

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: P941718

Luminaire Tested: **GLAN-SB5B-850-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5B-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20600 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 182.7  
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



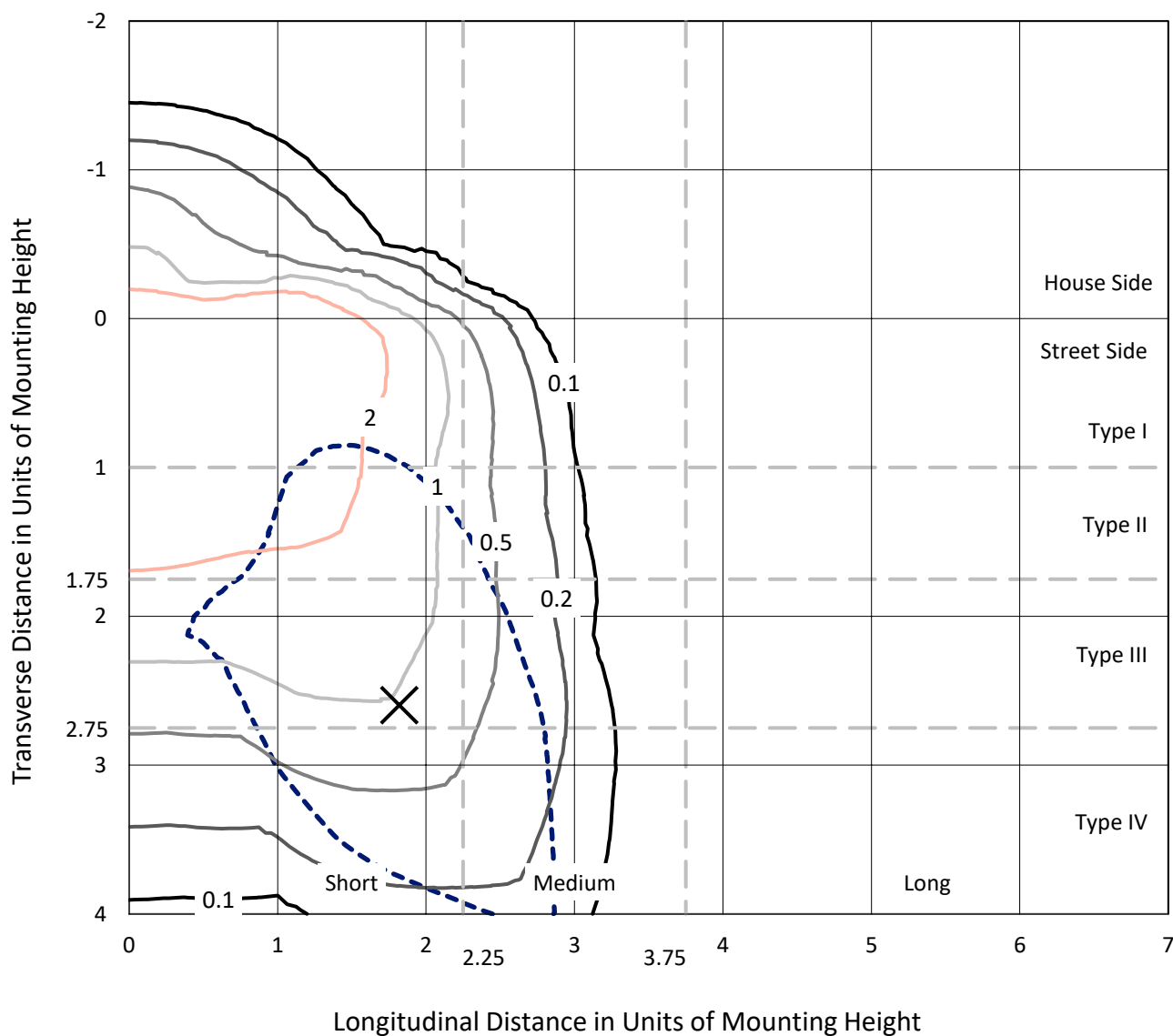
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

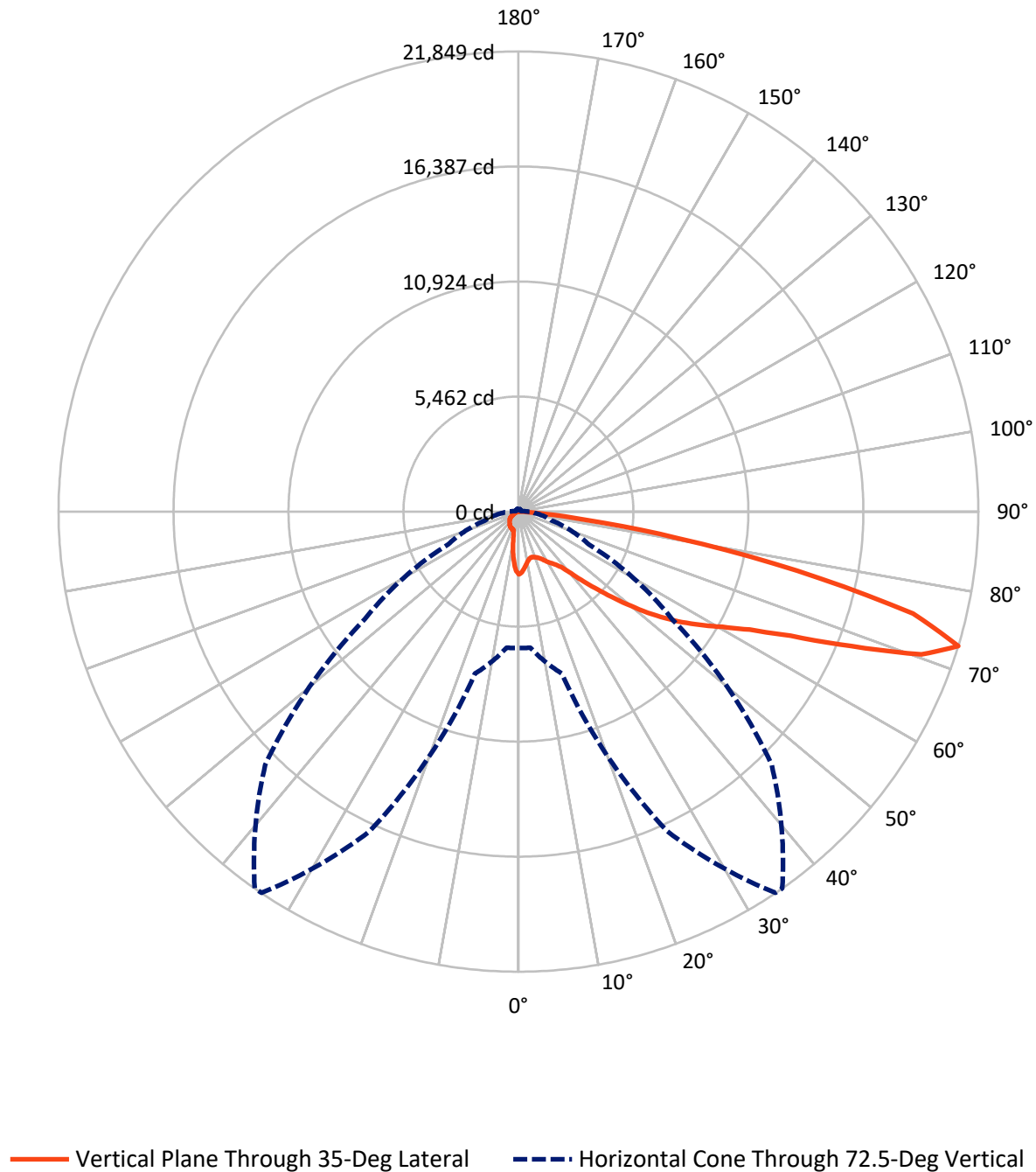


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2318.4   | 0.0    | 2318.4  |
|                    | % Fixture | 11.3     | 0.0    | 11.3    |
| <b>Street Side</b> | Lumens    | 18281.6  | 0.0    | 18281.6 |
|                    | % Fixture | 88.7     | 0.0    | 88.7    |
| <b>Total</b>       | Lumens    | 20600.0  | 0.0    | 20600.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 245.3   | 1.2       |
| 10°-20°   | 573.9   | 2.8       |
| 20°-30°   | 932.4   | 4.5       |
| 30°-40°   | 1555.6  | 7.6       |
| 40°-50°   | 2943.3  | 14.3      |
| 50°-60°   | 4676.9  | 22.7      |
| 60°-70°   | 5785.6  | 28.1      |
| 70°-80°   | 3596.4  | 17.5      |
| 80°-90°   | 290.6   | 1.4       |
| 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°    | 20600.0 | 100.0     |
| 0°-180°   | 20600.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P941718

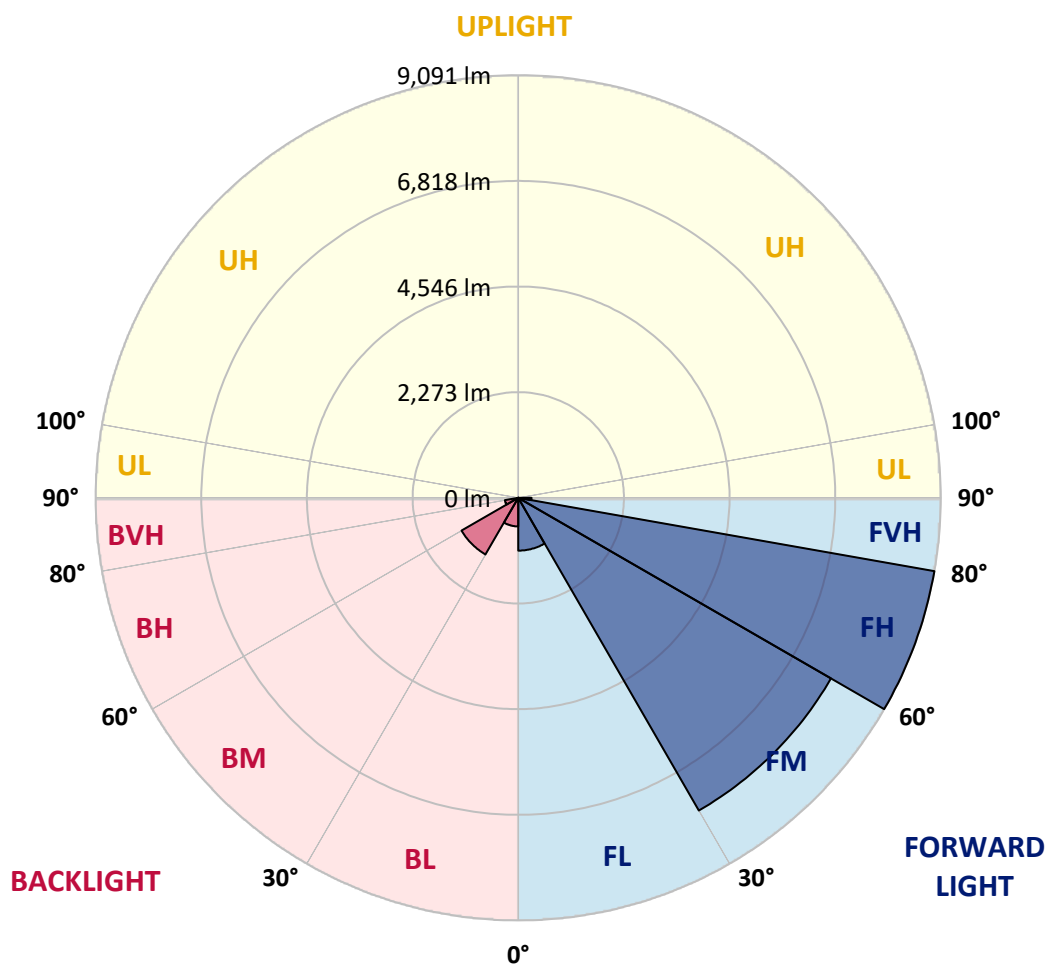
CATALOG NUMBER: GLAN-SB5B-850-U-T4FT-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1135.6 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 7768.3 | 37.7      |                         |      |          |
| FH   | (60°-80°)   | 9091.0 | 44.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 286.7  | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 616.1  | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1407.5 | 6.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 290.9  | 1.4       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 4.0    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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CATALOG NUMBER: GLAN-SB5B-850-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2985.6  | 2985.6  | 2985.6  | 2985.6  | 2985.6  | 2985.6  | 2985.6  | 2985.6  | 2985.6  | 2985.6  |
| 2.5°  | 2852.8  | 2877.0  | 2881.5  | 2889.0  | 2889.0  | 2898.1  | 2913.2  | 2934.3  | 2969.0  | 2987.1  |
| 5°    | 2629.4  | 2647.5  | 2670.2  | 2688.3  | 2723.0  | 2727.5  | 2786.4  | 2843.7  | 2923.7  | 2984.1  |
| 7.5°  | 2404.5  | 2425.6  | 2455.8  | 2499.6  | 2544.9  | 2558.5  | 2647.5  | 2744.1  | 2870.9  | 2984.1  |
| 10°   | 2246.0  | 2247.5  | 2274.7  | 2318.5  | 2390.9  | 2407.5  | 2516.2  | 2653.6  | 2812.0  | 2966.0  |
| 12.5° | 2157.0  | 2167.5  | 2179.6  | 2212.8  | 2282.2  | 2292.8  | 2409.0  | 2570.5  | 2753.2  | 2955.4  |
| 15°   | 2157.0  | 2164.5  | 2172.1  | 2188.7  | 2244.5  | 2253.6  | 2356.2  | 2517.7  | 2723.0  | 2960.0  |
| 17.5° | 2179.6  | 2191.7  | 2185.6  | 2205.3  | 2264.1  | 2270.2  | 2360.7  | 2502.6  | 2721.5  | 2988.6  |
