

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: P652220

Luminaire Tested: **GALN-SA2B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8156.9 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

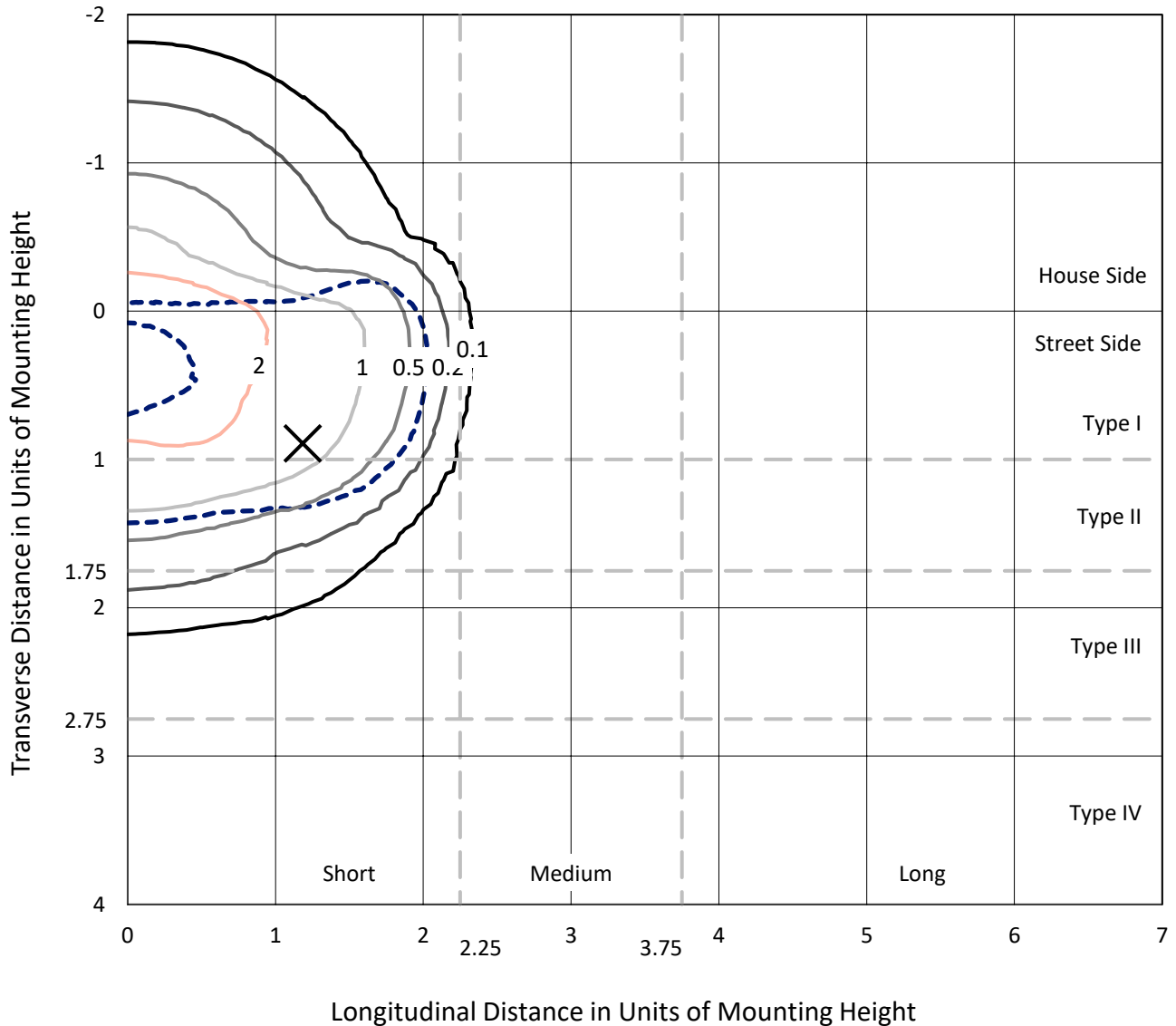
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

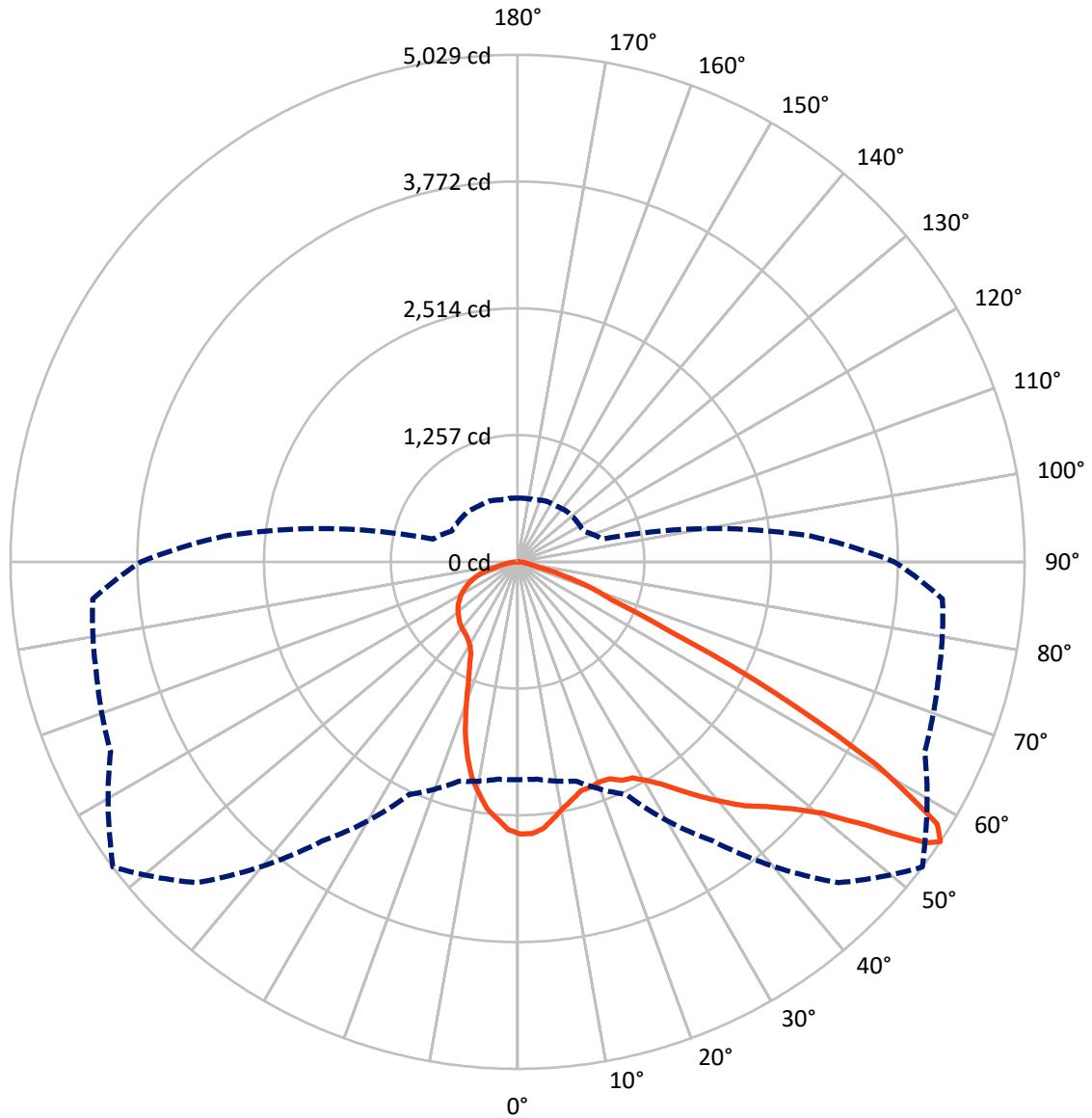
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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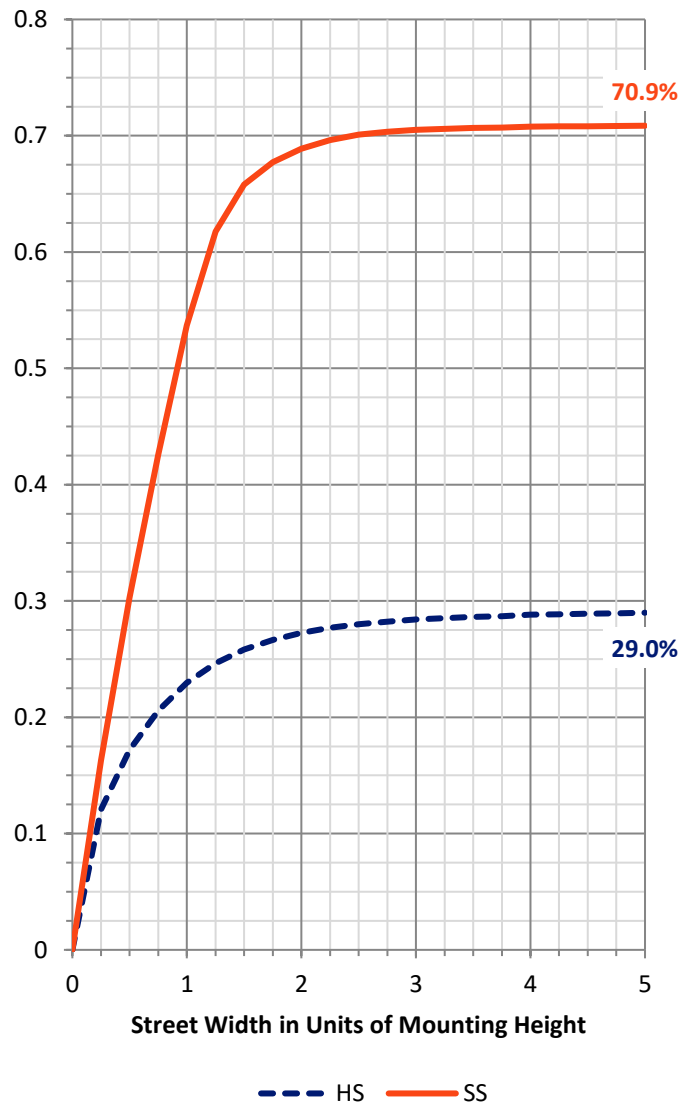
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2380.4   | 0.0    | 2380.4 |
|                    | % Fixture | 29.2     | 0.0    | 29.2   |
| <b>Street Side</b> | Lumens    | 5776.5   | 0.0    | 5776.5 |
|                    | % Fixture | 70.8     | 0.0    | 70.8   |
| <b>Total</b>       | Lumens    | 8156.9   | 0.0    | 8156.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 238.9  | 2.9       |
| 10°-20°   | 596.7  | 7.3       |
| 20°-30°   | 879.9  | 10.8      |
| 30°-40°   | 1257.1 | 15.4      |
| 40°-50°   | 1730.3 | 21.2      |
| 50°-60°   | 2044.7 | 25.1      |
| 60°-70°   | 1089.7 | 13.4      |
| 70°-80°   | 276.5  | 3.4       |
| 80°-90°   | 43.1   | 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°    | 8156.9 | 100.0     |
| 0°-180°   | 8156.9 | 100.0     |

**Coefficient of Utilization**

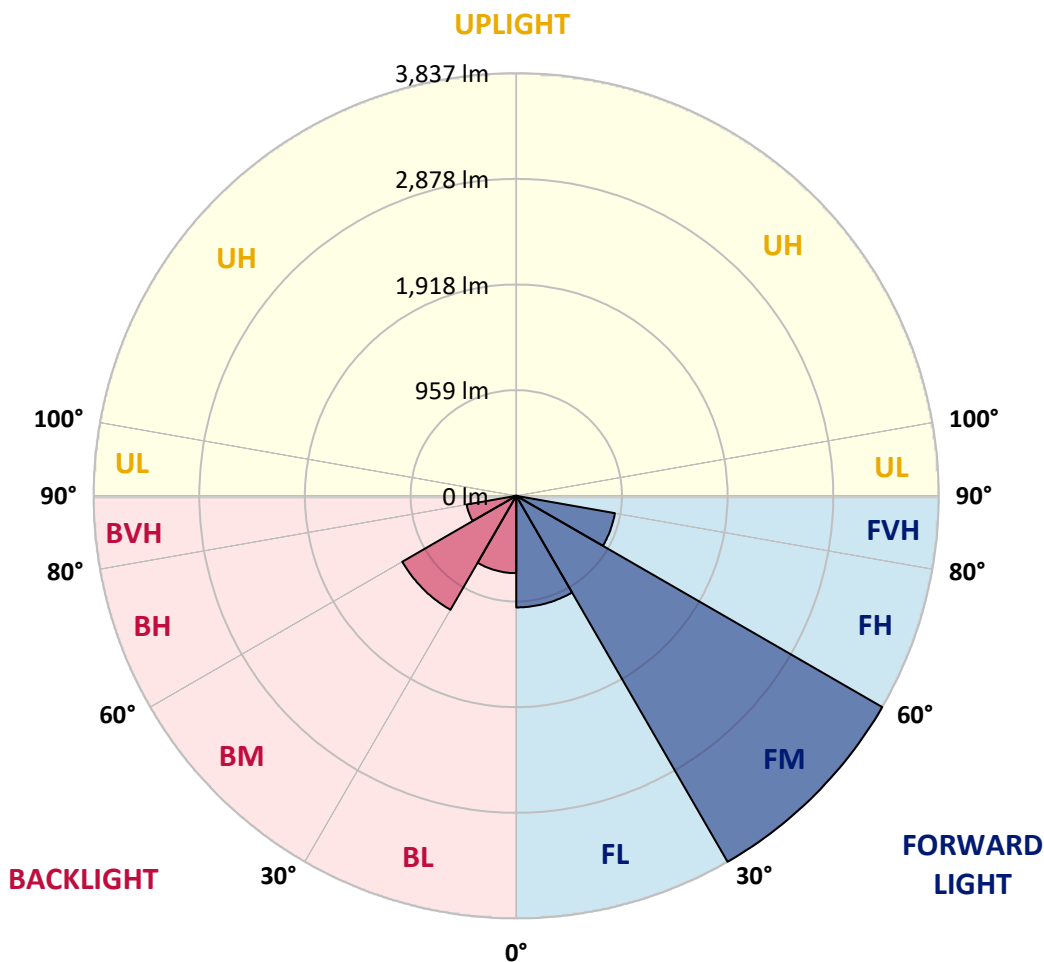


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1013.4 | 12.4      |                         |      |         |
