

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: P944399

Luminaire Tested: **GLAN-SB9B-827-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB9B-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44081 lumens  
Efficiency: N/A  
Efficacy: 133.8 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): 329.5  
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

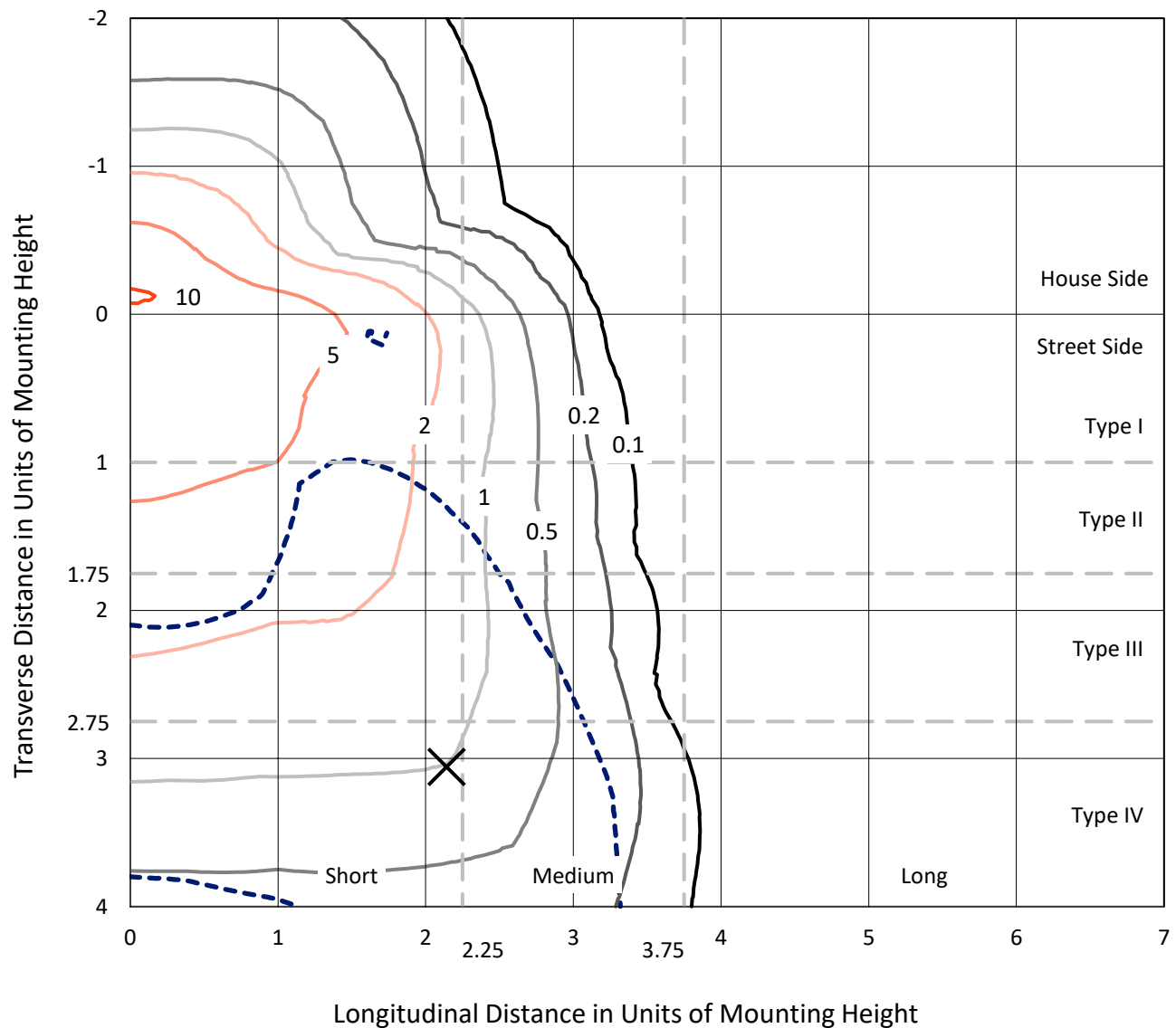


REPORT NUMBER: P944399

CATALOG NUMBER: GLAN-SB9B-827-U-T4FT

