

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: P941532

Luminaire Tested: **GALN-SB5A-840-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21485 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

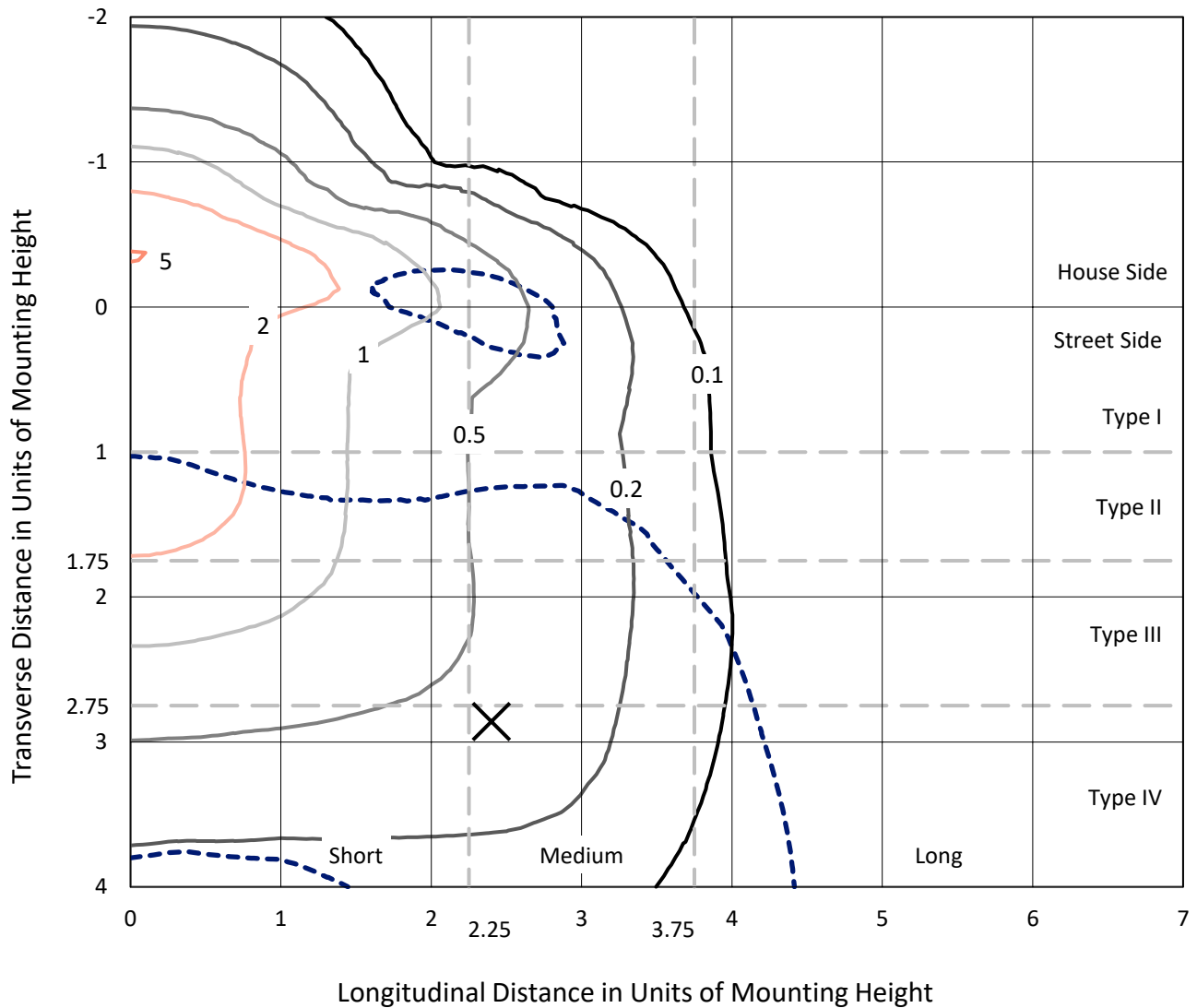
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

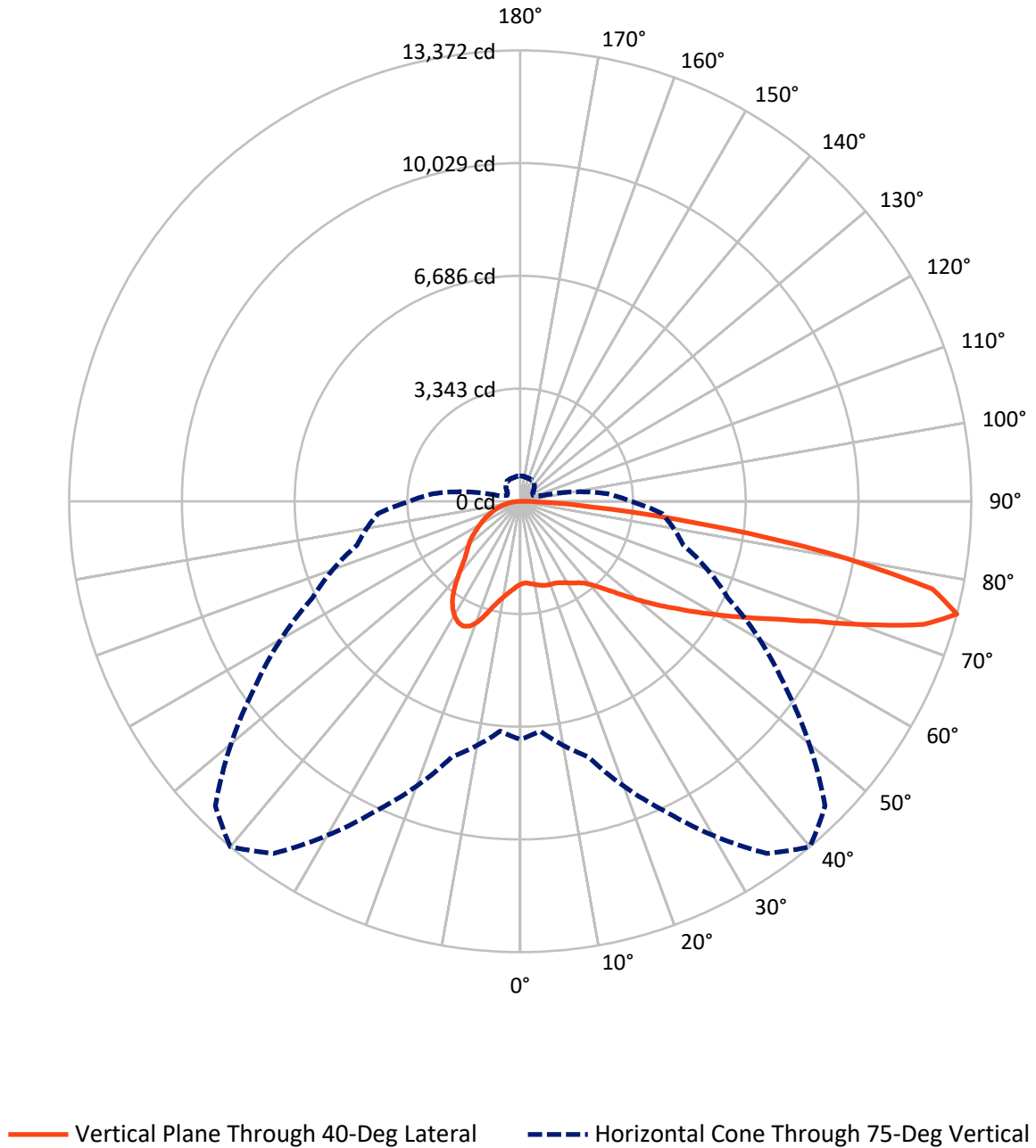
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6656.8 | 0.0 | 6656.8 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 14828.2 | 0.0 | 14828.2 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 21485.0 | 0.0 | 21485.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.2 | 1.1 |
| 10°-20° | 823.4 | 3.8 |
| 20°-30° | 1503.4 | 7.0 |
| 30°-40° | 2132.3 | 9.9 |
| 40°-50° | 2879.2 | 13.4 |
| 50°-60° | 3873.3 | 18.0 |
| 60°-70° | 4916.1 | 22.9 |
| 70°-80° | 4461.7 | 20.8 |
| 80°-90° | 650.4 | 3.0 |
| 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° | 21485.0 | 100.0 |
| 0°-180° | 21485.0 | 100.0 |



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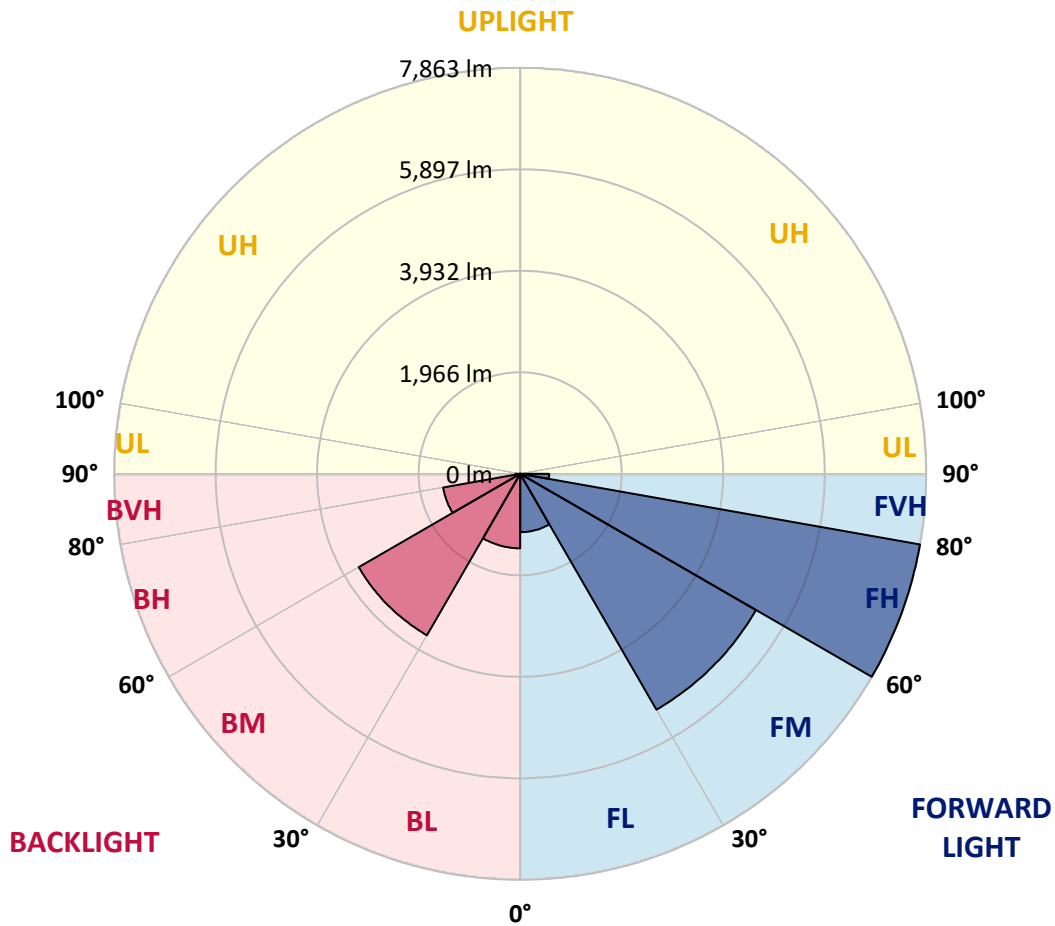
CATALOG NUMBER: GALN-SB5A-840-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1130.1 | 5.3 | | | |
| FM (30°-60°) | 5274.1 | 24.5 | | | |
| FH (60°-80°) | 7863.2 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 560.8 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1441.9 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 3610.7 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1514.6 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 89.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 |
