

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: STREETWORKS

Report Number: P944252

Luminaire Tested: **GLAN-SB9A-840-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944252  
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: STREETWORKS  
Catalog Number: GLAN-SB9A-840-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38740 lumens  
Efficiency: N/A  
Efficacy: 151.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 255.5  
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



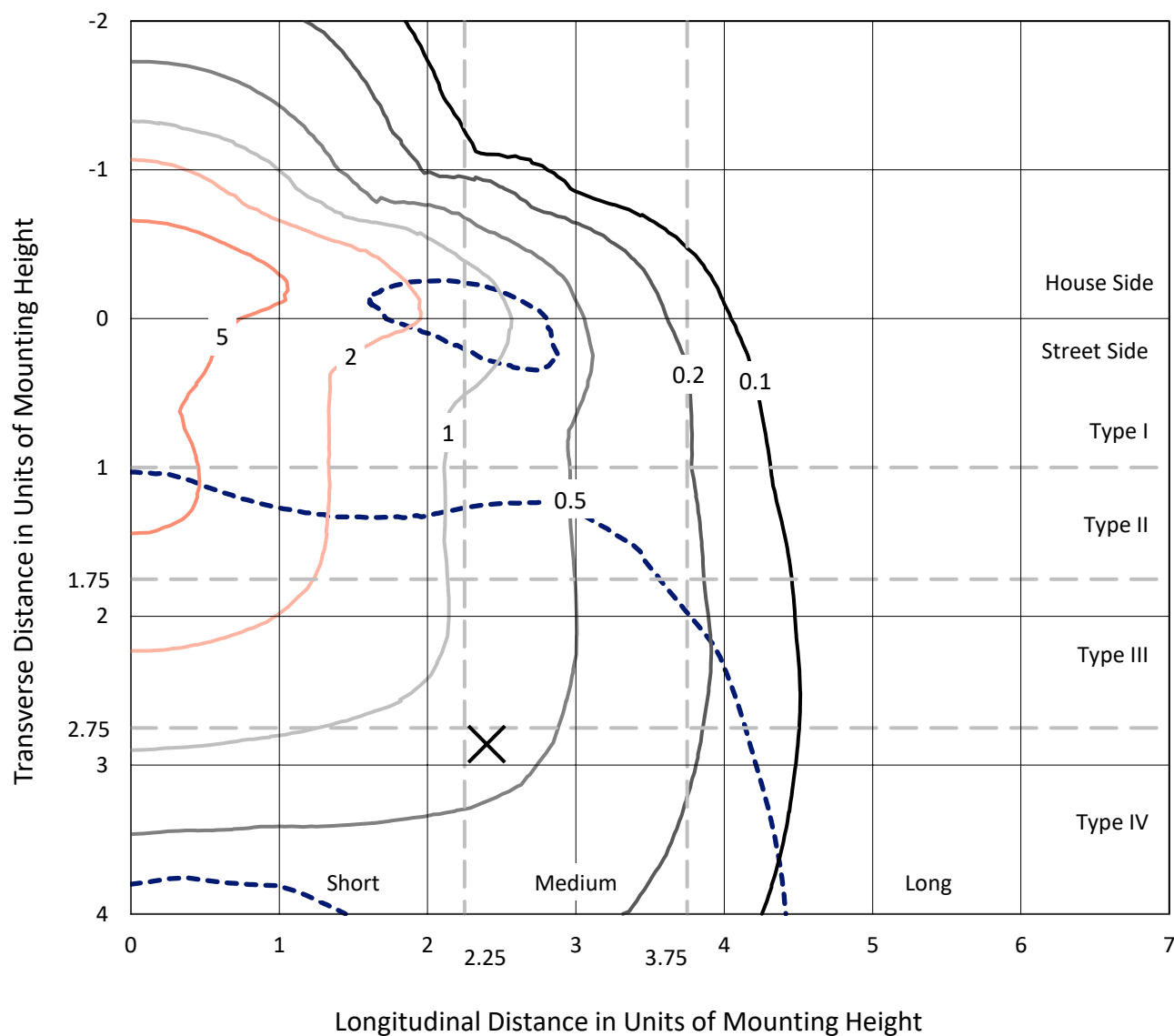
REPORT NUMBER: P944252

CATALOG NUMBER: GLAN-SB9A-840-U-SL4

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

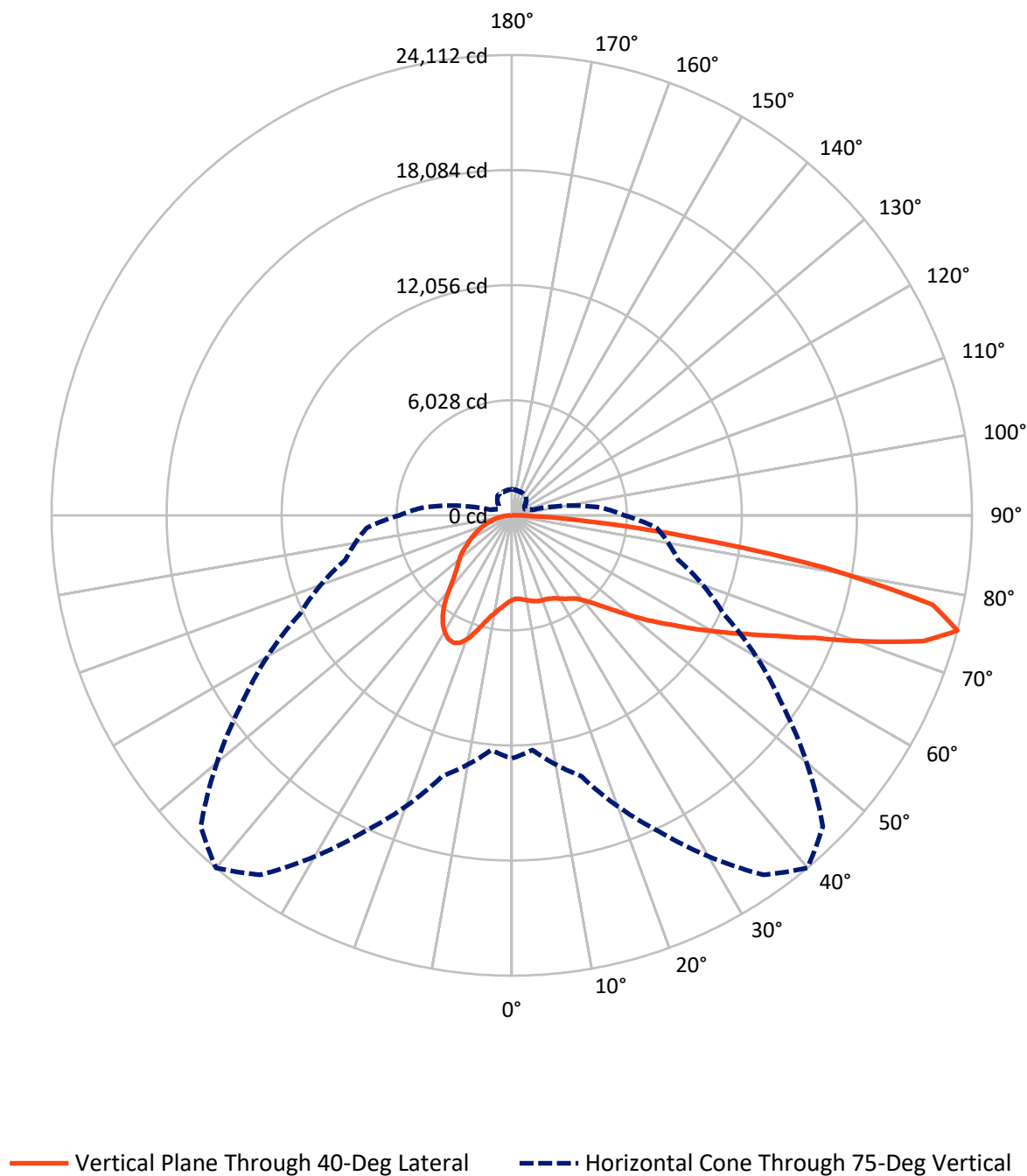
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
Type IV - Medium - N/A