## Iso-Footcandle Lines of Horizontal Illumination

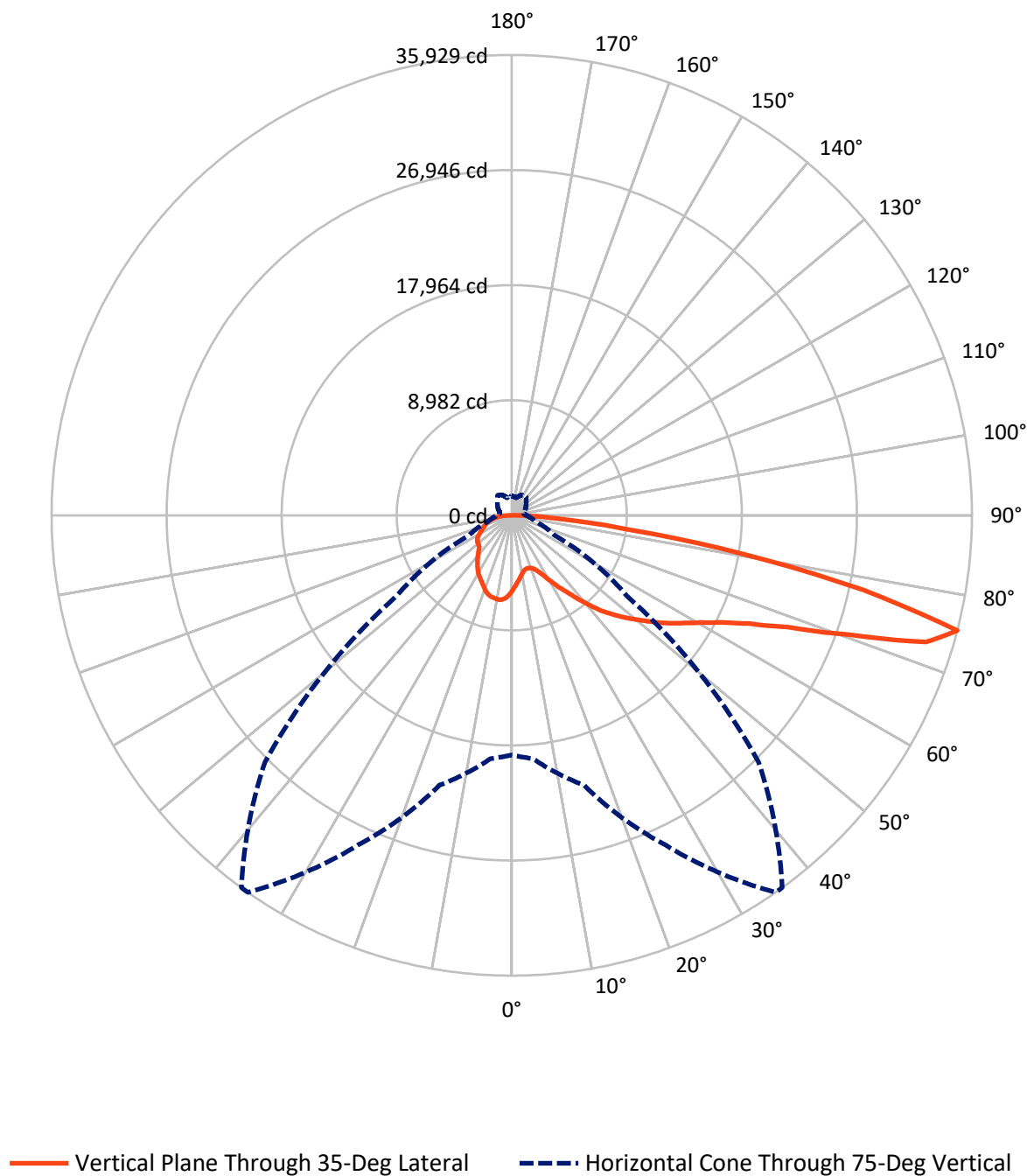
× Max cd  
- - - 1/2 Max cd



REPORT NUMBER: P944399

CATALOG NUMBER: GLAN-SB9B-827-U-T4FT

## Luminous Intensity Polar Plot



REPORT NUMBER: P944399

CATALOG NUMBER: GLAN-SB9B-827-U-T4FT

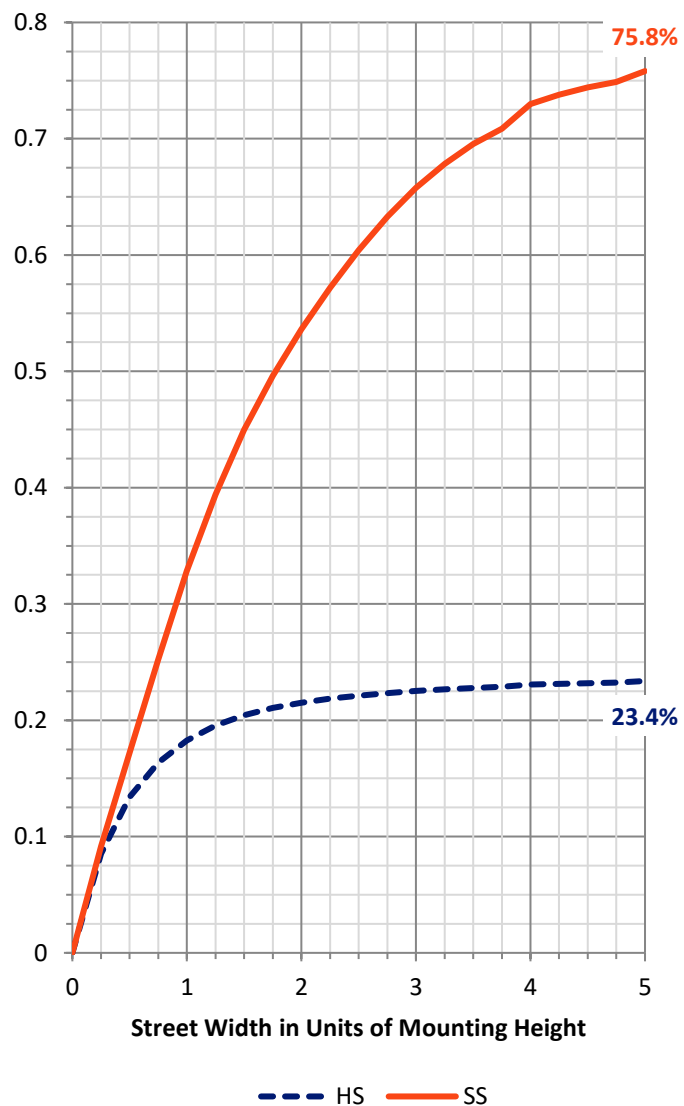
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10490.2  | 0.0    | 10490.2 |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 33590.8  | 0.0    | 33590.8 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 44081.0  | 0.0    | 44081.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 556.2   | 1.3       |
| 10°-20°   | 1604.2  | 3.6       |
| 20°-30°   | 2693.9  | 6.1       |
| 30°-40°   | 4186.7  | 9.5       |
| 40°-50°   | 6214.1  | 14.1      |
| 50°-60°   | 8579.0  | 19.5      |
| 60°-70°   | 10408.2 | 23.6      |
| 70°-80°   | 8601.6  | 19.5      |
| 80°-90°   | 1237.2  | 2.8       |
| 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°    | 44081.0 | 100.0     |
| 0°-180°   | 44081.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P944399