| 2.5° | 2419.2 | 2432.9 | 2429.5 | 2424.9 | 2424.9 | 2426.1 | 2424.9 | 2432.9 | 2440.9 | 2448.9 |
| 5° | 2444.3 | 2458.0 | 2451.1 | 2445.4 | 2440.9 | 2439.7 | 2436.3 | 2435.2 | 2439.7 | 2450.0 |
| 7.5° | 2493.3 | 2507.0 | 2496.7 | 2486.5 | 2477.4 | 2472.8 | 2468.2 | 2461.4 | 2458.0 | 2463.7 |
| 10° | 2548.0 | 2561.7 | 2549.1 | 2530.9 | 2516.1 | 2510.4 | 2505.8 | 2499.0 | 2494.4 | 2497.9 |
| 12.5° | 2602.7 | 2616.4 | 2599.3 | 2574.2 | 2554.8 | 2551.4 | 2545.7 | 2543.4 | 2542.3 | 2541.2 |
| 15° | 2654.0 | 2665.4 | 2643.7 | 2614.1 | 2593.6 | 2587.9 | 2582.2 | 2585.6 | 2591.3 | 2598.1 |
| 17.5° | 2693.9 | 2705.3 | 2673.4 | 2634.6 | 2615.2 | 2613.0 | 2609.5 | 2620.9 | 2636.9 | 2654.0 |
| 20° | 2730.3 | 2741.7 | 2700.7 | 2648.3 | 2625.5 | 2625.5 | 2626.6 | 2650.6 | 2673.4 | 2698.4 |
| 22.5° | 2781.6 | 2790.7 | 2740.6 | 2668.8 | 2635.7 | 2638.0 | 2647.1 | 2671.1 | 2699.6 | 2733.7 |
| 25° | 2858.0 | 2864.8 | 2803.3 | 2707.5 | 2669.9 | 2676.8 | 2684.7 | 2696.1 | 2723.5 | 2763.4 |
| 27.5° | 2981.0 | 2986.7 | 2905.8 | 2775.9 | 2718.9 | 2730.3 | 2741.7 | 2733.7 | 2746.3 | 2780.5 |
| 30° | 3154.2 | 3157.7 | 3055.1 | 2883.0 | 2802.1 | 2807.8 | 2810.1 | 2777.0 | 2753.1 | 2780.5 |
| 32.5° | 3359.4 | 3358.2 | 3236.3 | 3012.9 | 2896.7 | 2891.0 | 2871.6 | 2806.7 | 2750.8 | 2774.8 |
| 35° | 3677.3 | 3664.7 | 3507.5 | 3195.3 | 3003.8 | 2968.5 | 2922.9 | 2839.7 | 2762.2 | 2769.1 |
| 37.5° | 4203.7 | 4165.0 | 3947.4 | 3493.8 | 3163.4 | 3073.3 | 3006.1 | 2893.3 | 2787.3 | 2766.8 |
| 40° | 4797.4 | 4748.4 | 4509.1 | 3902.9 | 3402.7 | 3257.9 | 3149.7 | 2969.6 | 2828.3 | 2777.0 |