| FM (30°-60°)   | 3836.8 | 47.0      |                         |      |         |
| FH (60°-80°)   | 909.0  | 11.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 17.3   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 702.1  | 8.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1195.3 | 14.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 457.2  | 5.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 25.8   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 |
| 2.5°  | 2665.1 | 2642.1 | 2655.7 | 2650.5 | 2693.4 | 2705.9 | 2699.7 | 2704.9 | 2729.0 | 2717.4 | 2693.4 |
| 5°    | 2490.4 | 2522.8 | 2529.1 | 2544.8 | 2569.9 | 2619.1 | 2657.8 | 2668.2 | 2679.8 | 2733.2 | 2727.9 |
| 7.5°  | 2331.3 | 2353.3 | 2341.8 | 2387.9 | 2442.3 | 2521.7 | 2568.8 | 2577.2 | 2682.9 | 2712.2 | 2734.2 |
| 10°   | 2230.9 | 2208.9 | 2261.2 | 2273.8 | 2335.5 | 2426.5 | 2483.1 | 2517.6 | 2613.8 | 2730.0 | 2743.6 |
| 12.5° | 2137.7 | 2130.4 | 2161.8 | 2197.4 | 2266.5 | 2360.6 | 2418.2 | 2431.8 | 2580.4 | 2702.8 | 2766.6 |
| 15°   | 2068.7 | 2060.3 | 2091.7 | 2117.9 | 2198.5 | 2282.1 | 2355.4 | 2394.1 | 2543.8 | 2687.1 | 2746.7 |
| 17.5° | 2014.3 | 2013.3 | 2031.0 | 2078.1 | 2160.8 | 2230.9 | 2349.1 | 2351.2 | 2524.9 | 2711.1 | 2763.5 |
| 20°   | 2011.2 | 2010.1 | 2013.3 | 2065.6 | 2140.8 | 2226.7 | 2329.2 | 2348.1 | 2524.9 | 2694.4 | 2764.5 |
