

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: McGRAW-EDISON

Report Number: P648502

Luminaire Tested: **GALN-SA6B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23216.7 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

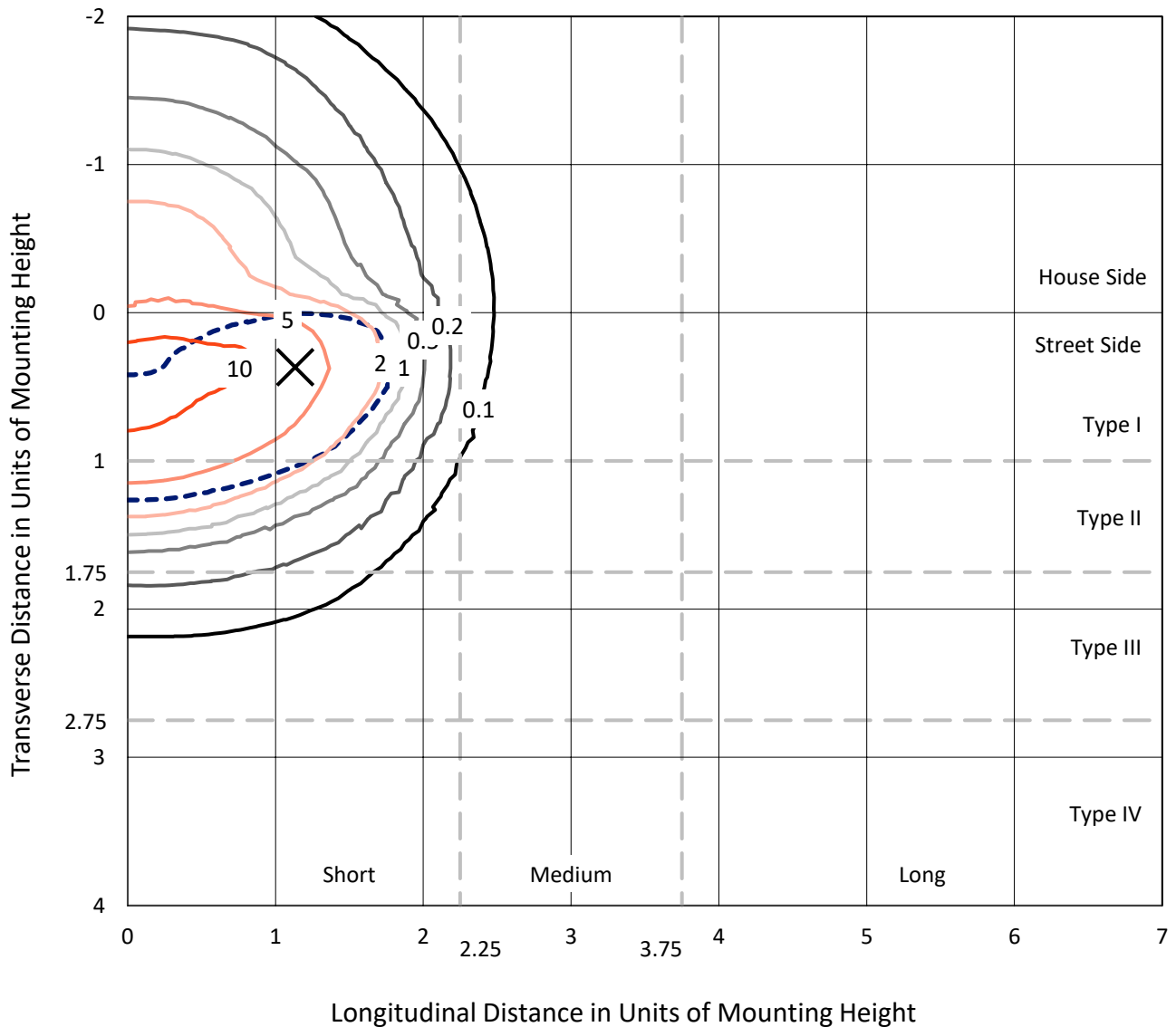
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

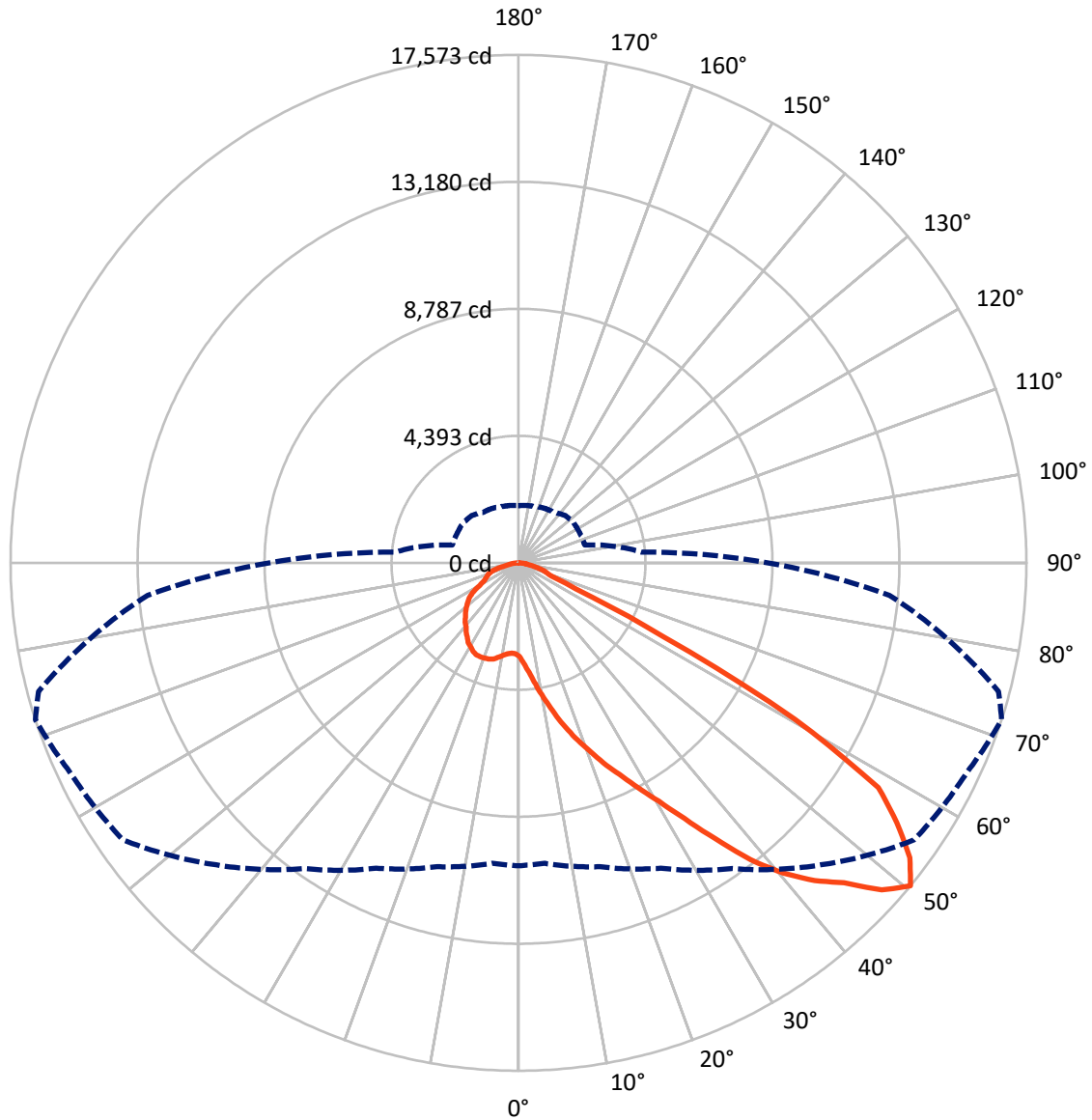
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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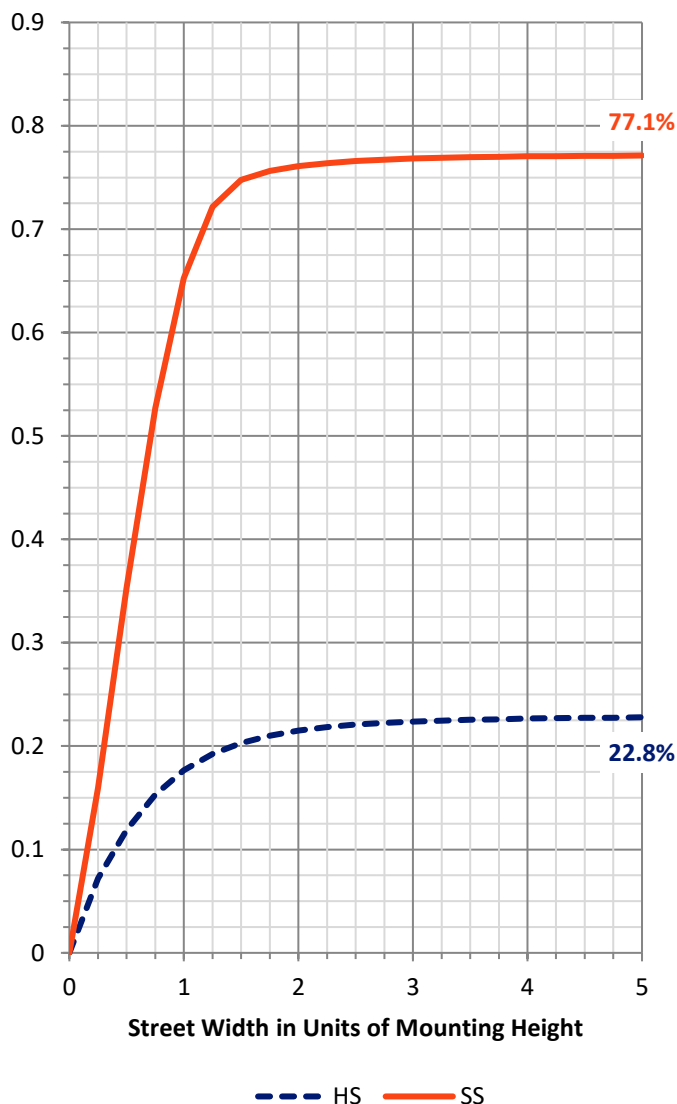
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5319.1 | 0.0 | 5319.1 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 17897.6 | 0.0 | 17897.6 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 23216.7 | 0.0 | 23216.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 380.2 | 1.6 |
| 10°-20° | 1421.2 | 6.1 |
| 20°-30° | 2755.5 | 11.9 |
| 30°-40° | 4565.0 | 19.7 |
| 40°-50° | 6387.4 | 27.5 |
| 50°-60° | 5388.6 | 23.2 |
| 60°-70° | 1642.4 | 7.1 |
| 70°-80° | 576.2 | 2.5 |
| 80°-90° | 100.2 | 0.4 |
| 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° | 23216.7 | 100.0 |
| 0°-180° | 23216.7 | 100.0 |

Coefficient of Utilization

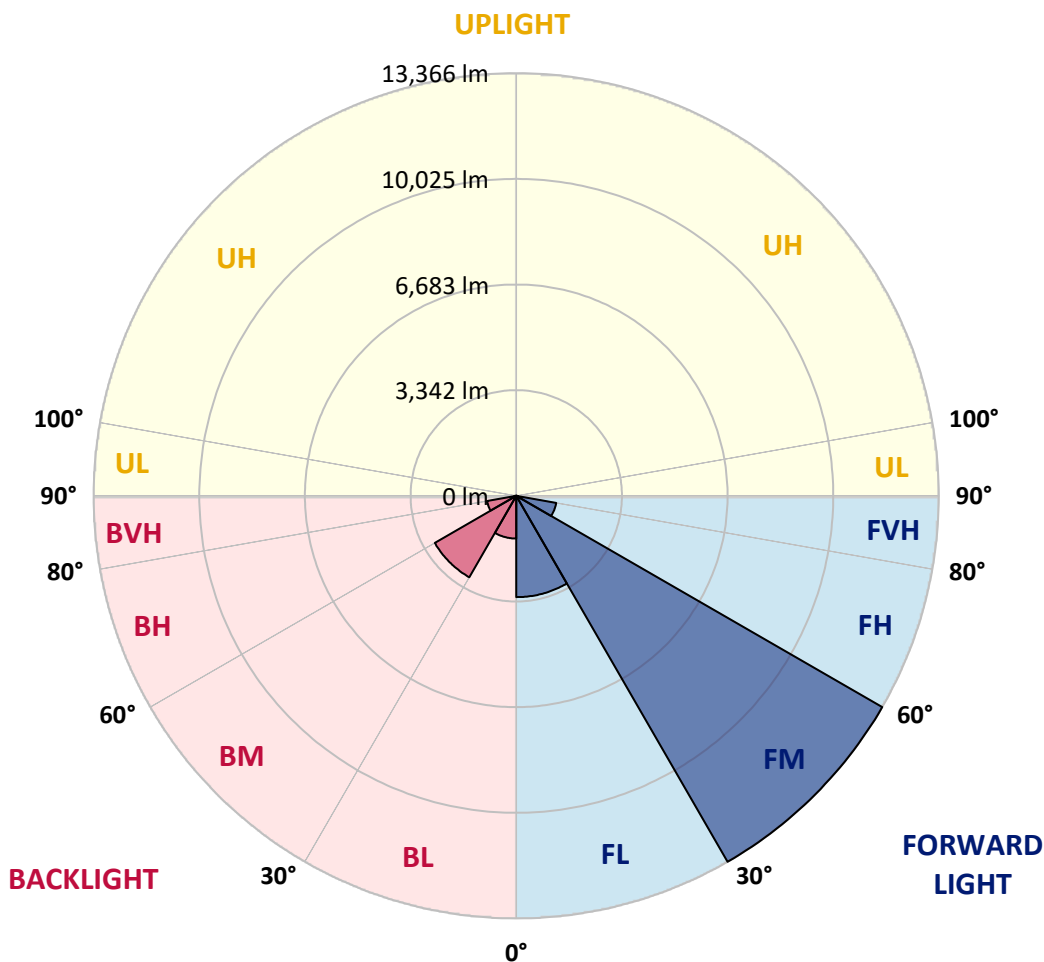


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3204.7 | 13.8 | | | |
| FM (30°-60°) | 13366.5 | 57.6 | | | |
| FH (60°-80°) | 1281.5 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 44.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1352.1 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2974.5 | 12.8 | B3/5000 | | |
| BH (60°-80°) | 937.1 | 4.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 55.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 |
| 2.5° | 4157.0 | 4131.2 | 4053.6 | 4027.8 | 3935.8 | 3769.2 | 3711.7 | 3542.2 | 3470.4 | 3404.3 | 3326.8 |
| 5° | 5257.3 | 5136.6 | 5128.0 | 4981.5 | 4768.9 | 4645.4 | 4277.7 | 4030.6 | 3803.7 | 3688.7 | 3476.1 |
| 7.5° | 5958.3 | 5961.2 | 5961.2 | 5840.6 | 5671.0 | 5357.9 | 5027.5 | 4582.2 | 4240.3 | 4070.8 | 3708.8 |
| 10° | 6624.8 | 6567.3 | 6535.8 | 6524.3 | 6409.3 | 6104.8 | 5751.4 | 5199.9 | 4731.6 | 4533.3 | 3884.1 |
| 12.5° | 7095.9 | 7047.2 | 7119.0 | 7081.6 | 6998.3 | 6800.0 | 6466.8 | 5837.7 | 5251.6 | 4984.4 | 4165.6 |
| 15° | 7320.0 | 7354.5 | 7412.0 | 7515.4 | 7478.0 | 7403.3 | 7035.6 | 6492.6 | 5811.8 | 5510.1 | 4415.6 |
| 17.5° | 7664.8 | 7570.0 | 7638.9 | 7768.2 | 7871.7 | 7837.1 | 7627.4 | 6966.7 | 6366.3 | 5995.7 | 4751.7 |
| 20° | 7906.1 | 7851.5 | 7886.0 | 8035.4 | 8113.0 | 8308.3 | 8199.1 | 7587.2 | 6897.8 | 6507.0 | 5148.1 |
| 22.5° | 8595.6 | 8515.1 | 8403.1 | 8426.1 | 8454.8 | 8592.7 | 8618.6 | 8268.1 | 7515.4 | 7101.7 | 5524.5 |
