

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: P529176

Luminaire Tested: **GALN-SA4B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18881 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

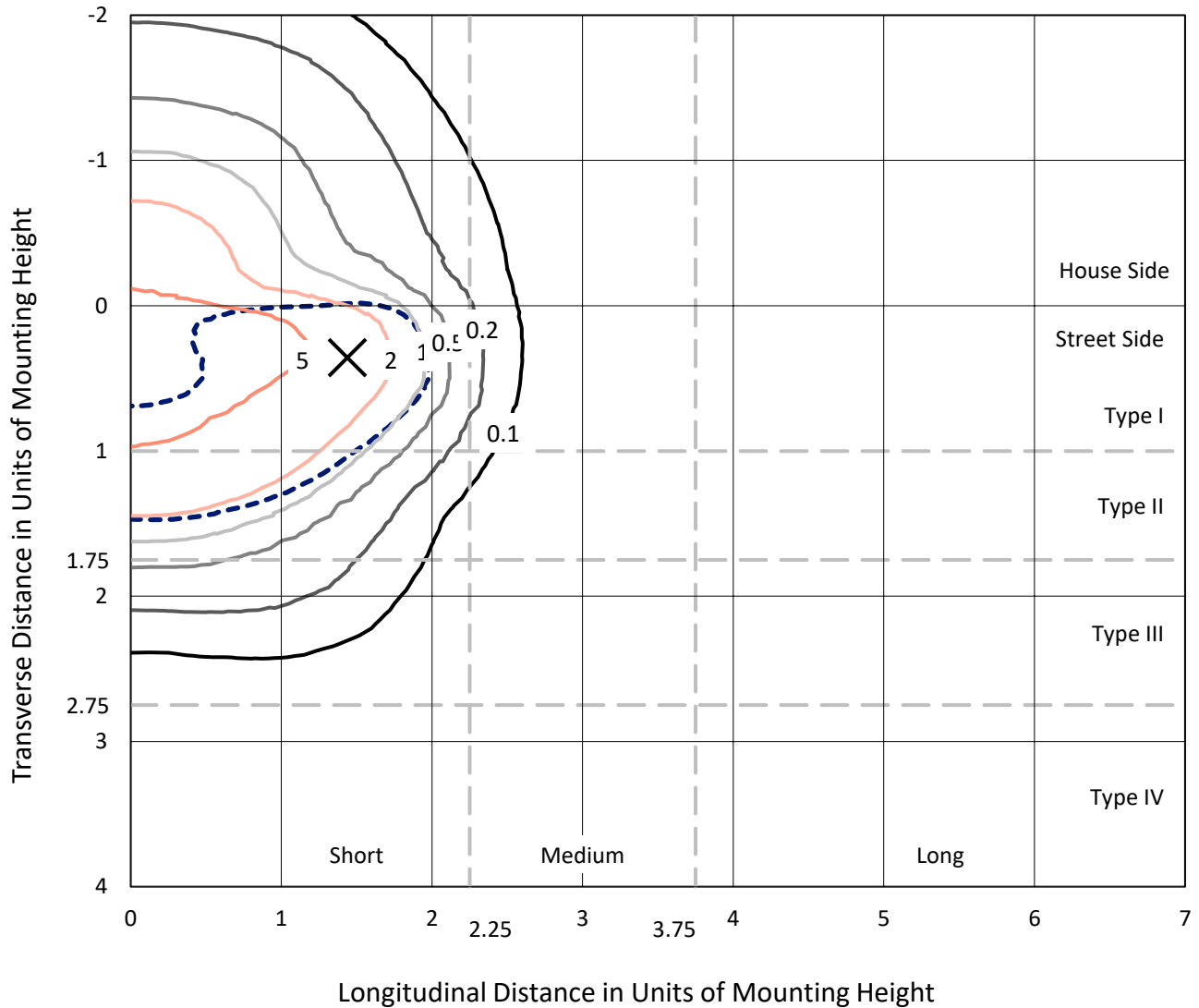
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529176  
 CATALOG NUMBER: GALN-SA4B-740-U-T2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

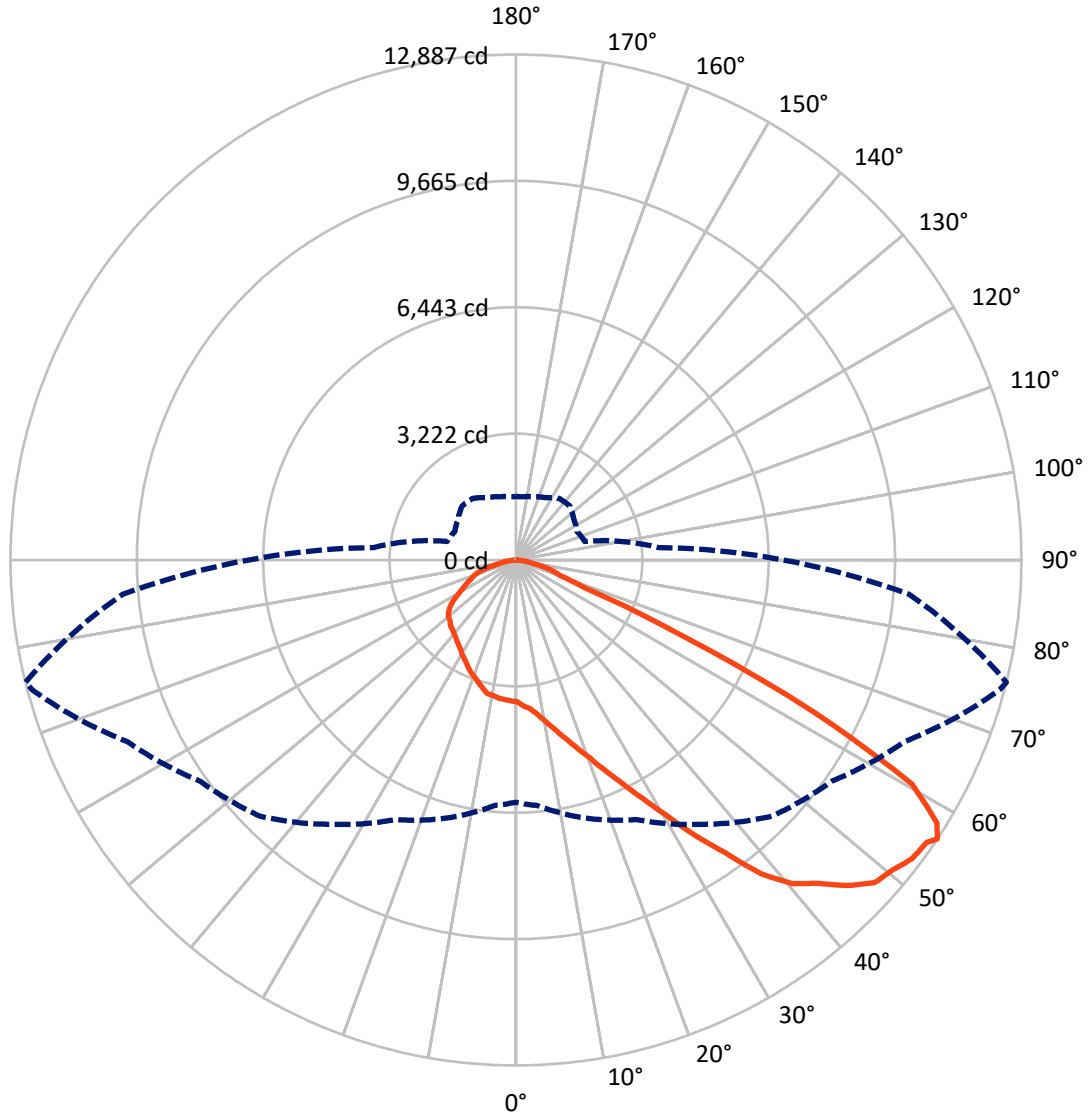
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

REPORT NUMBER: P529176  
CATALOG NUMBER: GALN-SA4B-740-U-T2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



REPORT NUMBER: P529176  
 CATALOG NUMBER: GALN-SA4B-740-U-T2-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5076.5   | 0.0    | 5076.5  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 13804.5  | 0.0    | 13804.5 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 18881.0  | 0.0    | 18881.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 358.3   | 1.9       |
| 10°-20°   | 1125.4  | 6.0       |
| 20°-30°   | 1968.2  | 10.4      |
| 30°-40°   | 3081.7  | 16.3      |
| 40°-50°   | 4482.9  | 23.7      |
| 50°-60°   | 4927.0  | 26.1      |
| 60°-70°   | 2199.2  | 11.6      |
| 70°-80°   | 635.2   | 3.4       |
| 80°-90°   | 103.0   | 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°    | 18881.0 | 100.0     |
| 0°-180°   | 18881.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P529176

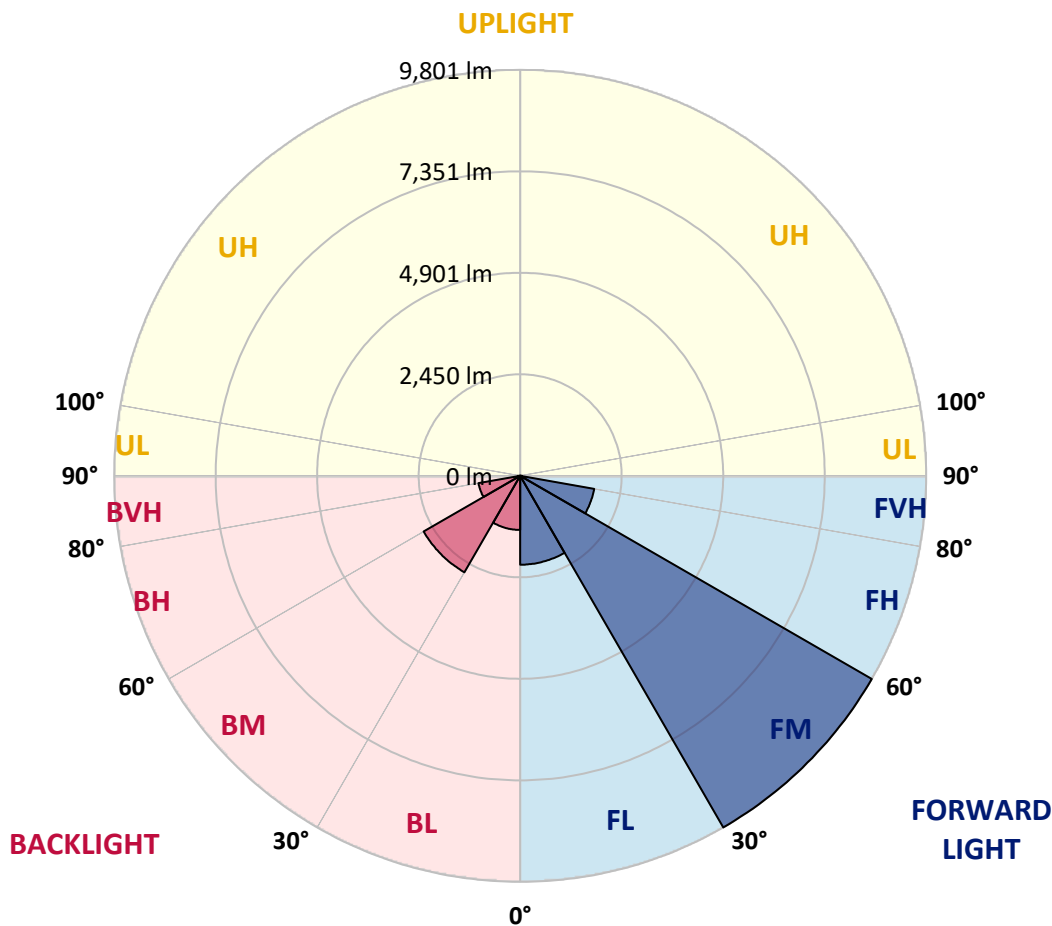
