

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: P949715

Luminaire Tested: **GLAN-SB4B-850-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB4B-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 18277 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

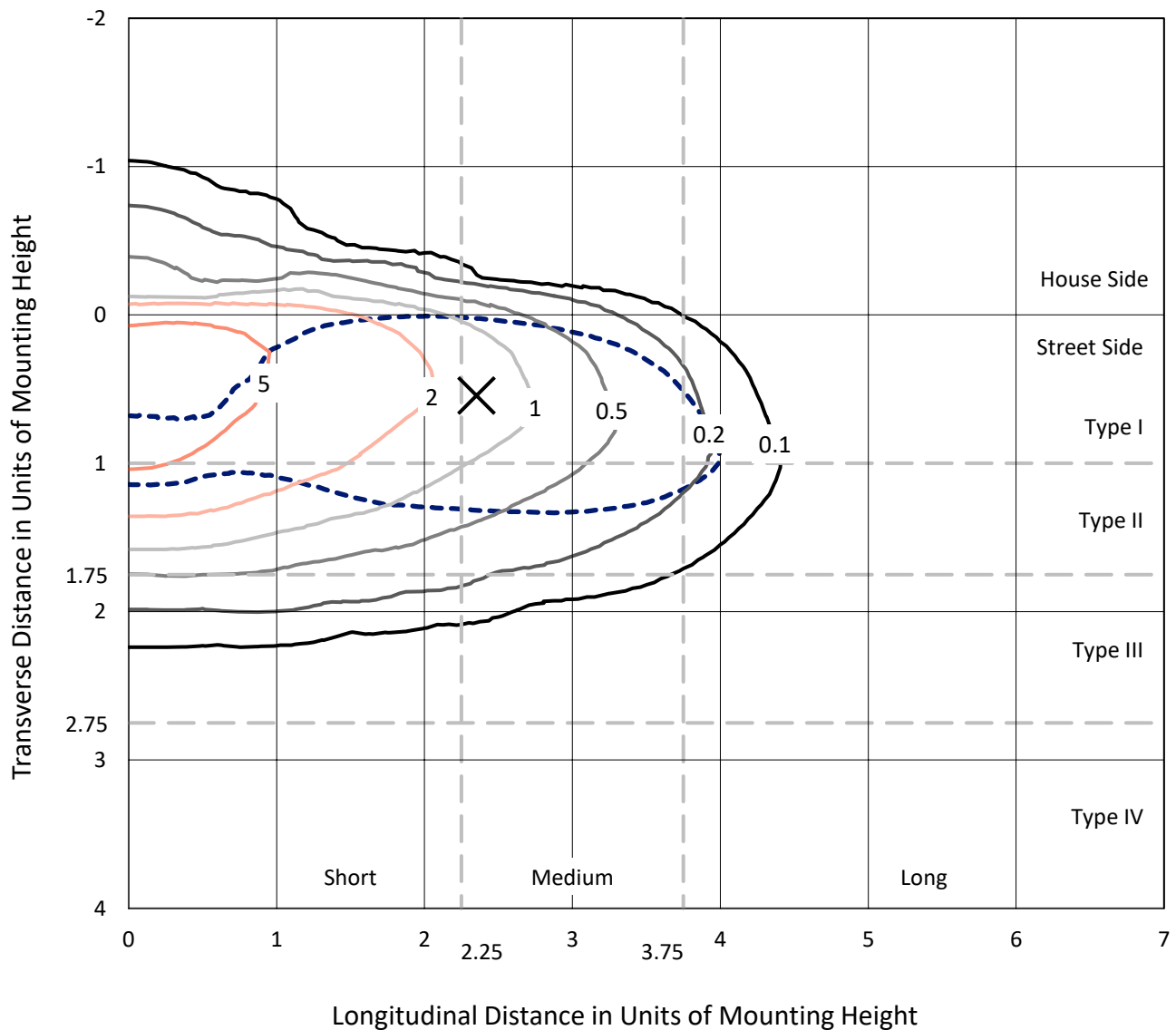
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P949715  
CATALOG NUMBER: GLAN-SB4B-850-U-T2R-HSS

