

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: P949625

Luminaire Tested: **GALN-SB4B-827-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

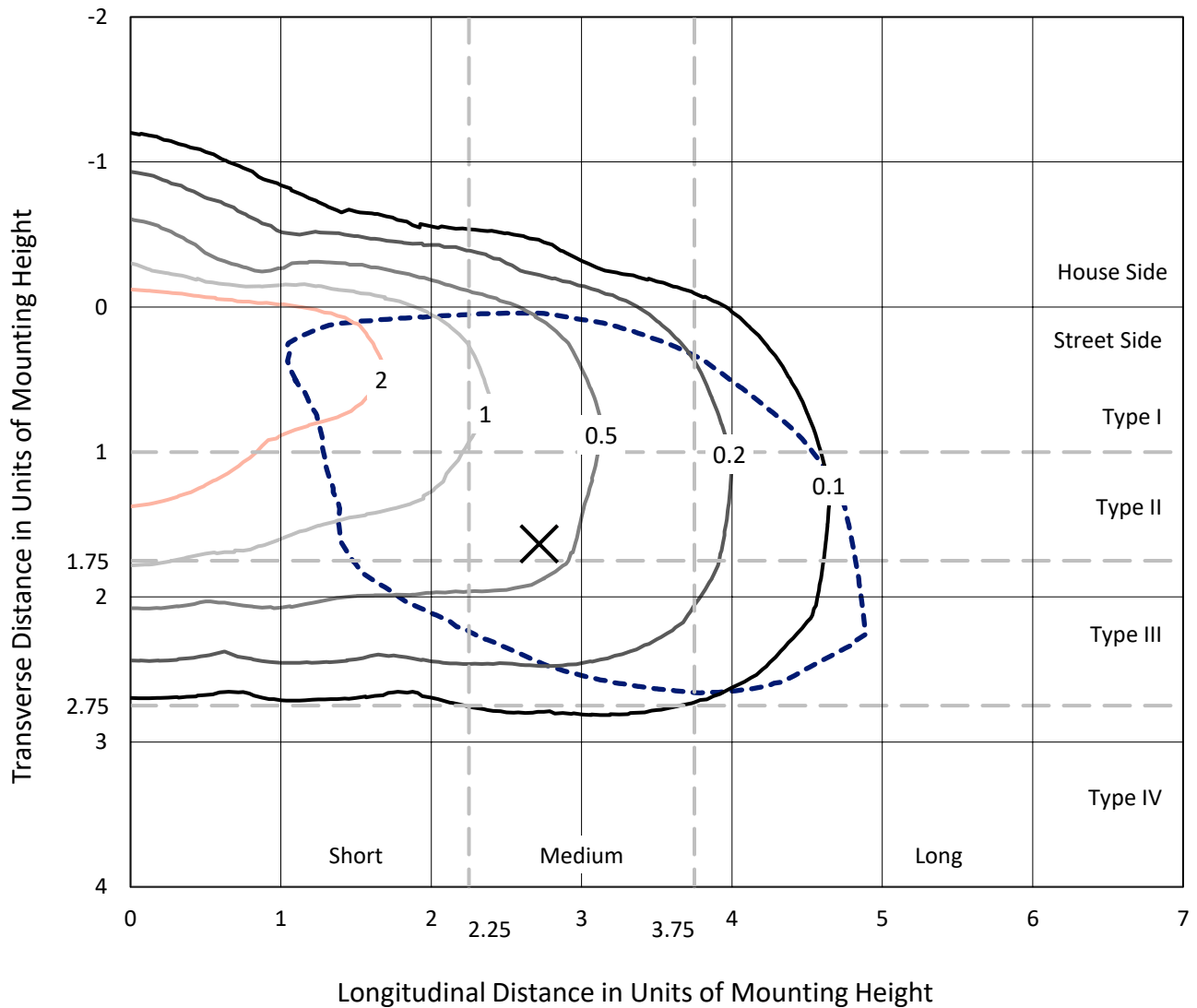
Lumens per Lamp: N/A  
Luminaire Lumens: 15804 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P949625  
 CATALOG NUMBER: GALN-SB4B-827-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

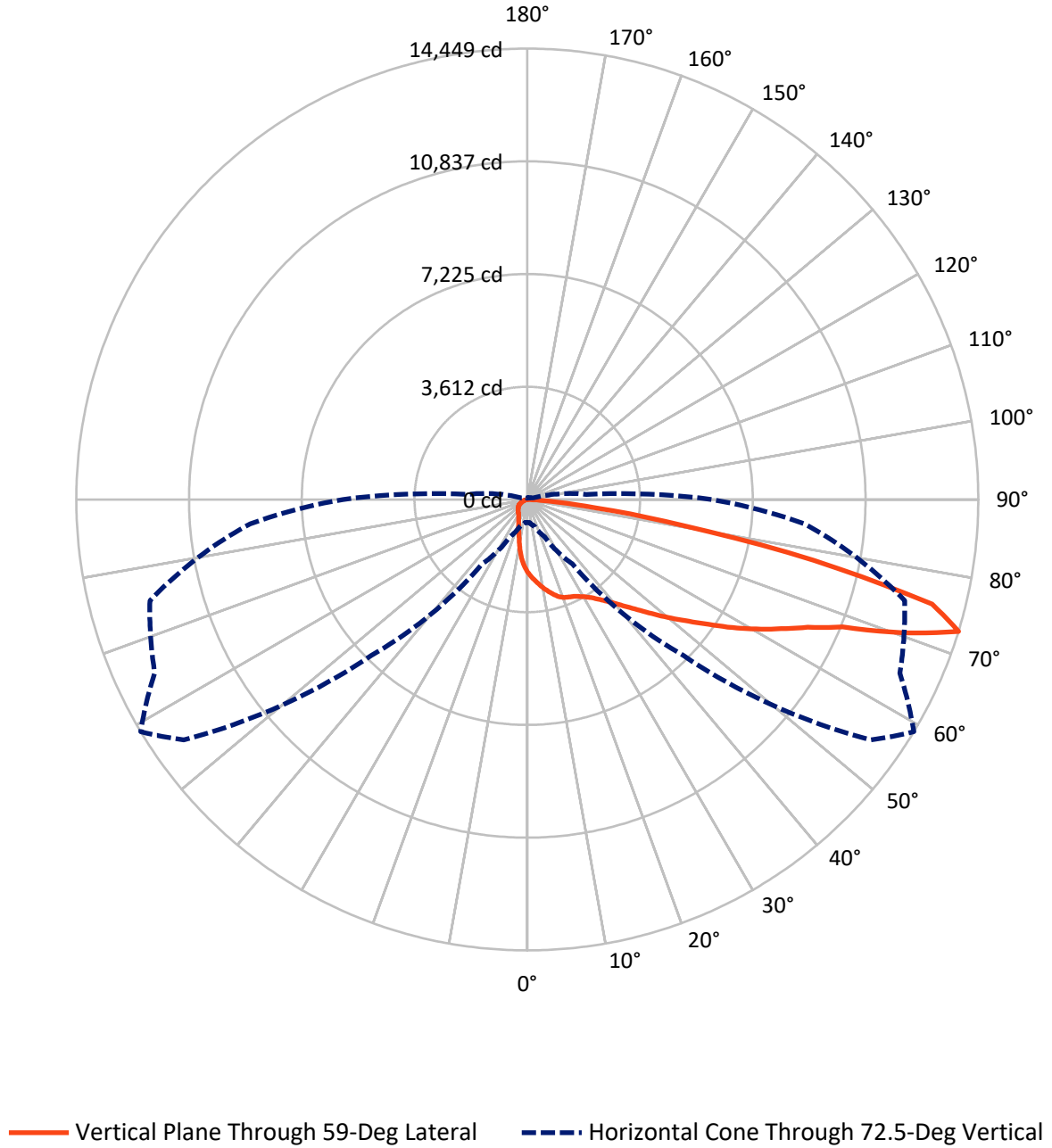
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P949625  
CATALOG NUMBER: GALN-SB4B-827-U-SL3-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P949625  
 CATALOG NUMBER: GALN-SB4B-827-U-SL3-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1669.2   | 0.0    | 1669.2  |
|                    | % Fixture | 10.6     | 0.0    | 10.6    |
| <b>Street Side</b> | Lumens    | 14134.8  | 0.0    | 14134.8 |
|                    | % Fixture | 89.4     | 0.0    | 89.4    |
| <b>Total</b>       | Lumens    | 15804.0  | 0.0    | 15804.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 211.4   | 1.3       |
| 10°-20°   | 561.6   | 3.6       |
| 20°-30°   | 890.1   | 5.6       |
| 30°-40°   | 1428.4  | 9.0       |
| 40°-50°   | 2281.4  | 14.4      |
| 50°-60°   | 3303.2  | 20.9      |
| 60°-70°   | 3920.1  | 24.8      |
| 70°-80°   | 2910.1  | 18.4      |
| 80°-90°   | 297.5   | 1.9       |
| 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°    | 15804.0 | 100.0     |
| 0°-180°   | 15804.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P949625

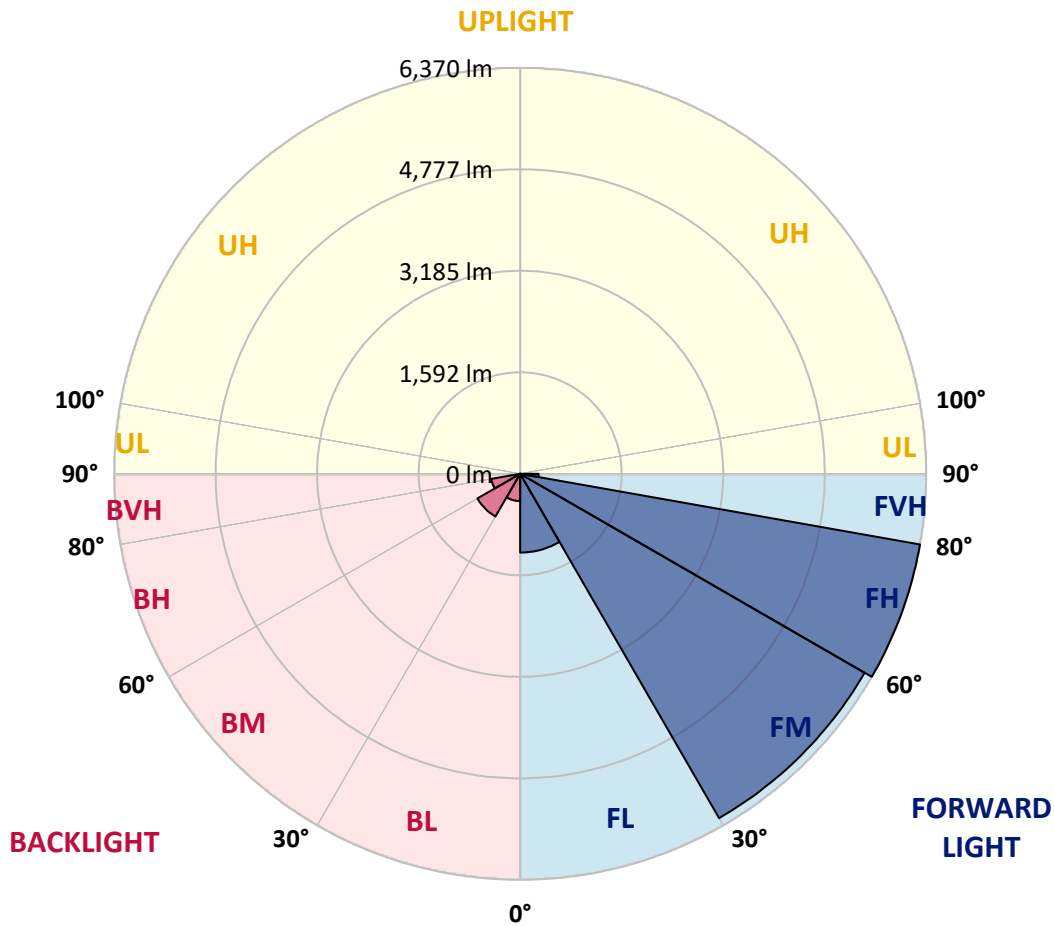
