

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: P648616

Luminaire Tested: **GALN-SA8B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21484.7 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

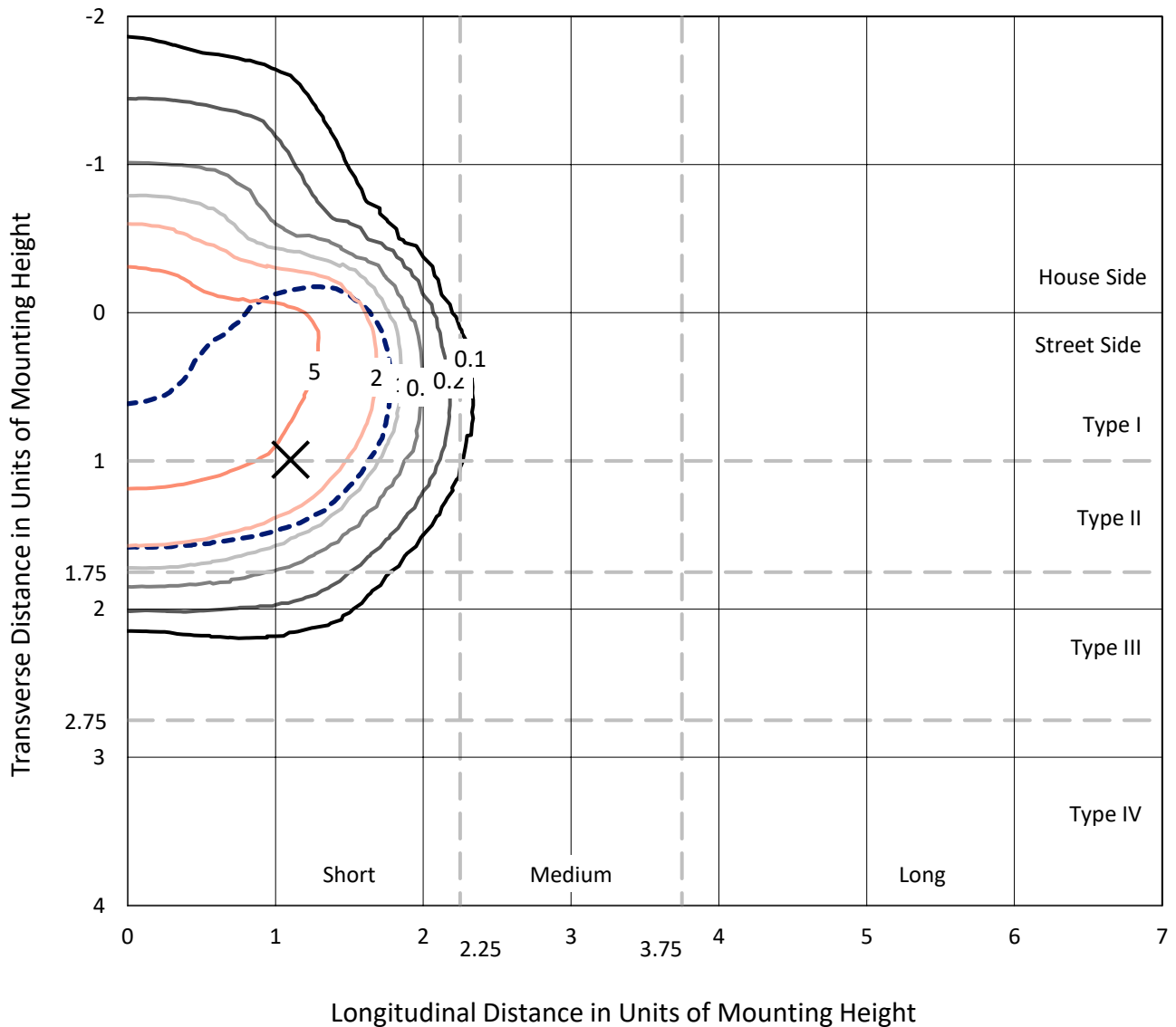
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

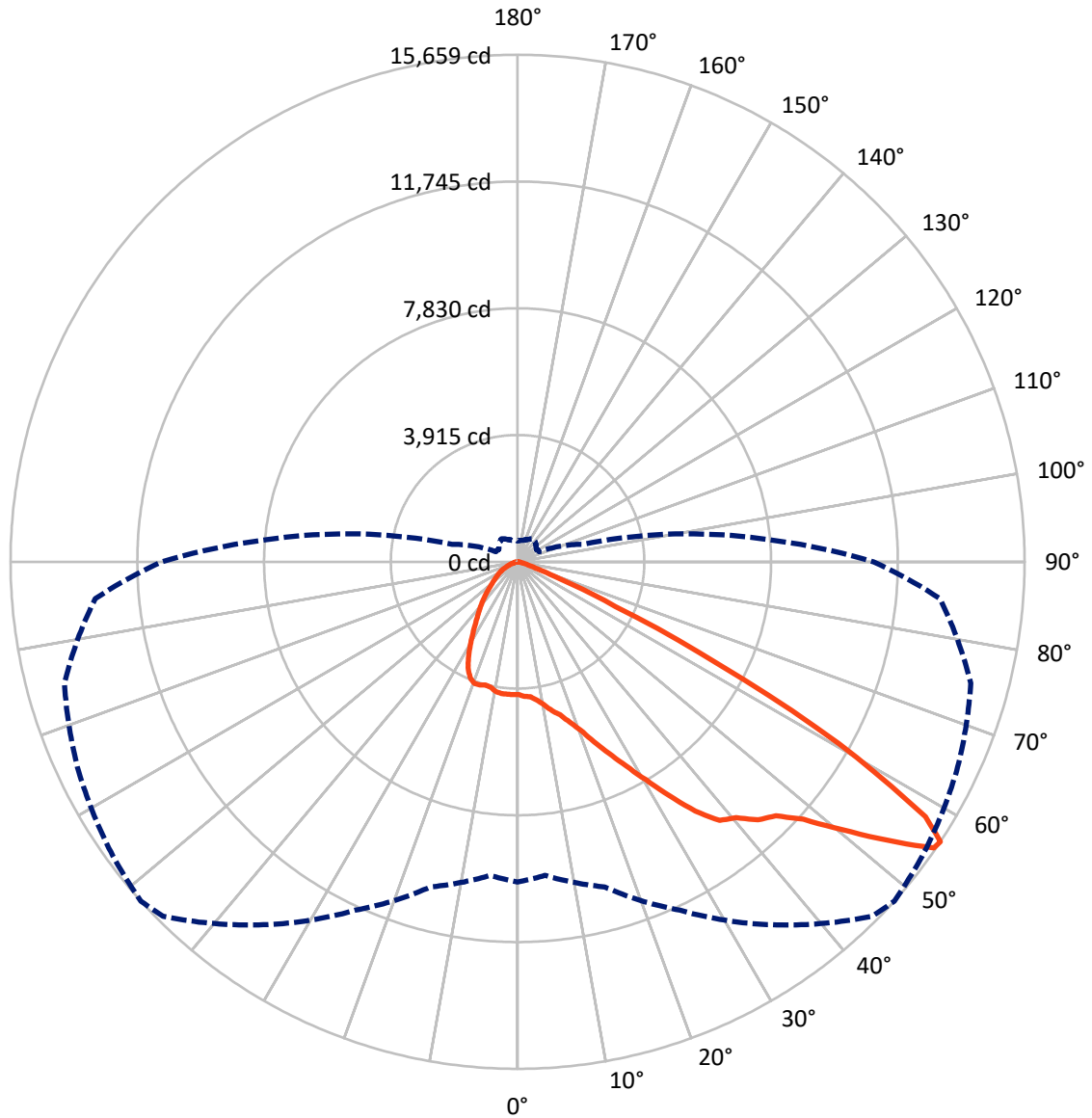
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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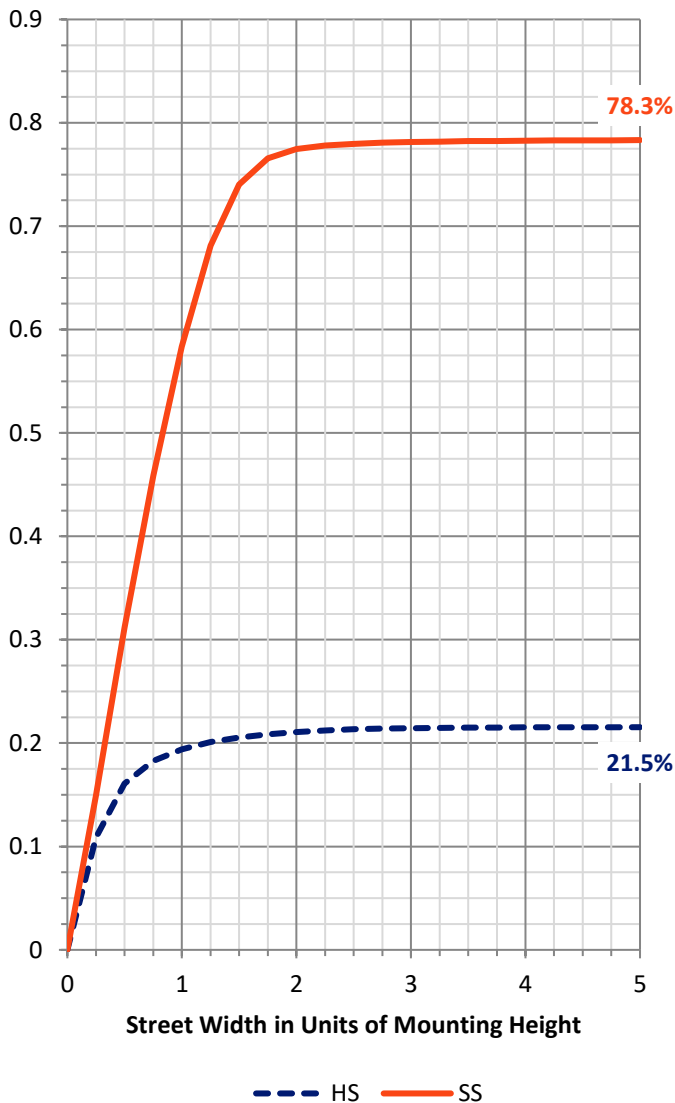
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4672.5 | 0.0 | 4672.5 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 16812.2 | 0.0 | 16812.2 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 21484.7 | 0.0 | 21484.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 399.7 | 1.9 |
| 10°-20° | 1277.5 | 5.9 |
| 20°-30° | 2317.1 | 10.8 |
| 30°-40° | 3639.7 | 16.9 |
| 40°-50° | 5309.7 | 24.7 |
| 50°-60° | 6397.1 | 29.8 |
| 60°-70° | 1873.0 | 8.7 |
| 70°-80° | 237.6 | 1.1 |
| 80°-90° | 33.3 | 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° | 21484.7 | 100.0 |
| 0°-180° | 21484.7 | 100.0 |

Coefficient of Utilization



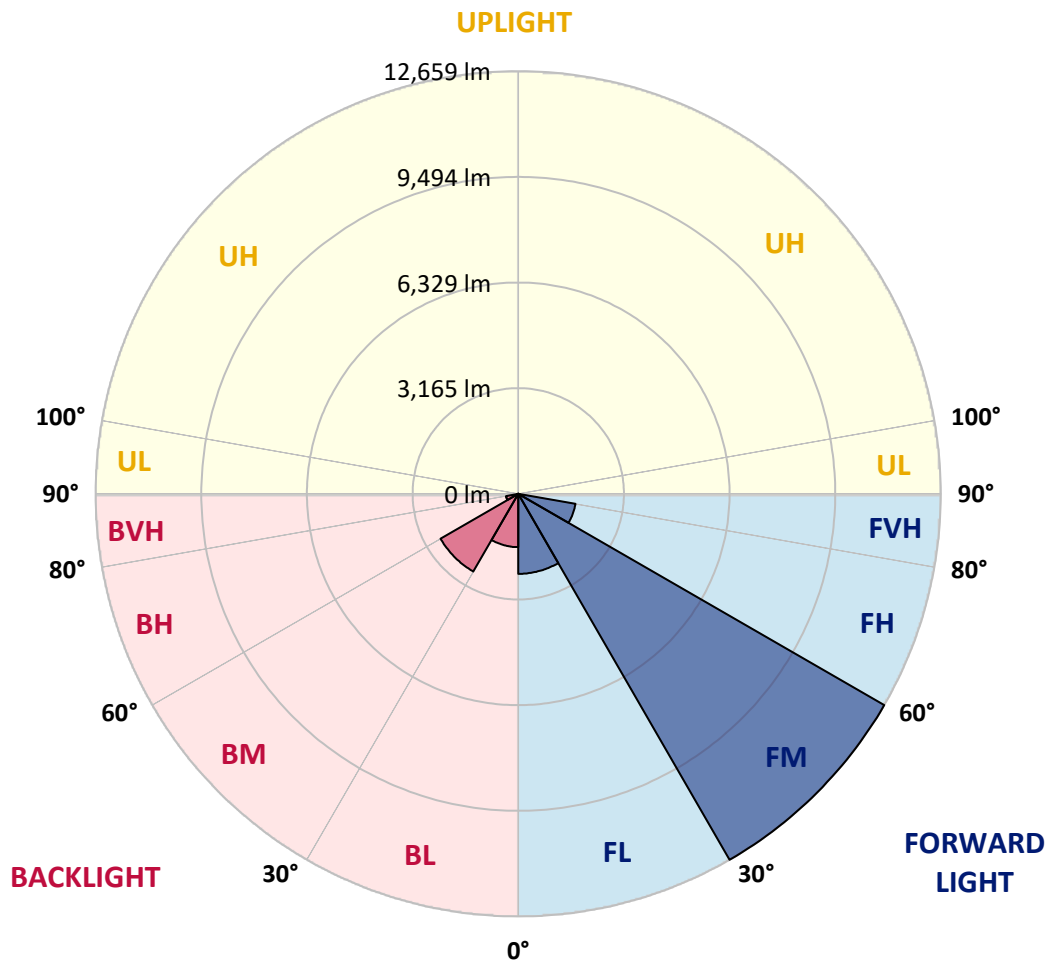
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2397.3 | 11.2 | | | |
| FM (30°-60°) | 12658.9 | 58.9 | | | |
| FH (60°-80°) | 1739.4 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 16.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1597.0 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2687.6 | 12.5 | B3/5000 | | |
| BH (60°-80°) | 371.3 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.6 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 |
| 2.5° | 4177.9 | 4158.4 | 4158.4 | 4127.0 | 4162.3 | 4146.6 | 4158.4 | 4119.2 | 4158.4 | 4099.7 | 4146.6 |
| 5° | 4197.5 | 4201.4 | 4185.8 | 4205.3 | 4205.3 | 4228.7 | 4189.7 | 4224.8 | 4244.4 | 4201.4 | 4181.8 |
| 7.5° | 4299.2 | 4307.0 | 4303.1 | 4287.5 | 4318.7 | 4314.8 | 4311.0 | 4283.6 | 4291.4 | 4275.7 | 4252.2 |
| 10° | 4498.7 | 4494.8 | 4514.3 | 4475.2 | 4451.7 | 4479.2 | 4487.0 | 4443.9 | 4412.6 | 4400.9 | 4326.5 |
| 12.5° | 4788.2 | 4741.2 | 4713.8 | 4674.7 | 4686.5 | 4647.3 | 4717.7 | 4643.4 | 4627.8 | 4557.4 | 4483.1 |
| 15° | 5022.9 | 5015.0 | 5019.0 | 4956.4 | 4886.0 | 4901.7 | 4901.7 | 4862.5 | 4839.0 | 4753.0 | 4647.3 |
| 17.5° | 5504.0 | 5339.7 | 5375.0 | 5296.8 | 5238.0 | 5234.1 | 5199.0 | 5206.7 | 5144.2 | 4964.2 | 4803.9 |
| 20° | 5879.6 | 5809.2 | 5754.4 | 5621.4 | 5531.4 | 5558.8 | 5543.2 | 5504.0 | 5484.5 | 5249.8 | 5022.9 |
| 22.5° | 6216.0 | 6239.5 | 6149.5 | 6114.3 | 5989.2 | 6000.8 | 6032.2 | 5997.0 | 5848.3 | 5605.7 | 5269.4 |
