

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: P452662

Luminaire Tested: **GALN-SA3C-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15400 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

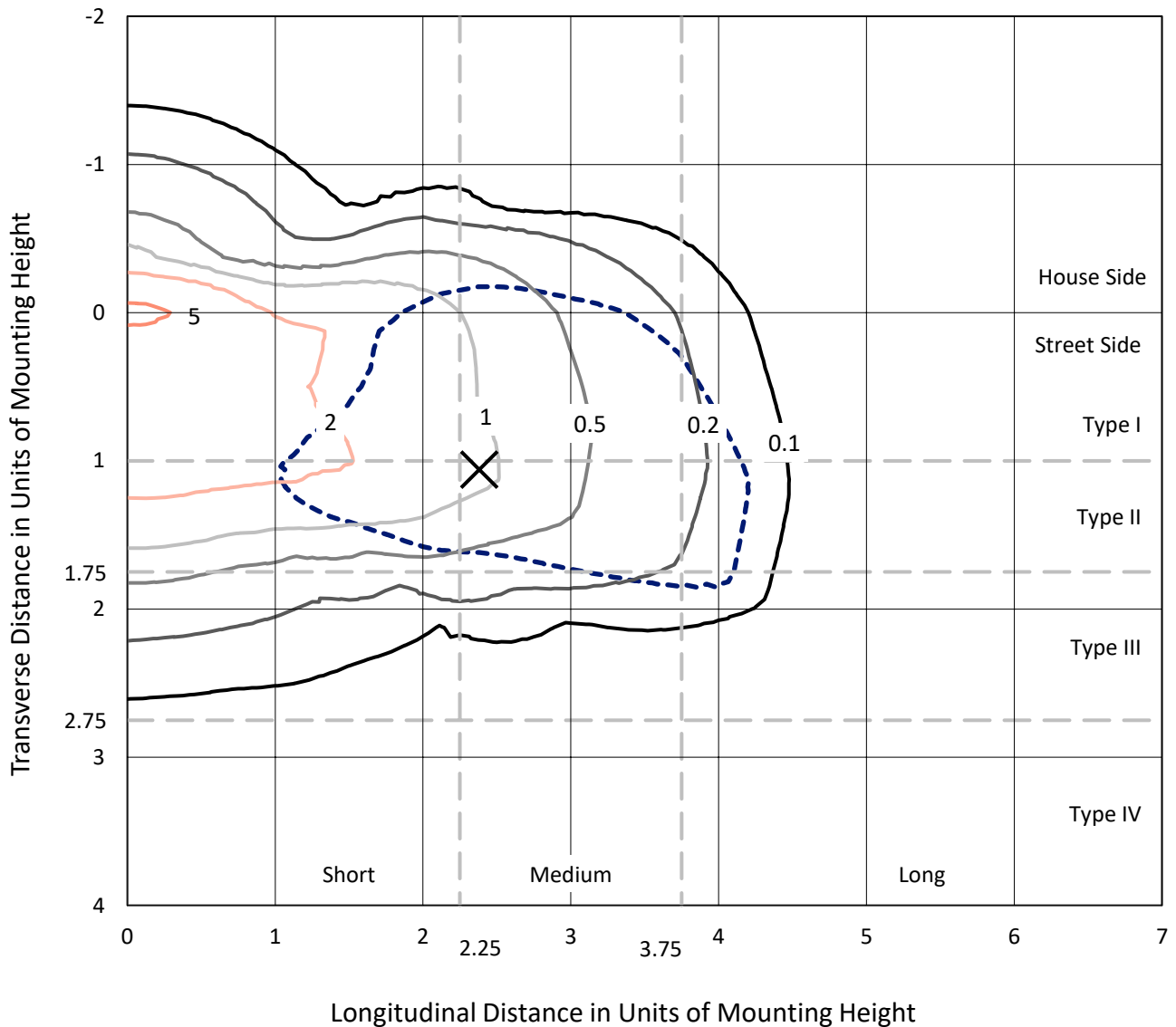
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

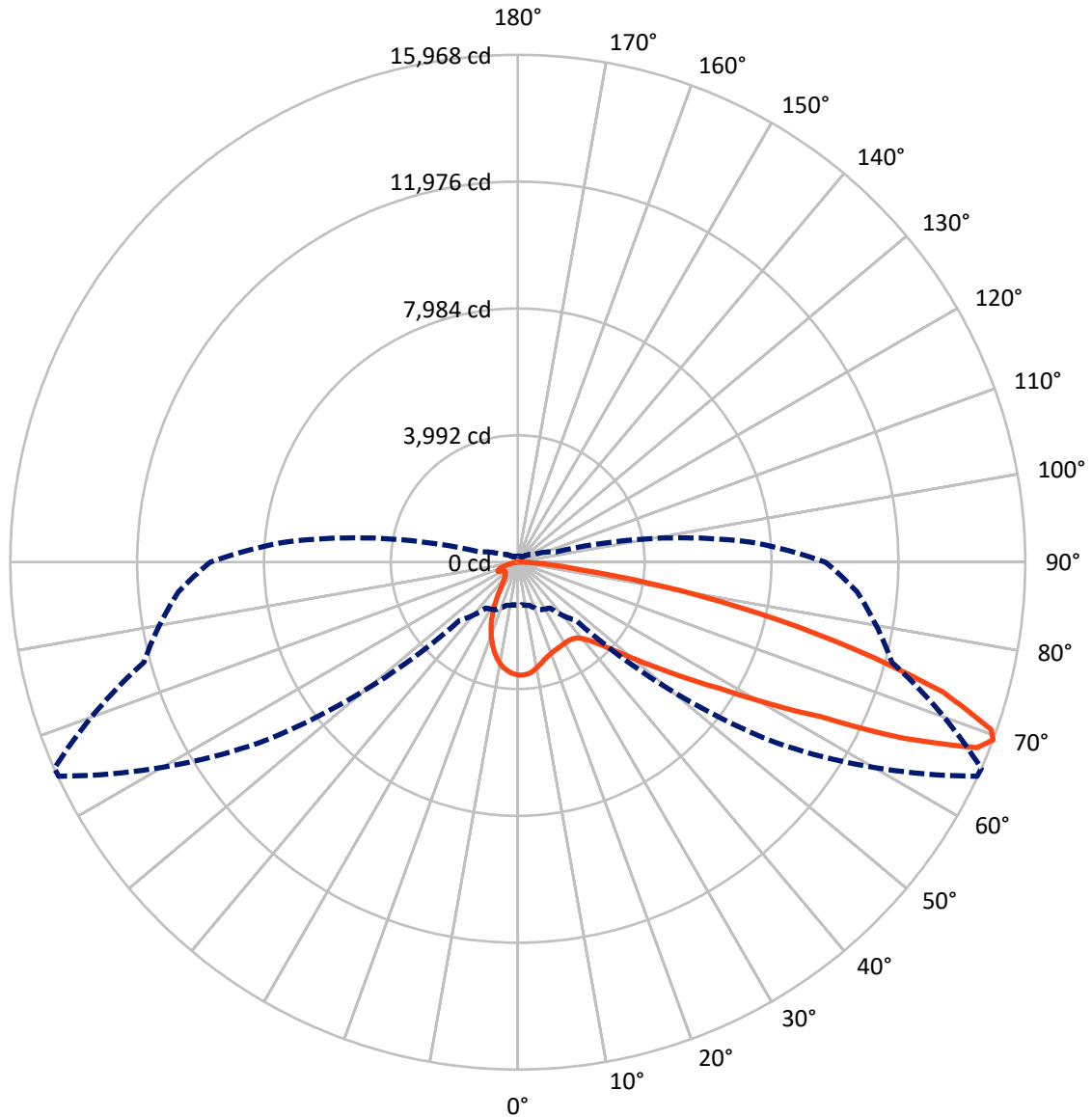
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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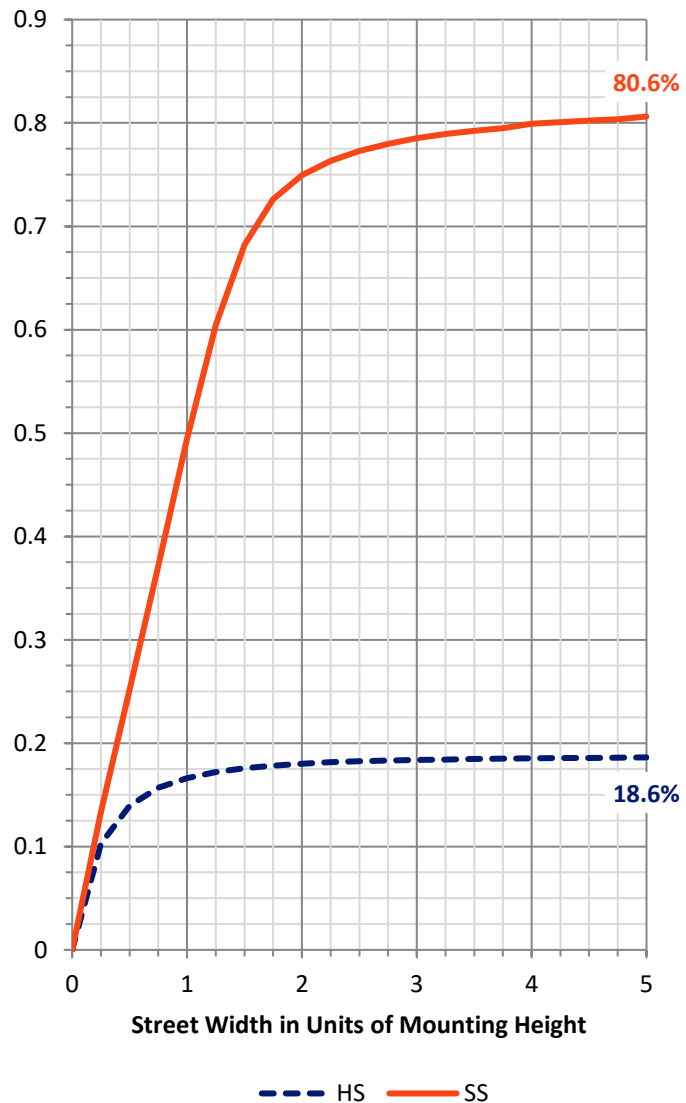
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2896.2 | 0.0 | 2896.2 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 12503.8 | 0.0 | 12503.8 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 15400.0 | 0.0 | 15400.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 308.8 | 2.0 |
| 10°-20° | 732.5 | 4.8 |
| 20°-30° | 997.2 | 6.5 |
| 30°-40° | 1340.0 | 8.7 |
| 40°-50° | 2000.9 | 13.0 |
| 50°-60° | 3182.8 | 20.7 |
| 60°-70° | 3914.6 | 25.4 |
| 70°-80° | 2547.0 | 16.5 |
| 80°-90° | 376.1 | 2.4 |
| 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° | 15400.0 | 100.0 |
| 0°-180° | 15400.0 | 100.0 |



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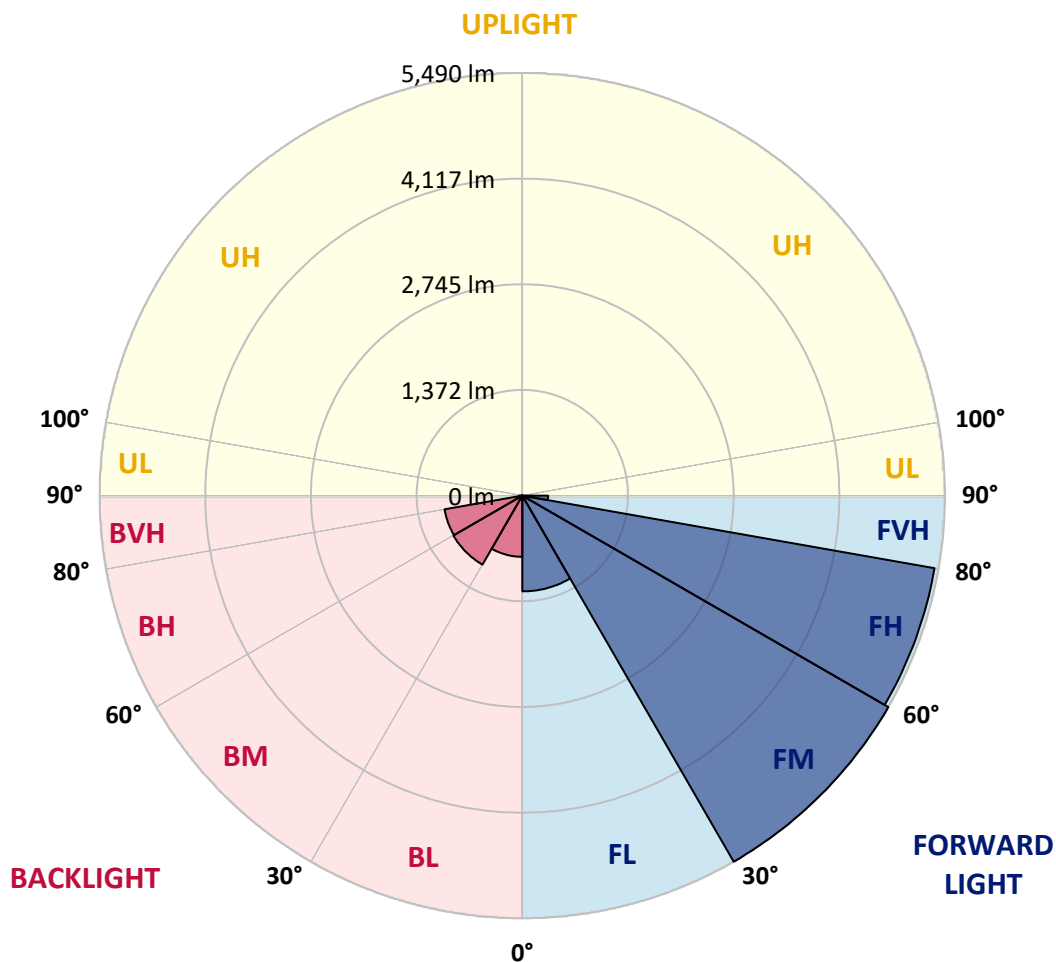
CATALOG NUMBER: GALN-SA3C-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1243.5 | 8.1 | | | |
| FM (30°-60°) | 5489.6 | 35.6 | | | |