| 22.5° | 2037.3 | 2020.6 | 2039.4 | 2072.9 | 2127.3 | 2234.0 | 2336.6 | 2378.4 | 2585.6 | 2777.1 | 2811.6 |
| 25°   | 2079.1 | 2083.3 | 2093.8 | 2105.3 | 2136.7 | 2250.8 | 2401.5 | 2436.0 | 2656.7 | 2848.2 | 2876.5 |
| 27.5° | 2155.6 | 2153.5 | 2157.7 | 2163.9 | 2191.1 | 2266.5 | 2427.6 | 2516.5 | 2805.3 | 2974.9 | 2946.6 |
| 30°   | 2267.5 | 2260.2 | 2276.9 | 2298.9 | 2273.8 | 2316.7 | 2514.4 | 2581.4 | 2943.5 | 3102.5 | 3025.1 |
| 32.5° | 2369.0 | 2396.2 | 2427.6 | 2437.0 | 2406.7 | 2415.0 | 2629.6 | 2697.6 | 3058.5 | 3259.5 | 3121.4 |
| 35°   | 2495.6 | 2517.6 | 2559.4 | 2588.8 | 2583.5 | 2558.4 | 2786.5 | 2876.5 | 3224.9 | 3374.6 | 3222.9 |
| 37.5° | 2619.1 | 2645.3 | 2714.3 | 2801.1 | 2753.0 | 2741.5 | 2953.9 | 3028.2 | 3276.2 | 3436.3 | 3297.1 |
| 40°   | 2817.9 | 2816.8 | 2936.1 | 2981.1 | 3024.1 | 3004.1 | 3127.6 | 3152.7 | 3303.4 | 3422.7 | 3299.2 |
| 42.5° | 3051.2 | 3036.6 | 3158.0 | 3228.1 | 3283.5 | 3285.6 | 3308.7 | 3300.3 | 3316.0 | 3353.7 | 3277.3 |
| 45°   | 3273.1 | 3304.5 | 3426.9 | 3552.5 | 3607.9 | 3614.2 | 3461.4 | 3445.7 | 3337.9 | 3333.7 | 3235.4 |
| 47.5° | 3544.1 | 3551.4 | 3651.9 | 3817.2 | 3945.9 | 3902.0 | 3659.2 | 3624.6 | 3434.2 | 3466.7 | 3305.6 |
| 50°   | 3559.8 | 3614.2 | 3704.2 | 3898.8 | 4294.3 | 4282.8 | 3915.5 | 3850.7 | 3589.1 | 3655.0 | 3501.2 |
| 52.5° | 3231.2 | 3218.7 | 3325.4 | 3643.5 | 4268.2 | 4661.6 | 4340.4 | 4185.5 | 3921.8 | 3871.6 | 3818.2 |
| 55°   | 2462.1 | 2491.5 | 2585.6 | 2906.8 | 3706.3 | 4666.9 | 4919.0 | 4792.4 | 4277.6 | 4191.8 | 4130.1 |