| 25° | 9446.0 | 9371.3 | 9239.1 | 9104.1 | 9020.8 | 8994.9 | 9084.0 | 8802.4 | 8107.2 | 7679.1 | 5929.6 |
| 27.5° | 10382.5 | 10256.1 | 10172.8 | 9894.1 | 9670.1 | 9635.6 | 9592.5 | 9440.2 | 8808.2 | 8345.7 | 6386.4 |
| 30° | 11293.2 | 11192.7 | 11080.6 | 10635.3 | 10402.6 | 10365.3 | 10152.7 | 10195.8 | 9569.5 | 9055.2 | 6903.5 |
| 32.5° | 11982.7 | 11991.3 | 11735.6 | 11399.5 | 11181.2 | 10982.9 | 10905.4 | 11028.9 | 10546.3 | 10132.6 | 7480.9 |
| 35° | 12540.1 | 12565.9 | 12321.7 | 12017.2 | 11781.6 | 11919.5 | 11885.0 | 11942.5 | 11712.7 | 11207.0 | 8153.1 |
| 37.5° | 13083.0 | 12953.7 | 12692.3 | 12545.8 | 12422.2 | 12649.2 | 12942.2 | 12991.1 | 13034.1 | 12439.5 | 8934.6 |
| 40° | 13172.1 | 13183.5 | 13031.3 | 13134.7 | 12979.6 | 13321.4 | 14002.3 | 13939.1 | 14114.4 | 13594.4 | 9782.1 |
| 42.5° | 13045.6 | 13071.5 | 13131.8 | 13278.3 | 13651.8 | 14062.7 | 15073.9 | 14815.3 | 15028.0 | 14565.4 | 10606.6 |
| 45° | 12838.8 | 12732.5 | 12807.2 | 13364.6 | 14010.9 | 14924.5 | 16053.5 | 15852.5 | 15783.5 | 15395.7 | 11589.1 |
| 47.5° | 11850.5 | 11959.7 | 12192.4 | 12879.0 | 13850.1 | 15073.9 | 16748.8 | 16702.8 | 16909.7 | 16636.7 | 12482.6 |
| 50° | 10480.2 | 10437.1 | 10885.3 | 11658.1 | 12910.7 | 14780.8 | 16711.4 | 17128.0 | 17573.3 | 17194.1 | 12881.9 |