| FH (60°-80°) | 5436.3 | 35.3 | | | G3/7500 |
| FVH (80°-90°) | 334.4 | 2.2 | | | G3/500 |
| BL (0°-30°) | 795.0 | 5.2 | B2/1000 | | |
| BM (30°-60°) | 1034.1 | 6.7 | B2/2500 | | |
| BH (60°-80°) | 1025.4 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 41.7 | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 |
| 2.5° | 3431.8 | 3445.4 | 3460.8 | 3477.8 | 3510.2 | 3528.1 | 3540.9 | 3555.4 | 3557.1 | 3564.8 | 3558.8 |
| 5° | 3178.5 | 3194.7 | 3217.7 | 3250.1 | 3298.7 | 3374.6 | 3453.1 | 3517.1 | 3524.7 | 3560.6 | 3570.8 |
| 7.5° | 2967.0 | 2976.4 | 2995.1 | 3047.2 | 3116.2 | 3200.7 | 3314.9 | 3444.6 | 3463.3 | 3548.6 | 3578.5 |
| 10° | 2794.7 | 2804.1 | 2826.3 | 2880.0 | 2948.2 | 3054.0 | 3179.3 | 3349.9 | 3365.3 | 3511.9 | 3580.2 |
| 12.5° | 2665.9 | 2674.5 | 2698.3 | 2751.2 | 2829.7 | 2928.6 | 3066.8 | 3247.6 | 3269.7 | 3463.3 | 3564.0 |
| 15° | 2567.9 | 2584.1 | 2603.7 | 2647.2 | 2729.9 | 2825.4 | 2959.3 | 3153.8 | 3171.7 | 3412.2 | 3552.9 |
| 17.5° | 2526.1 | 2533.7 | 2547.4 | 2587.5 | 2648.0 | 2741.8 | 2876.6 | 3080.4 | 3101.7 | 3376.3 | 3550.3 |
| 20° | 2527.8 | 2535.5 | 2538.0 | 2560.2 | 2603.7 | 2684.7 | 2817.7 | 3022.4 | 3048.0 | 3344.8 | 3554.6 |
| 22.5° | 2585.8 | 2586.6 | 2577.2 | 2569.6 | 2586.6 | 2654.0 | 2776.0 | 2978.9 | 3008.8 | 3331.1 | 3558.0 |