## Iso-Footcandle Lines of Horizontal Illumination

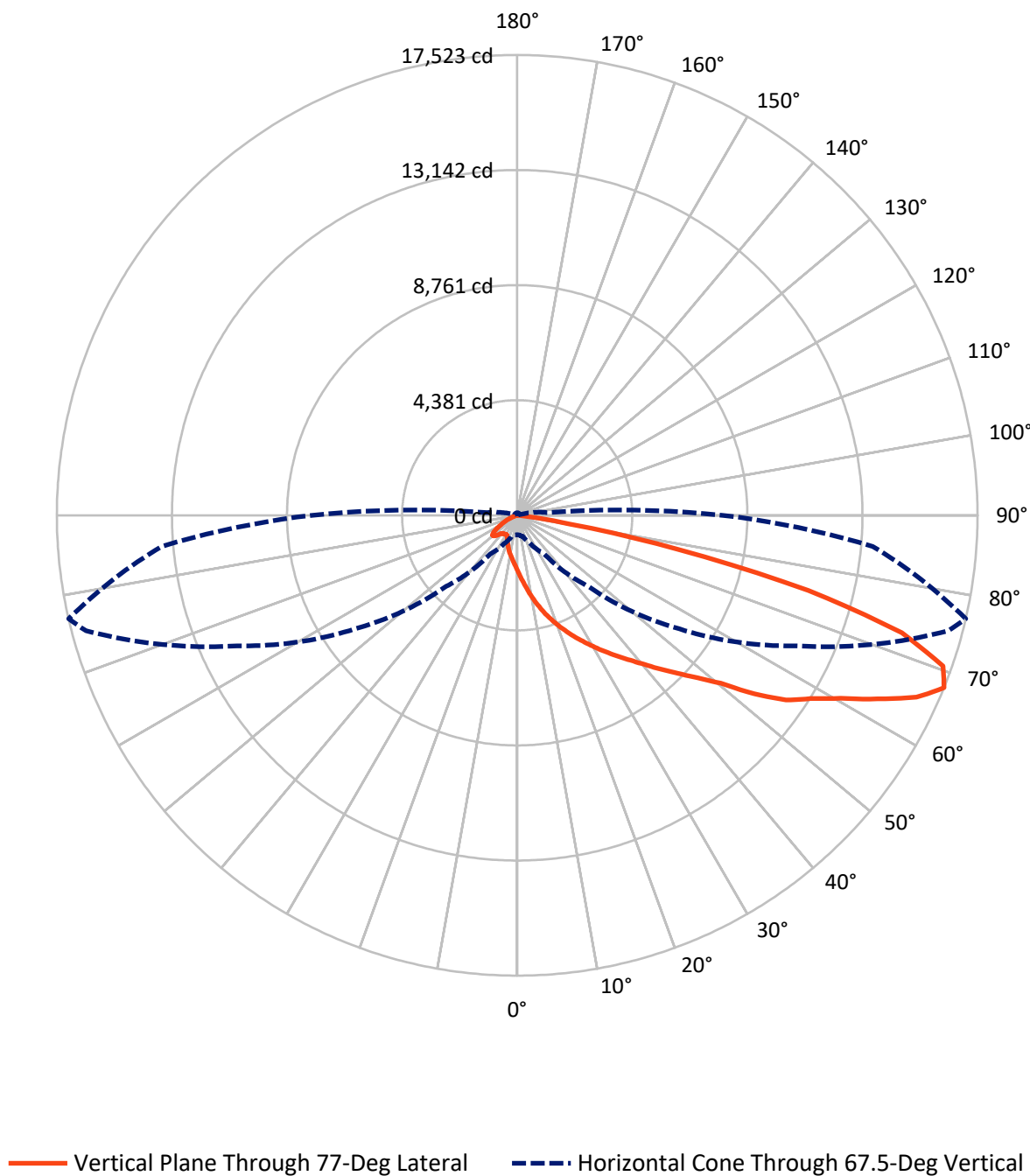
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
Type II - Medium - N/A

REPORT NUMBER: P949715  
CATALOG NUMBER: GLAN-SB4B-850-U-T2R-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P949715

CATALOG NUMBER: GLAN-SB4B-850-U-T2R-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1344.6   | 0.0    | 1344.6  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 16932.4  | 0.0    | 16932.4 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 18277.0  | 0.0    | 18277.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 215.1   | 1.2       |
| 10°-20°   | 753.3   | 4.1       |
| 20°-30°   | 1453.7  | 8.0       |
| 30°-40°   | 2523.7  | 13.8      |
| 40°-50°   | 3664.2  | 20.0      |
| 50°-60°   | 4207.9  | 23.0      |
| 60°-70°   | 3653.3  | 20.0      |
| 70°-80°   | 1720.7  | 9.4       |
| 80°-90°   | 85.1    | 0.5       |
| 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°    | 18277.0 | 100.0     |
| 0°-180°   | 18277.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P949715