| 42.5° | 5501.7 | 5432.2 | 5174.6 | 4384.9 | 3705.8 | 3496.1 | 3333.1 | 3066.5 | 2888.7 | 2810.1 |
| 45° | 6366.6 | 6274.3 | 5909.6 | 4928.5 | 4087.5 | 3808.3 | 3590.7 | 3213.5 | 2981.0 | 2873.9 |
| 47.5° | 7240.6 | 7263.4 | 6744.9 | 5550.7 | 4545.6 | 4193.5 | 3913.2 | 3434.6 | 3115.5 | 2976.5 |
| 50° | 8169.3 | 8185.3 | 7575.6 | 6240.1 | 5065.2 | 4628.8 | 4275.5 | 3681.8 | 3302.4 | 3122.3 |
| 52.5° | 8894.1 | 8896.4 | 8330.0 | 6961.4 | 5606.5 | 5107.4 | 4666.4 | 3964.4 | 3518.9 | 3316.0 |
| 55° | 9347.6 | 9341.9 | 8858.7 | 7644.0 | 6228.7 | 5609.9 | 5099.4 | 4285.8 | 3783.3 | 3544.0 |
| 57.5° | 9676.9 | 9659.8 | 9223.4 | 8230.9 | 6891.9 | 6203.6 | 5589.4 | 4650.4 | 4095.5 | 3815.2 |
| 60° | 9802.3 | 9792.0 | 9470.7 | 8738.0 | 7589.3 | 6860.0 | 6154.6 | 5058.4 | 4449.9 | 4135.4 |
| 62.5° | 9850.1 | 9869.5 | 9713.4 | 9229.1 | 8335.7 | 7587.0 | 6775.7 | 5546.1 | 4848.7 | 4497.7 |
| 65° | 10018.8 | 10054.1 | 10022.2 | 9871.8 | 9179.0 | 8438.3 | 7599.6 | 6126.1 | 5284.0 | 4886.3 |
| 67.5° | 10352.7 | 10388.0 | 10401.7 | 10641.0 | 10209.1 | 9499.2 | 8627.4 | 6848.6 | 5793.4 | 5289.7 |
| 70° | 10344.7 | 10334.4 | 10576.0 | 11252.9 | 11499.1 | 10968.0 | 10013.1 | 7737.4 | 6400.8 | 5624.7 |
| 72.5° | 9416.0 | 9333.9 | 9904.8 | 11246.1 | 12572.5 | 12501.8 | 11705.3 | 8883.8 | 6925.0 | 5665.8 |
| 75° | 7064.0 | 6845.2 | 7853.7 | 10135.0 | 12751.4 | 13372.4 | 12781.0 | 9594.9 | 6800.7 | 5006.0 |
| 77.5° | 3020.9 | 2801.0 | 3989.5 | 7502.7 | 11412.4 | 12500.7 | 11794.2 | 8371.0 | 5428.7 | 3310.4 |