| 52.5° | 7848.6 | 8078.4 | 8463.4 | 9423.0 | 11209.9 | 13183.5 | 15895.5 | 16590.8 | 16952.7 | 16872.3 | 12560.2 |
| 55° | 4961.4 | 5030.4 | 5263.1 | 6403.6 | 8012.4 | 10580.8 | 13626.0 | 15237.6 | 15884.0 | 16185.7 | 12264.2 |
| 57.5° | 2410.3 | 2281.0 | 2565.5 | 3481.9 | 4628.2 | 7116.1 | 10509.0 | 13272.6 | 14677.4 | 15223.3 | 11620.7 |
| 60° | 1258.3 | 1307.1 | 1419.2 | 1746.7 | 2393.1 | 3694.5 | 6550.1 | 8845.6 | 10991.6 | 11830.4 | 8808.2 |
| 62.5° | 1042.9 | 1060.1 | 1134.8 | 1298.5 | 1591.5 | 2125.9 | 3344.0 | 4312.1 | 5604.9 | 6360.5 | 5010.3 |
| 65° | 884.9 | 893.5 | 973.9 | 1083.0 | 1269.8 | 1496.8 | 1720.9 | 1801.3 | 2180.5 | 2238.0 | 1781.2 |
| 67.5° | 738.3 | 747.0 | 833.1 | 936.5 | 1057.2 | 1117.6 | 1175.0 | 1169.3 | 1212.3 | 1195.1 | 1192.3 |
| 70° | 568.8 | 577.5 | 666.5 | 775.6 | 836.0 | 801.6 | 979.6 | 1019.9 | 1037.1 | 1051.5 | 1074.4 |
| 72.5° | 410.8 | 428.1 | 497.0 | 574.6 | 542.9 | 623.4 | 807.3 | 867.6 | 890.6 | 899.2 | 927.9 |
| 75° | 298.8 | 304.5 | 321.7 | 298.8 | 344.8 | 433.8 | 568.8 | 643.5 | 672.3 | 680.9 | 724.0 |
| 77.5° | 132.2 | 135.0 | 137.9 | 172.3 | 221.2 | 270.1 | 339.0 | 399.3 | 439.6 | 451.0 | 462.5 |
| 80° | 69.0 | 71.8 | 89.0 | 117.8 | 158.0 | 198.3 | 247.0 | 281.6 | 307.4 | 310.3 | 321.7 |
| 82.5° | 43.1 | 46.0 | 63.2 | 83.3 | 112.0 | 146.5 | 181.0 | 209.7 | 229.8 | 232.7 | 235.6 |
