | 3894.3 | 5364.1 | 6434.8 | 6561.5 | 6339.8 | 6310.2 | 6208.9 | 4589.0 |
| 62.5° | 737.1 | 777.2 | 1113.0 | 1928.1 | 2922.8 | 3911.2 | 4183.6 | 4092.7 | 3898.5 | 3632.4 | 2375.8 |
| 65° | 350.5 | 375.9 | 553.3 | 901.7 | 1296.7 | 1630.4 | 1902.8 | 1987.3 | 1465.6 | 1319.9 | 783.5 |
| 67.5° | 238.7 | 257.7 | 403.3 | 515.3 | 462.5 | 483.6 | 629.3 | 585.0 | 344.2 | 293.5 | 217.5 |
| 70° | 181.7 | 194.3 | 323.1 | 350.5 | 207.0 | 145.7 | 162.6 | 152.1 | 141.5 | 143.6 | 141.5 |
| 72.5° | 128.8 | 139.4 | 236.5 | 207.0 | 90.8 | 67.6 | 86.6 | 103.4 | 103.4 | 103.4 | 101.3 |
| 75° | 78.1 | 88.7 | 137.3 | 80.2 | 35.9 | 35.9 | 54.9 | 69.7 | 73.9 | 76.0 | 71.8 |
| 77.5° | 40.1 | 50.7 | 46.4 | 23.2 | 23.2 | 27.4 | 40.1 | 48.6 | 52.8 | 52.8 | 50.7 |
| 80° | 8.4 | 8.4 | 8.4 | 12.7 | 23.2 | 29.6 | 40.1 | 44.3 | 50.7 | 50.7 | 46.4 |
| 82.5° | 0.0 | 2.1 | 6.3 | 12.7 | 21.1 | 27.4 | 38.0 | 44.3 | 50.7 | 52.8 | 48.6 |
| 85° | 0.0 | 2.1 | 4.2 | 8.4 | 14.8 | 16.9 | 14.8 | 12.7 | 12.7 | 12.7 | 12.7 |
| 87.5° | 0.0 | 0.0 | 2.1 | 2.1 | 2.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 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° | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 | 3036.9 |
| 2.5° | 3066.4 | 3072.8 | 3062.2 | 3060.1 | 3051.7 | 3077.0 | 3015.7 | 3000.9 | 3039.0 | 3003.0 | 3011.5 |
| 5° | 3106.5 | 3121.3 | 3102.3 | 3070.7 | 3024.2 | 2952.3 | 2891.1 | 2810.9 | 2772.9 | 2745.4 | 2741.2 |
| 7.5° | 3136.1 | 3146.7 | 3127.7 | 3026.3 | 2886.9 | 2705.2 | 2570.1 | 2470.9 | 2392.7 | 2369.5 | 2331.5 |
| 10° | 3256.4 | 3258.5 | 3163.5 | 2939.7 | 2667.2 | 2428.6 | 2221.7 | 2069.6 | 1991.5 | 1942.9 | 1921.8 |
| 12.5° | 3336.8 | 3332.5 | 3140.3 | 2768.7 | 2405.4 | 2088.6 | 1852.1 | 1668.4 | 1596.6 | 1573.3 | 1558.5 |
| 15° | 3438.1 | 3414.9 | 3085.4 | 2593.3 | 2067.5 | 1725.4 | 1512.1 | 1385.4 | 1379.1 | 1364.3 | 1379.1 |
| 17.5° | 3518.3 | 3452.9 | 3005.1 | 2274.5 | 1744.4 | 1421.3 | 1281.9 | 1290.3 | 1307.3 | 1322.1 | 1324.2 |
| 20° | 3649.3 | 3514.1 | 2821.4 | 1995.7 | 1444.5 | 1218.5 | 1216.4 | 1254.4 | 1296.7 | 1313.6 | 1330.5 |
| 22.5° | 3748.5 | 3539.4 | 2625.0 | 1697.9 | 1199.5 | 1136.2 | 1172.1 | 1229.1 | 1260.7 | 1277.6 | 1303.0 |
| 25° | 3784.4 | 3469.8 | 2363.1 | 1400.2 | 1081.3 | 1098.2 | 1153.1 | 1191.1 | 1231.2 | 1250.2 | 1239.6 |
| 27.5° | 3820.3 | 3433.9 | 2050.6 | 1153.1 | 1017.9 | 1072.8 | 1119.3 | 1157.3 | 1170.0 | 1195.3 | 1212.2 |