| 25° | 2675.3 | 2690.7 | 2677.0 | 2641.2 | 2609.7 | 2642.1 | 2759.7 | 2955.0 | 2983.2 | 3311.5 | 3553.7 |
| 27.5° | 2820.3 | 2822.9 | 2811.8 | 2763.2 | 2681.3 | 2657.4 | 2752.9 | 2937.1 | 2961.0 | 3297.0 | 3532.4 |
| 30° | 3014.7 | 3007.1 | 2996.8 | 2943.1 | 2814.3 | 2716.3 | 2767.4 | 2920.9 | 2945.7 | 3275.7 | 3506.8 |
| 32.5° | 3211.7 | 3235.6 | 3226.2 | 3163.1 | 2996.0 | 2830.5 | 2814.3 | 2919.2 | 2939.7 | 3259.5 | 3478.7 |
| 35° | 3420.7 | 3431.8 | 3476.1 | 3443.7 | 3272.3 | 3015.6 | 2902.2 | 2945.7 | 2961.9 | 3260.4 | 3459.1 |
| 37.5° | 3584.4 | 3614.3 | 3718.3 | 3746.5 | 3585.3 | 3260.4 | 3044.6 | 3020.7 | 3027.5 | 3302.1 | 3466.7 |
| 40° | 3782.3 | 3833.5 | 3967.4 | 4082.5 | 3976.7 | 3578.5 | 3286.8 | 3159.7 | 3168.3 | 3402.8 | 3517.1 |
| 42.5° | 4033.0 | 4068.8 | 4248.8 | 4404.9 | 4387.8 | 3998.9 | 3580.2 | 3387.4 | 3391.7 | 3603.2 | 3657.8 |
| 45° | 4326.4 | 4377.6 | 4579.7 | 4814.2 | 4854.3 | 4474.8 | 4004.0 | 3732.0 | 3729.4 | 3914.5 | 3920.4 |
| 47.5° | 4701.6 | 4733.2 | 4933.6 | 5189.5 | 5351.5 | 5072.6 | 4518.3 | 4226.6 | 4199.3 | 4368.2 | 4319.6 |
| 50° | 5047.0 | 5096.5 | 5248.3 | 5528.0 | 5931.4 | 5772.8 | 5194.6 | 4867.9 | 4804.0 | 4961.7 | 4879.9 |
| 52.5° | 5192.0 | 5244.0 | 5372.0 | 5719.1 | 6428.6 | 6678.5 | 6053.4 | 5632.9 | 5526.3 | 5647.4 | 5617.6 |
| 55° | 4940.4 | 5007.8 | 5127.2 | 5549.3 | 6646.9 | 7723.2 | 7211.5 | 6517.3 | 6439.7 | 6387.7 | 6396.2 |
