

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: P648499

Luminaire Tested: **GALN-SA6B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22161.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

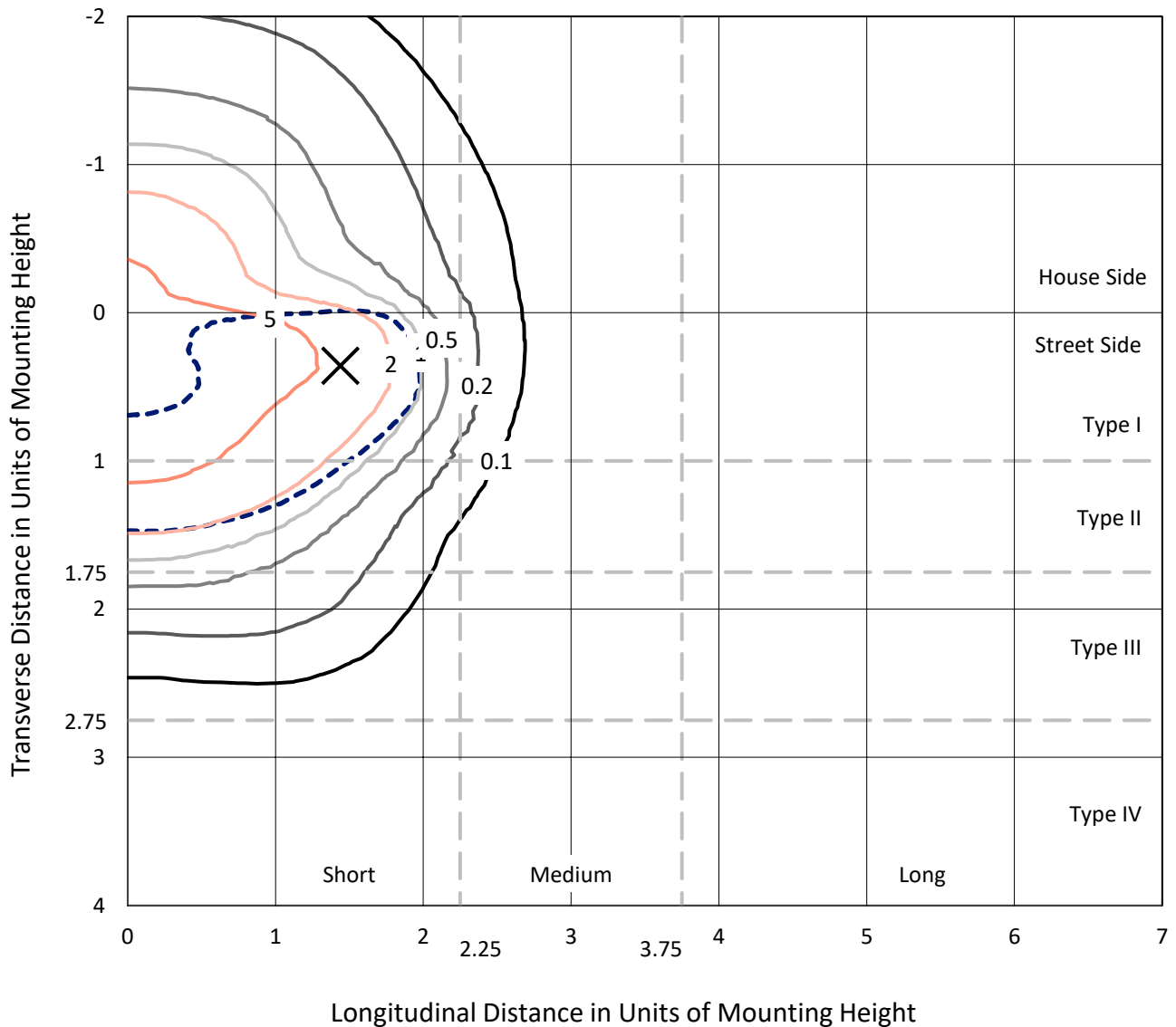
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

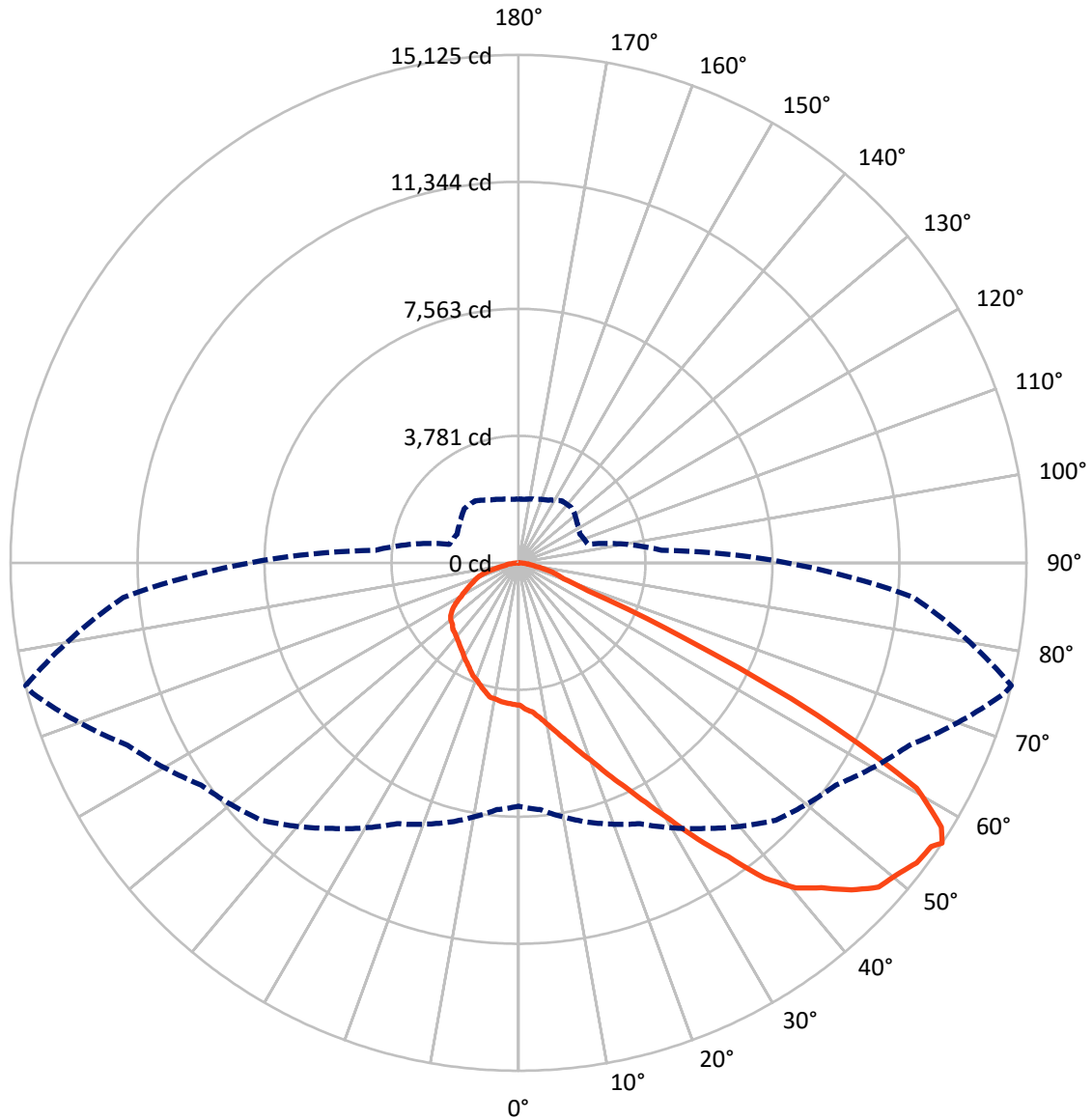
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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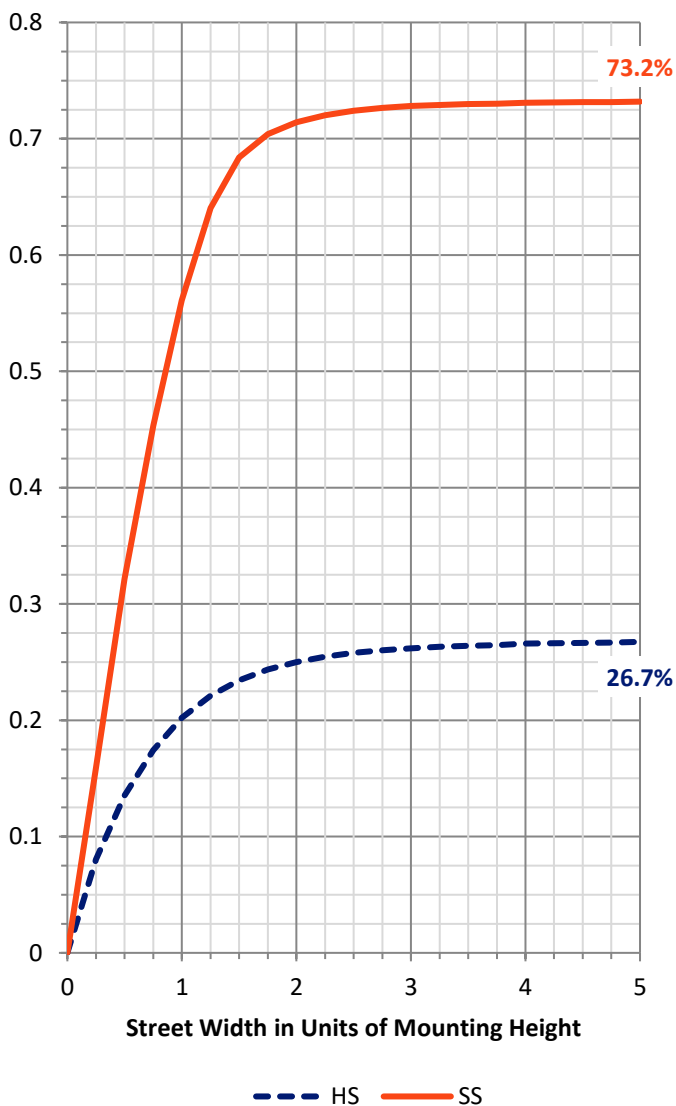
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5958.5 | 0.0 | 5958.5 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 16202.7 | 0.0 | 16202.7 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 22161.2 | 0.0 | 22161.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 420.5 | 1.9 |
| 10°-20° | 1320.9 | 6.0 |
| 20°-30° | 2310.2 | 10.4 |
| 30°-40° | 3617.0 | 16.3 |
| 40°-50° | 5261.8 | 23.7 |
| 50°-60° | 5783.0 | 26.1 |
| 60°-70° | 2581.3 | 11.6 |
| 70°-80° | 745.6 | 3.4 |
| 80°-90° | 120.9 | 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° | 22161.2 | 100.0 |
| 0°-180° | 22161.2 | 100.0 |

Coefficient of Utilization

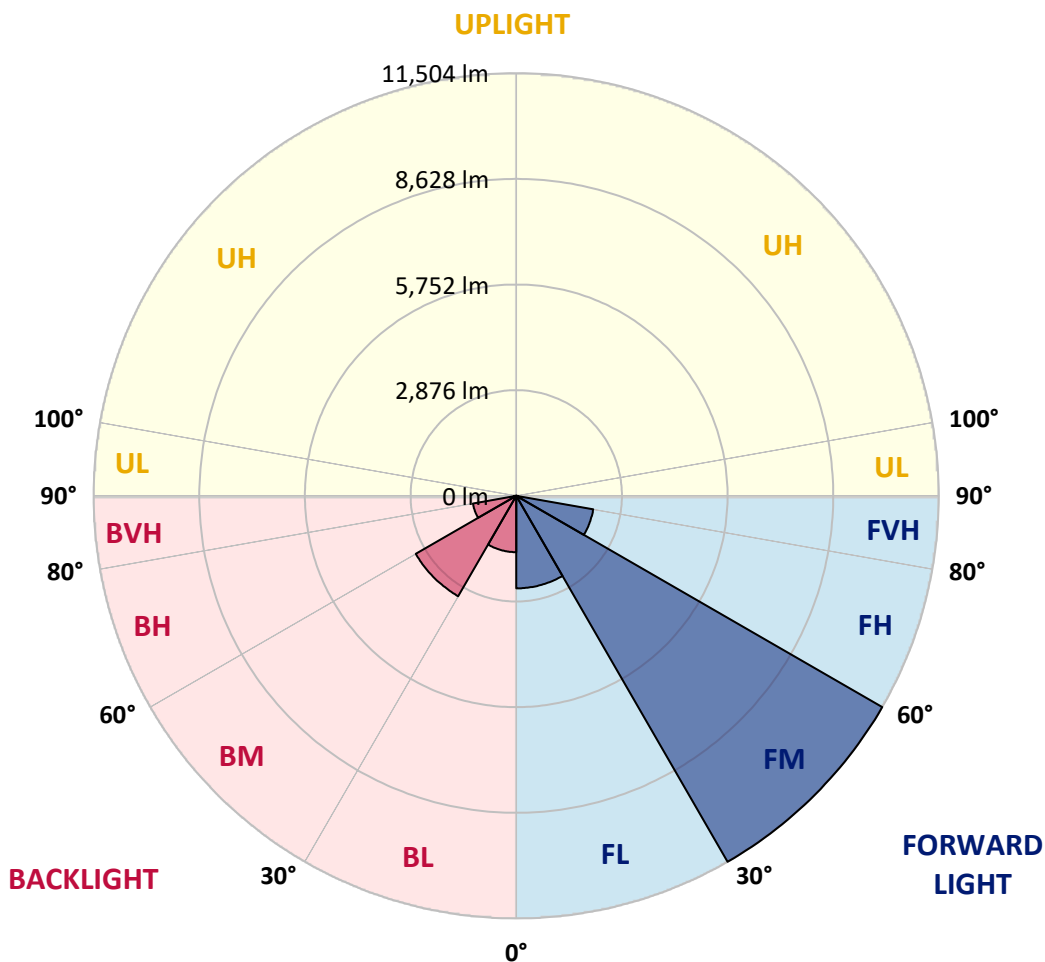


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2518.4 | 11.4 | | | |
| FM (30°-60°) | 11504.3 | 51.9 | | | |