| 56°   | 2159.7 | 2163.9 | 2252.9 | 2545.9 | 3381.9 | 4500.4 | 5028.9 | 4926.3 | 4454.4 | 4323.7 | 4229.5 |
| 57.5° | 1790.3 | 1766.3 | 1812.4 | 1972.4 | 2854.5 | 4148.9 | 4908.6 | 5009.0 | 4661.6 | 4466.0 | 4335.2 |
| 60°   | 1409.4 | 1404.2 | 1385.4 | 1414.7 | 1803.9 | 3125.5 | 4086.1 | 4312.1 | 4640.7 | 4332.0 | 4152.0 |
| 62.5° | 1151.0 | 1124.8 | 1162.5 | 1204.4 | 1253.6 | 1938.9 | 2871.3 | 3004.1 | 3684.3 | 3458.3 | 3119.3 |
| 65°   | 892.6  | 880.0  | 927.1  | 1063.1 | 1092.5 | 1231.6 | 1635.5 | 1738.0 | 2175.4 | 2136.7 | 1881.4 |
| 67.5° | 614.2  | 616.3  | 657.2  | 864.3  | 1012.9 | 1000.4 | 1001.4 | 1054.8 | 1135.4 | 843.4  | 734.5  |
| 70°   | 389.2  | 388.2  | 410.2  | 556.7  | 815.1  | 823.5  | 781.6  | 766.0  | 726.2  | 439.5  | 465.7  |
| 72.5° | 250.1  | 242.8  | 254.2  | 307.6  | 421.7  | 487.6  | 502.2  | 511.7  | 420.7  | 345.3  | 374.6  |
| 75°   | 141.3  | 134.0  | 129.8  | 143.4  | 166.3  | 192.5  | 211.3  | 217.7  | 243.8  | 261.6  | 277.3  |
| 77.5° | 42.9   | 38.7   | 47.1   | 62.8   | 82.7   | 110.9  | 135.0  | 139.2  | 164.2  | 185.2  | 200.9  |
| 80°   | 18.8   | 20.9   | 29.3   | 41.9   | 58.6   | 78.5   | 95.2   | 101.5  | 118.2  | 134.0  | 138.1  |
| 82.5° | 11.5   | 12.5   | 19.8   | 28.3   | 40.8   | 55.4   | 68.0   | 70.1   | 86.9   | 99.4   | 102.5  |
| 85°   | 4.2    | 5.2    | 10.4   | 16.7   | 26.2   | 35.6   | 35.6   | 38.7   | 35.6   | 35.6   | 38.7   |
