

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: P942532

Luminaire Tested: **GALN-SB6C-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

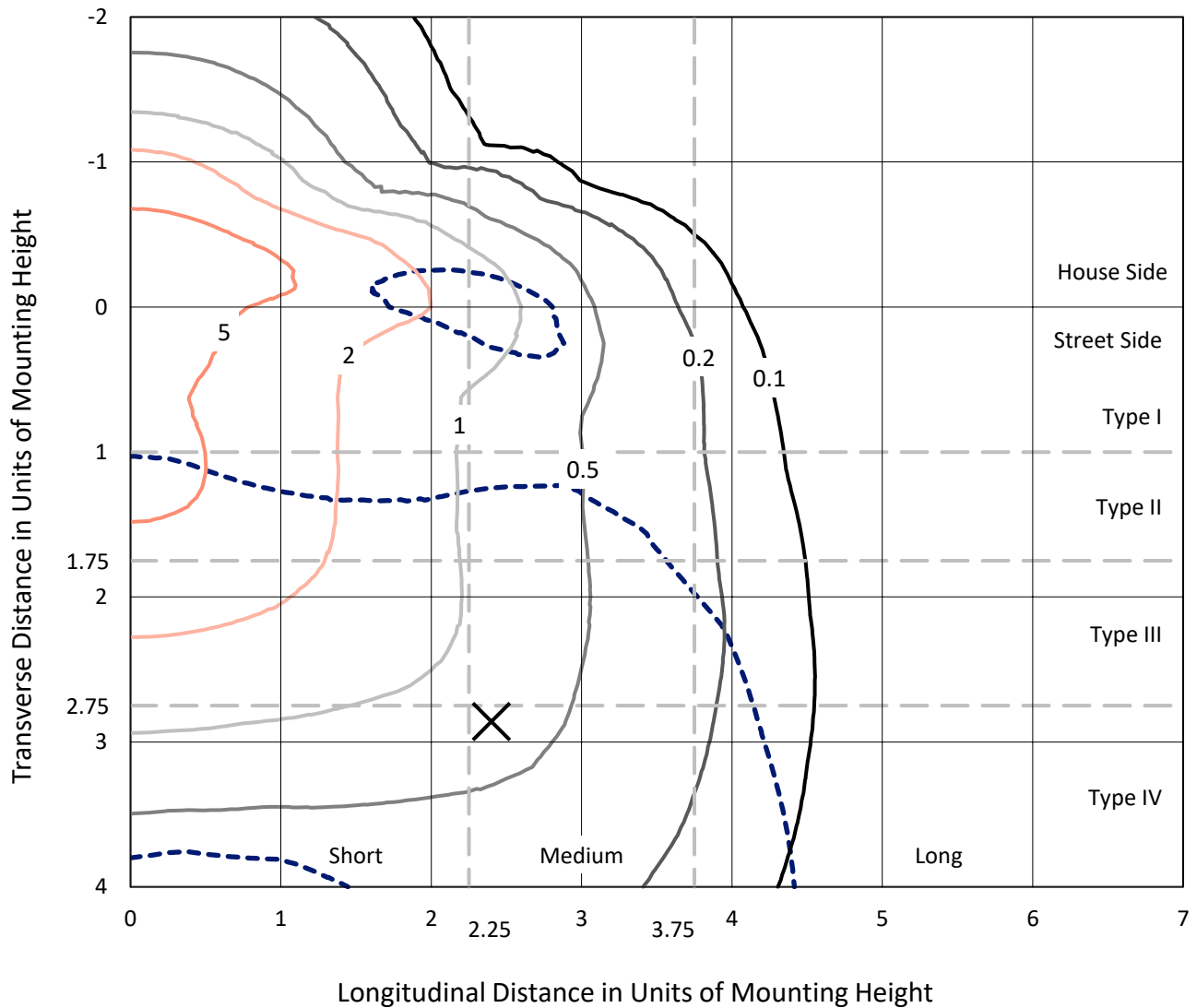
Lumens per Lamp: N/A  
Luminaire Lumens: 40451 lumens  
Efficiency: N/A  
Efficacy: 134.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

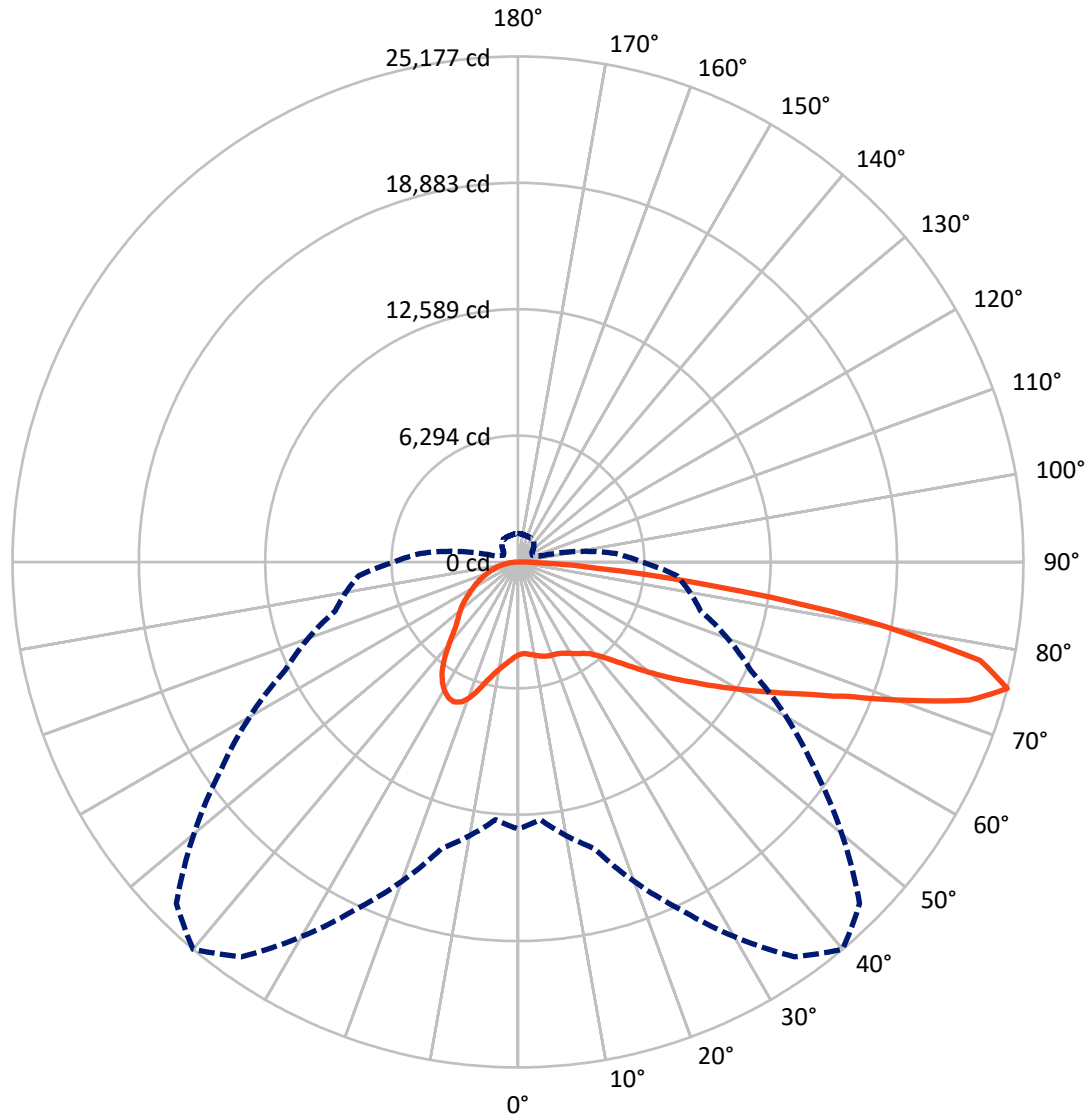
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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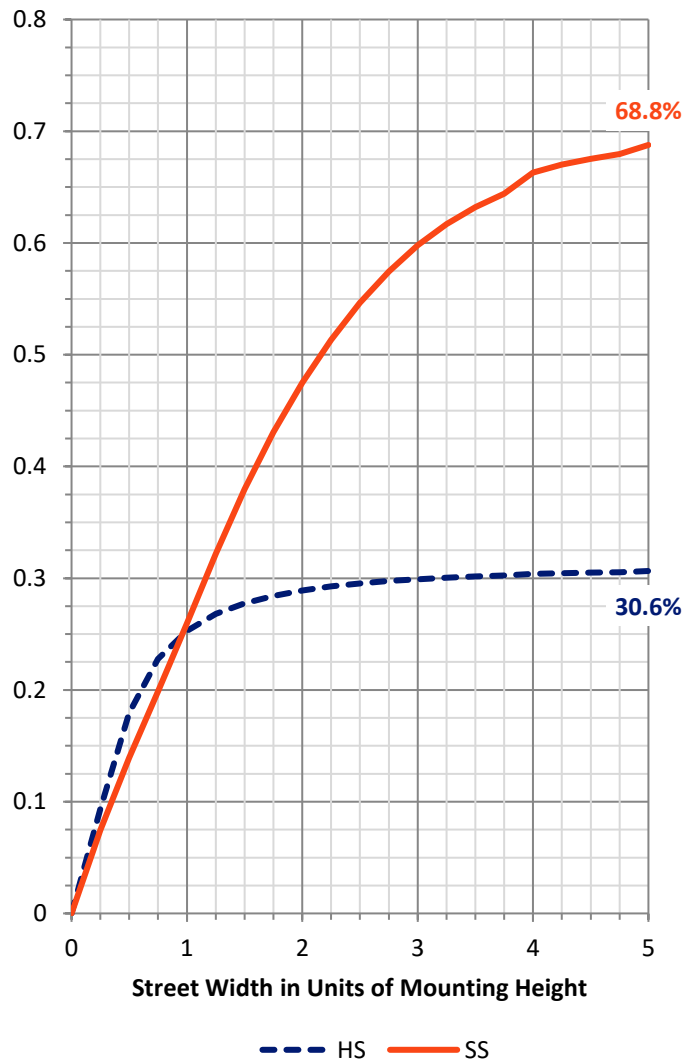
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12533.1  | 0.0    | 12533.1 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 27917.9  | 0.0    | 27917.9 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 40451.0  | 0.0    | 40451.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 461.7   | 1.1       |
| 10°-20°   | 1550.2  | 3.8       |
| 20°-30°   | 2830.6  | 7.0       |
| 30°-40°   | 4014.5  | 9.9       |
| 40°-50°   | 5420.8  | 13.4      |
| 50°-60°   | 7292.5  | 18.0      |
| 60°-70°   | 9255.9  | 22.9      |
| 70°-80°   | 8400.2  | 20.8      |
| 80°-90°   | 1224.5  | 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°    | 40451.0 | 100.0     |
| 0°-180°   | 40451.0 | 100.0     |



REPORT NUMBER: P942532

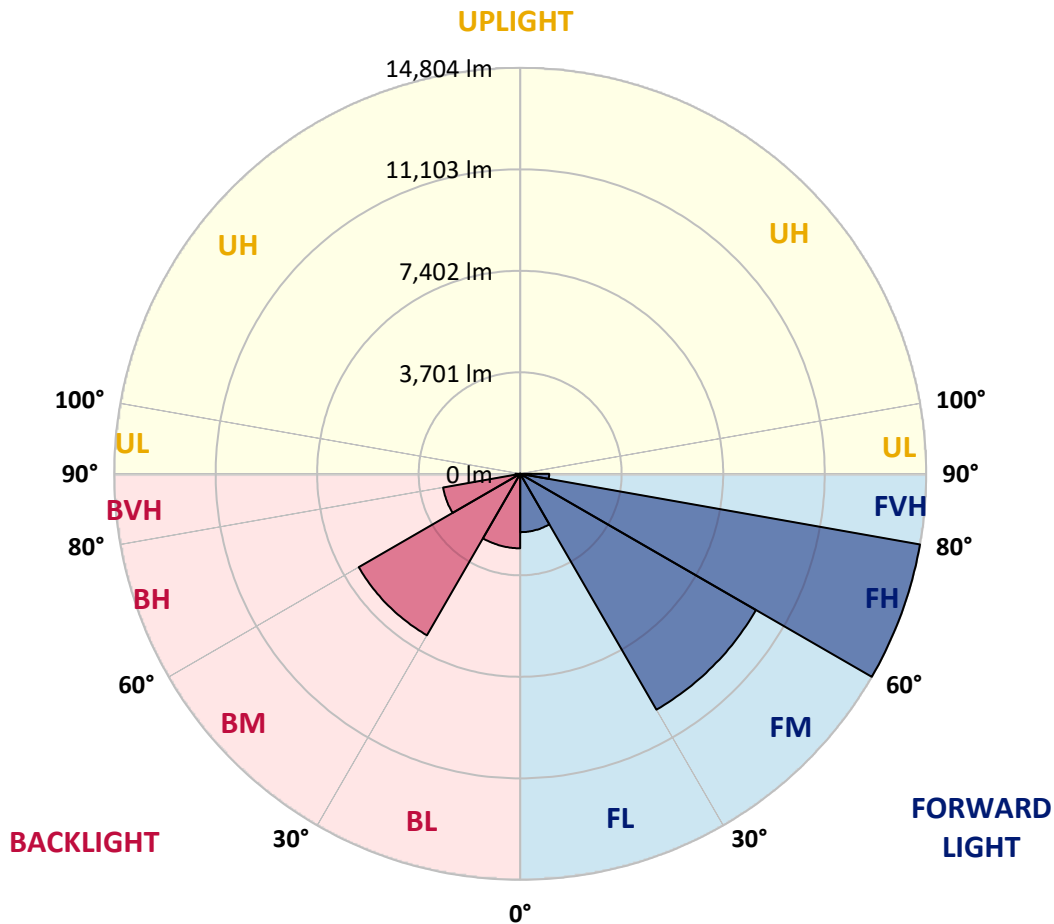
CATALOG NUMBER: GALN-SB6C-830-U-SL4

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2127.8  | 5.3       |                         |      |         |
| FM (30°-60°)   | 9929.8  | 24.5      |                         |      |         |
| FH (60°-80°)   | 14804.5 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 1055.9  | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 2714.8  | 6.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 6798.1  | 16.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 2851.6  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 168.6   | 0.4       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4625.6  | 4625.6  | 4625.6  | 4625.6  | 4625.6  | 4625.6  | 4625.6  | 4625.6  | 4625.6  | 4625.6  |
| 2.5°  | 4554.8  | 4580.6  | 4574.1  | 4565.6  | 4565.6  | 4567.7  | 4565.6  | 4580.6  | 4595.6  | 4610.6  |
| 5°    | 4602.0  | 4627.8  | 4614.9  | 4604.2  | 4595.6  | 4593.4  | 4587.0  | 4584.9  | 4593.4  | 4612.8  |
| 7.5°  | 4694.3  | 4720.0  | 4700.7  | 4681.4  | 4664.2  | 4655.7  | 4647.1  | 4634.2  | 4627.8  | 4638.5  |
| 10°   | 4797.3  | 4823.0  | 4799.4  | 4765.1  | 4737.2  | 4726.5  | 4717.9  | 4705.0  | 4696.4  | 4702.9  |
| 12.5° | 4900.2  | 4926.0  | 4893.8  | 4846.6  | 4810.1  | 4803.7  | 4793.0  | 4788.7  | 4786.5  | 4784.4  |
| 15°   | 4996.8  | 5018.2  | 4977.5  | 4921.7  | 4883.1  | 4872.4  | 4861.6  | 4868.1  | 4878.8  | 4891.7  |
| 17.5° | 5071.9  | 5093.3  | 5033.3  | 4960.3  | 4923.8  | 4919.6  | 4913.1  | 4934.6  | 4964.6  | 4996.8  |
| 20°   | 5140.5  | 5162.0  | 5084.8  | 4986.1  | 4943.2  | 4943.2  | 4945.3  | 4990.4  | 5033.3  | 5080.5  |
| 22.5° | 5237.1  | 5254.2  | 5159.8  | 5024.7  | 4962.5  | 4966.8  | 4983.9  | 5029.0  | 5082.6  | 5147.0  |
| 25°   | 5380.8  | 5393.7  | 5277.8  | 5097.6  | 5026.8  | 5039.7  | 5054.7  | 5076.2  | 5127.7  | 5202.8  |
| 27.5° | 5612.5  | 5623.3  | 5470.9  | 5226.4  | 5119.1  | 5140.5  | 5162.0  | 5147.0  | 5170.6  | 5234.9  |
| 30°   | 5938.7  | 5945.1  | 5752.0  | 5428.0  | 5275.7  | 5286.4  | 5290.7  | 5228.5  | 5183.4  | 5234.9  |
| 32.5° | 6324.8  | 6322.7  | 6093.1  | 5672.6  | 5453.8  | 5443.0  | 5406.6  | 5284.3  | 5179.2  | 5224.2  |
| 35°   | 6923.4  | 6899.8  | 6603.7  | 6015.9  | 5655.4  | 5588.9  | 5503.1  | 5346.5  | 5200.6  | 5213.5  |
| 37.5° | 7914.6  | 7841.7  | 7431.9  | 6578.0  | 5955.8  | 5786.3  | 5659.7  | 5447.3  | 5247.8  | 5209.2  |
| 40°   | 9032.4  | 8940.2  | 8489.6  | 7348.2  | 6406.4  | 6133.9  | 5930.1  | 5591.1  | 5325.0  | 5228.5  |
| 42.5° | 10358.3 | 10227.4 | 9742.6  | 8255.8  | 6977.1  | 6582.3  | 6275.5  | 5773.5  | 5438.8  | 5290.7  |
| 45°   | 11986.7 | 11812.9 | 11126.4 | 9279.1  | 7695.8  | 7170.1  | 6760.4  | 6050.2  | 5612.5  | 5410.9  |
| 47.5° | 13632.3 | 13675.2 | 12699.0 | 10450.6 | 8558.3  | 7895.3  | 7367.5  | 6466.4  | 5865.7  | 5604.0  |
| 50°   | 15380.8 | 15410.9 | 14263.1 | 11748.6 | 9536.6  | 8714.9  | 8049.8  | 6932.0  | 6217.6  | 5878.6  |
| 52.5° | 16745.4 | 16749.7 | 15683.4 | 13106.7 | 10555.7 | 9616.0  | 8785.7  | 7464.1  | 6625.2  | 6243.3  |
| 55°   | 17599.3 | 17588.5 | 16678.9 | 14391.8 | 11727.1 | 10562.1 | 9601.0  | 8069.1  | 7122.9  | 6672.4  |
| 57.5° | 18219.3 | 18187.1 | 17365.4 | 15496.7 | 12975.8 | 11679.9 | 10523.5 | 8755.6  | 7710.8  | 7183.0  |
| 60°   | 18455.3 | 18436.0 | 17831.0 | 16451.4 | 14288.8 | 12915.7 | 11587.7 | 9523.7  | 8378.0  | 7785.9  |
| 62.5° | 18545.4 | 18581.9 | 18288.0 | 17376.1 | 15694.1 | 14284.5 | 12756.9 | 10442.0 | 9129.0  | 8468.2  |
| 65°   | 18862.9 | 18929.5 | 18869.4 | 18586.2 | 17281.7 | 15887.2 | 14308.1 | 11534.0 | 9948.5  | 9199.8  |
| 67.5° | 19491.6 | 19558.1 | 19583.8 | 20034.4 | 19221.2 | 17884.6 | 16243.3 | 12894.3 | 10907.6 | 9959.3  |
| 70°   | 19476.5 | 19457.2 | 19912.1 | 21186.5 | 21649.9 | 20650.1 | 18852.2 | 14567.7 | 12051.1 | 10590.0 |
| 72.5° | 17728.0 | 17573.5 | 18648.4 | 21173.6 | 23670.9 | 23537.9 | 22038.2 | 16726.1 | 13038.0 | 10667.3 |
| 75°   | 13299.7 | 12887.8 | 14786.6 | 19081.8 | 24007.8 | 25177.0 | 24063.6 | 18064.8 | 12804.1 | 9425.0  |
| 77.5° | 5687.6  | 5273.6  | 7511.3  | 14125.8 | 21486.8 | 23535.8 | 22205.6 | 15760.6 | 10221.0 | 6232.6  |
| 80°   | 1489.0  | 1486.8  | 2269.9  | 6404.2  | 14612.8 | 17380.4 | 15247.8 | 10178.1 | 5840.0  | 2227.0  |
| 82.5° | 615.7   | 600.7   | 834.6   | 2490.9  | 7140.1  | 9753.3  | 7959.7  | 4539.8  | 2109.0  | 602.9   |
| 85°   | 229.6   | 227.4   | 405.5   | 860.3   | 2518.8  | 4022.7  | 2911.4  | 1160.7  | 525.6   | 293.9   |
| 87.5° | 64.4    | 62.2    | 88.0    | 298.2   | 613.6   | 931.1   | 497.7   | 190.9   | 148.0   | 115.9   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P942532  
 CATALOG NUMBER: GALN-SB6C-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4625.6  | 0°    | 4625.6  | 4625.6  | 4625.6  | 4625.6 | 4625.6 | 4625.6 | 4625.6 | 4625.6 | 4625.6 | 4625.6 |
| 4634.2  | 2.5°  | 4640.6  | 4651.4  | 4670.7  | 4685.7 | 4705.0 | 4726.5 | 4756.5 | 4775.8 | 4795.1 | 4808.0 |
| 4644.9  | 5°    | 4660.0  | 4683.6  | 4732.9  | 4782.2 | 4840.2 | 4893.8 | 4956.0 | 5001.1 | 5037.6 | 5048.3 |
| 4683.6  | 7.5°  | 4702.9  | 4741.5  | 4825.2  | 4908.8 | 5001.1 | 5089.0 | 5179.2 | 5256.4 | 5318.6 | 5342.2 |
| 4752.2  | 10°   | 4778.0  | 4829.4  | 4947.4  | 5065.4 | 5187.7 | 5322.9 | 5438.8 | 5550.3 | 5638.3 | 5674.8 |
| 4833.7  | 12.5° | 4872.4  | 4936.7  | 5091.2  | 5254.2 | 5423.7 | 5610.4 | 5760.6 | 5897.9 | 6007.3 | 6056.7 |
| 4947.4  | 15°   | 4994.6  | 5078.3  | 5275.7  | 5494.5 | 5743.4 | 6003.0 | 6194.0 | 6346.3 | 6468.6 | 6528.7 |
| 5065.4  | 17.5° | 5127.7  | 5239.2  | 5488.1  | 5818.5 | 6174.7 | 6515.8 | 6738.9 | 6850.5 | 6977.1 | 7035.0 |
| 5174.9  | 20°   | 5256.4  | 5393.7  | 5749.9  | 6230.4 | 6704.6 | 7067.2 | 7247.4 | 7277.4 | 7286.0 | 7292.4 |
| 5277.8  | 22.5° | 5389.4  | 5573.9  | 6078.1  | 6749.6 | 7258.1 | 7509.1 | 7534.9 | 7406.2 | 7225.9 | 7142.3 |
| 5378.7  | 25°   | 5535.3  | 5779.9  | 6507.2  | 7322.5 | 7734.4 | 7764.4 | 7567.1 | 7253.8 | 6912.7 | 6756.1 |
| 5460.2  | 27.5° | 5676.9  | 6018.0  | 7022.1  | 7869.6 | 8077.7 | 7813.8 | 7389.0 | 6944.9 | 6532.9 | 6367.7 |
| 5518.1  | 30°   | 5818.5  | 6290.5  | 7590.7  | 8348.0 | 8234.3 | 7691.5 | 7107.9 | 6612.3 | 6198.3 | 6024.5 |
| 5569.6  | 32.5° | 5962.3  | 6608.0  | 8245.0  | 8693.4 | 8206.4 | 7431.9 | 6758.2 | 6239.0 | 5874.3 | 5691.9 |
| 5614.7  | 35°   | 6125.3  | 6998.5  | 8865.1  | 8882.2 | 8019.8 | 7050.0 | 6296.9 | 5792.8 | 5475.2 | 5329.3 |
| 5668.3  | 37.5° | 6337.7  | 7494.1  | 9412.2  | 8929.4 | 7693.6 | 6490.0 | 5724.1 | 5265.0 | 5003.2 | 4936.7 |
| 5747.7  | 40°   | 6601.6  | 8090.6  | 9830.5  | 8854.3 | 7210.9 | 5809.9 | 5097.6 | 4730.8 | 4582.7 | 4597.7 |
| 5855.0  | 42.5° | 6944.9  | 8757.8  | 10124.5 | 8661.2 | 6539.4 | 5108.4 | 4548.4 | 4385.3 | 4456.1 | 4516.2 |
| 6015.9  | 45°   | 7391.1  | 9450.8  | 10306.8 | 8333.0 | 5779.9 | 4514.1 | 4224.4 | 4263.0 | 4316.7 | 4323.1 |
| 6275.5  | 47.5° | 7961.8  | 10152.3 | 10427.0 | 7837.4 | 5005.4 | 4095.7 | 4018.5 | 4027.0 | 4016.3 | 3971.3 |
| 6663.8  | 50°   | 8674.1  | 10834.6 | 10534.2 | 7180.9 | 4346.7 | 3833.9 | 3731.0 | 3700.9 | 3552.9 | 3407.0 |
| 7180.9  | 52.5° | 9485.1  | 11461.1 | 10579.3 | 6365.6 | 3833.9 | 3615.1 | 3447.8 | 3259.0 | 2982.2 | 2937.1 |
| 7831.0  | 55°   | 10386.2 | 12040.4 | 10463.4 | 5363.7 | 3402.7 | 3334.1 | 3080.9 | 2853.5 | 2823.4 | 2784.8 |
| 8687.0  | 57.5° | 11463.2 | 12664.7 | 10227.4 | 4245.9 | 2960.7 | 3005.8 | 2759.1 | 2784.8 | 2731.2 | 2671.1 |
| 9787.6  | 60°   | 12641.1 | 13310.5 | 9813.4  | 3226.8 | 2503.8 | 2596.0 | 2675.4 | 2673.3 | 2658.2 | 2608.9 |
| 10948.3 | 62.5° | 13700.9 | 13735.3 | 8998.1  | 2471.6 | 2102.6 | 2278.5 | 2495.2 | 2493.0 | 2480.2 | 2452.3 |
| 12160.5 | 65°   | 14331.7 | 13670.9 | 7637.9  | 1945.9 | 1772.2 | 2016.7 | 2250.6 | 2267.8 | 2269.9 | 2267.8 |
| 13072.3 | 67.5° | 14220.2 | 12917.9 | 5771.3  | 1549.0 | 1499.7 | 1750.7 | 2008.2 | 2031.8 | 2048.9 | 2053.2 |
| 13188.2 | 70°   | 12958.6 | 11263.7 | 3763.1  | 1235.8 | 1257.2 | 1516.8 | 1778.6 | 1802.2 | 1817.2 | 1834.4 |
| 11443.9 | 72.5° | 10100.9 | 8281.5  | 2154.0  | 999.8  | 1044.8 | 1315.2 | 1551.2 | 1579.1 | 1587.6 | 1619.8 |
| 7964.0  | 75°   | 6155.3  | 4870.2  | 1162.8  | 787.4  | 858.2  | 1124.2 | 1325.9 | 1358.1 | 1373.1 | 1411.7 |
| 3911.2  | 77.5° | 2926.4  | 2109.0  | 662.9   | 613.6  | 690.8  | 918.3  | 1119.9 | 1156.4 | 1115.6 | 1137.1 |
| 1079.2  | 80°   | 989.1   | 783.1   | 418.4   | 467.7  | 527.8  | 716.6  | 896.8  | 933.3  | 847.5  | 843.2  |
| 358.3   | 82.5° | 345.4   | 317.5   | 266.0   | 311.1  | 341.1  | 512.8  | 678.0  | 725.2  | 630.8  | 628.6  |
| 160.9   | 85°   | 135.2   | 128.7   | 148.0   | 169.5  | 203.8  | 315.4  | 446.3  | 469.9  | 388.3  | 313.2  |
| 47.2    | 87.5° | 27.9    | 30.0    | 36.5    | 38.6   | 62.2   | 109.4  | 160.9  | 197.4  | 156.6  | 133.0  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| <u>180°</u> |
|-------------|
| 4625.6      |
| 4799.4      |
| 5052.6      |
| 5344.4      |
| 5676.9      |
| 6056.7      |
| 6524.4      |
| 7032.8      |
| 7309.6      |
| 7165.9      |
| 6779.7      |
| 6387.1      |
| 6043.8      |
| 5715.5      |
| 5361.5      |
| 4983.9      |
| 4649.2      |
| 4572.0      |
| 4366.0      |
| 4005.6      |
| 3426.3      |
| 2952.2      |
| 2791.3      |
| 2660.4      |
| 2591.7      |
| 2441.5      |
| 2267.8      |
| 2057.5      |
| 1843.0      |
| 1632.7      |
| 1416.0      |
| 1119.9      |
| 834.6       |
| 598.6       |
| 308.9       |
| 122.3       |
| 0.0         |

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