CATALOG NUMBER: GALN-SA4B-740-U-T2-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2145.6 | 11.4      |                         |      |         |
| FM (30°-60°)   | 9801.5 | 51.9      |                         |      |         |
| FH (60°-80°)   | 1813.0 | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 44.4   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1306.3 | 6.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 2690.2 | 14.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 1021.4 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 58.7   | 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 II Short





REPORT NUMBER: P529176

CATALOG NUMBER: GALN-SA4B-740-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 76°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6  | 3612.6  | 3612.6  | 3612.6  |
| 2.5°  | 3979.8 | 3916.1 | 3911.2 | 3894.1 | 3903.9 | 3859.8 | 3813.3 | 3752.1  | 3688.5  | 3727.7  | 3634.7  |
| 5°    | 4258.8 | 4173.1 | 4207.4 | 4148.7 | 4156.0 | 4097.3 | 4001.8 | 3930.8  | 3852.5  | 3806.0  | 3739.9  |
| 7.5°  | 4356.7 | 4364.0 | 4388.5 | 4378.7 | 4329.8 | 4329.8 | 4266.1 | 4141.3  | 4004.3  | 3977.3  | 3867.2  |
| 10°   | 4488.9 | 4491.3 | 4464.4 | 4471.7 | 4540.3 | 4508.5 | 4452.2 | 4398.3  | 4222.1  | 4190.3  | 3994.5  |
| 12.5° | 4535.4 | 4491.3 | 4535.4 | 4574.5 | 4655.3 | 4699.4 | 4687.1 | 4648.0  | 4459.5  | 4437.5  | 4151.1  |
| 15°   | 4542.7 | 4515.8 | 4552.5 | 4640.6 | 4711.6 | 4897.6 | 4990.6 | 4963.7  | 4714.1  | 4716.5  | 4327.3  |
