

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: P953425

Luminaire Tested: **GALN-SB7A-727-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-727-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29410 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
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

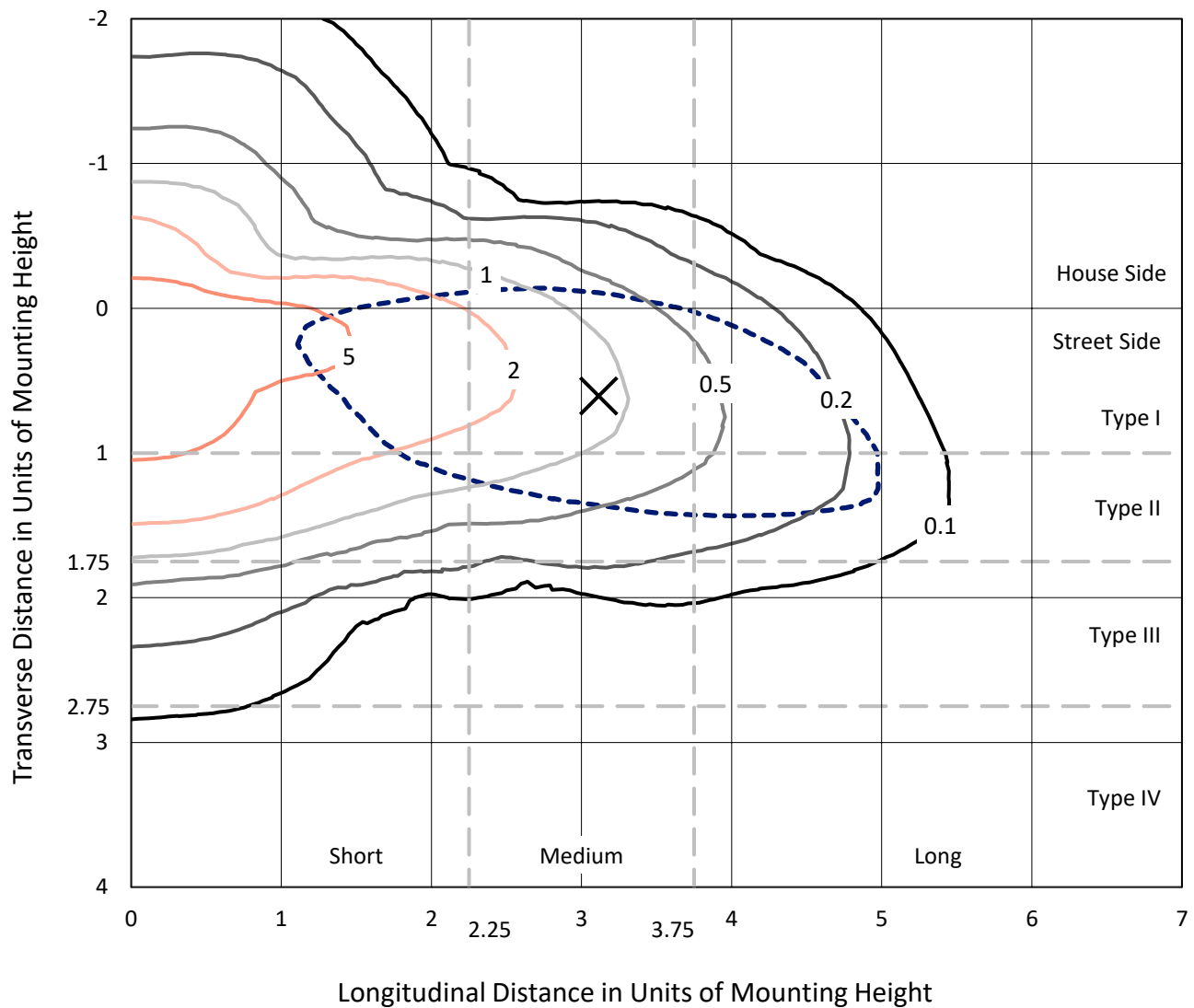


REPORT NUMBER: P953425

CATALOG NUMBER: GALN-SB7A-727-U-SL2

## Iso-Footcandle Lines of Horizontal Illumination

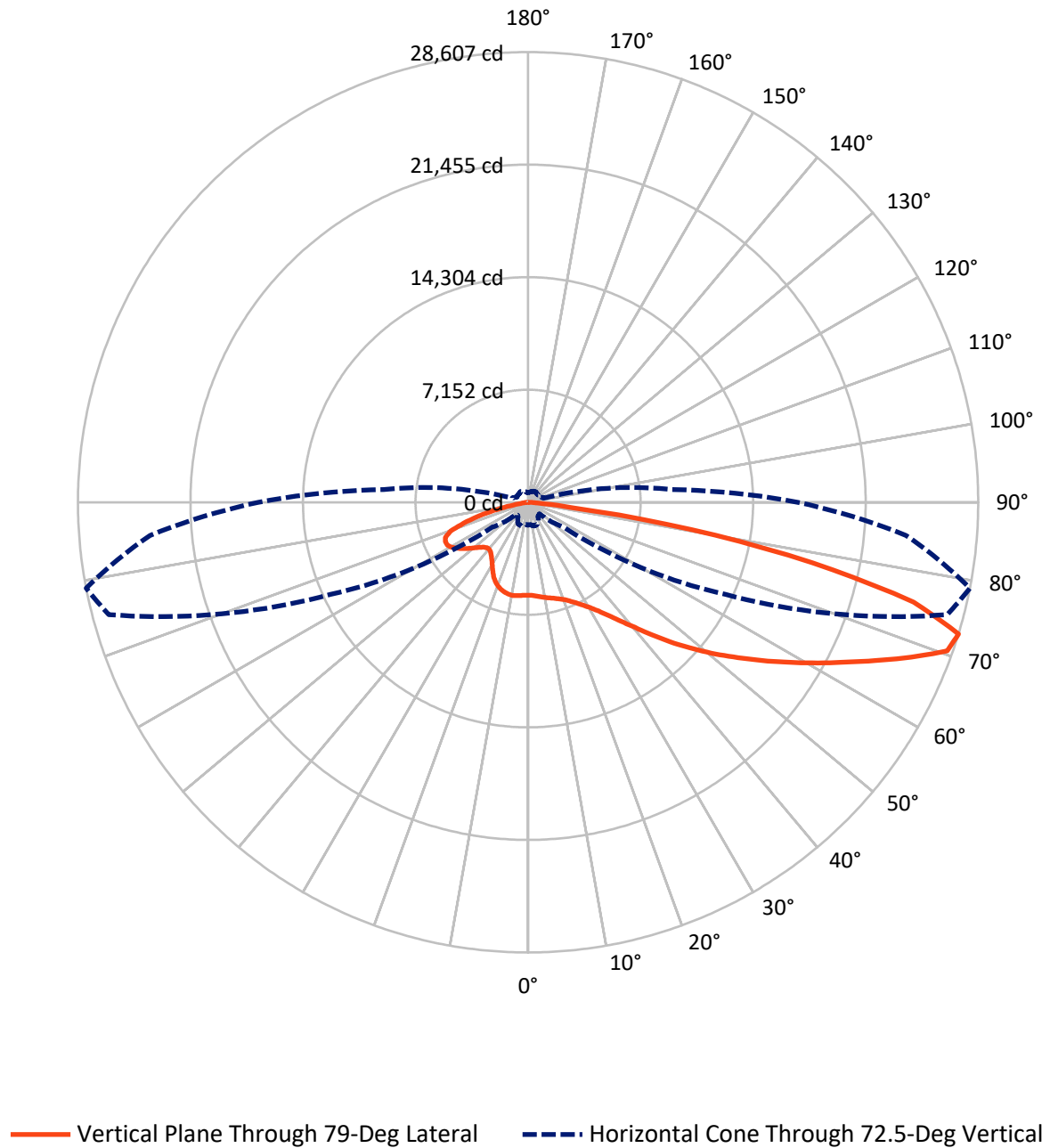
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
Type II - Medium - N/A

REPORT NUMBER: P953425  
CATALOG NUMBER: GALN-SB7A-727-U-SL2

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6471.8   | 0.0    | 6471.8  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 22938.2  | 0.0    | 22938.2 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 29410.0  | 0.0    | 29410.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 535.9   | 1.8       |
| 10°-20°   | 1401.1  | 4.8       |
| 20°-30°   | 2260.8  | 7.7       |
| 30°-40°   | 3393.1  | 11.5      |
| 40°-50°   | 4813.3  | 16.4      |
| 50°-60°   | 6078.6  | 20.7      |
| 60°-70°   | 6173.6  | 21.0      |
| 70°-80°   | 4207.6  | 14.3      |
| 80°-90°   | 545.9   | 1.9       |
| 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°    | 29410.0 | 100.0     |
| 0°-180°   | 29410.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P953425

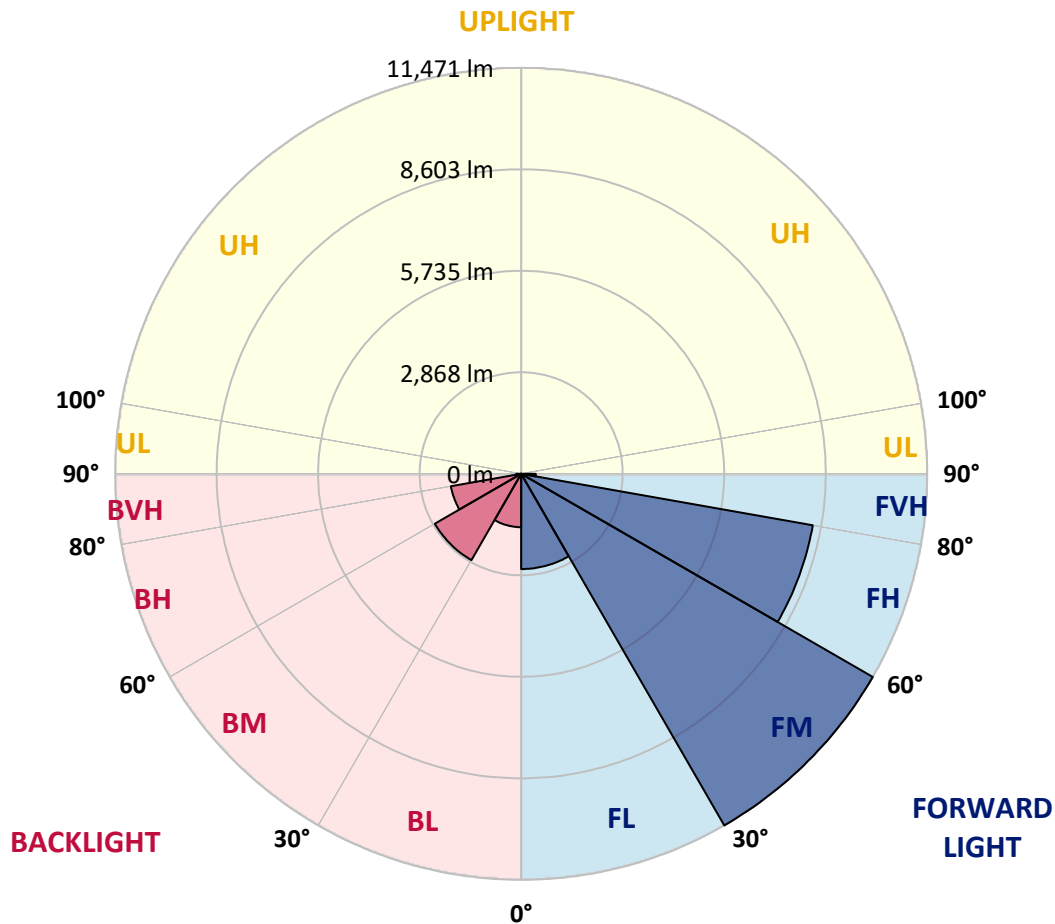
CATALOG NUMBER: GALN-SB7A-727-U-SL2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2690.3  | 9.1       |                         |      |          |
| FM   | (30°-60°)   | 11470.5 | 39.0      |                         |      |          |
| FH   | (60°-80°)   | 8366.1  | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 411.2   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1507.5  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2814.6  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2015.1  | 6.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 134.7   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



REPORT NUMBER: P953425

CATALOG NUMBER: GALN-SB7A-727-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8  | 5903.8  | 5903.8  | 5903.8  | 5903.8  |
| 2.5°  | 5906.9 | 5878.9 | 5896.0 | 5889.8 | 5897.6 | 5906.9 | 5910.0  | 5914.7  | 5930.2  | 5928.7  | 5927.1  |
| 5°    | 5894.4 | 5866.4 | 5889.8 | 5882.0 | 5902.2 | 5924.0 | 5942.7  | 5959.8  | 5984.7  | 5995.6  | 5980.0  |
| 7.5°  | 5868.0 | 5849.3 | 5872.7 | 5896.0 | 5933.3 | 5966.0 | 5992.5  | 6031.3  | 6067.1  | 6073.3  | 6084.2  |
| 10°   | 5714.0 | 5700.0 | 5754.4 | 5815.1 | 5917.8 | 6006.5 | 6064.0  | 6109.1  | 6148.0  | 6154.2  | 6169.8  |
| 12.5° | 5553.8 | 5536.6 | 5597.3 | 5679.8 | 5846.2 | 6006.5 | 6127.8  | 6186.9  | 6221.1  | 6241.4  | 6264.7  |
| 15°   | 5527.3 | 5513.3 | 5547.5 | 5619.1 | 5757.5 | 5964.4 | 6171.4  | 6280.3  | 6309.8  | 6333.1  | 6342.5  |
| 17.5° | 5654.9 | 5628.4 | 5642.4 | 5667.3 | 5748.2 | 5925.6 | 6205.6  | 6386.0  | 6431.2  | 6456.0  | 6456.0  |
| 20°   | 5950.4 | 5913.1 | 5891.3 | 5841.6 | 5827.5 | 5931.8 | 6202.5  | 6513.6  | 6572.7  | 6603.8  | 6611.6  |
| 22.5° | 6344.0 | 6319.1 | 6272.5 | 6146.5 | 6009.6 | 6008.0 | 6261.6  | 6676.9  | 6787.4  | 6817.0  | 6798.3  |
| 25°   | 6820.1 | 6782.7 | 6723.6 | 6552.5 | 6289.6 | 6158.9 | 6361.1  | 6885.4  | 7070.5  | 7078.3  | 7023.9  |
| 27.5° | 7367.7 | 7311.7 | 7230.8 | 7005.2 | 6650.5 | 6395.4 | 6513.6  | 7125.0  | 7395.7  | 7392.6  | 7280.5  |
| 30°   | 7944.8 | 7888.8 | 7803.3 | 7529.5 | 7083.0 | 6714.3 | 6725.2  | 7383.2  | 7781.5  | 7764.4  | 7573.0  |
| 32.5° | 8366.4 | 8324.4 | 8307.3 | 8095.7 | 7580.8 | 7090.8 | 6967.9  | 7669.5  | 8257.5  | 8242.0  | 7974.4  |
| 35°   | 8690.0 | 8635.5 | 8655.8 | 8548.4 | 8123.7 | 7512.3 | 7265.0  | 8010.2  | 8836.2  | 8834.7  | 8501.8  |
| 37.5° | 9010.5 | 8962.2 | 8979.3 | 8907.8 | 8626.2 | 8047.5 | 7627.5  | 8427.1  | 9553.4  | 9587.6  | 9139.6  |
| 40°   | 9302.9 | 9251.6 | 9320.0 | 9253.1 | 9016.7 | 8616.9 | 8039.7  | 8898.4  | 10384.1 | 10449.5 | 9911.2  |
| 42.5° | 9478.7 | 9438.3 | 9551.8 | 9553.4 | 9355.8 | 9097.6 | 8492.4  | 9418.0  | 11345.5 | 11491.8 | 10860.2 |