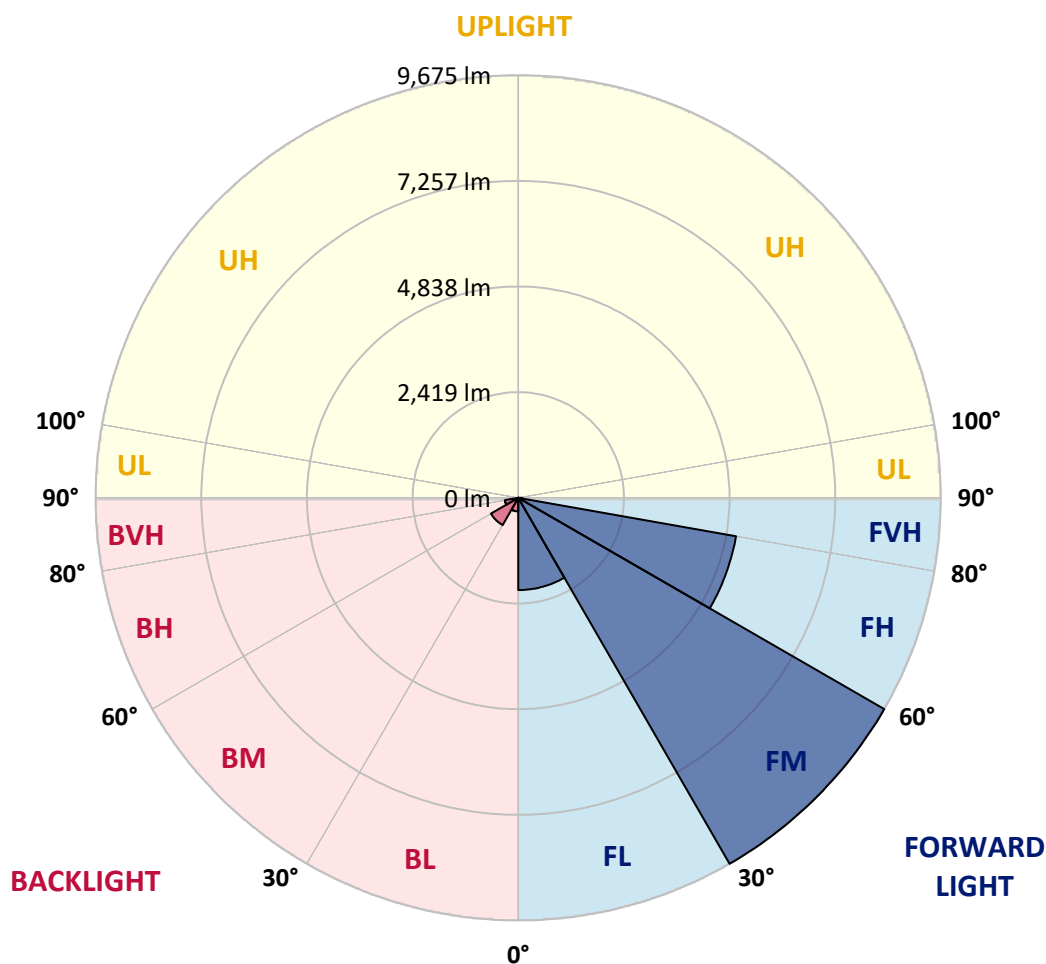
CATALOG NUMBER: GLAN-SB4B-850-U-T2R-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2110.8 | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 9675.4 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 5062.7 | 27.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 83.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 311.3  | 1.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 720.5  | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 311.3  | 1.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Medium



