

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: P648536

Luminaire Tested: **GALN-SA7B-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25398.2 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

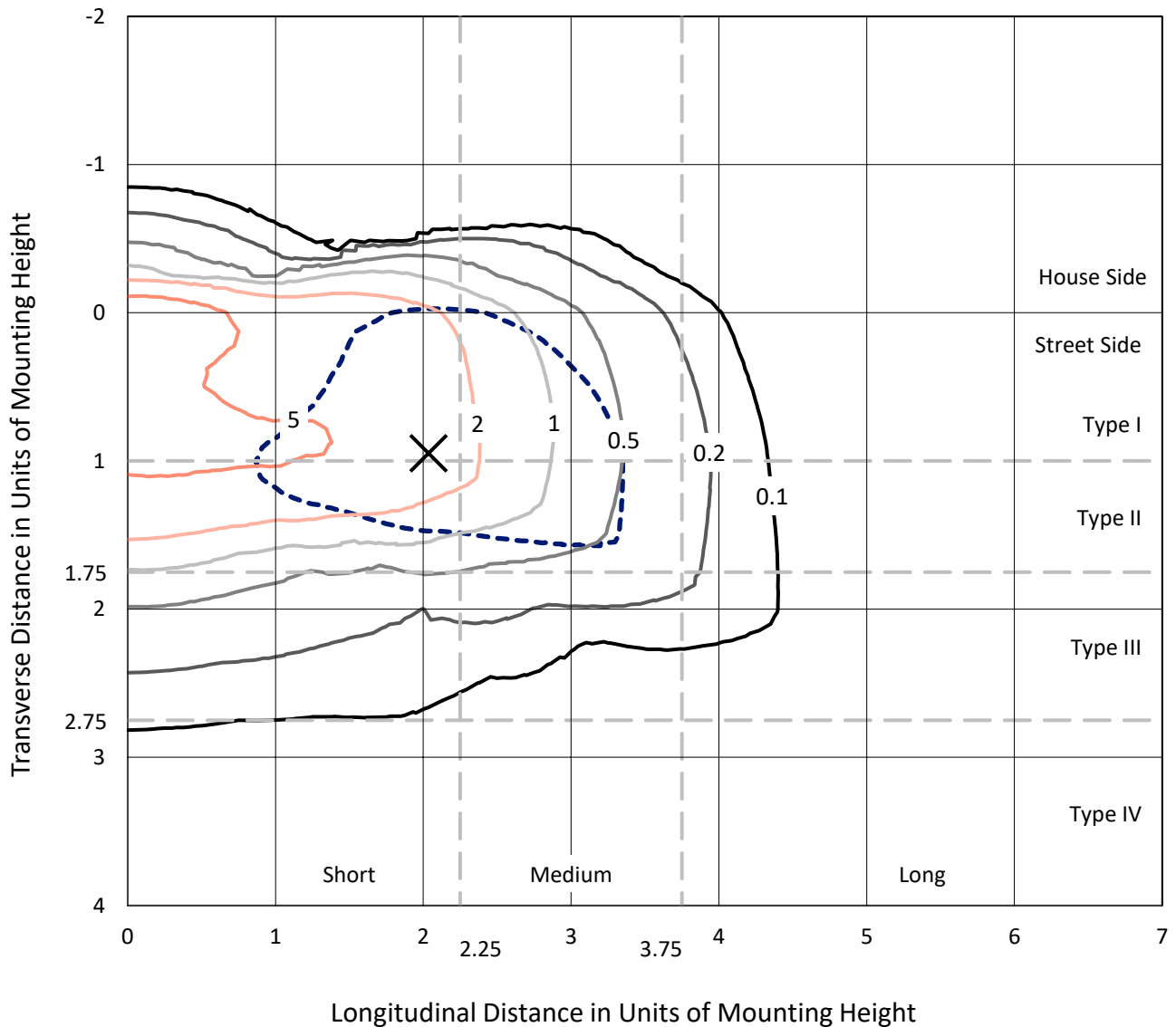
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648536  
 CATALOG NUMBER: GALN-SA7B-835-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

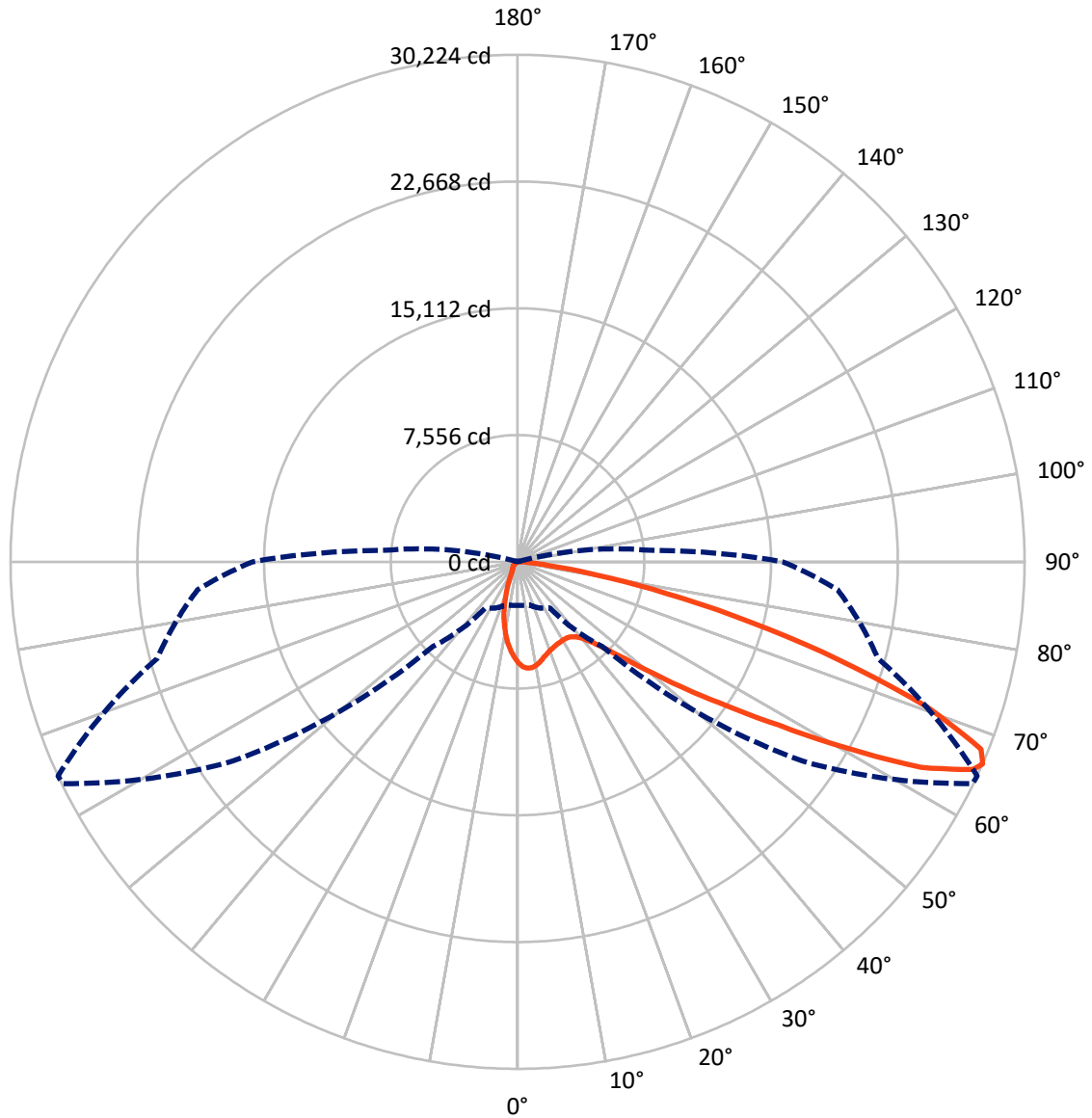
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P648536  
CATALOG NUMBER: GALN-SA7B-835-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P648536  
 CATALOG NUMBER: GALN-SA7B-835-U-SL2-HSS

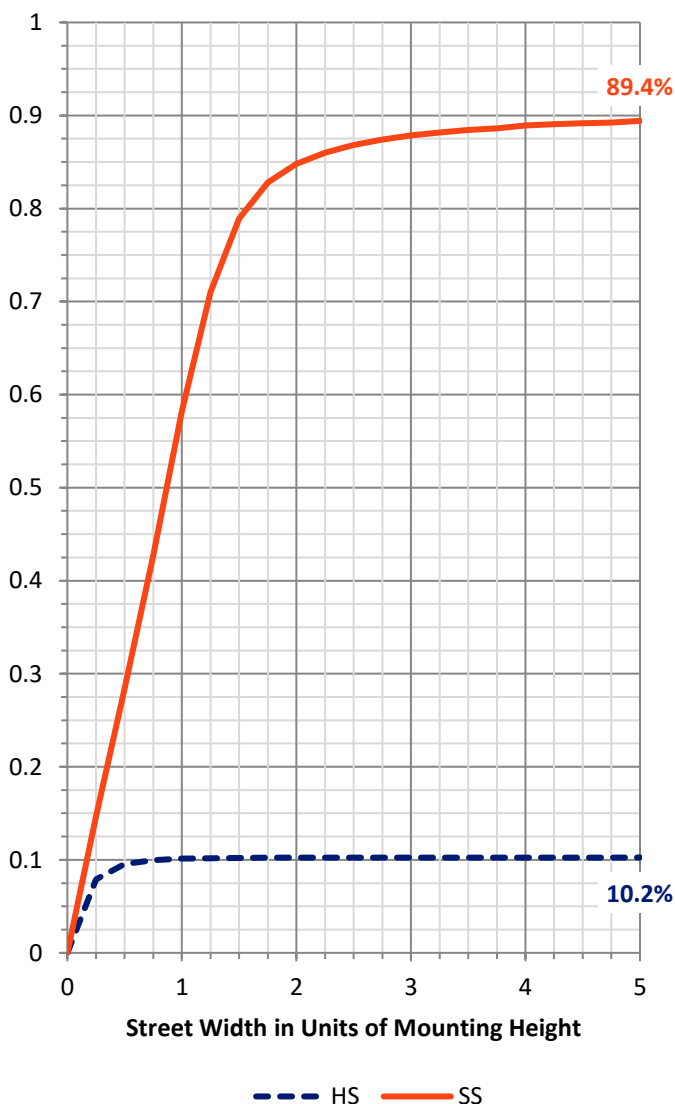
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2626.5   | 0.0    | 2626.5  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 22771.6  | 0.0    | 22771.6 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 25398.2  | 0.0    | 25398.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 492.6   | 1.9       |
| 10°-20°   | 1073.3  | 4.2       |
| 20°-30°   | 1537.4  | 6.1       |
| 30°-40°   | 2245.6  | 8.8       |
| 40°-50°   | 3765.4  | 14.8      |
| 50°-60°   | 6283.9  | 24.7      |
| 60°-70°   | 6670.1  | 26.3      |
| 70°-80°   | 3020.9  | 11.9      |
| 80°-90°   | 309.1   | 1.2       |
| 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°    | 25398.2 | 100.0     |
| 0°-180°   | 25398.2 | 100.0     |

**Coefficient of Utilization**

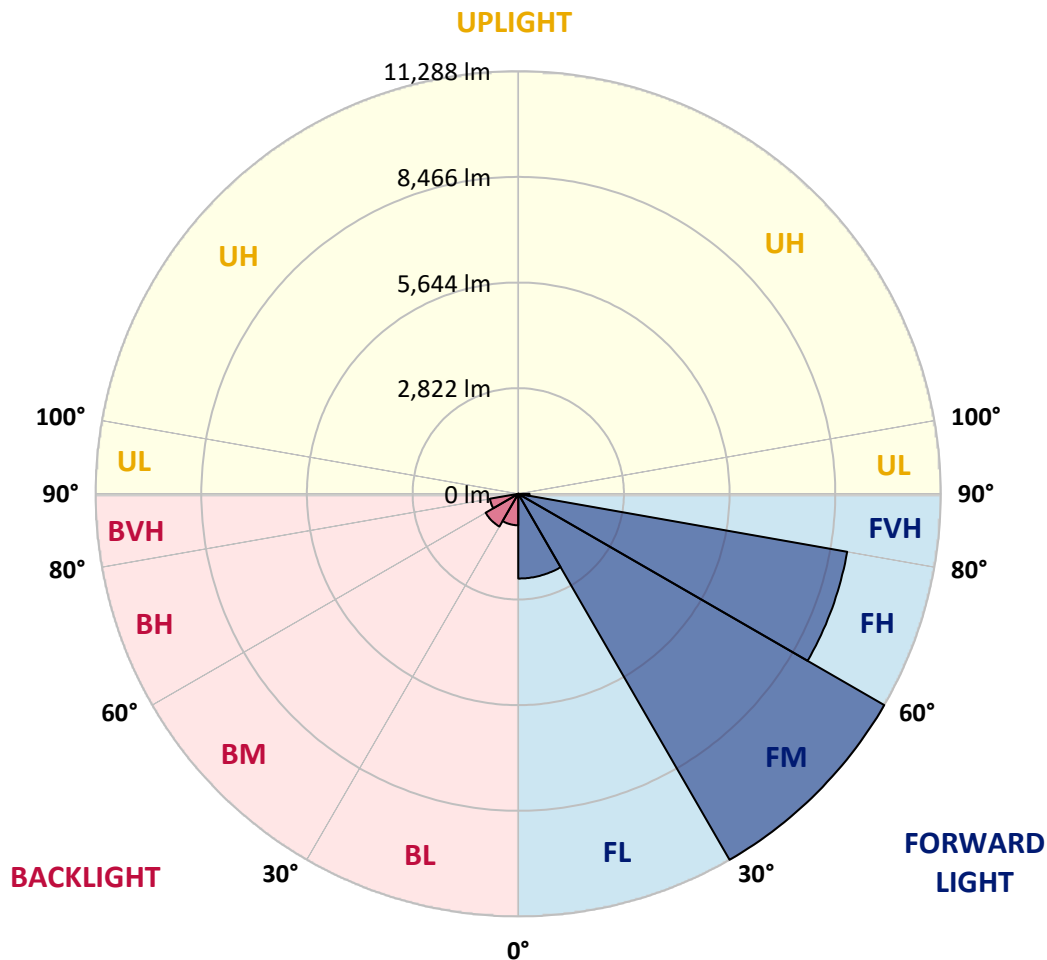


REPORT NUMBER: P648536  
 CATALOG NUMBER: GALN-SA7B-835-U-SL2-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2263.1  | 8.9       |                         |      |          |
| FM (30°-60°)   | 11287.5 | 44.4      |                         |      |          |
| FH (60°-80°)   | 8921.8  | 35.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 299.2   | 1.2       |                         |      | G3/500   |
| BL (0°-30°)    | 840.2   | 3.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 1007.3  | 4.0       | B2/2500                 |      |          |
| BH (60°-80°)   | 769.2   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 9.8     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type II Short





REPORT NUMBER: P648536

CATALOG NUMBER: GALN-SA7B-835-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  | 6022.8  |
| 2.5°  | 6347.1  | 6353.9  | 6362.5  | 6374.5  | 6383.1  | 6357.3  | 6321.3  | 6280.1  | 6271.6  | 6184.1  | 6077.7  |
| 5°    | 6007.4  | 6017.7  | 6093.1  | 6134.3  | 6227.0  | 6311.1  | 6364.2  | 6371.0  | 6367.7  | 6285.3  | 6115.5  |
| 7.5°  | 5523.7  | 5552.8  | 5626.6  | 5698.6  | 5871.9  | 6031.4  | 6220.2  | 6352.2  | 6360.8  | 6338.5  | 6127.4  |
| 10°   | 5130.8  | 5149.7  | 5187.5  | 5329.8  | 5473.9  | 5717.5  | 5981.7  | 6230.4  | 6251.0  | 6340.2  | 6117.2  |
| 12.5° | 4823.7  | 4851.2  | 4897.5  | 5007.3  | 5180.6  | 5410.5  | 5710.7  | 6045.2  | 6088.1  | 6307.6  | 6088.1  |
| 15°   | 4609.4  | 4623.1  | 4669.3  | 4777.5  | 4945.6  | 5158.2  | 5461.9  | 5851.3  | 5889.0  | 6264.7  | 6082.9  |
| 17.5° | 4508.1  | 4523.5  | 4556.1  | 4641.9  | 4780.8  | 4978.2  | 5274.9  | 5695.2  | 5743.2  | 6237.3  | 6101.8  |