| 30° | 3906.9 | 3309.3 | 1769.7 | 996.8 | 986.2 | 1056.0 | 1089.7 | 1102.4 | 1136.2 | 1151.0 | 1151.0 |
| 32.5° | 3976.6 | 3260.7 | 1471.9 | 922.9 | 982.0 | 1064.4 | 1068.6 | 1068.6 | 1072.8 | 1062.3 | 1058.1 |
| 35° | 4120.2 | 3093.9 | 1205.8 | 878.5 | 979.9 | 1066.5 | 1077.1 | 1041.2 | 944.0 | 906.0 | 895.4 |
| 37.5° | 4297.6 | 2986.1 | 1009.5 | 868.0 | 994.7 | 1091.8 | 1108.7 | 973.5 | 846.9 | 785.6 | 775.1 |
| 40° | 4513.0 | 2910.1 | 880.6 | 863.7 | 1028.5 | 1151.0 | 1100.3 | 920.7 | 756.1 | 667.3 | 663.1 |
| 42.5° | 4764.3 | 2840.4 | 794.1 | 861.6 | 1070.7 | 1212.2 | 1091.8 | 876.4 | 663.1 | 604.0 | 612.4 |
| 45° | 4964.9 | 2802.4 | 734.9 | 846.9 | 1085.5 | 1248.1 | 1098.2 | 798.3 | 625.1 | 587.1 | 591.3 |
| 47.5° | 5121.2 | 2722.1 | 686.3 | 821.5 | 1083.4 | 1260.7 | 1041.2 | 766.6 | 606.1 | 616.6 | 627.2 |
| 50° | 5125.5 | 2614.5 | 625.1 | 766.6 | 1051.7 | 1237.5 | 975.6 | 737.1 | 601.9 | 646.2 | 667.3 |
| 52.5° | 5068.5 | 2462.4 | 559.6 | 688.4 | 977.7 | 1157.3 | 916.5 | 724.4 | 582.9 | 578.6 | 604.0 |
| 55° | 4865.7 | 2177.3 | 449.9 | 557.5 | 825.7 | 954.5 | 863.7 | 701.1 | 525.9 | 477.3 | 481.5 |
| 57.5° | 3932.3 | 1560.6 | 331.5 | 399.1 | 585.0 | 699.0 | 779.3 | 690.5 | 473.1 | 405.4 | 407.5 |
| 60° | 2434.9 | 884.9 | 242.9 | 272.4 | 361.1 | 424.5 | 631.4 | 642.0 | 422.4 | 342.1 | 337.9 |
| 62.5° | 1250.2 | 437.2 | 188.0 | 192.2 | 221.8 | 249.2 | 432.9 | 538.5 | 382.2 | 325.2 | 325.2 |
| 65° | 418.1 | 215.4 | 164.8 | 147.8 | 147.8 | 154.2 | 261.9 | 373.8 | 323.1 | 272.4 | 272.4 |
| 67.5° | 179.5 | 160.5 | 143.6 | 128.8 | 118.2 | 111.9 | 147.8 | 217.5 | 240.8 | 207.0 | 198.5 |
| 70° | 139.4 | 135.1 | 124.6 | 107.7 | 92.9 | 84.4 | 86.6 | 111.9 | 137.3 | 133.0 | 128.8 |
| 72.5° | 103.4 | 103.4 | 99.2 | 84.4 | 71.8 | 61.2 | 57.0 | 59.1 | 65.4 | 67.6 | 69.7 |
| 75° | 71.8 | 73.9 | 73.9 | 65.4 | 52.8 | 44.3 | 38.0 | 31.7 | 25.3 | 21.1 | 19.0 |
| 77.5° | 48.6 | 50.7 | 54.9 | 48.6 | 40.1 | 29.6 | 23.2 | 16.9 | 10.6 | 4.2 | 4.2 |
| 80° | 42.2 | 48.6 | 52.8 | 48.6 | 42.2 | 31.7 | 23.2 | 12.7 | 6.3 | 0.0 | 0.0 |
| 82.5° | 44.3 | 48.6 | 54.9 | 46.4 | 40.1 | 29.6 | 23.2 | 14.8 | 6.3 | 2.1 | 0.0 |
| 85° | 10.6 | 10.6 | 12.7 | 14.8 | 19.0 | 21.1 | 16.9 | 10.6 | 6.3 | 2.1 | 0.0 |
| 87.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 2.1 | 2.1 | 2.1 | 2.1 | 0.0 | 0.0 |
| 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)