| 45°   | 9539.4 | 9525.4 | 9696.5 | 9732.3 | 9656.1 | 9376.0 | 8900.0  | 9984.3  | 12381.6 | 12643.0 | 11941.3 |
| 47.5° | 9474.0 | 9447.6 | 9684.1 | 9816.3 | 9877.0 | 9506.7 | 9237.6  | 10597.2 | 13439.5 | 13822.2 | 13120.5 |
| 50°   | 9144.2 | 9092.9 | 9444.5 | 9723.0 | 9939.2 | 9592.3 | 9578.3  | 11305.1 | 14642.0 | 15060.5 | 14306.0 |
| 52.5° | 8551.5 | 8512.6 | 8912.4 | 9396.3 | 9802.3 | 9634.3 | 9961.0  | 12078.2 | 15783.9 | 16325.2 | 15520.9 |
| 55°   | 7793.9 | 7742.6 | 8182.8 | 8814.4 | 9461.6 | 9620.3 | 10343.7 | 12943.2 | 17131.1 | 17680.2 | 16776.4 |
| 57.5° | 6592.9 | 6490.3 | 7047.2 | 7793.9 | 8906.2 | 9603.2 | 10741.9 | 13803.5 | 18500.1 | 19158.1 | 18115.8 |
| 60°   | 4841.3 | 4688.8 | 5371.7 | 6256.9 | 7820.4 | 9436.7 | 11235.1 | 14768.0 | 20142.9 | 20735.6 | 19578.1 |
| 62.5° | 2818.9 | 2730.2 | 3176.7 | 4002.7 | 5894.4 | 8456.6 | 11512.0 | 15889.6 | 21757.6 | 22379.9 | 21015.6 |
| 65°   | 2188.8 | 2163.9 | 2202.8 | 2266.6 | 3280.9 | 6331.6 | 10657.9 | 16983.3 | 23811.1 | 24246.7 | 22513.7 |
| 67.5° | 2002.2 | 1983.5 | 2000.6 | 1880.8 | 1664.6 | 3526.7 | 8431.7  | 17260.2 | 26010.8 | 26275.3 | 23825.1 |
| 70°   | 1779.7 | 1757.9 | 1813.9 | 1711.2 | 1309.9 | 1603.9 | 5448.0  | 16255.2 | 27761.0 | 28257.2 | 24822.3 |
| 72.5° | 1449.9 | 1425.0 | 1555.7 | 1509.0 | 1103.0 | 1029.9 | 2736.4  | 13867.3 | 27577.4 | 28607.3 | 24108.3 |
| 75°   | 1113.9 | 1099.9 | 1255.4 | 1294.3 | 899.2  | 810.5  | 1313.0  | 10307.9 | 24268.5 | 25306.1 | 20777.6 |
| 77.5° | 865.0  | 854.1  | 933.4  | 1075.0 | 724.9  | 628.5  | 807.4   | 6538.5  | 18288.5 | 18470.5 | 14318.4 |
| 80°   | 648.7  | 617.6  | 690.7  | 832.3  | 564.7  | 458.9  | 547.6   | 3813.0  | 11560.2 | 10479.0 | 6232.0  |
| 82.5° | 406.0  | 390.5  | 451.1  | 555.4  | 398.3  | 315.8  | 356.2   | 2106.4  | 4632.8  | 2728.6  | 1202.5  |
| 85°   | 231.8  | 225.6  | 245.8  | 317.4  | 216.2  | 182.0  | 203.8   | 930.3   | 846.3   | 581.8   | 362.5   |
| 87.5° | 93.3   | 90.2   | 112.0  | 141.6  | 79.3   | 66.9   | 71.6    | 224.0   | 186.7   | 172.7   | 119.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P953425