| 20°   | 4535.6  | 4549.3  | 4551.0  | 4595.6  | 4689.9  | 4856.3  | 5137.7  | 5549.4  | 5611.1  | 6220.2  | 6132.6  |
| 22.5° | 4691.7  | 4693.4  | 4672.8  | 4652.2  | 4684.8  | 4804.9  | 5053.6  | 5456.7  | 5520.2  | 6216.7  | 6168.6  |
| 25°   | 4925.0  | 4930.1  | 4895.8  | 4823.7  | 4758.6  | 4820.3  | 5034.8  | 5396.7  | 5453.4  | 6208.1  | 6190.9  |
| 27.5° | 5247.5  | 5245.8  | 5235.5  | 5115.4  | 4930.1  | 4889.0  | 5050.2  | 5364.1  | 5412.2  | 6184.1  | 6199.6  |
| 30°   | 5698.6  | 5684.9  | 5662.6  | 5527.1  | 5244.1  | 5055.4  | 5115.4  | 5343.5  | 5388.1  | 6149.8  | 6177.2  |
| 32.5° | 6142.9  | 6194.4  | 6190.9  | 6062.3  | 5708.9  | 5352.1  | 5250.9  | 5371.0  | 5403.6  | 6127.4  | 6144.7  |
| 35°   | 6661.0  | 6659.3  | 6791.4  | 6743.4  | 6329.9  | 5731.2  | 5482.5  | 5461.9  | 5487.7  | 6142.9  | 6129.2  |
| 37.5° | 7141.3  | 7185.9  | 7391.8  | 7441.5  | 7064.1  | 6266.4  | 5810.1  | 5657.5  | 5666.0  | 6247.6  | 6166.9  |
| 40°   | 7740.0  | 7825.8  | 8132.8  | 8299.2  | 7966.4  | 7060.7  | 6293.9  | 6015.9  | 6017.7  | 6504.9  | 6309.3  |
| 42.5° | 8511.9  | 8647.5  | 8933.9  | 9211.8  | 9033.4  | 8000.7  | 7019.5  | 6583.8  | 6580.3  | 6957.7  | 6635.2  |
| 45°   | 9450.3  | 9544.6  | 9870.5  | 10311.4 | 10198.2 | 9313.0  | 8076.2  | 7463.8  | 7419.2  | 7700.5  | 7213.3  |
| 47.5° | 10260.0 | 10388.6 | 10719.7 | 11222.3 | 11736.9 | 10915.3 | 9338.8  | 8673.1  | 8644.0  | 8882.4  | 8204.8  |
| 50°   | 10613.3 | 10726.6 | 11074.8 | 11779.8 | 13026.9 | 13018.3 | 11218.8 | 10438.3 | 10388.6 | 10517.3 | 9738.4  |
| 52.5° | 10225.6 | 10332.0 | 10683.6 | 11561.9 | 13634.1 | 15581.2 | 13943.0 | 12653.0 | 12592.9 | 12428.2 | 11570.5 |
| 55°   | 8897.9  | 8985.4  | 9505.2  | 10513.8 | 13400.9 | 17289.7 | 17696.3 | 15389.0 | 15155.7 | 14515.9 | 13644.5 |
| 57.5° | 7084.7  | 7040.1  | 7362.5  | 8534.2  | 12032.0 | 17862.7 | 21549.1 | 18797.6 | 18380.8 | 16320.5 | 15399.3 |
| 60°   | 4909.6  | 5046.7  | 5177.1  | 5949.1  | 9047.1  | 16869.4 | 23945.5 | 23082.7 | 22533.8 | 18096.0 | 17080.4 |
| 62.5° | 3609.2  | 3700.1  | 3786.0  | 4142.8  | 5688.3  | 13469.5 | 24369.3 | 27484.5 | 26997.3 | 19981.2 | 18684.3 |
| 65°   | 2854.4  | 2861.3  | 2895.6  | 3247.3  | 3748.2  | 8759.0  | 22333.0 | 29966.7 | 29841.5 | 21796.1 | 19334.5 |
| 66°   | 2600.6  | 2602.3  | 2655.5  | 3032.9  | 3363.9  | 7132.7  | 20701.7 | 30155.4 | 30224.0 | 22231.9 | 19144.1 |
| 67.5° | 2273.0  | 2266.1  | 2343.3  | 2725.8  | 3063.7  | 5142.8  | 17782.1 | 29390.3 | 29796.8 | 22566.4 | 18459.6 |
| 70°   | 1761.8  | 1753.1  | 1847.5  | 2286.7  | 2821.9  | 3430.9  | 11819.2 | 25235.5 | 25890.8 | 21881.9 | 16332.5 |
| 72.5° | 1173.3  | 1180.2  | 1341.4  | 1804.7  | 2693.2  | 3020.9  | 7110.4  | 19197.3 | 20123.6 | 18070.2 | 12848.5 |
| 75°   | 684.4   | 696.5   | 880.0   | 1341.4  | 2338.1  | 2880.2  | 4024.4  | 13689.0 | 14280.9 | 12478.0 | 8004.1  |
| 77.5° | 358.5   | 363.7   | 492.4   | 885.2   | 1792.6  | 2674.3  | 2681.2  | 8745.2  | 9023.1  | 6064.0  | 3168.4  |
| 80°   | 190.4   | 185.3   | 264.2   | 533.5   | 1233.4  | 2348.4  | 2175.2  | 4630.0  | 4813.5  | 1801.2  | 801.1   |
| 82.5° | 72.0    | 78.9    | 140.6   | 349.9   | 729.1   | 1686.3  | 1873.2  | 2046.5  | 1983.0  | 396.3   | 336.2   |
| 85°   | 13.7    | 17.1    | 60.1    | 207.6   | 367.1   | 705.0   | 1380.9  | 1003.5  | 929.7   | 149.2   | 193.9   |
| 87.5° | 1.7     | 3.4     | 17.1    | 49.7    | 53.2    | 238.4   | 408.3   | 277.9   | 240.1   | 54.9    | 80.6    |
| 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: P648536  
 CATALOG NUMBER: GALN-SA7B-835-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6022.8  | 6022.8 | 6022.8 | 6022.8 | 6022.8 | 6022.8 | 6022.8 | 6022.8 | 6022.8 | 6022.8 | 6022.8 |
| 2.5°  | 6026.3  | 5979.9 | 5825.6 | 5672.9 | 5516.8 | 5376.2 | 5280.1 | 5124.0 | 5084.5 | 5027.9 | 4995.3 |
| 5°    | 6014.3  | 5906.2 | 5609.4 | 5285.2 | 4983.3 | 4657.4 | 4408.6 | 4168.5 | 4039.8 | 3974.7 | 3950.6 |
| 7.5°  | 5979.9  | 5808.5 | 5345.2 | 4837.5 | 4353.7 | 3866.5 | 3442.9 | 3120.3 | 2912.8 | 2770.4 | 2674.3 |
| 10°   | 5911.3  | 5674.6 | 5038.2 | 4340.0 | 3609.2 | 2965.9 | 2429.0 | 2020.8 | 1705.1 | 1605.6 | 1609.1 |
| 12.5° | 5841.0  | 5525.4 | 4695.1 | 3787.7 | 2881.9 | 2070.5 | 1501.0 | 1178.5 | 1027.5 | 977.8  | 967.5  |
| 15°   | 5775.8  | 5383.0 | 4358.9 | 3252.4 | 2146.0 | 1341.4 | 967.5  | 854.3  | 813.1  | 804.5  | 802.8  |
| 17.5° | 5741.5  | 5250.9 | 4000.3 | 2640.0 | 1497.6 | 910.9  | 775.4  | 744.5  | 732.5  | 723.9  | 720.4  |
| 20°   | 5712.4  | 5135.9 | 3657.3 | 2067.1 | 1024.1 | 746.2  | 694.8  | 665.6  | 645.0  | 636.4  | 631.3  |
| 22.5° | 5691.8  | 5017.6 | 3302.2 | 1600.5 | 783.9  | 662.2  | 615.8  | 578.1  | 549.0  | 538.6  | 531.8  |
| 25°   | 5660.9  | 4887.3 | 2943.7 | 1169.9 | 660.5  | 588.4  | 535.2  | 490.6  | 452.9  | 434.0  | 430.6  |
| 27.5° | 5616.3  | 4739.7 | 2550.9 | 866.3  | 590.1  | 523.2  | 458.1  | 403.1  | 365.3  | 344.8  | 346.5  |
| 30°   | 5544.3  | 4585.3 | 2158.0 | 687.9  | 533.5  | 456.3  | 385.9  | 332.8  | 296.8  | 281.3  | 279.6  |
| 32.5° | 5458.4  | 4398.3 | 1797.8 | 590.1  | 482.0  | 396.3  | 322.5  | 276.2  | 248.8  | 236.7  | 235.0  |
| 35°   | 5377.9  | 4209.6 | 1430.7 | 530.1  | 428.8  | 341.4  | 271.1  | 231.6  | 211.0  | 200.7  | 202.4  |
| 37.5° | 5333.2  | 4041.5 | 1115.0 | 482.0  | 385.9  | 293.3  | 233.3  | 199.0  | 180.1  | 171.6  | 169.8  |
| 40°   | 5362.4  | 3904.3 | 886.9  | 439.2  | 337.9  | 252.2  | 200.7  | 171.6  | 152.7  | 140.6  | 140.6  |
| 42.5° | 5499.6  | 3844.3 | 715.3  | 398.0  | 293.3  | 217.8  | 175.0  | 147.5  | 126.9  | 114.9  | 116.7  |
| 45°   | 5918.2  | 3907.7 | 598.7  | 360.3  | 252.2  | 188.7  | 151.0  | 121.8  | 102.9  | 94.4   | 92.6   |
| 47.5° | 6613.0  | 4146.1 | 518.0  | 320.8  | 216.1  | 161.2  | 126.9  | 101.2  | 82.4   | 75.5   | 73.8   |
| 50°   | 7827.5  | 4638.5 | 458.1  | 281.3  | 183.5  | 137.3  | 104.6  | 80.6   | 65.2   | 58.3   | 58.3   |
| 52.5° | 9498.3  | 5712.4 | 415.1  | 236.7  | 154.4  | 116.7  | 85.7   | 65.2   | 51.4   | 46.4   | 44.6   |
| 55°   | 11244.6 | 6844.5 | 392.8  | 199.0  | 128.6  | 96.1   | 68.6   | 51.4   | 39.5   | 34.3   | 32.6   |
| 57.5° | 12924.0 | 7733.1 | 367.1  | 161.2  | 102.9  | 73.8   | 53.2   | 39.5   | 27.5   | 24.0   | 22.3   |
| 60°   | 14534.8 | 8451.9 | 312.2  | 128.6  | 80.6   | 53.2   | 39.5   | 27.5   | 18.9   | 15.4   | 15.4   |
| 62.5° | 15975.7 | 8870.5 | 245.3  | 102.9  | 61.8   | 37.7   | 25.8   | 20.6   | 13.7   | 10.3   | 10.3   |
| 65°   | 16143.8 | 8326.7 | 185.3  | 78.9   | 44.6   | 24.0   | 15.4   | 15.4   | 10.3   | 6.9    | 6.9    |
| 66°   | 15805.9 | 7865.2 | 162.9  | 72.0   | 39.5   | 20.6   | 13.7   | 12.0   | 8.6    | 5.2    | 5.2    |
| 67.5° | 15051.1 | 7077.9 | 140.6  | 61.8   | 32.6   | 15.4   | 10.3   | 10.3   | 6.9    | 3.4    | 3.4    |
| 70°   | 13004.6 | 5781.0 | 111.5  | 46.4   | 24.0   | 12.0   | 6.9    | 6.9    | 5.2    | 3.4    | 3.4    |
| 72.5° | 9911.7  | 4316.0 | 90.9   | 34.3   | 17.1   | 8.6    | 5.2    | 5.2    | 5.2    | 3.4    | 3.4    |
| 75°   | 5978.2  | 2324.4 | 70.3   | 25.8   | 15.4   | 6.9    | 3.4    | 5.2    | 6.9    | 5.2    | 3.4    |
| 77.5° | 2202.6  | 790.8  | 54.9   | 20.6   | 12.0   | 6.9    | 3.4    | 3.4    | 6.9    | 5.2    | 5.2    |
| 80°   | 540.3   | 205.9  | 39.5   | 17.1   | 12.0   | 6.9    | 3.4    | 3.4    | 6.9    | 6.9    | 6.9    |
| 82.5° | 250.5   | 87.5   | 27.5   | 15.4   | 12.0   | 6.9    | 3.4    | 3.4    | 5.2    | 6.9    | 6.9    |
| 85°   | 144.1   | 41.2   | 22.3   | 17.1   | 12.0   | 6.9    | 3.4    | 3.4    | 5.2    | 6.9    | 6.9    |
| 87.5° | 58.3    | 20.6   | 20.6   | 17.1   | 13.7   | 8.6    | 3.4    | 3.4    | 3.4    | 5.2    | 5.2    |
| 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)