| 85° | 20.1 | 25.8 | 37.3 | 51.7 | 74.7 | 94.8 | 97.6 | 83.3 | 89.0 | 91.9 | 86.2 |
| 87.5° | 5.7 | 8.6 | 11.5 | 8.6 | 11.5 | 11.5 | 14.3 | 17.2 | 17.2 | 17.2 | 20.1 |
| 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° | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 | 3232.0 |
| 2.5° | 3283.7 | 3257.8 | 3157.3 | 3119.9 | 3022.2 | 3039.4 | 2987.8 | 2984.9 | 2973.4 | 2970.5 | 2967.6 |
| 5° | 3364.1 | 3283.7 | 3163.0 | 3071.1 | 3016.5 | 3010.8 | 2973.4 | 2973.4 | 2984.9 | 2993.5 | 2973.4 |
| 7.5° | 3496.3 | 3404.3 | 3200.4 | 3114.1 | 3065.4 | 3056.8 | 3030.8 | 3010.8 | 3036.6 | 3028.0 | 3005.0 |
| 10° | 3648.5 | 3487.6 | 3272.2 | 3197.5 | 3117.0 | 3096.9 | 3096.9 | 3105.5 | 3062.5 | 3076.8 | 3053.9 |
| 12.5° | 3818.1 | 3602.6 | 3364.1 | 3278.0 | 3183.1 | 3171.6 | 3165.9 | 3102.7 | 3125.7 | 3114.1 | 3056.8 |
| 15° | 4033.5 | 3734.8 | 3481.9 | 3335.4 | 3254.9 | 3203.3 | 3128.6 | 3117.0 | 3102.7 | 3074.0 | 3048.1 |
| 17.5° | 4266.2 | 3878.4 | 3536.5 | 3352.6 | 3232.0 | 3194.6 | 3137.2 | 3076.8 | 3033.7 | 3039.4 | 3019.4 |
| 20° | 4464.4 | 4010.5 | 3556.6 | 3369.9 | 3214.8 | 3142.9 | 3053.9 | 3016.5 | 2970.5 | 2967.6 | 2964.8 |
| 22.5° | 4700.0 | 4188.7 | 3585.4 | 3323.9 | 3163.0 | 3088.3 | 3028.0 | 2961.9 | 2930.3 | 2890.1 | 2910.2 |
| 25° | 4981.5 | 4257.6 | 3591.1 | 3298.1 | 3125.7 | 2993.5 | 2961.9 | 2890.1 | 2878.6 | 2821.1 | 2832.7 |