CATALOG NUMBER: GALN-SB4B-827-U-SL3-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1235.5 | 7.8       |                         |      |         |
| FM (30°-60°)   | 6239.2 | 39.5      |                         |      |         |
| FH (60°-80°)   | 6369.9 | 40.3      |                         |      | G3/7500 |
| FVH (80°-90°)  | 290.1  | 1.8       |                         |      | G3/500  |
| BL (0°-30°)    | 427.6  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 773.9  | 4.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 460.3  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 7.4    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type III Medium



REPORT NUMBER: P949625  
 CATALOG NUMBER: GALN-SB4B-827-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 59°     | 65°     | 75°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0  | 2337.0  | 2337.0  | 2337.0  |
| 2.5°  | 2592.9 | 2578.5 | 2580.5 | 2555.8 | 2538.2 | 2519.7 | 2483.6  | 2478.4  | 2452.6  | 2407.2  |
| 5°    | 2818.9 | 2809.6 | 2801.3 | 2773.5 | 2737.4 | 2692.0 | 2631.1  | 2609.4  | 2562.0  | 2483.6  |
| 7.5°  | 2984.0 | 2972.6 | 2976.8 | 2948.9 | 2920.0 | 2869.4 | 2785.9  | 2745.6  | 2682.7  | 2563.0  |
| 10°   | 3016.0 | 3009.8 | 3036.6 | 3046.9 | 3046.9 | 3014.9 | 2933.4  | 2893.2  | 2801.3  | 2648.6  |
| 12.5° | 2836.4 | 2837.5 | 2904.5 | 2985.0 | 3090.3 | 3120.2 | 3065.5  | 3022.2  | 2931.4  | 2739.4  |
| 15°   | 2627.0 | 2628.0 | 2693.0 | 2796.2 | 2968.5 | 3140.8 | 3184.1  | 3156.3  | 3062.4  | 2837.5  |
