

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: P941479

Luminaire Tested: **GALN-SB5A-740-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

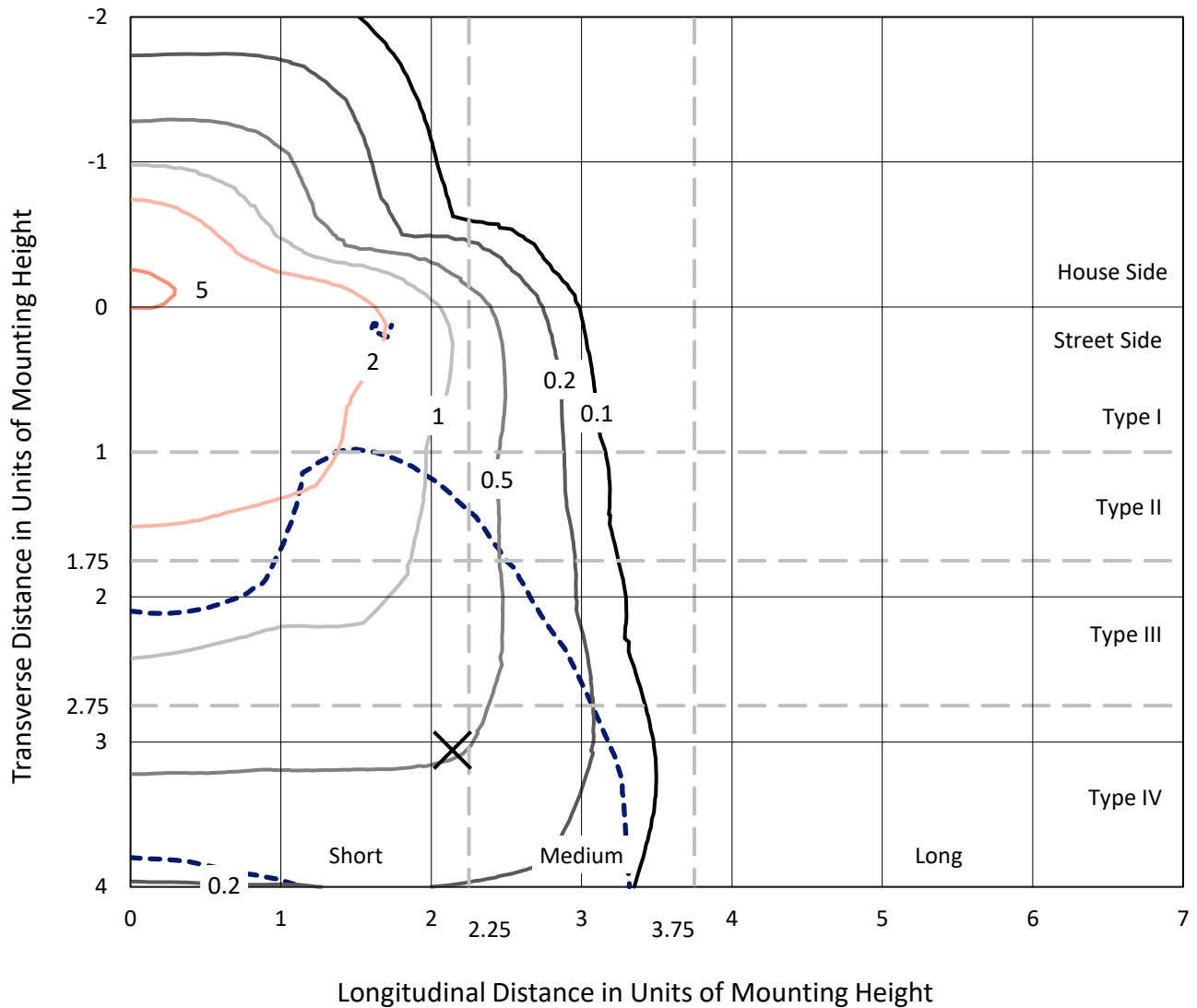
Lumens per Lamp: N/A  
Luminaire Lumens: 23694 lumens  
Efficiency: N/A  
Efficacy: 167.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P941479  
 CATALOG NUMBER: GALN-SB5A-740-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

