

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: P647081

Luminaire Tested: **GALN-SA7C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30019.4 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

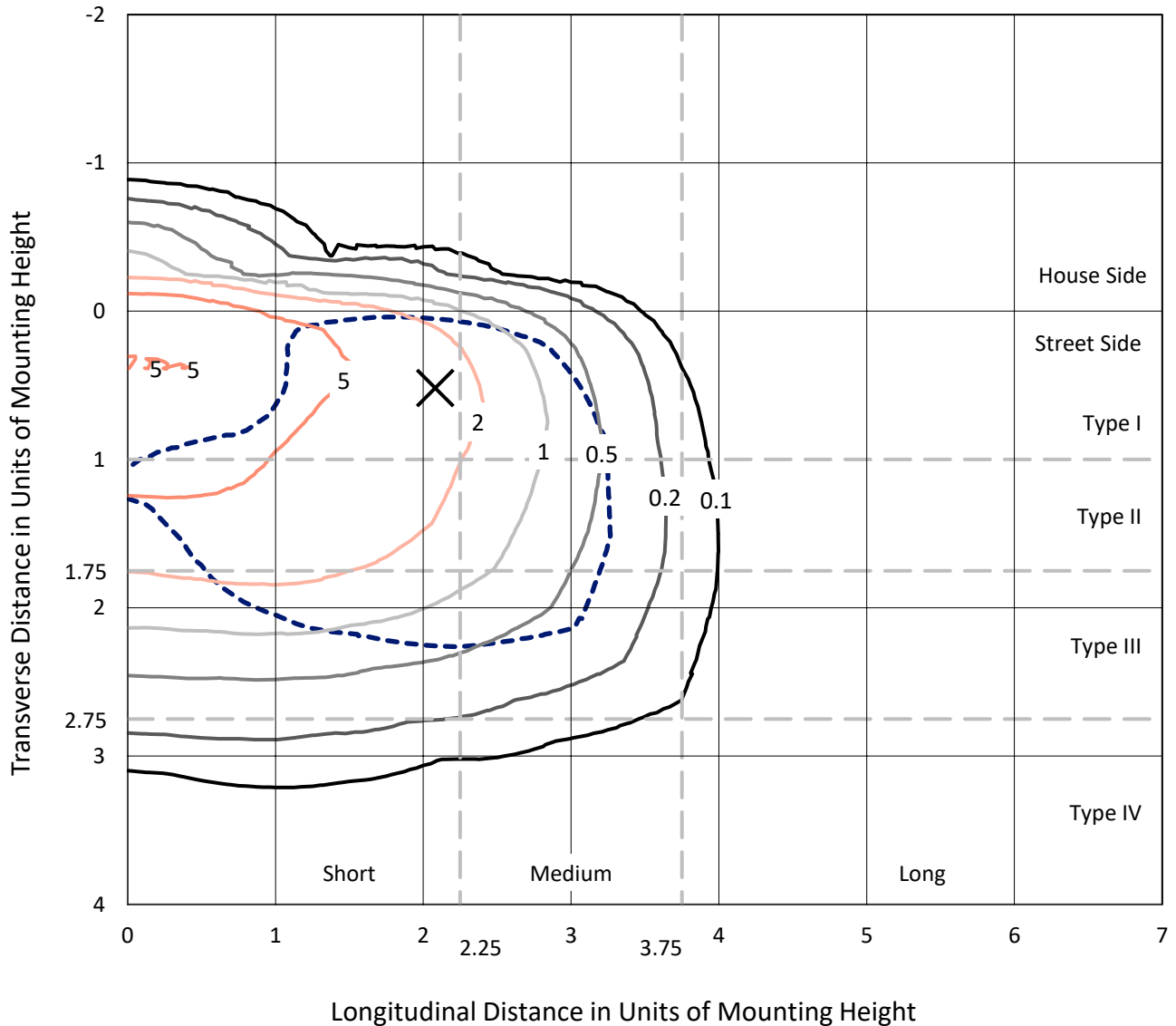
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647081
 CATALOG NUMBER: GALN-SA7C-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

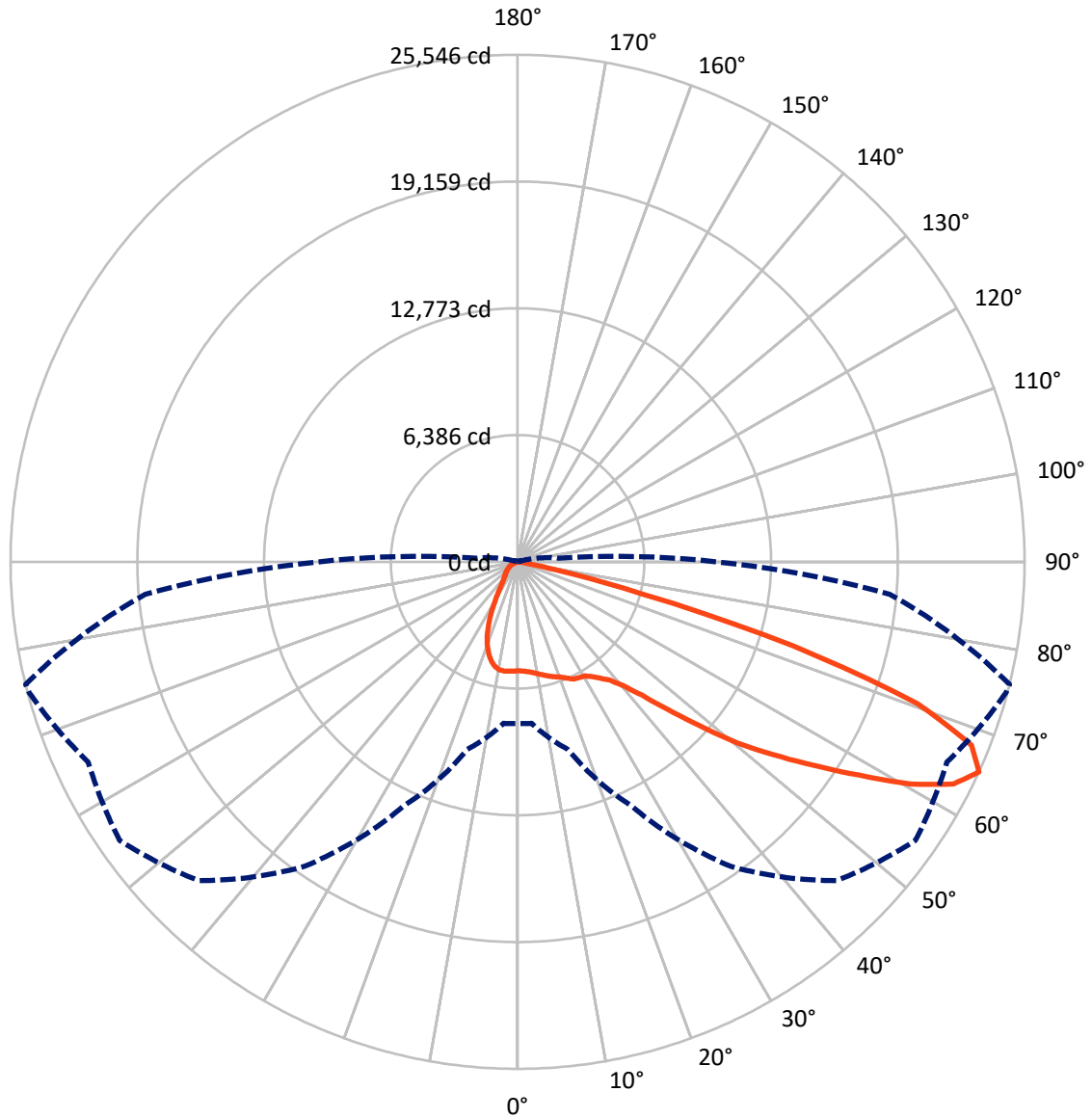
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P647081
CATALOG NUMBER: GALN-SA7C-835-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647081
 CATALOG NUMBER: GALN-SA7C-835-U-T3R-HSS

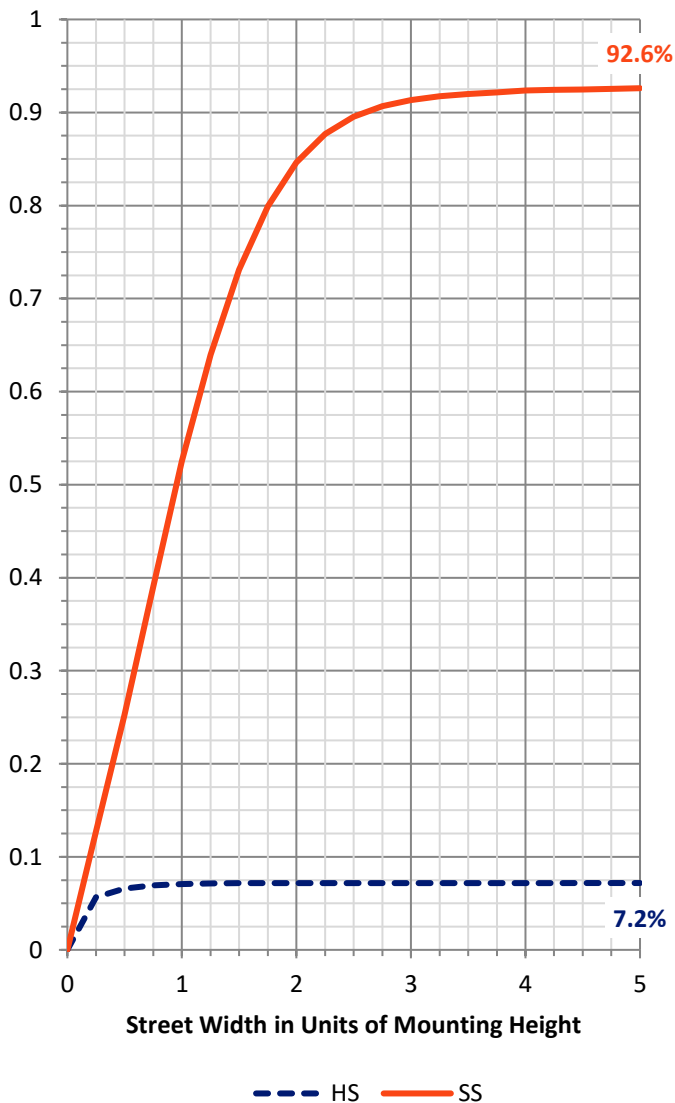
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2168.0 | 0.0 | 2168.0 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 27851.4 | 0.0 | 27851.4 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 30019.4 | 0.0 | 30019.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 452.4 | 1.5 |
| 10°-20° | 1007.2 | 3.4 |
| 20°-30° | 1623.1 | 5.4 |
| 30°-40° | 2822.1 | 9.4 |
| 40°-50° | 4663.4 | 15.5 |
| 50°-60° | 7204.0 | 24.0 |
| 60°-70° | 8797.1 | 29.3 |
| 70°-80° | 3338.7 | 11.1 |
| 80°-90° | 111.4 | 0.4 |
| 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° | 30019.4 | 100.0 |
| 0°-180° | 30019.4 | 100.0 |

Coefficient of Utilization

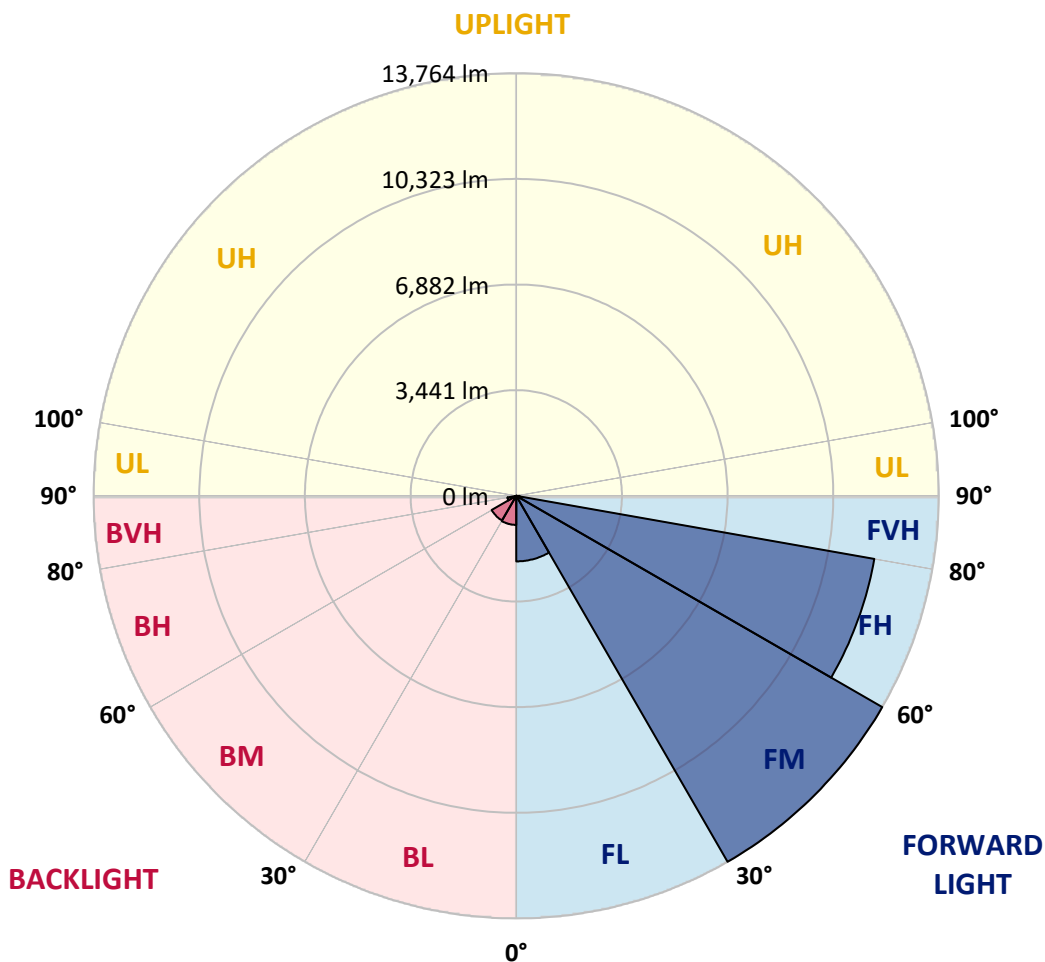


REPORT NUMBER: P647081
 CATALOG NUMBER: GALN-SA7C-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2135.5 | 7.1 | | | |
| FM (30°-60°) | 13764.4 | 45.9 | | | |
| FH (60°-80°) | 11841.6 | 39.4 | | | G4/12000 |
| FVH (80°-90°) | 109.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 947.2 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 925.2 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 294.2 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 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 III Short





REPORT NUMBER: P647081

CATALOG NUMBER: GALN-SA7C-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 |
| 2.5° | 5247.7 | 5249.9 | 5262.6 | 5294.4 | 5343.1 | 5383.4 | 5417.3 | 5472.5 | 5510.6 | 5514.8 | 5527.5 |
| 5° | 4885.4 | 4859.9 | 4885.4 | 4968.0 | 5042.2 | 5154.5 | 5292.3 | 5430.0 | 5553.0 | 5561.5 | 5620.8 |
| 7.5° | 4478.4 | 4499.6 | 4539.9 | 4624.6 | 4764.6 | 4936.2 | 5135.5 | 5381.3 | 5614.4 | 5635.6 | 5752.2 |
| 10° | 4065.1 | 4111.8 | 4177.5 | 4306.7 | 4501.7 | 4724.2 | 4995.5 | 5347.4 | 5711.9 | 5741.6 | 5943.0 |
| 12.5° | 3683.6 | 3704.8 | 3785.3 | 3959.2 | 4200.8 | 4514.5 | 4889.6 | 5328.3 | 5820.0 | 5856.1 | 6146.4 |
| 15° | 3391.1 | 3418.7 | 3488.7 | 3645.5 | 3914.6 | 4317.3 | 4802.7 | 5322.0 | 5926.0 | 5976.9 | 6349.9 |
| 17.5° | 3336.0 | 3353.0 | 3382.6 | 3488.7 | 3723.9 | 4160.5 | 4724.2 | 5319.9 | 6027.8 | 6089.2 | 6538.5 |
| 20° | 3562.8 | 3548.0 | 3518.3 | 3507.7 | 3637.0 | 4039.7 | 4667.1 | 5336.8 | 6125.3 | 6195.2 | 6737.7 |
| 22.5° | 4130.8 | 4149.9 | 3976.1 | 3770.5 | 3728.1 | 4020.6 | 4658.5 | 5417.3 | 6280.0 | 6362.6 | 6960.3 |
| 25° | 5336.8 | 5190.6 | 4919.3 | 4427.6 | 4056.6 | 4137.2 | 4753.9 | 5608.1 | 6460.1 | 6551.2 | 7161.6 |
| 27.5° | 6669.9 | 6625.4 | 6203.6 | 5394.0 | 4703.1 | 4383.0 | 4923.5 | 5754.3 | 6519.4 | 6612.7 | 7276.1 |
| 30° | 7979.8 | 8032.7 | 7549.5 | 6655.1 | 5642.0 | 4838.7 | 5082.5 | 5809.5 | 6572.4 | 6669.9 | 7422.4 |
| 32.5° | 9194.2 | 9257.8 | 8833.9 | 7948.0 | 6748.4 | 5627.2 | 5355.9 | 6023.5 | 6795.0 | 6894.6 | 7666.0 |
| 35° | 10150.1 | 10158.6 | 9838.6 | 9132.8 | 7956.5 | 6585.2 | 5947.2 | 6398.7 | 7095.9 | 7212.5 | 7924.7 |
| 37.5° | 11027.5 | 11014.9 | 10639.6 | 10031.4 | 8963.2 | 7536.8 | 6691.1 | 6831.0 | 7439.3 | 7560.1 | 8297.7 |
| 40° | 11678.2 | 11686.7 | 11565.8 | 10993.6 | 9902.1 | 8416.4 | 7280.3 | 7235.9 | 8015.8 | 8204.4 | 8840.2 |
| 42.5° | 12112.7 | 12191.2 | 12250.4 | 11960.1 | 11082.7 | 9499.4 | 8185.3 | 8102.7 | 9016.2 | 9173.0 | 9607.5 |
| 45° | 12464.5 | 12604.4 | 12901.1 | 12886.3 | 12216.5 | 10828.3 | 9427.3 | 9257.8 | 10434.1 | 10601.5 | 10584.6 |
| 47.5° | 12721.0 | 12863.0 | 13354.7 | 13651.4 | 13282.7 | 12116.9 | 10989.4 | 10843.1 | 12127.5 | 12309.8 | 11663.3 |
| 50° | 12852.4 | 13021.9 | 13649.3 | 14223.7 | 14115.6 | 13358.9 | 12769.7 | 12778.2 | 14172.8 | 14348.7 | 12913.9 |
| 52.5° | 12545.1 | 12765.5 | 13806.2 | 14840.4 | 15050.3 | 14548.0 | 14437.7 | 14717.5 | 15993.4 | 16143.9 | 14043.5 |
| 55° | 11563.7 | 11841.4 | 13592.1 | 15366.1 | 16133.3 | 15951.0 | 16332.5 | 16758.5 | 17983.6 | 18081.1 | 15202.9 |
| 57.5° | 10942.7 | 11237.4 | 12960.5 | 15813.2 | 17434.7 | 17714.4 | 18318.4 | 18630.0 | 20037.4 | 20285.3 | 16533.9 |
| 60° | 10419.2 | 10650.3 | 12441.2 | 15908.7 | 18757.2 | 19872.0 | 20459.1 | 20781.3 | 22572.2 | 22733.3 | 17998.4 |
| 62.5° | 9548.1 | 9813.1 | 11563.7 | 15243.1 | 19422.7 | 21599.4 | 22816.0 | 22671.8 | 24532.7 | 24645.1 | 18897.1 |
| 65° | 8147.2 | 8170.5 | 9783.4 | 13570.9 | 18736.0 | 22720.5 | 24471.3 | 23867.2 | 25469.5 | 25545.8 | 18827.2 |
| 67.5° | 6080.7 | 6305.4 | 7526.2 | 10667.2 | 15826.0 | 21762.5 | 25007.5 | 23899.0 | 24878.2 | 24666.2 | 17333.0 |
| 70° | 3916.7 | 4088.4 | 5101.6 | 7396.9 | 11411.1 | 18161.6 | 23229.3 | 22260.7 | 21834.7 | 21364.2 | 14187.6 |
| 72.5° | 1807.9 | 2028.3 | 3030.8 | 4226.2 | 6767.4 | 12937.2 | 18856.8 | 18085.3 | 15715.7 | 14554.3 | 9018.3 |
| 75° | 788.4 | 843.5 | 1496.3 | 2229.7 | 3172.8 | 6841.6 | 12432.7 | 11226.7 | 7098.1 | 6483.4 | 3609.5 |
| 77.5° | 481.2 | 517.2 | 784.2 | 1195.4 | 1246.2 | 2606.9 | 6697.5 | 4898.1 | 2193.7 | 1935.0 | 979.2 |
| 80° | 326.4 | 366.7 | 570.1 | 625.2 | 426.0 | 726.9 | 2513.7 | 1307.7 | 442.9 | 423.9 | 209.8 |
| 82.5° | 158.9 | 201.3 | 421.8 | 349.7 | 184.4 | 233.2 | 731.2 | 279.8 | 129.3 | 120.8 | 74.2 |
| 85° | 23.3 | 40.2 | 237.4 | 228.9 | 82.7 | 55.1 | 129.3 | 69.9 | 44.5 | 42.4 | 33.9 |
| 87.5° | 0.0 | 0.0 | 80.6 | 36.0 | 8.5 | 8.5 | 14.8 | 14.8 | 17.0 | 14.8 | 17.0 |
| 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: P647081

CATALOG NUMBER: GALN-SA7C-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 | 5491.5 |
| 2.5° | 5533.9 | 5544.5 | 5504.3 | 5447.0 | 5385.6 | 5324.1 | 5237.2 | 5158.8 | 5112.1 | 5139.7 | 5071.9 |
| 5° | 5633.5 | 5625.1 | 5519.1 | 5345.3 | 5114.2 | 4836.6 | 4561.1 | 4325.8 | 4249.5 | 4135.0 | 4122.3 |
| 7.5° | 5771.3 | 5748.0 | 5523.3 | 5124.8 | 4603.5 | 4082.1 | 3573.4 | 3236.4 | 3043.5 | 2880.3 | 2884.6 |
| 10° | 5964.2 | 5896.3 | 5474.6 | 4737.0 | 3878.6 | 3092.3 | 2443.7 | 1998.7 | 1805.8 | 1744.3 | 1695.6 |
| 12.5° | 6163.4 | 6032.0 | 5338.9 | 4213.5 | 3020.2 | 2113.1 | 1485.7 | 1214.4 | 1095.7 | 1057.6 | 1053.4 |
| 15° | 6341.4 | 6133.7 | 5101.6 | 3584.0 | 2195.8 | 1350.1 | 1013.1 | 924.1 | 909.2 | 911.3 | 909.2 |
| 17.5° | 6517.3 | 6214.3 | 4773.0 | 2916.4 | 1492.1 | 968.6 | 871.1 | 849.9 | 856.3 | 864.7 | 862.6 |
| 20° | 6663.6 | 6231.2 | 4353.4 | 2225.4 | 1055.5 | 849.9 | 818.1 | 813.9 | 820.2 | 826.6 | 826.6 |
| 22.5° | 6822.5 | 6244.0 | 3855.3 | 1540.9 | 862.6 | 790.6 | 773.6 | 773.6 | 782.1 | 790.6 | 792.7 |
| 25° | 6941.2 | 6174.0 | 3259.7 | 1106.4 | 760.9 | 733.4 | 724.8 | 726.9 | 735.5 | 739.7 | 737.6 |
| 27.5° | 6960.3 | 5976.9 | 2628.1 | 847.8 | 690.9 | 663.4 | 654.9 | 663.4 | 652.8 | 659.1 | 654.9 |
| 30° | 6977.2 | 5726.8 | 1988.0 | 714.3 | 627.3 | 585.0 | 572.2 | 559.5 | 551.1 | 540.4 | 538.3 |
| 32.5° | 7030.2 | 5432.1 | 1451.8 | 642.2 | 568.0 | 521.4 | 491.7 | 455.7 | 428.1 | 419.7 | 417.5 |
| 35° | 7053.6 | 5078.2 | 1066.1 | 585.0 | 515.1 | 464.2 | 411.2 | 360.3 | 320.0 | 305.2 | 315.8 |
| 37.5° | 7142.6 | 4734.9 | 826.6 | 542.6 | 468.4 | 404.8 | 337.0 | 273.4 | 235.3 | 226.8 | 231.0 |
| 40° | 7324.8 | 4361.9 | 693.0 | 506.5 | 428.1 | 349.7 | 267.1 | 205.6 | 180.2 | 171.7 | 169.5 |
| 42.5° | 7617.3 | 3991.0 | 616.8 | 472.6 | 387.9 | 294.6 | 209.8 | 161.1 | 139.9 | 133.5 | 133.5 |
| 45° | 7973.4 | 3634.8 | 563.8 | 436.6 | 345.5 | 237.4 | 165.3 | 129.3 | 116.6 | 112.4 | 112.4 |
| 47.5° | 8441.8 | 3323.3 | 519.3 | 400.6 | 298.9 | 188.6 | 133.5 | 112.4 | 103.8 | 105.9 | 108.1 |
| 50° | 8916.6 | 3092.3 | 470.5 | 360.3 | 245.9 | 154.7 | 114.5 | 99.6 | 97.5 | 99.6 | 99.6 |
| 52.5° | 9274.7 | 2956.6 | 404.8 | 305.2 | 192.9 | 129.3 | 101.7 | 93.3 | 91.1 | 86.9 | 86.9 |
| 55° | 9758.0 | 2926.9 | 322.1 | 248.0 | 152.6 | 108.1 | 91.1 | 84.8 | 78.5 | 74.2 | 72.0 |
| 57.5° | 10379.0 | 2960.9 | 248.0 | 192.9 | 118.7 | 89.0 | 80.6 | 69.9 | 61.5 | 53.0 | 53.0 |
| 60° | 10764.7 | 2884.6 | 192.9 | 148.4 | 86.9 | 72.0 | 61.5 | 50.9 | 40.2 | 33.9 | 31.8 |
| 62.5° | 10641.8 | 2562.4 | 152.6 | 110.2 | 61.5 | 53.0 | 40.2 | 33.9 | 23.3 | 17.0 | 14.8 |
| 65° | 10008.1 | 2068.6 | 122.9 | 76.3 | 44.5 | 31.8 | 21.2 | 21.2 | 10.6 | 2.1 | 0.0 |
| 67.5° | 8759.7 | 1532.3 | 97.5 | 50.9 | 25.4 | 14.8 | 10.6 | 6.3 | 0.0 | 0.0 | 0.0 |
| 70° | 7129.8 | 1106.4 | 76.3 | 31.8 | 14.8 | 10.6 | 4.2 | 2.1 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4527.1 | 633.7 | 59.4 | 19.1 | 10.6 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1750.7 | 248.0 | 40.2 | 12.7 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 496.0 | 116.6 | 23.3 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 129.3 | 50.9 | 12.7 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 61.5 | 21.2 | 4.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 36.0 | 8.5 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)