REPORT NUMBER: P944252  
CATALOG NUMBER: GLAN-SB9A-840-U-SL4

## Luminous Intensity Polar Plot



REPORT NUMBER: P944252

CATALOG NUMBER: GLAN-SB9A-840-U-SL4

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12002.9  | 0.0    | 12002.9 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 26737.1  | 0.0    | 26737.1 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 38740.0  | 0.0    | 38740.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 442.2   | 1.1       |
| 10°-20°   | 1484.7  | 3.8       |
| 20°-30°   | 2710.9  | 7.0       |
| 30°-40°   | 3844.7  | 9.9       |
| 40°-50°   | 5191.6  | 13.4      |
| 50°-60°   | 6984.0  | 18.0      |
| 60°-70°   | 8864.3  | 22.9      |
| 70°-80°   | 8044.9  | 20.8      |
| 80°-90°   | 1172.7  | 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°    | 38740.0 | 100.0     |
| 0°-180°   | 38740.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P944252

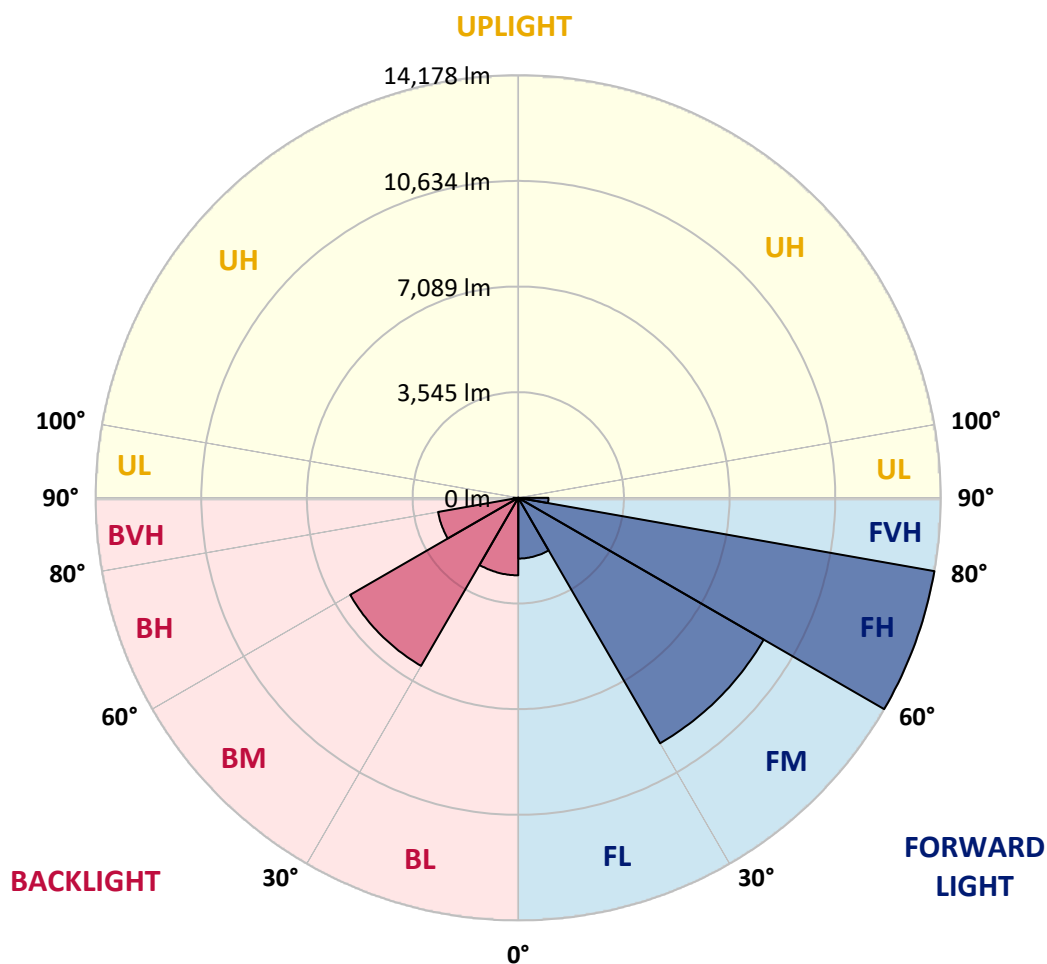
CATALOG NUMBER: GLAN-SB9A-840-U-SL4

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2037.8  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 9509.8  | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 14178.3 | 36.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 1011.2  | 2.6       |                         |      | G5      |
| BL   | (0°-30°)    | 2599.9  | 6.7       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6510.5  | 16.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2731.0  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 161.5   | 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



REPORT NUMBER: P944252

CATALOG NUMBER: GLAN-SB9A-840-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4430.0  | 4430.0  | 4430.0  | 4430.0  | 4430.0  | 4430.0  | 4430.0  | 4430.0  | 4430.0  | 4430.0  |
| 2.5°  | 4362.2  | 4386.8  | 4380.7  | 4372.4  | 4372.4  | 4374.5  | 4372.4  | 4386.8  | 4401.2  | 4415.6  |
| 5°    | 4407.4  | 4432.0  | 4419.7  | 4409.4  | 4401.2  | 4399.1  | 4393.0  | 4390.9  | 4399.1  | 4417.6  |
| 7.5°  | 4495.7  | 4520.4  | 4501.9  | 4483.4  | 4467.0  | 4458.7  | 4450.5  | 4438.2  | 4432.0  | 4442.3  |
| 10°   | 4594.3  | 4619.0  | 4596.4  | 4563.5  | 4536.8  | 4526.5  | 4518.3  | 4506.0  | 4497.8  | 4503.9  |
| 12.5° | 4693.0  | 4717.6  | 4686.8  | 4641.6  | 4606.7  | 4600.5  | 4590.2  | 4586.1  | 4584.1  | 4582.0  |
| 15°   | 4785.4  | 4806.0  | 4766.9  | 4713.5  | 4676.5  | 4666.3  | 4656.0  | 4662.2  | 4672.4  | 4684.8  |
| 17.5° | 4857.4  | 4877.9  | 4820.4  | 4750.5  | 4715.6  | 4711.5  | 4705.3  | 4725.8  | 4754.6  | 4785.4  |
| 20°   | 4923.1  | 4943.6  | 4869.7  | 4775.2  | 4734.1  | 4734.1  | 4736.1  | 4779.3  | 4820.4  | 4865.6  |
| 22.5° | 5015.6  | 5032.0  | 4941.6  | 4812.1  | 4752.6  | 4756.7  | 4773.1  | 4816.3  | 4867.6  | 4929.3  |
| 25°   | 5153.2  | 5165.6  | 5054.6  | 4882.0  | 4814.2  | 4826.5  | 4840.9  | 4861.5  | 4910.8  | 4982.7  |
| 27.5° | 5375.1  | 5385.4  | 5239.5  | 5005.3  | 4902.6  | 4923.1  | 4943.6  | 4929.3  | 4951.9  | 5013.5  |
| 30°   | 5687.5  | 5693.6  | 5508.7  | 5198.4  | 5052.5  | 5062.8  | 5066.9  | 5007.3  | 4964.2  | 5013.5  |
| 32.5° | 6057.3  | 6055.3  | 5835.4  | 5432.7  | 5223.1  | 5212.8  | 5177.9  | 5060.8  | 4960.1  | 5003.2  |
| 35°   | 6630.6  | 6608.0  | 6324.4  | 5761.4  | 5416.2  | 5352.5  | 5270.4  | 5120.4  | 4980.6  | 4993.0  |
| 37.5° | 7579.9  | 7510.0  | 7117.5  | 6299.8  | 5703.9  | 5541.6  | 5420.3  | 5216.9  | 5025.8  | 4988.9  |
| 40°   | 8650.4  | 8562.0  | 8130.5  | 7037.4  | 6135.4  | 5874.4  | 5679.2  | 5354.6  | 5099.8  | 5007.3  |
| 42.5° | 9920.2  | 9794.8  | 9330.5  | 7906.6  | 6681.9  | 6303.9  | 6010.0  | 5529.2  | 5208.7  | 5066.9  |
| 45°   | 11479.7 | 11313.3 | 10655.8 | 8886.7  | 7370.3  | 6866.9  | 6474.4  | 5794.3  | 5375.1  | 5182.0  |
| 47.5° | 13055.7 | 13096.8 | 12161.9 | 10008.5 | 8196.3  | 7561.4  | 7055.9  | 6192.9  | 5617.6  | 5366.9  |
| 50°   | 14730.3 | 14759.0 | 13659.8 | 11251.6 | 9133.2  | 8346.3  | 7709.3  | 6638.8  | 5954.6  | 5629.9  |
| 52.5° | 16037.1 | 16041.2 | 15020.0 | 12552.3 | 10109.2 | 9209.2  | 8414.1  | 7148.4  | 6345.0  | 5979.2  |
| 55°   | 16854.8 | 16844.6 | 15973.4 | 13783.0 | 11231.1 | 10115.4 | 9194.9  | 7727.8  | 6821.7  | 6390.2  |
| 57.5° | 17448.7 | 17417.8 | 16630.9 | 14841.2 | 12426.9 | 11185.9 | 10078.4 | 8385.3  | 7384.7  | 6879.2  |
| 60°   | 17674.7 | 17656.2 | 17076.8 | 15755.6 | 13684.4 | 12369.4 | 11097.5 | 9120.9  | 8023.7  | 7456.6  |
| 62.5° | 17761.0 | 17795.9 | 17514.4 | 16641.2 | 15030.3 | 13680.3 | 12217.3 | 10000.3 | 8742.8  | 8110.0  |
| 65°   | 18065.1 | 18128.8 | 18071.2 | 17800.0 | 16550.7 | 15215.2 | 13702.9 | 11046.2 | 9527.7  | 8810.6  |
| 67.5° | 18667.1 | 18730.8 | 18755.5 | 19187.0 | 18408.2 | 17128.1 | 15556.3 | 12348.9 | 10446.2 | 9538.0  |
| 70°   | 18652.7 | 18634.2 | 19069.8 | 20290.3 | 20734.2 | 19776.7 | 18054.8 | 13951.5 | 11541.3 | 10142.1 |
| 72.5° | 16978.1 | 16830.2 | 17859.6 | 20278.0 | 22669.7 | 22542.3 | 21106.1 | 16018.6 | 12486.5 | 10216.1 |
| 75°   | 12737.2 | 12342.7 | 14161.1 | 18274.7 | 22992.3 | 24112.1 | 23045.7 | 17300.7 | 12262.6 | 9026.4  |
| 77.5° | 5447.1  | 5050.5  | 7193.6  | 13528.3 | 20578.0 | 22540.2 | 21266.3 | 15094.0 | 9788.7  | 5969.0  |
| 80°   | 1426.0  | 1423.9  | 2173.9  | 6133.3  | 13994.7 | 16645.3 | 14602.9 | 9747.6  | 5592.9  | 2132.8  |
| 82.5° | 589.7   | 575.3   | 799.3   | 2385.5  | 6838.1  | 9340.7  | 7623.0  | 4347.8  | 2019.8  | 577.4   |
| 85°   | 219.9   | 217.8   | 388.3   | 823.9   | 2412.2  | 3852.6  | 2788.3  | 1111.6  | 503.4   | 281.5   |
| 87.5° | 61.6    | 59.6    | 84.2    | 285.6   | 587.6   | 891.7   | 476.7   | 182.9   | 141.8   | 111.0   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P944252

CATALOG NUMBER: GLAN-SB9A-840-U-SL4

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4430.0  | 0°    | 4430.0  | 4430.0  | 4430.0  | 4430.0 | 4430.0 | 4430.0 | 4430.0 | 4430.0 | 4430.0 | 4430.0 |
| 4438.2  | 2.5°  | 4444.4  | 4454.6  | 4473.1  | 4487.5 | 4506.0 | 4526.5 | 4555.3 | 4573.8 | 4592.3 | 4604.6 |
| 4448.5  | 5°    | 4462.8  | 4485.4  | 4532.7  | 4580.0 | 4635.4 | 4686.8 | 4746.4 | 4789.5 | 4824.5 | 4834.7 |
| 4485.4  | 7.5°  | 4503.9  | 4540.9  | 4621.1  | 4701.2 | 4789.5 | 4873.8 | 4960.1 | 5034.1 | 5093.6 | 5116.2 |
| 4551.2  | 10°   | 4575.9  | 4625.2  | 4738.2  | 4851.2 | 4968.3 | 5097.8 | 5208.7 | 5315.6 | 5399.8 | 5434.7 |
| 4629.3  | 12.5° | 4666.3  | 4727.9  | 4875.8  | 5032.0 | 5194.3 | 5373.1 | 5516.9 | 5648.4 | 5753.2 | 5800.5 |
| 4738.2  | 15°   | 4783.4  | 4863.5  | 5052.5  | 5262.1 | 5500.5 | 5749.1 | 5932.0 | 6077.9 | 6195.0 | 6252.5 |
| 4851.2  | 17.5° | 4910.8  | 5017.6  | 5256.0  | 5572.4 | 5913.5 | 6240.2 | 6453.9 | 6560.7 | 6681.9 | 6737.4 |
| 4956.0  | 20°   | 5034.1  | 5165.6  | 5506.6  | 5966.9 | 6421.0 | 6768.2 | 6940.8 | 6969.6 | 6977.8 | 6984.0 |
| 5054.6  | 22.5° | 5161.5  | 5338.2  | 5821.0  | 6464.1 | 6951.1 | 7191.5 | 7216.2 | 7092.9 | 6920.3 | 6840.2 |
| 5151.2  | 25°   | 5301.2  | 5535.4  | 6232.0  | 7012.8 | 7407.3 | 7436.0 | 7247.0 | 6947.0 | 6620.3 | 6470.3 |
| 5229.3  | 27.5° | 5436.8  | 5763.5  | 6725.1  | 7536.7 | 7736.0 | 7483.3 | 7076.4 | 6651.1 | 6256.6 | 6098.4 |
| 5284.7  | 30°   | 5572.4  | 6024.4  | 7269.6  | 7994.9 | 7886.0 | 7366.2 | 6807.3 | 6332.6 | 5936.1 | 5769.6 |
| 5334.0  | 32.5° | 5710.1  | 6328.5  | 7896.3  | 8325.7 | 7859.3 | 7117.5 | 6472.4 | 5975.1 | 5625.8 | 5451.2 |
| 5377.2  | 35°   | 5866.2  | 6702.5  | 8490.1  | 8506.5 | 7680.5 | 6751.8 | 6030.6 | 5547.7 | 5243.6 | 5103.9 |
| 5428.6  | 37.5° | 6069.6  | 7177.1  | 9014.0  | 8551.7 | 7368.2 | 6215.5 | 5482.0 | 5042.3 | 4791.6 | 4727.9 |
| 5504.6  | 40°   | 6322.4  | 7748.3  | 9414.7  | 8479.8 | 6905.9 | 5564.2 | 4882.0 | 4530.7 | 4388.9 | 4403.3 |
| 5607.3  | 42.5° | 6651.1  | 8387.4  | 9696.2  | 8294.9 | 6262.8 | 4892.3 | 4356.0 | 4199.8 | 4267.6 | 4325.2 |
| 5761.4  | 45°   | 7078.5  | 9051.0  | 9870.9  | 7980.5 | 5535.4 | 4323.1 | 4045.7 | 4082.7 | 4134.1 | 4140.3 |
| 6010.0  | 47.5° | 7625.1  | 9722.9  | 9985.9  | 7505.9 | 4793.7 | 3922.5 | 3848.5 | 3856.7 | 3846.4 | 3803.3 |
| 6382.0  | 50°   | 8307.2  | 10376.3 | 10088.7 | 6877.1 | 4162.9 | 3671.8 | 3573.2 | 3544.4 | 3402.6 | 3262.9 |
| 6877.1  | 52.5° | 9083.9  | 10976.3 | 10131.8 | 6096.3 | 3671.8 | 3462.2 | 3301.9 | 3121.1 | 2856.1 | 2812.9 |
| 7499.7  | 55°   | 9946.9  | 11531.1 | 10020.9 | 5136.8 | 3258.8 | 3193.0 | 2950.6 | 2732.8 | 2704.0 | 2667.0 |
| 8319.6  | 57.5° | 10978.4 | 12129.0 | 9794.8  | 4066.3 | 2835.5 | 2878.7 | 2642.4 | 2667.0 | 2615.7 | 2558.1 |
| 9373.6  | 60°   | 12106.4 | 12747.5 | 9398.3  | 3090.3 | 2397.9 | 2486.2 | 2562.2 | 2560.2 | 2545.8 | 2498.5 |
| 10485.2 | 62.5° | 13121.4 | 13154.3 | 8617.5  | 2367.0 | 2013.6 | 2182.1 | 2389.6 | 2387.6 | 2375.3 | 2348.5 |
| 11646.1 | 65°   | 13725.5 | 13092.7 | 7314.8  | 1863.6 | 1697.2 | 1931.4 | 2155.4 | 2171.8 | 2173.9 | 2171.8 |
| 12519.4 | 67.5° | 13618.7 | 12371.5 | 5527.2  | 1483.5 | 1436.2 | 1676.6 | 1923.2 | 1945.8 | 1962.3 | 1966.4 |
| 12630.3 | 70°   | 12410.5 | 10787.3 | 3604.0  | 1183.5 | 1204.1 | 1452.7 | 1703.4 | 1726.0 | 1740.3 | 1756.8 |
| 10959.9 | 72.5° | 9673.6  | 7931.2  | 2062.9  | 957.5  | 1000.6 | 1259.5 | 1485.6 | 1512.3 | 1520.5 | 1551.3 |
| 7627.1  | 75°   | 5895.0  | 4664.2  | 1113.7  | 754.1  | 821.9  | 1076.7 | 1269.8 | 1300.6 | 1315.0 | 1352.0 |
| 3745.7  | 77.5° | 2802.6  | 2019.8  | 634.9   | 587.6  | 661.6  | 879.4  | 1072.6 | 1107.5 | 1068.5 | 1089.0 |
| 1033.5  | 80°   | 947.2   | 750.0   | 400.7   | 447.9  | 505.5  | 686.3  | 858.9  | 893.8  | 811.6  | 807.5  |
| 343.1   | 82.5° | 330.8   | 304.1   | 254.8   | 297.9  | 326.7  | 491.1  | 649.3  | 694.5  | 604.1  | 602.0  |
| 154.1   | 85°   | 129.4   | 123.3   | 141.8   | 162.3  | 195.2  | 302.0  | 427.4  | 450.0  | 371.9  | 300.0  |
| 45.2    | 87.5° | 26.7    | 28.8    | 34.9    | 37.0   | 59.6   | 104.8  | 154.1  | 189.0  | 150.0  | 127.4  |
| 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

| 180°   |
|--------|
| 4430.0 |
| 4596.4 |
| 4838.9 |
| 5118.3 |
| 5436.8 |
| 5800.5 |
| 6248.4 |
| 6735.4 |
| 7000.4 |
| 6862.8 |
| 6492.9 |
| 6116.9 |
| 5788.1 |
| 5473.8 |
| 5134.7 |
| 4773.1 |
| 4452.6 |
| 4378.6 |
| 4181.3 |
| 3836.2 |
| 3281.4 |
| 2827.3 |
| 2673.2 |
| 2547.8 |
| 2482.1 |
| 2338.3 |
| 2171.8 |
| 1970.5 |
| 1765.0 |
| 1563.6 |
| 1356.1 |
| 1072.6 |
| 799.3  |
| 573.3  |
| 295.9  |
| 117.1  |
| 0.0    |