| 17.5° | 2501.1 | 2495.9 | 2539.3 | 2623.9 | 2804.4 | 3046.9 | 3256.4  | 3274.9  | 3198.6  | 2945.8  |
| 20°   | 2483.6 | 2474.3 | 2497.0 | 2539.3 | 2668.2 | 2929.3 | 3264.6  | 3352.3  | 3338.9  | 3068.6  |
| 22.5° | 2590.9 | 2576.4 | 2564.0 | 2566.1 | 2620.8 | 2831.3 | 3244.0  | 3395.7  | 3483.4  | 3216.1  |
| 25°   | 2803.4 | 2780.7 | 2740.5 | 2688.9 | 2677.5 | 2810.6 | 3229.5  | 3443.1  | 3617.5  | 3405.0  |
| 27.5° | 3063.4 | 3031.4 | 2954.1 | 2876.7 | 2810.6 | 2868.4 | 3259.5  | 3518.5  | 3769.2  | 3624.7  |
| 30°   | 3349.2 | 3310.0 | 3232.6 | 3086.1 | 2980.9 | 2997.4 | 3330.7  | 3617.5  | 3963.2  | 3873.4  |
| 32.5° | 3769.2 | 3678.4 | 3543.2 | 3319.3 | 3180.0 | 3136.7 | 3438.0  | 3743.4  | 4203.6  | 4204.6  |
| 35°   | 4129.3 | 4078.7 | 3942.5 | 3663.9 | 3378.1 | 3321.4 | 3579.3  | 3920.9  | 4536.8  | 4643.1  |
| 37.5° | 4365.6 | 4296.4 | 4176.7 | 3967.3 | 3685.6 | 3511.2 | 3768.1  | 4138.6  | 4889.7  | 5142.5  |
| 40°   | 4629.7 | 4561.6 | 4402.7 | 4205.6 | 4042.6 | 3837.3 | 4006.5  | 4389.3  | 5276.6  | 5655.3  |
| 42.5° | 4948.5 | 4859.8 | 4672.0 | 4459.5 | 4289.2 | 4266.5 | 4318.1  | 4701.9  | 5673.9  | 6212.5  |
| 45°   | 5323.1 | 5239.5 | 5023.9 | 4755.6 | 4606.0 | 4565.7 | 4710.2  | 5066.2  | 6116.5  | 6823.3  |
| 47.5° | 5673.9 | 5576.9 | 5344.7 | 5100.2 | 4934.1 | 4807.2 | 5127.0  | 5496.4  | 6618.0  | 7462.0  |
| 50°   | 5972.1 | 5873.0 | 5660.5 | 5399.4 | 5287.0 | 5120.8 | 5536.7  | 5976.2  | 7115.3  | 8111.0  |
| 52.5° | 6176.4 | 6088.7 | 5839.0 | 5661.5 | 5585.2 | 5501.6 | 6016.4  | 6484.9  | 7610.6  | 8705.3  |