| 80° | 790.8 | 789.7 | 1205.6 | 3401.5 | 7761.4 | 9231.4 | 8098.7 | 5406.0 | 3101.8 | 1182.8 |
| 82.5° | 327.0 | 319.1 | 443.3 | 1323.0 | 3792.4 | 5180.3 | 4227.7 | 2411.3 | 1120.2 | 320.2 |
| 85° | 121.9 | 120.8 | 215.4 | 457.0 | 1337.8 | 2136.6 | 1546.3 | 616.5 | 279.2 | 156.1 |
| 87.5° | 34.2 | 33.0 | 46.7 | 158.4 | 325.9 | 494.6 | 264.4 | 101.4 | 78.6 | 61.5 |
| 90° | 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):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2456.8 | 0° | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 | 2456.8 |
| 2461.4 | 2.5° | 2464.8 | 2470.5 | 2480.8 | 2488.7 | 2499.0 | 2510.4 | 2526.4 | 2536.6 | 2546.9 | 2553.7 |
| 2467.1 | 5° | 2475.1 | 2487.6 | 2513.8 | 2540.0 | 2570.8 | 2599.3 | 2632.3 | 2656.3 | 2675.6 | 2681.3 |
| 2487.6 | 7.5° | 2497.9 | 2518.4 | 2562.8 | 2607.3 | 2656.3 | 2703.0 | 2750.8 | 2791.9 | 2824.9 | 2837.4 |
| 2524.1 | 10° | 2537.7 | 2565.1 | 2627.8 | 2690.4 | 2755.4 | 2827.2 | 2888.7 | 2948.0 | 2994.7 | 3014.1 |
| 2567.4 | 12.5° | 2587.9 | 2622.1 | 2704.1 | 2790.7 | 2880.7 | 2979.9 | 3059.7 | 3132.6 | 3190.7 | 3216.9 |
| 2627.8 | 15° | 2652.8 | 2697.3 | 2802.1 | 2918.4 | 3050.5 | 3188.4 | 3289.8 | 3370.7 | 3435.7 | 3467.6 |
| 2690.4 | 17.5° | 2723.5 | 2782.7 | 2914.9 | 3090.4 | 3279.6 | 3460.8 | 3579.3 | 3638.5 | 3705.8 | 3736.5 |
| 2748.6 | 20° | 2791.9 | 2864.8 | 3054.0 | 3309.2 | 3561.0 | 3753.6 | 3849.4 | 3865.3 | 3869.9 | 3873.3 |
| 2803.3 | 22.5° | 2862.5 | 2960.5 | 3228.3 | 3585.0 | 3855.0 | 3988.4 | 4002.0 | 3933.7 | 3838.0 | 3793.5 |
| 2856.8 | 25° | 2940.0 | 3069.9 | 3456.2 | 3889.2 | 4108.0 | 4124.0 | 4019.1 | 3852.8 | 3671.6 | 3588.4 |