| 87.5° | 0.0    | 0.0    | 1.0    | 2.1    | 2.1    | 3.1    | 4.2    | 4.2    | 5.2    | 6.3    | 7.3    |
| 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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CATALOG NUMBER: GALN-SA2B-840-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 | 2698.6 |
| 2.5°  | 2705.9 | 2700.7 | 2692.3 | 2662.0 | 2658.8 | 2649.4 | 2597.1 | 2588.8 | 2597.1 | 2572.0 | 2574.1 |
| 5°    | 2700.7 | 2716.4 | 2653.6 | 2623.2 | 2566.7 | 2525.9 | 2478.8 | 2454.8 | 2411.9 | 2384.7 | 2415.0 |
| 7.5°  | 2723.7 | 2717.4 | 2639.0 | 2573.0 | 2488.3 | 2384.7 | 2302.1 | 2255.0 | 2179.6 | 2158.7 | 2174.4 |
| 10°   | 2715.3 | 2681.9 | 2589.8 | 2502.9 | 2342.9 | 2251.8 | 2117.9 | 1988.1 | 1917.0 | 1880.3 | 1875.1 |
| 12.5° | 2703.8 | 2694.4 | 2540.6 | 2391.0 | 2222.5 | 2031.0 | 1842.6 | 1720.3 | 1604.1 | 1553.8 | 1561.2 |
| 15°   | 2717.4 | 2637.9 | 2448.5 | 2259.1 | 2035.2 | 1784.1 | 1581.1 | 1423.1 | 1342.5 | 1310.0 | 1310.0 |
| 17.5° | 2711.1 | 2610.7 | 2404.6 | 2111.6 | 1828.0 | 1530.9 | 1308.0 | 1212.7 | 1179.3 | 1179.3 | 1188.7 |
| 20°   | 2714.3 | 2628.5 | 2315.6 | 1964.1 | 1583.2 | 1289.2 | 1126.9 | 1092.5 | 1107.1 | 1112.3 | 1117.5 |
| 22.5° | 2732.1 | 2569.9 | 2228.8 | 1801.8 | 1356.1 | 1102.9 | 1023.3 | 1024.4 | 1050.6 | 1078.8 | 1073.6 |
| 25°   | 2754.1 | 2546.9 | 2123.1 | 1640.7 | 1182.4 | 1011.8 | 986.7  | 983.6  | 1003.5 | 1018.1 | 1020.2 |