| 55°   | 6129.9 | 6051.5 | 5831.8 | 5819.4 | 5814.2 | 5901.9 | 6590.1  | 7061.7  | 8115.1  | 9267.7  |
| 57.5° | 5982.4 | 5893.7 | 5619.2 | 5808.0 | 5990.7 | 6258.9 | 7211.3  | 7743.7  | 8668.2  | 9798.0  |
| 60°   | 5548.0 | 5517.1 | 5349.9 | 5786.4 | 6064.9 | 6608.7 | 7921.2  | 8428.8  | 9266.6  | 10264.4 |
| 62.5° | 4628.7 | 4655.5 | 4654.5 | 5831.8 | 6199.1 | 7007.0 | 8566.0  | 9122.2  | 9851.7  | 10713.2 |
| 65°   | 3465.8 | 3558.7 | 3677.3 | 5423.2 | 6378.6 | 7717.9 | 9336.8  | 9874.4  | 10446.0 | 11235.3 |
| 67.5° | 2328.8 | 2403.1 | 2483.6 | 4449.1 | 5844.1 | 8464.9 | 10617.3 | 10905.1 | 11157.9 | 11814.2 |
| 70°   | 1333.1 | 1356.8 | 1469.3 | 2778.6 | 4504.9 | 8258.6 | 12702.5 | 12806.7 | 12219.7 | 12527.1 |
| 72.5° | 747.0  | 738.8  | 887.4  | 1318.6 | 2517.6 | 7072.0 | 13433.1 | 14449.4 | 13169.9 | 12515.8 |
| 75°   | 499.4  | 500.4  | 610.8  | 831.6  | 981.2  | 4950.6 | 11575.8 | 13398.0 | 12600.4 | 11098.1 |
| 77.5° | 340.5  | 351.8  | 448.8  | 642.8  | 454.0  | 2415.5 | 7658.0  | 9385.3  | 10201.4 | 8570.2  |
| 80°   | 147.5  | 148.6  | 296.1  | 461.2  | 306.4  | 768.7  | 3970.4  | 5028.0  | 6398.2  | 4812.3  |
| 82.5° | 76.4   | 86.7   | 188.8  | 298.2  | 192.9  | 269.3  | 1875.8  | 2196.7  | 2684.8  | 1412.5  |
| 85°   | 26.8   | 32.0   | 116.6  | 146.5  | 97.0   | 96.0   | 653.1   | 665.5   | 568.5   | 212.6   |
| 87.5° | 0.0    | 5.2    | 45.4   | 36.1   | 12.4   | 11.3   | 77.4    | 65.0    | 51.6    | 29.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P949625  
