

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: P943587

Luminaire Tested: **GLAN-SB8A-850-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8A-850-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34719 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 227.1  
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



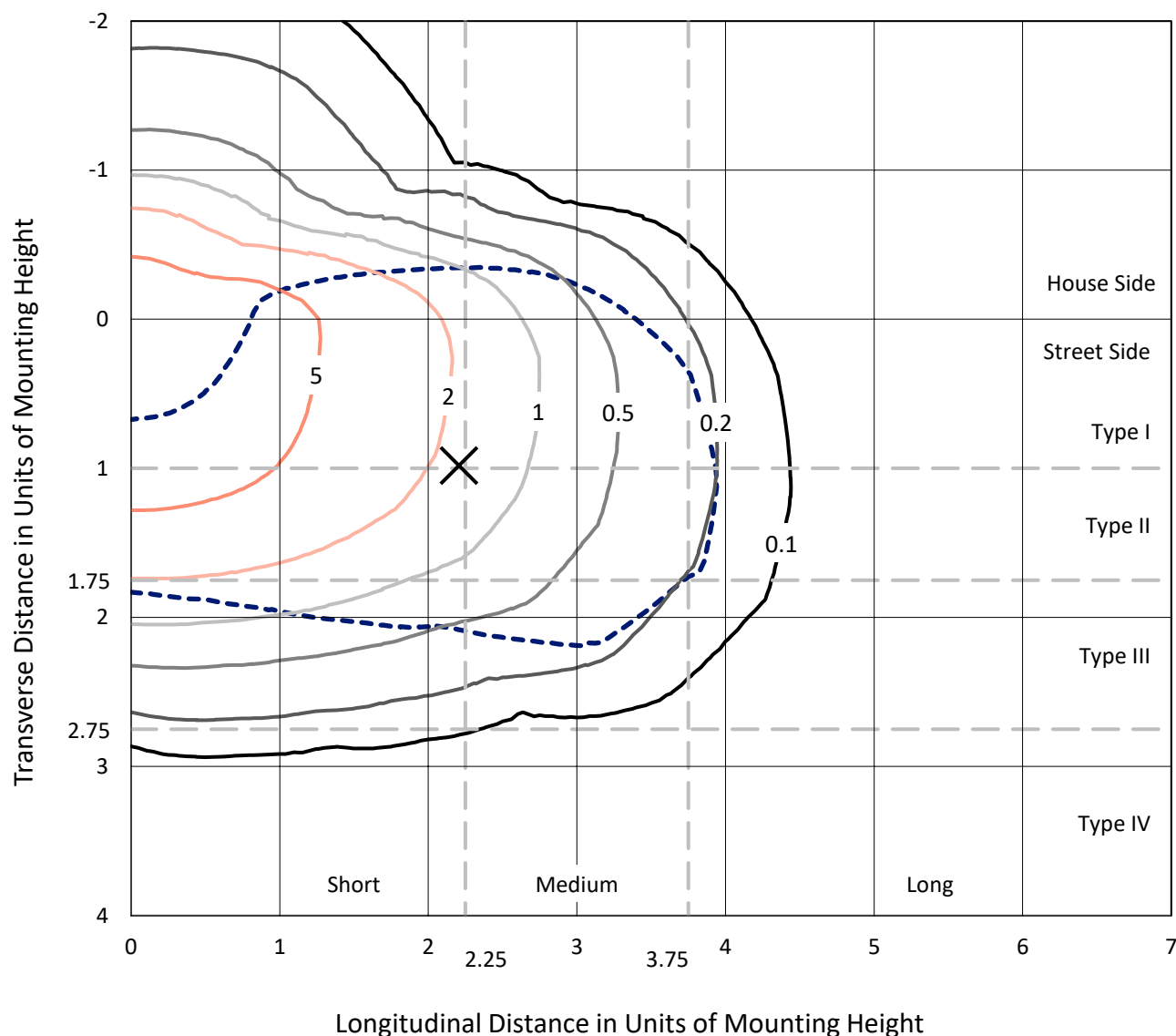
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CATALOG NUMBER: GLAN-SB8A-850-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