REPORT NUMBER: P949715

CATALOG NUMBER: GLAN-SB4B-850-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6  | 2107.6  | 2107.6  | 2107.6  |
| 2.5°  | 2918.0 | 2936.1 | 2910.0 | 2860.1 | 2785.2 | 2736.4 | 2617.2  | 2504.8  | 2380.0  | 2340.3  |
| 5°    | 3556.9 | 3572.8 | 3543.3 | 3488.8 | 3389.0 | 3293.6 | 3137.0  | 2902.1  | 2658.1  | 2579.7  |
| 7.5°  | 4030.2 | 4039.3 | 4027.9 | 3978.0 | 3882.7 | 3774.9 | 3600.1  | 3322.0  | 2960.0  | 2873.7  |
| 10°   | 4370.7 | 4400.2 | 4396.8 | 4377.5 | 4314.0 | 4226.6 | 4040.4  | 3723.8  | 3298.2  | 3186.9  |
| 12.5° | 4596.6 | 4629.5 | 4648.8 | 4691.9 | 4688.5 | 4632.9 | 4469.4  | 4134.6  | 3635.3  | 3504.7  |
| 15°   | 4662.4 | 4697.6 | 4771.3 | 4871.2 | 4959.7 | 4988.1 | 4873.5  | 4537.5  | 4006.4  | 3839.5  |
| 17.5° | 4624.9 | 4679.4 | 4767.9 | 4925.7 | 5119.8 | 5248.0 | 5235.5  | 4926.8  | 4343.5  | 4152.8  |
| 20°   | 4707.8 | 4760.0 | 4829.2 | 4962.0 | 5187.9 | 5420.5 | 5513.6  | 5299.1  | 4678.3  | 4478.5  |
| 22.5° | 5166.3 | 5157.2 | 5164.0 | 5185.6 | 5320.7 | 5551.1 | 5742.9  | 5637.3  | 5009.7  | 4805.4  |
| 25°   | 5892.7 | 5851.8 | 5782.6 | 5665.7 | 5631.6 | 5742.9 | 5942.6  | 5936.9  | 5359.2  | 5140.2  |
| 27.5° | 6725.7 | 6718.9 | 6556.6 | 6275.2 | 6116.3 | 6073.1 | 6168.5  | 6228.6  | 5705.4  | 5471.6  |
| 30°   | 7523.6 | 7541.8 | 7322.7 | 7009.5 | 6717.8 | 6548.7 | 6462.4  | 6505.5  | 6057.2  | 5829.1  |
| 32.5° | 8218.2 | 8237.5 | 7999.1 | 7632.6 | 7271.6 | 7067.3 | 6885.8  | 6779.1  | 6440.9  | 6192.3  |
| 35°   | 8805.0 | 8824.3 | 8550.7 | 8145.6 | 7760.8 | 7575.8 | 7370.4  | 7078.7  | 6826.7  | 6595.2  |
| 37.5° | 9329.3 | 9323.6 | 8957.0 | 8548.5 | 8170.5 | 8024.1 | 7916.3  | 7447.6  | 7224.0  | 7000.4  |
| 40°   | 9639.2 | 9663.0 | 9349.7 | 8899.2 | 8532.6 | 8425.9 | 8419.1  | 7904.9  | 7682.5  | 7465.7  |
| 42.5° | 9729.9 | 9771.9 | 9545.0 | 9175.0 | 8842.4 | 8726.6 | 8904.8  | 8399.8  | 8215.9  | 8004.8  |
| 45°   | 9566.5 | 9607.4 | 9504.1 | 9247.6 | 9053.5 | 8978.6 | 9322.5  | 8912.8  | 8785.7  | 8576.8  |
| 47.5° | 9089.8 | 9140.9 | 9165.9 | 9111.4 | 9109.1 | 9185.2 | 9697.0  | 9453.0  | 9462.1  | 9248.7  |
| 50°   | 8167.1 | 8253.4 | 8482.6 | 8675.6 | 8974.1 | 9348.6 | 10061.4 | 10038.7 | 10224.8 | 10040.9 |
| 52.5° | 6489.7 | 6612.2 | 7402.2 | 7929.9 | 8600.7 | 9318.0 | 10462.0 | 10978.4 | 11562.9 | 11293.9 |
| 55°   | 5215.1 | 5215.1 | 5857.5 | 6844.9 | 7872.0 | 9115.9 | 10636.8 | 11589.0 | 12474.3 | 12410.7 |
| 57.5° | 4251.5 | 4302.6 | 4712.3 | 5585.1 | 6817.7 | 8634.7 | 10744.6 | 11972.6 | 13208.6 | 13162.0 |
| 60°   | 2624.0 | 2734.1 | 3508.1 | 4369.6 | 5618.0 | 7777.8 | 10676.5 | 12360.8 | 14099.5 | 14137.0 |
| 62.5° | 1477.7 | 1518.6 | 1863.6 | 3143.8 | 4368.4 | 6625.9 | 10155.6 | 12577.5 | 15239.0 | 15397.9 |
| 65°   | 1020.3 | 1040.8 | 1173.5 | 1956.7 | 3028.1 | 5275.3 | 9137.5  | 12442.5 | 16380.8 | 16702.0 |
| 67.5° | 741.1  | 751.3  | 834.2  | 1195.1 | 1796.6 | 3824.8 | 7541.8  | 11761.5 | 16985.7 | 17522.5 |
| 70°   | 569.7  | 576.6  | 636.7  | 785.4  | 1061.2 | 2360.7 | 5477.3  | 10407.5 | 16547.6 | 17188.9 |
| 72.5° | 463.1  | 469.9  | 516.4  | 581.1  | 703.7  | 1396.0 | 3319.7  | 8452.0  | 14613.6 | 15306.0 |
| 75°   | 390.4  | 399.5  | 441.5  | 483.5  | 551.6  | 896.6  | 1557.2  | 5885.9  | 10989.7 | 11443.7 |
| 77.5° | 216.8  | 199.8  | 358.6  | 400.6  | 465.3  | 567.5  | 728.6   | 3463.9  | 6154.8  | 6280.8  |
| 80°   | 135.1  | 139.6  | 284.9  | 322.3  | 357.5  | 286.0  | 333.7   | 1333.6  | 2133.7  | 2027.0  |
| 82.5° | 7.9    | 18.2   | 219.0  | 232.7  | 245.1  | 122.6  | 126.0   | 452.8   | 514.1   | 472.1   |
| 85°   | 0.0    | 0.0    | 99.9   | 80.6   | 85.1   | 35.2   | 36.3    | 105.6   | 69.2    | 74.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 2.3    | 0.0    | 3.4    | 6.8     | 9.1     | 3.4     | 4.5     |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P949715