 CATALOG NUMBER: GALN-SB4B-827-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2337.0 | 0°    | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 | 2337.0 |
| 2360.8 | 2.5°  | 2339.1 | 2311.2 | 2265.8 | 2210.1 | 2145.1 | 2110.0 | 2059.5 | 2028.5 | 2000.7 | 2001.7 |
| 2392.8 | 5°    | 2342.2 | 2295.8 | 2180.2 | 2057.4 | 1921.2 | 1821.1 | 1709.7 | 1631.3 | 1571.4 | 1557.0 |
| 2425.8 | 7.5°  | 2351.5 | 2273.1 | 2084.2 | 1879.9 | 1652.9 | 1484.8 | 1331.0 | 1234.0 | 1179.4 | 1164.9 |
| 2459.8 | 10°   | 2363.9 | 2248.3 | 1975.9 | 1663.3 | 1381.6 | 1179.4 | 1051.4 | 989.5  | 964.7  | 946.2  |
| 2503.2 | 12.5° | 2374.2 | 2222.5 | 1839.7 | 1439.4 | 1140.1 | 982.3  | 885.3  | 833.7  | 812.0  | 798.6  |
| 2553.7 | 15°   | 2391.7 | 2188.5 | 1692.2 | 1230.9 | 977.1  | 848.1  | 756.3  | 718.1  | 711.9  | 714.0  |
| 2609.4 | 17.5° | 2409.3 | 2155.4 | 1527.1 | 1067.9 | 857.4  | 730.5  | 674.8  | 668.6  | 676.9  | 685.1  |
| 2673.4 | 20°   | 2428.9 | 2108.0 | 1359.9 | 945.1  | 747.0  | 649.0  | 634.6  | 638.7  | 642.8  | 657.3  |
| 2761.1 | 22.5° | 2457.8 | 2048.1 | 1213.4 | 840.9  | 655.2  | 609.8  | 602.6  | 605.7  | 608.8  | 623.2  |
| 2876.7 | 25°   | 2499.0 | 1984.2 | 1094.7 | 745.0  | 597.4  | 577.8  | 570.6  | 570.6  | 574.7  | 588.1  |
| 3010.8 | 27.5° | 2542.4 | 1893.4 | 998.8  | 656.2  | 563.4  | 542.7  | 530.3  | 530.3  | 535.5  | 551.0  |
| 3179.0 | 30°   | 2590.9 | 1810.8 | 923.5  | 590.2  | 534.5  | 507.6  | 491.1  | 487.0  | 493.2  | 512.8  |