| 27.5° | 5185.5 | 4294.9 | 3545.1 | 3217.6 | 3039.4 | 2938.9 | 2881.4 | 2829.8 | 2809.6 | 2766.6 | 2755.1 |
| 30° | 5458.4 | 4352.4 | 3447.5 | 3117.0 | 2953.3 | 2841.3 | 2806.8 | 2795.3 | 2737.8 | 2691.9 | 2686.2 |
| 32.5° | 5768.7 | 4389.7 | 3384.2 | 3013.6 | 2864.2 | 2778.1 | 2795.3 | 2740.7 | 2668.9 | 2628.7 | 2617.2 |
| 35° | 6015.8 | 4404.1 | 3226.2 | 2895.8 | 2803.9 | 2749.3 | 2729.2 | 2717.7 | 2614.3 | 2576.9 | 2548.2 |
| 37.5° | 6392.1 | 4372.5 | 3094.1 | 2812.5 | 2737.8 | 2717.7 | 2700.5 | 2622.9 | 2505.1 | 2450.6 | 2410.3 |
| 40° | 6831.7 | 4363.9 | 2924.6 | 2694.8 | 2674.6 | 2697.6 | 2645.9 | 2525.3 | 2361.5 | 2301.2 | 2272.4 |
| 42.5° | 7253.9 | 4424.2 | 2818.3 | 2631.5 | 2605.7 | 2614.3 | 2542.5 | 2361.5 | 2281.0 | 2246.6 | 2200.6 |
| 45° | 7960.7 | 4550.6 | 2643.0 | 2533.9 | 2522.4 | 2516.6 | 2430.4 | 2240.9 | 2194.8 | 2151.8 | 2143.1 |
| 47.5° | 8598.4 | 4467.3 | 2531.0 | 2433.3 | 2444.8 | 2413.2 | 2229.4 | 2169.0 | 2117.3 | 2074.2 | 2059.8 |
| 50° | 8635.8 | 4269.1 | 2373.0 | 2355.7 | 2358.6 | 2304.1 | 2128.8 | 2088.6 | 2022.5 | 1993.8 | 1973.6 |
| 52.5° | 8440.4 | 3944.4 | 2226.5 | 2232.2 | 2240.9 | 2151.8 | 2005.3 | 1976.5 | 1922.0 | 1881.7 | 1870.2 |
| 55° | 7891.8 | 3438.8 | 2082.9 | 2105.8 | 2128.8 | 1959.3 | 1913.3 | 1841.5 | 1798.4 | 1740.9 | 1743.8 |
| 57.5° | 6952.3 | 2769.5 | 1881.7 | 1919.1 | 1967.9 | 1781.2 | 1746.7 | 1657.6 | 1594.4 | 1548.5 | 1542.7 |
| 60° | 4659.8 | 1970.8 | 1580.1 | 1594.4 | 1703.6 | 1628.9 | 1626.1 | 1537.0 | 1450.8 | 1410.6 | 1387.6 |
| 62.5° | 2749.3 | 1505.4 | 1364.6 | 1350.2 | 1347.4 | 1390.5 | 1462.3 | 1430.7 | 1318.7 | 1241.1 | 1264.1 |
| 65° | 1439.3 | 1301.4 | 1269.8 | 1220.9 | 1192.3 | 1180.8 | 1235.3 | 1249.7 | 1175.0 | 1091.7 | 1085.9 |
| 67.5° | 1209.5 | 1209.5 | 1183.6 | 1166.4 | 1126.2 | 1077.3 | 1042.9 | 996.9 | 985.4 | 962.4 | 933.6 |
| 70° | 1100.3 | 1129.0 | 1120.4 | 1080.2 | 1045.7 | 991.1 | 902.1 | 827.4 | 755.6 | 729.7 | 747.0 |
| 72.5° | 959.6 | 988.3 | 988.3 | 968.2 | 922.2 | 838.9 | 752.7 | 666.5 | 606.2 | 560.2 | 554.4 |
| 75° | 738.3 | 752.7 | 787.1 | 764.2 | 703.8 | 652.2 | 563.1 | 474.0 | 416.6 | 373.5 | 364.9 |
| 77.5° | 471.1 | 494.2 | 494.2 | 491.3 | 448.2 | 399.3 | 341.9 | 278.7 | 235.6 | 204.0 | 195.4 |
| 80° | 313.1 | 327.5 | 339.0 | 327.5 | 298.8 | 261.4 | 218.3 | 175.2 | 143.7 | 117.8 | 112.0 |
| 82.5° | 229.8 | 247.0 | 255.6 | 244.2 | 215.5 | 186.7 | 155.1 | 123.6 | 91.9 | 71.8 | 66.1 |
| 85° | 89.0 | 91.9 | 103.4 | 123.6 | 120.7 | 117.8 | 94.8 | 69.0 | 51.7 | 37.3 | 34.5 |
| 87.5° | 23.0 | 20.1 | 23.0 | 23.0 | 20.1 | 17.2 | 17.2 | 17.2 | 17.2 | 8.6 | 11.5 |
| 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)