

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: P646822

Luminaire Tested: **GALN-SA3C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12258.6 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

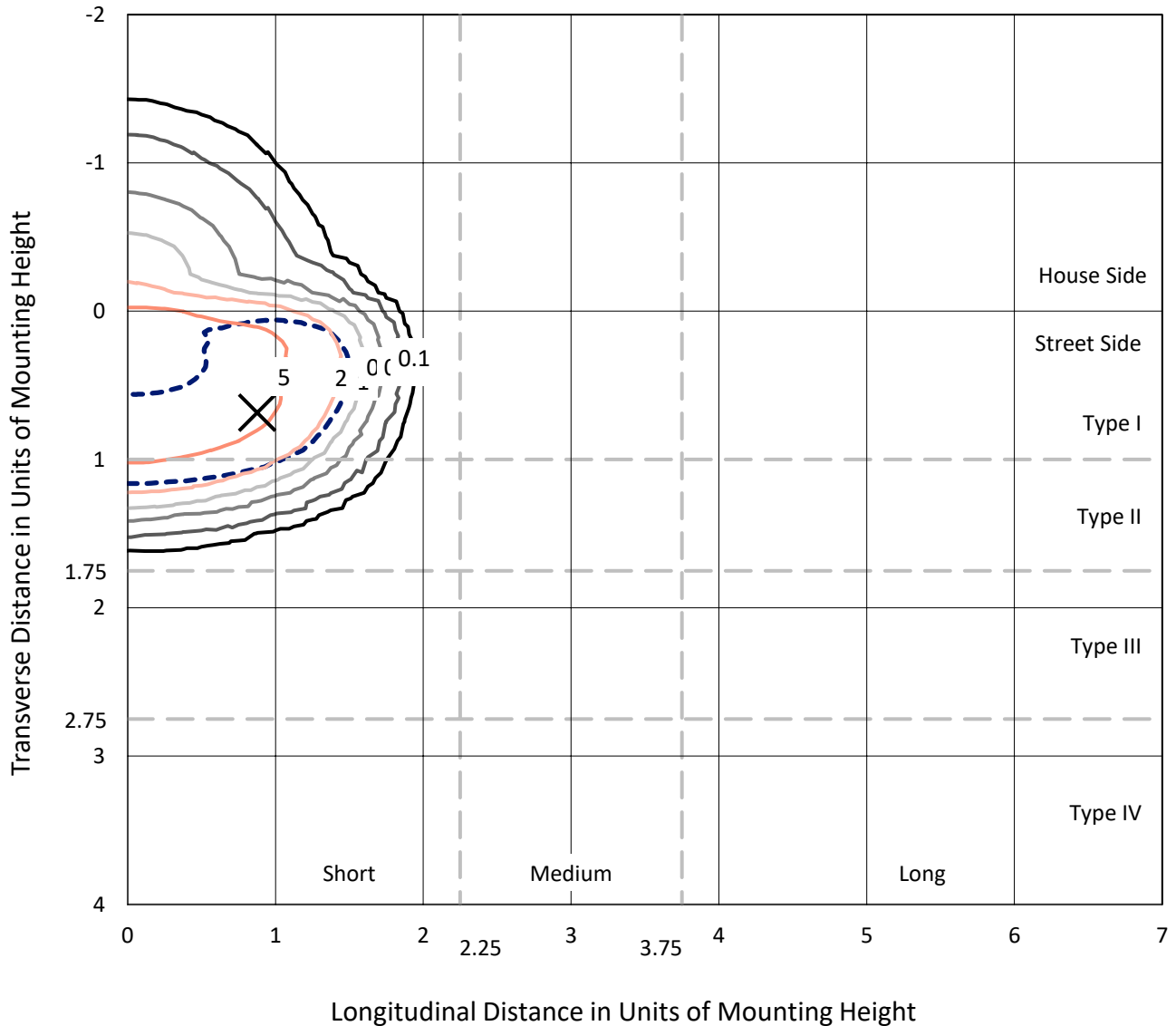
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646822  
 CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

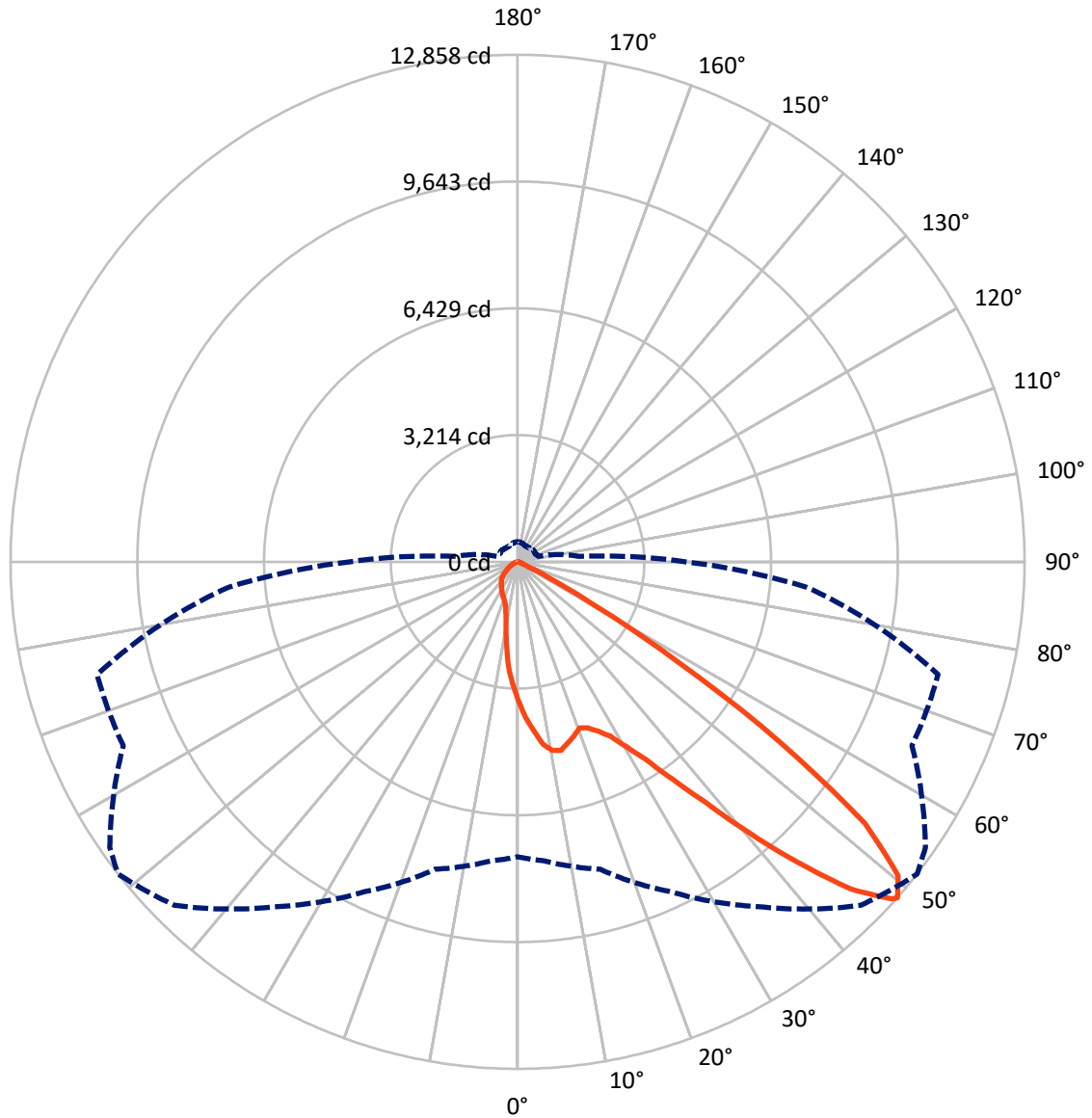
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P646822  
CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P646822  
 CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSBK

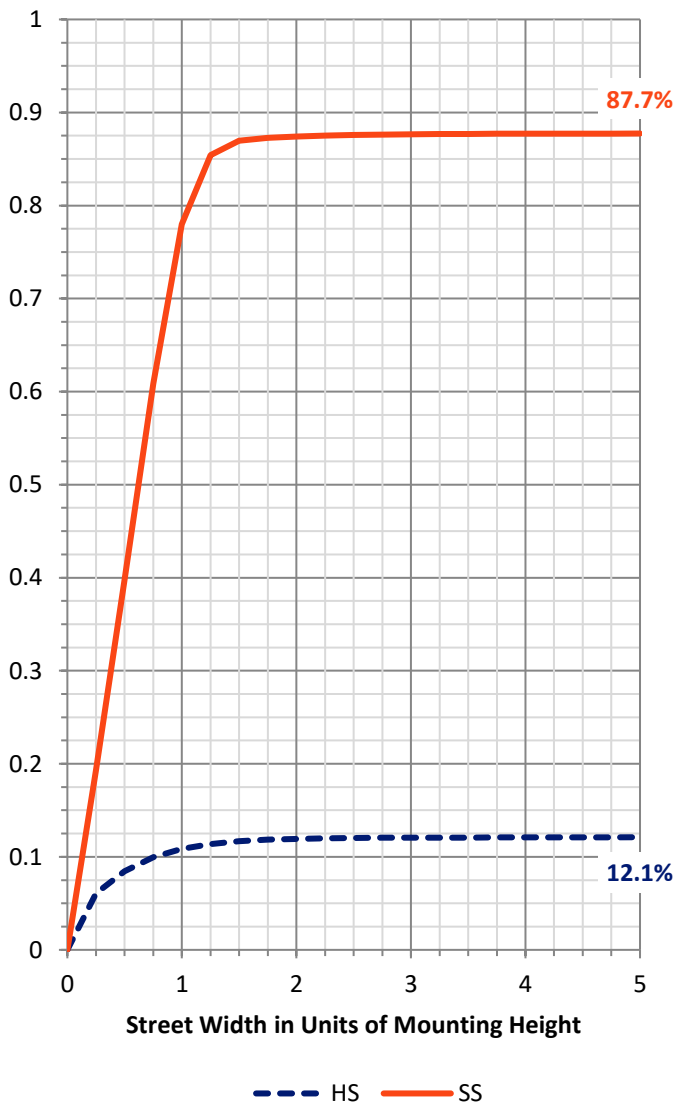
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1492.6   | 0.0    | 1492.6  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 10766.1  | 0.0    | 10766.1 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 12258.6  | 0.0    | 12258.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 324.0   | 2.6       |
| 10°-20°   | 846.8   | 6.9       |
| 20°-30°   | 1445.8  | 11.8      |
| 30°-40°   | 2662.4  | 21.7      |
| 40°-50°   | 4134.8  | 33.7      |
| 50°-60°   | 2488.4  | 20.3      |
| 60°-70°   | 287.8   | 2.3       |
| 70°-80°   | 55.7    | 0.5       |
| 80°-90°   | 12.9    | 0.1       |
| 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°    | 12258.6 | 100.0     |
| 0°-180°   | 12258.6 | 100.0     |

**Coefficient of Utilization**

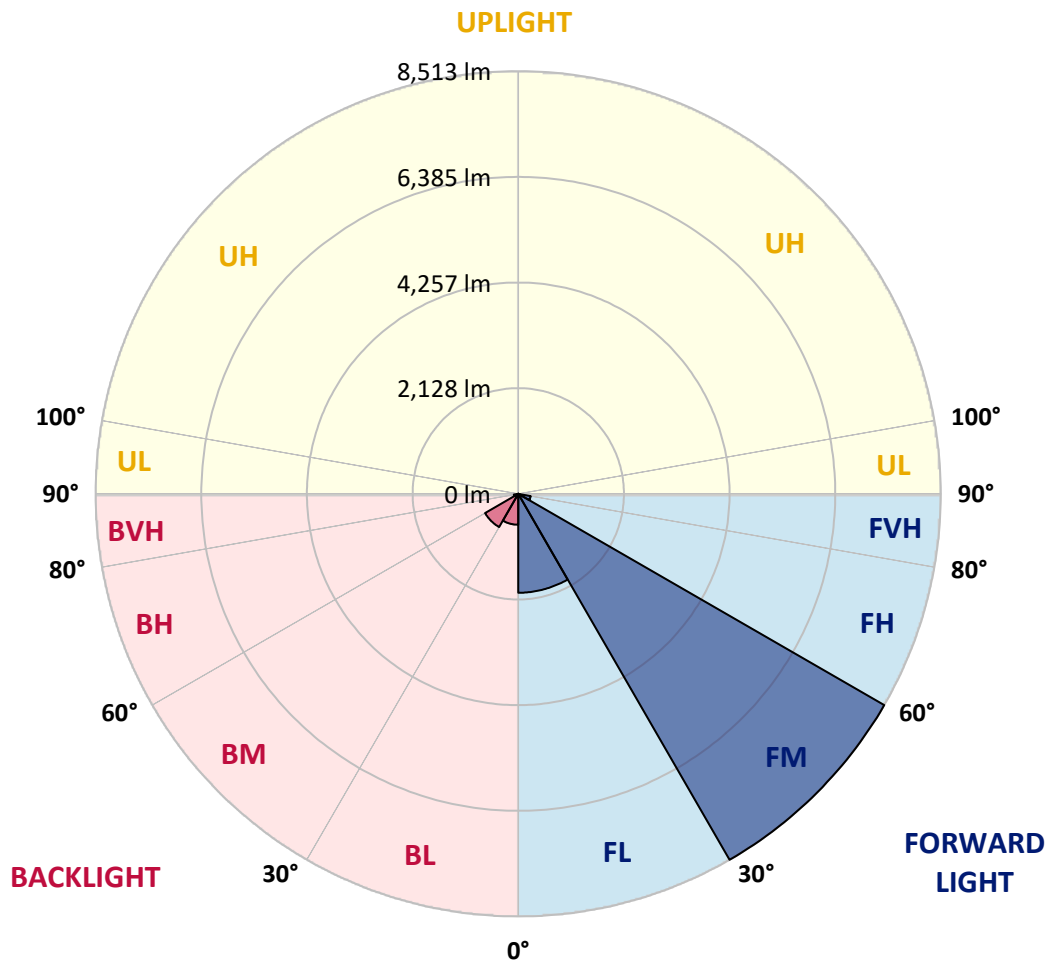


REPORT NUMBER: P646822  
 CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSBK

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1993.1 | 16.3      |                         |      |        |
| FM (30°-60°)   | 8513.4 | 69.4      |                         |      |        |
| FH (60°-80°)   | 253.4  | 2.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 6.1    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 623.5  | 5.1       | B2/1000                 |      |        |
| BM (30°-60°)   | 772.2  | 6.3       | B1/1000                 |      |        |
| BH (60°-80°)   | 90.1   | 0.7       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 6.7    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**  
 Type II Short





REPORT NUMBER: P646822

CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1  | 3540.1 |
| 2.5°  | 4290.6  | 4192.3  | 4201.3  | 4137.0  | 4099.4  | 4038.6  | 3956.5  | 3940.4  | 3851.0  | 3729.5  | 3606.2 |
| 5°    | 4676.6  | 4653.4  | 4683.8  | 4590.9  | 4594.4  | 4494.3  | 4301.3  | 4304.9  | 4099.4  | 3901.1  | 3709.9 |
| 7.5°  | 4701.7  | 4648.0  | 4678.4  | 4760.6  | 4808.9  | 4791.0  | 4682.0  | 4587.3  | 4392.5  | 4101.2  | 3822.4 |
| 10°   | 4210.2  | 4312.1  | 4344.2  | 4480.1  | 4673.1  | 4876.8  | 4864.3  | 4869.6  | 4707.0  | 4326.4  | 3918.9 |
| 12.5° | 3915.4  | 3847.4  | 3956.5  | 4038.6  | 4330.0  | 4724.9  | 4905.4  | 4944.7  | 4957.2  | 4544.4  | 4015.5 |
| 15°   | 3781.3  | 3781.3  | 3799.2  | 3822.4  | 4033.3  | 4397.9  | 4766.0  | 4880.4  | 5150.2  | 4830.3  | 4167.4 |
| 17.5° | 3865.4  | 3861.8  | 3886.8  | 3838.5  | 3917.2  | 4197.7  | 4637.3  | 4767.8  | 5366.4  | 5110.9  | 4287.1 |