CATALOG NUMBER: GLAN-SB4B-850-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2107.6  | 0°    | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 | 2107.6 |
| 2215.4  | 2.5°  | 2136.0 | 2056.5 | 1895.4 | 1737.6 | 1609.4 | 1490.2 | 1405.1 | 1324.5 | 1283.6 | 1281.4 |
| 2358.4  | 5°    | 2200.7 | 2033.8 | 1711.5 | 1426.6 | 1197.4 | 1013.5 | 894.3  | 809.2  | 766.1  | 751.3  |
| 2534.3  | 7.5°  | 2291.5 | 2040.6 | 1550.3 | 1154.2 | 884.1  | 726.4  | 658.3  | 631.0  | 622.0  | 611.7  |
| 2733.0  | 10°   | 2406.1 | 2056.5 | 1406.2 | 929.5  | 696.9  | 617.4  | 590.2  | 578.8  | 572.0  | 565.2  |
| 2956.6  | 12.5° | 2534.3 | 2071.3 | 1263.2 | 771.8  | 612.9  | 572.0  | 552.7  | 539.1  | 530.0  | 522.1  |
| 3185.8  | 15°   | 2659.2 | 2080.4 | 1114.5 | 661.7  | 569.7  | 536.8  | 516.4  | 501.6  | 489.2  | 480.1  |
| 3410.5  | 17.5° | 2782.9 | 2092.9 | 974.9  | 595.9  | 534.6  | 501.6  | 481.2  | 463.1  | 452.8  | 442.6  |
| 3646.6  | 20°   | 2920.2 | 2090.6 | 843.3  | 549.3  | 499.4  | 466.5  | 444.9  | 427.9  | 417.7  | 406.3  |
| 3896.3  | 22.5° | 3047.3 | 2079.2 | 727.5  | 509.6  | 463.1  | 431.3  | 407.4  | 390.4  | 380.2  | 371.1  |
| 4151.7  | 25°   | 3193.8 | 2070.2 | 631.0  | 473.3  | 429.0  | 397.2  | 371.1  | 355.2  | 343.9  | 335.9  |
| 4408.2  | 27.5° | 3334.5 | 2056.5 | 560.7  | 440.4  | 396.1  | 365.5  | 340.5  | 322.3  | 312.1  | 306.4  |
| 4672.6  | 30°   | 3473.0 | 2053.1 | 534.6  | 408.6  | 366.6  | 335.9  | 311.0  | 294.0  | 286.0  | 283.7  |
| 4963.1  | 32.5° | 3639.8 | 2062.2 | 545.9  | 397.2  | 339.4  | 308.7  | 284.9  | 272.4  | 264.4  | 264.4  |
| 5286.6  | 35°   | 3818.0 | 2059.9 | 562.9  | 407.4  | 321.2  | 281.5  | 263.3  | 255.4  | 247.4  | 247.4  |
| 5645.3  | 37.5° | 4041.6 | 2063.3 | 576.6  | 424.5  | 314.4  | 258.8  | 248.6  | 238.3  | 233.8  | 233.8  |
| 6037.9  | 40°   | 4375.2 | 2175.7 | 569.7  | 439.2  | 312.1  | 242.9  | 222.5  | 219.0  | 215.6  | 215.6  |
| 6481.7  | 42.5° | 4783.8 | 2419.7 | 578.8  | 440.4  | 311.0  | 231.5  | 204.3  | 211.1  | 203.2  | 202.0  |
| 6982.2  | 45°   | 5231.0 | 2686.4 | 636.7  | 416.5  | 309.8  | 225.9  | 195.2  | 203.2  | 190.7  | 190.7  |