| 20°   | 2233.9  | 2243.0  | 2230.9  | 2243.0  | 2301.9  | 2313.9  | 2407.5  | 2531.3  | 2747.1  | 3038.5  |
| 22.5° | 2320.0  | 2324.5  | 2295.8  | 2304.9  | 2365.3  | 2380.4  | 2489.0  | 2612.8  | 2809.0  | 3118.5  |
| 25°   | 2428.7  | 2437.7  | 2393.9  | 2404.5  | 2461.9  | 2480.0  | 2605.3  | 2735.1  | 2907.1  | 3228.6  |
| 27.5° | 2553.9  | 2558.5  | 2520.7  | 2519.2  | 2593.2  | 2618.8  | 2745.6  | 2886.0  | 3038.5  | 3367.5  |
| 30°   | 2697.3  | 2710.9  | 2674.7  | 2668.7  | 2762.2  | 2783.4  | 2908.7  | 3071.7  | 3231.7  | 3575.8  |
| 32.5° | 2810.5  | 2821.1  | 2800.0  | 2815.1  | 2910.2  | 2926.8  | 3106.4  | 3334.3  | 3535.1  | 3871.7  |
| 35°   | 2973.6  | 2979.6  | 2931.3  | 2958.5  | 3067.1  | 3109.4  | 3376.6  | 3702.6  | 3916.9  | 4243.0  |
| 37.5° | 3563.7  | 3563.7  | 3358.5  | 3224.1  | 3328.3  | 3366.0  | 3746.4  | 4166.0  | 4387.9  | 4741.1  |
| 40°   | 4380.3  | 4366.7  | 4066.4  | 3791.7  | 3778.1  | 3852.0  | 4273.2  | 4750.1  | 4996.2  | 5338.8  |
| 42.5° | 5251.3  | 5230.1  | 4821.1  | 4549.4  | 4504.1  | 4529.8  | 4881.5  | 5470.1  | 5720.7  | 6067.9  |
| 45°   | 6024.1  | 6018.1  | 5643.7  | 5278.4  | 5196.9  | 5278.4  | 5640.7  | 6312.4  | 6492.0  | 6857.3  |
| 47.5° | 6671.6  | 6671.6  | 6398.4  | 6159.9  | 6117.7  | 6166.0  | 6668.6  | 7246.7  | 7230.1  | 7698.0  |
| 50°   | 7417.3  | 7411.2  | 7151.6  | 7049.0  | 7092.8  | 7160.7  | 7852.0  | 8230.9  | 7993.9  | 8523.7  |
| 52.5° | 7939.5  | 7975.8  | 7886.7  | 7870.1  | 8093.5  | 8211.2  | 9053.5  | 9193.9  | 8677.6  | 9307.1  |
| 55°   | 8353.1  | 8395.4  | 8498.0  | 8614.3  | 9044.4  | 9198.4  | 10217.3 | 10107.1 | 9249.7  | 9986.3  |
| 57.5° | 8938.8  | 8878.4  | 9036.9  | 9266.3  | 9962.2  | 10147.8 | 11344.8 | 10968.9 | 9710.1  | 10537.3 |
| 60°   | 9649.7  | 9658.8  | 9685.9  | 9975.7  | 10878.4 | 11116.9 | 12455.7 | 11784.0 | 10005.9 | 10875.4 |
| 62.5° | 10504.0 | 10517.6 | 10573.5 | 11018.8 | 12108.6 | 12333.5 | 13639.1 | 12451.2 | 10141.8 | 10780.3 |
| 65°   | 10445.2 | 10502.5 | 11125.9 | 12648.9 | 13978.7 | 14200.6 | 15020.2 | 12919.1 | 9936.5  | 9910.8  |
| 67.5° | 9515.4  | 9609.0  | 10652.0 | 14596.1 | 16798.3 | 17045.9 | 16689.6 | 13011.2 | 9050.5  | 7707.1  |
| 70°   | 8295.8  | 8329.0  | 9583.3  | 16347.0 | 20063.2 | 20313.8 | 18184.0 | 11998.4 | 6867.9  | 4298.8  |
| 72.5° | 6478.4  | 6486.0  | 7957.7  | 16753.0 | 21835.3 | 21848.8 | 17011.2 | 8907.1  | 3693.5  | 1651.3  |
| 75°   | 4627.9  | 4582.6  | 5329.8  | 13586.3 | 19210.4 | 19364.3 | 12753.1 | 4178.1  | 1411.3  | 780.4   |
| 77.5° | 2481.5  | 2531.3  | 3015.8  | 8057.3  | 13270.8 | 13533.5 | 6958.4  | 1204.5  | 718.5   | 531.3   |
| 80°   | 766.8   | 809.0   | 1236.2  | 3689.0  | 7516.9  | 7675.4  | 2579.6  | 535.8   | 501.1   | 378.9   |
| 82.5° | 241.5   | 250.6   | 576.6   | 1550.2  | 3120.0  | 3192.4  | 747.2   | 303.4   | 342.6   | 250.6   |
| 85°   | 69.4    | 70.9    | 256.6   | 578.1   | 771.3   | 786.4   | 209.8   | 117.7   | 196.2   | 155.5   |
| 87.5° | 7.5     | 24.2    | 96.6    | 96.6    | 67.9    | 66.4    | 22.6    | 25.7    | 55.8    | 19.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P941718

CATALOG NUMBER: GLAN-SB5B-850-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2985.6  | 0°    | 2985.6 | 2985.6 | 2985.6 | 2985.6 | 2985.6 | 2985.6 | 2985.6 | 2985.6 | 2985.6 | 2985.6 |
| 2999.2  | 2.5°  | 2991.7 | 2993.2 | 2973.6 | 2940.3 | 2904.1 | 2873.9 | 2836.2 | 2806.0 | 2784.9 | 2778.8 |
| 3026.4  | 5°    | 3012.8 | 3002.2 | 2946.4 | 2845.3 | 2724.5 | 2620.4 | 2504.1 | 2412.1 | 2351.7 | 2326.0 |
| 3055.1  | 7.5°  | 3044.5 | 3014.3 | 2892.0 | 2692.8 | 2461.9 | 2256.6 | 2048.3 | 1886.8 | 1784.1 | 1732.8 |
| 3082.2  | 10°   | 3071.7 | 3011.3 | 2801.5 | 2472.4 | 2119.2 | 1808.3 | 1527.5 | 1332.8 | 1224.1 | 1172.8 |
| 3113.9  | 12.5° | 3097.3 | 3009.8 | 2683.7 | 2211.3 | 1732.8 | 1352.4 | 1091.3 | 994.7  | 964.5  | 954.0  |
| 3165.3  | 15°   | 3145.6 | 3014.3 | 2535.8 | 1912.4 | 1347.9 | 1021.9 | 926.8  | 925.3  | 931.3  | 928.3  |
| 3243.7  | 17.5° | 3212.0 | 3018.8 | 2368.3 | 1595.5 | 1040.0 | 901.1  | 896.6  | 910.2  | 919.2  | 914.7  |
| 3341.9  | 20°   | 3298.1 | 3037.0 | 2190.2 | 1281.5 | 893.6  | 870.9  | 881.5  | 893.6  | 901.1  | 893.6  |
| 3473.2  | 22.5° | 3418.8 | 3068.6 | 1995.5 | 1029.4 | 846.8  | 852.8  | 861.9  | 875.5  | 883.0  | 872.4  |
| 3640.7  | 25°   | 3566.8 | 3118.5 | 1803.8 | 895.1  | 824.1  | 831.7  | 845.3  | 860.4  | 869.4  | 858.9  |
| 3852.0  | 27.5° | 3758.5 | 3198.5 | 1627.2 | 864.9  | 801.5  | 806.0  | 825.7  | 848.3  | 860.4  | 846.8  |
| 4152.4  | 30°   | 4036.2 | 3329.8 | 1474.7 | 878.5  | 787.9  | 777.4  | 804.5  | 836.2  | 849.8  | 837.7  |
| 4561.5  | 32.5° | 4404.5 | 3515.4 | 1381.1 | 899.6  | 781.9  | 744.1  | 769.8  | 810.6  | 833.2  | 825.7  |
| 5095.8  | 35°   | 4887.5 | 3797.7 | 1344.9 | 923.8  | 777.4  | 709.4  | 727.5  | 771.3  | 810.6  | 818.1  |
| 5769.0  | 37.5° | 5473.2 | 4190.1 | 1355.5 | 934.3  | 763.8  | 680.7  | 689.8  | 727.5  | 778.9  | 803.0  |
| 6526.7  | 40°   | 6138.8 | 4647.5 | 1415.8 | 923.8  | 748.7  | 656.6  | 658.1  | 686.8  | 732.1  | 768.3  |
| 7341.8  | 42.5° | 6825.6 | 5181.8 | 1527.5 | 884.5  | 735.1  | 635.5  | 630.9  | 650.6  | 680.7  | 706.4  |
| 8155.4  | 45°   | 7479.2 | 5731.3 | 1637.7 | 830.2  | 718.5  | 614.3  | 603.8  | 611.3  | 617.4  | 627.9  |
| 8947.8  | 47.5° | 8049.7 | 6117.7 | 1606.0 | 780.4  | 695.8  | 590.2  | 572.1  | 569.1  | 550.9  | 549.4  |
| 9655.8  | 50°   | 8443.7 | 6202.2 | 1426.4 | 730.6  | 662.6  | 563.0  | 534.3  | 516.2  | 484.5  | 469.4  |
| 10185.6 | 52.5° | 8569.0 | 5868.6 | 1165.3 | 680.7  | 608.3  | 526.8  | 486.0  | 457.4  | 418.1  | 404.5  |
| 10490.5 | 55°   | 8402.9 | 5215.0 | 931.3  | 620.4  | 532.8  | 478.5  | 433.2  | 395.5  | 363.8  | 347.2  |
| 10523.7 | 57.5° | 7996.9 | 4383.4 | 736.6  | 549.4  | 452.8  | 424.1  | 378.9  | 341.1  | 314.0  | 297.4  |
| 10155.4 | 60°   | 7323.7 | 3480.7 | 582.6  | 464.9  | 386.4  | 365.3  | 318.5  | 294.3  | 270.2  | 250.6  |
| 9204.4  | 62.5° | 6301.8 | 2484.5 | 457.4  | 368.3  | 323.0  | 298.9  | 271.7  | 253.6  | 224.9  | 197.7  |