| 20°   | 4120.9  | 4133.4  | 4117.3  | 3978.0  | 3983.3  | 4194.1  | 4494.3  | 4699.9  | 5512.9  | 5353.9  | 4446.1 |
| 22.5° | 4476.5  | 4483.6  | 4392.5  | 4240.6  | 4195.9  | 4299.6  | 4576.6  | 4733.9  | 5630.9  | 5645.2  | 4494.3 |
| 25°   | 4887.5  | 4858.9  | 4841.1  | 4626.6  | 4490.8  | 4580.2  | 4762.4  | 4853.6  | 5704.2  | 5895.4  | 4632.0 |
| 27.5° | 5457.6  | 5400.4  | 5291.4  | 5100.1  | 5000.1  | 4873.2  | 5003.7  | 5153.8  | 5913.3  | 6245.7  | 4782.1 |
| 30°   | 6299.2  | 6249.2  | 6036.5  | 5790.0  | 5527.3  | 5402.2  | 5443.3  | 5525.5  | 6290.3  | 6651.3  | 4980.4 |
| 32.5° | 7566.3  | 7460.8  | 7153.5  | 6683.5  | 6326.1  | 5981.2  | 5970.5  | 6058.0  | 6628.1  | 7212.4  | 5216.3 |
| 35°   | 8961.9  | 8929.7  | 8477.6  | 7993.3  | 7301.8  | 6769.3  | 6778.2  | 6824.6  | 7275.0  | 7948.7  | 5525.5 |
| 37.5° | 9889.4  | 10066.3 | 9778.6  | 9258.6  | 8677.8  | 7916.5  | 7723.5  | 7739.6  | 8163.1  | 8820.7  | 6083.0 |
| 40°   | 10606.0 | 10455.9 | 10489.9 | 10368.3 | 9971.6  | 9453.4  | 9026.3  | 8942.3  | 9190.7  | 9785.8  | 6637.0 |
| 42.5° | 10293.2 | 10300.4 | 10509.5 | 10797.2 | 10895.4 | 10857.9 | 10421.9 | 10262.9 | 10069.8 | 10575.6 | 7164.2 |
| 45°   | 9410.5  | 9594.6  | 9866.2  | 10627.4 | 11295.8 | 11923.1 | 11837.2 | 11572.7 | 10677.5 | 11201.0 | 7467.9 |
| 47.5° | 8002.3  | 7995.1  | 8440.1  | 9430.1  | 10915.2 | 12384.1 | 12773.6 | 12587.8 | 11108.1 | 11131.4 | 7405.5 |