| 27.5° | 2735.3 | 2507.1 | 2015.3 | 1439.8 | 1040.1 | 951.2  | 946.0  | 948.1  | 954.3  | 983.6  | 974.2  |
| 30°   | 2797.0 | 2518.6 | 1880.3 | 1271.3 | 961.6  | 931.2  | 925.0  | 921.8  | 931.2  | 939.6  | 932.3  |
| 32.5° | 2873.4 | 2477.8 | 1779.9 | 1109.2 | 922.9  | 916.6  | 904.1  | 899.9  | 905.1  | 896.8  | 901.0  |
| 35°   | 2906.8 | 2470.5 | 1649.1 | 993.1  | 892.6  | 887.3  | 880.0  | 878.9  | 880.0  | 872.7  | 866.4  |
| 37.5° | 2925.7 | 2505.0 | 1499.4 | 939.6  | 873.7  | 878.9  | 862.2  | 860.1  | 841.3  | 845.5  | 848.7  |
| 40°   | 2958.1 | 2451.7 | 1378.1 | 888.3  | 862.2  | 851.8  | 837.1  | 833.9  | 821.4  | 814.1  | 821.4  |
| 42.5° | 2911.0 | 2436.0 | 1258.8 | 866.4  | 845.5  | 833.9  | 823.5  | 805.7  | 801.6  | 795.2  | 791.0  |
| 45°   | 2873.4 | 2346.0 | 1152.1 | 839.2  | 825.6  | 819.3  | 799.5  | 780.6  | 764.9  | 771.2  | 761.8  |
| 47.5° | 2901.6 | 2314.6 | 1046.4 | 816.2  | 798.4  | 791.0  | 771.2  | 756.6  | 740.8  | 733.5  | 731.4  |
| 50°   | 3014.6 | 2373.2 | 957.4  | 799.5  | 775.4  | 771.2  | 745.0  | 728.3  | 713.6  | 708.4  | 710.5  |
| 52.5° | 3284.6 | 2533.3 | 896.8  | 764.9  | 753.4  | 734.5  | 719.9  | 699.0  | 689.5  | 672.8  | 683.3  |
| 55°   | 3626.7 | 2793.8 | 881.0  | 732.4  | 726.2  | 709.5  | 689.5  | 673.9  | 656.1  | 642.4  | 639.3  |
| 56°   | 3736.6 | 2918.4 | 868.5  | 719.9  | 709.5  | 700.0  | 673.9  | 664.5  | 636.2  | 633.0  | 631.0  |