| 57.5° | 4264.1 | 4328.1 | 4489.3 | 4954.9 | 6386.0 | 8481.4 | 8865.1 | 7654.1 | 7487.8 | 7248.2 | 7289.1 |
| 60° | 3245.9 | 3285.9 | 3369.5 | 3885.5 | 5612.5 | 8678.4 | 10743.1 | 9091.1 | 8985.4 | 8105.3 | 8134.3 |
| 62.5° | 2305.2 | 2350.4 | 2408.4 | 2665.9 | 4108.9 | 8123.2 | 12213.3 | 11097.8 | 10720.0 | 8993.1 | 8964.9 |
| 65° | 1872.0 | 1841.3 | 1911.2 | 2031.4 | 2410.9 | 6295.6 | 12544.2 | 13883.2 | 13362.9 | 10162.3 | 9771.7 |
| 67.5° | 1539.4 | 1506.9 | 1576.0 | 1790.1 | 1833.6 | 3654.4 | 11352.0 | 15691.2 | 15587.1 | 11433.8 | 10591.3 |
| 69° | 1362.8 | 1345.8 | 1406.3 | 1650.2 | 1760.2 | 2595.2 | 9889.4 | 15942.7 | 15967.5 | 12183.5 | 10717.5 |
| 70° | 1228.1 | 1234.9 | 1293.7 | 1579.4 | 1727.0 | 2139.7 | 8452.4 | 15595.6 | 15805.4 | 12557.9 | 10581.0 |
| 72.5° | 904.0 | 918.5 | 1000.4 | 1308.2 | 1695.4 | 1815.7 | 5030.0 | 13622.2 | 13993.2 | 12580.0 | 9679.6 |
| 75° | 631.9 | 625.1 | 697.6 | 985.0 | 1601.6 | 1799.5 | 2954.2 | 10535.0 | 10955.4 | 10873.5 | 8133.4 |
| 77.5° | 413.6 | 424.7 | 482.7 | 695.9 | 1347.5 | 1785.8 | 1925.7 | 7474.2 | 7747.1 | 7272.1 | 4810.8 |
| 80° | 291.7 | 290.8 | 323.2 | 475.0 | 999.5 | 1715.9 | 1576.9 | 4711.0 | 4641.9 | 2857.8 | 1426.8 |
| 82.5° | 167.2 | 179.1 | 216.6 | 334.3 | 668.6 | 1510.4 | 1450.7 | 2253.2 | 2057.0 | 814.4 | 481.8 |
