

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: P534167

Luminaire Tested: **GALN-SA9C-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27638 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

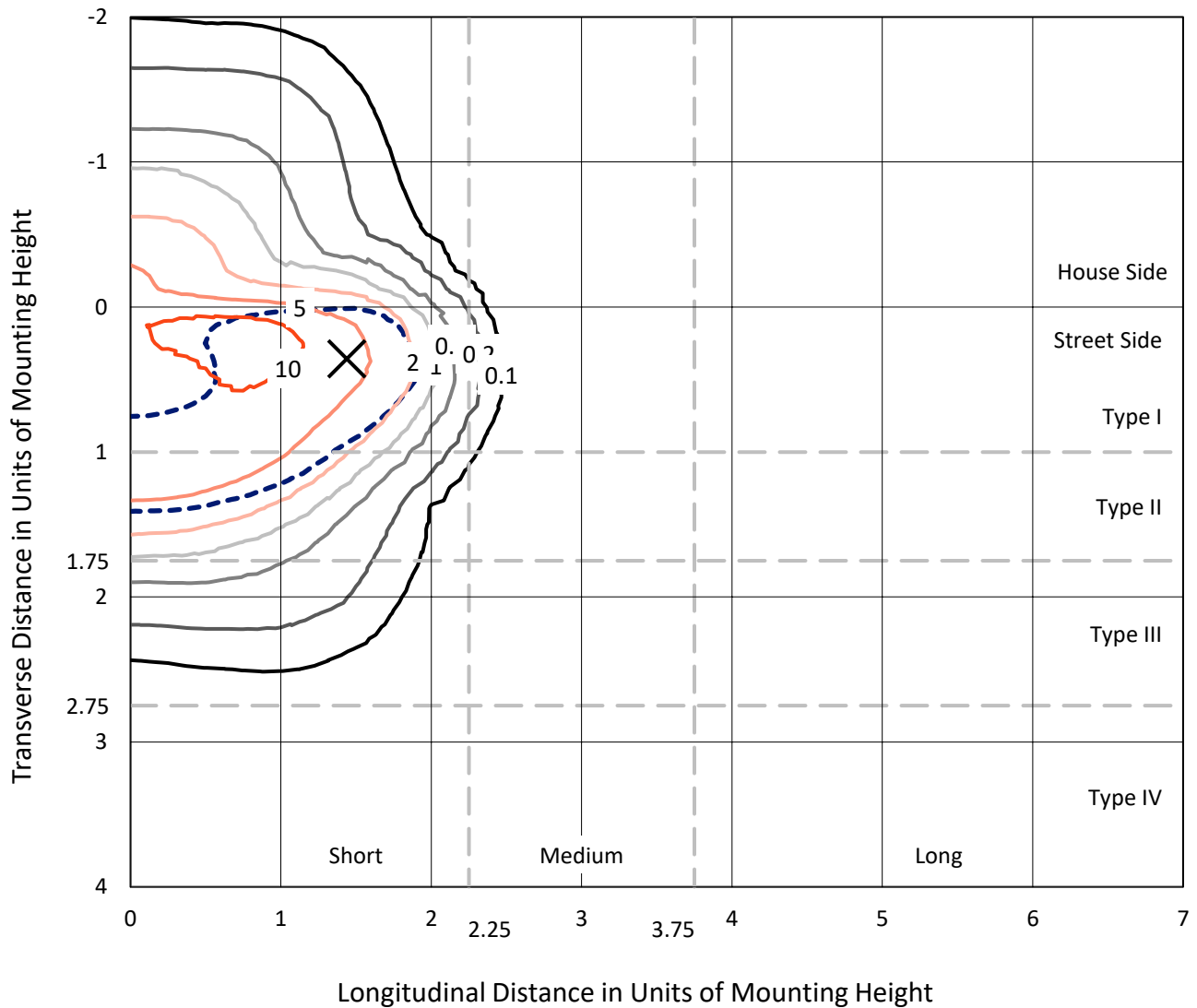
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P534167  
 CATALOG NUMBER: GALN-SA9C-827-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

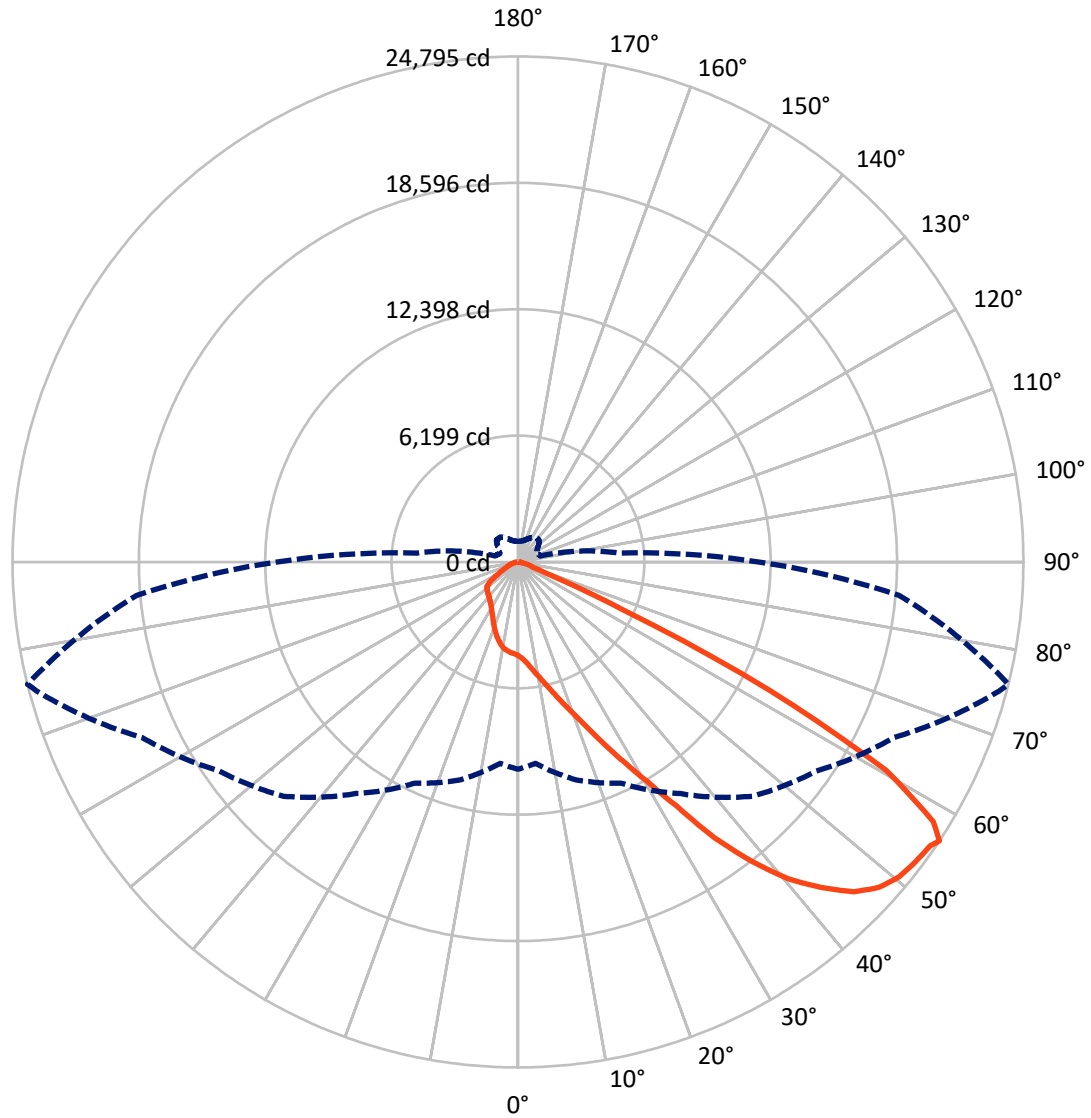
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P534167  
CATALOG NUMBER: GALN-SA9C-827-U-T2-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P534167  
 CATALOG NUMBER: GALN-SA9C-827-U-T2-GRSBK

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4341.8   | 0.0    | 4341.8  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 23296.2  | 0.0    | 23296.2 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 27638.0  | 0.0    | 27638.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 463.4   | 1.7       |
| 10°-20°   | 1488.8  | 5.4       |
| 20°-30°   | 2699.6  | 9.8       |
| 30°-40°   | 4655.6  | 16.8      |
| 40°-50°   | 7563.2  | 27.4      |
| 50°-60°   | 7971.9  | 28.8      |
| 60°-70°   | 2435.7  | 8.8       |
| 70°-80°   | 312.2   | 1.1       |
| 80°-90°   | 47.5    | 0.2       |
| 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°    | 27638.0 | 100.0     |
| 0°-180°   | 27638.0 | 100.0     |

**Coefficient of Utilization**



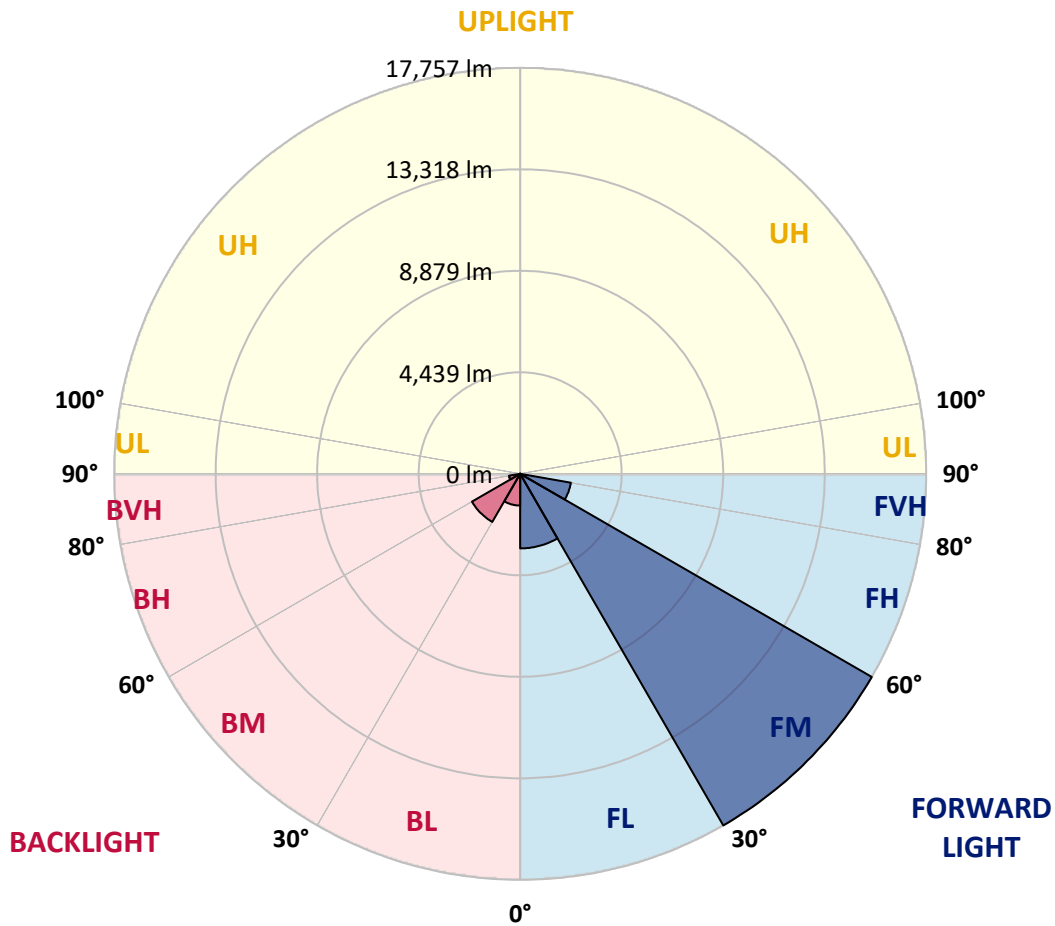
REPORT NUMBER: P534167  
 CATALOG NUMBER: GALN-SA9C-827-U-T2-GRSBK

