

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: P529251

Luminaire Tested: **GALN-SA4B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9148 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

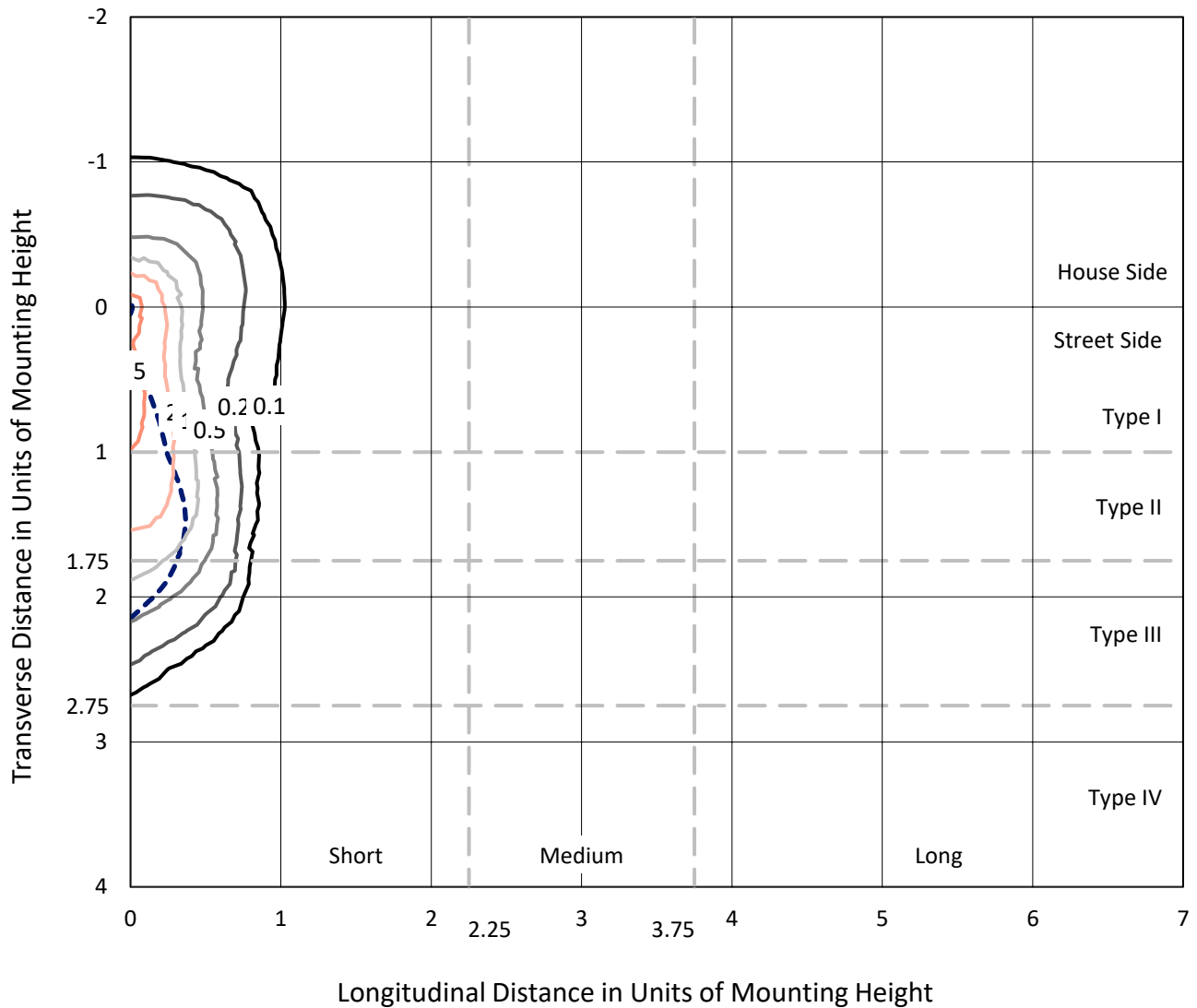
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

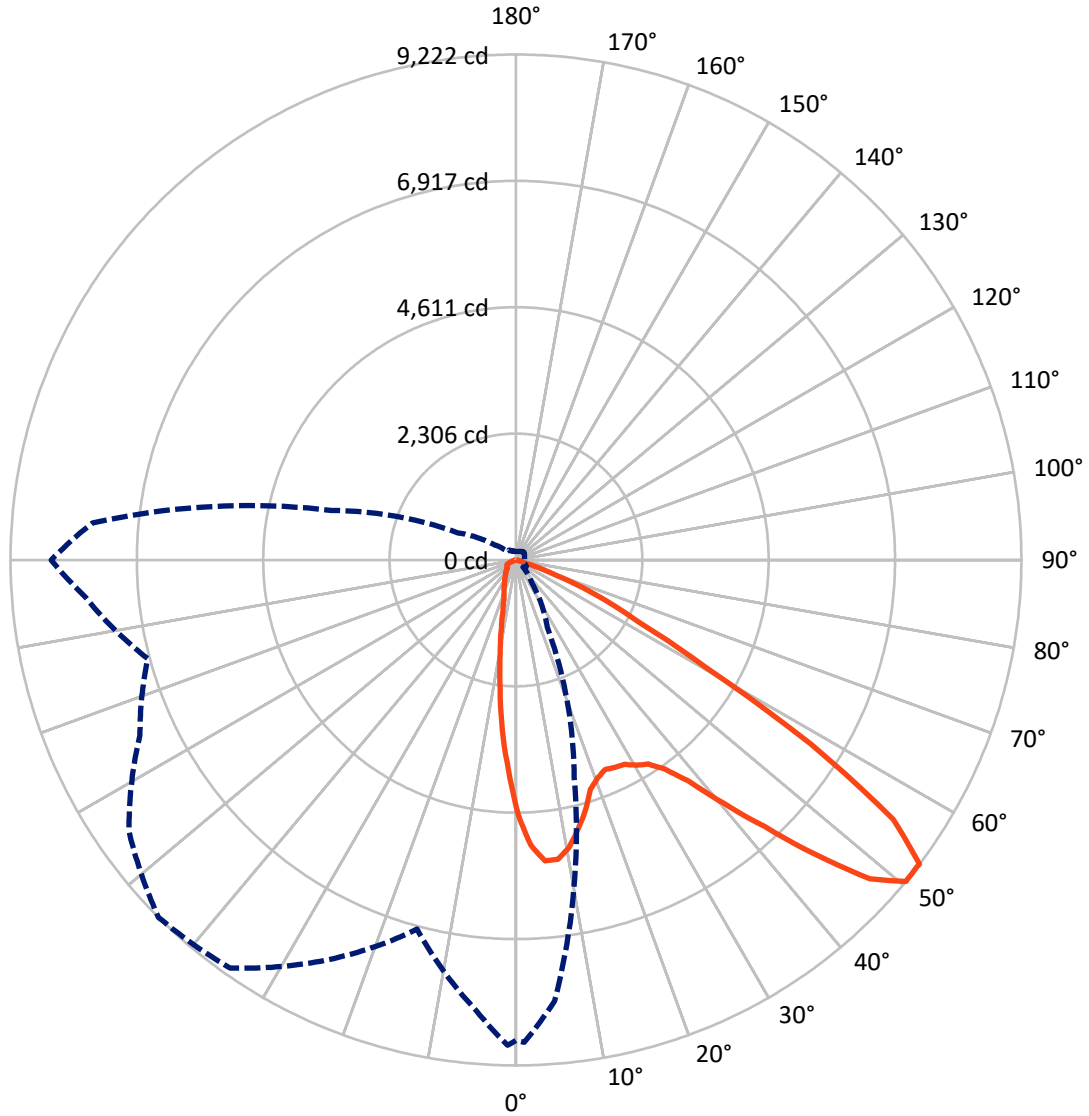
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1832.3 | 0.0 | 1832.3 |
| | % Fixture | 20.0 | 0.0 | 20.0 |
| Street Side | Lumens | 7315.7 | 0.0 | 7315.7 |
| | % Fixture | 80.0 | 0.0 | 80.0 |
| Total | Lumens | 9148.0 | 0.0 | 9148.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 338.1 | 3.7 |
| 10°-20° | 672.1 | 7.3 |
| 20°-30° | 1009.6 | 11.0 |
| 30°-40° | 1515.4 | 16.6 |
| 40°-50° | 2129.8 | 23.3 |
| 50°-60° | 2297.4 | 25.1 |
| 60°-70° | 1066.7 | 11.7 |
| 70°-80° | 100.4 | 1.1 |
| 80°-90° | 18.5 | 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° | 9148.0 | 100.0 |
| 0°-180° | 9148.0 | 100.0 |

Coefficient of Utilization



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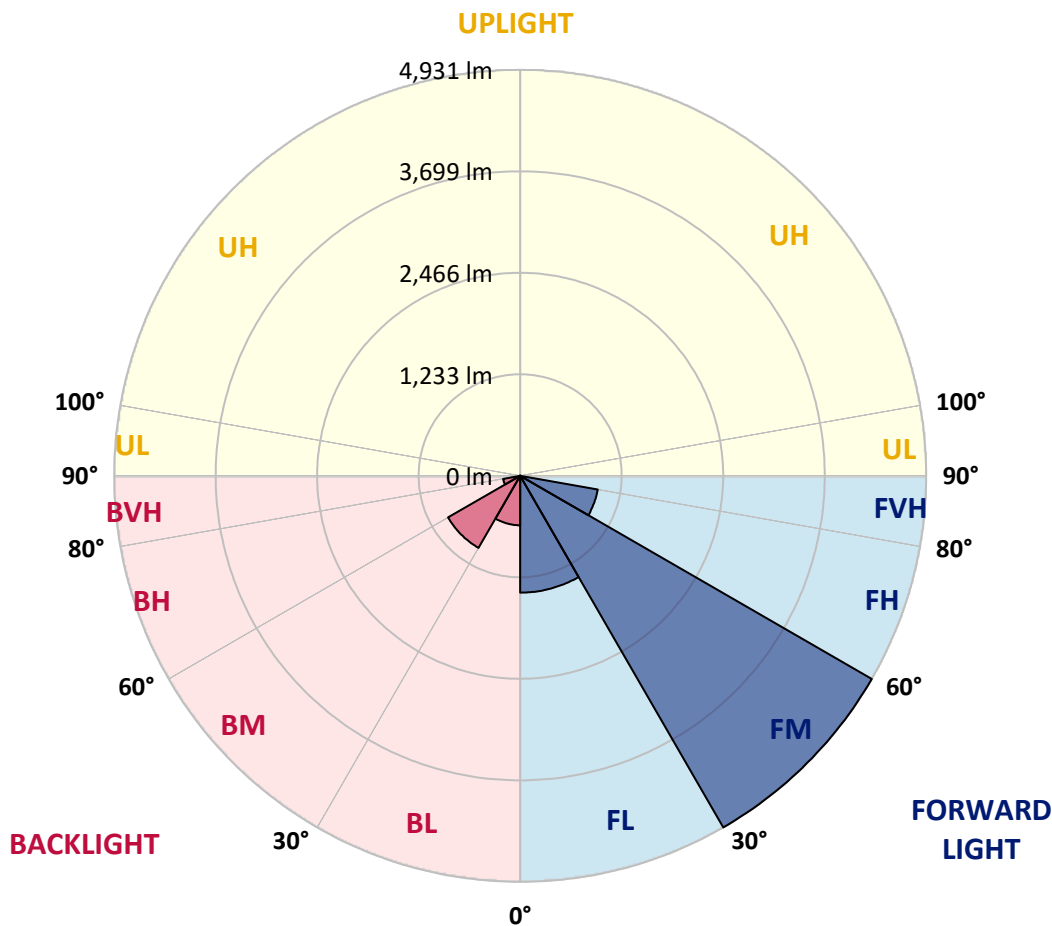
CATALOG NUMBER: GALN-SA4B-827-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1419.2 | 15.5 | | | |
| FM (30°-60°) | 4931.5 | 53.9 | | | |
| FH (60°-80°) | 956.6 | 10.5 | | | G1/1800 |
| FVH (80°-90°) | 8.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 600.6 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 1011.2 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 210.4 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 |
| 2.5° | 4822.5 | 4748.1 | 4653.7 | 4575.7 | 4459.5 | 4225.4 | 4161.8 | 4085.6 | 4022.1 | 3936.8 | 3817.0 |
| 5° | 4385.1 | 4361.5 | 4317.9 | 4023.9 | 3811.5 | 3528.4 | 3296.1 | 3198.1 | 3069.2 | 2963.9 | 2887.7 |
| 7.5° | 4051.1 | 3956.7 | 3818.8 | 3523.0 | 3183.5 | 2880.4 | 2622.7 | 2472.1 | 2301.4 | 2243.4 | 2139.9 |
| 10° | 3693.6 | 3715.3 | 3512.1 | 3096.4 | 2686.2 | 2441.2 | 2281.5 | 2136.3 | 1982.0 | 1880.4 | 1733.3 |