| 85° | 93.0 | 97.2 | 128.8 | 202.1 | 390.6 | 1137.7 | 1266.4 | 1025.1 | 967.1 | 340.3 | 207.2 |
| 87.5° | 29.8 | 32.4 | 53.7 | 102.3 | 177.4 | 537.3 | 717.2 | 473.3 | 436.6 | 122.8 | 83.6 |
| 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° | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 | 3556.3 |
| 2.5° | 3561.4 | 3571.6 | 3544.3 | 3517.9 | 3494.0 | 3460.8 | 3430.9 | 3406.2 | 3389.1 | 3386.6 | 3378.0 |
| 5° | 3573.3 | 3574.2 | 3522.2 | 3452.2 | 3384.0 | 3309.0 | 3231.4 | 3175.9 | 3123.9 | 3094.9 | 3080.4 |
| 7.5° | 3581.9 | 3574.2 | 3480.4 | 3367.0 | 3235.6 | 3099.2 | 2962.7 | 2853.6 | 2769.1 | 2735.9 | 2748.7 |
| 10° | 3578.5 | 3554.6 | 3417.3 | 3235.6 | 3044.6 | 2840.8 | 2644.6 | 2491.1 | 2350.4 | 2277.9 | 2279.6 |
| 12.5° | 3559.7 | 3520.5 | 3323.5 | 3088.1 | 2807.5 | 2534.6 | 2234.4 | 2027.2 | 1864.3 | 1767.9 | 1738.1 |
| 15° | 3543.5 | 3475.3 | 3213.5 | 2887.7 | 2538.9 | 2149.1 | 1783.3 | 1527.4 | 1391.0 | 1315.1 | 1314.2 |
| 17.5° | 3526.4 | 3431.8 | 3093.2 | 2675.3 | 2230.1 | 1728.7 | 1344.9 | 1149.6 | 1085.6 | 1093.3 | 1080.5 |
| 20° | 3508.5 | 3380.6 | 2967.8 | 2439.1 | 1854.0 | 1289.5 | 1007.2 | 927.9 | 945.8 | 980.8 | 985.9 |
| 22.5° | 3488.1 | 3326.0 | 2833.1 | 2179.0 | 1458.3 | 970.5 | 817.0 | 805.1 | 851.1 | 905.7 | 913.4 |
