

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: P652048

Luminaire Tested: **GALN-SA8A-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28023.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

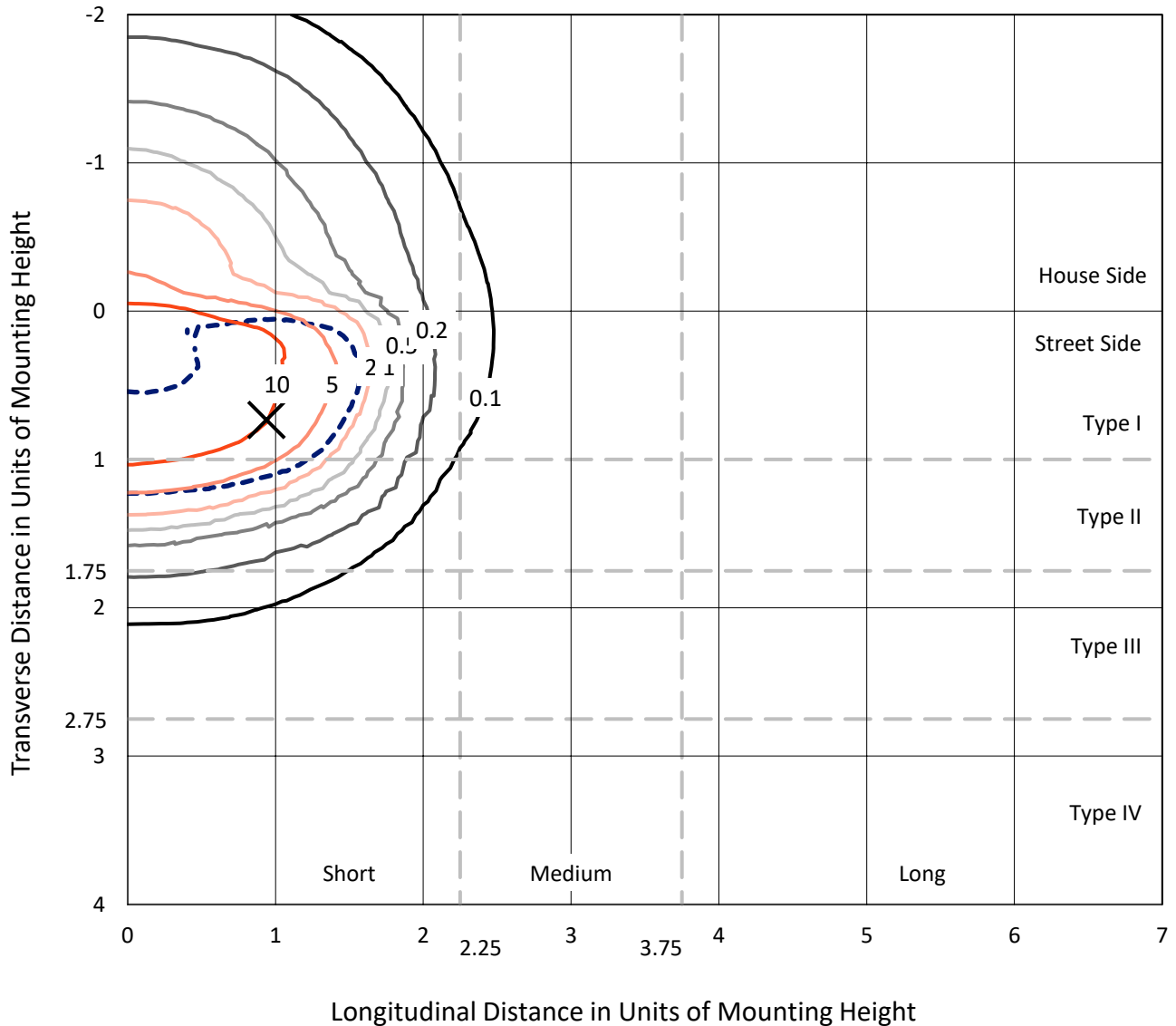
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

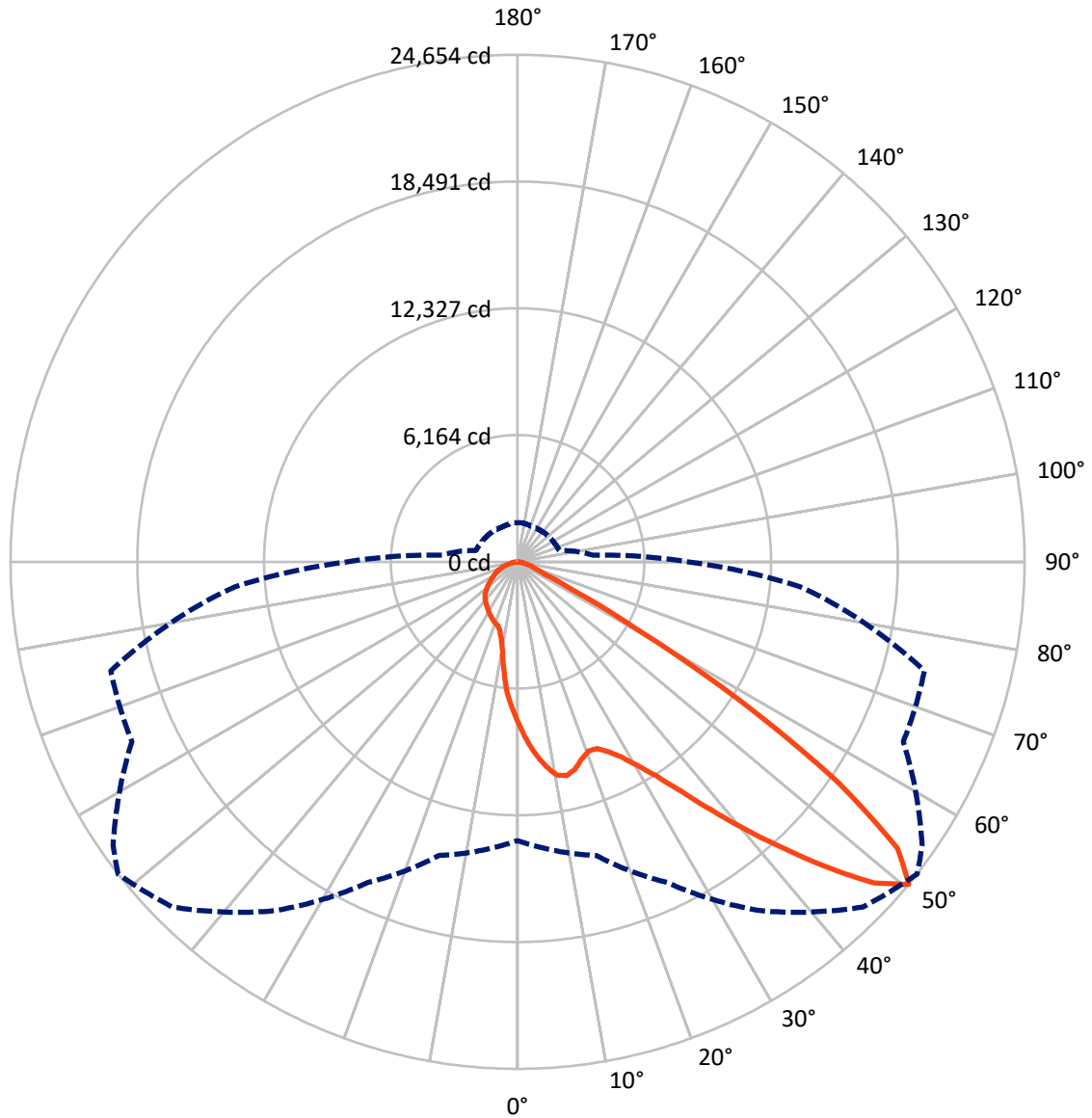
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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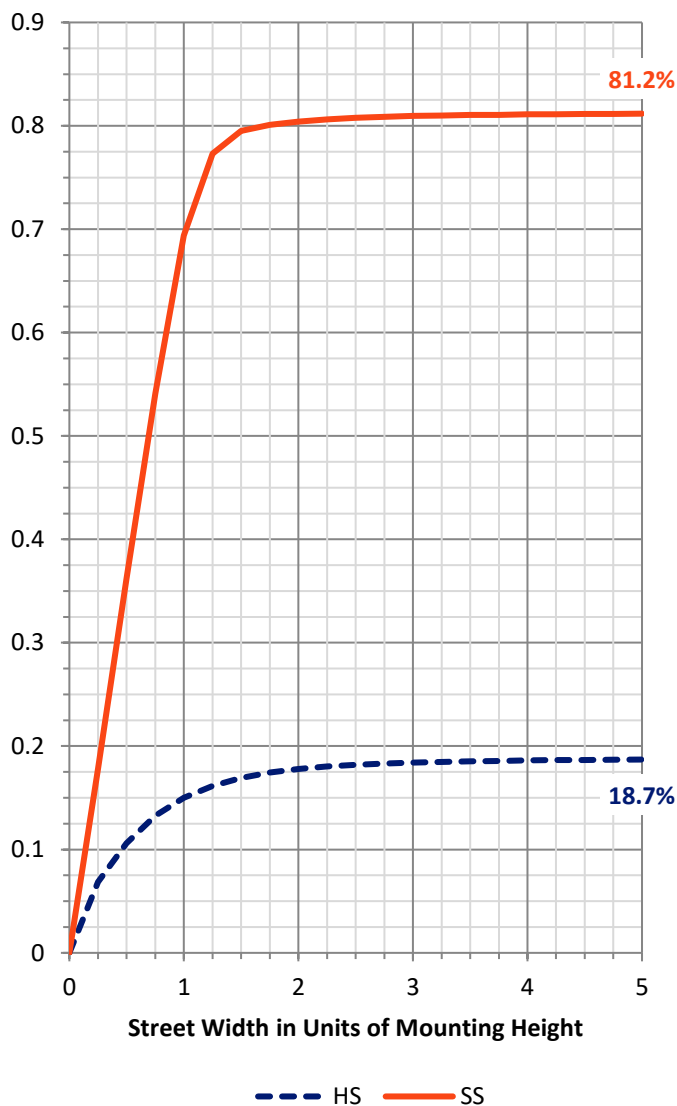
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5267.8 | 0.0 | 5267.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 22756.0 | 0.0 | 22756.0 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 28023.8 | 0.0 | 28023.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 728.1 | 2.6 |
| 10°-20° | 1951.5 | 7.0 |
| 20°-30° | 3287.2 | 11.7 |
| 30°-40° | 5516.1 | 19.7 |
| 40°-50° | 8438.3 | 30.1 |
| 50°-60° | 6152.2 | 22.0 |
| 60°-70° | 1369.2 | 4.9 |
| 70°-80° | 493.8 | 1.8 |
| 80°-90° | 87.4 | 0.3 |
| 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° | 28023.8 | 100.0 |
| 0°-180° | 28023.8 | 100.0 |

Coefficient of Utilization

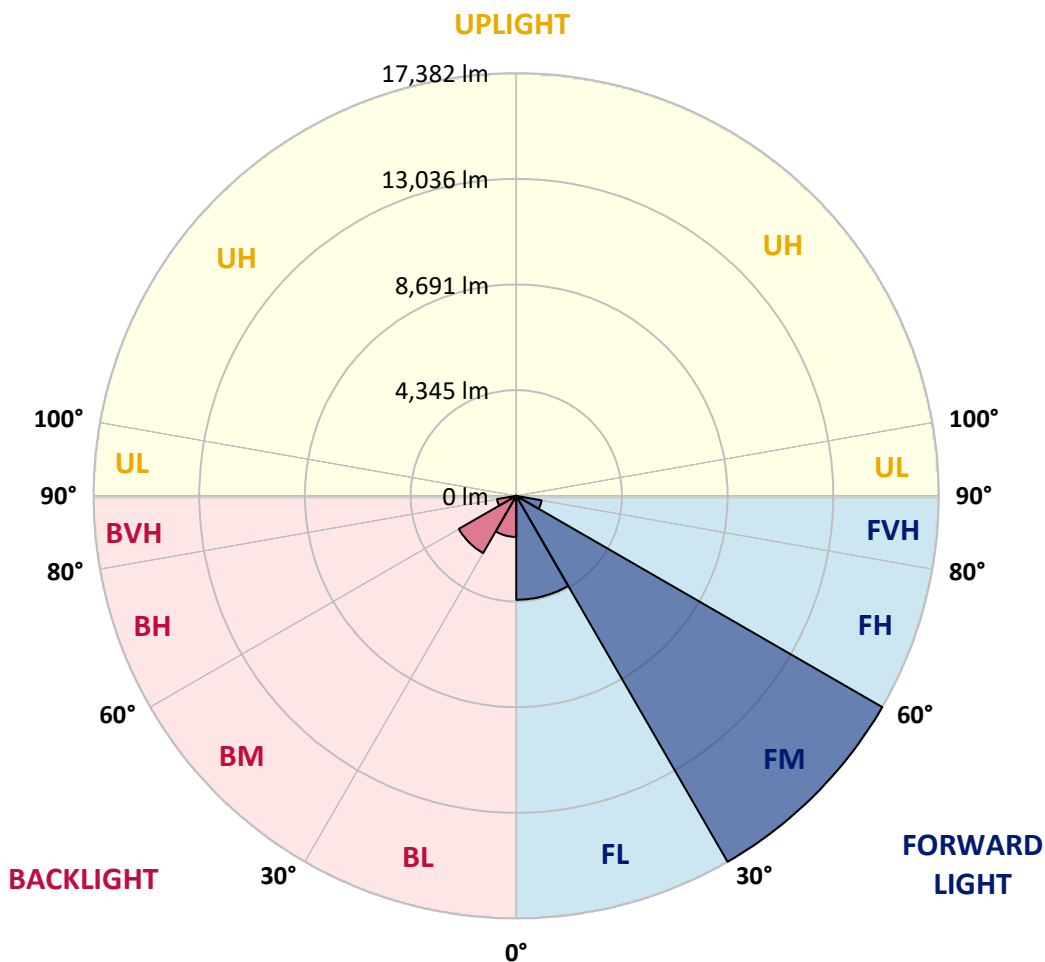


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4274.6 | 15.3 | | | |
| FM (30°-60°) | 17381.8 | 62.0 | | | |
| FH (60°-80°) | 1060.4 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 39.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1692.1 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2724.9 | 9.7 | B3/5000 | | |
| BH (60°-80°) | 802.6 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 48.2 | 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° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 |
| 2.5° | 9301.0 | 9122.0 | 9142.3 | 9013.9 | 8875.5 | 8835.0 | 8693.1 | 8558.0 | 8456.7 | 8240.5 | 8041.3 |
| 5° | 10165.6 | 10111.6 | 10030.5 | 9929.2 | 9824.5 | 9567.8 | 9422.6 | 9253.7 | 8882.2 | 8547.8 | 8216.9 |
| 7.5° | 10290.6 | 10280.4 | 10324.4 | 10324.4 | 10361.5 | 10263.6 | 10057.5 | 9939.4 | 9544.2 | 9000.5 | 8385.8 |
| 10° | 9412.5 | 9442.8 | 9655.6 | 9932.5 | 10317.6 | 10584.4 | 10550.6 | 10520.2 | 10087.9 | 9344.9 | 8585.0 |
| 12.5° | 8713.3 | 8645.8 | 8770.8 | 9007.2 | 9584.7 | 10229.8 | 10665.4 | 10668.8 | 10557.3 | 9895.4 | 8730.3 |
| 15° | 8318.2 | 8365.5 | 8399.3 | 8510.8 | 8946.4 | 9692.8 | 10459.4 | 10685.7 | 11175.4 | 10283.8 | 8959.9 |
| 17.5° | 8571.6 | 8412.8 | 8406.0 | 8433.0 | 8656.0 | 9216.6 | 10077.8 | 10466.2 | 11513.1 | 10783.6 | 9243.6 |
| 20° | 8902.5 | 8899.1 | 8804.5 | 8770.8 | 8767.4 | 9267.2 | 9827.8 | 10354.7 | 11692.1 | 11432.0 | 9530.6 |
| 22.5° | 9483.4 | 9483.4 | 9328.0 | 9253.7 | 9095.0 | 9503.6 | 9861.7 | 10219.7 | 11989.3 | 11877.9 | 9669.1 |