| 48°   | 7482.3  | 7610.9  | 8070.2  | 9235.3  | 10673.9 | 12316.2 | 12857.6 | 12623.5 | 11034.9 | 11038.4 | 7351.8 |
| 50°   | 5530.9  | 5507.6  | 6079.4  | 7509.0  | 9533.8  | 11572.7 | 12503.8 | 12686.1 | 11033.1 | 10568.5 | 6976.5 |
| 52.5° | 2921.8  | 3021.8  | 3438.2  | 4721.3  | 6740.7  | 9471.2  | 11029.5 | 11313.6 | 10643.5 | 9800.0  | 6436.9 |
| 55°   | 1242.0  | 1122.3  | 1442.1  | 2132.0  | 3792.1  | 6327.8  | 8091.7  | 8724.3  | 8999.5  | 8672.4  | 5630.9 |
| 57.5° | 443.2   | 484.3   | 557.6   | 802.3   | 1594.0  | 3463.3  | 4825.0  | 5316.4  | 6235.0  | 6363.6  | 3836.8 |
| 60°   | 284.2   | 289.5   | 312.7   | 368.1   | 598.7   | 1334.9  | 2289.2  | 2680.5  | 3096.9  | 3197.0  | 1790.6 |
| 62.5° | 219.8   | 221.6   | 232.3   | 241.2   | 284.2   | 518.3   | 859.6   | 1018.6  | 1057.9  | 909.6   | 470.0  |
| 65°   | 184.1   | 185.9   | 189.4   | 189.4   | 201.9   | 243.0   | 300.2   | 330.6   | 321.7   | 318.1   | 266.3  |
| 67.5° | 141.2   | 144.8   | 151.9   | 151.9   | 159.0   | 148.3   | 166.2   | 176.9   | 200.1   | 243.0   | 226.9  |
| 70°   | 110.8   | 112.6   | 117.9   | 121.5   | 121.5   | 107.2   | 119.7   | 130.4   | 146.5   | 180.5   | 178.7  |
| 72.5° | 85.7    | 89.3    | 92.9    | 92.9    | 87.5    | 73.3    | 85.7    | 94.7    | 105.5   | 125.1   | 121.5  |
| 75°   | 66.1    | 66.1    | 67.9    | 55.4    | 42.9    | 37.5    | 51.8    | 62.6    | 78.6    | 82.2    | 67.9   |
| 77.5° | 17.9    | 19.7    | 17.9    | 16.1    | 17.9    | 26.8    | 34.0    | 39.3    | 50.0    | 50.0    | 44.7   |
| 80°   | 0.0     | 1.8     | 5.3     | 10.7    | 17.9    | 25.1    | 30.4    | 34.0    | 39.3    | 42.9    | 41.1   |
| 82.5° | 0.0     | 1.8     | 5.3     | 10.7    | 16.1    | 19.7    | 26.8    | 28.6    | 32.2    | 37.5    | 37.5   |
| 85°   | 0.0     | 1.8     | 3.6     | 7.1     | 10.7    | 12.5    | 12.5    | 10.7    | 10.7    | 8.9     | 7.1    |
| 87.5° | 0.0     | 0.0     | 1.8     | 3.6     | 3.6     | 5.3     | 5.3     | 5.3     | 5.3     | 5.3     | 5.3    |
| 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: P646822

CATALOG NUMBER: GALN-SA3C-835-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 | 3540.1 |
| 2.5°  | 3558.0 | 3502.6 | 3418.6 | 3286.3 | 3159.5 | 3077.3 | 2998.7 | 2911.0 | 2862.8 | 2859.2 | 2832.4 |
| 5°    | 3600.9 | 3475.7 | 3275.6 | 3048.7 | 2805.6 | 2596.5 | 2385.6 | 2248.1 | 2124.7 | 2056.9 | 2044.3 |
| 7.5°  | 3624.1 | 3461.5 | 3138.0 | 2757.4 | 2342.8 | 2001.5 | 1765.6 | 1592.2 | 1524.3 | 1474.3 | 1472.5 |
| 10°   | 3672.3 | 3436.4 | 2932.5 | 2371.4 | 1858.5 | 1513.6 | 1351.0 | 1272.4 | 1234.9 | 1220.5 | 1199.1 |
| 12.5° | 3708.1 | 3390.0 | 2721.6 | 1974.6 | 1468.9 | 1254.5 | 1183.0 | 1165.1 | 1166.9 | 1174.1 | 1165.1 |
| 15°   | 3758.1 | 3348.9 | 2437.5 | 1620.8 | 1233.1 | 1129.4 | 1129.4 | 1133.0 | 1158.0 | 1161.6 | 1159.8 |
| 17.5° | 3754.6 | 3268.5 | 2144.4 | 1334.9 | 1090.1 | 1075.8 | 1081.2 | 1115.1 | 1131.2 | 1136.5 | 1124.1 |
| 20°   | 3797.4 | 3193.4 | 1842.4 | 1140.1 | 1009.7 | 1031.1 | 1066.8 | 1075.8 | 1095.4 | 1099.0 | 1084.7 |
| 22.5° | 3784.9 | 3005.8 | 1561.9 | 986.4  | 948.9  | 990.0  | 1025.7 | 1036.5 | 1031.1 | 1020.4 | 1018.6 |
| 25°   | 3761.7 | 2845.0 | 1304.6 | 884.6  | 904.2  | 948.9  | 982.9  | 963.2  | 952.5  | 954.2  | 956.0  |
| 27.5° | 3720.6 | 2641.2 | 1091.9 | 813.1  | 843.4  | 909.6  | 907.8  | 900.7  | 911.4  | 902.5  | 911.4  |
| 30°   | 3713.5 | 2437.5 | 916.7  | 748.8  | 798.8  | 847.0  | 850.7  | 863.1  | 875.6  | 859.6  | 875.6  |
| 32.5° | 3724.2 | 2214.1 | 791.6  | 709.5  | 772.0  | 773.8  | 813.1  | 825.6  | 816.7  | 781.0  | 784.5  |
| 35°   | 3806.4 | 2042.5 | 700.6  | 688.0  | 729.1  | 730.9  | 768.4  | 752.3  | 713.0  | 691.5  | 704.1  |
| 37.5° | 3979.7 | 1899.6 | 657.6  | 668.4  | 671.9  | 695.1  | 696.9  | 664.8  | 668.4  | 666.6  | 673.7  |
| 40°   | 4201.3 | 1790.6 | 627.3  | 650.4  | 646.9  | 663.0  | 598.7  | 616.5  | 632.6  | 638.0  | 641.5  |
| 42.5° | 4353.2 | 1712.0 | 607.6  | 621.9  | 614.7  | 586.2  | 550.4  | 568.3  | 580.8  | 600.4  | 604.0  |
| 45°   | 4421.1 | 1649.4 | 584.4  | 571.8  | 571.8  | 520.0  | 505.7  | 509.3  | 537.9  | 559.4  | 555.8  |
| 47.5° | 4310.3 | 1588.6 | 543.2  | 505.7  | 518.3  | 475.4  | 459.2  | 459.2  | 489.6  | 516.5  | 511.1  |
| 48°   | 4267.4 | 1563.7 | 545.0  | 491.4  | 500.3  | 468.2  | 452.1  | 448.6  | 482.5  | 507.5  | 507.5  |
| 50°   | 4054.8 | 1470.7 | 498.6  | 452.1  | 434.3  | 430.6  | 419.9  | 423.5  | 445.0  | 468.2  | 468.2  |
| 52.5° | 3640.2 | 1270.6 | 421.7  | 387.8  | 355.6  | 377.1  | 382.4  | 375.3  | 386.0  | 407.5  | 405.7  |
