

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: P949985

Luminaire Tested: **GALN-SB4C-827-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949985  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-827-U-SLL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

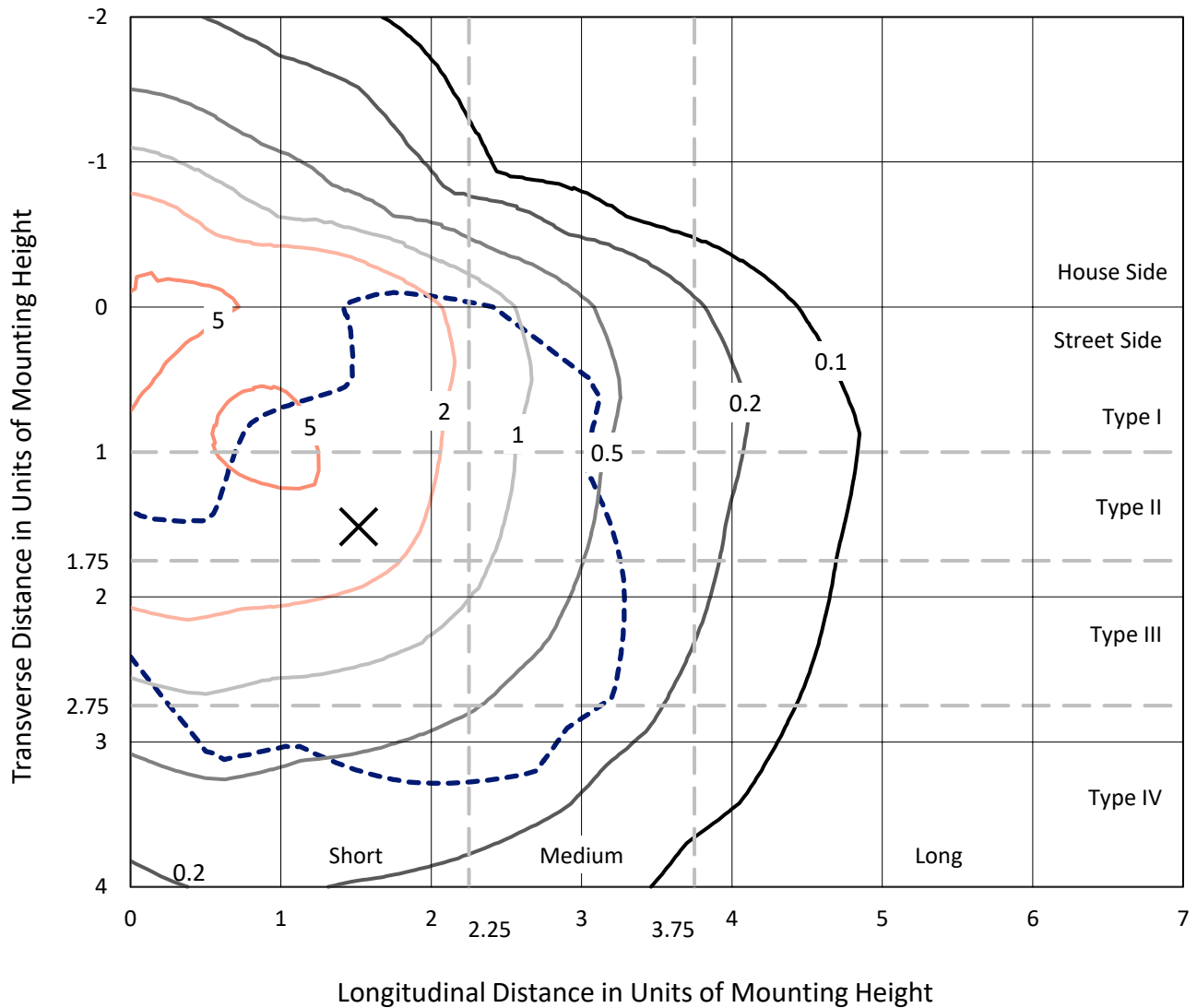
Lumens per Lamp: N/A  
Luminaire Lumens: 26006 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

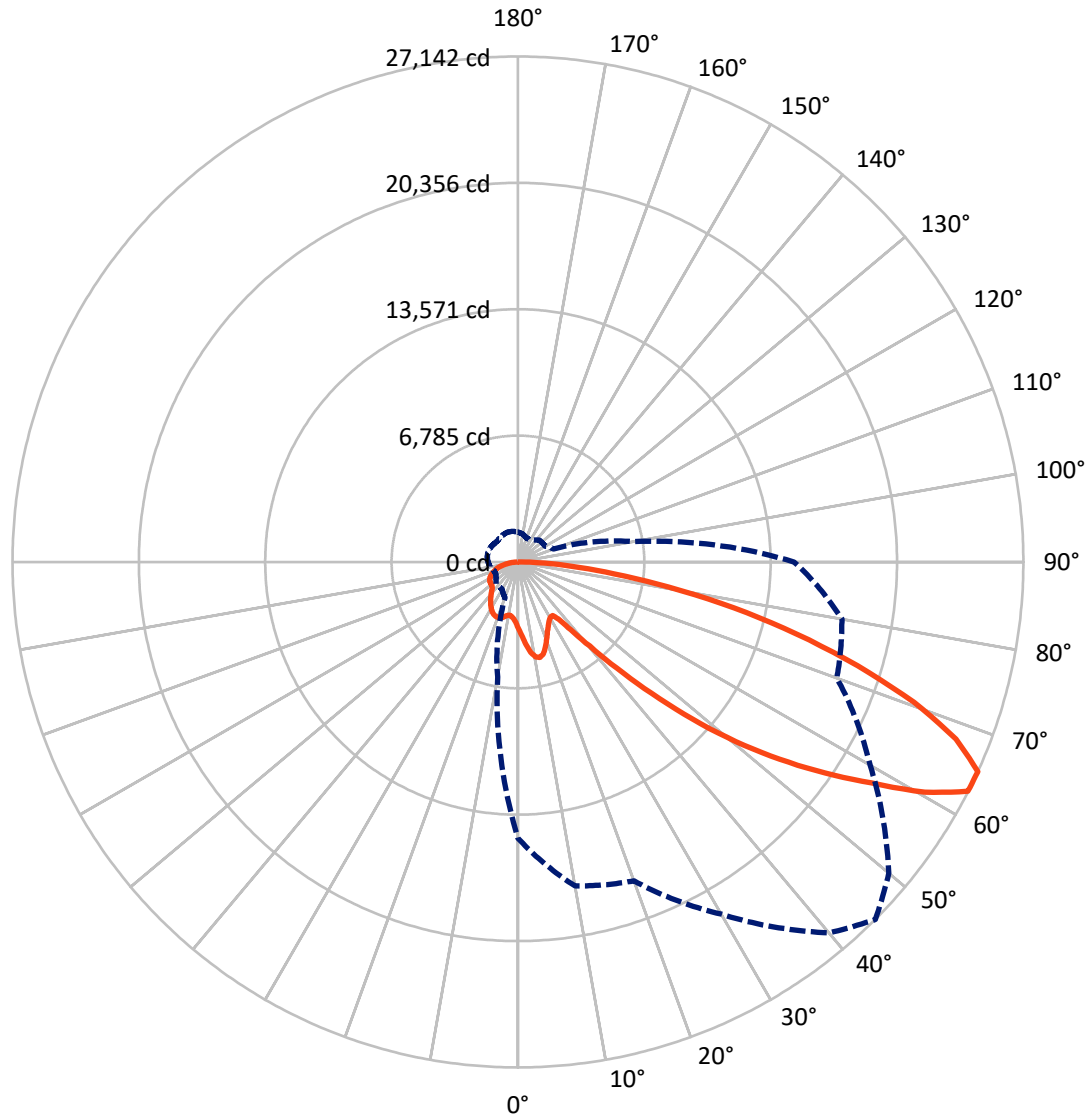
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6609.4   | 0.0    | 6609.4  |
|                    | % Fixture | 25.4     | 0.0    | 25.4    |
| <b>Street Side</b> | Lumens    | 19396.6  | 0.0    | 19396.6 |
|                    | % Fixture | 74.6     | 0.0    | 74.6    |
| <b>Total</b>       | Lumens    | 26006.0  | 0.0    | 26006.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 354.7   | 1.4       |
| 10°-20°   | 1113.6  | 4.3       |
| 20°-30°   | 1720.1  | 6.6       |
| 30°-40°   | 2179.8  | 8.4       |
| 40°-50°   | 3287.8  | 12.6      |
| 50°-60°   | 5311.9  | 20.4      |
| 60°-70°   | 6622.1  | 25.5      |
| 70°-80°   | 4342.4  | 16.7      |
| 80°-90°   | 1073.6  | 4.1       |
| 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°    | 26006.0 | 100.0     |
| 0°-180°   | 26006.0 | 100.0     |