| FH (60°-80°) | 2128.0 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 52.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1533.2 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 3157.5 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1198.9 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 68.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 |
| 2.5° | 4671.2 | 4596.5 | 4590.7 | 4570.6 | 4582.1 | 4530.4 | 4475.9 | 4404.0 | 4329.4 | 4375.3 | 4266.1 |
| 5° | 4998.7 | 4898.1 | 4938.4 | 4869.4 | 4878.0 | 4809.1 | 4697.1 | 4613.7 | 4521.8 | 4467.2 | 4389.7 |
| 7.5° | 5113.6 | 5122.2 | 5151.0 | 5139.5 | 5082.0 | 5082.0 | 5007.3 | 4860.8 | 4700.0 | 4668.3 | 4539.1 |
| 10° | 5268.7 | 5271.6 | 5240.0 | 5248.6 | 5329.1 | 5291.7 | 5225.7 | 5162.5 | 4955.6 | 4918.3 | 4688.4 |
| 12.5° | 5323.3 | 5271.6 | 5323.3 | 5369.3 | 5464.1 | 5515.8 | 5501.4 | 5455.5 | 5234.3 | 5208.4 | 4872.3 |
| 15° | 5331.9 | 5300.4 | 5343.4 | 5446.9 | 5530.2 | 5748.5 | 5857.7 | 5826.1 | 5533.1 | 5535.9 | 5079.2 |
| 17.5° | 5291.7 | 5334.8 | 5352.0 | 5441.1 | 5633.6 | 5837.6 | 6153.6 | 6196.7 | 5955.3 | 5918.0 | 5340.5 |
| 20° | 5346.3 | 5314.7 | 5337.7 | 5418.1 | 5673.8 | 5992.7 | 6406.3 | 6690.8 | 6351.8 | 6325.9 | 5610.6 |
| 22.5° | 5556.0 | 5512.9 | 5507.2 | 5558.9 | 5742.8 | 6073.1 | 6673.5 | 7184.9 | 6834.4 | 6848.8 | 5946.7 |
| 25° | 5719.7 | 5742.8 | 5722.6 | 5719.7 | 5834.7 | 6193.8 | 7026.9 | 7773.9 | 7489.4 | 7406.1 | 6343.2 |