| 12.5° | 3579.2 | 3508.4 | 3352.3 | 2838.7 | 2488.4 | 2259.7 | 2065.5 | 1885.8 | 1722.5 | 1559.1 | 1417.5 |
| 15° | 3653.6 | 3544.7 | 3326.9 | 2784.2 | 2335.9 | 2051.0 | 1807.8 | 1564.5 | 1413.9 | 1205.2 | 1058.2 |
| 17.5° | 3920.4 | 3833.3 | 3541.1 | 2842.3 | 2257.9 | 1851.3 | 1490.1 | 1239.7 | 1009.2 | 820.4 | 746.0 |
| 20° | 4365.1 | 4241.7 | 3875.1 | 2916.7 | 2141.7 | 1609.9 | 1208.8 | 900.2 | 682.4 | 602.6 | 560.8 |
| 22.5° | 4800.7 | 4733.6 | 4270.7 | 3060.1 | 2038.3 | 1395.7 | 907.5 | 606.2 | 510.0 | 495.5 | 468.3 |
| 25° | 5630.2 | 5428.7 | 4875.1 | 3319.7 | 1958.4 | 1194.3 | 684.3 | 488.2 | 432.0 | 421.1 | 424.7 |
| 27.5° | 6123.9 | 5955.1 | 5434.2 | 3492.1 | 1869.5 | 1040.0 | 579.0 | 448.3 | 410.2 | 386.6 | 377.5 |
| 30° | 6597.6 | 6401.6 | 5711.9 | 3593.7 | 1678.9 | 876.7 | 513.7 | 430.2 | 421.1 | 386.6 | 375.7 |
| 32.5° | 6962.4 | 6770.0 | 6113.0 | 3746.2 | 1600.8 | 771.4 | 422.9 | 335.8 | 312.2 | 308.6 | 341.2 |
| 35° | 7521.4 | 7316.3 | 6456.0 | 3829.7 | 1541.0 | 716.9 | 366.6 | 299.5 | 272.3 | 261.4 | 263.2 |
| 37.5° | 8042.4 | 7902.6 | 6773.7 | 3862.4 | 1477.4 | 700.6 | 328.5 | 268.6 | 245.0 | 237.8 | 236.0 |
| 40° | 8478.0 | 8165.8 | 7074.9 | 3896.8 | 1450.2 | 669.7 | 304.9 | 245.0 | 228.7 | 217.8 | 217.8 |
| 42.5° | 8677.6 | 8360.0 | 7412.5 | 3876.9 | 1442.9 | 620.7 | 304.9 | 225.1 | 212.4 | 201.5 | 199.7 |
| 45° | 8634.0 | 8505.2 | 7563.2 | 3867.8 | 1442.9 | 571.7 | 277.7 | 219.6 | 201.5 | 186.9 | 183.3 |
| 47.5° | 8746.6 | 8577.8 | 7751.9 | 3905.9 | 1413.9 | 537.2 | 234.1 | 230.5 | 190.6 | 172.4 | 168.8 |
| 50° | 8766.5 | 8799.2 | 8080.5 | 4103.8 | 1350.4 | 493.7 | 183.3 | 226.9 | 183.3 | 156.1 | 152.5 |
| 52° | 8897.2 | 8693.9 | 8180.3 | 4209.0 | 1283.2 | 461.0 | 154.3 | 194.2 | 176.1 | 145.2 | 141.6 |
| 52.5° | 8717.5 | 8850.0 | 8203.9 | 4247.1 | 1290.5 | 439.2 | 148.8 | 190.6 | 172.4 | 145.2 | 136.1 |
| 55° | 8516.1 | 8643.1 | 8107.7 | 4328.8 | 1183.4 | 344.9 | 116.2 | 137.9 | 156.1 | 127.1 | 121.6 |