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3262.9  | 11.8      |                         |      |         |
| FM (30°-60°)   | 17757.4 | 64.2      |                         |      |         |
| FH (60°-80°)   | 2252.7  | 8.2       |                         |      | G2/5000 |
| FVH (80°-90°)  | 23.3    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1388.9  | 5.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2433.3  | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 495.3   | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.2    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P534167

CATALOG NUMBER: GALN-SA9C-827-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  | 4600.4  |
| 2.5°  | 5298.3  | 5176.1  | 5181.2  | 5171.0  | 5155.7  | 5099.7  | 4931.5  | 4906.1  | 4794.0  | 4763.4  | 4661.5  |
| 5°    | 5935.2  | 5828.2  | 5889.3  | 5797.6  | 5711.0  | 5660.1  | 5384.9  | 5257.6  | 5079.3  | 5013.0  | 4870.4  |
| 7.5°  | 6332.5  | 6281.6  | 6261.2  | 6266.3  | 6184.8  | 6057.4  | 5935.2  | 5655.0  | 5415.5  | 5364.6  | 5064.0  |
| 10°   | 6526.1  | 6495.6  | 6526.1  | 6510.8  | 6546.5  | 6561.8  | 6347.8  | 6179.7  | 5828.2  | 5741.6  | 5272.9  |
| 12.5° | 6572.0  | 6633.1  | 6658.6  | 6724.8  | 6811.4  | 6959.2  | 6943.9  | 6714.6  | 6245.9  | 6189.9  | 5593.8  |
| 15°   | 6684.1  | 6735.0  | 6709.5  | 6816.5  | 6979.5  | 7229.2  | 7361.6  | 7326.0  | 6821.6  | 6719.7  | 5965.7  |
| 17.5° | 6786.0  | 6694.3  | 6780.9  | 6994.8  | 7157.9  | 7539.9  | 7860.9  | 8008.6  | 7448.2  | 7331.1  | 6307.1  |