| 2900.1 | 27.5° | 3015.2 | 3196.4 | 3729.7 | 4179.8 | 4290.4 | 4150.2 | 3924.6 | 3688.7 | 3469.9 | 3382.1 |
| 2930.9 | 30° | 3090.4 | 3341.1 | 4031.7 | 4433.9 | 4373.5 | 4085.2 | 3775.3 | 3512.0 | 3292.1 | 3199.8 |
| 2958.2 | 32.5° | 3166.8 | 3509.8 | 4379.2 | 4617.4 | 4358.7 | 3947.4 | 3589.5 | 3313.8 | 3120.0 | 3023.2 |
| 2982.2 | 35° | 3253.4 | 3717.2 | 4708.6 | 4717.7 | 4259.6 | 3744.5 | 3344.5 | 3076.7 | 2908.1 | 2830.6 |
| 3010.7 | 37.5° | 3366.2 | 3980.4 | 4999.1 | 4742.7 | 4086.4 | 3447.1 | 3040.3 | 2796.4 | 2657.4 | 2622.1 |
| 3052.8 | 40° | 3506.4 | 4297.2 | 5221.4 | 4702.9 | 3830.0 | 3085.9 | 2707.5 | 2512.7 | 2434.0 | 2442.0 |
| 3109.8 | 42.5° | 3688.7 | 4651.6 | 5377.5 | 4600.3 | 3473.3 | 2713.2 | 2415.8 | 2329.2 | 2366.8 | 2398.7 |
| 3195.3 | 45° | 3925.7 | 5019.7 | 5474.3 | 4426.0 | 3069.9 | 2397.6 | 2243.7 | 2264.3 | 2292.7 | 2296.2 |
| 3333.1 | 47.5° | 4228.8 | 5392.3 | 5538.1 | 4162.7 | 2658.5 | 2175.4 | 2134.3 | 2138.9 | 2133.2 | 2109.3 |
| 3539.4 | 50° | 4607.1 | 5754.7 | 5595.1 | 3814.0 | 2308.7 | 2036.3 | 1981.7 | 1965.7 | 1887.1 | 1809.6 |
| 3814.0 | 52.5° | 5037.9 | 6087.4 | 5619.0 | 3381.0 | 2036.3 | 1920.1 | 1831.2 | 1731.0 | 1584.0 | 1560.0 |
| 4159.3 | 55° | 5516.5 | 6395.1 | 5557.5 | 2848.8 | 1807.3 | 1770.8 | 1636.4 | 1515.6 | 1499.6 | 1479.1 |
| 4614.0 | 57.5° | 6088.5 | 6726.7 | 5432.2 | 2255.1 | 1572.6 | 1596.5 | 1465.4 | 1479.1 | 1450.6 | 1418.7 |
| 5198.6 | 60° | 6714.1 | 7069.7 | 5212.2 | 1713.9 | 1329.8 | 1378.8 | 1421.0 | 1419.9 | 1411.9 | 1385.7 |