| 57.5° | 7401.6 | 7530.5 | 7045.9 | 3964.0 | 963.8 | 243.2 | 96.2 | 103.5 | 137.9 | 118.0 | 112.5 |
| 60° | 6579.4 | 6486.9 | 5913.3 | 3307.0 | 684.3 | 136.1 | 76.2 | 79.9 | 150.6 | 108.9 | 107.1 |
| 62.5° | 6013.2 | 5815.3 | 4942.3 | 2553.7 | 417.5 | 90.8 | 59.9 | 61.7 | 116.2 | 101.6 | 101.6 |
| 65° | 4448.6 | 4227.2 | 3283.4 | 1544.6 | 205.1 | 63.5 | 45.4 | 49.0 | 72.6 | 87.1 | 87.1 |
| 67.5° | 2539.2 | 2453.9 | 1586.3 | 697.0 | 85.3 | 39.9 | 34.5 | 38.1 | 56.3 | 70.8 | 67.2 |
| 70° | 1167.1 | 1047.3 | 609.8 | 147.0 | 39.9 | 27.2 | 27.2 | 30.9 | 45.4 | 52.6 | 49.0 |
| 72.5° | 341.2 | 323.1 | 148.8 | 23.6 | 16.3 | 16.3 | 18.2 | 23.6 | 34.5 | 39.9 | 36.3 |
| 75° | 25.4 | 16.3 | 10.9 | 7.3 | 7.3 | 10.9 | 14.5 | 23.6 | 34.5 | 38.1 | 30.9 |
| 77.5° | 1.8 | 3.6 | 1.8 | 1.8 | 5.4 | 10.9 | 16.3 | 29.0 | 45.4 | 47.2 | 34.5 |
| 80° | 1.8 | 1.8 | 0.0 | 1.8 | 5.4 | 10.9 | 18.2 | 32.7 | 50.8 | 54.5 | 29.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 1.8 | 7.3 | 14.5 | 21.8 | 34.5 | 47.2 | 58.1 | 30.9 |
| 85° | 0.0 | 0.0 | 0.0 | 1.8 | 10.9 | 20.0 | 25.4 | 9.1 | 5.4 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 |
| 2.5° | 3902.3 | 3855.1 | 3837.0 | 3853.3 | 3847.8 | 3842.4 | 3942.2 | 3920.4 | 3916.8 | 3949.5 | 3942.2 |
| 5° | 2929.4 | 2846.0 | 3074.6 | 2982.1 | 3078.3 | 3136.4 | 3147.2 | 3152.7 | 3219.8 | 3149.1 | 3241.6 |
| 7.5° | 2087.3 | 2109.1 | 2107.2 | 2168.9 | 2279.7 | 2377.7 | 2435.8 | 2390.4 | 2386.8 | 2377.7 | 2337.7 |
| 10° | 1668.0 | 1629.9 | 1622.6 | 1608.1 | 1642.6 | 1726.1 | 1796.9 | 1740.6 | 1700.7 | 1755.1 | 1738.8 |
| 12.5° | 1363.1 | 1310.4 | 1281.4 | 1223.3 | 1225.1 | 1281.4 | 1281.4 | 1281.4 | 1321.3 | 1352.2 | 1375.8 |
| 15° | 1045.5 | 1001.9 | 1001.9 | 943.8 | 931.1 | 932.9 | 962.0 | 965.6 | 1029.1 | 1047.3 | 1056.3 |
| 17.5° | 731.5 | 707.9 | 735.1 | 758.7 | 744.2 | 747.8 | 758.7 | 762.3 | 771.4 | 764.1 | 782.3 |
| 20° | 562.7 | 559.0 | 566.3 | 608.0 | 638.9 | 657.0 | 644.3 | 626.2 | 615.3 | 589.9 | 589.9 |