| 3422.5 | 32.5° | 2678.6 | 1757.2 | 869.8  | 559.2  | 508.7  | 475.7  | 453.0  | 441.6  | 447.8  | 470.5  |
| 3763.0 | 35°   | 2811.7 | 1744.8 | 832.7  | 543.8  | 483.9  | 446.8  | 414.8  | 397.2  | 402.4  | 426.1  |
| 4182.9 | 37.5° | 2967.5 | 1770.6 | 796.6  | 523.1  | 460.2  | 418.9  | 376.6  | 353.9  | 362.2  | 383.8  |
| 4662.7 | 40°   | 3191.4 | 1877.9 | 768.7  | 507.6  | 436.5  | 385.9  | 338.4  | 315.7  | 329.1  | 347.7  |
| 5162.1 | 42.5° | 3461.7 | 2068.8 | 761.5  | 493.2  | 407.6  | 350.8  | 303.4  | 286.8  | 297.2  | 314.7  |
| 5666.7 | 45°   | 3797.0 | 2312.3 | 794.5  | 474.6  | 375.6  | 316.8  | 275.5  | 266.2  | 269.3  | 286.8  |
| 6143.4 | 47.5° | 4157.1 | 2562.0 | 885.3  | 458.1  | 347.7  | 288.9  | 253.8  | 245.6  | 243.5  | 260.0  |
| 6578.8 | 50°   | 4521.4 | 2783.8 | 992.6  | 445.7  | 328.1  | 266.2  | 237.3  | 227.0  | 221.8  | 232.2  |
| 7009.0 | 52.5° | 4881.5 | 2960.2 | 1062.8 | 425.1  | 308.5  | 243.5  | 222.9  | 207.4  | 198.1  | 203.3  |
| 7437.2 | 55°   | 5246.7 | 3115.0 | 1066.9 | 394.1  | 289.9  | 229.1  | 208.4  | 190.9  | 179.5  | 179.5  |
| 7850.0 | 57.5° | 5588.2 | 3251.2 | 1006.0 | 352.9  | 264.1  | 215.6  | 188.8  | 174.4  | 162.0  | 157.9  |
| 8216.3 | 60°   | 5890.6 | 3352.3 | 904.9  | 306.4  | 241.4  | 198.1  | 169.2  | 157.9  | 142.4  | 134.1  |
| 8542.3 | 62.5° | 6159.9 | 3401.9 | 766.6  | 259.0  | 213.6  | 177.5  | 150.6  | 138.3  | 117.6  | 107.3  |
| 8873.5 | 65°   | 6387.9 | 3351.3 | 622.2  | 214.6  | 189.9  | 154.8  | 129.0  | 116.6  | 93.9   | 81.5   |
| 9246.0 | 67.5° | 6613.9 | 3120.2 | 470.5  | 180.6  | 165.1  | 130.0  | 106.3  | 94.9   | 78.4   | 68.1   |