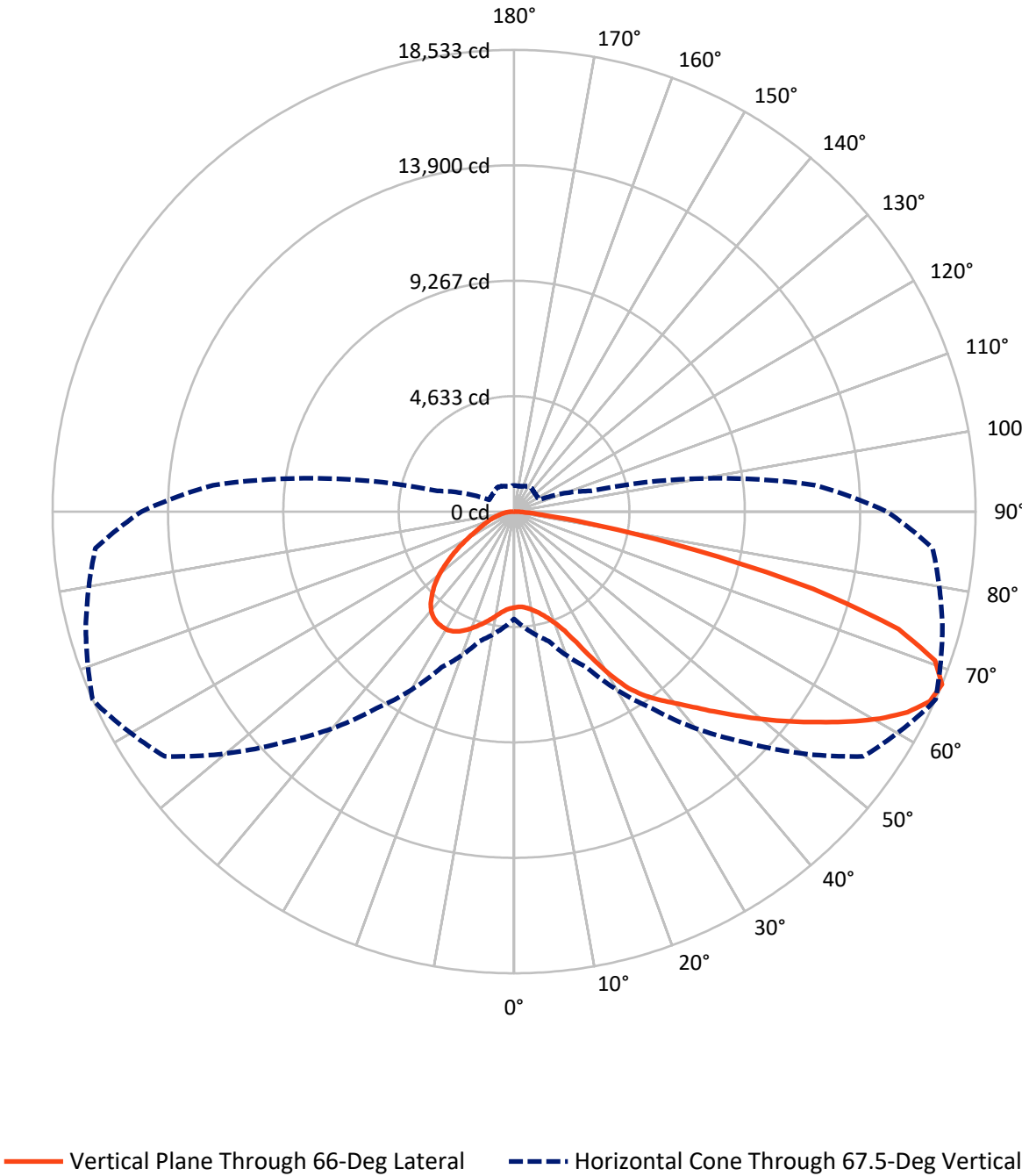


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type III - 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    | 8632.8   | 0.0    | 8632.8  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 26086.2  | 0.0    | 26086.2 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 34719.0  | 0.0    | 34719.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 381.8   | 1.1       |
| 10°-20°   | 1261.4  | 3.6       |
| 20°-30°   | 2431.3  | 7.0       |
| 30°-40°   | 4262.9  | 12.3      |
| 40°-50°   | 6337.5  | 18.3      |
| 50°-60°   | 8033.4  | 23.1      |
| 60°-70°   | 7860.5  | 22.6      |
| 70°-80°   | 3749.5  | 10.8      |
| 80°-90°   | 400.7   | 1.2       |
| 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°    | 34719.0 | 100.0     |
| 0°-180°   | 34719.0 | 100.0     |

**Coefficient of Utilization**



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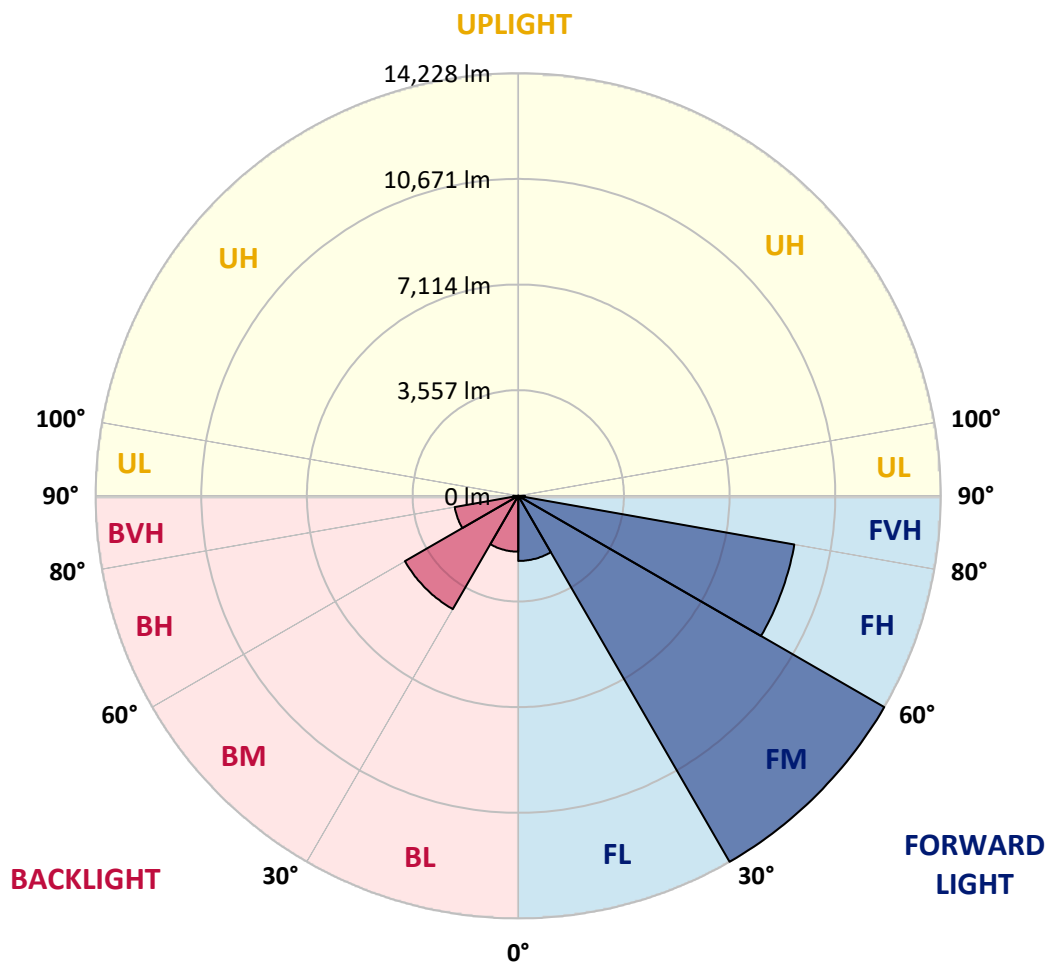
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2193.9  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 14227.6 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 9437.6  | 27.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 227.2   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1880.5  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4406.3  | 12.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2172.5  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 173.5   | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3850.8  | 3850.8  | 3850.8  | 3850.8  | 3850.8  | 3850.8  | 3850.8  | 3850.8  | 3850.8  | 3850.8  |
| 2.5°  | 3810.7  | 3832.6  | 3827.1  | 3818.0  | 3816.1  | 3819.8  | 3825.3  | 3830.7  | 3828.9  | 3838.0  |
| 5°    | 3799.7  | 3821.6  | 3819.8  | 3819.8  | 3827.1  | 3841.7  | 3850.8  | 3859.9  | 3850.8  | 3861.7  |
| 7.5°  | 3807.0  | 3823.4  | 3830.7  | 3838.0  | 3856.3  | 3883.6  | 3905.5  | 3925.6  | 3914.6  | 3927.4  |
| 10°   | 3900.0  | 3912.8  | 3920.1  | 3920.1  | 3932.9  | 3963.9  | 3985.8  | 4022.3  | 4013.1  | 4033.2  |
| 12.5° | 4069.7  | 4082.5  | 4082.5  | 4075.2  | 4084.3  | 4104.4  | 4111.7  | 4151.8  | 4135.4  | 4168.2  |
| 15°   | 4277.6  | 4303.2  | 4283.1  | 4270.4  | 4274.0  | 4294.1  | 4292.2  | 4323.3  | 4306.8  | 4334.2  |
| 17.5° | 4507.5  | 4540.3  | 4507.5  | 4505.7  | 4498.4  | 4520.3  | 4522.1  | 4549.4  | 4520.3  | 4540.3  |
| 20°   | 4779.3  | 4824.9  | 4797.5  | 4806.7  | 4790.2  | 4799.4  | 4808.5  | 4848.6  | 4803.0  | 4817.6  |
| 22.5° | 5162.4  | 5217.1  | 5187.9  | 5222.6  | 5211.6  | 5204.3  | 5202.5  | 5273.6  | 5202.5  | 5208.0  |
| 25°   | 5720.6  | 5786.2  | 5735.2  | 5782.6  | 5782.6  | 5806.3  | 5833.7  | 5924.9  | 5806.3  | 5771.6  |