| 22.5° | 477.4 | 484.6 | 497.3 | 531.8 | 571.7 | 582.6 | 568.1 | 526.4 | 493.7 | 490.1 | 491.9 |
| 25° | 424.7 | 432.0 | 451.9 | 473.7 | 495.5 | 513.7 | 499.1 | 468.3 | 450.1 | 433.8 | 433.8 |
| 27.5° | 392.0 | 395.7 | 406.6 | 422.9 | 441.0 | 455.6 | 450.1 | 433.8 | 413.8 | 406.6 | 390.2 |
| 30° | 366.6 | 372.1 | 384.8 | 388.4 | 404.7 | 412.0 | 402.9 | 399.3 | 386.6 | 377.5 | 372.1 |
| 32.5° | 353.9 | 352.1 | 361.2 | 364.8 | 366.6 | 372.1 | 361.2 | 366.6 | 364.8 | 350.3 | 344.9 |
| 35° | 266.8 | 281.3 | 304.9 | 324.9 | 330.3 | 337.6 | 335.8 | 328.5 | 308.6 | 292.2 | 272.3 |
| 37.5° | 239.6 | 248.7 | 261.4 | 277.7 | 299.5 | 308.6 | 304.9 | 286.8 | 263.2 | 252.3 | 248.7 |
| 40° | 221.4 | 226.9 | 237.8 | 248.7 | 270.4 | 286.8 | 274.1 | 257.7 | 239.6 | 230.5 | 225.1 |
| 42.5° | 205.1 | 206.9 | 212.4 | 223.2 | 239.6 | 265.0 | 243.2 | 221.4 | 214.2 | 208.7 | 205.1 |
| 45° | 186.9 | 186.9 | 194.2 | 199.7 | 217.8 | 241.4 | 219.6 | 199.7 | 196.0 | 192.4 | 190.6 |
| 47.5° | 172.4 | 174.2 | 177.9 | 185.1 | 199.7 | 216.0 | 201.5 | 185.1 | 176.1 | 174.2 | 170.6 |
| 50° | 154.3 | 156.1 | 163.4 | 170.6 | 188.8 | 197.8 | 188.8 | 170.6 | 161.5 | 156.1 | 156.1 |
| 52° | 139.8 | 145.2 | 152.5 | 167.0 | 179.7 | 194.2 | 183.3 | 163.4 | 152.5 | 147.0 | 143.4 |
| 52.5° | 137.9 | 141.6 | 148.8 | 165.2 | 179.7 | 192.4 | 181.5 | 161.5 | 148.8 | 145.2 | 141.6 |
| 55° | 123.4 | 128.9 | 141.6 | 161.5 | 177.9 | 192.4 | 177.9 | 159.7 | 141.6 | 132.5 | 128.9 |
| 57.5° | 118.0 | 121.6 | 137.9 | 163.4 | 176.1 | 192.4 | 177.9 | 159.7 | 141.6 | 125.2 | 121.6 |
| 60° | 112.5 | 119.8 | 137.9 | 157.9 | 174.2 | 194.2 | 179.7 | 157.9 | 137.9 | 118.0 | 118.0 |
| 62.5° | 107.1 | 112.5 | 136.1 | 154.3 | 167.0 | 186.9 | 172.4 | 154.3 | 132.5 | 112.5 | 110.7 |
| 65° | 92.6 | 101.6 | 119.8 | 128.9 | 143.4 | 161.5 | 147.0 | 134.3 | 116.2 | 99.8 | 98.0 |
| 67.5° | 70.8 | 74.4 | 88.9 | 99.8 | 108.9 | 125.2 | 118.0 | 101.6 | 88.9 | 76.2 | 76.2 |
| 70° | 49.0 | 52.6 | 63.5 | 69.0 | 78.0 | 87.1 | 81.7 | 69.0 | 59.9 | 52.6 | 50.8 |
