

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: P955833

Luminaire Tested: **GALN-SB8C-930-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-930-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

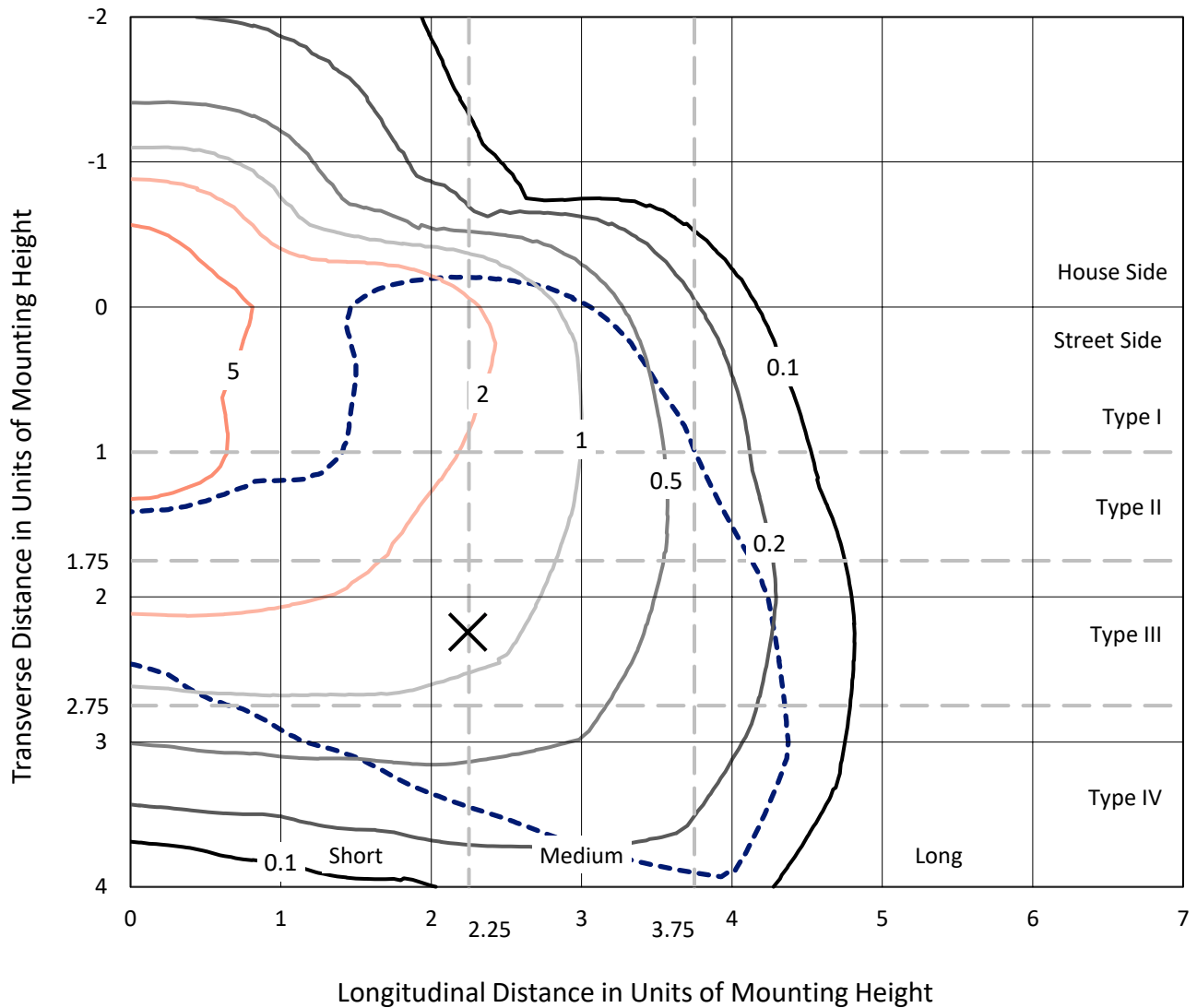
Lumens per Lamp: N/A  
Luminaire Lumens: 42045 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P955833  
 CATALOG NUMBER: GALN-SB8C-930-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

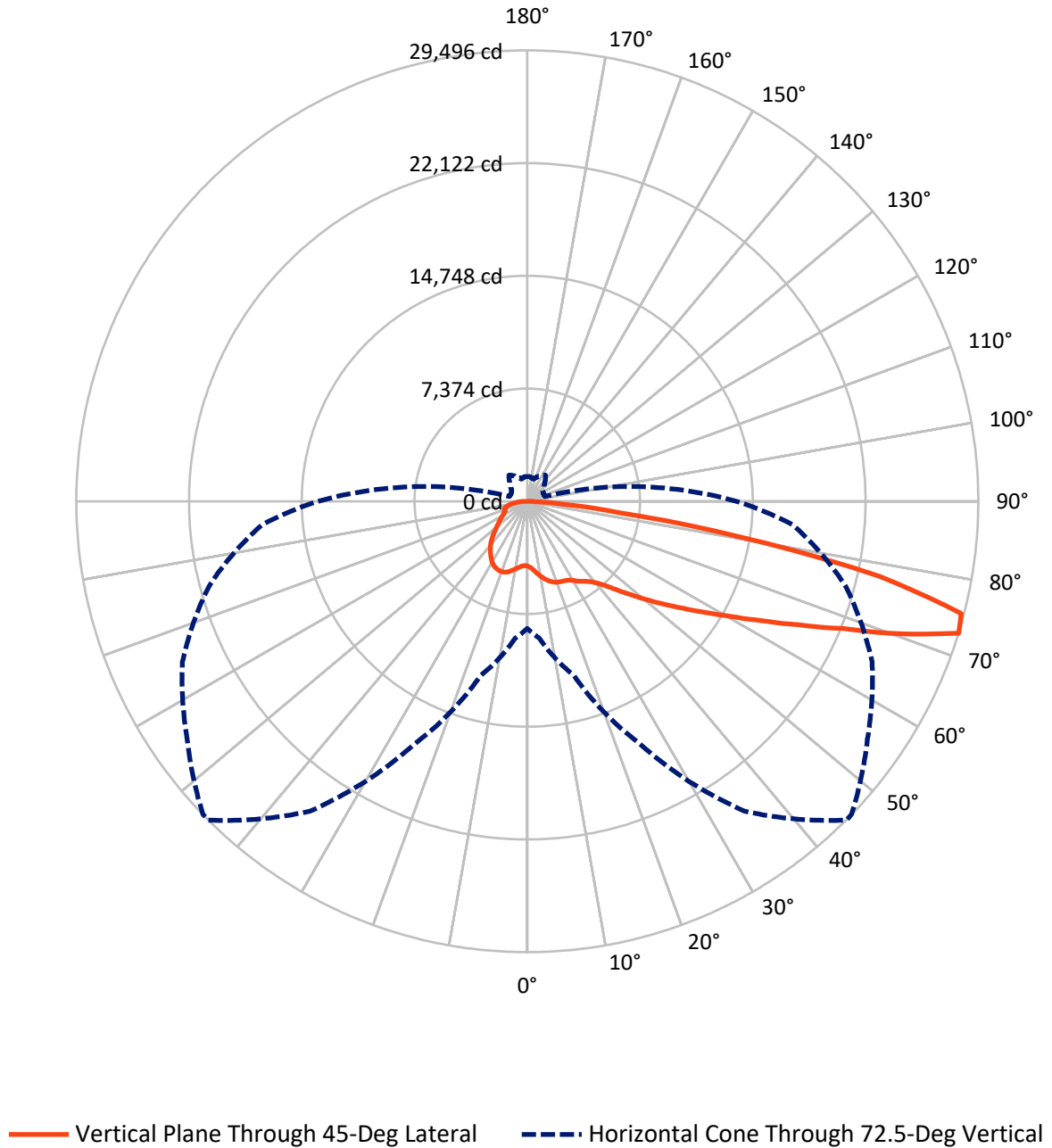
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P955833  
CATALOG NUMBER: GALN-SB8C-930-U-T4W

### Luminous Intensity Polar Plot



REPORT NUMBER: P955833  
 CATALOG NUMBER: GALN-SB8C-930-U-T4W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9504.9   | 0.0    | 9504.9  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 32540.1  | 0.0    | 32540.1 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 42045.0  | 0.0    | 42045.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 431.7   | 1.0       |
| 10°-20°   | 1439.4  | 3.4       |
| 20°-30°   | 2503.8  | 6.0       |
| 30°-40°   | 3589.4  | 8.5       |
| 40°-50°   | 5054.1  | 12.0      |
| 50°-60°   | 7741.3  | 18.4      |
| 60°-70°   | 11214.5 | 26.7      |
| 70°-80°   | 8955.4  | 21.3      |
| 80°-90°   | 1115.4  | 2.7       |
| 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°    | 42045.0 | 100.0     |
| 0°-180°   | 42045.0 | 100.0     |



REPORT NUMBER: P955833

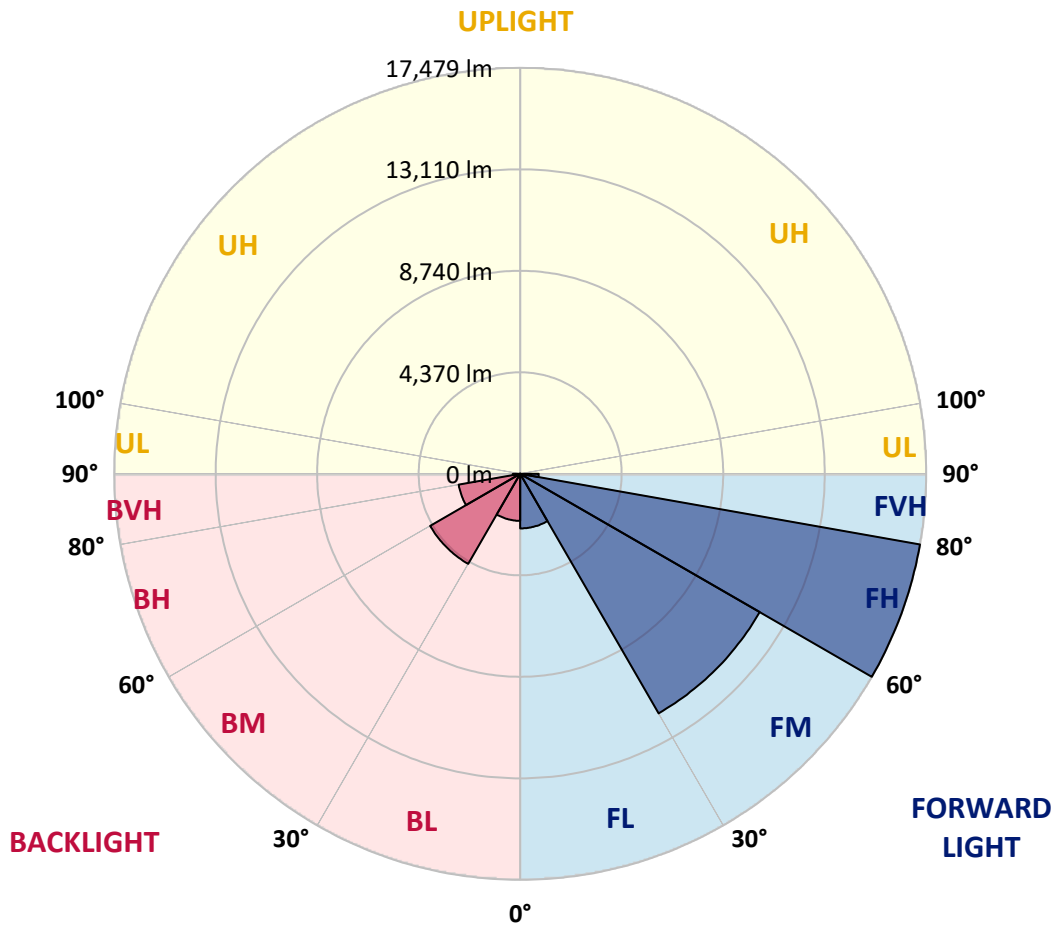
CATALOG NUMBER: GALN-SB8C-930-U-T4W

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2351.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 11909.3 | 28.3      |                         |      |         |
| FH (60°-80°)   | 17479.3 | 41.6      |                         |      | G5      |
| FVH (80°-90°)  | 800.2   | 1.9       |                         |      | G5      |
| BL (0°-30°)    | 2023.7  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4475.5  | 10.6      | B3/5000                 |      |         |
| BH (60°-80°)   | 2690.6  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 315.2   | 0.7       |                         |      | G3/500  |
| 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 Short



REPORT NUMBER: P955833  
 CATALOG NUMBER: GALN-SB8C-930-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4241.5  | 4241.5  | 4241.5  | 4241.5  | 4241.5  | 4241.5  | 4241.5  | 4241.5  | 4241.5  | 4241.5  |
| 2.5°  | 4407.6  | 4436.4  | 4409.9  | 4385.5  | 4374.4  | 4345.6  | 4343.4  | 4325.7  | 4314.6  | 4283.6  |
| 5°    | 4715.5  | 4753.2  | 4708.9  | 4660.1  | 4615.8  | 4545.0  | 4536.1  | 4485.2  | 4427.6  | 4361.1  |
| 7.5°  | 5063.2  | 5096.5  | 5045.5  | 4972.4  | 4894.9  | 4777.5  | 4775.3  | 4682.3  | 4591.5  | 4478.5  |
| 10°   | 5366.7  | 5411.0  | 5342.3  | 5242.7  | 5145.2  | 5012.3  | 4996.8  | 4890.5  | 4775.3  | 4629.1  |
| 12.5° | 5634.7  | 5665.7  | 5599.3  | 5477.4  | 5364.5  | 5231.6  | 5211.6  | 5094.3  | 4965.8  | 4799.7  |
| 15°   | 5847.3  | 5887.2  | 5798.6  | 5667.9  | 5548.3  | 5417.6  | 5399.9  | 5293.6  | 5165.1  | 4990.2  |
| 17.5° | 5986.9  | 6020.1  | 5929.3  | 5783.1  | 5667.9  | 5559.4  | 5546.1  | 5457.5  | 5344.5  | 5167.3  |
| 20°   | 6040.0  | 6075.5  | 5980.2  | 5831.8  | 5725.5  | 5641.3  | 5634.7  | 5570.5  | 5492.9  | 5331.3  |
| 22.5° | 6093.2  | 6126.4  | 6002.4  | 5847.3  | 5754.3  | 5701.1  | 5698.9  | 5656.8  | 5625.8  | 5492.9  |
| 25°   | 6308.0  | 6316.9  | 6150.8  | 5927.1  | 5794.2  | 5747.7  | 5745.4  | 5743.2  | 5756.5  | 5652.4  |
| 27.5° | 6494.1  | 6491.9  | 6350.1  | 6139.7  | 5933.7  | 5836.2  | 5834.0  | 5856.2  | 5898.3  | 5811.9  |
| 30°   | 6766.5  | 6742.1  | 6573.8  | 6354.5  | 6166.3  | 6015.7  | 6002.4  | 5982.4  | 6015.7  | 5947.0  |
| 32.5° | 7344.6  | 7267.1  | 6994.6  | 6604.8  | 6359.0  | 6243.8  | 6226.1  | 6102.0  | 6115.3  | 6073.2  |
| 35°   | 8173.0  | 8071.1  | 7707.8  | 7078.8  | 6598.2  | 6434.3  | 6425.4  | 6268.2  | 6241.6  | 6203.9  |
| 37.5° | 9158.6  | 9032.3  | 8609.3  | 7765.4  | 7010.1  | 6655.8  | 6642.5  | 6500.7  | 6392.2  | 6352.3  |
| 40°   | 10148.6 | 9989.2  | 9639.2  | 8602.6  | 7617.0  | 7025.6  | 6983.6  | 6768.7  | 6644.7  | 6578.2  |
| 42.5° | 11109.9 | 10977.0 | 10678.0 | 9541.8  | 8365.7  | 7566.1  | 7473.1  | 7105.4  | 7012.4  | 6950.3  |
| 45°   | 11960.4 | 11840.8 | 11621.5 | 10545.1 | 9242.8  | 8301.4  | 8210.6  | 7610.4  | 7581.6  | 7581.6  |
| 47.5° | 12651.5 | 12624.9 | 12392.3 | 11568.4 | 10277.1 | 9138.7  | 8981.4  | 8312.5  | 8390.0  | 8509.6  |
| 50°   | 13417.8 | 13344.7 | 13096.7 | 12576.2 | 11493.1 | 10097.7 | 9969.2  | 9174.1  | 9464.2  | 9792.0  |
| 52.5° | 14122.2 | 14162.0 | 13885.2 | 13626.0 | 12866.3 | 11167.5 | 10941.6 | 10190.7 | 10817.5 | 11360.2 |
| 55°   | 14846.4 | 14848.6 | 14771.1 | 14735.7 | 14306.0 | 12350.2 | 12102.2 | 11413.3 | 12410.1 | 13083.4 |
| 57.5° | 15526.4 | 15530.8 | 15646.0 | 15958.3 | 15976.0 | 13714.6 | 13433.3 | 12915.0 | 14179.8 | 14866.4 |
| 60°   | 16133.3 | 16164.3 | 16478.8 | 17209.7 | 17444.5 | 15278.3 | 15012.6 | 14689.2 | 16009.3 | 16700.3 |
| 62.5° | 16337.1 | 16450.0 | 17149.9 | 18188.7 | 18895.3 | 17196.4 | 16935.1 | 16742.4 | 17931.8 | 18574.1 |
| 65°   | 15991.5 | 16250.7 | 17604.0 | 18997.1 | 20388.1 | 19475.6 | 19216.4 | 19006.0 | 19929.6 | 20534.3 |
| 67.5° | 15143.2 | 15477.7 | 17577.4 | 19845.5 | 22199.9 | 22217.6 | 21976.2 | 21482.3 | 22071.4 | 22304.0 |
| 70°   | 12908.4 | 13409.0 | 16029.2 | 20162.2 | 24279.7 | 25967.4 | 25734.9 | 24463.5 | 24208.8 | 23083.6 |
| 72.5° | 8316.9  | 8990.3  | 11803.2 | 17555.3 | 24742.6 | 29495.7 | 29482.5 | 27154.6 | 24884.3 | 21568.6 |
| 75°   | 3034.4  | 3446.4  | 5484.1  | 11019.1 | 20769.1 | 29316.3 | 29402.7 | 26693.9 | 22716.0 | 16660.4 |
| 77.5° | 1105.2  | 1209.3  | 1789.6  | 4234.9  | 12773.3 | 23522.2 | 23701.6 | 21340.5 | 16168.7 | 8361.2  |
| 80°   | 580.3   | 637.9   | 917.0   | 1643.5  | 5473.0  | 13969.3 | 14250.6 | 12682.5 | 7599.3  | 2518.3  |
| 82.5° | 321.2   | 347.7   | 513.9   | 892.6   | 2465.2  | 5973.6  | 6141.9  | 5010.1  | 2673.4  | 1067.6  |
| 85°   | 172.8   | 183.8   | 241.4   | 487.3   | 1204.9  | 2070.9  | 2117.4  | 1497.3  | 1065.4  | 626.8   |
| 87.5° | 50.9    | 62.0    | 79.7    | 155.0   | 471.8   | 465.1   | 476.2   | 296.8   | 420.8   | 316.7   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P955833  
 CATALOG NUMBER: GALN-SB8C-930-U-T4W

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4241.5  | 0°    | 4241.5  | 4241.5  | 4241.5 | 4241.5 | 4241.5 | 4241.5 | 4241.5 | 4241.5 | 4241.5 | 4241.5 |
| 4274.7  | 2.5°  | 4261.5  | 4254.8  | 4230.4 | 4219.4 | 4206.1 | 4203.9 | 4214.9 | 4217.2 | 4219.4 | 4221.6 |
| 4323.5  | 5°    | 4301.3  | 4279.2  | 4257.0 | 4243.7 | 4248.2 | 4250.4 | 4272.5 | 4288.0 | 4299.1 | 4308.0 |
| 4414.3  | 7.5°  | 4378.8  | 4361.1  | 4323.5 | 4321.3 | 4327.9 | 4347.8 | 4376.6 | 4412.1 | 4432.0 | 4447.5 |
| 4531.7  | 10°   | 4494.0  | 4460.8  | 4416.5 | 4423.1 | 4436.4 | 4465.2 | 4525.0 | 4553.8 | 4587.0 | 4615.8 |
| 4675.6  | 12.5° | 4611.4  | 4582.6  | 4531.7 | 4536.1 | 4558.3 | 4609.2 | 4666.8 | 4702.2 | 4724.4 | 4746.5 |
| 4830.7  | 15°   | 4764.2  | 4713.3  | 4657.9 | 4657.9 | 4697.8 | 4753.2 | 4779.7 | 4808.5 | 4821.8 | 4846.2 |
| 4996.8  | 17.5° | 4921.5  | 4855.0  | 4782.0 | 4777.5 | 4826.3 | 4852.8 | 4868.3 | 4872.8 | 4877.2 | 4903.8 |
| 5158.5  | 20°   | 5078.8  | 5005.7  | 4901.6 | 4892.7 | 4903.8 | 4899.3 | 4897.1 | 4892.7 | 4899.3 | 4932.6 |
| 5324.6  | 22.5° | 5233.8  | 5149.6  | 5005.7 | 4965.8 | 4934.8 | 4892.7 | 4890.5 | 4888.3 | 4892.7 | 4925.9 |
| 5504.0  | 25°   | 5415.4  | 5313.5  | 5120.8 | 5001.2 | 4897.1 | 4839.5 | 4846.2 | 4848.4 | 4852.8 | 4879.4 |
| 5690.1  | 27.5° | 5612.5  | 5499.6  | 5227.2 | 4990.2 | 4801.9 | 4762.0 | 4750.9 | 4757.6 | 4773.1 | 4815.2 |
| 5876.1  | 30°   | 5809.7  | 5676.8  | 5324.6 | 4945.9 | 4682.3 | 4626.9 | 4591.5 | 4607.0 | 4655.7 | 4697.8 |
| 6037.8  | 32.5° | 5989.1  | 5856.2  | 5402.1 | 4848.4 | 4529.5 | 4443.1 | 4396.6 | 4416.5 | 4465.2 | 4480.7 |
| 6217.2  | 35°   | 6199.5  | 6048.9  | 5435.4 | 4693.4 | 4363.3 | 4230.4 | 4168.4 | 4139.6 | 4164.0 | 4148.5 |
| 6427.6  | 37.5° | 6434.3  | 6277.0  | 5430.9 | 4489.6 | 4168.4 | 4015.6 | 3929.2 | 3820.7 | 3769.7 | 3716.6 |
| 6737.7  | 40°   | 6782.0  | 6556.1  | 5377.8 | 4243.7 | 3927.0 | 3787.5 | 3632.4 | 3448.6 | 3333.4 | 3229.3 |
| 7238.3  | 42.5° | 7256.0  | 6943.7  | 5280.3 | 3973.5 | 3654.6 | 3523.9 | 3313.5 | 3098.6 | 2917.0 | 2744.3 |
| 7998.0  | 45°   | 7962.5  | 7450.9  | 5158.5 | 3685.6 | 3360.0 | 3231.5 | 3003.4 | 2762.0 | 2556.0 | 2334.5 |
| 9076.6  | 47.5° | 8981.4  | 8133.1  | 5043.3 | 3357.8 | 3049.9 | 2932.5 | 2726.5 | 2502.8 | 2259.2 | 2044.3 |
| 10635.9 | 50°   | 10381.2 | 9112.1  | 4937.0 | 3038.8 | 2744.3 | 2655.7 | 2491.8 | 2263.6 | 2017.8 | 1845.0 |
| 12463.2 | 52.5° | 12162.0 | 10443.2 | 4892.7 | 2731.0 | 2458.5 | 2425.3 | 2294.6 | 2082.0 | 1849.4 | 1703.3 |
| 14593.9 | 55°   | 14206.3 | 12035.7 | 4892.7 | 2436.4 | 2208.2 | 2219.3 | 2128.5 | 1931.4 | 1729.8 | 1599.2 |
| 16791.1 | 57.5° | 16292.8 | 13648.2 | 4804.1 | 2164.0 | 1995.6 | 2042.1 | 1984.5 | 1811.8 | 1630.2 | 1495.1 |
| 19101.2 | 60°   | 18215.3 | 14999.3 | 4445.3 | 1915.9 | 1807.4 | 1880.4 | 1842.8 | 1694.4 | 1472.9 | 1359.9 |
| 21032.6 | 62.5° | 19692.6 | 15761.2 | 3754.2 | 1718.8 | 1652.3 | 1736.5 | 1716.5 | 1539.4 | 1444.1 | 1397.6 |
| 22618.5 | 65°   | 20432.4 | 15637.2 | 2870.5 | 1543.8 | 1521.6 | 1652.3 | 1610.2 | 1603.6 | 1528.3 | 1475.1 |
| 23134.6 | 67.5° | 19978.3 | 14569.6 | 2082.0 | 1415.3 | 1446.3 | 1574.8 | 1736.5 | 1763.1 | 1623.5 | 1519.4 |
| 21681.6 | 70°   | 17987.2 | 12638.2 | 1550.4 | 1293.5 | 1351.1 | 1577.0 | 1980.1 | 1845.0 | 1592.5 | 1470.7 |
| 17389.1 | 72.5° | 13683.6 | 9424.4  | 1202.7 | 1165.0 | 1227.1 | 1588.1 | 2088.6 | 1807.4 | 1503.9 | 1625.7 |
| 10833.0 | 75°   | 7825.2  | 5174.0  | 965.7  | 1007.8 | 1072.0 | 1484.0 | 2033.3 | 1709.9 | 1435.3 | 1492.8 |
| 4292.5  | 77.5° | 2983.5  | 1989.0  | 797.4  | 852.7  | 861.6  | 1295.7 | 1944.7 | 1703.3 | 1366.6 | 1333.4 |
| 1286.9  | 80°   | 1034.4  | 777.4   | 660.0  | 677.8  | 666.7  | 1151.7 | 1864.9 | 1481.8 | 1118.5 | 1001.1 |
| 531.6   | 82.5° | 423.0   | 387.6   | 522.7  | 500.6  | 474.0  | 894.8  | 1506.1 | 1211.5 | 914.8  | 808.4  |
| 256.9   | 85°   | 183.8   | 245.9   | 345.5  | 303.4  | 274.6  | 620.2  | 1207.1 | 1025.5 | 773.0  | 666.7  |
| 84.2    | 87.5° | 37.7    | 93.0    | 146.2  | 137.3  | 141.8  | 414.2  | 857.2  | 728.7  | 547.1  | 409.8  |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END O

| <u>180°</u> |
|-------------|
| 4241.5      |
| 4230.4      |
| 4312.4      |
| 4451.9      |
| 4609.2      |
| 4755.4      |
| 4855.0      |
| 4912.6      |
| 4945.9      |
| 4948.1      |
| 4914.8      |
| 4857.3      |
| 4744.3      |
| 4536.1      |
| 4197.2      |
| 3749.8      |
| 3236.0      |
| 2728.7      |
| 2307.9      |
| 2020.0      |
| 1833.9      |
| 1692.2      |
| 1585.9      |
| 1472.9      |
| 1342.2      |
| 1382.1      |
| 1457.4      |
| 1501.7      |
| 1450.8      |
| 1612.4      |
| 1492.8      |
| 1216.0      |
| 967.9       |
| 799.6       |
| 664.5       |
| 321.2       |
| 0.0         |

F REPORT)