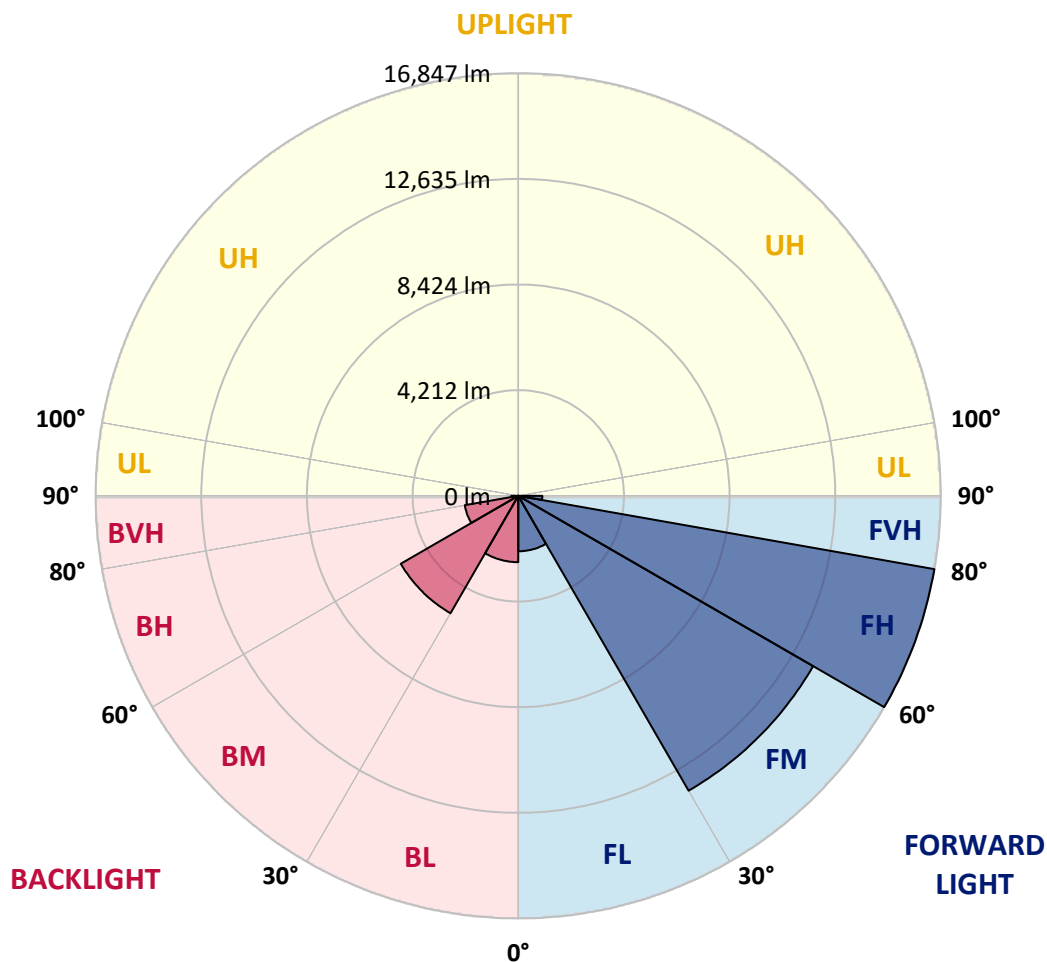
CATALOG NUMBER: GLAN-SB9B-827-U-T4FT

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2210.6  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 13574.6 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 16847.1 | 38.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 958.6   | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2643.7  | 6.0       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5405.2  | 12.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2162.7  | 4.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 278.6   | 0.6       |                         |      | 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: P944399

CATALOG NUMBER: GLAN-SB9B-827-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5874.1  | 5874.1  | 5874.1  | 5874.1  | 5874.1  | 5874.1  | 5874.1  | 5874.1  | 5874.1  | 5874.1  |
| 2.5°  | 5416.6  | 5449.9  | 5464.2  | 5457.1  | 5492.8  | 5488.0  | 5538.1  | 5600.0  | 5685.8  | 5769.2  |
| 5°    | 4999.5  | 5035.3  | 5066.3  | 5094.9  | 5164.0  | 5185.4  | 5264.0  | 5383.2  | 5540.5  | 5700.1  |
| 7.5°  | 4611.1  | 4642.1  | 4689.7  | 4742.2  | 4858.9  | 4880.4  | 5011.4  | 5197.3  | 5416.6  | 5650.1  |
| 10°   | 4294.2  | 4325.1  | 4375.2  | 4434.8  | 4580.1  | 4606.3  | 4773.1  | 5021.0  | 5306.9  | 5602.4  |
| 12.5° | 4158.3  | 4167.9  | 4196.5  | 4256.0  | 4382.3  | 4399.0  | 4582.5  | 4866.1  | 5199.7  | 5566.7  |
| 15°   | 4151.2  | 4170.2  | 4172.6  | 4203.6  | 4308.5  | 4315.6  | 4484.8  | 4766.0  | 5133.0  | 5559.5  |
| 17.5° | 4222.7  | 4237.0  | 4215.5  | 4234.6  | 4322.8  | 4334.7  | 4468.1  | 4718.3  | 5111.5  | 5590.5  |
| 20°   | 4413.3  | 4425.2  | 4360.9  | 4334.7  | 4399.0  | 4408.5  | 4539.6  | 4749.3  | 5133.0  | 5654.9  |
| 22.5° | 4818.4  | 4825.6  | 4668.3  | 4561.1  | 4565.8  | 4570.6  | 4685.0  | 4875.6  | 5216.4  | 5771.6  |
| 25°   | 5449.9  | 5445.2  | 5194.9  | 4987.6  | 4868.5  | 4842.3  | 4918.5  | 5080.6  | 5357.0  | 5926.5  |
| 27.5° | 6188.6  | 6152.9  | 5902.7  | 5592.9  | 5333.2  | 5295.0  | 5278.3  | 5347.4  | 5557.2  | 6131.5  |
| 30°   | 7022.7  | 6989.3  | 6720.1  | 6314.9  | 5955.1  | 5893.2  | 5735.9  | 5700.1  | 5855.0  | 6410.3  |
| 32.5° | 7937.8  | 7916.3  | 7594.6  | 7103.7  | 6622.4  | 6550.9  | 6286.4  | 6191.0  | 6312.6  | 6832.1  |
| 35°   | 8705.1  | 8686.0  | 8419.1  | 7913.9  | 7325.3  | 7237.2  | 6967.9  | 6860.7  | 6922.6  | 7373.0  |
| 37.5° | 9398.5  | 9389.0  | 9160.2  | 8762.3  | 8154.6  | 8047.4  | 7744.7  | 7709.0  | 7697.1  | 8085.5  |
| 40°   | 10042.0 | 10018.1 | 9779.8  | 9570.1  | 9119.7  | 9022.0  | 8755.1  | 8724.2  | 8633.6  | 8962.5  |
| 42.5° | 10754.5 | 10692.5 | 10347.0 | 10249.3 | 10127.7 | 10046.7 | 9887.1  | 9891.8  | 9691.7  | 9951.4  |
| 45°   | 11335.9 | 11300.2 | 10945.1 | 10887.9 | 11019.0 | 10985.6 | 11123.8 | 11159.6 | 10771.2 | 10988.0 |
| 47.5° | 11960.3 | 11926.9 | 11626.6 | 11586.1 | 11941.2 | 11950.7 | 12439.3 | 12451.2 | 11824.4 | 12065.1 |
| 50°   | 12730.0 | 12682.3 | 12384.4 | 12434.5 | 12832.4 | 12868.2 | 13761.8 | 13680.8 | 12794.3 | 13158.9 |
| 52.5° | 13237.6 | 13266.2 | 13201.8 | 13282.8 | 13826.2 | 13859.5 | 15062.9 | 14855.6 | 13754.7 | 14238.4 |
| 55°   | 13611.7 | 13668.9 | 13869.1 | 14054.9 | 14874.7 | 14908.0 | 16290.2 | 15973.2 | 14550.6 | 15239.3 |
| 57.5° | 14093.1 | 14012.0 | 14386.2 | 14748.4 | 15870.8 | 15958.9 | 17484.1 | 17050.4 | 15256.0 | 16101.9 |
| 60°   | 14784.1 | 14726.9 | 15017.7 | 15553.8 | 16986.0 | 17126.6 | 18747.0 | 18020.2 | 15773.1 | 16785.8 |
| 62.5° | 16185.3 | 16042.3 | 16087.6 | 16561.8 | 18392.0 | 18577.9 | 20172.1 | 18866.2 | 16030.4 | 17052.7 |
| 65°   | 18280.0 | 18034.5 | 17805.8 | 18134.6 | 20372.3 | 20555.7 | 21780.6 | 19531.1 | 15935.1 | 16535.6 |
| 67.5° | 20918.0 | 20674.9 | 20393.7 | 20703.5 | 23289.0 | 23434.4 | 23765.6 | 19905.2 | 15184.5 | 14543.4 |
| 70°   | 23093.6 | 23003.1 | 23339.1 | 24614.0 | 27947.8 | 27952.6 | 26310.7 | 19595.4 | 13127.9 | 10311.2 |
| 72.5° | 22805.3 | 22750.5 | 24521.1 | 28462.5 | 33819.5 | 33693.2 | 28719.9 | 17250.5 | 8843.3  | 4651.6  |
| 75°   | 18708.9 | 19064.0 | 21806.8 | 28393.4 | 35928.5 | 35911.8 | 27244.8 | 10966.6 | 3657.9  | 1927.8  |
| 77.5° | 10032.4 | 10594.8 | 14157.4 | 20963.2 | 28047.9 | 28469.7 | 19154.5 | 3836.6  | 1570.4  | 1234.4  |
| 80°   | 3271.9  | 3762.8  | 5642.9  | 10673.5 | 18225.2 | 18146.5 | 8209.4  | 1506.1  | 1074.7  | 874.6   |
| 82.5° | 1389.3  | 1446.5  | 2521.2  | 5040.0  | 9353.3  | 9207.9  | 2614.1  | 865.0   | 755.4   | 598.1   |
| 85°   | 543.3   | 607.7   | 1112.9  | 2330.6  | 4051.1  | 3962.9  | 943.7   | 428.9   | 483.7   | 390.8   |
| 87.5° | 178.7   | 216.9   | 398.0   | 798.3   | 1260.6  | 1215.3  | 231.2   | 147.7   | 209.7   | 178.7   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P944399

CATALOG NUMBER: GLAN-SB9B-827-U-T4FT

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5874.1  | 0°    | 5874.1  | 5874.1  | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 | 5874.1 |
| 5890.8  | 2.5°  | 5924.1  | 5962.3  | 6007.5 | 6074.3 | 6131.5 | 6179.1 | 6229.2 | 6260.1 | 6272.1 | 6307.8 |
| 5900.3  | 5°    | 5967.0  | 6050.4  | 6162.4 | 6272.1 | 6379.3 | 6443.6 | 6500.8 | 6529.4 | 6555.6 | 6574.7 |
| 5926.5  | 7.5°  | 6038.5  | 6145.8  | 6322.1 | 6465.1 | 6555.6 | 6608.1 | 6646.2 | 6636.7 | 6646.2 | 6650.9 |
| 5955.1  | 10°   | 6100.5  | 6250.6  | 6460.3 | 6596.1 | 6665.2 | 6667.6 | 6658.1 | 6624.7 | 6608.1 | 6610.4 |
| 5998.0  | 12.5° | 6174.3  | 6341.2  | 6567.5 | 6681.9 | 6701.0 | 6648.6 | 6608.1 | 6550.9 | 6529.4 | 6519.9 |
| 6062.3  | 15°   | 6274.4  | 6465.1  | 6684.3 | 6727.2 | 6679.5 | 6612.8 | 6543.7 | 6450.8 | 6403.1 | 6365.0 |
| 6172.0  | 17.5° | 6396.0  | 6605.7  | 6774.9 | 6743.9 | 6641.4 | 6531.8 | 6419.8 | 6279.2 | 6181.5 | 6141.0 |
| 6322.1  | 20°   | 6565.2  | 6753.4  | 6844.0 | 6708.1 | 6553.2 | 6386.4 | 6195.8 | 6024.2 | 5933.7 | 5893.2 |
| 6512.7  | 22.5° | 6770.1  | 6951.2  | 6910.7 | 6646.2 | 6426.9 | 6160.1 | 5921.8 | 5795.5 | 5750.2 | 5721.6 |
| 6758.2  | 25°   | 7015.5  | 7170.4  | 6958.4 | 6555.6 | 6219.6 | 5859.8 | 5676.3 | 5635.8 | 5614.3 | 5592.9 |
| 7058.4  | 27.5° | 7334.9  | 7418.3  | 6994.1 | 6422.2 | 5895.5 | 5540.5 | 5473.7 | 5480.9 | 5473.7 | 5438.0 |
| 7475.5  | 30°   | 7756.7  | 7740.0  | 7027.5 | 6205.3 | 5523.8 | 5252.1 | 5256.9 | 5287.9 | 5292.6 | 5268.8 |
| 8056.9  | 32.5° | 8311.9  | 8142.7  | 7044.1 | 5924.1 | 5168.7 | 4999.5 | 5004.3 | 5037.7 | 5061.5 | 5021.0 |
| 8817.1  | 35°   | 8983.9  | 8612.2  | 7017.9 | 5571.5 | 4894.7 | 4758.8 | 4723.1 | 4732.6 | 4739.8 | 4701.7 |
| 9739.3  | 37.5° | 9767.9  | 9138.8  | 6901.2 | 5180.6 | 4668.3 | 4522.9 | 4446.7 | 4382.3 | 4344.2 | 4308.5 |
| 10783.1 | 40°   | 10628.2 | 9713.1  | 6686.7 | 4799.4 | 4415.7 | 4272.7 | 4158.3 | 4036.8 | 3908.1 | 3860.5 |
| 11888.8 | 42.5° | 11528.9 | 10304.1 | 6426.9 | 4434.8 | 4125.0 | 4008.2 | 3886.7 | 3710.3 | 3517.3 | 3419.6 |
| 13037.4 | 45°   | 12463.1 | 10909.4 | 6172.0 | 4074.9 | 3827.1 | 3777.1 | 3636.5 | 3424.4 | 3214.7 | 3090.7 |
| 14188.4 | 47.5° | 13378.2 | 11481.3 | 5797.8 | 3712.7 | 3548.3 | 3603.1 | 3493.5 | 3298.1 | 3064.5 | 2869.1 |
| 15329.8 | 50°   | 14252.7 | 12017.5 | 5185.4 | 3345.7 | 3321.9 | 3550.7 | 3445.8 | 3164.6 | 2897.7 | 2647.5 |
| 16449.8 | 52.5° | 15120.1 | 12451.2 | 4401.4 | 3012.1 | 3200.4 | 3536.4 | 3383.9 | 3074.1 | 2747.6 | 2485.5 |
| 17503.1 | 55°   | 15856.5 | 12675.2 | 3646.0 | 2726.2 | 3024.0 | 3414.8 | 3310.0 | 2966.8 | 2535.5 | 2256.7 |
| 18225.2 | 57.5° | 16275.9 | 12494.1 | 3016.9 | 2445.0 | 2781.0 | 3214.7 | 3183.7 | 2738.1 | 2282.9 | 2068.4 |
| 18365.8 | 60°   | 16094.8 | 11760.1 | 2502.1 | 2199.5 | 2549.8 | 2997.8 | 2964.5 | 2511.7 | 2089.9 | 1887.3 |
| 17612.7 | 62.5° | 15096.3 | 10361.3 | 2094.7 | 1985.0 | 2340.1 | 2776.2 | 2745.2 | 2337.7 | 1942.1 | 1746.7 |
| 15613.4 | 65°   | 13085.0 | 8428.7  | 1777.7 | 1806.3 | 2128.0 | 2509.3 | 2554.6 | 2192.4 | 1825.4 | 1634.7 |
| 12079.4 | 67.5° | 9980.0  | 6105.2  | 1529.9 | 1651.4 | 1920.7 | 2247.2 | 2378.2 | 2087.5 | 1727.7 | 1546.6 |
| 6989.3  | 70°   | 5688.2  | 3467.3  | 1320.2 | 1501.3 | 1737.2 | 2004.1 | 2242.4 | 2004.1 | 1622.8 | 1472.7 |
| 2618.9  | 72.5° | 2156.6  | 1591.8  | 1141.5 | 1351.2 | 1560.9 | 1799.2 | 2092.3 | 1873.0 | 1501.3 | 1389.3 |
| 1353.5  | 75°   | 1151.0  | 969.9   | 960.3  | 1174.8 | 1358.3 | 1599.0 | 1904.0 | 1744.4 | 1410.7 | 1467.9 |
| 936.5   | 77.5° | 784.0   | 686.3   | 803.1  | 1005.6 | 1136.7 | 1377.4 | 1703.8 | 1548.9 | 1222.5 | 1217.7 |
| 648.2   | 80°   | 543.3   | 486.1   | 652.9  | 810.2  | 879.3  | 1158.1 | 1487.0 | 1329.7 | 996.1  | 929.4  |
| 400.3   | 82.5° | 326.5   | 316.9   | 488.5  | 605.3  | 622.0  | 893.6  | 1232.0 | 1115.2 | 815.0  | 710.1  |
| 238.3   | 85°   | 178.7   | 188.3   | 312.2  | 355.1  | 362.2  | 624.3  | 965.1  | 862.6  | 626.7  | 526.6  |
| 85.8    | 87.5° | 50.0    | 64.3    | 114.4  | 140.6  | 174.0  | 324.1  | 574.3  | 512.3  | 314.6  | 219.2  |
| 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°   |
|--------|
| 5874.1 |
| 6305.4 |
| 6579.5 |
| 6658.1 |
| 6615.2 |
| 6515.1 |
| 6376.9 |
| 6143.4 |
| 5888.4 |
| 5726.3 |
| 5592.9 |
| 5445.2 |
| 5280.7 |
| 5040.0 |
| 4727.9 |
| 4332.3 |
| 3881.9 |
| 3431.5 |
| 3081.2 |
| 2847.7 |
| 2626.1 |
| 2456.9 |
| 2232.9 |
| 2039.8 |
| 1858.7 |
| 1715.8 |
| 1603.8 |
| 1518.0 |
| 1453.6 |
| 1370.2 |
| 1515.6 |
| 1122.4 |
| 888.9  |
| 714.9  |
| 531.4  |
| 219.2  |
| 0.0    |