| 7494.3  | 65°   | 4917.7 | 1520.0 | 353.2  | 270.2  | 259.6  | 247.5  | 230.9  | 214.3  | 179.6  | 152.5  |
| 4889.0  | 67.5° | 3101.9 | 720.0  | 252.1  | 203.8  | 205.3  | 199.2  | 191.7  | 178.1  | 152.5  | 128.3  |
| 2190.2  | 70°   | 1366.0 | 348.7  | 166.0  | 155.5  | 152.5  | 152.5  | 158.5  | 154.0  | 129.8  | 107.2  |
| 760.7   | 72.5° | 464.9  | 187.2  | 123.8  | 117.7  | 110.2  | 108.7  | 132.8  | 128.3  | 104.1  | 83.0   |
| 378.9   | 75°   | 243.0  | 125.3  | 90.6   | 84.5   | 66.4   | 80.0   | 105.7  | 99.6   | 74.0   | 54.3   |
| 250.6   | 77.5° | 158.5  | 89.1   | 61.9   | 54.3   | 37.7   | 52.8   | 78.5   | 69.4   | 43.8   | 27.2   |
| 164.5   | 80°   | 99.6   | 58.9   | 36.2   | 25.7   | 18.1   | 28.7   | 42.3   | 30.2   | 16.6   | 6.0    |
| 96.6    | 82.5° | 52.8   | 30.2   | 13.6   | 9.1    | 7.5    | 9.1    | 10.6   | 7.5    | 3.0    | 0.0    |
| 49.8    | 85°   | 21.1   | 10.6   | 4.5    | 3.0    | 1.5    | 0.0    | 3.0    | 1.5    | 0.0    | 0.0    |
| 9.1     | 87.5° | 7.5    | 1.5    | 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    |

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| 180°   |
|--------|
| 2985.6 |
| 2789.4 |
| 2335.1 |
| 1740.4 |
| 1174.3 |
| 950.9  |
| 926.8  |
| 913.2  |
| 892.1  |
| 870.9  |
| 857.3  |
| 846.8  |
| 836.2  |
| 825.7  |
| 818.1  |
| 809.0  |
| 780.4  |
| 717.0  |
| 634.0  |
| 547.9  |
| 470.9  |
| 403.0  |
| 347.2  |
| 294.3  |
| 246.0  |
| 193.2  |
| 147.9  |
| 125.3  |
| 102.6  |
| 78.5   |
| 49.8   |
| 24.2   |
| 4.5    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |