

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: P453364

Luminaire Tested: **GALN-SA4B-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14264 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

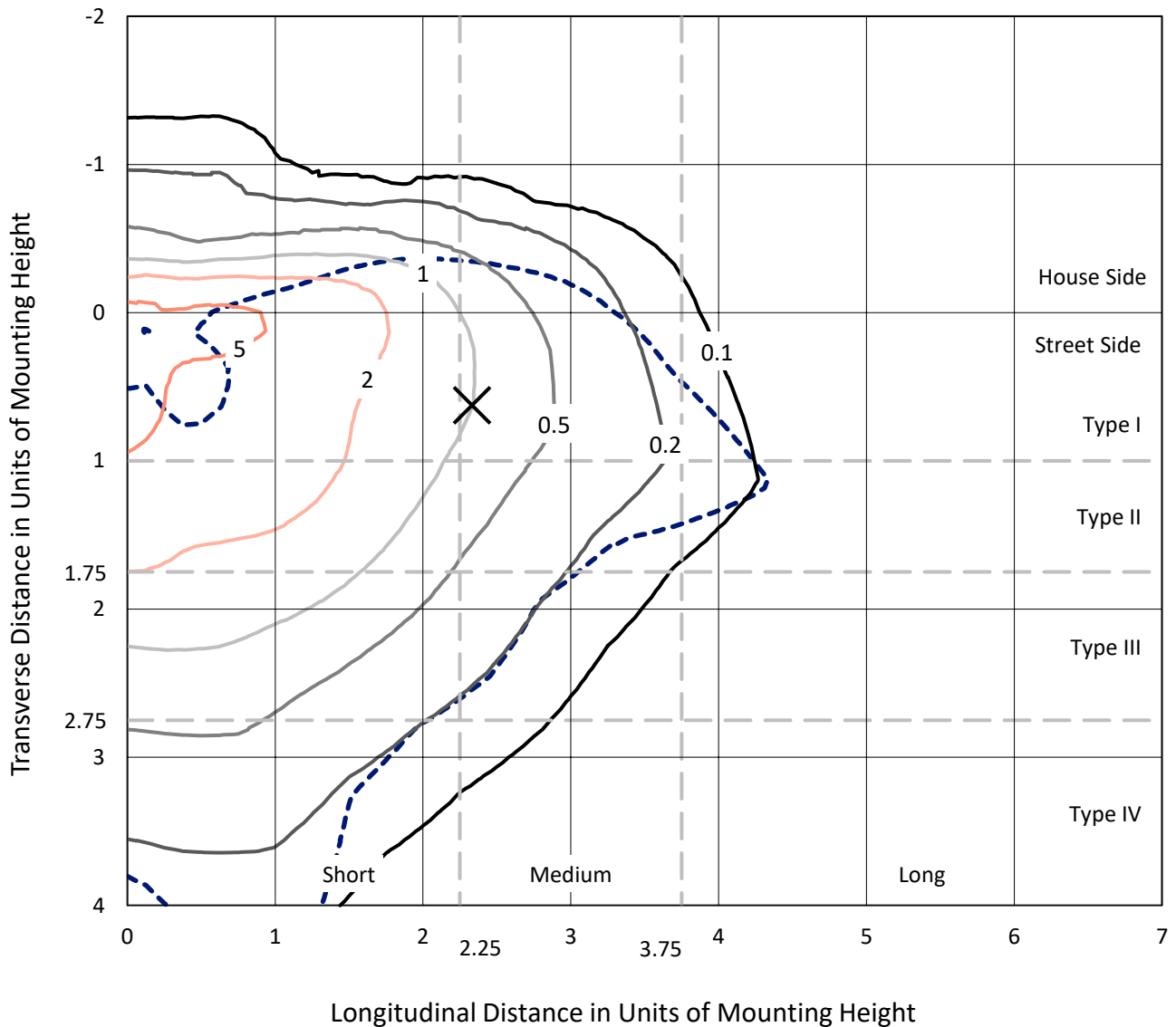
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453364
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Iso-Footcandle Lines of Horizontal Illumination

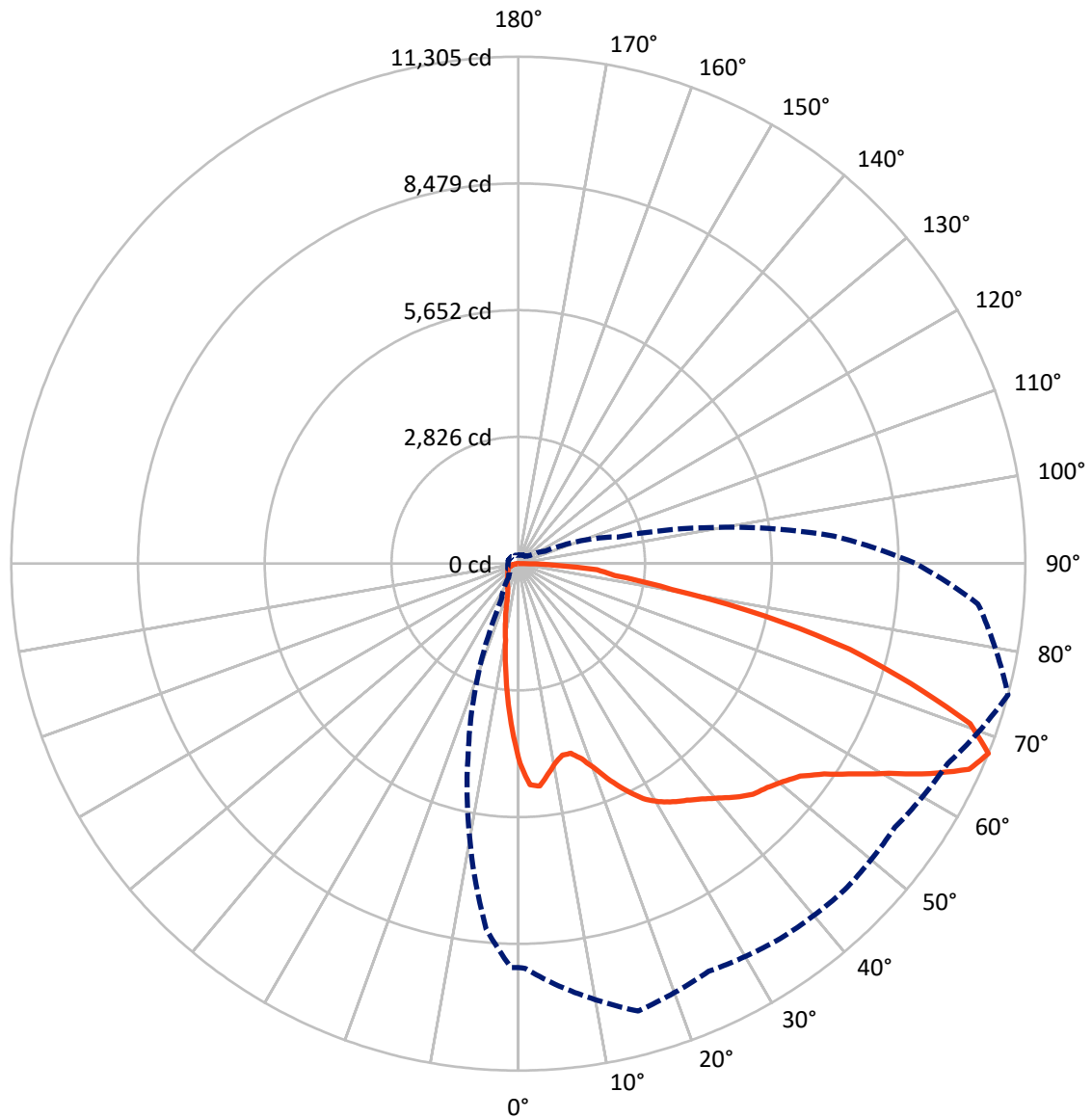
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2410.9 | 0.0 | 2410.9 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 11853.1 | 0.0 | 11853.1 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 14264.0 | 0.0 | 14264.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 338.0 | 2.4 |
| 10°-20° | 704.9 | 4.9 |
| 20°-30° | 1014.4 | 7.1 |
| 30°-40° | 1461.0 | 10.2 |
| 40°-50° | 2052.3 | 14.4 |
| 50°-60° | 2862.3 | 20.1 |
| 60°-70° | 3403.0 | 23.9 |
| 70°-80° | 2004.2 | 14.1 |
| 80°-90° | 423.8 | 3.0 |
| 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° | 14264.0 | 100.0 |
| 0°-180° | 14264.0 | 100.0 |

Coefficient of Utilization



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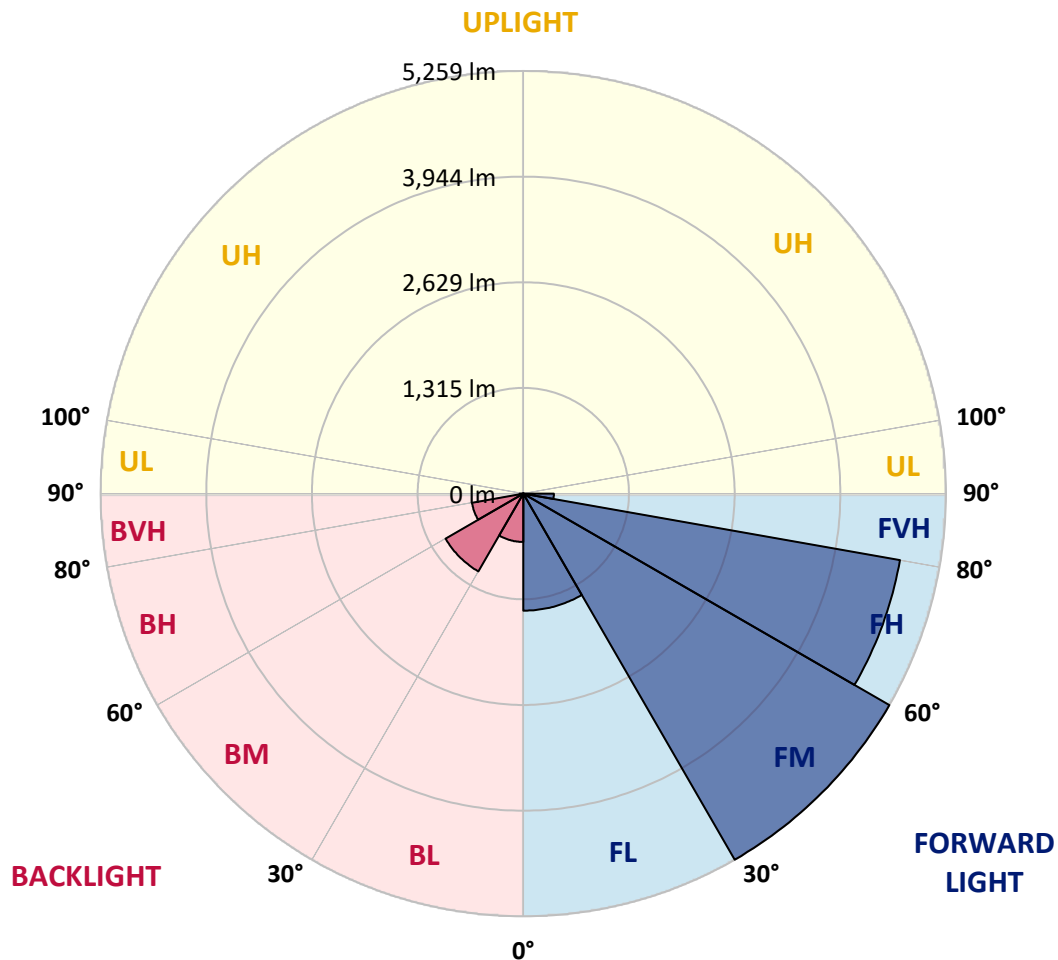
CATALOG NUMBER: GALN-SA4B-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1456.0 | 10.2 | | | |
| FM | (30°-60°) | 5258.6 | 36.9 | | | |
| FH | (60°-80°) | 4758.5 | 33.4 | | | G2/5000 |
| FVH | (80°-90°) | 380.0 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 601.4 | 4.2 | B2/1000 | | |
| BM | (30°-60°) | 1117.0 | 7.8 | B2/2500 | | |
| BH | (60°-80°) | 648.7 | 4.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 43.8 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





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CATALOG NUMBER: GALN-SA4B-827-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 |
| 2.5° | 4804.9 | 4811.3 | 4852.5 | 4972.3 | 5054.6 | 5084.8 | 5105.8 | 5066.5 | 5028.1 | 4934.8 | 4793.9 |
| 5° | 4790.3 | 4827.8 | 4934.8 | 5203.7 | 5415.9 | 5507.4 | 5534.8 | 5416.8 | 5222.0 | 4982.4 | 4694.2 |
| 7.5° | 4510.4 | 4560.7 | 4725.3 | 5176.3 | 5550.4 | 5764.4 | 5736.1 | 5522.9 | 5171.7 | 4744.5 | 4342.1 |
| 10° | 4178.3 | 4234.1 | 4432.6 | 4977.8 | 5459.8 | 5754.4 | 5754.4 | 5494.6 | 5028.1 | 4520.4 | 4056.7 |
| 12.5° | 3914.9 | 3973.5 | 4200.3 | 4773.8 | 5271.4 | 5550.4 | 5597.0 | 5373.9 | 4924.7 | 4378.7 | 3869.2 |
| 15° | 3828.0 | 3884.7 | 4128.9 | 4650.3 | 5072.0 | 5242.1 | 5257.7 | 5184.5 | 4874.4 | 4388.7 | 3860.9 |
| 17.5° | 3935.9 | 4009.1 | 4256.1 | 4686.9 | 4889.1 | 4899.1 | 4911.0 | 4968.6 | 4879.9 | 4572.6 | 4027.4 |
| 20° | 4247.9 | 4326.5 | 4584.5 | 4804.9 | 4729.0 | 4624.7 | 4631.1 | 4779.3 | 4944.9 | 4876.3 | 4425.3 |
| 22.5° | 4697.9 | 4766.5 | 5030.8 | 5012.5 | 4661.3 | 4446.3 | 4401.5 | 4608.3 | 5040.9 | 5254.9 | 4848.8 |
| 25° | 5183.6 | 5264.1 | 5567.8 | 5320.8 | 4680.5 | 4340.2 | 4311.9 | 4507.6 | 5140.6 | 5608.9 | 5338.2 |
| 27.5° | 5739.7 | 5818.4 | 6058.0 | 5631.8 | 4781.1 | 4332.0 | 4298.2 | 4498.5 | 5230.2 | 5936.4 | 5805.6 |
| 30° | 6153.2 | 6225.4 | 6388.3 | 5893.4 | 4904.6 | 4386.9 | 4344.8 | 4570.7 | 5307.1 | 6160.5 | 6261.1 |
| 32.5° | 6477.9 | 6552.9 | 6641.6 | 6056.2 | 5067.4 | 4486.6 | 4408.8 | 4702.5 | 5407.7 | 6331.5 | 6598.6 |
| 35° | 6816.3 | 6905.1 | 6898.7 | 6200.7 | 5219.3 | 4601.8 | 4525.9 | 4892.7 | 5565.9 | 6480.6 | 7026.7 |
| 37.5° | 7245.3 | 7281.0 | 7235.3 | 6330.6 | 5401.3 | 4809.5 | 4767.4 | 5175.4 | 5791.0 | 6660.8 | 7527.1 |
| 40° | 7680.7 | 7752.1 | 7517.0 | 6488.0 | 5622.7 | 5200.1 | 5195.5 | 5593.4 | 6058.0 | 6872.1 | 8011.8 |
| 42.5° | 8053.9 | 8114.3 | 7780.4 | 6625.2 | 5890.7 | 5676.6 | 5711.4 | 6154.1 | 6408.4 | 7117.3 | 8401.5 |
| 45° | 8334.7 | 8388.7 | 8023.7 | 6757.8 | 6243.7 | 6227.3 | 6432.2 | 6755.0 | 6850.2 | 7337.7 | 8630.2 |
| 47.5° | 8573.5 | 8625.6 | 8193.0 | 6959.0 | 6680.0 | 6884.9 | 7241.7 | 7381.6 | 7227.9 | 7463.9 | 8886.3 |
| 50° | 8774.7 | 8790.3 | 8309.1 | 7198.7 | 7221.5 | 7690.8 | 8036.5 | 8127.1 | 7601.1 | 7645.1 | 9108.6 |
| 52.5° | 8984.2 | 8964.0 | 8509.4 | 7500.5 | 7807.0 | 8455.5 | 8707.0 | 8801.2 | 7958.8 | 7868.2 | 9432.4 |
| 55° | 9453.4 | 9472.6 | 8958.6 | 7881.0 | 8398.8 | 9206.4 | 9537.6 | 9447.0 | 8354.9 | 8278.9 | 9844.0 |
| 57.5° | 10020.5 | 10004.1 | 9590.6 | 8476.5 | 9001.5 | 9905.3 | 10152.2 | 10006.8 | 8883.6 | 8843.3 | 10261.1 |
| 60° | 10241.0 | 10262.9 | 10119.3 | 9116.8 | 9596.1 | 10517.2 | 10769.7 | 10543.7 | 9517.4 | 9499.1 | 10575.7 |
| 62.5° | 10019.6 | 10143.1 | 10240.0 | 9686.7 | 10102.8 | 10967.2 | 11217.9 | 10959.9 | 10178.8 | 10311.4 | 10796.2 |
| 65° | 9578.7 | 9605.2 | 9935.5 | 10169.6 | 10347.1 | 11041.3 | 11172.1 | 11034.9 | 10731.2 | 11051.4 | 10786.1 |
| 67.5° | 9006.1 | 9029.0 | 9415.9 | 10327.9 | 10032.4 | 10199.8 | 10291.3 | 10251.0 | 10560.2 | 11304.8 | 10289.4 |
| 70° | 8461.0 | 8442.7 | 8851.5 | 9924.5 | 8733.5 | 8479.3 | 8555.2 | 8428.9 | 9112.2 | 10685.5 | 9315.3 |
| 72.5° | 7399.9 | 7465.8 | 7904.8 | 8803.1 | 6915.1 | 6501.7 | 6667.2 | 6340.7 | 7008.4 | 9151.6 | 7560.9 |
| 75° | 5796.4 | 5812.0 | 6544.7 | 7388.0 | 5216.5 | 4564.3 | 4788.4 | 4652.2 | 5368.4 | 7634.1 | 5221.1 |
| 77.5° | 4013.7 | 3978.9 | 4766.5 | 5642.8 | 3720.1 | 3341.4 | 3345.1 | 3280.1 | 3748.4 | 5620.8 | 3547.2 |
| 80° | 2549.3 | 2496.2 | 2983.7 | 3485.9 | 2556.6 | 2734.9 | 2645.3 | 2642.6 | 2440.4 | 3467.6 | 2145.0 |
| 82.5° | 1377.5 | 1436.1 | 1885.2 | 2185.2 | 1834.0 | 2113.9 | 1937.3 | 1880.6 | 1674.8 | 2170.6 | 1372.0 |
| 85° | 627.5 | 682.4 | 1005.3 | 1486.4 | 1393.1 | 1408.6 | 941.2 | 1110.4 | 1385.8 | 1762.6 | 732.7 |
| 87.5° | 61.3 | 78.7 | 207.6 | 701.6 | 475.6 | 375.0 | 139.9 | 269.8 | 348.5 | 626.6 | 58.5 |
| 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-SA4B-827-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 |
| 2.5° | 4736.3 | 4688.7 | 4526.8 | 4393.3 | 4251.5 | 4143.6 | 4002.7 | 3908.5 | 3843.6 | 3745.7 | 3733.8 |
| 5° | 4518.6 | 4402.4 | 4120.7 | 3833.5 | 3585.6 | 3399.0 | 3209.7 | 3035.9 | 2933.4 | 2901.4 | 2860.3 |
| 7.5° | 4151.8 | 3956.1 | 3593.9 | 3264.6 | 2980.1 | 2702.0 | 2488.0 | 2336.1 | 2234.6 | 2175.2 | 2103.8 |
| 10° | 3850.0 | 3623.1 | 3182.2 | 2778.9 | 2544.7 | 2371.8 | 2183.4 | 2020.6 | 1895.3 | 1788.2 | 1729.7 |
| 12.5° | 3646.9 | 3390.8 | 2895.0 | 2567.6 | 2386.4 | 2202.6 | 1982.2 | 1799.2 | 1614.4 | 1492.8 | 1440.7 |
| 15° | 3585.6 | 3314.9 | 2806.3 | 2462.4 | 2202.6 | 1962.0 | 1715.1 | 1476.3 | 1293.4 | 1178.1 | 1139.7 |
| 17.5° | 3735.6 | 3408.2 | 2805.4 | 2322.4 | 1986.7 | 1699.5 | 1383.0 | 1158.9 | 971.4 | 885.4 | 858.0 |
| 20° | 4015.5 | 3587.4 | 2813.6 | 2184.3 | 1752.6 | 1348.3 | 1006.2 | 822.3 | 732.7 | 696.1 | 682.4 |
| 22.5° | 4406.1 | 3860.9 | 2838.3 | 2048.0 | 1496.4 | 1035.4 | 753.7 | 660.4 | 628.4 | 622.0 | 619.3 |
| 25° | 4887.2 | 4199.4 | 2921.5 | 1925.4 | 1280.6 | 790.3 | 630.2 | 588.2 | 569.9 | 563.5 | 562.5 |
| 27.5° | 5329.9 | 4636.6 | 3022.2 | 1820.3 | 1072.0 | 681.5 | 569.9 | 534.2 | 515.9 | 515.0 | 516.8 |
| 30° | 5729.7 | 5002.5 | 3106.3 | 1702.3 | 913.8 | 605.5 | 530.5 | 494.9 | 477.5 | 476.6 | 482.0 |
| 32.5° | 6075.4 | 5303.4 | 3168.5 | 1586.1 | 826.0 | 558.9 | 494.9 | 456.4 | 441.8 | 439.1 | 441.8 |
| 35° | 6445.0 | 5603.4 | 3140.2 | 1495.5 | 775.7 | 520.5 | 468.3 | 430.8 | 413.4 | 405.2 | 405.2 |
| 37.5° | 6866.6 | 5912.6 | 3091.7 | 1420.5 | 752.8 | 488.4 | 445.5 | 408.9 | 391.5 | 383.3 | 382.3 |
| 40° | 7326.7 | 6221.8 | 3024.9 | 1353.8 | 729.9 | 469.2 | 429.9 | 391.5 | 370.5 | 362.2 | 360.4 |
| 42.5° | 7732.9 | 6486.1 | 2970.0 | 1309.8 | 692.4 | 472.9 | 416.2 | 378.7 | 352.2 | 341.2 | 340.3 |
| 45° | 8085.9 | 6752.3 | 2960.0 | 1284.2 | 661.3 | 467.4 | 412.5 | 368.6 | 337.5 | 325.6 | 323.8 |
| 47.5° | 8362.2 | 7029.5 | 3017.6 | 1269.6 | 627.5 | 438.1 | 436.3 | 362.2 | 324.7 | 311.9 | 310.1 |
| 50° | 8698.8 | 7422.8 | 3149.3 | 1239.4 | 596.4 | 410.7 | 461.0 | 361.3 | 314.7 | 298.2 | 293.6 |
| 52.5° | 9147.0 | 7935.0 | 3327.7 | 1185.4 | 551.6 | 385.1 | 440.0 | 361.3 | 302.8 | 286.3 | 280.8 |
| 55° | 9824.8 | 8588.1 | 3502.4 | 1109.5 | 488.4 | 351.2 | 397.0 | 350.3 | 285.4 | 270.8 | 267.1 |
| 57.5° | 10273.9 | 9065.6 | 3614.0 | 1004.3 | 409.8 | 326.5 | 342.1 | 333.0 | 268.0 | 252.5 | 252.5 |
| 60° | 10296.8 | 9193.6 | 3560.9 | 871.7 | 360.4 | 303.7 | 297.3 | 335.7 | 252.5 | 236.0 | 234.2 |
| 62.5° | 10033.3 | 8879.9 | 3284.7 | 752.8 | 333.9 | 279.0 | 268.9 | 294.5 | 236.9 | 220.4 | 217.7 |
| 65° | 9621.7 | 8079.5 | 2805.4 | 696.1 | 319.2 | 257.0 | 242.4 | 241.5 | 220.4 | 204.9 | 201.2 |
| 67.5° | 8865.3 | 7060.6 | 2305.0 | 663.2 | 311.9 | 232.3 | 218.6 | 214.0 | 201.2 | 188.4 | 186.6 |
| 70° | 7750.2 | 5913.5 | 1848.6 | 649.4 | 308.3 | 206.7 | 195.7 | 190.3 | 179.3 | 169.2 | 168.3 |
| 72.5° | 6029.7 | 4796.7 | 1525.7 | 640.3 | 306.4 | 182.9 | 171.0 | 163.7 | 157.3 | 148.2 | 148.2 |
| 75° | 4331.1 | 3528.9 | 1164.4 | 577.2 | 283.6 | 157.3 | 144.5 | 139.9 | 130.8 | 123.5 | 125.3 |
| 77.5° | 2730.4 | 2376.4 | 766.5 | 424.4 | 219.5 | 126.2 | 115.3 | 112.5 | 105.2 | 95.1 | 101.5 |
| 80° | 1844.0 | 1671.2 | 447.3 | 267.1 | 138.1 | 92.4 | 88.7 | 87.8 | 79.6 | 68.6 | 69.5 |
| 82.5° | 1255.0 | 1231.2 | 232.3 | 151.8 | 79.6 | 54.0 | 52.1 | 54.0 | 44.8 | 36.6 | 36.6 |
| 85° | 490.3 | 669.6 | 109.8 | 59.5 | 25.6 | 8.2 | 11.9 | 12.8 | 7.3 | 3.7 | 4.6 |
| 87.5° | 9.1 | 68.6 | 2.7 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 | 4456.4 |
| 2.5° | 3715.5 | 3707.3 | 3721.0 | 3662.5 | 3674.3 | 3696.3 | 3707.3 | 3713.7 | 3804.2 | 3783.2 | 3840.8 |
| 5° | 2898.7 | 2890.4 | 2943.5 | 2950.8 | 2978.3 | 2972.8 | 2999.3 | 3005.7 | 3038.6 | 3050.5 | 3131.0 |
| 7.5° | 2108.4 | 2144.1 | 2204.4 | 2235.5 | 2282.2 | 2296.8 | 2283.1 | 2316.9 | 2248.3 | 2297.7 | 2312.4 |
| 10° | 1694.0 | 1651.0 | 1625.4 | 1696.8 | 1705.9 | 1773.6 | 1746.2 | 1724.2 | 1764.5 | 1766.3 | 1804.7 |
| 12.5° | 1410.5 | 1318.1 | 1256.8 | 1276.9 | 1298.9 | 1328.1 | 1332.7 | 1376.6 | 1405.9 | 1433.3 | 1456.2 |
| 15° | 1105.9 | 1073.9 | 1018.1 | 990.6 | 1021.7 | 1033.6 | 1062.0 | 1098.6 | 1129.7 | 1137.9 | 1169.0 |
| 17.5° | 848.8 | 854.3 | 845.2 | 828.7 | 847.9 | 857.1 | 858.9 | 859.8 | 868.0 | 862.6 | 908.3 |
| 20° | 683.3 | 702.5 | 725.4 | 729.0 | 735.4 | 740.0 | 731.8 | 700.7 | 701.6 | 720.8 | 735.4 |
| 22.5° | 618.3 | 622.0 | 647.6 | 655.8 | 676.0 | 667.7 | 643.9 | 629.3 | 627.5 | 632.1 | 639.4 |
| 25° | 567.1 | 572.6 | 590.9 | 603.7 | 619.3 | 604.6 | 587.2 | 573.5 | 571.7 | 576.3 | 583.6 |
| 27.5° | 521.4 | 529.6 | 546.1 | 558.9 | 573.5 | 559.8 | 543.3 | 531.4 | 530.5 | 529.6 | 534.2 |
| 30° | 484.8 | 493.9 | 505.8 | 520.5 | 530.5 | 518.6 | 503.1 | 496.7 | 495.8 | 493.9 | 495.8 |
| 32.5° | 448.2 | 462.8 | 474.7 | 482.0 | 492.1 | 483.0 | 471.1 | 467.4 | 461.0 | 455.5 | 452.8 |
| 35° | 407.0 | 422.6 | 440.9 | 450.0 | 460.1 | 450.9 | 442.7 | 427.2 | 416.2 | 415.3 | 417.1 |
| 37.5° | 383.3 | 389.7 | 404.3 | 419.8 | 429.9 | 425.3 | 409.8 | 394.2 | 391.5 | 391.5 | 393.3 |
| 40° | 362.2 | 365.0 | 371.4 | 391.5 | 409.8 | 396.1 | 376.9 | 372.3 | 372.3 | 371.4 | 372.3 |
| 42.5° | 341.2 | 343.9 | 343.9 | 359.5 | 388.7 | 366.8 | 352.2 | 352.2 | 352.2 | 353.1 | 355.8 |
| 45° | 322.0 | 322.9 | 322.0 | 333.0 | 360.4 | 342.1 | 332.0 | 334.8 | 336.6 | 338.4 | 340.3 |
| 47.5° | 305.5 | 306.4 | 305.5 | 314.7 | 328.4 | 321.1 | 315.6 | 319.2 | 322.9 | 325.6 | 327.5 |
| 50° | 290.9 | 290.0 | 291.8 | 297.3 | 303.7 | 305.5 | 301.9 | 307.3 | 309.2 | 312.8 | 317.4 |
| 52.5° | 278.1 | 277.2 | 279.0 | 281.7 | 290.9 | 290.9 | 290.9 | 295.4 | 299.1 | 302.8 | 309.2 |
| 55° | 263.4 | 264.3 | 267.1 | 270.8 | 282.6 | 280.8 | 281.7 | 285.4 | 289.0 | 294.5 | 298.2 |