REPORT NUMBER: P949985

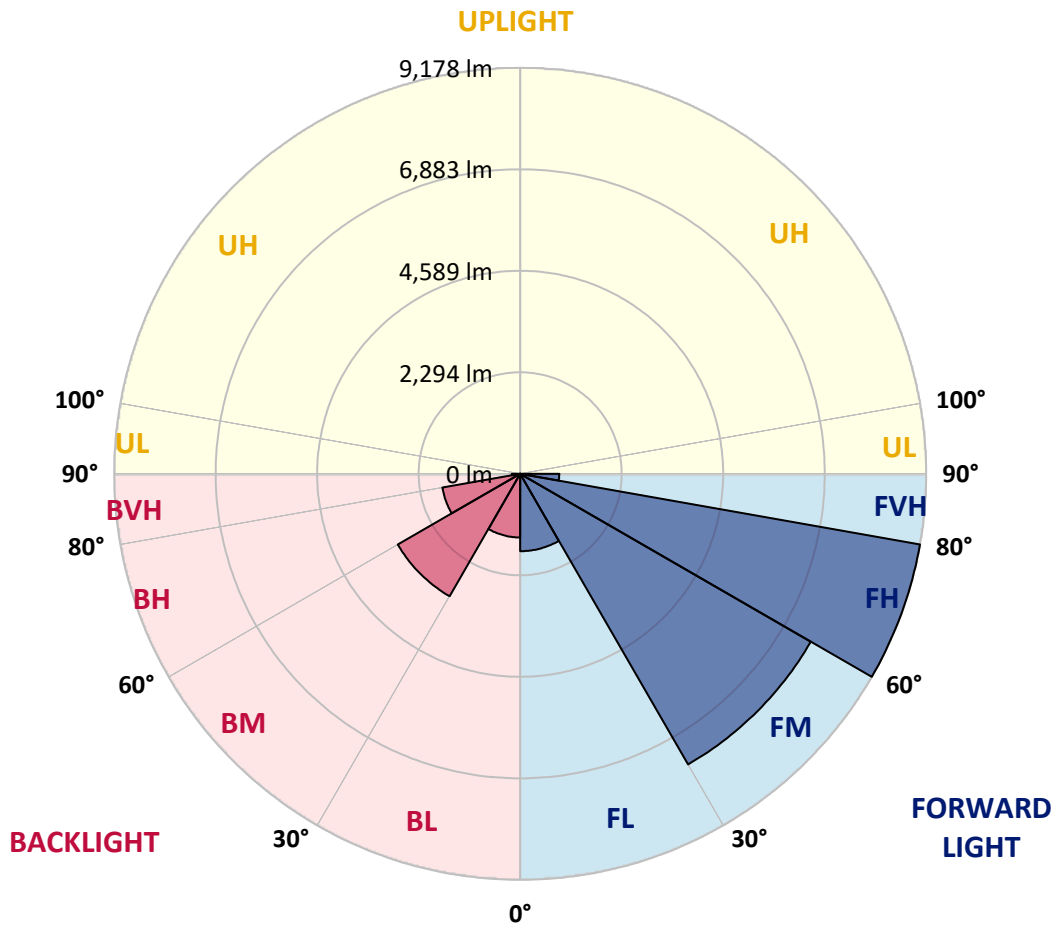
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1749.2 | 6.7       |                         |      |          |
| FM (30°-60°)   | 7585.4 | 29.2      |                         |      |          |
| FH (60°-80°)   | 9177.6 | 35.3      |                         |      | G4/12000 |
| FVH (80°-90°)  | 884.4  | 3.4       |                         |      | G5       |
| BL (0°-30°)    | 1439.3 | 5.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 3194.1 | 12.3      | B3/5000                 |      |          |
| BH (60°-80°)   | 1786.9 | 6.9       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 189.2  | 0.7       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**

Type IV Short



REPORT NUMBER: P949985  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  |
| 2.5°  | 3845.7  | 3860.2  | 3874.9  | 3895.6  | 3916.4  | 3928.7  | 3941.1  | 3947.2  | 3953.4  | 3950.7  |
| 5°    | 4135.2  | 4186.1  | 4237.2  | 4287.7  | 4338.3  | 4365.8  | 4393.2  | 4409.8  | 4426.6  | 4439.2  |
| 7.5°  | 4426.1  | 4509.0  | 4591.8  | 4666.3  | 4740.8  | 4785.7  | 4830.5  | 4854.8  | 4879.0  | 4890.7  |
| 10°   | 4649.1  | 4747.1  | 4845.1  | 4932.5  | 5019.9  | 5072.9  | 5125.6  | 5149.2  | 5172.6  | 5181.6  |
| 12.5° | 4785.7  | 4891.9  | 4998.0  | 5077.0  | 5155.8  | 5194.2  | 5232.6  | 5245.5  | 5258.4  | 5259.8  |
| 15°   | 4868.7  | 4960.4  | 5051.9  | 5101.4  | 5151.1  | 5152.5  | 5153.8  | 5140.1  | 5126.4  | 5110.2  |
| 17.5° | 4915.4  | 4977.2  | 5039.1  | 5040.1  | 5040.9  | 4985.3  | 4929.8  | 4878.9  | 4827.8  | 4791.9  |
| 20°   | 4966.8  | 4988.4  | 5010.0  | 4944.9  | 4879.7  | 4757.0  | 4634.3  | 4545.0  | 4455.7  | 4400.8  |
| 22.5° | 5026.5  | 4998.2  | 4970.0  | 4834.9  | 4699.9  | 4519.5  | 4339.0  | 4227.3  | 4115.6  | 4055.0  |
| 25°   | 5103.3  | 5014.2  | 4925.0  | 4719.9  | 4514.9  | 4295.8  | 4076.6  | 3959.2  | 3842.0  | 3784.6  |
| 27.5° | 5207.6  | 5048.2  | 4888.6  | 4617.0  | 4345.6  | 4102.7  | 3859.8  | 3744.3  | 3628.9  | 3574.7  |
| 30°   | 5348.3  | 5110.5  | 4872.8  | 4538.5  | 4204.3  | 3951.2  | 3698.2  | 3591.0  | 3483.8  | 3433.3  |
| 32.5° | 5514.3  | 5188.7  | 4863.2  | 4485.0  | 4106.8  | 3869.0  | 3631.2  | 3547.1  | 3462.8  | 3426.5  |
| 35°   | 5716.1  | 5317.6  | 4919.2  | 4525.1  | 4131.1  | 3965.9  | 3800.8  | 3781.2  | 3761.6  | 3758.6  |
| 37.5° | 6055.7  | 5586.9  | 5118.2  | 4760.0  | 4401.9  | 4391.2  | 4380.5  | 4470.2  | 4559.9  | 4606.6  |
| 40°   | 6568.9  | 6059.1  | 5549.3  | 5283.0  | 5016.6  | 5204.6  | 5392.6  | 5610.8  | 5829.0  | 5937.7  |
| 42.5° | 7249.5  | 6743.7  | 6237.9  | 6084.5  | 5931.1  | 6341.1  | 6751.1  | 7148.0  | 7544.8  | 7777.8  |
| 45°   | 8090.0  | 7635.7  | 7181.2  | 7113.5  | 7045.7  | 7702.6  | 8359.7  | 9011.8  | 9664.0  | 10059.9 |
| 47.5° | 9141.2  | 8699.2  | 8257.0  | 8243.3  | 8229.6  | 9177.2  | 10124.6 | 11079.3 | 12033.8 | 12594.4 |
| 50°   | 10518.9 | 9972.9  | 9427.0  | 9429.3  | 9431.7  | 10652.9 | 11874.2 | 13134.4 | 14394.5 | 15156.4 |
| 52.5° | 12100.4 | 11439.2 | 10778.2 | 10711.4 | 10644.4 | 12103.3 | 13562.1 | 15121.2 | 16680.2 | 17593.4 |
| 55°   | 13784.1 | 13130.9 | 12477.7 | 12217.2 | 11956.6 | 13580.2 | 15203.7 | 17062.4 | 18921.1 | 20007.2 |
| 57.5° | 15315.5 | 14959.9 | 14604.0 | 14081.3 | 13558.8 | 15198.2 | 16837.6 | 18942.9 | 21048.1 | 22394.9 |
| 60°   | 16241.1 | 16793.6 | 17346.2 | 16697.1 | 16048.0 | 17599.5 | 19150.9 | 21405.0 | 23659.0 | 25114.7 |
| 62.5° | 15771.1 | 17280.7 | 18790.3 | 18717.2 | 18643.9 | 20065.1 | 21486.5 | 23631.0 | 25775.4 | 27120.9 |
| 65°   | 14830.4 | 16247.3 | 17664.1 | 17944.5 | 18224.7 | 20030.8 | 21837.1 | 23916.6 | 25995.9 | 27141.5 |
| 67.5° | 13570.0 | 14917.6 | 16265.1 | 16396.6 | 16527.9 | 18409.8 | 20291.5 | 22379.9 | 24468.4 | 25365.8 |
| 70°   | 12055.8 | 13521.5 | 14987.3 | 15046.0 | 15104.9 | 16787.8 | 18470.6 | 20267.8 | 22064.9 | 22563.7 |
| 72.5° | 10251.3 | 11933.2 | 13615.3 | 13657.6 | 13699.7 | 15016.4 | 16333.0 | 17679.1 | 19025.0 | 19075.5 |
| 75°   | 7968.6  | 9709.4  | 11450.2 | 11606.5 | 11762.8 | 12787.2 | 13811.6 | 14759.1 | 15706.6 | 15452.8 |
| 77.5° | 5693.4  | 7318.4  | 8943.6  | 9167.2  | 9390.9  | 10169.6 | 10948.4 | 11620.4 | 12292.5 | 11856.1 |
| 80°   | 3726.3  | 5093.5  | 6460.5  | 6738.5  | 7016.5  | 7604.7  | 8192.5  | 8545.5  | 8898.3  | 8196.4  |
| 82.5° | 2166.1  | 3100.7  | 4035.5  | 4346.0  | 4656.7  | 5061.5  | 5466.3  | 5613.5  | 5760.6  | 5209.0  |
| 85°   | 953.0   | 1449.1  | 1945.1  | 2209.3  | 2473.5  | 2806.1  | 3138.6  | 3222.1  | 3305.7  | 2863.9  |
| 87.5° | 295.0   | 461.8   | 628.5   | 775.9   | 923.2   | 1089.6  | 1255.9  | 1263.0  | 1270.0  | 1066.2  |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P949985  
 CATALOG NUMBER: GALN-SB4C-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

| 50°     |       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°   |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 3576.0  | 0°    | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0  | 3576.0 |
| 3953.4  | 2.5°  | 3947.2  | 3941.1  | 3928.7  | 3916.4  | 3895.6  | 3874.9  | 3860.2  | 3845.7  | 3816.2  | 3786.7 |
| 4426.6  | 5°    | 4409.8  | 4393.2  | 4365.8  | 4338.3  | 4287.7  | 4237.2  | 4186.1  | 4135.2  | 4070.1  | 4004.9 |
| 4879.0  | 7.5°  | 4854.8  | 4830.5  | 4785.7  | 4740.8  | 4666.3  | 4591.8  | 4509.0  | 4426.1  | 4318.6  | 4211.1 |
| 5172.6  | 10°   | 5149.2  | 5125.6  | 5072.9  | 5019.9  | 4932.5  | 4845.1  | 4747.1  | 4649.1  | 4513.1  | 4377.2 |
| 5258.4  | 12.5° | 5245.5  | 5232.6  | 5194.2  | 5155.8  | 5077.0  | 4998.0  | 4891.9  | 4785.7  | 4636.2  | 4486.9 |
| 5126.4  | 15°   | 5140.1  | 5153.8  | 5152.5  | 5151.1  | 5101.4  | 5051.9  | 4960.4  | 4868.7  | 4712.9  | 4557.2 |
| 4827.8  | 17.5° | 4878.9  | 4929.8  | 4985.3  | 5040.9  | 5040.1  | 5039.1  | 4977.2  | 4915.4  | 4757.4  | 4599.5 |
| 4455.7  | 20°   | 4545.0  | 4634.3  | 4757.0  | 4879.7  | 4944.9  | 5010.0  | 4988.4  | 4966.8  | 4802.7  | 4638.4 |
| 4115.6  | 22.5° | 4227.3  | 4339.0  | 4519.5  | 4699.9  | 4834.9  | 4970.0  | 4998.2  | 5026.5  | 4858.8  | 4691.0 |
| 3842.0  | 25°   | 3959.2  | 4076.6  | 4295.8  | 4514.9  | 4719.9  | 4925.0  | 5014.2  | 5103.3  | 4939.0  | 4774.7 |
| 3628.9  | 27.5° | 3744.3  | 3859.8  | 4102.7  | 4345.6  | 4617.0  | 4888.6  | 5048.2  | 5207.6  | 5050.9  | 4894.1 |
| 3483.8  | 30°   | 3591.0  | 3698.2  | 3951.2  | 4204.3  | 4538.5  | 4872.8  | 5110.5  | 5348.3  | 5196.8  | 5045.4 |
| 3462.8  | 32.5° | 3547.1  | 3631.2  | 3869.0  | 4106.8  | 4485.0  | 4863.2  | 5188.7  | 5514.3  | 5364.3  | 5214.5 |
| 3761.6  | 35°   | 3781.2  | 3800.8  | 3965.9  | 4131.1  | 4525.1  | 4919.2  | 5317.6  | 5716.1  | 5572.5  | 5428.8 |
| 4559.9  | 37.5° | 4470.2  | 4380.5  | 4391.2  | 4401.9  | 4760.0  | 5118.2  | 5586.9  | 6055.7  | 5872.6  | 5689.6 |
| 5829.0  | 40°   | 5610.8  | 5392.6  | 5204.6  | 5016.6  | 5283.0  | 5549.3  | 6059.1  | 6568.9  | 6302.1  | 6035.4 |
| 7544.8  | 42.5° | 7148.0  | 6751.1  | 6341.1  | 5931.1  | 6084.5  | 6237.9  | 6743.7  | 7249.5  | 6864.5  | 6479.4 |
| 9664.0  | 45°   | 9011.8  | 8359.7  | 7702.6  | 7045.7  | 7113.5  | 7181.2  | 7635.7  | 8090.0  | 7570.6  | 7051.2 |
| 12033.8 | 47.5° | 11079.3 | 10124.6 | 9177.2  | 8229.6  | 8243.3  | 8257.0  | 8699.2  | 9141.2  | 8410.2  | 7679.0 |
| 14394.5 | 50°   | 13134.4 | 11874.2 | 10652.9 | 9431.7  | 9429.3  | 9427.0  | 9972.9  | 10518.9 | 9416.8  | 8314.7 |
| 16680.2 | 52.5° | 15121.2 | 13562.1 | 12103.3 | 10644.4 | 10711.4 | 10778.2 | 11439.2 | 12100.4 | 10474.3 | 8848.2 |
| 18921.1 | 55°   | 17062.4 | 15203.7 | 13580.2 | 11956.6 | 12217.2 | 12477.7 | 13130.9 | 13784.1 | 11411.8 | 9039.6 |
| 21048.1 | 57.5° | 18942.9 | 16837.6 | 15198.2 | 13558.8 | 14081.3 | 14604.0 | 14959.9 | 15315.5 | 12076.2 | 8836.9 |
| 23659.0 | 60°   | 21405.0 | 19150.9 | 17599.5 | 16048.0 | 16697.1 | 17346.2 | 16793.6 | 16241.1 | 12242.3 | 8243.3 |
| 25775.4 | 62.5° | 23631.0 | 21486.5 | 20065.1 | 18643.9 | 18717.2 | 18790.3 | 17280.7 | 15771.1 | 11543.1 | 7315.1 |
| 25995.9 | 65°   | 23916.6 | 21837.1 | 20030.8 | 18224.7 | 17944.5 | 17664.1 | 16247.3 | 14830.4 | 10553.9 | 6277.3 |
| 24468.4 | 67.5° | 22379.9 | 20291.5 | 18409.8 | 16527.9 | 16396.6 | 16265.1 | 14917.6 | 13570.0 | 9376.6  | 5183.2 |
| 22064.9 | 70°   | 20267.8 | 18470.6 | 16787.8 | 15104.9 | 15046.0 | 14987.3 | 13521.5 | 12055.8 | 8092.1  | 4128.4 |
| 19025.0 | 72.5° | 17679.1 | 16333.0 | 15016.4 | 13699.7 | 13657.6 | 13615.3 | 11933.2 | 10251.3 | 6699.5  | 3147.9 |
| 15706.6 | 75°   | 14759.1 | 13811.6 | 12787.2 | 11762.8 | 11606.5 | 11450.2 | 9709.4  | 7968.6  | 5103.2  | 2237.8 |
| 12292.5 | 77.5° | 11620.4 | 10948.4 | 10169.6 | 9390.9  | 9167.2  | 8943.6  | 7318.4  | 5693.4  | 3571.8  | 1450.2 |
| 8898.3  | 80°   | 8545.5  | 8192.5  | 7604.7  | 7016.5  | 6738.5  | 6460.5  | 5093.5  | 3726.3  | 2301.2  | 876.2  |
| 5760.6  | 82.5° | 5613.5  | 5466.3  | 5061.5  | 4656.7  | 4346.0  | 4035.5  | 3100.7  | 2166.1  | 1331.9  | 497.8  |
| 3305.7  | 85°   | 3222.1  | 3138.6  | 2806.1  | 2473.5  | 2209.3  | 1945.1  | 1449.1  | 953.0   | 599.1   | 245.4  |
| 1270.0  | 87.5° | 1263.0  | 1255.9  | 1089.6  | 923.2   | 775.9   | 628.5   | 461.8   | 295.0   | 196.2   | 97.4   |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |

REPORT NUMBER: P949985  
 CATALOG NUMBER: GALN-SB4C-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

| 105°   |       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3576.0 | 0°    | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 |
| 3755.3 | 2.5°  | 3724.0 | 3692.4 | 3660.9 | 3630.7 | 3600.5 | 3571.2 | 3538.7 | 3512.4 | 3486.2 | 3462.4 |
| 3939.8 | 5°    | 3874.9 | 3809.5 | 3744.1 | 3683.1 | 3622.0 | 3564.4 | 3507.4 | 3457.8 | 3407.9 | 3366.2 |
| 4111.8 | 7.5°  | 4012.4 | 3915.7 | 3818.9 | 3733.7 | 3648.5 | 3569.9 | 3496.2 | 3430.0 | 3364.0 | 3309.1 |
| 4245.8 | 10°   | 4114.7 | 3997.2 | 3879.6 | 3778.9 | 3677.9 | 3580.9 | 3501.7 | 3432.0 | 3362.3 | 3307.4 |
| 4338.2 | 12.5° | 4189.4 | 4050.8 | 3912.2 | 3798.2 | 3684.2 | 3582.2 | 3508.5 | 3451.4 | 3394.6 | 3358.1 |
| 4395.8 | 15°   | 4234.4 | 4074.9 | 3915.3 | 3783.3 | 3651.2 | 3538.3 | 3479.3 | 3452.0 | 3424.8 | 3429.8 |
| 4423.4 | 17.5° | 4247.3 | 4062.1 | 3876.8 | 3718.1 | 3559.3 | 3426.5 | 3390.1 | 3400.1 | 3410.0 | 3469.8 |
| 4444.9 | 20°   | 4251.5 | 4027.0 | 3802.5 | 3605.7 | 3408.9 | 3254.3 | 3244.7 | 3291.3 | 3338.0 | 3441.8 |
| 4474.0 | 22.5° | 4257.0 | 3983.9 | 3710.8 | 3473.8 | 3236.8 | 3060.8 | 3079.6 | 3148.6 | 3217.6 | 3336.2 |
| 4526.7 | 25°   | 4278.6 | 3941.3 | 3604.2 | 3326.6 | 3049.1 | 2868.7 | 2919.4 | 2999.0 | 3078.6 | 3185.2 |
| 4609.1 | 27.5° | 4323.9 | 3912.9 | 3501.9 | 3192.0 | 2882.0 | 2717.7 | 2779.5 | 2856.3 | 2933.2 | 3020.8 |
| 4715.7 | 30°   | 4385.9 | 3899.6 | 3413.0 | 3079.4 | 2745.8 | 2607.9 | 2656.4 | 2717.3 | 2778.5 | 2851.2 |
| 4827.0 | 32.5° | 4439.5 | 3883.2 | 3326.6 | 2982.4 | 2638.1 | 2527.0 | 2548.5 | 2584.6 | 2620.7 | 2678.7 |
| 4953.8 | 35°   | 4478.7 | 3852.1 | 3225.9 | 2887.0 | 2548.2 | 2455.6 | 2446.7 | 2456.6 | 2466.6 | 2510.9 |
| 5095.8 | 37.5° | 4502.0 | 3799.0 | 3096.0 | 2774.8 | 2453.6 | 2372.6 | 2339.9 | 2329.0 | 2318.0 | 2349.8 |
| 5276.1 | 40°   | 4516.7 | 3725.9 | 2935.2 | 2640.9 | 2346.5 | 2273.1 | 2223.0 | 2198.2 | 2173.3 | 2196.3 |
| 5512.0 | 42.5° | 4544.6 | 3650.4 | 2756.5 | 2493.1 | 2229.6 | 2162.0 | 2098.8 | 2065.9 | 2033.0 | 2051.6 |
| 5822.4 | 45°   | 4593.6 | 3580.3 | 2567.2 | 2336.1 | 2105.0 | 2036.4 | 1975.3 | 1943.2 | 1911.3 | 1926.9 |
| 6153.1 | 47.5° | 4627.2 | 3522.4 | 2417.6 | 2211.9 | 2006.2 | 1917.7 | 1865.1 | 1838.2 | 1811.4 | 1826.2 |
| 6459.9 | 50°   | 4605.2 | 3459.3 | 2313.3 | 2129.4 | 1945.6 | 1829.2 | 1768.1 | 1744.3 | 1720.5 | 1743.6 |
| 6659.2 | 52.5° | 4470.1 | 3352.6 | 2235.4 | 2075.1 | 1915.0 | 1781.2 | 1695.8 | 1672.2 | 1648.7 | 1683.5 |
| 6615.3 | 55°   | 4190.8 | 3175.9 | 2161.0 | 2035.7 | 1910.4 | 1786.0 | 1657.4 | 1620.1 | 1582.9 | 1632.1 |
| 6306.3 | 57.5° | 3775.7 | 2926.7 | 2077.6 | 1989.1 | 1900.5 | 1790.8 | 1634.3 | 1580.0 | 1525.7 | 1578.6 |
| 5731.1 | 60°   | 3219.0 | 2603.1 | 1987.3 | 1917.7 | 1848.1 | 1775.7 | 1612.7 | 1542.3 | 1471.7 | 1518.2 |
| 4953.5 | 62.5° | 2591.9 | 2215.9 | 1839.9 | 1793.7 | 1747.5 | 1738.6 | 1587.4 | 1499.3 | 1411.3 | 1440.8 |
| 4160.1 | 65°   | 2043.0 | 1867.5 | 1692.0 | 1670.1 | 1648.3 | 1649.4 | 1534.2 | 1440.6 | 1346.9 | 1358.2 |
| 3382.8 | 67.5° | 1582.5 | 1532.7 | 1482.7 | 1494.9 | 1507.0 | 1504.0 | 1439.2 | 1361.3 | 1283.3 | 1279.7 |
| 2663.5 | 70°   | 1198.6 | 1212.9 | 1227.1 | 1283.6 | 1340.0 | 1340.0 | 1318.7 | 1263.3 | 1207.8 | 1195.5 |
| 2036.3 | 72.5° | 924.6  | 967.6  | 1010.7 | 1090.8 | 1170.8 | 1184.2 | 1184.5 | 1146.5 | 1108.5 | 1090.4 |
| 1477.9 | 75°   | 718.0  | 756.9  | 795.9  | 885.6  | 975.4  | 1037.4 | 1032.2 | 1003.0 | 973.6  | 956.3  |
| 1001.5 | 77.5° | 552.7  | 579.2  | 605.8  | 693.0  | 780.1  | 882.3  | 879.6  | 856.1  | 832.7  | 815.1  |
| 645.2  | 80°   | 414.4  | 425.4  | 436.4  | 510.2  | 583.9  | 706.0  | 705.6  | 686.0  | 666.2  | 651.5  |
| 396.9  | 82.5° | 296.1  | 298.0  | 300.2  | 354.6  | 408.9  | 513.2  | 519.0  | 509.4  | 499.8  | 489.3  |
| 212.1  | 85°   | 179.1  | 178.1  | 177.0  | 216.8  | 256.6  | 334.1  | 341.7  | 331.4  | 321.1  | 309.4  |
| 88.0   | 87.5° | 78.5   | 77.5   | 76.6   | 92.8   | 109.1  | 141.3  | 150.9  | 146.8  | 142.7  | 140.5  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P949985  
 CATALOG NUMBER: GALN-SB4C-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

| 160°   |       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3576.0 | 0°    | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 |
| 3438.8 | 2.5°  | 3418.1 | 3397.4 | 3376.5 | 3355.8 | 3339.7 | 3323.6 | 3310.5 | 3297.5 | 3287.3 | 3277.2 |
| 3324.7 | 5°    | 3287.9 | 3251.1 | 3217.8 | 3184.3 | 3158.6 | 3132.8 | 3114.8 | 3096.9 | 3084.1 | 3071.3 |
| 3254.3 | 7.5°  | 3208.0 | 3161.6 | 3120.7 | 3080.0 | 3049.4 | 3018.9 | 2997.5 | 2976.1 | 2961.4 | 2946.9 |
| 3252.5 | 10°   | 3202.7 | 3152.7 | 3106.7 | 3060.8 | 3024.3 | 2987.6 | 2963.8 | 2939.6 | 2925.7 | 2911.9 |
| 3321.9 | 12.5° | 3282.7 | 3243.7 | 3196.1 | 3148.6 | 3101.9 | 3055.3 | 3024.4 | 2993.5 | 2978.0 | 2962.7 |
| 3434.7 | 15°   | 3424.6 | 3414.4 | 3373.1 | 3331.8 | 3265.4 | 3199.0 | 3152.0 | 3105.1 | 3083.6 | 3062.1 |
| 3529.7 | 17.5° | 3561.5 | 3593.2 | 3559.9 | 3526.6 | 3438.7 | 3350.7 | 3281.6 | 3212.4 | 3180.6 | 3148.6 |
| 3545.9 | 20°   | 3612.4 | 3679.0 | 3663.6 | 3648.1 | 3547.5 | 3447.1 | 3362.3 | 3277.6 | 3236.8 | 3195.9 |
| 3455.0 | 22.5° | 3541.6 | 3628.2 | 3637.5 | 3646.7 | 3550.7 | 3454.6 | 3367.3 | 3279.9 | 3237.0 | 3193.9 |
| 3292.0 | 25°   | 3377.2 | 3462.4 | 3494.3 | 3526.0 | 3447.2 | 3368.6 | 3290.9 | 3213.5 | 3176.2 | 3139.0 |
| 3108.4 | 27.5° | 3176.7 | 3245.1 | 3280.5 | 3316.0 | 3259.9 | 3203.9 | 3143.7 | 3083.4 | 3058.4 | 3033.3 |
| 2924.0 | 30°   | 2980.6 | 3037.4 | 3066.3 | 3095.1 | 3052.4 | 3009.6 | 2966.5 | 2923.1 | 2910.4 | 2897.5 |
| 2736.9 | 32.5° | 2791.3 | 2845.7 | 2877.7 | 2909.8 | 2870.6 | 2831.2 | 2796.8 | 2762.3 | 2753.9 | 2745.6 |
| 2555.1 | 35°   | 2608.9 | 2662.8 | 2701.2 | 2739.7 | 2711.7 | 2683.8 | 2652.0 | 2620.3 | 2607.5 | 2594.9 |
| 2381.5 | 37.5° | 2435.2 | 2489.0 | 2536.4 | 2583.9 | 2571.0 | 2558.1 | 2528.9 | 2499.5 | 2476.3 | 2453.3 |
| 2219.2 | 40°   | 2271.1 | 2322.9 | 2377.5 | 2432.3 | 2435.4 | 2438.5 | 2413.6 | 2388.8 | 2355.0 | 2321.6 |
| 2070.4 | 42.5° | 2119.6 | 2168.8 | 2227.8 | 2286.8 | 2302.6 | 2318.4 | 2297.4 | 2276.5 | 2234.7 | 2192.8 |
| 1942.8 | 45°   | 1989.5 | 2036.1 | 2097.3 | 2158.5 | 2181.2 | 2203.8 | 2184.9 | 2166.1 | 2118.2 | 2070.4 |
| 1840.9 | 47.5° | 1886.6 | 1932.1 | 1992.5 | 2052.9 | 2078.9 | 2105.0 | 2091.8 | 2078.7 | 2036.1 | 1993.6 |
| 1766.8 | 50°   | 1809.8 | 1852.8 | 1906.9 | 1960.9 | 1994.4 | 2027.9 | 2027.1 | 2026.5 | 1992.5 | 1958.5 |
| 1718.0 | 52.5° | 1757.6 | 1796.9 | 1847.3 | 1897.8 | 1937.5 | 1977.1 | 1984.3 | 1991.4 | 1963.7 | 1936.0 |
| 1681.3 | 55°   | 1723.8 | 1766.3 | 1810.5 | 1854.6 | 1896.6 | 1938.7 | 1948.6 | 1958.5 | 1934.3 | 1910.2 |
| 1631.6 | 57.5° | 1681.5 | 1731.5 | 1775.1 | 1818.9 | 1861.3 | 1903.6 | 1913.6 | 1923.6 | 1899.2 | 1874.7 |
| 1564.6 | 60°   | 1622.0 | 1679.3 | 1723.7 | 1768.1 | 1810.7 | 1853.2 | 1864.2 | 1875.2 | 1851.3 | 1827.5 |
| 1470.4 | 62.5° | 1537.2 | 1604.1 | 1651.5 | 1698.8 | 1737.8 | 1776.8 | 1787.3 | 1797.9 | 1776.4 | 1754.8 |
| 1369.5 | 65°   | 1441.1 | 1512.9 | 1558.2 | 1603.5 | 1637.8 | 1672.1 | 1682.9 | 1693.6 | 1672.9 | 1652.2 |
| 1276.2 | 67.5° | 1342.3 | 1408.6 | 1451.6 | 1494.4 | 1524.0 | 1553.6 | 1564.2 | 1574.6 | 1555.6 | 1536.6 |
| 1183.1 | 70°   | 1241.3 | 1299.5 | 1336.6 | 1373.6 | 1400.4 | 1427.1 | 1437.3 | 1447.4 | 1431.9 | 1416.4 |
| 1072.4 | 72.5° | 1118.2 | 1163.9 | 1197.4 | 1230.9 | 1257.1 | 1283.3 | 1295.4 | 1307.5 | 1294.6 | 1281.7 |
| 938.9  | 75°   | 972.9  | 1006.9 | 1037.3 | 1067.6 | 1091.5 | 1115.4 | 1128.0 | 1140.6 | 1134.3 | 1128.0 |
| 797.5  | 77.5° | 825.3  | 852.8  | 878.9  | 905.0  | 930.1  | 955.1  | 966.9  | 978.7  | 969.9  | 960.8  |
| 636.7  | 80°   | 659.8  | 682.7  | 704.6  | 726.6  | 745.7  | 764.6  | 780.3  | 795.9  | 792.1  | 788.4  |
| 478.9  | 82.5° | 477.0  | 475.1  | 467.4  | 459.7  | 500.3  | 540.9  | 567.6  | 594.2  | 592.5  | 590.7  |
| 297.8  | 85°   | 287.9  | 277.9  | 256.6  | 235.3  | 273.3  | 311.5  | 344.4  | 377.4  | 374.6  | 371.9  |
| 138.3  | 87.5° | 137.9  | 137.5  | 121.3  | 105.0  | 120.9  | 136.9  | 150.3  | 163.6  | 160.3  | 156.7  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P949985  
 CATALOG NUMBER: GALN-SB4C-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

| 215°   |       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3576.0 | 0°    | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 |
| 3267.8 | 2.5°  | 3258.4 | 3246.7 | 3258.4 | 3267.8 | 3277.2 | 3287.3 | 3297.5 | 3310.5 | 3323.6 | 3339.7 |
| 3061.6 | 5°    | 3051.9 | 3042.2 | 3051.9 | 3061.6 | 3071.3 | 3084.1 | 3096.9 | 3114.8 | 3132.8 | 3158.6 |
| 2938.1 | 7.5°  | 2929.5 | 2922.9 | 2929.5 | 2938.1 | 2946.9 | 2961.4 | 2976.1 | 2997.5 | 3018.9 | 3049.4 |
| 2904.5 | 10°   | 2897.1 | 2894.0 | 2897.1 | 2904.5 | 2911.9 | 2925.7 | 2939.6 | 2963.8 | 2987.6 | 3024.3 |
| 2956.3 | 12.5° | 2950.0 | 2948.9 | 2950.0 | 2956.3 | 2962.7 | 2978.0 | 2993.5 | 3024.4 | 3055.3 | 3101.9 |
| 3053.9 | 15°   | 3045.7 | 3045.0 | 3045.7 | 3053.9 | 3062.1 | 3083.6 | 3105.1 | 3152.0 | 3199.0 | 3265.4 |
| 3138.2 | 17.5° | 3127.6 | 3126.0 | 3127.6 | 3138.2 | 3148.6 | 3180.6 | 3212.4 | 3281.6 | 3350.7 | 3438.7 |
| 3182.9 | 20°   | 3169.9 | 3165.8 | 3169.9 | 3182.9 | 3195.9 | 3236.8 | 3277.6 | 3362.3 | 3447.1 | 3547.5 |
| 3179.5 | 22.5° | 3165.1 | 3158.9 | 3165.1 | 3179.5 | 3193.9 | 3237.0 | 3279.9 | 3367.3 | 3454.6 | 3550.7 |
| 3125.4 | 25°   | 3112.0 | 3104.0 | 3112.0 | 3125.4 | 3139.0 | 3176.2 | 3213.5 | 3290.9 | 3368.6 | 3447.2 |
| 3027.2 | 27.5° | 3021.0 | 3018.9 | 3021.0 | 3027.2 | 3033.3 | 3058.4 | 3083.4 | 3143.7 | 3203.9 | 3259.9 |
| 2897.5 | 30°   | 2897.5 | 2899.5 | 2897.5 | 2897.5 | 2897.5 | 2910.4 | 2923.1 | 2966.5 | 3009.6 | 3052.4 |
| 2746.7 | 32.5° | 2747.9 | 2750.0 | 2747.9 | 2746.7 | 2745.6 | 2753.9 | 2762.3 | 2796.8 | 2831.2 | 2870.6 |
| 2592.2 | 35°   | 2589.4 | 2588.0 | 2589.4 | 2592.2 | 2594.9 | 2607.5 | 2620.3 | 2652.0 | 2683.8 | 2711.7 |
| 2441.1 | 37.5° | 2428.9 | 2422.0 | 2428.9 | 2441.1 | 2453.3 | 2476.3 | 2499.5 | 2528.9 | 2558.1 | 2571.0 |
| 2298.8 | 40°   | 2276.3 | 2262.8 | 2276.3 | 2298.8 | 2321.6 | 2355.0 | 2388.8 | 2413.6 | 2438.5 | 2435.4 |
| 2159.8 | 42.5° | 2126.7 | 2105.0 | 2126.7 | 2159.8 | 2192.8 | 2234.7 | 2276.5 | 2297.4 | 2318.4 | 2302.6 |
| 2031.6 | 45°   | 1992.8 | 1967.8 | 1992.8 | 2031.6 | 2070.4 | 2118.2 | 2166.1 | 2184.9 | 2203.8 | 2181.2 |
| 1957.6 | 47.5° | 1921.8 | 1897.8 | 1921.8 | 1957.6 | 1993.6 | 2036.1 | 2078.7 | 2091.8 | 2105.0 | 2078.9 |
| 1925.2 | 50°   | 1892.0 | 1869.0 | 1892.0 | 1925.2 | 1958.5 | 1992.5 | 2026.5 | 2027.1 | 2027.9 | 1994.4 |
| 1906.2 | 52.5° | 1876.5 | 1855.3 | 1876.5 | 1906.2 | 1936.0 | 1963.7 | 1991.4 | 1984.3 | 1977.1 | 1937.5 |
| 1884.1 | 55°   | 1858.0 | 1838.8 | 1858.0 | 1884.1 | 1910.2 | 1934.3 | 1958.5 | 1948.6 | 1938.7 | 1896.6 |
| 1849.0 | 57.5° | 1823.0 | 1803.1 | 1823.0 | 1849.0 | 1874.7 | 1899.2 | 1923.6 | 1913.6 | 1903.6 | 1861.3 |
| 1800.9 | 60°   | 1774.3 | 1753.7 | 1774.3 | 1800.9 | 1827.5 | 1851.3 | 1875.2 | 1864.2 | 1853.2 | 1810.7 |
| 1726.8 | 62.5° | 1698.8 | 1674.1 | 1698.8 | 1726.8 | 1754.8 | 1776.4 | 1797.9 | 1787.3 | 1776.8 | 1737.8 |
| 1625.0 | 65°   | 1598.0 | 1576.7 | 1598.0 | 1625.0 | 1652.2 | 1672.9 | 1693.6 | 1682.9 | 1672.1 | 1637.8 |
| 1511.4 | 67.5° | 1486.1 | 1466.9 | 1486.1 | 1511.4 | 1536.6 | 1555.6 | 1574.6 | 1564.2 | 1553.6 | 1524.0 |
| 1392.3 | 70°   | 1368.1 | 1346.2 | 1368.1 | 1392.3 | 1416.4 | 1431.9 | 1447.4 | 1437.3 | 1427.1 | 1400.4 |
| 1258.6 | 72.5° | 1235.7 | 1214.4 | 1235.7 | 1258.6 | 1281.7 | 1294.6 | 1307.5 | 1295.4 | 1283.3 | 1257.1 |
| 1108.6 | 75°   | 1089.3 | 1069.0 | 1089.3 | 1108.6 | 1128.0 | 1134.3 | 1140.6 | 1128.0 | 1115.4 | 1091.5 |
| 941.4  | 77.5° | 921.9  | 905.7  | 921.9  | 941.4  | 960.8  | 969.9  | 978.7  | 966.9  | 955.1  | 930.1  |
| 762.1  | 80°   | 735.8  | 705.3  | 735.8  | 762.1  | 788.4  | 792.1  | 795.9  | 780.3  | 764.6  | 745.7  |
| 568.7  | 82.5° | 546.4  | 526.9  | 546.4  | 568.7  | 590.7  | 592.5  | 594.2  | 567.6  | 540.9  | 500.3  |
| 354.6  | 85°   | 337.3  | 319.7  | 337.3  | 354.6  | 371.9  | 374.6  | 377.4  | 344.4  | 311.5  | 273.3  |
| 147.9  | 87.5° | 138.9  | 130.4  | 138.9  | 147.9  | 156.7  | 160.3  | 163.6  | 150.3  | 136.9  | 120.9  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P949985  
 CATALOG NUMBER: GALN-SB4C-827-U-SLL

**CANDELA DISTRIBUTION (continued):**

| 270°   |       | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3576.0 | 0°    | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 |
| 3355.8 | 2.5°  | 3376.5 | 3397.4 | 3418.1 | 3438.8 | 3462.4 | 3486.2 | 3512.4 | 3538.7 | 3571.2 | 3600.5 |
| 3184.3 | 5°    | 3217.8 | 3251.1 | 3287.9 | 3324.7 | 3366.2 | 3407.9 | 3457.8 | 3507.4 | 3564.4 | 3622.0 |
| 3080.0 | 7.5°  | 3120.7 | 3161.6 | 3208.0 | 3254.3 | 3309.1 | 3364.0 | 3430.0 | 3496.2 | 3569.9 | 3648.5 |
| 3060.8 | 10°   | 3106.7 | 3152.7 | 3202.7 | 3252.5 | 3307.4 | 3362.3 | 3432.0 | 3501.7 | 3580.9 | 3677.9 |
| 3148.6 | 12.5° | 3196.1 | 3243.7 | 3282.7 | 3321.9 | 3358.1 | 3394.6 | 3451.4 | 3508.5 | 3582.2 | 3684.2 |
| 3331.8 | 15°   | 3373.1 | 3414.4 | 3424.6 | 3434.7 | 3429.8 | 3424.8 | 3452.0 | 3479.3 | 3538.3 | 3651.2 |
| 3526.6 | 17.5° | 3559.9 | 3593.2 | 3561.5 | 3529.7 | 3469.8 | 3410.0 | 3400.1 | 3390.1 | 3426.5 | 3559.3 |
| 3648.1 | 20°   | 3663.6 | 3679.0 | 3612.4 | 3545.9 | 3441.8 | 3338.0 | 3291.3 | 3244.7 | 3254.3 | 3408.9 |
| 3646.7 | 22.5° | 3637.5 | 3628.2 | 3541.6 | 3455.0 | 3336.2 | 3217.6 | 3148.6 | 3079.6 | 3060.8 | 3236.8 |
| 3526.0 | 25°   | 3494.3 | 3462.4 | 3377.2 | 3292.0 | 3185.2 | 3078.6 | 2999.0 | 2919.4 | 2868.7 | 3049.1 |
| 3316.0 | 27.5° | 3280.5 | 3245.1 | 3176.7 | 3108.4 | 3020.8 | 2933.2 | 2856.3 | 2779.5 | 2717.7 | 2882.0 |
| 3095.1 | 30°   | 3066.3 | 3037.4 | 2980.6 | 2924.0 | 2851.2 | 2778.5 | 2717.3 | 2656.4 | 2607.9 | 2745.8 |
| 2909.8 | 32.5° | 2877.7 | 2845.7 | 2791.3 | 2736.9 | 2678.7 | 2620.7 | 2584.6 | 2548.5 | 2527.0 | 2638.1 |
| 2739.7 | 35°   | 2701.2 | 2662.8 | 2608.9 | 2555.1 | 2510.9 | 2466.6 | 2456.6 | 2446.7 | 2455.6 | 2548.2 |
| 2583.9 | 37.5° | 2536.4 | 2489.0 | 2435.2 | 2381.5 | 2349.8 | 2318.0 | 2329.0 | 2339.9 | 2372.6 | 2453.6 |
| 2432.3 | 40°   | 2377.5 | 2322.9 | 2271.1 | 2219.2 | 2196.3 | 2173.3 | 2198.2 | 2223.0 | 2273.1 | 2346.5 |
| 2286.8 | 42.5° | 2227.8 | 2168.8 | 2119.6 | 2070.4 | 2051.6 | 2033.0 | 2065.9 | 2098.8 | 2162.0 | 2229.6 |
| 2158.5 | 45°   | 2097.3 | 2036.1 | 1989.5 | 1942.8 | 1926.9 | 1911.3 | 1943.2 | 1975.3 | 2036.4 | 2105.0 |
| 2052.9 | 47.5° | 1992.5 | 1932.1 | 1886.6 | 1840.9 | 1826.2 | 1811.4 | 1838.2 | 1865.1 | 1917.7 | 2006.2 |
| 1960.9 | 50°   | 1906.9 | 1852.8 | 1809.8 | 1766.8 | 1743.6 | 1720.5 | 1744.3 | 1768.1 | 1829.2 | 1945.6 |
| 1897.8 | 52.5° | 1847.3 | 1796.9 | 1757.6 | 1718.0 | 1683.5 | 1648.7 | 1672.2 | 1695.8 | 1781.2 | 1915.0 |
| 1854.6 | 55°   | 1810.5 | 1766.3 | 1723.8 | 1681.3 | 1632.1 | 1582.9 | 1620.1 | 1657.4 | 1786.0 | 1910.4 |
| 1818.9 | 57.5° | 1775.1 | 1731.5 | 1681.5 | 1631.6 | 1578.6 | 1525.7 | 1580.0 | 1634.3 | 1790.8 | 1900.5 |
| 1768.1 | 60°   | 1723.7 | 1679.3 | 1622.0 | 1564.6 | 1518.2 | 1471.7 | 1542.3 | 1612.7 | 1775.7 | 1848.1 |
| 1698.8 | 62.5° | 1651.5 | 1604.1 | 1537.2 | 1470.4 | 1440.8 | 1411.3 | 1499.3 | 1587.4 | 1738.6 | 1747.5 |
| 1603.5 | 65°   | 1558.2 | 1512.9 | 1441.1 | 1369.5 | 1358.2 | 1346.9 | 1440.6 | 1534.2 | 1649.4 | 1648.3 |
| 1494.4 | 67.5° | 1451.6 | 1408.6 | 1342.3 | 1276.2 | 1279.7 | 1283.3 | 1361.3 | 1439.2 | 1504.0 | 1507.0 |
| 1373.6 | 70°   | 1336.6 | 1299.5 | 1241.3 | 1183.1 | 1195.5 | 1207.8 | 1263.3 | 1318.7 | 1340.0 | 1340.0 |
| 1230.9 | 72.5° | 1197.4 | 1163.9 | 1118.2 | 1072.4 | 1090.4 | 1108.5 | 1146.5 | 1184.5 | 1184.2 | 1170.8 |
| 1067.6 | 75°   | 1037.3 | 1006.9 | 972.9  | 938.9  | 956.3  | 973.6  | 1003.0 | 1032.2 | 1037.4 | 975.4  |
| 905.0  | 77.5° | 878.9  | 852.8  | 825.3  | 797.5  | 815.1  | 832.7  | 856.1  | 879.6  | 882.3  | 780.1  |
| 726.6  | 80°   | 704.6  | 682.7  | 659.8  | 636.7  | 651.5  | 666.2  | 686.0  | 705.6  | 706.0  | 583.9  |
| 459.7  | 82.5° | 467.4  | 475.1  | 477.0  | 478.9  | 489.3  | 499.8  | 509.4  | 519.0  | 513.2  | 408.9  |
| 235.3  | 85°   | 256.6  | 277.9  | 287.9  | 297.8  | 309.4  | 321.1  | 331.4  | 341.7  | 334.1  | 256.6  |
| 105.0  | 87.5° | 121.3  | 137.5  | 137.9  | 138.3  | 140.5  | 142.7  | 146.8  | 150.9  | 141.3  | 109.1  |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P949985  
 CATALOG NUMBER: GALN-SB4C-827-U-SLL

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|--------|-------|--------|--------|--------|--------|--------|---------|---------|
| 3576.0 | 0°    | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0 | 3576.0  | 3576.0  |
| 3630.7 | 2.5°  | 3660.9 | 3692.4 | 3724.0 | 3755.3 | 3786.7 | 3816.2  | 3845.7  |
| 3683.1 | 5°    | 3744.1 | 3809.5 | 3874.9 | 3939.8 | 4004.9 | 4070.1  | 4135.2  |
| 3733.7 | 7.5°  | 3818.9 | 3915.7 | 4012.4 | 4111.8 | 4211.1 | 4318.6  | 4426.1  |
| 3778.9 | 10°   | 3879.6 | 3997.2 | 4114.7 | 4245.8 | 4377.2 | 4513.1  | 4649.1  |
| 3798.2 | 12.5° | 3912.2 | 4050.8 | 4189.4 | 4338.2 | 4486.9 | 4636.2  | 4785.7  |
| 3783.3 | 15°   | 3915.3 | 4074.9 | 4234.4 | 4395.8 | 4557.2 | 4712.9  | 4868.7  |
| 3718.1 | 17.5° | 3876.8 | 4062.1 | 4247.3 | 4423.4 | 4599.5 | 4757.4  | 4915.4  |
| 3605.7 | 20°   | 3802.5 | 4027.0 | 4251.5 | 4444.9 | 4638.4 | 4802.7  | 4966.8  |
| 3473.8 | 22.5° | 3710.8 | 3983.9 | 4257.0 | 4474.0 | 4691.0 | 4858.8  | 5026.5  |
| 3326.6 | 25°   | 3604.2 | 3941.3 | 4278.6 | 4526.7 | 4774.7 | 4939.0  | 5103.3  |
| 3192.0 | 27.5° | 3501.9 | 3912.9 | 4323.9 | 4609.1 | 4894.1 | 5050.9  | 5207.6  |
| 3079.4 | 30°   | 3413.0 | 3899.6 | 4385.9 | 4715.7 | 5045.4 | 5196.8  | 5348.3  |
| 2982.4 | 32.5° | 3326.6 | 3883.2 | 4439.5 | 4827.0 | 5214.5 | 5364.3  | 5514.3  |
| 2887.0 | 35°   | 3225.9 | 3852.1 | 4478.7 | 4953.8 | 5428.8 | 5572.5  | 5716.1  |
| 2774.8 | 37.5° | 3096.0 | 3799.0 | 4502.0 | 5095.8 | 5689.6 | 5872.6  | 6055.7  |
| 2640.9 | 40°   | 2935.2 | 3725.9 | 4516.7 | 5276.1 | 6035.4 | 6302.1  | 6568.9  |
| 2493.1 | 42.5° | 2756.5 | 3650.4 | 4544.6 | 5512.0 | 6479.4 | 6864.5  | 7249.5  |
| 2336.1 | 45°   | 2567.2 | 3580.3 | 4593.6 | 5822.4 | 7051.2 | 7570.6  | 8090.0  |
| 2211.9 | 47.5° | 2417.6 | 3522.4 | 4627.2 | 6153.1 | 7679.0 | 8410.2  | 9141.2  |
| 2129.4 | 50°   | 2313.3 | 3459.3 | 4605.2 | 6459.9 | 8314.7 | 9416.8  | 10518.9 |
| 2075.1 | 52.5° | 2235.4 | 3352.6 | 4470.1 | 6659.2 | 8848.2 | 10474.3 | 12100.4 |
| 2035.7 | 55°   | 2161.0 | 3175.9 | 4190.8 | 6615.3 | 9039.6 | 11411.8 | 13784.1 |
| 1989.1 | 57.5° | 2077.6 | 2926.7 | 3775.7 | 6306.3 | 8836.9 | 12076.2 | 15315.5 |
| 1917.7 | 60°   | 1987.3 | 2603.1 | 3219.0 | 5731.1 | 8243.3 | 12242.3 | 16241.1 |
| 1793.7 | 62.5° | 1839.9 | 2215.9 | 2591.9 | 4953.5 | 7315.1 | 11543.1 | 15771.1 |
| 1670.1 | 65°   | 1692.0 | 1867.5 | 2043.0 | 4160.1 | 6277.3 | 10553.9 | 14830.4 |
| 1494.9 | 67.5° | 1482.7 | 1532.7 | 1582.5 | 3382.8 | 5183.2 | 9376.6  | 13570.0 |
| 1283.6 | 70°   | 1227.1 | 1212.9 | 1198.6 | 2663.5 | 4128.4 | 8092.1  | 12055.8 |
| 1090.8 | 72.5° | 1010.7 | 967.6  | 924.6  | 2036.3 | 3147.9 | 6699.5  | 10251.3 |
| 885.6  | 75°   | 795.9  | 756.9  | 718.0  | 1477.9 | 2237.8 | 5103.2  | 7968.6  |
| 693.0  | 77.5° | 605.8  | 579.2  | 552.7  | 1001.5 | 1450.2 | 3571.8  | 5693.4  |
| 510.2  | 80°   | 436.4  | 425.4  | 414.4  | 645.2  | 876.2  | 2301.2  | 3726.3  |
| 354.6  | 82.5° | 300.2  | 298.0  | 296.1  | 396.9  | 497.8  | 1331.9  | 2166.1  |
| 216.8  | 85°   | 177.0  | 178.1  | 179.1  | 212.1  | 245.4  | 599.1   | 953.0   |
| 92.8   | 87.5° | 76.6   | 77.5   | 78.5   | 88.0   | 97.4   | 196.2   | 295.0   |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

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