| 25° | 3456.5 | 3257.8 | 2663.4 | 1906.9 | 1124.9 | 782.0 | 715.5 | 724.0 | 769.2 | 815.3 | 820.4 |
| 27.5° | 3412.2 | 3173.4 | 2492.0 | 1567.5 | 845.2 | 671.2 | 654.1 | 665.2 | 687.4 | 715.5 | 722.3 |
| 30° | 3352.5 | 3077.9 | 2295.0 | 1274.1 | 677.1 | 615.7 | 608.9 | 614.9 | 627.7 | 639.6 | 643.0 |
| 32.5° | 3292.8 | 2985.7 | 2096.2 | 975.6 | 603.8 | 579.1 | 572.2 | 572.2 | 572.2 | 574.0 | 574.8 |
| 35° | 3237.3 | 2898.8 | 1883.0 | 759.9 | 565.4 | 550.1 | 540.7 | 530.5 | 528.8 | 522.8 | 522.8 |
| 37.5° | 3206.6 | 2819.4 | 1656.2 | 636.2 | 537.3 | 526.2 | 513.4 | 496.3 | 487.0 | 487.8 | 486.1 |
| 40° | 3212.6 | 2767.4 | 1449.8 | 566.3 | 514.3 | 502.3 | 482.7 | 463.1 | 457.1 | 457.1 | 455.4 |
| 42.5° | 3280.0 | 2750.4 | 1251.9 | 529.6 | 492.1 | 478.4 | 453.7 | 435.8 | 432.4 | 431.5 | 433.2 |
| 45° | 3435.2 | 2792.2 | 1074.6 | 505.7 | 473.3 | 452.9 | 428.1 | 411.9 | 408.5 | 408.5 | 407.7 |
| 47.5° | 3737.9 | 2927.8 | 947.5 | 490.4 | 459.7 | 433.2 | 407.7 | 391.4 | 385.5 | 383.8 | 383.8 |
| 50° | 4208.7 | 3222.0 | 852.8 | 476.7 | 442.6 | 415.3 | 388.9 | 370.1 | 360.7 | 359.9 | 359.0 |
| 52.5° | 4862.8 | 3680.8 | 816.2 | 466.5 | 423.9 | 396.6 | 367.6 | 349.7 | 337.7 | 335.2 | 333.5 |
| 55° | 5627.8 | 4321.3 | 866.5 | 458.8 | 404.2 | 375.2 | 345.4 | 326.6 | 315.5 | 310.4 | 309.6 |
| 57.5° | 6513.9 | 5090.5 | 1057.5 | 448.6 | 386.3 | 352.2 | 323.2 | 304.5 | 292.5 | 286.5 | 284.8 |