| 7562.2  | 47.5° | 5674.8 | 2950.9 | 695.7  | 382.5  | 306.4  | 224.7  | 187.3  | 182.7  | 179.3  | 180.5  |
| 8318.1  | 50°   | 6286.5 | 3166.5 | 718.4  | 335.9  | 298.5  | 222.5  | 172.5  | 173.6  | 171.4  | 173.6  |
| 9383.8  | 52.5° | 6952.7 | 3211.9 | 691.2  | 283.7  | 275.8  | 215.6  | 162.3  | 166.8  | 165.7  | 168.0  |
| 10134.0 | 55°   | 7368.1 | 3163.1 | 570.9  | 236.1  | 240.6  | 188.4  | 152.1  | 161.2  | 161.2  | 161.2  |
| 10867.2 | 57.5° | 7797.1 | 2955.4 | 405.2  | 191.8  | 199.8  | 154.4  | 143.0  | 155.5  | 154.4  | 153.2  |
| 11750.2 | 60°   | 8105.8 | 2619.5 | 266.7  | 157.8  | 158.9  | 127.1  | 132.8  | 146.4  | 145.3  | 139.6  |
| 12660.4 | 62.5° | 8336.2 | 2248.3 | 171.4  | 133.9  | 121.4  | 114.6  | 121.4  | 132.8  | 128.2  | 115.8  |
| 13432.2 | 65°   | 8310.1 | 1734.2 | 131.7  | 114.6  | 99.9   | 99.9   | 105.6  | 115.8  | 102.1  | 81.7   |
| 13579.7 | 67.5° | 7825.5 | 1173.5 | 109.0  | 96.5   | 84.0   | 82.9   | 87.4   | 96.5   | 87.4   | 69.2   |
| 12823.8 | 70°   | 6959.5 | 767.2  | 87.4   | 74.9   | 67.0   | 61.3   | 70.4   | 82.9   | 73.8   | 55.6   |
| 10917.1 | 72.5° | 5648.7 | 467.6  | 65.8   | 54.5   | 48.8   | 39.7   | 55.6   | 68.1   | 59.0   | 40.9   |
| 7591.7  | 75°   | 3654.5 | 238.3  | 45.4   | 35.2   | 26.1   | 23.8   | 40.9   | 51.1   | 40.9   | 25.0   |
| 3368.5  | 77.5° | 1398.3 | 99.9   | 25.0   | 15.9   | 13.6   | 11.3   | 22.7   | 30.6   | 17.0   | 5.7    |
| 652.6   | 80°   | 269.0  | 42.0   | 12.5   | 7.9    | 6.8    | 4.5    | 3.4    | 2.3    | 0.0    | 0.0    |
| 115.8   | 82.5° | 46.5   | 13.6   | 4.5    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.7    | 85°   | 15.9   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 7.9     | 87.5° | 5.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°   |
|--------|
| 2107.6 |
| 1279.1 |
| 749.1  |
| 609.5  |
| 562.9  |
| 519.8  |
| 478.9  |
| 441.5  |
| 405.2  |
| 370.0  |
| 334.8  |
| 306.4  |
| 282.6  |
| 264.4  |
| 247.4  |
| 233.8  |
| 215.6  |
| 200.9  |
| 190.7  |
| 180.5  |
| 173.6  |
| 168.0  |
| 161.2  |
| 153.2  |
| 139.6  |
| 113.5  |
| 79.4   |
| 67.0   |
| 53.3   |
| 38.6   |
| 21.6   |
| 4.5    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |