

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: P954718

Luminaire Tested: **GLAN-SB7D-850-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-850-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 71063 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8  
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



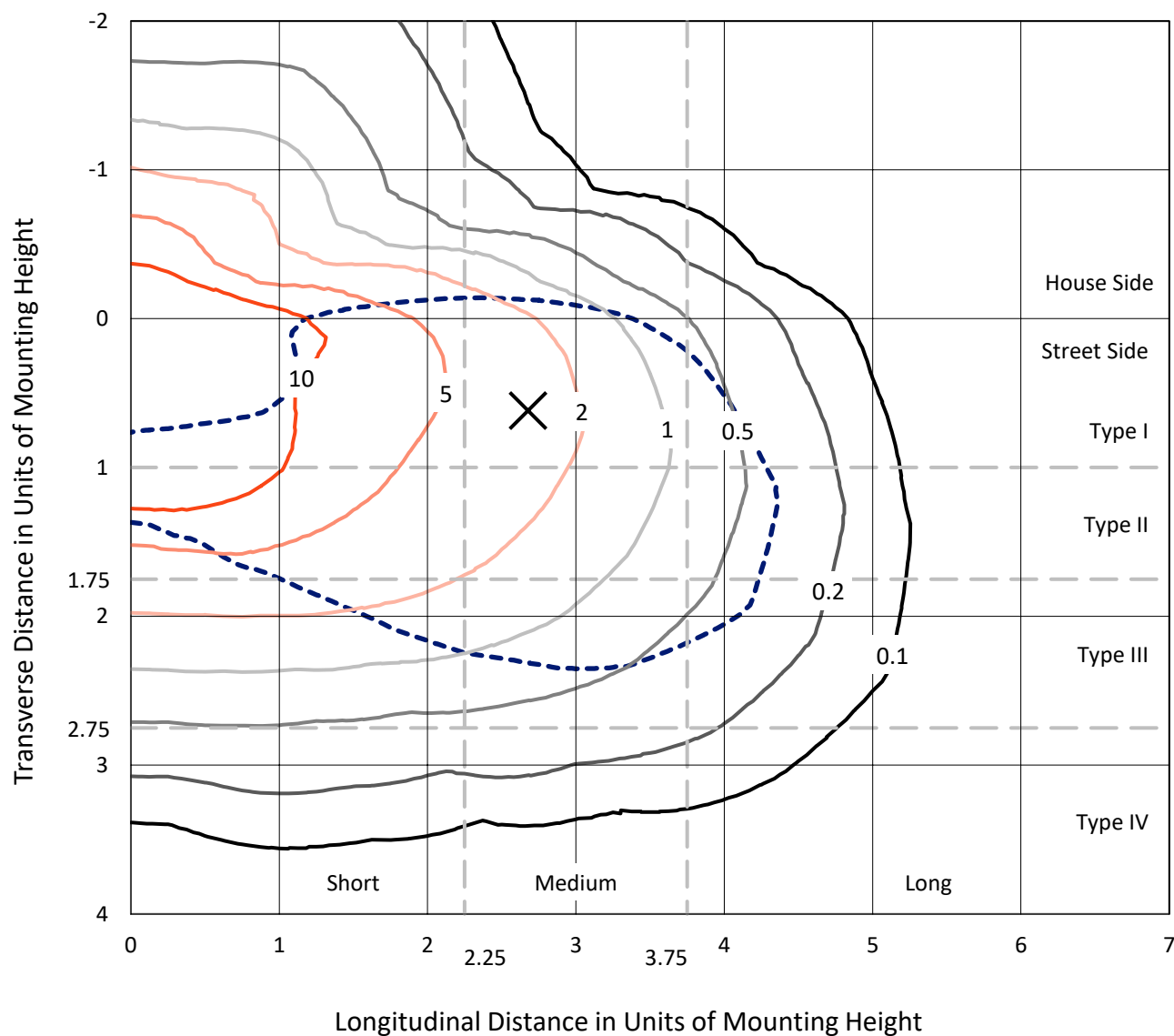
REPORT NUMBER: P954718

CATALOG NUMBER: GLAN-SB7D-850-U-T3R

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

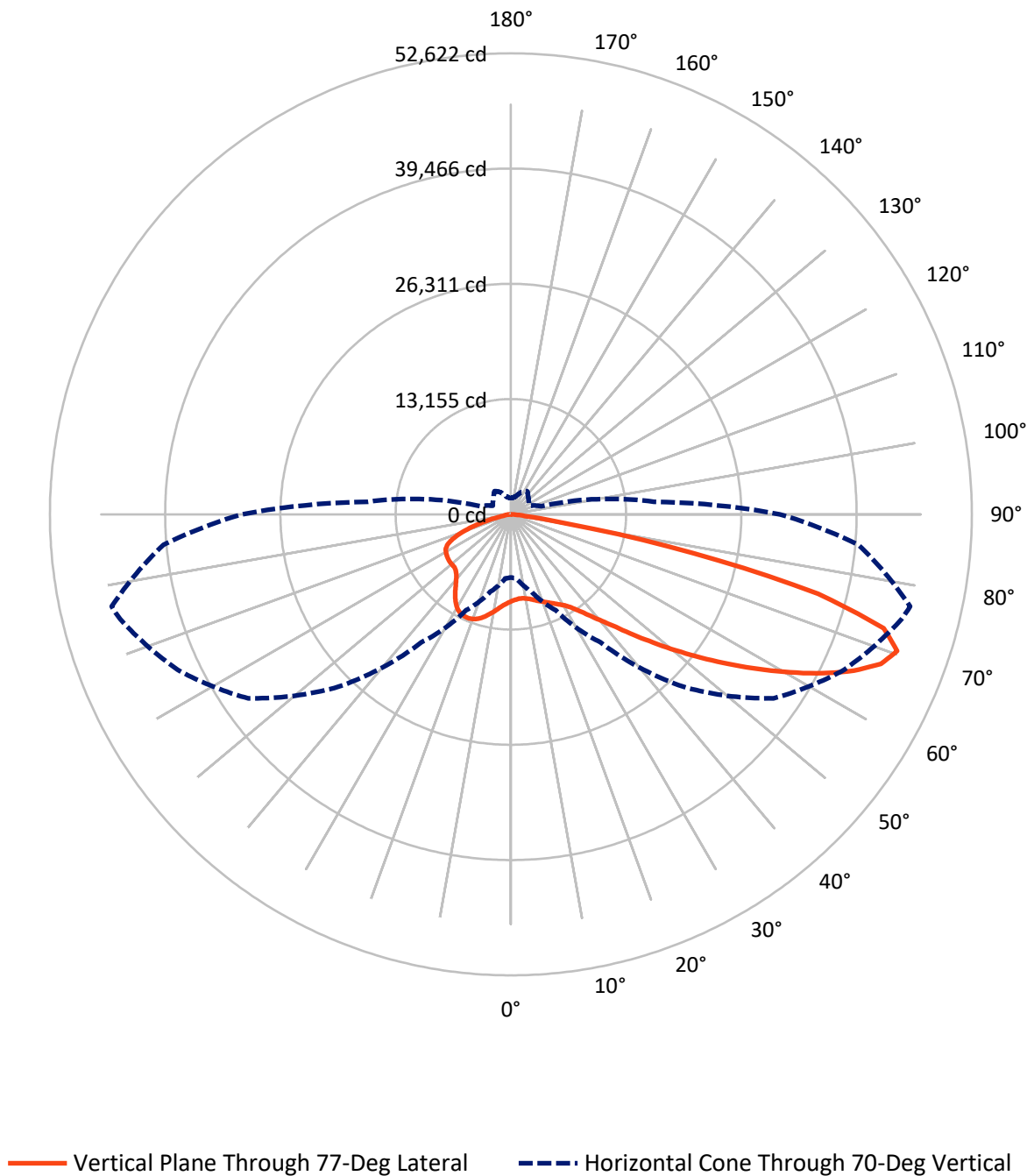


Based on 25 foot mounting height. Maximum calculated value = 18.8 fc

Type III - Medium - N/A

REPORT NUMBER: P954718  
CATALOG NUMBER: GLAN-SB7D-850-U-T3R

## Luminous Intensity Polar Plot



REPORT NUMBER: P954718

CATALOG NUMBER: GLAN-SB7D-850-U-T3R

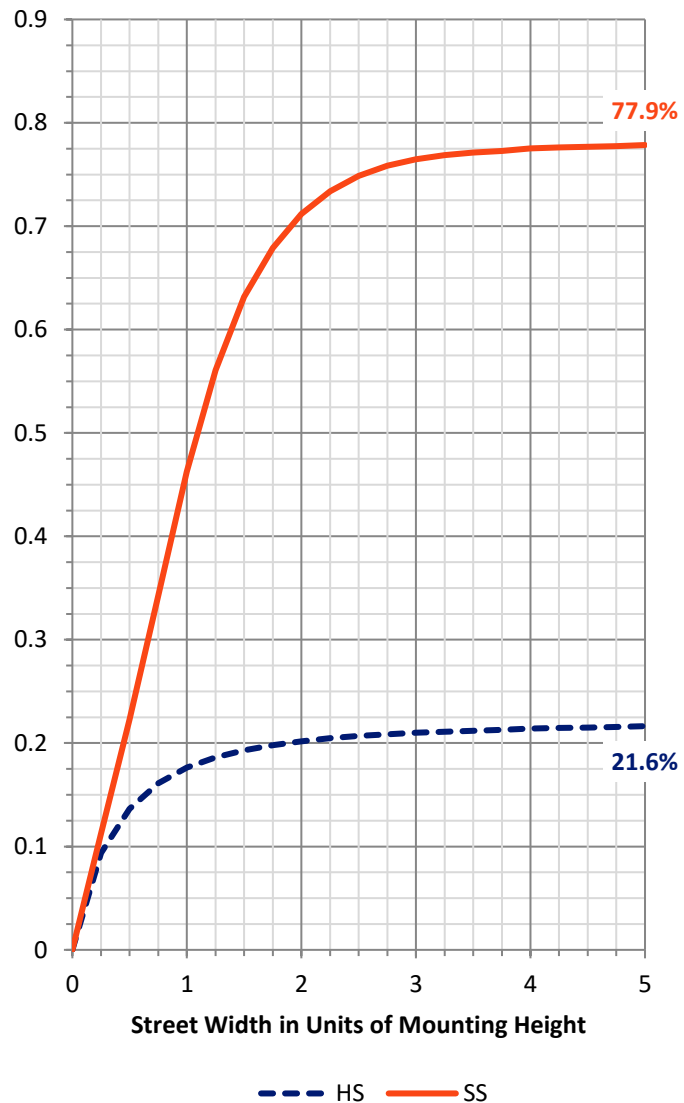
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15561.7  | 0.0    | 15561.7 |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 55501.3  | 0.0    | 55501.3 |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 71063.0  | 0.0    | 71063.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 945.5   | 1.3       |
| 10°-20°   | 2728.9  | 3.8       |
| 20°-30°   | 4666.8  | 6.6       |
| 30°-40°   | 7504.6  | 10.6      |
| 40°-50°   | 11716.7 | 16.5      |
| 50°-60°   | 15650.7 | 22.0      |
| 60°-70°   | 16681.2 | 23.5      |
| 70°-80°   | 10268.8 | 14.5      |
| 80°-90°   | 899.8   | 1.3       |
| 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°    | 71063.0 | 100.0     |
| 0°-180°   | 71063.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P954718

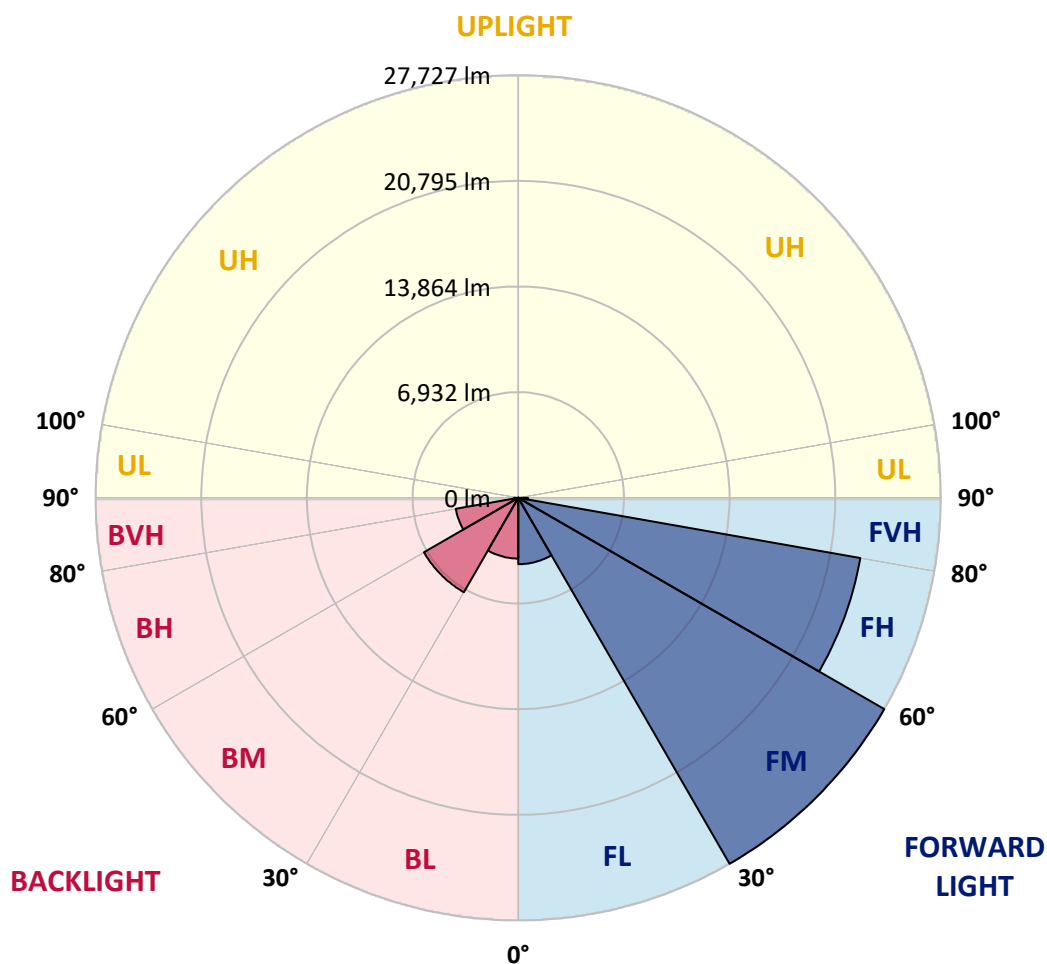
CATALOG NUMBER: GLAN-SB7D-850-U-T3R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4353.8  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 27727.2 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 22791.1 | 32.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 629.2   | 0.9       |                         |      | G4/750  |
| BL   | (0°-30°)    | 3987.4  | 5.6       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 7144.7  | 10.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4159.0  | 5.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 270.6   | 0.4       |                         |      | 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 III Medium



REPORT NUMBER: P954718

CATALOG NUMBER: GLAN-SB7D-850-U-T3R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  |
| 2.5°  | 9138.7  | 9135.1  | 9182.4  | 9197.0  | 9284.3  | 9346.2  | 9462.6  | 9586.4  | 9746.5  | 9764.7  |
| 5°    | 8611.0  | 8611.0  | 8665.6  | 8723.8  | 8836.7  | 8960.4  | 9138.7  | 9353.5  | 9630.1  | 9673.7  |
| 7.5°  | 8163.3  | 8192.5  | 8239.8  | 8352.6  | 8483.6  | 8662.0  | 8934.9  | 9240.6  | 9604.6  | 9673.7  |
| 10°   | 7803.0  | 7835.8  | 7894.0  | 7985.0  | 8181.5  | 8429.0  | 8785.7  | 9178.8  | 9666.5  | 9775.6  |
| 12.5° | 7690.2  | 7723.0  | 7755.7  | 7824.9  | 8006.9  | 8298.0  | 8723.8  | 9207.9  | 9815.7  | 9924.9  |
| 15°   | 7952.3  | 7992.3  | 7966.8  | 7948.6  | 8043.2  | 8308.9  | 8752.9  | 9313.4  | 10001.3 | 10157.8 |
| 17.5° | 8556.4  | 8571.0  | 8512.7  | 8341.7  | 8327.1  | 8469.1  | 8891.2  | 9459.0  | 10234.2 | 10405.3 |
| 20°   | 9531.8  | 9506.3  | 9386.2  | 9047.7  | 8854.8  | 8825.7  | 9127.8  | 9677.4  | 10474.4 | 10656.4 |
| 22.5° | 10856.6 | 10827.4 | 10587.2 | 10052.2 | 9622.8  | 9338.9  | 9469.9  | 9961.2  | 10743.7 | 10947.5 |
| 25°   | 12508.9 | 12468.9 | 12115.8 | 11387.9 | 10721.9 | 10019.5 | 9935.8  | 10336.1 | 11074.9 | 11264.2 |
| 27.5° | 14437.8 | 14405.1 | 14022.9 | 13062.1 | 12101.3 | 10951.2 | 10514.5 | 10776.5 | 11420.7 | 11635.4 |
| 30°   | 16512.3 | 16606.9 | 15930.0 | 14896.4 | 13680.8 | 12166.8 | 11293.3 | 11318.8 | 11868.3 | 12061.2 |
| 32.5° | 18950.8 | 19114.5 | 18299.3 | 16989.1 | 15329.5 | 13487.9 | 12276.0 | 12075.8 | 12519.8 | 12679.9 |
| 35°   | 21367.4 | 21553.0 | 20876.0 | 19427.5 | 17516.8 | 15045.6 | 13302.3 | 12945.6 | 13386.0 | 13560.7 |
| 37.5° | 23456.4 | 23703.9 | 23354.5 | 22095.3 | 19857.0 | 16923.6 | 14641.6 | 13968.3 | 14452.4 | 14670.7 |
| 40°   | 25105.1 | 25483.6 | 25458.1 | 24672.0 | 22615.7 | 19201.9 | 16341.3 | 15231.2 | 15777.1 | 16013.7 |
| 42.5° | 26444.4 | 26772.0 | 27055.9 | 27015.8 | 25494.5 | 21789.6 | 18339.3 | 16872.6 | 17287.5 | 17560.5 |
| 45°   | 27368.9 | 27718.3 | 28329.7 | 28988.4 | 28264.2 | 24559.2 | 20628.6 | 18819.7 | 19198.2 | 19609.5 |
| 47.5° | 28195.0 | 28591.7 | 29385.1 | 30429.7 | 30615.3 | 27339.8 | 23136.2 | 21087.1 | 21432.9 | 21858.7 |
| 50°   | 28267.8 | 28609.9 | 29840.1 | 31321.3 | 32285.8 | 30011.1 | 25829.4 | 23631.1 | 23955.0 | 24410.0 |
| 52.5° | 26510.0 | 27048.6 | 29195.9 | 31295.9 | 33053.7 | 32245.8 | 28504.4 | 26277.0 | 26641.0 | 27186.9 |
| 55°   | 20577.6 | 21367.4 | 27307.0 | 30320.5 | 32780.8 | 33690.6 | 31048.4 | 29090.3 | 29556.2 | 30127.6 |
| 57.5° | 17724.3 | 18070.0 | 21676.7 | 28544.4 | 31536.1 | 34065.5 | 33195.7 | 31932.8 | 32682.5 | 33308.5 |
| 60°   | 15930.0 | 16217.5 | 18350.2 | 25782.1 | 29898.3 | 33472.3 | 34855.3 | 34582.3 | 35878.0 | 36624.1 |
| 62.5° | 14008.3 | 14281.3 | 16221.2 | 21527.5 | 27802.0 | 32486.0 | 35903.4 | 37028.0 | 39153.5 | 39968.7 |
| 65°   | 12101.3 | 12334.2 | 14194.0 | 18088.2 | 25137.9 | 31499.7 | 36445.7 | 39142.6 | 42185.2 | 43029.5 |
| 67.5° | 9975.8  | 10168.7 | 11926.6 | 15260.3 | 21898.7 | 30149.4 | 36715.0 | 40805.8 | 44823.8 | 45548.1 |
| 70°   | 7198.9  | 7348.1  | 9164.2  | 12068.5 | 17833.4 | 27827.4 | 36605.9 | 41985.0 | 46192.2 | 46770.9 |
| 72.5° | 3402.9  | 3537.6  | 5670.3  | 7835.8  | 12596.2 | 23307.2 | 34396.7 | 41049.7 | 44802.0 | 44514.4 |
| 75°   | 1816.1  | 1932.6  | 3257.3  | 4298.2  | 6653.0  | 15977.3 | 28147.7 | 35361.2 | 37621.3 | 36223.7 |
| 77.5° | 1230.1  | 1321.1  | 2016.3  | 2580.4  | 3039.0  | 7584.7  | 18091.8 | 24482.8 | 23554.7 | 21247.3 |
| 80°   | 975.4   | 1070.0  | 1652.3  | 1746.9  | 1470.3  | 2740.5  | 7475.5  | 11333.3 | 8141.5  | 6511.0  |
| 82.5° | 749.7   | 855.3   | 1390.3  | 1266.5  | 800.7   | 1124.6  | 2176.4  | 3584.9  | 2085.4  | 1586.8  |
| 85°   | 458.6   | 571.4   | 1091.8  | 808.0   | 451.3   | 513.2   | 738.8   | 997.2   | 636.9   | 531.4   |
| 87.5° | 232.9   | 327.6   | 553.2   | 294.8   | 203.8   | 120.1   | 196.5   | 196.5   | 167.4   | 145.6   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P954718  
CATALOG NUMBER: GLAN-SB7D-850-U-T3R

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9913.9  | 0°    | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  | 9913.9  |
| 9863.0  | 2.5°  | 9950.3  | 10023.1 | 10146.9 | 10263.3 | 10354.3 | 10441.7 | 10529.0 | 10576.3 | 10590.9 | 10649.1 |
| 9917.6  | 5°    | 10066.8 | 10201.5 | 10441.7 | 10667.3 | 10809.2 | 10896.6 | 10958.5 | 10994.9 | 11002.1 | 11020.3 |
| 10066.8 | 7.5°  | 10281.5 | 10496.3 | 10831.1 | 11056.7 | 11162.3 | 11155.0 | 11129.5 | 11038.5 | 11002.1 | 10969.4 |
| 10285.2 | 10°   | 10583.6 | 10867.5 | 11278.7 | 11435.2 | 11369.7 | 11195.0 | 10969.4 | 10703.7 | 10580.0 | 10459.9 |
| 10583.6 | 12.5° | 10958.5 | 11318.8 | 11722.8 | 11715.5 | 11391.6 | 10943.9 | 10419.8 | 10012.2 | 9753.8  | 9568.2  |
| 10951.2 | 15°   | 11413.4 | 11828.3 | 12137.7 | 11890.2 | 11180.5 | 10376.2 | 9608.2  | 9076.9  | 8843.9  | 8640.1  |
| 11322.4 | 17.5° | 11882.9 | 12326.9 | 12468.9 | 11835.6 | 10649.1 | 9535.4  | 8665.6  | 8247.1  | 8017.8  | 7908.6  |
| 11722.8 | 20°   | 12341.5 | 12781.8 | 12665.4 | 11522.6 | 9841.1  | 8581.9  | 7806.7  | 7577.4  | 7530.1  | 7555.6  |
| 12112.2 | 22.5° | 12825.5 | 13218.6 | 12705.4 | 10918.4 | 8811.2  | 7606.5  | 7180.7  | 7188.0  | 7293.5  | 7369.9  |
| 12519.8 | 25°   | 13320.5 | 13586.2 | 12599.9 | 10045.0 | 7704.8  | 6889.5  | 6784.0  | 6900.4  | 7107.9  | 7257.1  |
| 12978.4 | 27.5° | 13797.3 | 13913.7 | 12370.6 | 8964.0  | 6754.9  | 6376.4  | 6394.6  | 6634.8  | 6947.8  | 7155.2  |
| 13535.2 | 30°   | 14335.9 | 14204.9 | 11930.2 | 7748.4  | 6096.1  | 5936.0  | 6088.8  | 6369.1  | 6682.1  | 6867.7  |
| 14237.6 | 32.5° | 14943.7 | 14456.0 | 11231.4 | 6623.8  | 5630.3  | 5583.0  | 5834.1  | 6016.1  | 6154.4  | 6208.9  |
| 15169.3 | 35°   | 15700.7 | 14809.0 | 10336.1 | 5834.1  | 5211.7  | 5324.6  | 5564.8  | 5473.8  | 5419.2  | 5390.1  |
| 16421.3 | 37.5° | 16683.4 | 15285.8 | 9287.9  | 5320.9  | 4873.3  | 5138.9  | 5237.2  | 4953.3  | 4738.6  | 4633.1  |
| 17939.0 | 40°   | 17866.2 | 15984.6 | 8279.8  | 4924.2  | 4658.5  | 4978.8  | 4807.7  | 4465.6  | 4192.7  | 4043.5  |
| 19645.9 | 42.5° | 19180.0 | 16716.1 | 7431.8  | 4625.8  | 4538.4  | 4847.8  | 4491.1  | 4083.5  | 3643.1  | 3595.8  |
| 21680.4 | 45°   | 20559.4 | 17469.5 | 6853.1  | 4396.5  | 4480.2  | 4735.0  | 4309.1  | 3650.4  | 3337.4  | 3530.3  |
| 23722.1 | 47.5° | 21938.8 | 18161.0 | 6503.7  | 4225.4  | 4451.1  | 4607.6  | 4149.0  | 3410.2  | 3188.2  | 3468.4  |
| 25909.4 | 50°   | 23474.6 | 18779.7 | 6347.2  | 4101.7  | 4418.3  | 4556.6  | 3908.8  | 3348.3  | 3031.7  | 3217.3  |
| 28173.2 | 52.5° | 24999.6 | 19260.1 | 6230.8  | 3977.9  | 4371.0  | 4516.6  | 3792.3  | 3275.5  | 2842.4  | 2853.4  |
| 30451.5 | 55°   | 26520.9 | 19573.1 | 6103.4  | 3814.2  | 4265.5  | 4429.2  | 3781.4  | 3195.5  | 2700.5  | 2649.5  |
| 32860.8 | 57.5° | 28144.1 | 19751.4 | 5946.9  | 3632.2  | 4083.5  | 4207.2  | 3770.5  | 3133.6  | 2656.8  | 2573.1  |
| 35324.8 | 60°   | 29796.4 | 20013.5 | 5743.1  | 3410.2  | 3839.6  | 3941.6  | 3745.0  | 3111.8  | 2631.3  | 2489.4  |
| 37646.8 | 62.5° | 31277.7 | 20104.5 | 5499.3  | 3199.1  | 3526.7  | 3679.5  | 3690.4  | 3093.6  | 2562.2  | 2318.3  |
| 39575.7 | 65°   | 32249.4 | 19711.4 | 5073.4  | 2958.9  | 3188.2  | 3410.2  | 3584.9  | 3031.7  | 2438.4  | 2194.6  |
| 40529.2 | 67.5° | 32209.4 | 18590.5 | 4407.4  | 2649.5  | 2860.6  | 3111.8  | 3432.0  | 2926.1  | 2289.2  | 2041.7  |
| 39808.6 | 70°   | 30709.9 | 16377.6 | 3563.0  | 2289.2  | 2500.3  | 2791.5  | 3235.5  | 2769.6  | 2110.9  | 1874.3  |
| 35397.6 | 72.5° | 26338.9 | 12818.2 | 2587.7  | 1867.1  | 2081.8  | 2460.3  | 2980.7  | 2580.4  | 1928.9  | 1725.1  |
| 26160.6 | 75°   | 18816.1 | 8112.4  | 1754.2  | 1434.0  | 1619.6  | 2085.4  | 2664.1  | 2358.4  | 1761.5  | 1732.4  |
| 13102.1 | 77.5° | 9611.9  | 3876.0  | 1161.0  | 1048.2  | 1128.2  | 1645.0  | 2238.3  | 2107.3  | 1787.0  | 1430.3  |
| 3726.8  | 80°   | 3126.3  | 1430.3  | 731.5   | 713.3   | 749.7   | 1095.5  | 1732.4  | 1728.8  | 1353.9  | 971.7   |
| 902.6   | 82.5° | 997.2   | 615.1   | 476.8   | 458.6   | 440.4   | 687.9   | 1208.3  | 1368.4  | 913.5   | 615.1   |
| 323.9   | 85°   | 396.7   | 367.6   | 280.2   | 258.4   | 185.6   | 323.9   | 633.3   | 909.9   | 680.6   | 444.0   |
| 83.7    | 87.5° | 145.6   | 145.6   | 76.4    | 54.6    | 40.0    | 109.2   | 171.1   | 273.0   | 389.4   | 229.3   |
| 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°    |
|---------|
| 9913.9  |
| 10681.9 |
| 11049.5 |
| 10976.7 |
| 10423.5 |
| 9524.5  |
| 8618.3  |
| 7941.3  |
| 7544.6  |
| 7388.1  |
| 7297.2  |
| 7206.2  |
| 6911.4  |
| 6238.1  |
| 5419.2  |
| 4658.5  |
| 4054.4  |
| 3643.1  |
| 3632.2  |
| 3599.4  |
| 3355.6  |
| 2929.8  |
| 2685.9  |
| 2584.0  |
| 2500.3  |
| 2318.3  |
| 2194.6  |
| 2052.7  |
| 1896.2  |
| 1714.2  |
| 1634.1  |
| 1273.8  |
| 858.9   |
| 611.4   |
| 454.9   |
| 225.6   |
| 0.0     |