| 25° | 6689.4 | 6662.0 | 6540.7 | 6497.6 | 6380.4 | 6423.3 | 6544.6 | 6517.2 | 6423.3 | 5985.3 | 5461.0 |
| 27.5° | 7248.8 | 7154.9 | 7178.4 | 6982.8 | 6869.3 | 6990.5 | 7135.3 | 7272.3 | 7006.2 | 6431.2 | 5687.9 |
| 30° | 7643.9 | 7546.1 | 7538.3 | 7530.4 | 7503.0 | 7643.9 | 7812.1 | 7937.3 | 7722.1 | 6877.2 | 6063.5 |
| 32.5° | 7839.5 | 7863.0 | 7929.4 | 7906.0 | 8144.6 | 8434.1 | 8610.1 | 8790.0 | 8520.1 | 7604.7 | 6560.3 |
| 35° | 8359.8 | 8211.1 | 8359.8 | 8375.4 | 8621.8 | 9236.0 | 9459.0 | 9889.3 | 9822.8 | 8633.6 | 7166.6 |
| 37.5° | 8664.9 | 8653.2 | 8672.7 | 8821.4 | 9060.0 | 9818.9 | 10135.8 | 10468.2 | 10343.1 | 9251.7 | 7921.6 |
| 40° | 9169.6 | 9200.8 | 9196.9 | 9310.3 | 9572.4 | 10257.1 | 10386.1 | 10656.1 | 10667.7 | 10108.4 | 9032.6 |
| 42.5° | 9979.3 | 9854.1 | 9771.9 | 9889.3 | 10257.1 | 10636.5 | 10894.7 | 10839.9 | 11227.2 | 11149.0 | 10460.4 |
| 45° | 10706.9 | 10781.2 | 10659.9 | 10855.6 | 10988.5 | 11192.0 | 11184.1 | 11301.5 | 11794.4 | 12166.0 | 11536.3 |
| 47.5° | 11387.6 | 11434.5 | 11493.2 | 11626.2 | 11915.7 | 11946.9 | 11880.5 | 11829.6 | 12510.3 | 12893.7 | 12369.4 |
| 50° | 11794.4 | 11837.5 | 12111.3 | 12349.9 | 12889.7 | 12960.1 | 12999.3 | 12870.2 | 13331.8 | 13374.8 | 13155.7 |
| 52.5° | 11684.9 | 11731.8 | 12115.2 | 12901.5 | 13762.1 | 14407.6 | 14290.2 | 14071.1 | 14043.7 | 14212.0 | 13883.4 |
| 55° | 10714.7 | 10671.7 | 11199.8 | 12424.3 | 14035.9 | 15585.1 | 15600.7 | 15369.9 | 14927.8 | 14814.4 | 13773.8 |
| 56° | 9889.3 | 9721.1 | 10393.9 | 11872.6 | 13683.9 | 15483.4 | 15659.4 | 15413.0 | 14998.3 | 14489.7 | 13097.1 |
| 57.5° | 8101.5 | 8262.0 | 8930.9 | 10155.4 | 12467.2 | 14751.8 | 14853.5 | 14794.9 | 14481.9 | 13629.1 | 11524.5 |
| 60° | 4467.4 | 4749.1 | 5339.7 | 6838.0 | 8876.1 | 11321.1 | 11403.2 | 11880.5 | 11939.2 | 10437.0 | 7929.4 |
| 62.5° | 1897.3 | 1866.0 | 2480.2 | 3583.3 | 5054.2 | 6834.1 | 6986.7 | 7475.7 | 7565.7 | 6016.5 | 3978.4 |
| 65° | 770.6 | 813.7 | 1122.7 | 1803.4 | 2671.8 | 3113.9 | 3329.0 | 3489.4 | 3786.7 | 2484.1 | 1467.0 |
| 67.5° | 508.6 | 504.6 | 661.1 | 1028.9 | 1439.5 | 1388.7 | 1388.7 | 1467.0 | 1357.4 | 1013.2 | 633.8 |
| 70° | 363.8 | 375.5 | 473.3 | 712.0 | 895.8 | 665.0 | 637.7 | 610.3 | 692.4 | 668.9 | 512.5 |
| 72.5° | 238.7 | 254.2 | 316.9 | 426.4 | 465.5 | 363.8 | 363.8 | 438.2 | 571.1 | 539.9 | 418.6 |
| 75° | 156.4 | 160.4 | 195.6 | 246.5 | 230.8 | 187.8 | 207.3 | 293.4 | 414.7 | 399.0 | 297.3 |
| 77.5° | 105.6 | 109.5 | 133.0 | 160.4 | 129.1 | 105.6 | 113.5 | 148.7 | 203.4 | 203.4 | 156.4 |
| 80° | 39.2 | 43.1 | 54.7 | 50.8 | 58.6 | 74.3 | 82.1 | 101.7 | 121.3 | 121.3 | 105.6 |
| 82.5° | 0.0 | 3.9 | 11.7 | 27.4 | 43.1 | 58.6 | 66.5 | 78.2 | 90.0 | 101.7 | 97.8 |
| 85° | 0.0 | 3.9 | 11.7 | 19.6 | 31.3 | 35.2 | 39.2 | 27.4 | 23.5 | 23.5 | 19.6 |
| 87.5° | 0.0 | 0.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 7.8 | 3.9 | 3.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA8B-835-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 | 4103.6 |
| 2.5° | 4103.6 | 4099.7 | 4099.7 | 4088.0 | 4111.5 | 4099.7 | 4107.5 | 4103.6 | 4052.7 | 4091.9 | 4064.5 |
| 5° | 4146.6 | 4174.0 | 4131.0 | 4123.1 | 4091.9 | 4103.6 | 4103.6 | 4064.5 | 4099.7 | 4095.8 | 4088.0 |
| 7.5° | 4256.2 | 4209.3 | 4162.3 | 4115.3 | 4107.5 | 4095.8 | 4052.7 | 4037.1 | 4064.5 | 4033.2 | 4080.1 |
| 10° | 4303.1 | 4311.0 | 4240.5 | 4177.9 | 4119.2 | 4037.1 | 3978.4 | 3943.2 | 3900.2 | 3947.1 | 3974.5 |
| 12.5° | 4518.2 | 4440.0 | 4318.7 | 4220.9 | 4021.4 | 3939.3 | 3880.6 | 3865.0 | 3939.3 | 3954.9 | 3927.5 |
| 15° | 4592.6 | 4580.9 | 4424.3 | 4205.3 | 3998.0 | 3900.2 | 3911.9 | 3880.6 | 3888.5 | 3849.3 | 3857.1 |
| 17.5° | 4745.1 | 4612.1 | 4428.3 | 4154.4 | 3994.1 | 3970.6 | 3900.2 | 3775.0 | 3704.6 | 3673.3 | 3700.7 |
| 20° | 4913.3 | 4784.3 | 4518.2 | 4174.0 | 4029.2 | 3966.7 | 3735.8 | 3583.3 | 3438.5 | 3360.3 | 3364.2 |
| 22.5° | 5062.0 | 4901.7 | 4479.2 | 4181.8 | 4060.6 | 3802.4 | 3524.6 | 3223.4 | 3043.4 | 2922.2 | 2926.1 |
| 25° | 5242.0 | 5015.0 | 4494.8 | 4197.5 | 3978.4 | 3540.3 | 3141.2 | 2847.8 | 2632.7 | 2550.5 | 2577.9 |
| 27.5° | 5343.7 | 5085.5 | 4580.9 | 4232.7 | 3763.3 | 3168.6 | 2738.3 | 2464.5 | 2339.3 | 2300.2 | 2296.3 |
| 30° | 5648.8 | 5242.0 | 4686.5 | 4162.3 | 3403.4 | 2769.6 | 2370.6 | 2202.4 | 2081.1 | 2045.9 | 2053.7 |
| 32.5° | 6102.5 | 5527.5 | 4823.4 | 3978.4 | 3035.6 | 2413.7 | 2132.0 | 2006.8 | 1893.4 | 1826.9 | 1819.1 |
| 35° | 6482.1 | 6016.5 | 4968.1 | 3692.9 | 2609.3 | 2139.8 | 1963.8 | 1807.3 | 1635.2 | 1560.8 | 1541.3 |
| 37.5° | 7205.7 | 6568.1 | 4936.8 | 3262.5 | 2202.4 | 1936.4 | 1783.8 | 1592.2 | 1443.5 | 1341.7 | 1330.1 |
| 40° | 8168.1 | 7213.5 | 4784.3 | 2738.3 | 1901.2 | 1756.4 | 1592.2 | 1408.3 | 1224.5 | 1138.4 | 1130.6 |
| 42.5° | 9337.7 | 8003.7 | 4506.6 | 2206.3 | 1600.0 | 1576.5 | 1427.9 | 1216.6 | 1052.3 | 989.7 | 993.6 |
| 45° | 10288.3 | 8680.5 | 4224.8 | 1772.1 | 1377.0 | 1400.5 | 1271.4 | 1071.8 | 958.4 | 907.6 | 907.6 |
| 47.5° | 11133.3 | 9138.2 | 3919.7 | 1463.0 | 1169.6 | 1224.5 | 1111.0 | 993.6 | 895.8 | 856.7 | 848.9 |
| 50° | 11946.9 | 9603.7 | 3614.6 | 1185.3 | 997.5 | 1052.3 | 1040.6 | 946.6 | 868.4 | 821.5 | 825.4 |
| 52.5° | 12455.5 | 9678.0 | 3227.3 | 970.1 | 872.3 | 935.0 | 974.1 | 888.0 | 801.9 | 774.5 | 766.7 |
| 55° | 11833.6 | 8719.6 | 2503.6 | 798.0 | 739.4 | 821.5 | 895.8 | 798.0 | 731.6 | 684.6 | 680.7 |
| 56° | 10996.4 | 7796.4 | 2092.9 | 735.5 | 700.2 | 790.2 | 868.4 | 762.8 | 688.5 | 661.1 | 641.6 |
| 57.5° | 9310.3 | 6380.4 | 1545.2 | 653.3 | 649.3 | 735.5 | 825.4 | 727.6 | 641.6 | 618.1 | 618.1 |
| 60° | 5805.2 | 3591.2 | 935.0 | 547.6 | 563.3 | 653.3 | 743.3 | 649.3 | 571.1 | 571.1 | 582.9 |
| 62.5° | 2644.4 | 1494.4 | 567.2 | 465.5 | 485.1 | 563.3 | 661.1 | 586.8 | 543.8 | 586.8 | 594.6 |
| 65° | 899.7 | 645.4 | 410.8 | 371.6 | 383.4 | 465.5 | 567.2 | 594.6 | 590.7 | 618.1 | 633.8 |
| 67.5° | 504.6 | 414.7 | 344.3 | 309.1 | 301.2 | 344.3 | 465.5 | 594.6 | 571.1 | 559.4 | 567.2 |
| 70° | 426.4 | 352.0 | 305.1 | 273.8 | 262.1 | 277.7 | 359.9 | 449.8 | 402.9 | 391.2 | 383.4 |
| 72.5° | 344.3 | 293.4 | 266.0 | 246.5 | 211.3 | 179.9 | 164.3 | 172.1 | 191.7 | 203.4 | 223.0 |
| 75° | 242.6 | 223.0 | 223.0 | 199.5 | 152.5 | 113.5 | 90.0 | 74.3 | 50.8 | 35.2 | 39.2 |
| 77.5° | 136.9 | 136.9 | 140.9 | 121.3 | 97.8 | 74.3 | 54.7 | 39.2 | 19.6 | 7.8 | 3.9 |
| 80° | 93.9 | 101.7 | 109.5 | 97.8 | 82.1 | 66.5 | 47.0 | 27.4 | 11.7 | 0.0 | 0.0 |
| 82.5° | 93.9 | 105.6 | 113.5 | 97.8 | 82.1 | 62.6 | 47.0 | 27.4 | 11.7 | 3.9 | 0.0 |
| 85° | 19.6 | 23.5 | 27.4 | 31.3 | 47.0 | 47.0 | 35.2 | 23.5 | 11.7 | 3.9 | 0.0 |
| 87.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 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)