| 60° | 7309.6 | 5881.1 | 1391.0 | 442.6 | 371.0 | 327.5 | 297.6 | 280.6 | 269.5 | 263.5 | 262.7 |
| 62.5° | 8183.7 | 6635.0 | 1789.2 | 458.8 | 364.2 | 303.6 | 273.8 | 258.4 | 249.0 | 243.1 | 243.1 |
| 65° | 9117.6 | 7389.7 | 2052.8 | 513.4 | 374.4 | 284.8 | 248.2 | 235.4 | 226.9 | 222.6 | 221.7 |
| 67.5° | 9747.0 | 7650.7 | 1691.2 | 569.7 | 400.0 | 264.4 | 223.4 | 213.2 | 208.1 | 203.8 | 203.8 |
| 69° | 9678.7 | 7320.7 | 1247.7 | 584.2 | 407.7 | 254.1 | 209.8 | 202.1 | 195.3 | 193.6 | 191.9 |
| 70° | 9463.0 | 6944.6 | 1045.6 | 574.8 | 401.7 | 244.8 | 201.3 | 191.9 | 185.9 | 184.2 | 183.4 |
| 72.5° | 8428.5 | 6022.7 | 778.6 | 499.8 | 342.0 | 212.4 | 178.2 | 169.7 | 164.6 | 162.0 | 162.0 |
| 75° | 7002.6 | 4922.5 | 608.1 | 397.4 | 267.8 | 179.1 | 152.7 | 145.8 | 141.6 | 139.9 | 139.0 |
| 77.5° | 3924.7 | 2748.7 | 436.6 | 311.3 | 203.0 | 145.0 | 127.9 | 122.0 | 117.7 | 116.0 | 116.0 |
| 80° | 1093.3 | 785.5 | 256.7 | 205.5 | 138.2 | 110.0 | 101.5 | 97.2 | 91.3 | 87.0 | 89.5 |
| 82.5° | 411.9 | 340.3 | 146.7 | 123.7 | 87.8 | 73.3 | 70.8 | 67.4 | 64.8 | 58.8 | 58.8 |
| 85° | 200.4 | 165.4 | 93.8 | 65.7 | 48.6 | 38.4 | 36.7 | 35.0 | 33.3 | 29.0 | 29.8 |
| 87.5° | 69.1 | 73.3 | 40.9 | 23.9 | 14.5 | 9.4 | 7.7 | 4.3 | 4.3 | 4.3 | 4.3 |
| 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)