| 57.5° | 249.7 | 251.5 | 255.2 | 260.7 | 272.6 | 271.7 | 272.6 | 274.4 | 279.0 | 281.7 | 285.4 |
| 60° | 234.2 | 237.8 | 242.4 | 246.1 | 257.9 | 257.0 | 261.6 | 265.3 | 268.0 | 268.0 | 269.8 |
| 62.5° | 218.6 | 224.1 | 228.7 | 231.4 | 244.2 | 245.1 | 251.5 | 254.3 | 256.1 | 254.3 | 257.0 |
| 65° | 203.1 | 211.3 | 213.1 | 216.8 | 229.6 | 230.5 | 237.8 | 244.2 | 242.4 | 240.6 | 245.1 |
| 67.5° | 187.5 | 197.6 | 196.7 | 201.2 | 214.0 | 215.9 | 222.3 | 233.2 | 229.6 | 227.8 | 231.4 |
| 70° | 170.1 | 177.5 | 178.4 | 181.1 | 198.5 | 195.7 | 205.8 | 215.9 | 213.1 | 214.0 | 214.0 |
| 72.5° | 150.9 | 157.3 | 157.3 | 162.8 | 181.1 | 176.5 | 184.8 | 195.7 | 195.7 | 194.8 | 194.8 |
| 75° | 128.1 | 131.7 | 135.4 | 143.6 | 162.8 | 157.3 | 162.8 | 172.9 | 174.7 | 172.9 | 172.9 |
| 77.5° | 103.4 | 108.8 | 110.7 | 121.7 | 135.4 | 134.5 | 139.9 | 144.5 | 148.2 | 146.4 | 146.4 |
| 80° | 73.2 | 78.7 | 86.0 | 97.9 | 106.1 | 108.8 | 111.6 | 115.3 | 117.1 | 117.1 | 118.9 |
| 82.5° | 41.2 | 49.4 | 55.8 | 67.7 | 71.3 | 85.1 | 84.2 | 86.9 | 84.2 | 74.1 | 82.3 |
| 85° | 9.1 | 17.4 | 24.7 | 31.1 | 35.7 | 49.4 | 52.1 | 58.5 | 48.5 | 44.8 | 44.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 14.6 | 20.1 | 17.4 | 14.6 | 14.6 |
| 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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| 82.5° | 96.0 | 93.3 | 94.2 | 100.6 | 150.0 | 254.3 | 402.5 | 1378.5 | 1405.0 | 1377.5 |
| 85° | 60.4 | 60.4 | 58.5 | 65.9 | 96.0 | 132.6 | 219.5 | 844.3 | 659.5 | 627.5 |
| 87.5° | 24.7 | 20.1 | 22.9 | 26.5 | 45.7 | 54.0 | 86.0 | 173.8 | 66.8 | 61.3 |
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