CATALOG NUMBER: GALN-SB7A-727-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5903.8  | 5903.8  | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 | 5903.8 |
| 2.5°  | 5920.9  | 5920.9  | 5899.1 | 5864.9 | 5826.0 | 5801.1 | 5760.7 | 5749.8 | 5707.8 | 5695.3 | 5715.5 |
| 5°    | 5992.5  | 5980.0  | 5913.1 | 5816.7 | 5684.4 | 5563.1 | 5429.3 | 5345.3 | 5227.1 | 5185.1 | 5216.2 |
| 7.5°  | 6082.7  | 6048.5  | 5933.3 | 5721.8 | 5444.9 | 5172.6 | 4889.5 | 4674.8 | 4469.4 | 4396.3 | 4405.7 |
| 10°   | 6165.1  | 6116.9  | 5920.9 | 5550.6 | 5071.5 | 4600.1 | 4149.0 | 3833.2 | 3593.6 | 3495.6 | 3517.4 |
| 12.5° | 6247.6  | 6158.9  | 5838.4 | 5266.0 | 4541.0 | 3901.6 | 3420.9 | 3175.1 | 3027.3 | 2909.1 | 2948.0 |
| 15°   | 6325.4  | 6200.9  | 5710.9 | 4884.8 | 3959.2 | 3310.5 | 2955.8 | 2759.8 | 2641.5 | 2563.7 | 2577.7 |
| 17.5° | 6415.6  | 6236.7  | 5519.5 | 4401.0 | 3405.4 | 2901.3 | 2612.0 | 2493.7 | 2470.4 | 2461.1 | 2467.3 |
| 20°   | 6541.6  | 6269.4  | 5267.5 | 3859.6 | 2997.8 | 2574.6 | 2425.3 | 2414.4 | 2412.8 | 2408.2 | 2423.7 |
| 22.5° | 6676.9  | 6308.3  | 4934.6 | 3368.0 | 2650.9 | 2370.8 | 2344.4 | 2322.6 | 2308.6 | 2307.1 | 2324.2 |
| 25°   | 6837.2  | 6320.7  | 4517.7 | 2965.1 | 2355.3 | 2274.4 | 2243.3 | 2210.6 | 2201.3 | 2201.3 | 2210.6 |
| 27.5° | 6992.7  | 6278.7  | 4032.3 | 2615.1 | 2188.8 | 2185.7 | 2145.3 | 2134.4 | 2132.8 | 2137.5 | 2149.9 |
| 30°   | 7148.3  | 6199.4  | 3550.0 | 2291.5 | 2092.4 | 2092.4 | 2078.4 | 2086.2 | 2092.4 | 2107.9 | 2118.8 |
| 32.5° | 7358.3  | 6115.3  | 3147.1 | 2051.9 | 2008.4 | 1992.8 | 2006.8 | 2022.4 | 2028.6 | 2048.8 | 2065.9 |
| 35°   | 7666.4  | 6056.2  | 2826.7 | 1921.3 | 1921.3 | 1901.0 | 1908.8 | 1905.7 | 1891.7 | 1882.4 | 1904.1 |
| 37.5° | 8073.9  | 6053.1  | 2562.2 | 1860.6 | 1848.1 | 1845.0 | 1846.6 | 1826.4 | 1771.9 | 1706.6 | 1708.1 |
| 40°   | 8564.0  | 6137.1  | 2358.4 | 1818.6 | 1809.2 | 1827.9 | 1818.6 | 1764.1 | 1614.8 | 1501.2 | 1498.1 |
| 42.5° | 9222.0  | 6376.7  | 2227.7 | 1767.2 | 1795.2 | 1818.6 | 1781.2 | 1593.0 | 1491.9 | 1415.7 | 1412.6 |
| 45°   | 9996.8  | 6765.6  | 2160.8 | 1712.8 | 1768.8 | 1796.8 | 1616.3 | 1533.9 | 1453.0 | 1361.2 | 1355.0 |
| 47.5° | 10874.2 | 7255.7  | 2145.3 | 1661.5 | 1709.7 | 1726.8 | 1546.3 | 1509.0 | 1417.2 | 1317.7 | 1309.9 |
| 50°   | 11829.3 | 7835.9  | 2187.3 | 1600.8 | 1624.1 | 1565.0 | 1523.0 | 1488.8 | 1393.9 | 1295.9 | 1285.0 |
| 52.5° | 12817.2 | 8475.3  | 2271.3 | 1518.3 | 1538.6 | 1473.2 | 1513.7 | 1484.1 | 1379.9 | 1247.6 | 1238.3 |
| 55°   | 13787.9 | 9119.4  | 2352.2 | 1421.9 | 1451.4 | 1390.8 | 1487.2 | 1465.4 | 1316.1 | 1166.8 | 1159.0 |
| 57.5° | 14774.2 | 9760.3  | 2431.5 | 1336.3 | 1367.4 | 1311.4 | 1445.2 | 1415.7 | 1244.5 | 1092.1 | 1089.0 |
| 60°   | 15799.4 | 10382.6 | 2468.9 | 1253.9 | 1275.7 | 1238.3 | 1381.4 | 1330.1 | 1163.6 | 1015.9 | 1011.2 |
| 62.5° | 16759.3 | 10900.6 | 2408.2 | 1171.4 | 1185.4 | 1169.9 | 1297.4 | 1229.0 | 1082.7 | 930.3  | 928.7  |
| 65°   | 17722.2 | 11208.6 | 2221.5 | 1090.5 | 1093.6 | 1085.9 | 1179.2 | 1120.1 | 987.9  | 855.6  | 846.3  |
| 67.5° | 18595.0 | 11381.3 | 1924.4 | 1003.4 | 995.6  | 992.5  | 1068.7 | 1001.9 | 896.1  | 780.9  | 771.6  |
| 70°   | 18780.1 | 10942.6 | 1470.1 | 900.7  | 900.7  | 893.0  | 947.4  | 879.0  | 794.9  | 701.6  | 698.5  |
| 72.5° | 17152.8 | 9204.9  | 1043.9 | 784.1  | 796.5  | 780.9  | 826.1  | 768.5  | 692.3  | 630.0  | 611.4  |
| 75°   | 13831.5 | 6750.1  | 759.2  | 664.3  | 686.1  | 659.6  | 701.6  | 661.2  | 595.8  | 594.3  | 535.2  |
| 77.5° | 9503.6  | 4173.9  | 550.7  | 547.6  | 563.2  | 528.9  | 577.2  | 555.4  | 496.3  | 469.8  | 440.3  |
| 80°   | 4055.6  | 1664.6  | 401.4  | 423.1  | 423.1  | 392.0  | 448.0  | 454.3  | 402.9  | 390.5  | 390.5  |
| 82.5° | 807.4   | 472.9   | 281.6  | 290.9  | 273.8  | 264.5  | 317.4  | 351.6  | 485.4  | 539.8  | 541.4  |
| 85°   | 242.7   | 174.2   | 169.6  | 158.7  | 140.0  | 141.6  | 186.7  | 353.1  | 435.6  | 248.9  | 214.7  |
| 87.5° | 66.9    | 43.6    | 45.1   | 35.8   | 29.6   | 38.9   | 63.8   | 267.6  | 146.2  | 62.2   | 52.9   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)