| 27.5° | 6001.3 | 6055.9 | 6015.6 | 6070.3 | 6044.4 | 6374.8 | 7279.7 | 8425.9 | 8196.1 | 8084.1 | 6702.2 |
| 30° | 6392.0 | 6420.8 | 6383.4 | 6383.4 | 6305.8 | 6627.5 | 7509.5 | 9106.8 | 9012.0 | 8859.7 | 7124.6 |
| 32.5° | 6906.2 | 6949.4 | 6874.7 | 6831.5 | 6820.1 | 7003.9 | 7923.2 | 9779.0 | 9940.0 | 9810.7 | 7684.8 |
| 35° | 7587.1 | 7561.3 | 7472.2 | 7432.0 | 7276.8 | 7581.3 | 8538.0 | 10551.9 | 10974.1 | 10744.3 | 8362.8 |
| 37.5° | 8187.5 | 8147.3 | 8141.6 | 7917.5 | 7954.8 | 8204.7 | 9060.9 | 11137.9 | 11976.8 | 11910.7 | 9078.1 |
| 40° | 8747.7 | 8785.0 | 8845.4 | 8719.0 | 8661.5 | 8937.3 | 9669.9 | 11586.1 | 12755.3 | 12729.5 | 9629.6 |
| 42.5° | 9348.2 | 9313.6 | 9420.0 | 9313.6 | 9227.5 | 9618.1 | 10330.7 | 11896.3 | 13439.0 | 13226.4 | 10207.1 |
| 45° | 10218.6 | 10109.4 | 10146.7 | 10155.4 | 10092.2 | 10235.8 | 10603.5 | 12120.4 | 13918.8 | 13895.8 | 10629.4 |
| 47.5° | 10945.4 | 10948.3 | 10885.1 | 10836.3 | 10643.8 | 10787.4 | 10908.1 | 12261.2 | 14470.4 | 14433.0 | 10793.2 |
| 50° | 11215.5 | 11178.1 | 11362.0 | 11468.3 | 11479.7 | 11186.7 | 11146.5 | 12338.7 | 14760.5 | 14596.8 | 10956.9 |
| 52.5° | 10244.5 | 10278.9 | 10569.1 | 11201.1 | 11565.9 | 11597.6 | 11425.1 | 12499.6 | 14878.3 | 14843.8 | 11089.1 |
| 55° | 8245.0 | 8411.6 | 8888.5 | 9618.1 | 10482.9 | 11433.8 | 11726.8 | 12666.2 | 14941.5 | 14912.8 | 11675.1 |