| 57.5° | 3825.5 | 3028.2 | 870.6  | 695.8  | 685.4  | 677.0  | 661.3  | 638.3  | 619.5  | 608.0  | 613.2  |
| 60°   | 3624.6 | 2834.7 | 830.8  | 659.3  | 657.2  | 641.4  | 619.5  | 609.0  | 586.0  | 572.4  | 569.2  |
| 62.5° | 2694.4 | 1924.3 | 673.9  | 612.2  | 611.1  | 594.3  | 569.2  | 557.8  | 553.5  | 534.7  | 534.7  |
| 65°   | 1551.8 | 1206.5 | 582.8  | 573.4  | 565.1  | 548.3  | 523.2  | 513.8  | 503.3  | 497.0  | 491.8  |
| 67.5° | 662.4  | 625.7  | 529.5  | 528.4  | 519.0  | 498.0  | 473.0  | 458.3  | 444.7  | 432.2  | 438.4  |
| 70°   | 480.3  | 487.6  | 478.2  | 473.0  | 461.5  | 435.3  | 413.4  | 395.5  | 374.6  | 366.3  | 372.5  |
| 72.5° | 380.9  | 396.6  | 410.2  | 411.2  | 397.6  | 367.3  | 343.2  | 319.2  | 296.1  | 284.6  | 289.8  |
| 75°   | 288.8  | 299.2  | 312.9  | 316.0  | 296.1  | 275.2  | 252.2  | 227.1  | 209.2  | 195.7  | 197.8  |
| 77.5° | 208.2  | 206.1  | 218.7  | 216.6  | 207.2  | 192.5  | 171.6  | 148.6  | 128.7  | 116.1  | 117.2  |
| 80°   | 142.3  | 145.4  | 152.8  | 151.7  | 140.2  | 130.8  | 115.1  | 96.3   | 81.6   | 71.1   | 69.0   |
| 82.5° | 99.4   | 104.6  | 110.9  | 105.7  | 96.3   | 86.9   | 75.4   | 61.7   | 50.2   | 41.9   | 39.8   |
| 85°   | 35.6   | 40.8   | 47.1   | 50.2   | 53.4   | 51.3   | 42.9   | 34.6   | 25.1   | 20.9   | 19.8   |
| 87.5° | 7.3    | 8.4    | 9.4    | 9.4    | 9.4    | 8.4    | 7.3    | 7.3    | 6.3    | 3.1    | 3.1    |
| 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)