| 55°   | 3038.0 | 975.7  | 337.8  | 321.7  | 296.7  | 319.9  | 330.6  | 321.7  | 310.9  | 327.1  | 327.1  |
| 57.5° | 1946.1 | 525.4  | 269.8  | 273.4  | 248.4  | 271.6  | 280.5  | 259.1  | 239.4  | 252.0  | 250.2  |
| 60°   | 877.4  | 314.5  | 221.6  | 216.3  | 200.1  | 226.9  | 241.2  | 216.3  | 189.4  | 198.3  | 207.3  |
| 62.5° | 328.8  | 223.4  | 168.0  | 164.4  | 160.8  | 185.9  | 193.0  | 173.4  | 146.5  | 151.9  | 153.7  |
| 65°   | 241.2  | 196.6  | 134.0  | 121.5  | 128.6  | 146.5  | 143.0  | 123.3  | 105.5  | 105.5  | 109.0  |
| 67.5° | 205.5  | 171.6  | 109.0  | 94.7   | 94.7   | 96.5   | 89.3   | 78.6   | 73.3   | 76.8   | 80.4   |
| 70°   | 160.8  | 135.9  | 85.7   | 73.3   | 66.1   | 59.0   | 51.8   | 50.0   | 44.7   | 50.0   | 48.2   |
| 72.5° | 103.7  | 91.1   | 66.1   | 55.4   | 50.0   | 41.1   | 34.0   | 32.2   | 26.8   | 25.1   | 25.1   |
| 75°   | 55.4   | 55.4   | 51.8   | 44.7   | 39.3   | 32.2   | 26.8   | 21.5   | 14.3   | 10.7   | 10.7   |
| 77.5° | 39.3   | 42.9   | 46.4   | 42.9   | 35.7   | 26.8   | 21.5   | 14.3   | 7.1    | 3.6    | 3.6    |
| 80°   | 37.5   | 42.9   | 46.4   | 41.1   | 35.7   | 26.8   | 19.7   | 10.7   | 5.3    | 1.8    | 1.8    |
| 82.5° | 34.0   | 39.3   | 42.9   | 37.5   | 32.2   | 23.3   | 17.9   | 10.7   | 5.3    | 1.8    | 1.8    |
| 85°   | 7.1    | 8.9    | 10.7   | 10.7   | 12.5   | 16.1   | 12.5   | 8.9    | 3.6    | 1.8    | 1.8    |
| 87.5° | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 3.6    | 3.6    | 1.8    | 1.8    | 1.8    |
| 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)