| 17.5° | 4508.5 | 4545.2 | 4559.9 | 4635.7 | 4799.7 | 4973.5 | 5242.7 | 5279.4  | 5073.8  | 5042.0  | 4550.1  |
| 20°   | 4555.0 | 4528.0 | 4547.6 | 4616.1 | 4834.0 | 5105.7 | 5458.1 | 5700.4  | 5411.6  | 5389.6  | 4780.1  |
| 22.5° | 4733.6 | 4696.9 | 4692.0 | 4736.1 | 4892.7 | 5174.2 | 5685.7 | 6121.4  | 5822.8  | 5835.0  | 5066.5  |
| 25°   | 4873.1 | 4892.7 | 4875.6 | 4873.1 | 4971.0 | 5277.0 | 5986.8 | 6623.2  | 6380.9  | 6309.9  | 5404.3  |
| 27.5° | 5113.0 | 5159.5 | 5125.2 | 5171.7 | 5149.7 | 5431.2 | 6202.2 | 7178.8  | 6983.0  | 6887.5  | 5710.2  |
| 30°   | 5445.9 | 5470.4 | 5438.5 | 5438.5 | 5372.5 | 5646.6 | 6398.0 | 7758.8  | 7678.1  | 7548.4  | 6070.0  |
| 32.5° | 5884.0 | 5920.7 | 5857.1 | 5820.4 | 5810.6 | 5967.2 | 6750.4 | 8331.6  | 8468.6  | 8358.5  | 6547.3  |
| 35°   | 6464.1 | 6442.0 | 6366.2 | 6331.9 | 6199.7 | 6459.2 | 7274.2 | 8990.0  | 9349.8  | 9154.0  | 7124.9  |
| 37.5° | 6975.6 | 6941.4 | 6936.5 | 6745.5 | 6777.4 | 6990.3 | 7719.7 | 9489.3  | 10204.0 | 10147.7 | 7734.4  |
| 40°   | 7452.9 | 7484.7 | 7536.1 | 7428.4 | 7379.5 | 7614.4 | 8238.6 | 9871.1  | 10867.3 | 10845.3 | 8204.3  |
| 42.5° | 7964.4 | 7935.1 | 8025.6 | 7935.1 | 7861.6 | 8194.5 | 8801.5 | 10135.5 | 11449.8 | 11268.7 | 8696.3  |
| 45°   | 8706.1 | 8613.1 | 8644.9 | 8652.2 | 8598.4 | 8720.7 | 9034.0 | 10326.4 | 11858.6 | 11839.0 | 9056.1  |
| 47.5° | 9325.3 | 9327.8 | 9273.9 | 9232.3 | 9068.3 | 9190.7 | 9293.5 | 10446.3 | 12328.5 | 12296.7 | 9195.6  |
| 50°   | 9555.4 | 9523.6 | 9680.2 | 9770.8 | 9780.6 | 9530.9 | 9496.6 | 10512.4 | 12575.7 | 12436.2 | 9335.1  |
| 52.5° | 8728.1 | 8757.5 | 9004.7 | 9543.1 | 9854.0 | 9880.9 | 9734.0 | 10649.4 | 12676.0 | 12646.7 | 9447.7  |
| 55°   | 7024.6 | 7166.5 | 7572.8 | 8194.5 | 8931.2 | 9741.4 | 9991.0 | 10791.4 | 12729.9 | 12705.4 | 9947.0  |
| 56°   | 6175.3 | 6285.4 | 6814.1 | 7301.1 | 8226.3 | 9234.7 | 9829.5 | 10943.2 | 12771.5 | 12886.5 | 10064.5 |
| 57.5° | 4971.0 | 5098.3 | 5477.7 | 6030.9 | 7122.5 | 8270.4 | 9384.0 | 10757.1 | 12610.0 | 12654.0 | 10150.1 |
| 60°   | 3108.4 | 3120.7 | 3575.9 | 3940.6 | 4709.2 | 5830.1 | 7161.6 | 9359.6  | 11670.1 | 11606.5 | 9117.3  |
| 62.5° | 2038.8 | 2041.3 | 2454.9 | 2753.5 | 3103.5 | 3360.5 | 4214.7 | 6207.1  | 8610.6  | 8498.0  | 6491.0  |
| 65°   | 1431.8 | 1463.7 | 1784.3 | 2183.2 | 2325.2 | 2190.6 | 2163.7 | 3272.4  | 4809.5  | 4648.0  | 3487.8  |
| 67.5° | 1047.6 | 1050.0 | 1333.9 | 1762.3 | 1967.9 | 1666.8 | 1353.5 | 1598.3  | 1904.2  | 1899.3  | 1615.4  |
| 70°   | 692.7  | 722.0  | 939.9  | 1316.8 | 1551.8 | 1338.8 | 1106.3 | 1143.0  | 1211.6  | 1211.6  | 1201.8  |
| 72.5° | 403.9  | 430.8  | 575.2  | 834.6  | 871.3  | 837.1  | 876.2  | 979.0   | 1023.1  | 1020.6  | 1008.4  |
| 75°   | 230.1  | 242.3  | 274.1  | 347.6  | 433.2  | 511.5  | 643.7  | 741.6   | 785.7   | 812.6   | 780.8   |
| 77.5° | 134.6  | 142.0  | 161.5  | 198.3  | 225.2  | 276.6  | 350.0  | 418.5   | 477.3   | 469.9   | 474.8   |
| 80°   | 71.0   | 71.0   | 90.6   | 117.5  | 156.6  | 195.8  | 232.5  | 271.7   | 303.5   | 310.8   | 318.2   |
| 82.5° | 41.6   | 44.1   | 58.7   | 85.7   | 112.6  | 139.5  | 178.7  | 205.6   | 235.0   | 237.4   | 242.3   |
| 85°   | 22.0   | 24.5   | 36.7   | 56.3   | 75.9   | 85.7   | 88.1   | 83.2    | 90.6    | 85.7    | 97.9    |
| 87.5° | 7.3    | 7.3    | 12.2   | 9.8    | 9.8    | 12.2   | 14.7   | 14.7    | 19.6    | 19.6    | 19.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P529176

CATALOG NUMBER: GALN-SA4B-740-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 | 3612.6 |
| 2.5°  | 3632.2 | 3632.2 | 3590.6 | 3512.3 | 3500.0 | 3468.2 | 3438.9 | 3436.4 | 3414.4 | 3394.8 | 3385.0 |
| 5°    | 3700.8 | 3624.9 | 3563.7 | 3492.7 | 3409.5 | 3370.3 | 3326.3 | 3277.3 | 3257.7 | 3277.3 | 3274.9 |
| 7.5°  | 3779.1 | 3715.4 | 3531.9 | 3399.7 | 3304.2 | 3265.1 | 3216.1 | 3164.7 | 3169.6 | 3169.6 | 3135.4 |
| 10°   | 3854.9 | 3769.3 | 3475.6 | 3306.7 | 3167.2 | 3137.8 | 3110.9 | 3130.5 | 3154.9 | 3159.8 | 3137.8 |
| 12.5° | 3982.2 | 3788.9 | 3448.6 | 3213.7 | 3125.6 | 3061.9 | 3079.1 | 3132.9 | 3184.3 | 3169.6 | 3186.8 |
| 15°   | 4077.7 | 3806.0 | 3326.3 | 3118.2 | 3008.1 | 3037.5 | 3098.6 | 3135.4 | 3221.0 | 3211.2 | 3228.4 |
| 17.5° | 4170.7 | 3815.8 | 3206.3 | 2991.0 | 2944.4 | 3025.2 | 3071.7 | 3177.0 | 3203.9 | 3262.6 | 3284.7 |
| 20°   | 4361.6 | 3835.4 | 3084.0 | 2912.6 | 2897.9 | 2991.0 | 3071.7 | 3120.7 | 3179.4 | 3230.8 | 3230.8 |
| 22.5° | 4459.5 | 3825.6 | 3003.2 | 2809.8 | 2856.3 | 2915.1 | 2988.5 | 3071.7 | 3071.7 | 3120.7 | 3123.1 |
| 25°   | 4581.9 | 3786.4 | 2875.9 | 2760.9 | 2795.1 | 2851.4 | 2934.7 | 2905.3 | 2937.1 | 2937.1 | 2976.3 |
| 27.5° | 4721.4 | 3703.2 | 2765.8 | 2672.8 | 2741.3 | 2802.5 | 2814.7 | 2795.1 | 2758.4 | 2753.5 | 2738.8 |
| 30°   | 4834.0 | 3600.4 | 2685.0 | 2643.4 | 2699.7 | 2734.0 | 2694.8 | 2653.2 | 2589.5 | 2584.7 | 2550.4 |
| 32.5° | 4988.2 | 3473.1 | 2584.7 | 2570.0 | 2633.6 | 2636.1 | 2623.8 | 2560.2 | 2467.2 | 2428.0 | 2388.8 |
| 35°   | 5247.6 | 3399.7 | 2508.8 | 2530.8 | 2550.4 | 2543.0 | 2521.0 | 2452.5 | 2359.5 | 2342.3 | 2327.7 |
| 37.5° | 5438.5 | 3345.9 | 2430.5 | 2457.4 | 2474.5 | 2484.3 | 2418.2 | 2342.3 | 2344.8 | 2310.5 | 2300.7 |
| 40°   | 5653.9 | 3311.6 | 2366.8 | 2379.1 | 2381.5 | 2413.3 | 2332.5 | 2295.8 | 2313.0 | 2290.9 | 2305.6 |
| 42.5° | 5930.5 | 3321.4 | 2300.7 | 2290.9 | 2337.4 | 2325.2 | 2286.0 | 2237.1 | 2246.9 | 2180.8 | 2190.6 |
| 45°   | 6077.4 | 3387.5 | 2261.6 | 2217.5 | 2268.9 | 2266.5 | 2215.1 | 2168.6 | 2109.8 | 1982.5 | 1987.4 |
| 47.5° | 6175.3 | 3404.6 | 2168.6 | 2139.2 | 2193.0 | 2224.9 | 2166.1 | 2058.4 | 1975.2 | 1884.6 | 1862.6 |
| 50°   | 6275.6 | 3436.4 | 2124.5 | 2063.3 | 2085.3 | 2161.2 | 2087.8 | 1985.0 | 1904.2 | 1823.5 | 1835.7 |
| 52.5° | 6363.7 | 3497.6 | 2038.8 | 1948.3 | 1987.4 | 2070.7 | 2031.5 | 1906.7 | 1818.6 | 1752.5 | 1732.9 |
| 55°   | 6755.3 | 3634.7 | 1894.4 | 1776.9 | 1870.0 | 1975.2 | 1953.2 | 1801.4 | 1706.0 | 1671.7 | 1666.8 |
| 56°   | 6816.5 | 3639.6 | 1818.6 | 1718.2 | 1803.9 | 1943.4 | 1916.5 | 1754.9 | 1669.3 | 1615.4 | 1617.9 |