| 25° | 10456.1 | 10297.3 | 10030.5 | 9848.1 | 9756.9 | 9902.2 | 10219.7 | 10540.5 | 12249.3 | 12350.7 | 9956.2 |
| 27.5° | 11354.4 | 11104.5 | 10972.8 | 10658.7 | 10537.1 | 10452.7 | 10743.1 | 11067.3 | 12553.4 | 13087.0 | 10111.6 |
| 30° | 12374.3 | 12330.4 | 12094.0 | 11688.7 | 11388.1 | 11232.8 | 11499.6 | 11820.4 | 13110.6 | 13840.1 | 10469.5 |
| 32.5° | 14198.1 | 13799.5 | 13478.7 | 12982.3 | 12492.6 | 12161.5 | 12425.0 | 12637.8 | 14036.0 | 14627.0 | 10861.3 |
| 35° | 16167.0 | 16038.7 | 15484.8 | 14589.8 | 13840.1 | 13542.9 | 13698.2 | 13857.0 | 15113.3 | 15829.3 | 11519.8 |
| 37.5° | 18102.2 | 17926.6 | 17470.7 | 16717.5 | 15805.7 | 15201.1 | 15312.6 | 15498.3 | 16322.4 | 17450.4 | 12323.7 |
| 40° | 19493.6 | 19277.5 | 19047.8 | 18936.4 | 18031.3 | 17203.8 | 17139.7 | 17186.9 | 17956.9 | 18970.2 | 13215.3 |
| 42.5° | 19595.0 | 19861.7 | 19932.7 | 20381.9 | 20169.1 | 19490.3 | 19095.1 | 19105.2 | 19517.3 | 20473.1 | 14117.0 |
| 45° | 19382.2 | 19135.6 | 19659.1 | 20885.1 | 21587.5 | 21905.0 | 21239.7 | 21155.3 | 20483.1 | 21344.4 | 14566.2 |
| 47.5° | 17149.8 | 17217.4 | 18102.2 | 20040.8 | 22070.5 | 23489.0 | 23333.6 | 23053.2 | 20999.9 | 21314.0 | 14495.2 |
| 50° | 13556.4 | 13965.1 | 14785.7 | 17200.5 | 20719.5 | 23738.8 | 24654.1 | 24005.7 | 20692.6 | 20476.4 | 13772.6 |