| 20°   | 6923.5  | 6898.0  | 6882.7  | 6989.7  | 7280.1  | 7789.6  | 8426.4  | 8696.4  | 8151.3  | 8029.0  | 6796.1  |
| 22.5° | 7341.3  | 7346.4  | 7336.2  | 7178.2  | 7387.1  | 7962.8  | 8920.6  | 9588.0  | 8991.9  | 8890.0  | 7351.4  |
| 25°   | 7891.5  | 7825.2  | 7774.3  | 7646.9  | 7621.5  | 8120.7  | 9419.8  | 10678.2 | 10000.6 | 9929.3  | 7952.6  |
| 27.5° | 8472.3  | 8472.3  | 8319.4  | 8202.2  | 8039.2  | 8513.0  | 9878.3  | 11737.9 | 11218.2 | 11121.4 | 8477.3  |
| 30°   | 9104.0  | 9139.6  | 9119.3  | 8869.6  | 8767.7  | 8941.0  | 10347.0 | 13093.0 | 12614.1 | 12491.9 | 9343.4  |
| 32.5° | 10036.3 | 9959.9  | 10046.5 | 9837.6  | 9537.0  | 9689.9  | 11085.8 | 14305.5 | 14427.8 | 14254.6 | 10479.5 |
| 35°   | 11269.2 | 11223.3 | 11167.3 | 10825.9 | 10469.3 | 10591.6 | 12130.1 | 15798.2 | 16705.1 | 16618.5 | 11625.8 |
| 37.5° | 12374.7 | 12349.2 | 12303.4 | 12069.0 | 11656.4 | 11804.1 | 13317.2 | 17352.1 | 18926.3 | 18641.0 | 13245.9 |
| 40°   | 13536.2 | 13673.8 | 13526.1 | 13317.2 | 12940.2 | 13266.2 | 14713.1 | 18274.2 | 20796.0 | 20449.6 | 14483.8 |
| 42.5° | 15110.5 | 15003.5 | 15069.7 | 14687.6 | 14483.8 | 14840.4 | 16114.1 | 19196.3 | 22247.9 | 21835.3 | 15798.2 |
| 45°   | 16786.6 | 16791.7 | 16613.4 | 16491.1 | 15961.3 | 16348.4 | 16975.1 | 19705.8 | 23404.4 | 23083.4 | 16791.7 |
| 47.5° | 17861.5 | 17856.4 | 18050.0 | 18243.6 | 17698.5 | 17316.4 | 17560.9 | 20189.7 | 24000.5 | 23852.7 | 17153.4 |
| 50°   | 17693.4 | 17744.3 | 17994.0 | 18717.4 | 19002.7 | 18488.2 | 18111.2 | 20047.1 | 24270.5 | 24255.2 | 17464.1 |
| 52.5° | 15390.7 | 15558.8 | 15976.5 | 17020.9 | 18457.6 | 19094.4 | 18686.8 | 20312.0 | 24402.9 | 24428.4 | 17927.8 |
| 55°   | 11717.5 | 11809.2 | 12603.9 | 13872.5 | 15462.0 | 17642.5 | 18457.6 | 20520.9 | 24504.8 | 24550.7 | 18488.2 |
| 56°   | 10163.6 | 9919.1  | 11065.4 | 11967.1 | 13867.4 | 16251.6 | 17876.8 | 20357.9 | 24443.7 | 24795.2 | 18768.4 |
| 57.5° | 7672.4  | 7509.4  | 8436.6  | 9562.5  | 11391.4 | 13908.1 | 16073.3 | 19588.6 | 24031.0 | 24025.9 | 18365.9 |
| 60°   | 4666.6  | 4503.6  | 5216.8  | 5879.1  | 6903.1  | 8564.0  | 10861.6 | 15599.5 | 20317.1 | 20745.0 | 14871.0 |
| 62.5° | 2776.5  | 2878.4  | 3581.5  | 3983.9  | 4315.1  | 4488.3  | 5619.3  | 9272.1  | 13556.6 | 13862.3 | 9226.2  |
| 65°   | 1849.3  | 1885.0  | 2414.8  | 3077.1  | 3224.9  | 2567.7  | 2287.5  | 3754.7  | 5879.1  | 5690.6  | 3805.6  |
| 67.5° | 1141.2  | 1222.7  | 1620.1  | 2312.9  | 2562.6  | 1874.8  | 1085.1  | 1401.0  | 1620.1  | 1620.1  | 1100.4  |
| 70°   | 692.9   | 733.6   | 1080.0  | 1574.2  | 1757.6  | 1207.4  | 789.7   | 789.7   | 779.5   | 764.2   | 657.2   |
| 72.5° | 331.1   | 356.6   | 550.2   | 810.0   | 825.3   | 636.8   | 611.3   | 667.4   | 652.1   | 647.0   | 545.1   |
| 75°   | 142.6   | 152.8   | 193.6   | 254.7   | 290.4   | 270.0   | 371.9   | 478.9   | 494.2   | 478.9   | 392.3   |
| 77.5° | 45.9    | 50.9    | 71.3    | 91.7    | 96.8    | 117.2   | 157.9   | 198.7   | 229.3   | 214.0   | 193.6   |
| 80°   | 5.1     | 10.2    | 20.4    | 45.9    | 71.3    | 91.7    | 117.2   | 132.5   | 147.7   | 147.7   | 137.6   |
| 82.5° | 5.1     | 5.1     | 20.4    | 40.8    | 66.2    | 86.6    | 112.1   | 127.4   | 147.7   | 152.8   | 142.6   |
| 85°   | 0.0     | 5.1     | 15.3    | 35.7    | 56.0    | 56.0    | 50.9    | 50.9    | 35.7    | 35.7    | 35.7    |
| 87.5° | 0.0     | 0.0     | 5.1     | 5.1     | 5.1     | 10.2    | 10.2    | 10.2    | 10.2    | 10.2    | 10.2    |
| 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: P534167

CATALOG NUMBER: GALN-SA9C-827-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4600.4  | 4600.4 | 4600.4 | 4600.4 | 4600.4 | 4600.4 | 4600.4 | 4600.4 | 4600.4 | 4600.4 | 4600.4 |
| 2.5°  | 4641.1  | 4631.0 | 4493.4 | 4406.8 | 4360.9 | 4269.2 | 4213.2 | 4172.4 | 4141.9 | 4106.2 | 4111.3 |
| 5°    | 4702.3  | 4666.6 | 4437.4 | 4279.4 | 4090.9 | 3989.0 | 3902.4 | 3831.1 | 3785.3 | 3775.1 | 3754.7 |
| 7.5°  | 4875.5  | 4687.0 | 4340.6 | 4055.3 | 3815.8 | 3713.9 | 3637.5 | 3591.7 | 3612.0 | 3566.2 | 3601.9 |
| 10°   | 5008.0  | 4727.8 | 4223.4 | 3810.7 | 3571.3 | 3494.9 | 3454.1 | 3489.8 | 3540.7 | 3520.3 | 3494.9 |
| 12.5° | 5171.0  | 4768.5 | 4034.9 | 3576.4 | 3352.2 | 3296.2 | 3367.5 | 3433.7 | 3535.6 | 3576.4 | 3525.4 |
| 15°   | 5354.4  | 4814.4 | 3795.4 | 3306.4 | 3163.7 | 3209.6 | 3331.8 | 3449.0 | 3550.9 | 3601.9 | 3632.4 |
| 17.5° | 5578.5  | 4799.1 | 3561.1 | 3092.4 | 2985.4 | 3117.9 | 3265.6 | 3372.6 | 3525.4 | 3601.9 | 3581.5 |
| 20°   | 5787.4  | 4748.1 | 3301.3 | 2878.4 | 2883.5 | 3005.8 | 3128.1 | 3301.3 | 3382.8 | 3484.7 | 3449.0 |
| 22.5° | 5986.1  | 4656.4 | 3031.3 | 2730.7 | 2730.7 | 2919.2 | 2980.3 | 3092.4 | 3163.7 | 3214.7 | 3209.6 |
| 25°   | 6266.3  | 4483.2 | 2807.1 | 2588.0 | 2649.2 | 2771.4 | 2822.4 | 2858.0 | 2827.5 | 2868.2 | 2873.3 |
| 27.5° | 6465.0  | 4304.9 | 2623.7 | 2460.7 | 2572.8 | 2664.5 | 2649.2 | 2628.8 | 2557.5 | 2501.4 | 2537.1 |
| 30°   | 6679.0  | 4096.0 | 2465.8 | 2374.1 | 2435.2 | 2516.7 | 2455.6 | 2394.4 | 2282.4 | 2190.7 | 2195.8 |
| 32.5° | 6984.6  | 3999.2 | 2328.2 | 2272.2 | 2353.7 | 2363.9 | 2297.6 | 2205.9 | 2093.9 | 2007.3 | 2002.2 |
| 35°   | 7555.2  | 3938.1 | 2211.0 | 2205.9 | 2221.2 | 2226.3 | 2160.1 | 2048.0 | 2002.2 | 1930.8 | 1956.3 |
| 37.5° | 8125.8  | 3907.5 | 2129.5 | 2109.1 | 2104.1 | 2109.1 | 2032.7 | 1925.7 | 2012.4 | 2007.3 | 2017.4 |
| 40°   | 8854.3  | 4045.1 | 2012.4 | 1986.9 | 1992.0 | 1992.0 | 1895.2 | 1864.6 | 2017.4 | 2032.7 | 2037.8 |
| 42.5° | 9593.1  | 4218.3 | 1935.9 | 1854.4 | 1874.8 | 1874.8 | 1823.9 | 1788.2 | 1895.2 | 1793.3 | 1778.0 |
| 45°   | 10235.0 | 4473.0 | 1854.4 | 1722.0 | 1772.9 | 1798.4 | 1783.1 | 1722.0 | 1655.7 | 1482.5 | 1482.5 |
| 47.5° | 10443.8 | 4697.2 | 1757.6 | 1594.6 | 1635.4 | 1747.4 | 1701.6 | 1574.2 | 1457.0 | 1314.4 | 1304.2 |
| 50°   | 10810.7 | 4941.7 | 1681.2 | 1446.9 | 1533.5 | 1671.0 | 1625.2 | 1497.8 | 1365.3 | 1263.5 | 1268.5 |
| 52.5° | 11187.7 | 5221.9 | 1538.6 | 1273.6 | 1380.6 | 1609.9 | 1609.9 | 1467.2 | 1263.5 | 1192.1 | 1181.9 |
| 55°   | 11753.1 | 5211.7 | 1283.8 | 1044.4 | 1232.9 | 1518.2 | 1543.7 | 1314.4 | 1131.0 | 1075.0 | 1075.0 |
| 56°   | 11834.7 | 4977.4 | 1156.5 | 978.2  | 1166.7 | 1492.7 | 1497.8 | 1273.6 | 1080.0 | 1018.9 | 1018.9 |
| 57.5° | 11223.3 | 4493.4 | 1013.8 | 896.6  | 1085.1 | 1446.9 | 1451.9 | 1238.0 | 1039.3 | 952.7  | 942.5  |
| 60°   | 8635.3  | 3041.5 | 845.7  | 799.8  | 983.2  | 1304.2 | 1329.7 | 1125.9 | 911.9  | 845.7  | 840.6  |
| 62.5° | 4875.5  | 1686.3 | 743.8  | 723.4  | 845.7  | 1110.6 | 1187.0 | 983.2  | 774.4  | 738.7  | 748.9  |
| 65°   | 2226.3  | 927.2  | 626.6  | 585.9  | 682.7  | 855.9  | 957.8  | 810.0  | 636.8  | 596.1  | 596.1  |
| 67.5° | 815.1   | 631.7  | 534.9  | 463.6  | 478.9  | 555.3  | 621.5  | 524.7  | 422.8  | 361.7  | 377.0  |
| 70°   | 580.8   | 529.8  | 468.7  | 402.5  | 371.9  | 361.7  | 356.6  | 295.5  | 208.9  | 163.0  | 173.2  |
| 72.5° | 468.7   | 438.1  | 392.3  | 341.3  | 290.4  | 244.5  | 208.9  | 152.8  | 96.8   | 66.2   | 61.1   |
| 75°   | 336.2   | 321.0  | 285.3  | 244.5  | 203.8  | 173.2  | 142.6  | 96.8   | 50.9   | 25.5   | 25.5   |
| 77.5° | 173.2   | 173.2  | 168.1  | 152.8  | 127.4  | 101.9  | 81.5   | 56.0   | 30.6   | 10.2   | 10.2   |
| 80°   | 132.5   | 142.6  | 147.7  | 132.5  | 117.2  | 91.7   | 66.2   | 40.8   | 20.4   | 5.1    | 5.1    |
| 82.5° | 127.4   | 147.7  | 157.9  | 137.6  | 117.2  | 86.6   | 66.2   | 40.8   | 20.4   | 5.1    | 5.1    |
| 85°   | 30.6    | 30.6   | 45.9   | 50.9   | 66.2   | 71.3   | 56.0   | 35.7   | 15.3   | 5.1    | 5.1    |
| 87.5° | 10.2    | 10.2   | 10.2   | 10.2   | 10.2   | 10.2   | 5.1    | 5.1    | 5.1    | 5.1    | 0.0    |
| 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)