| 5815.0 | 62.5° | 7277.1 | 7295.3 | 4779.2 | 1312.7 | 1116.7 | 1210.2 | 1325.3 | 1324.1 | 1317.3 | 1302.5 |
| 6458.9 | 65° | 7612.1 | 7261.1 | 4056.7 | 1033.6 | 941.3 | 1071.2 | 1195.4 | 1204.5 | 1205.6 | 1204.5 |
| 6943.2 | 67.5° | 7552.8 | 6861.1 | 3065.4 | 822.7 | 796.5 | 929.9 | 1066.6 | 1079.1 | 1088.3 | 1090.5 |
| 7004.7 | 70° | 6882.8 | 5982.6 | 1998.7 | 656.4 | 667.8 | 805.7 | 944.7 | 957.2 | 965.2 | 974.3 |
| 6078.3 | 72.5° | 5364.9 | 4398.6 | 1144.1 | 531.0 | 555.0 | 698.5 | 823.9 | 838.7 | 843.3 | 860.3 |
| 4230.0 | 75° | 3269.3 | 2586.7 | 617.6 | 418.2 | 455.8 | 597.1 | 704.2 | 721.3 | 729.3 | 749.8 |
| 2077.4 | 77.5° | 1554.3 | 1120.2 | 352.1 | 325.9 | 366.9 | 487.7 | 594.8 | 614.2 | 592.6 | 604.0 |
| 573.2 | 80° | 525.3 | 415.9 | 222.2 | 248.4 | 280.3 | 380.6 | 476.3 | 495.7 | 450.1 | 447.8 |
| 190.3 | 82.5° | 183.5 | 168.7 | 141.3 | 165.2 | 181.2 | 272.3 | 360.1 | 385.2 | 335.0 | 333.9 |
| 85.5 | 85° | 71.8 | 68.4 | 78.6 | 90.0 | 108.3 | 167.5 | 237.0 | 249.6 | 206.3 | 166.4 |
| 25.1 | 87.5° | 14.8 | 16.0 | 19.4 | 20.5 | 33.0 | 58.1 | 85.5 | 104.8 | 83.2 | 70.7 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 2456.8 |
| 2549.1 |
| 2683.6 |
| 2838.6 |
| 3015.2 |
| 3216.9 |
| 3465.3 |
| 3735.4 |
| 3882.4 |
| 3806.0 |
| 3600.9 |
| 3392.4 |
| 3210.1 |
| 3035.7 |
| 2847.7 |
| 2647.1 |
| 2469.4 |
| 2428.3 |
| 2319.0 |
| 2127.5 |
| 1819.8 |
| 1568.0 |
| 1482.5 |
| 1413.0 |
| 1376.6 |
| 1296.8 |
| 1204.5 |
| 1092.8 |
| 978.9 |
| 867.2 |
| 752.1 |
| 594.8 |
| 443.3 |
| 317.9 |
| 164.1 |
| 65.0 |
| 0.0 |

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