| 56° | 7248.1 | 7377.3 | 7997.9 | 8569.6 | 9655.5 | 10839.1 | 11537.2 | 12844.3 | 14990.3 | 15125.4 | 11813.0 |
| 57.5° | 5834.7 | 5984.1 | 6429.4 | 7078.6 | 8359.9 | 9707.2 | 11014.4 | 12626.0 | 14800.7 | 14852.4 | 11913.6 |
| 60° | 3648.5 | 3662.9 | 4197.2 | 4625.3 | 5527.3 | 6843.0 | 8405.8 | 10985.6 | 13697.6 | 13622.9 | 10701.3 |
| 62.5° | 2393.1 | 2395.9 | 2881.4 | 3231.9 | 3642.8 | 3944.4 | 4947.0 | 7285.4 | 10106.6 | 9974.4 | 7618.7 |
| 65° | 1680.6 | 1718.0 | 2094.3 | 2562.5 | 2729.1 | 2571.1 | 2539.6 | 3840.9 | 5645.0 | 5455.5 | 4093.8 |
| 67.5° | 1229.5 | 1232.4 | 1565.7 | 2068.5 | 2309.8 | 1956.4 | 1588.6 | 1875.9 | 2235.1 | 2229.3 | 1896.0 |
| 70° | 813.0 | 847.4 | 1103.2 | 1545.6 | 1821.3 | 1571.4 | 1298.5 | 1341.6 | 1422.0 | 1422.0 | 1410.6 |
| 72.5° | 474.0 | 505.6 | 675.1 | 979.6 | 1022.8 | 982.5 | 1028.5 | 1149.1 | 1200.8 | 1198.0 | 1183.6 |
| 75° | 270.1 | 284.4 | 321.7 | 407.9 | 508.5 | 600.4 | 755.5 | 870.5 | 922.1 | 953.8 | 916.4 |
| 77.5° | 158.0 | 166.6 | 189.6 | 232.7 | 264.3 | 324.6 | 410.8 | 491.3 | 560.2 | 551.5 | 557.3 |
| 80° | 83.3 | 83.3 | 106.3 | 137.9 | 183.8 | 229.8 | 273.0 | 318.9 | 356.3 | 364.9 | 373.5 |
| 82.5° | 48.9 | 51.7 | 69.0 | 100.5 | 132.2 | 163.7 | 209.7 | 241.3 | 275.8 | 278.7 | 284.4 |
| 85° | 25.8 | 28.7 | 43.1 | 66.1 | 89.0 | 100.5 | 103.4 | 97.6 | 106.3 | 100.5 | 114.9 |