| 57.5° | 6826.3 | 3580.8 | 1710.9 | 1664.4 | 1737.8 | 1896.9 | 1862.6 | 1718.2 | 1600.7 | 1551.8 | 1537.1 |
| 60°   | 6006.4 | 2795.1 | 1576.2 | 1546.9 | 1632.5 | 1754.9 | 1742.7 | 1617.9 | 1485.7 | 1429.4 | 1456.3 |
| 62.5° | 4094.8 | 2048.6 | 1471.0 | 1466.1 | 1510.2 | 1630.1 | 1598.3 | 1485.7 | 1375.5 | 1338.8 | 1321.7 |
| 65°   | 2383.9 | 1554.2 | 1368.2 | 1348.6 | 1385.3 | 1449.0 | 1471.0 | 1353.5 | 1238.5 | 1214.0 | 1206.7 |
| 67.5° | 1407.4 | 1285.0 | 1236.0 | 1204.2 | 1192.0 | 1231.1 | 1248.3 | 1179.7 | 1064.7 | 1030.4 | 1059.8 |
| 70°   | 1177.3 | 1143.0 | 1145.5 | 1091.6 | 1062.3 | 1035.3 | 1020.6 | 959.5  | 864.0  | 819.9  | 807.7  |
| 72.5° | 1015.7 | 1001.1 | 991.3  | 942.3  | 915.4  | 854.2  | 790.6  | 729.4  | 658.4  | 621.7  | 624.1  |
| 75°   | 775.9  | 771.0  | 775.9  | 751.4  | 704.9  | 656.0  | 597.2  | 518.9  | 465.0  | 418.5  | 428.3  |
| 77.5° | 462.6  | 477.3  | 484.6  | 474.8  | 455.3  | 411.2  | 374.5  | 323.1  | 271.7  | 235.0  | 230.1  |
| 80°   | 318.2  | 330.4  | 342.7  | 330.4  | 310.8  | 279.0  | 239.9  | 200.7  | 164.0  | 144.4  | 139.5  |
| 82.5° | 242.3  | 254.5  | 261.9  | 249.7  | 225.2  | 190.9  | 164.0  | 137.1  | 107.7  | 88.1   | 83.2   |
| 85°   | 88.1   | 100.4  | 97.9   | 117.5  | 127.3  | 122.4  | 105.2  | 80.8   | 61.2   | 44.1   | 41.6   |
| 87.5° | 24.5   | 22.0   | 24.5   | 24.5   | 24.5   | 22.0   | 19.6   | 19.6   | 19.6   | 12.2   | 9.8    |
| 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)