

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: P647659

Luminaire Tested: **GALN-SA9D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46455.4 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

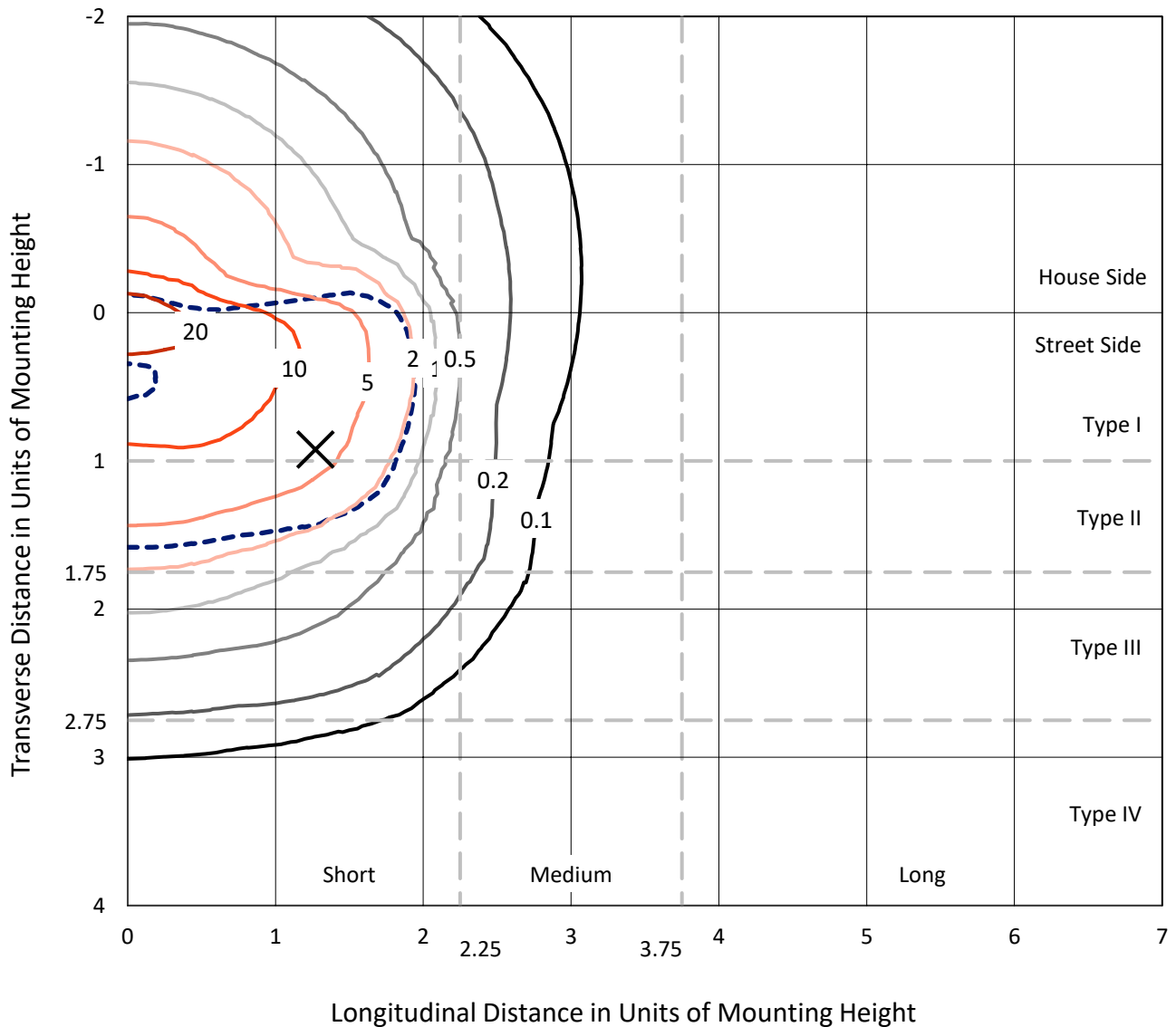
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647659
 CATALOG NUMBER: GALN-SA9D-835-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

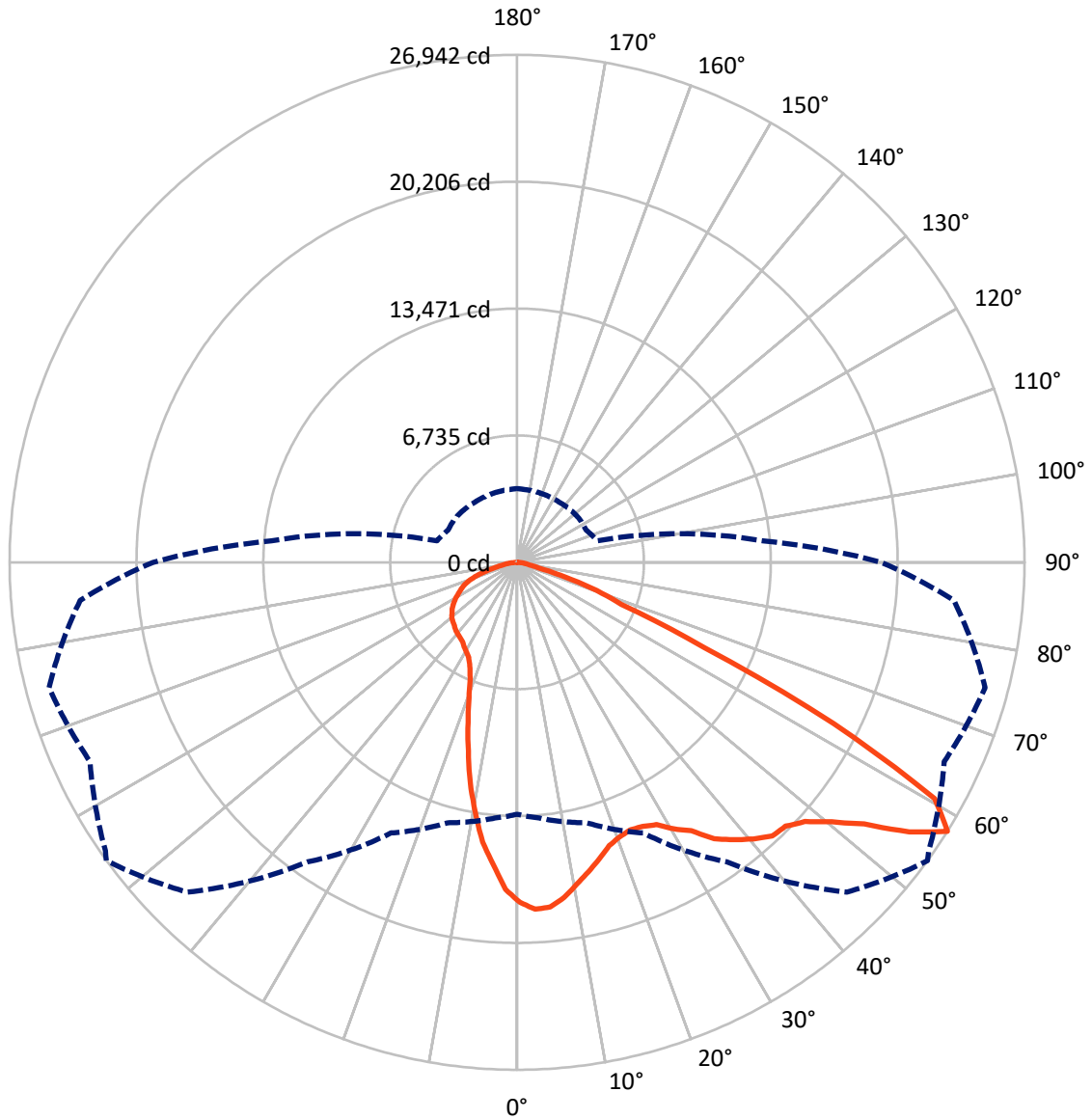
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 fc
 Type II - Short - N/A

REPORT NUMBER: P647659
CATALOG NUMBER: GALN-SA9D-835-U-SL3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P647659
 CATALOG NUMBER: GALN-SA9D-835-U-SL3-GRSWH

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12852.1 | 0.0 | 12852.1 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 33603.2 | 0.0 | 33603.2 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 46455.4 | 0.0 | 46455.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1557.2 | 3.4 |
| 10°-20° | 3605.5 | 7.8 |
| 20°-30° | 5065.8 | 10.9 |
| 30°-40° | 7082.0 | 15.2 |
| 40°-50° | 9587.7 | 20.6 |
| 50°-60° | 11678.3 | 25.1 |
| 60°-70° | 6082.5 | 13.1 |
| 70°-80° | 1558.6 | 3.4 |
| 80°-90° | 237.8 | 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° | 46455.4 | 100.0 |
| 0°-180° | 46455.4 | 100.0 |

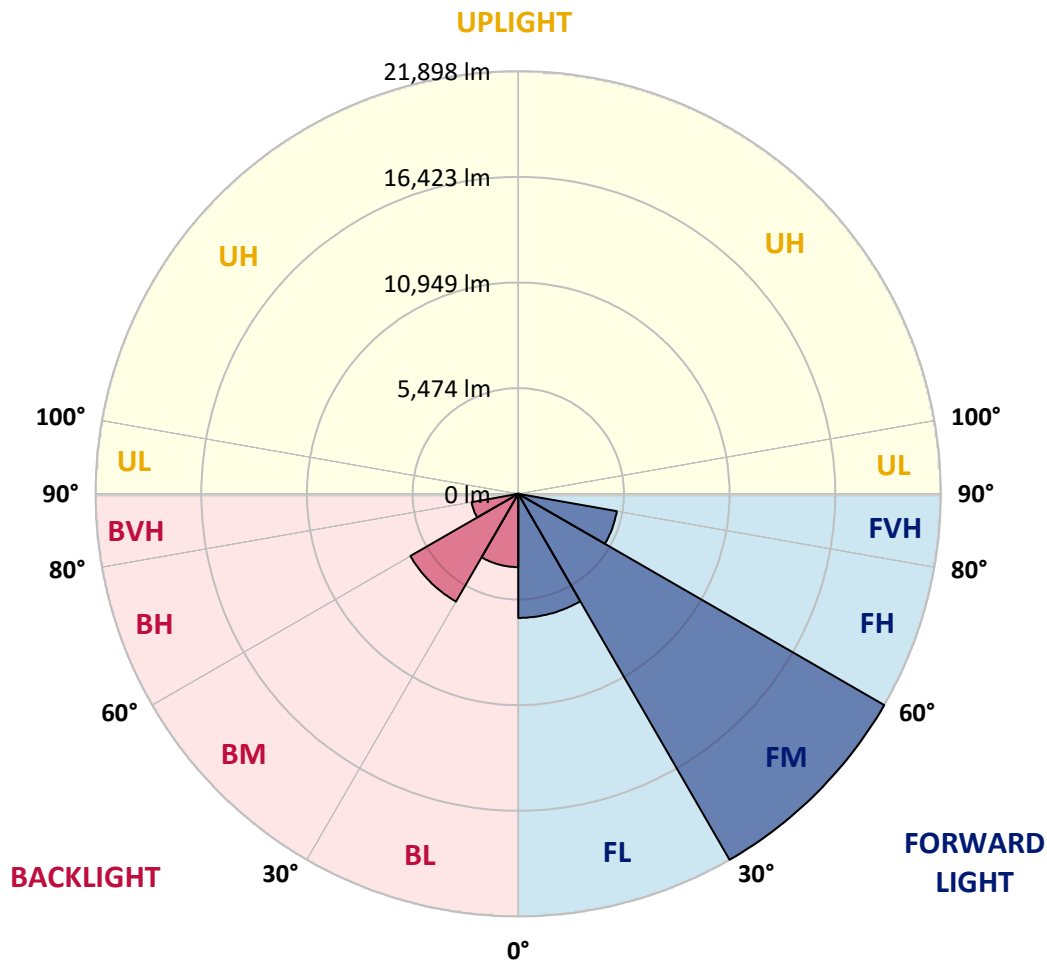


REPORT NUMBER: P647659
 CATALOG NUMBER: GALN-SA9D-835-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6430.1 | 13.8 | | | |
| FM (30°-60°) | 21897.6 | 47.1 | | | |
| FH (60°-80°) | 5185.7 | 11.2 | | | G3/7500 |
| FVH (80°-90°) | 89.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3798.5 | 8.2 | B4/5000 | | |
| BM (30°-60°) | 6450.4 | 13.9 | B4/8500 | | |
| BH (60°-80°) | 2455.4 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





REPORT NUMBER: P647659

CATALOG NUMBER: GALN-SA9D-835-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 |
| 2.5° | 18570.2 | 18498.5 | 18510.5 | 18606.0 | 18486.6 | 18438.9 | 18438.9 | 18205.9 | 18223.9 | 18062.6 | 18020.8 |
| 5° | 18140.3 | 17973.1 | 18086.5 | 18229.8 | 18253.7 | 18301.5 | 18379.1 | 18319.4 | 18152.2 | 17979.1 | 17698.4 |
| 7.5° | 17017.7 | 17167.0 | 17208.8 | 17310.3 | 17525.3 | 17722.3 | 17967.1 | 17799.9 | 17793.9 | 17620.8 | 17453.6 |
| 10° | 16032.5 | 15942.9 | 16169.8 | 16319.1 | 16677.4 | 17005.7 | 17382.0 | 17364.0 | 17453.6 | 17256.5 | 16970.0 |
| 12.5° | 15053.2 | 14981.5 | 15089.0 | 15429.4 | 15931.0 | 16408.6 | 16856.5 | 16689.3 | 17167.0 | 17131.2 | 16516.1 |
| 15° | 14014.2 | 14068.0 | 14223.2 | 14539.7 | 15196.5 | 15769.8 | 16337.0 | 16342.9 | 16766.9 | 16910.2 | 16086.2 |
| 17.5° | 13285.8 | 13226.0 | 13423.0 | 13894.8 | 14479.9 | 15166.6 | 15811.5 | 15942.9 | 16593.7 | 16677.4 | 15954.9 |
| 20° | 12742.4 | 12826.0 | 13082.8 | 13321.6 | 13996.3 | 14826.3 | 15554.8 | 15602.5 | 16557.9 | 16784.9 | 15745.8 |
| 22.5° | 12611.0 | 12563.2 | 12646.9 | 13035.0 | 13590.3 | 14491.9 | 15417.4 | 15596.6 | 16552.0 | 16749.0 | 15351.7 |
| 25° | 12473.7 | 12628.9 | 12623.0 | 13011.1 | 13417.1 | 14223.2 | 15530.9 | 15728.0 | 16868.4 | 16934.1 | 15405.5 |
| 27.5° | 12784.2 | 12766.3 | 12933.4 | 12963.3 | 13464.9 | 14294.8 | 15769.8 | 15919.0 | 17393.9 | 17340.2 | 15447.3 |
| 30° | 13094.7 | 13005.1 | 13106.6 | 13458.9 | 13691.8 | 14706.9 | 16426.6 | 16414.7 | 18074.6 | 18038.8 | 15578.6 |
| 32.5° | 13476.8 | 13435.0 | 13500.7 | 13811.2 | 14205.3 | 15256.2 | 16981.9 | 17334.2 | 18767.3 | 18994.2 | 16032.5 |
| 35° | 13548.5 | 13721.6 | 13876.9 | 14294.8 | 14856.2 | 16145.9 | 18026.9 | 18319.4 | 19567.4 | 20277.9 | 16898.3 |
| 37.5° | 14002.3 | 14068.0 | 14432.2 | 15172.7 | 15686.2 | 17334.2 | 18689.6 | 18874.7 | 20295.8 | 21101.9 | 17811.8 |
| 40° | 14486.0 | 14563.6 | 15112.9 | 15889.2 | 16593.7 | 18110.4 | 19310.6 | 19370.3 | 20528.7 | 21734.9 | 18409.0 |
| 42.5° | 15142.8 | 15214.4 | 15757.8 | 16731.1 | 17674.5 | 18773.2 | 19859.9 | 19925.6 | 20510.8 | 22463.3 | 19358.3 |
| 45° | 15823.5 | 15996.6 | 16635.5 | 17740.2 | 18588.1 | 19549.5 | 19985.4 | 20254.0 | 20678.0 | 23114.2 | 20128.7 |
| 47.5° | 16778.8 | 16940.0 | 17465.5 | 18546.3 | 19537.5 | 20230.1 | 20564.6 | 20827.3 | 21078.0 | 23681.4 | 20624.3 |
| 50° | 17793.9 | 17823.8 | 18462.7 | 19442.0 | 20170.5 | 21000.5 | 21645.3 | 21734.9 | 21603.5 | 24338.3 | 21466.2 |
| 52.5° | 18540.3 | 18635.9 | 19131.5 | 20086.8 | 21173.6 | 22194.7 | 23078.4 | 23173.9 | 22917.2 | 24583.1 | 21752.8 |
| 55° | 17304.3 | 17250.6 | 18056.7 | 19328.5 | 21848.4 | 23974.1 | 25257.9 | 25329.5 | 23872.6 | 25341.5 | 22690.2 |
| 57.5° | 13375.3 | 13632.1 | 14318.7 | 15853.3 | 19412.1 | 24762.2 | 26941.7 | 26685.0 | 25019.0 | 25723.6 | 23287.4 |
| 60° | 9721.0 | 9661.3 | 10121.1 | 11148.1 | 14629.3 | 21340.8 | 25472.8 | 25735.6 | 24081.6 | 23185.9 | 19203.2 |
| 62.5° | 7917.7 | 7834.1 | 7869.9 | 7905.8 | 9440.3 | 14163.5 | 18856.8 | 18850.8 | 18546.3 | 16665.4 | 12951.4 |
| 65° | 6329.4 | 6526.5 | 6544.3 | 6813.0 | 7010.1 | 8461.1 | 10927.2 | 11512.3 | 10025.5 | 8222.2 | 5965.1 |
| 67.5° | 4770.9 | 4699.3 | 4938.1 | 5893.5 | 6263.7 | 6108.5 | 5965.1 | 6030.8 | 4287.2 | 3093.0 | 2913.9 |
| 70° | 2812.4 | 2782.5 | 3069.1 | 4108.2 | 5159.0 | 4854.5 | 4496.2 | 4502.2 | 2943.8 | 2161.5 | 2406.4 |
| 72.5° | 1540.6 | 1534.6 | 1594.3 | 2084.0 | 2931.8 | 3045.2 | 2698.9 | 2782.5 | 1755.5 | 1749.5 | 1880.9 |
| 75° | 859.8 | 842.0 | 824.0 | 919.6 | 1056.9 | 1116.6 | 1140.5 | 1152.4 | 1206.1 | 1349.5 | 1403.2 |
| 77.5° | 316.5 | 304.5 | 304.5 | 352.3 | 447.8 | 561.3 | 710.6 | 722.5 | 853.9 | 979.3 | 1033.0 |
| 80° | 107.5 | 119.4 | 161.2 | 221.0 | 298.6 | 400.0 | 483.7 | 495.6 | 603.1 | 686.7 | 704.6 |
| 82.5° | 65.7 | 71.6 | 107.5 | 155.3 | 214.9 | 280.6 | 358.3 | 364.3 | 447.8 | 501.6 | 525.5 |
| 85° | 29.8 | 35.9 | 59.7 | 95.5 | 137.3 | 185.1 | 191.1 | 191.1 | 185.1 | 191.1 | 179.2 |
| 87.5° | 0.0 | 0.0 | 12.0 | 12.0 | 12.0 | 17.9 | 23.9 | 17.9 | 29.8 | 35.9 | 35.9 |
| 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: P647659

CATALOG NUMBER: GALN-SA9D-835-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 | 18056.7 |
| 2.5° | 17895.5 | 17829.8 | 17626.7 | 17447.6 | 17393.9 | 17155.1 | 16802.7 | 16844.5 | 16587.8 | 16707.2 | 16581.8 |
| 5° | 17650.6 | 17429.7 | 16910.2 | 16689.3 | 16110.1 | 15847.4 | 15668.2 | 15220.4 | 15011.4 | 14969.6 | 14790.5 |
| 7.5° | 17023.7 | 16886.3 | 16235.5 | 15638.4 | 15023.3 | 14497.9 | 13823.2 | 13363.4 | 13035.0 | 12945.4 | 12682.6 |
| 10° | 16528.0 | 16223.5 | 15321.9 | 14414.3 | 13536.5 | 12623.0 | 11745.2 | 11058.5 | 10724.1 | 10336.0 | 10204.7 |
| 12.5° | 16038.4 | 15578.6 | 14360.5 | 13196.2 | 12061.6 | 10909.2 | 9846.4 | 9010.5 | 8281.9 | 8108.7 | 8049.1 |
| 15° | 15733.9 | 14933.8 | 13500.7 | 12097.5 | 10485.3 | 8980.5 | 7917.7 | 7368.3 | 6920.5 | 6735.4 | 6866.8 |
| 17.5° | 15333.9 | 14402.3 | 12676.7 | 10807.7 | 9034.3 | 7649.0 | 6759.3 | 6419.0 | 6257.7 | 6275.7 | 6221.9 |
| 20° | 14832.3 | 13900.8 | 11595.9 | 9637.4 | 7738.5 | 6633.9 | 6126.3 | 6001.0 | 6024.9 | 6066.7 | 6048.8 |
| 22.5° | 14474.0 | 13291.7 | 10813.7 | 8443.2 | 6687.7 | 6072.6 | 5863.7 | 5774.1 | 5851.7 | 5887.5 | 5857.7 |
| 25° | 14199.3 | 12772.2 | 9864.3 | 7386.3 | 6078.6 | 5756.1 | 5660.6 | 5654.7 | 5774.1 | 5821.8 | 5792.0 |
| 27.5° | 13948.5 | 12288.6 | 8920.9 | 6580.2 | 5672.6 | 5511.4 | 5481.5 | 5553.1 | 5630.8 | 5678.6 | 5720.4 |
| 30° | 13799.3 | 11918.4 | 8037.1 | 5905.5 | 5469.6 | 5391.9 | 5338.2 | 5403.9 | 5445.7 | 5493.4 | 5469.6 |
| 32.5° | 13942.6 | 11655.7 | 7183.2 | 5523.3 | 5302.3 | 5224.7 | 5296.4 | 5254.6 | 5326.3 | 5368.0 | 5302.3 |
| 35° | 14390.4 | 11422.8 | 6574.2 | 5320.3 | 5111.3 | 5141.1 | 5153.1 | 5135.1 | 5165.1 | 5129.2 | 5206.8 |
| 37.5° | 14832.3 | 11339.2 | 6012.9 | 5147.1 | 5021.7 | 5021.7 | 5009.8 | 4973.9 | 5033.7 | 5021.7 | 5057.6 |
| 40° | 15393.5 | 11392.9 | 5535.3 | 4962.0 | 4938.1 | 4926.2 | 4878.4 | 4872.5 | 4848.6 | 4854.5 | 4866.5 |
| 42.5° | 15883.2 | 11512.3 | 5260.6 | 4842.6 | 4860.5 | 4884.4 | 4794.8 | 4723.1 | 4753.0 | 4693.3 | 4693.3 |
| 45° | 16402.7 | 11619.8 | 5015.7 | 4759.0 | 4741.1 | 4735.1 | 4663.5 | 4621.7 | 4597.8 | 4603.7 | 4657.4 |
| 47.5° | 17220.8 | 11775.1 | 4830.6 | 4645.5 | 4657.4 | 4567.9 | 4550.0 | 4496.2 | 4520.1 | 4556.0 | 4561.9 |
| 50° | 17799.9 | 12103.5 | 4687.4 | 4514.2 | 4556.0 | 4496.2 | 4388.8 | 4364.9 | 4364.9 | 4424.6 | 4412.7 |
| 52.5° | 18205.9 | 12563.2 | 4550.0 | 4370.9 | 4388.8 | 4341.0 | 4305.2 | 4251.5 | 4215.6 | 4299.2 | 4341.0 |
| 55° | 19447.9 | 13327.5 | 4514.2 | 4251.5 | 4245.5 | 4197.7 | 4132.0 | 4078.3 | 4060.4 | 4072.3 | 4155.9 |
| 57.5° | 19328.5 | 13088.7 | 4400.7 | 4042.5 | 4030.5 | 3964.8 | 3899.1 | 3881.3 | 3875.2 | 3887.2 | 3911.1 |
| 60° | 15692.1 | 9667.2 | 3929.0 | 3803.6 | 3785.7 | 3773.7 | 3708.1 | 3636.4 | 3600.6 | 3636.4 | 3606.6 |
| 62.5° | 10383.8 | 6472.7 | 3463.3 | 3517.0 | 3528.9 | 3499.1 | 3391.6 | 3319.9 | 3331.9 | 3373.7 | 3308.0 |
| 65° | 5099.4 | 3803.6 | 3140.8 | 3284.1 | 3296.0 | 3212.5 | 3110.9 | 3027.4 | 2985.6 | 3021.4 | 2991.5 |
| 67.5° | 2913.9 | 2907.9 | 2878.1 | 3027.4 | 3021.4 | 2937.8 | 2776.6 | 2705.0 | 2633.2 | 2645.2 | 2627.3 |
| 70° | 2472.0 | 2519.9 | 2579.5 | 2669.1 | 2663.1 | 2567.6 | 2376.5 | 2322.8 | 2221.3 | 2209.3 | 2179.5 |
| 72.5° | 1946.6 | 2030.2 | 2161.5 | 2227.2 | 2173.5 | 2054.0 | 1928.7 | 1839.1 | 1749.5 | 1695.8 | 1713.7 |
| 75° | 1445.0 | 1564.4 | 1636.1 | 1677.9 | 1594.3 | 1528.6 | 1427.1 | 1319.6 | 1212.2 | 1164.4 | 1146.5 |
| 77.5° | 1050.9 | 1086.7 | 1152.4 | 1182.3 | 1128.5 | 1062.8 | 1003.2 | 895.7 | 794.2 | 728.5 | 710.6 |
| 80° | 734.5 | 758.3 | 806.1 | 806.1 | 806.1 | 776.3 | 698.6 | 591.2 | 525.5 | 465.7 | 453.8 |
| 82.5° | 513.5 | 537.4 | 585.1 | 561.3 | 555.3 | 519.5 | 471.8 | 388.1 | 316.5 | 274.7 | 262.7 |
| 85° | 179.2 | 197.1 | 238.8 | 286.6 | 304.5 | 298.6 | 268.7 | 214.9 | 167.2 | 137.3 | 125.4 |
| 87.5° | 41.8 | 41.8 | 47.8 | 41.8 | 41.8 | 47.8 | 41.8 | 41.8 | 41.8 | 29.8 | 23.9 |
| 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)