

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: P454257

Luminaire Tested: **GALN-SA5B-760-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-760-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28444 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

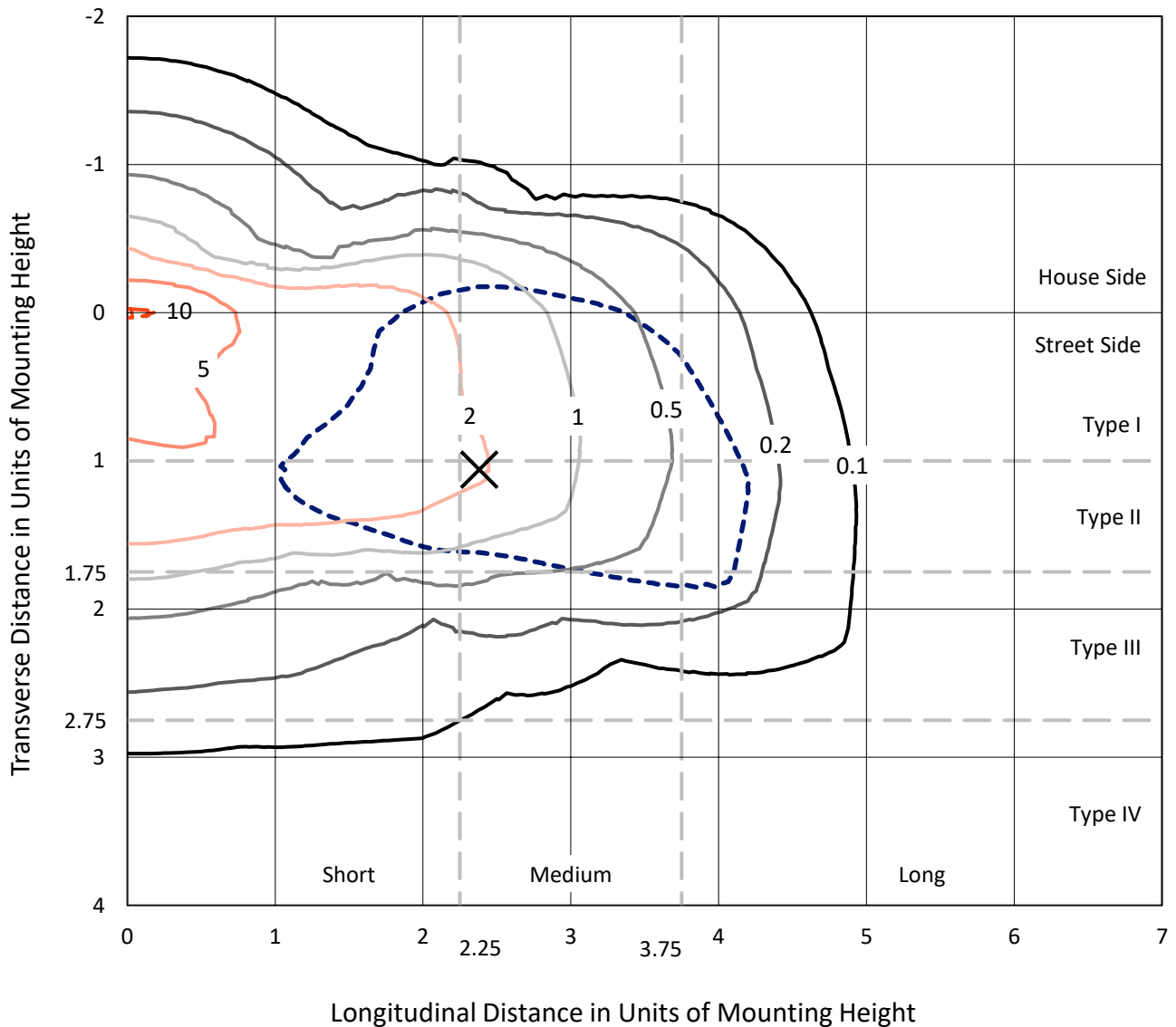
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454257  
 CATALOG NUMBER: GALN-SA5B-760-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

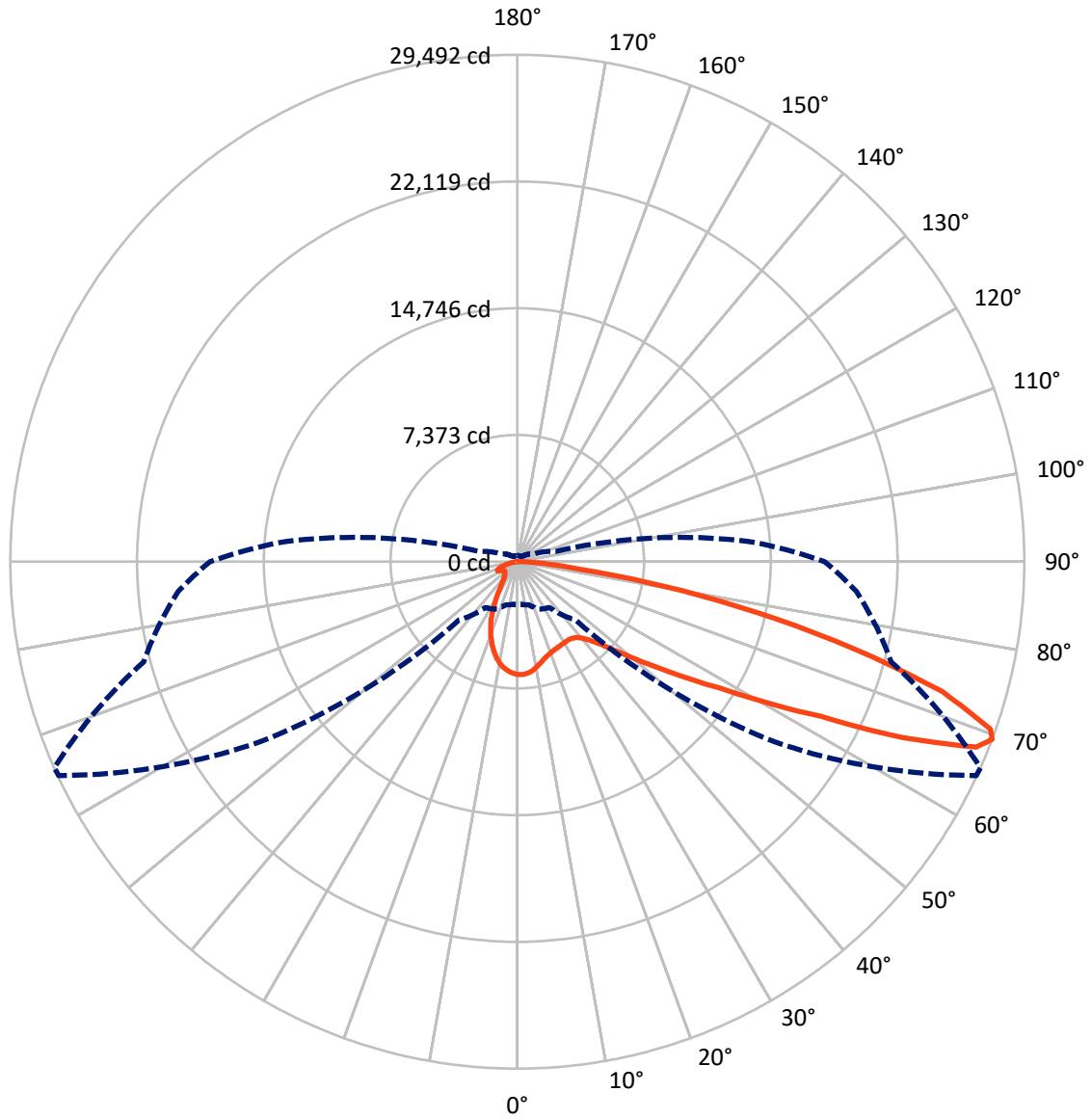
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P454257  
CATALOG NUMBER: GALN-SA5B-760-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P454257

CATALOG NUMBER: GALN-SA5B-760-U-SL2

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5349.2   | 0.0    | 5349.2  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 23094.8  | 0.0    | 23094.8 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 28444.0  | 0.0    | 28444.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 570.4   | 2.0       |
| 10°-20°   | 1352.9  | 4.8       |
| 20°-30°   | 1841.9  | 6.5       |
| 30°-40°   | 2475.1  | 8.7       |
| 40°-50°   | 3695.7  | 13.0      |
| 50°-60°   | 5878.6  | 20.7      |
| 60°-70°   | 7230.4  | 25.4      |
| 70°-80°   | 4704.4  | 16.5      |
| 80°-90°   | 694.7   | 2.4       |
| 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°    | 28444.0 | 100.0     |
| 0°-180°   | 28444.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P454257

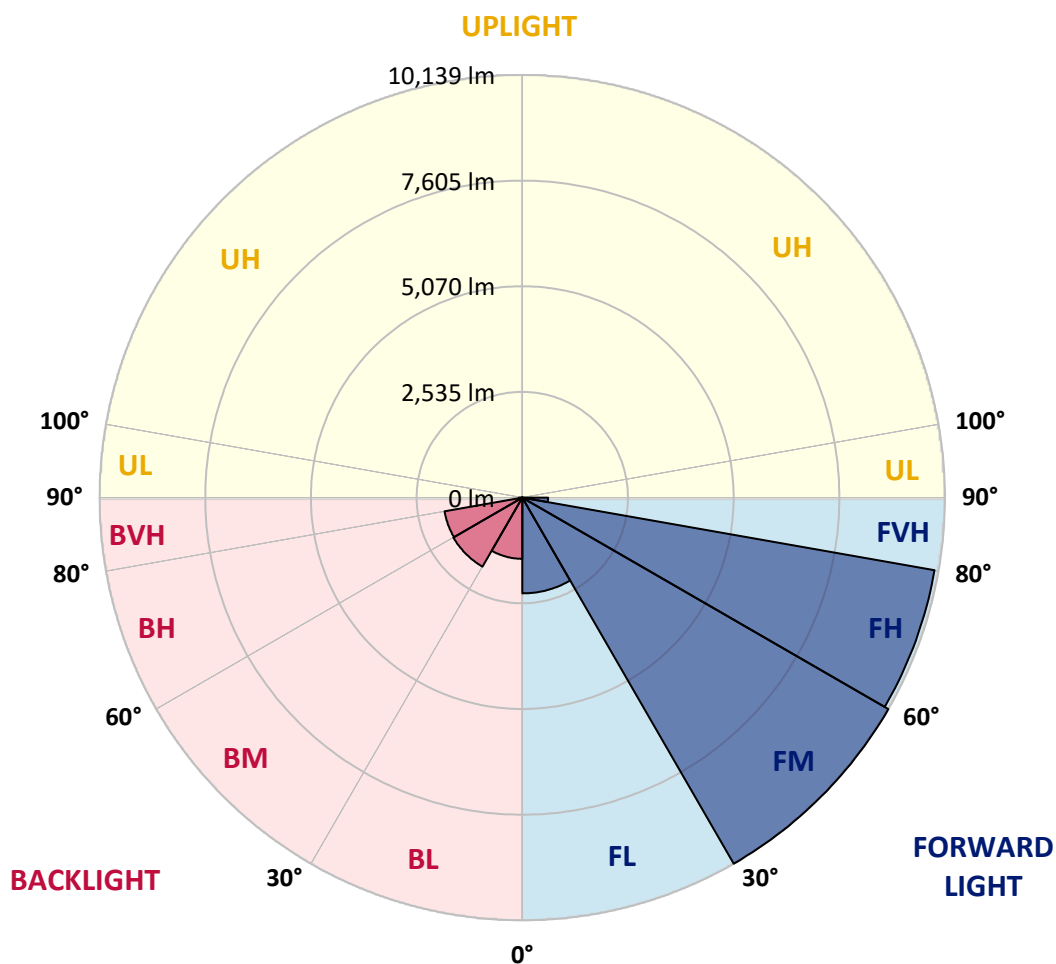
CATALOG NUMBER: GALN-SA5B-760-U-SL2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2296.8  | 8.1       |                         |      |          |
| FM   | (30°-60°)   | 10139.4 | 35.6      |                         |      |          |
| FH   | (60°-80°)   | 10040.9 | 35.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 617.6   | 2.2       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1468.4  | 5.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1909.9  | 6.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1893.9  | 6.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 77.1    | 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-G4**

Type III Medium





REPORT NUMBER: P454257  
 CATALOG NUMBER: GALN-SA5B-760-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6568.5 | 6568.5 | 6568.5 | 6568.5  | 6568.5  | 6568.5  | 6568.5  | 6568.5  | 6568.5  | 6568.5  | 6568.5  |
| 2.5°  | 6338.5 | 6363.7 | 6392.1 | 6423.6  | 6483.5  | 6516.5  | 6540.2  | 6566.9  | 6570.1  | 6584.3  | 6573.2  |
| 5°    | 5870.7 | 5900.6 | 5943.2 | 6003.0  | 6092.8  | 6233.0  | 6377.9  | 6496.1  | 6510.2  | 6576.4  | 6595.3  |
| 7.5°  | 5480.1 | 5497.4 | 5532.0 | 5628.1  | 5755.7  | 5911.7  | 6122.7  | 6362.2  | 6396.8  | 6554.3  | 6609.5  |
| 10°   | 5161.9 | 5179.2 | 5220.2 | 5319.4  | 5445.4  | 5640.7  | 5872.3  | 6187.3  | 6215.7  | 6486.6  | 6612.6  |
| 12.5° | 4924.0 | 4939.8 | 4983.9 | 5081.5  | 5226.5  | 5409.2  | 5664.4  | 5998.3  | 6039.2  | 6396.8  | 6582.7  |
| 15°   | 4742.9 | 4772.8 | 4809.0 | 4889.4  | 5042.2  | 5218.6  | 5465.9  | 5825.0  | 5858.1  | 6302.3  | 6562.2  |
| 17.5° | 4665.7 | 4679.9 | 4705.1 | 4779.1  | 4890.9  | 5064.2  | 5313.1  | 5689.6  | 5728.9  | 6236.1  | 6557.5  |
| 20°   | 4668.8 | 4683.0 | 4687.7 | 4728.7  | 4809.0  | 4958.7  | 5204.4  | 5582.4  | 5629.7  | 6177.9  | 6565.4  |
| 22.5° | 4776.0 | 4777.5 | 4760.2 | 4746.0  | 4777.5  | 4902.0  | 5127.2  | 5502.1  | 5557.2  | 6152.7  | 6571.7  |
| 25°   | 4941.3 | 4969.7 | 4944.5 | 4878.3  | 4820.1  | 4879.9  | 5097.3  | 5458.0  | 5510.0  | 6116.4  | 6563.8  |
| 27.5° | 5209.1 | 5213.9 | 5193.4 | 5103.6  | 4952.4  | 4908.3  | 5084.7  | 5424.9  | 5469.0  | 6089.7  | 6524.4  |
| 30°   | 5568.3 | 5554.1 | 5535.2 | 5436.0  | 5198.1  | 5017.0  | 5111.5  | 5395.0  | 5440.7  | 6050.3  | 6477.1  |
| 32.5° | 5932.1 | 5976.2 | 5958.9 | 5842.4  | 5533.6  | 5228.0  | 5198.1  | 5391.8  | 5429.7  | 6020.3  | 6425.2  |
| 35°   | 6318.1 | 6338.5 | 6420.4 | 6360.6  | 6044.0  | 5569.8  | 5360.3  | 5440.7  | 5470.6  | 6021.9  | 6388.9  |
| 37.5° | 6620.5 | 6675.6 | 6867.8 | 6919.8  | 6622.1  | 6021.9  | 5623.4  | 5579.3  | 5591.9  | 6099.1  | 6403.1  |
| 40°   | 6985.9 | 7080.4 | 7327.7 | 7540.4  | 7345.1  | 6609.5  | 6070.8  | 5836.1  | 5851.8  | 6285.0  | 6496.1  |
| 42.5° | 7449.0 | 7515.2 | 7847.6 | 8135.8  | 8104.3  | 7386.0  | 6612.6  | 6256.6  | 6264.5  | 6655.1  | 6756.0  |
| 45°   | 7990.9 | 8085.4 | 8458.7 | 8891.9  | 8965.9  | 8265.0  | 7395.5  | 6893.0  | 6888.3  | 7230.1  | 7241.1  |
| 47.5° | 8684.0 | 8742.3 | 9112.4 | 9585.0  | 9884.3  | 9369.2  | 8345.3  | 7806.6  | 7756.2  | 8068.1  | 7978.3  |
| 50°   | 9321.9 | 9413.3 | 9693.7 | 10210.3 | 10955.4 | 10662.4 | 9594.4  | 8991.1  | 8873.0  | 9164.4  | 9013.2  |
| 52.5° | 9589.7 | 9685.8 | 9922.1 | 10563.2 | 11873.7 | 12335.3 | 11180.6 | 10404.1 | 10207.2 | 10430.9 | 10375.7 |
| 55°   | 9125.0 | 9249.5 | 9470.0 | 10249.7 | 12277.0 | 14264.9 | 13319.7 | 12037.5 | 11894.2 | 11798.1 | 11813.9 |
| 57.5° | 7875.9 | 7994.0 | 8291.8 | 9151.8  | 11795.0 | 15665.2 | 16374.0 | 14137.3 | 13830.1 | 13387.5 | 13463.1 |
| 60°   | 5995.1 | 6069.2 | 6223.5 | 7176.5  | 10366.3 | 16029.1 | 19842.6 | 16791.4 | 16596.1 | 14970.5 | 15024.1 |
| 62.5° | 4257.7 | 4341.2 | 4448.3 | 4924.0  | 7589.2  | 15003.6 | 22558.2 | 20497.8 | 19800.0 | 16610.3 | 16558.3 |
| 65°   | 3457.5 | 3400.8 | 3530.0 | 3752.1  | 4453.0  | 11628.0 | 23169.4 | 25642.4 | 24681.5 | 18769.9 | 18048.4 |
| 67.5° | 2843.2 | 2783.3 | 2910.9 | 3306.3  | 3386.6  | 6749.7  | 20967.3 | 28981.8 | 28789.6 | 21118.5 | 19562.2 |
| 69°   | 2517.1 | 2485.6 | 2597.5 | 3048.0  | 3251.2  | 4793.3  | 18265.8 | 29446.5 | 29492.1 | 22503.1 | 19795.3 |
| 70°   | 2268.3 | 2280.9 | 2389.6 | 2917.2  | 3189.7  | 3952.1  | 15611.6 | 28805.4 | 29192.9 | 23194.6 | 19543.3 |
| 72.5° | 1669.7 | 1696.5 | 1847.7 | 2416.3  | 3131.5  | 3353.6  | 9290.4  | 25160.4 | 25845.6 | 23235.5 | 17878.3 |
| 75°   | 1167.2 | 1154.6 | 1288.5 | 1819.3  | 2958.2  | 3323.6  | 5456.4  | 19458.2 | 20234.8 | 20083.6 | 15022.5 |
| 77.5° | 764.0  | 784.4  | 891.6  | 1285.3  | 2488.8  | 3298.4  | 3556.8  | 13804.9 | 14309.0 | 13431.6 | 8885.6  |
| 80°   | 538.7  | 537.1  | 597.0  | 877.4   | 1846.1  | 3169.3  | 2912.5  | 8701.3  | 8573.7  | 5278.4  | 2635.3  |
| 82.5° | 308.7  | 330.8  | 400.1  | 617.5   | 1234.9  | 2789.6  | 2679.4  | 4161.6  | 3799.3  | 1504.3  | 890.0   |
| 85°   | 171.7  | 179.6  | 237.9  | 373.3   | 721.4   | 2101.3  | 2339.1  | 1893.4  | 1786.3  | 628.5   | 382.8   |
| 87.5° | 55.1   | 59.9   | 99.2   | 189.0   | 327.6   | 992.4   | 1324.7  | 874.2   | 806.5   | 226.8   | 154.4   |
| 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: P454257  
 CATALOG NUMBER: GALN-SA5B-760-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6568.5  | 6568.5  | 6568.5 | 6568.5 | 6568.5 | 6568.5 | 6568.5 | 6568.5 | 6568.5 | 6568.5 | 6568.5 |
| 2.5°  | 6578.0  | 6596.9  | 6546.5 | 6497.6 | 6453.5 | 6392.1 | 6337.0 | 6291.3 | 6259.8 | 6255.0 | 6239.3 |
| 5°    | 6600.0  | 6601.6  | 6505.5 | 6376.3 | 6250.3 | 6111.7 | 5968.4 | 5866.0 | 5769.9 | 5716.3 | 5689.6 |
| 7.5°  | 6615.8  | 6601.6  | 6428.3 | 6218.8 | 5976.2 | 5724.2 | 5472.2 | 5270.6 | 5114.6 | 5053.2 | 5076.8 |
| 10°   | 6609.5  | 6565.4  | 6311.8 | 5976.2 | 5623.4 | 5246.9 | 4884.6 | 4601.1 | 4341.2 | 4207.3 | 4210.5 |
| 12.5° | 6574.8  | 6502.4  | 6138.5 | 5703.7 | 5185.5 | 4681.4 | 4127.0 | 3744.2 | 3443.3 | 3265.4 | 3210.2 |
| 15°   | 6544.9  | 6418.9  | 5935.3 | 5333.6 | 4689.3 | 3969.5 | 3293.7 | 2821.2 | 2569.1 | 2428.9 | 2427.4 |
| 17.5° | 6513.4  | 6338.5  | 5713.2 | 4941.3 | 4119.1 | 3192.9 | 2484.1 | 2123.3 | 2005.2 | 2019.4 | 1995.8 |
| 20°   | 6480.3  | 6244.0  | 5481.6 | 4505.0 | 3424.4 | 2381.7 | 1860.3 | 1713.8 | 1746.9 | 1811.5 | 1820.9 |
| 22.5° | 6442.5  | 6143.2  | 5232.8 | 4024.6 | 2693.6 | 1792.6 | 1509.0 | 1487.0 | 1572.0 | 1672.8 | 1687.0 |
| 25°   | 6384.2  | 6017.2  | 4919.3 | 3522.1 | 2077.7 | 1444.4 | 1321.6 | 1337.3 | 1420.8 | 1505.9 | 1515.3 |
| 27.5° | 6302.3  | 5861.3  | 4602.7 | 2895.2 | 1561.0 | 1239.7 | 1208.2 | 1228.6 | 1269.6 | 1321.6 | 1334.2 |
| 30°   | 6192.0  | 5684.8  | 4238.8 | 2353.3 | 1250.7 | 1137.3 | 1124.7 | 1135.7 | 1159.3 | 1181.4 | 1187.7 |
| 32.5° | 6081.8  | 5514.7  | 3871.8 | 1802.0 | 1115.2 | 1069.5 | 1056.9 | 1056.9 | 1056.9 | 1060.1 | 1061.7 |
| 35°   | 5979.4  | 5354.0  | 3478.0 | 1403.5 | 1044.3 | 1016.0 | 998.7  | 979.8  | 976.6  | 965.6  | 965.6  |
| 37.5° | 5922.7  | 5207.6  | 3059.0 | 1175.1 | 992.4  | 971.9  | 948.3  | 916.8  | 899.4  | 901.0  | 897.9  |
| 40°   | 5933.7  | 5111.5  | 2677.8 | 1045.9 | 949.8  | 927.8  | 891.6  | 855.3  | 844.3  | 844.3  | 841.1  |
| 42.5° | 6058.2  | 5080.0  | 2312.4 | 978.2  | 908.9  | 883.7  | 838.0  | 804.9  | 798.6  | 797.0  | 800.2  |
| 45°   | 6344.8  | 5157.1  | 1984.7 | 934.1  | 874.2  | 836.4  | 790.7  | 760.8  | 754.5  | 754.5  | 752.9  |
| 47.5° | 6904.0  | 5407.6  | 1750.0 | 905.7  | 849.0  | 800.2  | 752.9  | 723.0  | 712.0  | 708.8  | 708.8  |
| 50°   | 7773.5  | 5951.0  | 1575.2 | 880.5  | 817.5  | 767.1  | 718.3  | 683.6  | 666.3  | 664.7  | 663.2  |
| 52.5° | 8981.7  | 6798.5  | 1507.4 | 861.6  | 782.9  | 732.5  | 678.9  | 645.8  | 623.8  | 619.0  | 615.9  |
| 55°   | 10394.6 | 7981.4  | 1600.4 | 847.4  | 746.6  | 693.1  | 637.9  | 603.3  | 582.8  | 573.4  | 571.8  |
| 57.5° | 12031.2 | 9402.3  | 1953.2 | 828.5  | 713.6  | 650.6  | 597.0  | 562.3  | 540.3  | 529.3  | 526.1  |
| 60°   | 13500.9 | 10862.5 | 2569.1 | 817.5  | 685.2  | 604.9  | 549.7  | 518.2  | 497.8  | 486.7  | 485.2  |
| 62.5° | 15115.4 | 12254.9 | 3304.7 | 847.4  | 672.6  | 560.8  | 505.6  | 477.3  | 460.0  | 448.9  | 448.9  |
| 65°   | 16840.3 | 13649.0 | 3791.5 | 948.3  | 691.5  | 526.1  | 458.4  | 434.8  | 419.0  | 411.1  | 409.5  |
| 67.5° | 18002.8 | 14131.0 | 3123.6 | 1052.2 | 738.8  | 488.3  | 412.7  | 393.8  | 384.3  | 376.5  | 376.5  |
| 69°   | 17876.7 | 13521.4 | 2304.5 | 1079.0 | 752.9  | 469.4  | 387.5  | 373.3  | 360.7  | 357.6  | 354.4  |
| 70°   | 17478.2 | 12826.7 | 1931.2 | 1061.7 | 741.9  | 452.1  | 371.7  | 354.4  | 343.4  | 340.2  | 338.7  |
| 72.5° | 15567.5 | 11123.9 | 1438.1 | 923.1  | 631.6  | 392.2  | 329.2  | 313.5  | 304.0  | 299.3  | 299.3  |
| 75°   | 12933.8 | 9092.0  | 1123.1 | 734.0  | 494.6  | 330.8  | 282.0  | 269.4  | 261.5  | 258.3  | 256.8  |
| 77.5° | 7249.0  | 5076.8  | 806.5  | 574.9  | 374.9  | 267.8  | 236.3  | 225.3  | 217.4  | 214.2  | 214.2  |
| 80°   | 2019.4  | 1450.7  | 474.1  | 379.6  | 255.2  | 203.2  | 187.4  | 179.6  | 168.5  | 160.7  | 165.4  |
| 82.5° | 760.8   | 628.5   | 270.9  | 228.4  | 162.2  | 135.5  | 130.7  | 124.4  | 119.7  | 108.7  | 108.7  |
| 85°   | 370.2   | 305.6   | 173.3  | 121.3  | 89.8   | 70.9   | 67.7   | 64.6   | 61.4   | 53.6   | 55.1   |
| 87.5° | 127.6   | 135.5   | 75.6   | 44.1   | 26.8   | 17.3   | 14.2   | 7.9    | 7.9    | 7.9    | 7.9    |
| 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)