| 52.5° | 9027.5 | 9196.3 | 9736.7 | 12853.9 | 16660.1 | 21219.4 | 23134.3 | 23282.9 | 20408.9 | 19378.8 | 12857.3 |
| 55° | 4019.0 | 4005.4 | 4765.4 | 6714.0 | 10452.7 | 16146.8 | 18902.6 | 19807.7 | 19318.0 | 18260.9 | 11965.7 |
| 57.5° | 1702.2 | 1759.5 | 2070.3 | 2901.1 | 5140.2 | 9743.4 | 12806.7 | 13600.3 | 14856.6 | 14995.1 | 9179.4 |
| 60° | 1151.7 | 1158.4 | 1242.8 | 1452.2 | 2151.4 | 4576.2 | 6717.4 | 7669.8 | 8568.1 | 8507.4 | 4870.1 |
| 62.5° | 905.1 | 928.7 | 992.9 | 1077.3 | 1276.6 | 2077.0 | 3005.7 | 3536.0 | 3593.4 | 3022.6 | 1847.3 |
| 65° | 773.4 | 776.7 | 840.9 | 911.9 | 999.7 | 1209.1 | 1448.9 | 1475.9 | 1492.8 | 1438.7 | 1357.6 |
| 67.5° | 638.3 | 645.0 | 695.8 | 776.7 | 857.8 | 925.4 | 992.9 | 1026.7 | 1104.4 | 1256.4 | 1236.1 |
| 70° | 506.6 | 516.7 | 560.6 | 628.1 | 702.5 | 743.0 | 827.5 | 857.8 | 928.7 | 1047.0 | 1094.2 |
| 72.5° | 385.0 | 388.4 | 425.5 | 472.8 | 540.3 | 580.9 | 651.8 | 685.6 | 732.8 | 834.2 | 878.1 |
| 75° | 276.9 | 287.0 | 314.1 | 337.7 | 347.8 | 374.9 | 442.5 | 479.5 | 547.2 | 591.1 | 594.4 |
| 77.5° | 145.2 | 152.0 | 158.7 | 158.7 | 192.5 | 243.1 | 287.0 | 307.3 | 354.6 | 388.4 | 371.5 |
| 80° | 57.4 | 60.8 | 77.7 | 104.7 | 135.1 | 175.6 | 206.0 | 216.1 | 256.7 | 276.9 | 287.0 |
| 82.5° | 33.8 | 37.2 | 50.6 | 74.3 | 98.0 | 125.0 | 148.6 | 158.7 | 185.8 | 209.4 | 216.1 |
| 85° | 16.9 | 20.3 | 30.4 | 47.3 | 64.2 | 77.7 | 74.3 | 70.9 | 70.9 | 67.5 | 70.9 |
| 87.5° | 6.7 | 6.7 | 10.1 | 10.1 | 10.1 | 13.5 | 16.9 | 16.9 | 16.9 | 20.3 | 20.3 |
| 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° | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 | 7899.4 |
| 2.5° | 7909.6 | 7774.5 | 7649.6 | 7419.9 | 7169.9 | 7099.0 | 6808.6 | 6703.9 | 6629.6 | 6541.8 | 6514.7 |
| 5° | 7950.1 | 7771.1 | 7369.2 | 6906.5 | 6538.4 | 6065.5 | 5754.9 | 5420.5 | 5177.4 | 5116.6 | 5099.7 |
| 7.5° | 8034.6 | 7727.2 | 7034.9 | 6335.8 | 5582.6 | 4941.0 | 4451.2 | 4187.8 | 3954.8 | 3941.3 | 3917.6 |
| 10° | 8129.1 | 7595.5 | 6670.1 | 5572.5 | 4609.9 | 4015.6 | 3721.8 | 3607.0 | 3549.5 | 3536.0 | 3529.3 |
| 12.5° | 8206.8 | 7568.5 | 6261.5 | 4829.5 | 3921.0 | 3563.1 | 3475.2 | 3465.1 | 3488.7 | 3495.4 | 3509.0 |
| 15° | 8240.5 | 7460.4 | 5768.4 | 4164.2 | 3492.1 | 3360.4 | 3397.6 | 3438.1 | 3454.9 | 3498.9 | 3465.1 |
| 17.5° | 8304.7 | 7321.9 | 5160.5 | 3637.3 | 3252.3 | 3275.9 | 3340.1 | 3387.4 | 3414.5 | 3444.8 | 3400.9 |
| 20° | 8338.5 | 7196.9 | 4589.8 | 3323.2 | 3167.9 | 3211.8 | 3299.6 | 3336.8 | 3370.6 | 3384.0 | 3333.4 |
| 22.5° | 8308.1 | 6940.3 | 4086.5 | 3069.9 | 3086.8 | 3144.2 | 3222.0 | 3262.4 | 3242.2 | 3188.1 | 3157.8 |
| 25° | 8227.1 | 6578.9 | 3563.1 | 2907.8 | 2972.0 | 3073.4 | 3134.1 | 3103.7 | 3066.5 | 3036.2 | 3026.0 |
| 27.5° | 8223.6 | 6136.5 | 3184.8 | 2759.2 | 2874.0 | 3012.5 | 2992.3 | 2965.3 | 2982.1 | 2958.5 | 2931.5 |
| 30° | 8240.5 | 5707.6 | 2874.0 | 2674.8 | 2803.1 | 2870.7 | 2894.3 | 2867.3 | 2887.6 | 2843.7 | 2857.2 |
| 32.5° | 8152.7 | 5288.8 | 2671.4 | 2576.8 | 2718.7 | 2715.3 | 2793.0 | 2813.2 | 2766.0 | 2674.8 | 2688.3 |
| 35° | 8189.9 | 4951.1 | 2499.2 | 2532.9 | 2624.2 | 2624.2 | 2684.9 | 2661.3 | 2536.4 | 2482.3 | 2495.8 |
| 37.5° | 8446.6 | 4620.1 | 2414.8 | 2472.2 | 2532.9 | 2560.0 | 2539.7 | 2438.4 | 2408.0 | 2408.0 | 2414.8 |
| 40° | 8689.7 | 4336.4 | 2364.1 | 2458.7 | 2448.5 | 2465.4 | 2316.8 | 2327.0 | 2327.0 | 2330.3 | 2313.4 |
| 42.5° | 8905.9 | 4143.9 | 2323.6 | 2377.6 | 2394.5 | 2306.7 | 2215.5 | 2205.4 | 2229.0 | 2225.6 | 2212.1 |
| 45° | 8983.6 | 3985.2 | 2266.2 | 2286.4 | 2299.9 | 2154.7 | 2110.8 | 2090.6 | 2117.6 | 2127.6 | 2141.2 |
| 47.5° | 8686.4 | 3853.5 | 2202.0 | 2161.5 | 2134.5 | 2039.8 | 1982.5 | 1945.3 | 1979.0 | 2036.5 | 2050.0 |
| 50° | 8304.7 | 3681.2 | 2100.6 | 2023.0 | 1965.6 | 1925.0 | 1884.5 | 1847.3 | 1871.0 | 1911.5 | 1901.4 |
| 52.5° | 7740.7 | 3411.0 | 1972.3 | 1891.2 | 1793.3 | 1803.4 | 1766.4 | 1746.1 | 1759.5 | 1759.5 | 1749.4 |
| 55° | 6936.9 | 2803.1 | 1756.2 | 1698.7 | 1617.7 | 1644.7 | 1651.5 | 1624.5 | 1597.5 | 1621.1 | 1600.8 |
| 57.5° | 4734.9 | 1979.0 | 1567.0 | 1567.0 | 1486.0 | 1523.1 | 1519.8 | 1455.6 | 1391.4 | 1398.2 | 1384.7 |
| 60° | 2739.0 | 1577.2 | 1445.5 | 1432.0 | 1347.5 | 1377.9 | 1384.7 | 1340.8 | 1242.8 | 1249.6 | 1236.1 |
| 62.5° | 1556.9 | 1347.5 | 1263.1 | 1242.8 | 1225.9 | 1253.0 | 1253.0 | 1195.6 | 1111.1 | 1117.9 | 1104.4 |
| 65° | 1323.9 | 1249.6 | 1128.0 | 1124.7 | 1117.9 | 1124.7 | 1097.6 | 1036.8 | 962.5 | 932.2 | 935.5 |
| 67.5° | 1202.3 | 1155.0 | 1036.8 | 1006.4 | 986.2 | 982.8 | 932.2 | 874.7 | 840.9 | 813.9 | 810.6 |
| 70° | 1053.7 | 1016.6 | 928.7 | 888.3 | 868.0 | 820.6 | 770.0 | 732.8 | 685.6 | 672.0 | 685.6 |
| 72.5° | 834.2 | 830.8 | 797.0 | 753.1 | 709.2 | 672.0 | 628.1 | 577.5 | 533.6 | 523.4 | 499.8 |
| 75° | 577.5 | 584.2 | 591.1 | 584.2 | 547.2 | 499.8 | 449.2 | 408.6 | 354.6 | 324.2 | 317.5 |
| 77.5° | 378.3 | 388.4 | 398.5 | 385.0 | 361.4 | 317.5 | 283.7 | 233.0 | 192.5 | 168.9 | 165.5 |
| 80° | 276.9 | 290.5 | 297.2 | 287.0 | 260.0 | 226.3 | 189.1 | 148.6 | 118.2 | 98.0 | 98.0 |
| 82.5° | 212.8 | 226.3 | 233.0 | 216.1 | 189.1 | 162.1 | 135.1 | 104.7 | 81.1 | 64.2 | 60.8 |
| 85° | 74.3 | 70.9 | 84.4 | 87.8 | 104.7 | 98.0 | 81.1 | 60.8 | 47.3 | 33.8 | 30.4 |
| 87.5° | 20.3 | 20.3 | 23.6 | 23.6 | 20.3 | 16.9 | 16.9 | 16.9 | 13.5 | 10.1 | 10.1 |
| 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)