| 72.5° | 34.5 | 36.3 | 39.9 | 43.6 | 47.2 | 50.8 | 49.0 | 39.9 | 34.5 | 32.7 | 30.9 |
| 75° | 27.2 | 30.9 | 32.7 | 30.9 | 29.0 | 27.2 | 27.2 | 23.6 | 20.0 | 18.2 | 18.2 |
| 77.5° | 27.2 | 29.0 | 27.2 | 23.6 | 20.0 | 18.2 | 16.3 | 14.5 | 10.9 | 9.1 | 10.9 |
| 80° | 23.6 | 23.6 | 23.6 | 20.0 | 18.2 | 16.3 | 14.5 | 12.7 | 10.9 | 9.1 | 9.1 |
| 82.5° | 25.4 | 25.4 | 23.6 | 20.0 | 20.0 | 16.3 | 16.3 | 14.5 | 12.7 | 9.1 | 9.1 |
| 85° | 0.0 | 0.0 | 0.0 | 3.6 | 9.1 | 16.3 | 16.3 | 14.5 | 12.7 | 10.9 | 10.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.6 | 7.3 | 9.1 | 10.9 | 10.9 | 10.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 |
| 2.5° | 4007.6 | 4076.5 | 4207.2 | 4337.9 | 4417.8 | 4512.1 | 4682.7 | 4773.5 | 4891.5 | 4949.6 | 5063.9 |
| 5° | 3228.9 | 3392.3 | 3450.4 | 3599.2 | 3758.9 | 3918.6 | 4172.7 | 4452.2 | 4684.6 | 4844.3 | 5051.2 |
| 7.5° | 2355.9 | 2394.0 | 2619.1 | 2718.9 | 2980.3 | 3270.7 | 3617.3 | 3969.4 | 4263.5 | 4524.8 | 4682.7 |
| 10° | 1766.0 | 1905.8 | 2047.3 | 2237.9 | 2448.5 | 2747.9 | 3080.1 | 3468.5 | 3849.7 | 4111.0 | 4310.7 |
| 12.5° | 1419.3 | 1530.1 | 1718.8 | 1923.9 | 2183.5 | 2381.3 | 2715.3 | 3100.1 | 3593.7 | 3849.7 | 4112.8 |
| 15° | 1074.5 | 1216.1 | 1430.2 | 1642.6 | 1916.7 | 2125.4 | 2463.0 | 2947.6 | 3582.8 | 3935.0 | 4161.8 |
| 17.5° | 796.8 | 893.0 | 1085.4 | 1323.1 | 1602.7 | 1896.7 | 2352.3 | 2931.3 | 3704.5 | 4123.7 | 4357.9 |
| 20° | 609.8 | 642.5 | 764.1 | 976.5 | 1279.6 | 1664.4 | 2172.6 | 3002.0 | 4063.8 | 4582.9 | 4820.7 |
| 22.5° | 493.7 | 508.2 | 555.4 | 702.4 | 996.4 | 1461.1 | 2087.3 | 3051.0 | 4468.6 | 5132.9 | 5450.5 |
| 25° | 430.2 | 426.5 | 457.4 | 520.9 | 778.6 | 1270.5 | 1978.4 | 3236.2 | 4964.1 | 5779.0 | 6064.0 |
| 27.5° | 392.0 | 392.0 | 406.6 | 451.9 | 646.1 | 1147.1 | 1909.4 | 3368.7 | 5463.2 | 6347.1 | 6501.4 |
| 30° | 372.1 | 375.7 | 417.5 | 432.0 | 537.2 | 1000.1 | 1795.1 | 3503.0 | 5940.6 | 6710.1 | 6922.5 |
| 32.5° | 344.9 | 330.3 | 321.3 | 357.6 | 451.9 | 867.6 | 1680.7 | 3559.3 | 6327.2 | 7154.8 | 7336.3 |
| 35° | 265.0 | 257.7 | 268.6 | 295.8 | 388.4 | 755.0 | 1553.7 | 3622.8 | 6771.8 | 7670.3 | 7706.6 |
| 37.5° | 239.6 | 237.8 | 245.0 | 268.6 | 326.7 | 657.0 | 1462.9 | 3606.4 | 7111.2 | 8096.8 | 7998.8 |
| 40° | 221.4 | 221.4 | 226.9 | 246.8 | 292.2 | 588.1 | 1368.5 | 3591.9 | 7439.8 | 8576.0 | 8289.2 |
| 42.5° | 206.9 | 206.9 | 216.0 | 228.7 | 277.7 | 542.7 | 1297.7 | 3572.0 | 7715.6 | 8870.0 | 8459.8 |
| 45° | 186.9 | 192.4 | 206.9 | 219.6 | 281.3 | 511.8 | 1245.1 | 3495.7 | 7810.0 | 8866.4 | 8378.1 |
| 47.5° | 172.4 | 179.7 | 194.2 | 212.4 | 254.1 | 502.8 | 1208.8 | 3428.6 | 7777.4 | 8648.6 | 8122.2 |
| 50° | 156.1 | 165.2 | 185.1 | 216.0 | 216.0 | 484.6 | 1170.7 | 3488.5 | 7753.8 | 8479.8 | 7877.2 |
| 52° | 145.2 | 152.5 | 177.9 | 210.5 | 188.8 | 446.5 | 1147.1 | 3604.6 | 7850.0 | 8458.0 | 7768.3 |
| 52.5° | 143.4 | 148.8 | 172.4 | 206.9 | 179.7 | 439.2 | 1130.8 | 3631.9 | 7880.8 | 8403.5 | 7842.7 |
| 55° | 127.1 | 134.3 | 157.9 | 161.5 | 147.0 | 361.2 | 1078.1 | 3693.6 | 7728.4 | 8296.5 | 7771.9 |
| 57.5° | 119.8 | 123.4 | 139.8 | 132.5 | 127.1 | 272.3 | 927.5 | 3597.4 | 6864.4 | 7369.0 | 7231.0 |
| 60° | 110.7 | 114.3 | 130.7 | 103.5 | 107.1 | 190.6 | 697.0 | 3123.6 | 5512.2 | 6140.2 | 6388.9 |
| 62.5° | 107.1 | 105.3 | 123.4 | 83.5 | 90.8 | 137.9 | 491.9 | 2539.2 | 4247.1 | 5054.8 | 5485.0 |
| 65° | 94.4 | 92.6 | 88.9 | 70.8 | 78.0 | 107.1 | 294.0 | 1657.1 | 2993.0 | 3824.2 | 4060.2 |
| 67.5° | 72.6 | 76.2 | 65.3 | 56.3 | 65.3 | 83.5 | 163.4 | 742.3 | 1570.0 | 2294.2 | 2484.8 |
| 70° | 50.8 | 54.5 | 52.6 | 49.0 | 58.1 | 69.0 | 94.4 | 254.1 | 649.8 | 1205.2 | 1328.6 |
| 72.5° | 30.9 | 38.1 | 39.9 | 41.7 | 50.8 | 59.9 | 67.2 | 81.7 | 172.4 | 426.5 | 530.0 |
| 75° | 18.2 | 25.4 | 30.9 | 36.3 | 41.7 | 50.8 | 56.3 | 58.1 | 59.9 | 79.9 | 128.9 |
| 77.5° | 12.7 | 18.2 | 27.2 | 34.5 | 41.7 | 50.8 | 59.9 | 63.5 | 59.9 | 56.3 | 59.9 |
| 80° | 10.9 | 18.2 | 25.4 | 32.7 | 43.6 | 52.6 | 59.9 | 59.9 | 58.1 | 50.8 | 54.5 |
| 82.5° | 10.9 | 18.2 | 27.2 | 34.5 | 41.7 | 50.8 | 58.1 | 59.9 | 54.5 | 50.8 | 52.6 |
| 85° | 12.7 | 20.0 | 29.0 | 36.3 | 45.4 | 41.7 | 38.1 | 30.9 | 29.0 | 23.6 | 25.4 |
| 87.5° | 12.7 | 18.2 | 18.2 | 20.0 | 21.8 | 21.8 | 21.8 | 20.0 | 16.3 | 14.5 | 14.5 |
| 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-SLR-GRSBK

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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 | 4639.2 |
| 2.5° | 5069.3 | 5214.6 | 5209.1 | 5212.7 | 5191.0 | 5043.9 | 4973.2 | 4793.5 | 4844.3 | 4822.5 |
| 5° | 5263.6 | 5406.9 | 5530.4 | 5515.8 | 5348.9 | 5149.2 | 4853.4 | 4573.8 | 4497.6 | 4385.1 |
| 7.5° | 5069.3 | 5414.2 | 5528.5 | 5512.2 | 5265.4 | 5009.5 | 4537.5 | 4258.0 | 4125.5 | 4051.1 |
| 10° | 4760.8 | 5160.1 | 5301.7 | 5330.7 | 5163.7 | 4775.3 | 4341.5 | 3893.2 | 3822.4 | 3693.6 |
| 12.5° | 4584.7 | 4875.1 | 4962.3 | 5040.3 | 4982.2 | 4691.8 | 4192.7 | 3762.5 | 3664.5 | 3579.2 |
| 15° | 4441.4 | 4613.8 | 4650.1 | 4739.0 | 4773.5 | 4617.4 | 4270.7 | 3904.1 | 3662.7 | 3653.6 |
| 17.5° | 4573.8 | 4503.1 | 4370.6 | 4397.8 | 4506.7 | 4619.2 | 4472.2 | 4183.6 | 3949.5 | 3920.4 |
| 20° | 4793.5 | 4481.3 | 4181.8 | 4249.0 | 4339.7 | 4684.6 | 4777.1 | 4573.8 | 4439.5 | 4365.1 |
| 22.5° | 5045.8 | 4519.4 | 4121.9 | 4154.6 | 4327.0 | 4831.6 | 5270.8 | 5158.3 | 4907.8 | 4800.7 |
| 25° | 5512.2 | 4624.7 | 4169.1 | 4190.9 | 4426.8 | 5036.7 | 5717.3 | 5800.8 | 5652.0 | 5630.2 |
| 27.5° | 5967.8 | 4896.9 | 4272.6 | 4223.5 | 4477.7 | 5236.3 | 5987.7 | 6436.1 | 6174.7 | 6123.9 |
| 30° | 6200.1 | 5118.4 | 4426.8 | 4343.3 | 4688.2 | 5357.9 | 6151.1 | 6849.9 | 6621.2 | 6597.6 |
| 32.5° | 6555.8 | 5319.8 | 4546.6 | 4439.5 | 4806.2 | 5508.6 | 6456.0 | 7301.8 | 7080.4 | 6962.4 |
| 35° | 6704.7 | 5539.4 | 4809.8 | 4684.6 | 5143.8 | 5719.1 | 6612.1 | 7704.8 | 7635.8 | 7521.4 |
| 37.5° | 6991.5 | 5775.4 | 5120.2 | 5112.9 | 5552.1 | 5993.2 | 6893.4 | 8252.9 | 8240.2 | 8042.4 |