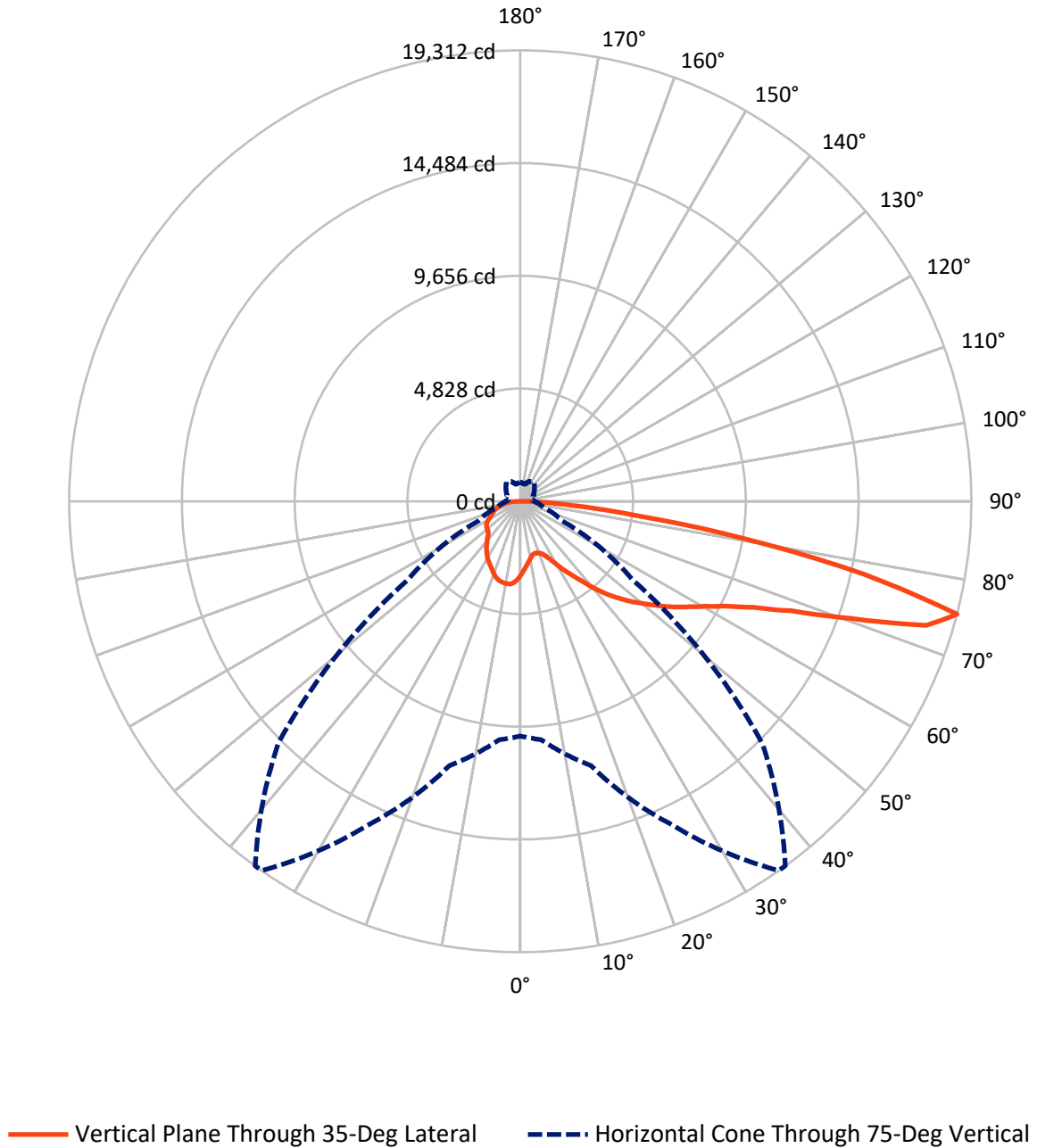
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P941479  
CATALOG NUMBER: GALN-SB5A-740-U-T4FT

### Luminous Intensity Polar Plot



REPORT NUMBER: P941479  
 CATALOG NUMBER: GALN-SB5A-740-U-T4FT

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5638.6   | 0.0    | 5638.6  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 18055.4  | 0.0    | 18055.4 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 23694.0  | 0.0    | 23694.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 298.9   | 1.3       |
| 10°-20°   | 862.3   | 3.6       |
| 20°-30°   | 1448.0  | 6.1       |
| 30°-40°   | 2250.4  | 9.5       |
| 40°-50°   | 3340.2  | 14.1      |
| 50°-60°   | 4611.3  | 19.5      |
| 60°-70°   | 5594.5  | 23.6      |
| 70°-80°   | 4623.5  | 19.5      |
| 80°-90°   | 665.0   | 2.8       |
| 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°    | 23694.0 | 100.0     |
| 0°-180°   | 23694.0 | 100.0     |

**Coefficient of Utilization**



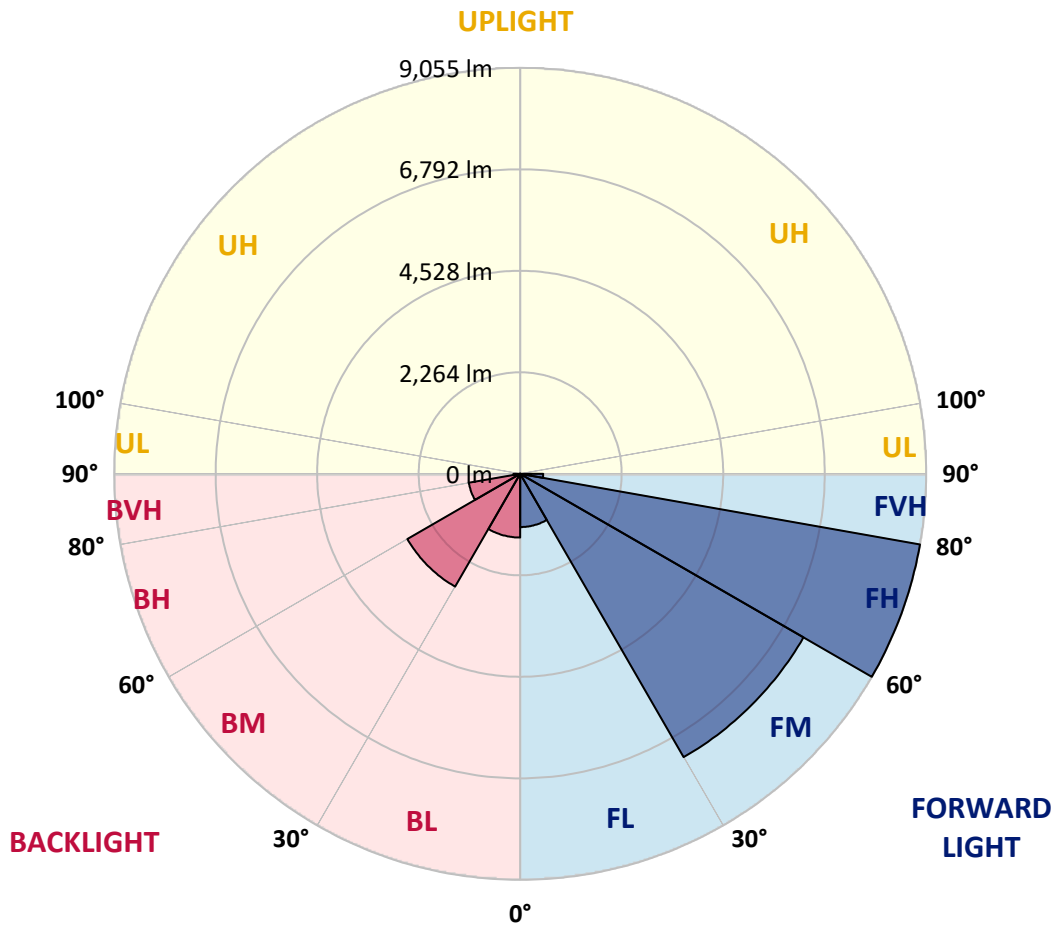
REPORT NUMBER: P941479  
 CATALOG NUMBER: GALN-SB5A-740-U-T4FT

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1188.2 | 5.0       |                         |      |          |
| FM (30°-60°)   | 7296.5 | 30.8      |                         |      |          |
| FH (60°-80°)   | 9055.5 | 38.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 515.3  | 2.2       |                         |      | G4/750   |
| BL (0°-30°)    | 1421.0 | 6.0       | B3/2500                 |      |          |
| BM (30°-60°)   | 2905.3 | 12.3      | B3/5000                 |      |          |
| BH (60°-80°)   | 1162.5 | 4.9       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 149.7  | 0.6       |                         |      | G2/225   |
| 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 Short



REPORT NUMBER: P941479  
 CATALOG NUMBER: GALN-SB5A-740-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°    | 75°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3157.4  | 3157.4  | 3157.4  | 3157.4  | 3157.4  | 3157.4  | 3157.4  | 3157.4  | 3157.4 | 3157.4 |
| 2.5°  | 2911.5  | 2929.4  | 2937.1  | 2933.2  | 2952.4  | 2949.9  | 2976.8  | 3010.1  | 3056.2 | 3101.0 |
| 5°    | 2687.3  | 2706.5  | 2723.2  | 2738.5  | 2775.7  | 2787.2  | 2829.5  | 2893.5  | 2978.1 | 3063.9 |
| 7.5°  | 2478.5  | 2495.2  | 2520.8  | 2549.0  | 2611.7  | 2623.3  | 2693.7  | 2793.6  | 2911.5 | 3037.0 |
| 10°   | 2308.2  | 2324.8  | 2351.7  | 2383.7  | 2461.9  | 2476.0  | 2565.6  | 2698.8  | 2852.5 | 3011.4 |
| 12.5° | 2235.1  | 2240.3  | 2255.6  | 2287.7  | 2355.6  | 2364.5  | 2463.1  | 2615.6  | 2794.9 | 2992.2 |
| 15°   | 2231.3  | 2241.6  | 2242.8  | 2259.5  | 2315.8  | 2319.7  | 2410.6  | 2561.8  | 2759.0 | 2988.3 |
| 17.5° | 2269.7  | 2277.4  | 2265.9  | 2276.1  | 2323.5  | 2329.9  | 2401.7  | 2536.2  | 2747.5 | 3005.0 |
| 20°   | 2372.2  | 2378.6  | 2344.0  | 2329.9  | 2364.5  | 2369.6  | 2440.1  | 2552.8  | 2759.0 | 3039.5 |
| 22.5° | 2590.0  | 2593.8  | 2509.3  | 2451.6  | 2454.2  | 2456.7  | 2518.2  | 2620.7  | 2803.9 | 3102.3 |
| 25°   | 2929.4  | 2926.8  | 2792.3  | 2680.9  | 2616.9  | 2602.8  | 2643.8  | 2730.9  | 2879.4 | 3185.6 |
| 27.5° | 3326.5  | 3307.2  | 3172.8  | 3006.2  | 2866.6  | 2846.1  | 2837.2  | 2874.3  | 2987.0 | 3295.7 |
| 30°   | 3774.8  | 3756.8  | 3612.1  | 3394.3  | 3200.9  | 3167.6  | 3083.1  | 3063.9  | 3147.1 | 3445.6 |
| 32.5° | 4266.6  | 4255.1  | 4082.2  | 3818.3  | 3559.6  | 3521.2  | 3379.0  | 3327.7  | 3393.1 | 3672.3 |
| 35°   | 4679.1  | 4668.8  | 4525.4  | 4253.8  | 3937.4  | 3890.1  | 3745.3  | 3687.7  | 3721.0 | 3963.1 |
| 37.5° | 5051.8  | 5046.7  | 4923.7  | 4709.8  | 4383.2  | 4325.6  | 4162.9  | 4143.7  | 4137.3 | 4346.0 |
| 40°   | 5397.7  | 5384.8  | 5256.8  | 5144.0  | 4902.0  | 4849.4  | 4706.0  | 4689.3  | 4640.7 | 4817.4 |
| 42.5° | 5780.6  | 5747.3  | 5561.6  | 5509.1  | 5443.8  | 5400.2  | 5314.4  | 5317.0  | 5209.4 | 5349.0 |
| 45°   | 6093.2  | 6074.0  | 5883.1  | 5852.4  | 5922.8  | 5904.9  | 5979.2  | 5998.4  | 5789.6 | 5906.2 |
| 47.5° | 6428.8  | 6410.8  | 6249.4  | 6227.7  | 6418.5  | 6423.6  | 6686.2  | 6692.6  | 6355.8 | 6485.1 |
| 50°   | 6842.5  | 6816.9  | 6656.8  | 6683.7  | 6897.6  | 6916.8  | 7397.1  | 7353.6  | 6877.1 | 7073.1 |
| 52.5° | 7115.3  | 7130.7  | 7096.1  | 7139.7  | 7431.7  | 7449.6  | 8096.5  | 7985.0  | 7393.3 | 7653.3 |
| 55°   | 7316.4  | 7347.2  | 7454.8  | 7554.7  | 7995.3  | 8013.2  | 8756.1  | 8585.8  | 7821.1 | 8191.3 |
| 57.5° | 7575.2  | 7531.6  | 7732.7  | 7927.4  | 8530.7  | 8578.1  | 9397.9  | 9164.7  | 8200.2 | 8655.0 |
| 60°   | 7946.6  | 7915.9  | 8072.1  | 8360.3  | 9130.2  | 9205.7  | 10076.7 | 9686.1  | 8478.2 | 9022.6 |
| 62.5° | 8699.8  | 8622.9  | 8647.3  | 8902.2  | 9885.9  | 9985.8  | 10842.7 | 10140.8 | 8616.5 | 9166.0 |
| 65°   | 9825.7  | 9693.8  | 9570.8  | 9747.5  | 10950.3 | 11048.9 | 11707.3 | 10498.1 | 8565.3 | 8888.1 |
| 67.5° | 11243.6 | 11113.0 | 10961.8 | 11128.3 | 12518.1 | 12596.2 | 12774.3 | 10699.2 | 8161.8 | 7817.3 |
| 70°   | 12413.1 | 12364.4 | 12545.0 | 13230.3 | 15022.2 | 15024.8 | 14142.3 | 10532.7 | 7056.4 | 5542.4 |
| 72.5° | 12258.1 | 12228.6 | 13180.3 | 15298.9 | 18178.3 | 18110.5 | 15437.2 | 9272.3  | 4753.4 | 2500.3 |
| 75°   | 10056.2 | 10247.1 | 11721.4 | 15261.8 | 19311.9 | 19303.0 | 14644.4 | 5894.6  | 1966.2 | 1036.2 |
| 77.5° | 5392.5  | 5694.8  | 7609.7  | 11268.0 | 15076.0 | 15302.8 | 10295.8 | 2062.2  | 844.1  | 663.5  |
| 80°   | 1758.7  | 2022.5  | 3033.1  | 5737.1  | 9796.2  | 9754.0  | 4412.7  | 809.5   | 577.7  | 470.1  |
| 82.5° | 746.8   | 777.5   | 1355.2  | 2709.1  | 5027.5  | 4949.3  | 1405.1  | 465.0   | 406.0  | 321.5  |
| 85°   | 292.0   | 326.6   | 598.2   | 1252.7  | 2177.5  | 2130.1  | 507.2   | 230.6   | 260.0  | 210.1  |
| 87.5° | 96.1    | 116.6   | 213.9   | 429.1   | 677.6   | 653.3   | 124.2   | 79.4    | 112.7  | 96.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    |

REPORT NUMBER: P941479  
 CATALOG NUMBER: GALN-SB5A-740-U-T4FT

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3157.4 | 0°    | 3157.4 | 3157.4 | 3157.4 | 3157.4 | 3157.4 | 3157.4 | 3157.4 | 3157.4 | 3157.4 | 3157.4 |
| 3166.4 | 2.5°  | 3184.3 | 3204.8 | 3229.1 | 3265.0 | 3295.7 | 3321.3 | 3348.2 | 3364.9 | 3371.3 | 3390.5 |
| 3171.5 | 5°    | 3207.3 | 3252.2 | 3312.4 | 3371.3 | 3428.9 | 3463.5 | 3494.3 | 3509.6 | 3523.7 | 3534.0 |
| 3185.6 | 7.5°  | 3245.8 | 3303.4 | 3398.2 | 3475.0 | 3523.7 | 3551.9 | 3572.4 | 3567.3 | 3572.4 | 3575.0 |
| 3200.9 | 10°   | 3279.1 | 3359.8 | 3472.5 | 3545.5 | 3582.6 | 3583.9 | 3578.8 | 3560.9 | 3551.9 | 3553.2 |
| 3224.0 | 12.5° | 3318.8 | 3408.4 | 3530.1 | 3591.6 | 3601.9 | 3573.7 | 3551.9 | 3521.2 | 3509.6 | 3504.5 |
| 3258.6 | 15°   | 3372.6 | 3475.0 | 3592.9 | 3615.9 | 3590.3 | 3554.5 | 3517.3 | 3467.4 | 3441.7 | 3421.2 |
| 3317.5 | 17.5° | 3437.9 | 3550.6 | 3641.6 | 3624.9 | 3569.8 | 3510.9 | 3450.7 | 3375.1 | 3322.6 | 3300.8 |
| 3398.2 | 20°   | 3528.8 | 3630.0 | 3678.7 | 3605.7 | 3522.4 | 3432.8 | 3330.3 | 3238.1 | 3189.4 | 3167.6 |
| 3500.7 | 22.5° | 3639.0 | 3736.3 | 3714.6 | 3572.4 | 3454.6 | 3311.1 | 3183.0 | 3115.1 | 3090.8 | 3075.4 |
| 3632.6 | 25°   | 3770.9 | 3854.2 | 3740.2 | 3523.7 | 3343.1 | 3149.7 | 3051.1 | 3029.3 | 3017.8 | 3006.2 |
| 3794.0 | 27.5° | 3942.6 | 3987.4 | 3759.4 | 3452.0 | 3168.9 | 2978.1 | 2942.2 | 2946.0 | 2942.2 | 2923.0 |
| 4018.1 | 30°   | 4169.3 | 4160.3 | 3777.3 | 3335.4 | 2969.1 | 2823.1 | 2825.6 | 2842.3 | 2844.8 | 2832.0 |
| 4330.7 | 32.5° | 4467.7 | 4376.8 | 3786.3 | 3184.3 | 2778.2 | 2687.3 | 2689.9 | 2707.8 | 2720.6 | 2698.8 |
| 4739.3 | 35°   | 4828.9 | 4629.1 | 3772.2 | 2994.7 | 2630.9 | 2557.9 | 2538.7 | 2543.8 | 2547.7 | 2527.2 |
| 5235.0 | 37.5° | 5250.4 | 4912.2 | 3709.4 | 2784.6 | 2509.3 | 2431.1 | 2390.1 | 2355.6 | 2335.1 | 2315.8 |
| 5796.0 | 40°   | 5712.8 | 5220.9 | 3594.2 | 2579.7 | 2373.5 | 2296.6 | 2235.1 | 2169.8 | 2100.7 | 2075.0 |
| 6390.3 | 42.5° | 6196.9 | 5538.6 | 3454.6 | 2383.7 | 2217.2 | 2154.5 | 2089.1 | 1994.3 | 1890.6 | 1838.1 |
| 7007.7 | 45°   | 6699.0 | 5863.9 | 3317.5 | 2190.3 | 2057.1 | 2030.2 | 1954.6 | 1840.6 | 1727.9 | 1661.3 |
| 7626.4 | 47.5° | 7190.9 | 6171.3 | 3116.4 | 1995.6 | 1907.2 | 1936.7 | 1877.8 | 1772.7 | 1647.2 | 1542.2 |
| 8239.9 | 50°   | 7661.0 | 6459.5 | 2787.2 | 1798.4 | 1785.6 | 1908.5 | 1852.2 | 1701.0 | 1557.6 | 1423.1 |
| 8842.0 | 52.5° | 8127.2 | 6692.6 | 2365.8 | 1619.0 | 1720.2 | 1900.8 | 1818.9 | 1652.3 | 1476.9 | 1336.0 |
| 9408.1 | 55°   | 8523.0 | 6813.0 | 1959.8 | 1465.3 | 1625.4 | 1835.5 | 1779.2 | 1594.7 | 1362.9 | 1213.0 |
| 9796.2 | 57.5° | 8748.5 | 6715.7 | 1621.6 | 1314.2 | 1494.8 | 1727.9 | 1711.3 | 1471.7 | 1227.1 | 1111.8 |
| 9871.8 | 60°   | 8651.1 | 6321.2 | 1344.9 | 1182.3 | 1370.5 | 1611.4 | 1593.4 | 1350.1 | 1123.3 | 1014.5 |
| 9467.0 | 62.5° | 8114.4 | 5569.3 | 1125.9 | 1067.0 | 1257.8 | 1492.2 | 1475.6 | 1256.5 | 1043.9 | 938.9  |
| 8392.4 | 65°   | 7033.3 | 4530.5 | 955.5  | 970.9  | 1143.8 | 1348.8 | 1373.1 | 1178.4 | 981.2  | 878.7  |
| 6492.8 | 67.5° | 5364.4 | 3281.6 | 822.3  | 887.7  | 1032.4 | 1207.9 | 1278.3 | 1122.1 | 928.6  | 831.3  |
| 3756.8 | 70°   | 3057.5 | 1863.7 | 709.6  | 807.0  | 933.8  | 1077.2 | 1205.3 | 1077.2 | 872.3  | 791.6  |
| 1407.7 | 72.5° | 1159.2 | 855.6  | 613.5  | 726.3  | 839.0  | 967.1  | 1124.6 | 1006.8 | 807.0  | 746.8  |
| 727.5  | 75°   | 618.7  | 521.3  | 516.2  | 631.5  | 730.1  | 859.5  | 1023.4 | 937.6  | 758.3  | 789.0  |
| 503.4  | 77.5° | 421.4  | 368.9  | 431.7  | 540.5  | 611.0  | 740.4  | 915.8  | 832.6  | 657.1  | 654.5  |
| 348.4  | 80°   | 292.0  | 261.3  | 351.0  | 435.5  | 472.6  | 622.5  | 799.3  | 714.7  | 535.4  | 499.5  |
| 215.2  | 82.5° | 175.5  | 170.4  | 262.6  | 325.3  | 334.3  | 480.3  | 662.2  | 599.5  | 438.1  | 381.7  |
| 128.1  | 85°   | 96.1   | 101.2  | 167.8  | 190.9  | 194.7  | 335.6  | 518.8  | 463.7  | 336.9  | 283.1  |
| 46.1   | 87.5° | 26.9   | 34.6   | 61.5   | 75.6   | 93.5   | 174.2  | 308.7  | 275.4  | 169.1  | 117.8  |
| 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>  |
|--------------|
| 3157.4       |
| 3389.2       |
| 3536.5       |
| 3578.8       |
| 3555.7       |
| 3501.9       |
| 3427.7       |
| 3302.1       |
| 3165.1       |
| 3078.0       |
| 3006.2       |
| 2926.8       |
| 2838.4       |
| 2709.1       |
| 2541.3       |
| 2328.7       |
| 2086.6       |
| 1844.5       |
| 1656.2       |
| 1530.7       |
| 1411.5       |
| 1320.6       |
| 1200.2       |
| 1096.4       |
| 999.1        |
| 922.2        |
| 862.0        |
| 815.9        |
| 781.3        |
| 736.5        |
| <i>814.6</i> |
| 603.3        |
| 477.8        |
| 384.3        |
| 285.6        |
| 117.8        |
| 0.0          |

F REPORT)