| 87.5° | 8.6 | 8.6 | 14.3 | 11.5 | 11.5 | 14.3 | 17.2 | 17.2 | 23.0 | 23.0 | 23.0 |
| 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° | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 | 4240.3 |
| 2.5° | 4263.3 | 4263.3 | 4214.4 | 4122.5 | 4108.1 | 4070.7 | 4036.3 | 4033.4 | 4007.6 | 3984.6 | 3973.1 |
| 5° | 4343.7 | 4254.7 | 4182.8 | 4099.5 | 4001.8 | 3955.9 | 3904.1 | 3846.7 | 3823.7 | 3846.7 | 3843.8 |
| 7.5° | 4435.6 | 4360.9 | 4145.4 | 3990.3 | 3878.3 | 3832.3 | 3774.8 | 3714.6 | 3720.3 | 3720.3 | 3680.1 |
| 10° | 4524.6 | 4424.1 | 4079.4 | 3881.2 | 3717.4 | 3682.9 | 3651.4 | 3674.3 | 3703.0 | 3708.8 | 3682.9 |
| 12.5° | 4674.0 | 4447.1 | 4047.8 | 3772.0 | 3668.6 | 3593.9 | 3614.0 | 3677.2 | 3737.5 | 3720.3 | 3740.4 |
| 15° | 4786.1 | 4467.2 | 3904.1 | 3660.0 | 3530.7 | 3565.2 | 3637.0 | 3680.1 | 3780.6 | 3769.1 | 3789.3 |
| 17.5° | 4895.2 | 4478.7 | 3763.4 | 3510.6 | 3456.0 | 3550.8 | 3605.4 | 3728.9 | 3760.5 | 3829.5 | 3855.3 |
| 20° | 5119.3 | 4501.7 | 3619.7 | 3418.7 | 3401.4 | 3510.6 | 3605.4 | 3662.9 | 3731.8 | 3792.1 | 3792.1 |
| 22.5° | 5234.3 | 4490.2 | 3524.9 | 3298.0 | 3352.6 | 3421.6 | 3507.7 | 3605.4 | 3605.4 | 3662.9 | 3665.7 |
| 25° | 5377.9 | 4444.2 | 3375.6 | 3240.5 | 3280.8 | 3346.9 | 3444.5 | 3410.0 | 3447.4 | 3447.4 | 3493.4 |