| 40° | 7015.0 | 6033.1 | 5610.2 | 5838.9 | 6183.8 | 6470.5 | 7140.3 | 8405.4 | 8612.3 | 8478.0 |
| 42.5° | 7051.3 | 6485.1 | 6457.8 | 6646.6 | 6942.4 | 6880.7 | 7149.4 | 8441.7 | 8757.5 | 8677.6 |
| 45° | 7067.7 | 6937.0 | 7320.0 | 7668.5 | 7791.9 | 7418.0 | 7064.1 | 8372.7 | 8833.7 | 8634.0 |
| 47.5° | 6937.0 | 7325.4 | 8016.9 | 8690.3 | 8726.6 | 7748.3 | 7027.8 | 8301.9 | 8879.1 | 8746.6 |
| 50° | 6955.2 | 7568.6 | 8619.5 | 9222.1 | 9089.6 | 8040.5 | 6971.5 | 8258.3 | 8855.5 | 8766.5 |
| 52° | 6911.6 | 7574.1 | 8704.8 | 9211.2 | 9118.7 | 7879.0 | 6875.3 | 8091.4 | 8833.7 | 8897.2 |
| 52.5° | 6960.6 | 7541.4 | 8615.9 | 9218.5 | 9098.7 | 7958.9 | 6862.6 | 8183.9 | 8846.4 | 8717.5 |
| 55° | 6791.8 | 7153.0 | 8095.0 | 8350.9 | 8332.8 | 7223.8 | 6472.4 | 7877.2 | 8514.3 | 8516.1 |
| 57.5° | 6138.4 | 6200.1 | 6348.9 | 6343.5 | 6260.0 | 5679.2 | 5535.8 | 7243.7 | 7590.4 | 7401.6 |
| 60° | 5408.8 | 4539.4 | 4138.2 | 3974.9 | 3882.3 | 3787.9 | 4896.9 | 6626.6 | 6659.3 | 6579.4 |
| 62.5° | 4673.7 | 3147.2 | 2613.6 | 2568.3 | 2590.0 | 2934.9 | 4733.6 | 6381.6 | 6185.6 | 6013.2 |
| 65° | 3771.6 | 2294.2 | 1898.5 | 1838.6 | 2051.0 | 2423.1 | 3831.5 | 4893.3 | 4592.0 | 4448.6 |
| 67.5° | 2368.6 | 1673.4 | 1283.2 | 1170.7 | 1426.6 | 1668.0 | 2517.4 | 3074.6 | 2737.0 | 2539.2 |
| 70° | 1404.8 | 934.7 | 580.8 | 520.9 | 586.3 | 889.4 | 1410.3 | 1533.7 | 1268.7 | 1167.1 |
| 72.5° | 553.6 | 343.0 | 161.5 | 137.9 | 143.4 | 312.2 | 519.1 | 506.4 | 383.0 | 341.2 |
| 75° | 148.8 | 103.5 | 56.3 | 45.4 | 38.1 | 58.1 | 83.5 | 54.5 | 20.0 | 25.4 |
| 77.5° | 69.0 | 61.7 | 49.0 | 38.1 | 29.0 | 21.8 | 10.9 | 3.6 | 3.6 | 1.8 |
| 80° | 59.9 | 52.6 | 45.4 | 38.1 | 29.0 | 18.2 | 9.1 | 1.8 | 1.8 | 1.8 |
| 82.5° | 56.3 | 49.0 | 41.7 | 34.5 | 27.2 | 18.2 | 9.1 | 1.8 | 0.0 | 0.0 |
| 85° | 23.6 | 30.9 | 34.5 | 32.7 | 29.0 | 18.2 | 9.1 | 1.8 | 0.0 | 0.0 |
| 87.5° | 12.7 | 10.9 | 9.1 | 7.3 | 5.4 | 3.6 | 3.6 | 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 |

(END OF REPORT)