| 9517.4 | 70°   | 6642.8 | 2634.2 | 329.1  | 151.7  | 137.2  | 100.1  | 85.6   | 78.4   | 64.0   | 54.7   |
| 8911.7 | 72.5° | 5913.3 | 1895.4 | 200.2  | 123.8  | 107.3  | 71.2   | 68.1   | 61.9   | 47.5   | 41.3   |
| 7281.4 | 75°   | 4726.7 | 1161.8 | 117.6  | 92.9   | 71.2   | 50.6   | 50.6   | 44.4   | 32.0   | 26.8   |
| 5026.9 | 77.5° | 3266.7 | 607.7  | 69.1   | 59.8   | 42.3   | 29.9   | 33.0   | 26.8   | 15.5   | 12.4   |
| 1991.4 | 80°   | 1308.3 | 231.1  | 37.1   | 27.9   | 19.6   | 13.4   | 11.3   | 6.2    | 3.1    | 2.1    |
| 408.6  | 82.5° | 261.0  | 60.9   | 12.4   | 7.2    | 7.2    | 3.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 112.5  | 85°   | 67.1   | 13.4   | 3.1    | 2.1    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.1   | 87.5° | 20.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O

|             |
|-------------|
| <u>180°</u> |
| 2337.0      |
| 2024.4      |
| 1578.7      |
| 1179.4      |
| 957.5       |
| 805.8       |
| 717.1       |
| 688.2       |
| 661.4       |
| 627.3       |
| 593.3       |
| 557.2       |
| 518.0       |
| 476.7       |
| 433.4       |
| 390.0       |
| 350.8       |
| 317.8       |
| 295.1       |
| 270.3       |
| 236.3       |
| 207.4       |
| 181.6       |
| 158.9       |
| 132.1       |
| 106.3       |
| 81.5        |
| 68.1        |
| 53.7        |
| 40.2        |
| 26.8        |
| 12.4        |
| 3.1         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

F REPORT)