| 27.5° | 5541.7 | 4346.6 | 3246.2 | 3137.1 | 3217.6 | 3289.4 | 3303.7 | 3280.8 | 3237.6 | 3231.9 | 3214.7 |
| 30° | 5673.8 | 4225.9 | 3151.5 | 3102.6 | 3168.7 | 3209.0 | 3162.9 | 3114.1 | 3039.4 | 3033.7 | 2993.5 |
| 32.5° | 5854.8 | 4076.5 | 3033.7 | 3016.4 | 3091.1 | 3094.0 | 3079.6 | 3005.0 | 2895.8 | 2849.8 | 2803.8 |
| 35° | 6159.3 | 3990.3 | 2944.6 | 2970.5 | 2993.5 | 2984.9 | 2959.0 | 2878.5 | 2769.4 | 2749.3 | 2732.0 |
| 37.5° | 6383.4 | 3927.1 | 2852.7 | 2884.3 | 2904.4 | 2915.9 | 2838.4 | 2749.3 | 2752.2 | 2711.9 | 2700.4 |
| 40° | 6636.2 | 3886.9 | 2778.0 | 2792.3 | 2795.2 | 2832.6 | 2737.8 | 2694.7 | 2714.8 | 2689.0 | 2706.2 |
| 42.5° | 6960.8 | 3898.4 | 2700.4 | 2689.0 | 2743.6 | 2729.1 | 2683.2 | 2625.7 | 2637.2 | 2559.7 | 2571.1 |
| 45° | 7133.2 | 3976.0 | 2654.4 | 2602.8 | 2663.1 | 2660.2 | 2599.9 | 2545.3 | 2476.4 | 2327.0 | 2332.7 |
| 47.5° | 7248.1 | 3996.1 | 2545.3 | 2510.8 | 2574.0 | 2611.4 | 2542.4 | 2416.0 | 2318.4 | 2212.1 | 2186.2 |
| 50° | 7365.9 | 4033.4 | 2493.6 | 2421.8 | 2447.7 | 2536.7 | 2450.5 | 2329.8 | 2235.1 | 2140.3 | 2154.6 |
| 52.5° | 7469.4 | 4105.3 | 2393.1 | 2286.8 | 2332.7 | 2430.4 | 2384.5 | 2237.9 | 2134.5 | 2056.9 | 2033.9 |
| 55° | 7929.0 | 4266.1 | 2223.6 | 2085.7 | 2194.8 | 2318.4 | 2292.5 | 2114.4 | 2002.4 | 1962.1 | 1956.4 |
| 56° | 8000.8 | 4271.9 | 2134.5 | 2016.7 | 2117.2 | 2281.0 | 2249.4 | 2059.8 | 1959.2 | 1896.0 | 1898.9 |
| 57.5° | 8012.3 | 4202.9 | 2008.1 | 1953.5 | 2039.7 | 2226.5 | 2186.2 | 2016.7 | 1878.8 | 1821.3 | 1804.1 |
| 60° | 7049.9 | 3280.8 | 1850.1 | 1815.6 | 1916.2 | 2059.8 | 2045.4 | 1898.9 | 1743.8 | 1677.7 | 1709.3 |
| 62.5° | 4806.2 | 2404.5 | 1726.6 | 1720.8 | 1772.6 | 1913.3 | 1875.9 | 1743.8 | 1614.5 | 1571.4 | 1551.3 |
| 65° | 2798.1 | 1824.2 | 1605.9 | 1582.9 | 1626.0 | 1700.7 | 1726.6 | 1588.6 | 1453.6 | 1424.9 | 1416.3 |
| 67.5° | 1651.9 | 1508.2 | 1450.7 | 1413.4 | 1399.1 | 1445.0 | 1465.1 | 1384.7 | 1249.7 | 1209.4 | 1244.0 |
| 70° | 1381.8 | 1341.6 | 1344.5 | 1281.3 | 1246.8 | 1215.2 | 1198.0 | 1126.1 | 1014.1 | 962.4 | 948.1 |
| 72.5° | 1192.2 | 1175.0 | 1163.5 | 1106.1 | 1074.4 | 1002.6 | 927.9 | 856.1 | 772.8 | 729.7 | 732.6 |
| 75° | 910.7 | 904.9 | 910.7 | 882.0 | 827.4 | 769.9 | 700.9 | 609.0 | 545.8 | 491.3 | 502.8 |
| 77.5° | 542.9 | 560.2 | 568.8 | 557.3 | 534.3 | 482.6 | 439.6 | 379.2 | 318.9 | 275.8 | 270.1 |
| 80° | 373.5 | 387.8 | 402.2 | 387.8 | 364.9 | 327.5 | 281.6 | 235.6 | 192.5 | 169.5 | 163.7 |
| 82.5° | 284.4 | 298.8 | 307.4 | 293.0 | 264.3 | 224.1 | 192.5 | 160.9 | 126.4 | 103.4 | 97.6 |
| 85° | 103.4 | 117.8 | 114.9 | 137.9 | 149.4 | 143.6 | 123.6 | 94.8 | 71.8 | 51.7 | 48.9 |
| 87.5° | 28.7 | 25.8 | 28.7 | 28.7 | 28.7 | 25.8 | 23.0 | 23.0 | 23.0 | 14.3 | 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)