| 27.5° | 6545.1  | 6610.7  | 6510.4  | 6539.6  | 6530.5  | 6588.9  | 6559.7  | 6785.9  | 6658.2  | 6601.6  |
| 30°   | 7537.4  | 7654.2  | 7464.5  | 7457.2  | 7448.0  | 7541.1  | 7583.0  | 7732.6  | 7603.1  | 7546.5  |
| 32.5° | 8610.0  | 8732.2  | 8506.0  | 8440.4  | 8405.7  | 8462.3  | 8427.6  | 8548.0  | 8458.6  | 8371.1  |
| 35°   | 9744.6  | 9865.0  | 9649.8  | 9522.1  | 9383.5  | 9264.9  | 9140.9  | 9171.9  | 9088.0  | 8954.8  |
| 37.5° | 10817.3 | 11038.0 | 10810.0 | 10673.1 | 10417.8 | 10186.1 | 9839.5  | 9695.4  | 9617.0  | 9494.7  |
| 40°   | 11909.9 | 12035.8 | 11862.5 | 11745.7 | 11468.5 | 11105.5 | 10550.9 | 10246.3 | 10140.5 | 10021.9 |
| 42.5° | 12714.4 | 12834.8 | 12741.7 | 12661.5 | 12444.4 | 12023.0 | 11306.1 | 10924.9 | 10771.6 | 10638.5 |
| 45°   | 13352.8 | 13442.2 | 13383.8 | 13413.0 | 13320.0 | 12911.4 | 12088.7 | 11652.7 | 11494.0 | 11331.7 |
| 47.5° | 13610.0 | 13704.9 | 13797.9 | 13971.2 | 14129.9 | 13828.9 | 12929.6 | 12440.8 | 12272.9 | 12106.9 |
| 50°   | 13580.9 | 13677.5 | 13947.5 | 14316.0 | 14808.5 | 14708.2 | 13816.2 | 13279.9 | 13124.8 | 12935.1 |
| 52.5° | 13347.4 | 13456.8 | 13803.4 | 14416.3 | 15200.7 | 15366.7 | 14719.1 | 14146.3 | 14000.4 | 13774.2 |
| 55°   | 12734.4 | 12800.1 | 13320.0 | 14188.3 | 15293.7 | 15826.4 | 15603.8 | 15069.4 | 14923.4 | 14607.9 |
| 57.5° | 11598.0 | 11692.8 | 12449.9 | 13573.6 | 15060.2 | 16138.3 | 16380.9 | 16039.8 | 15899.4 | 15445.1 |
| 60°   | 10115.0 | 10266.4 | 11132.8 | 12541.1 | 14465.6 | 16136.5 | 17086.9 | 16993.8 | 16877.1 | 16269.7 |
| 62.5° | 8436.7  | 8611.8  | 9445.5  | 11081.8 | 13425.8 | 15678.6 | 17528.3 | 17792.8 | 17732.6 | 17030.3 |
| 65°   | 6479.4  | 6599.8  | 7429.8  | 9193.8  | 11807.8 | 14695.4 | 17579.4 | 18338.3 | 18349.2 | 17608.6 |
| 67.5° | 4314.1  | 4660.7  | 5381.3  | 6899.0  | 9640.7  | 13088.3 | 17130.7 | 18427.6 | 18533.4 | 17807.4 |
| 70°   | 2105.1  | 2561.1  | 3267.1  | 4483.8  | 6899.0  | 10623.9 | 15957.7 | 17694.3 | 17929.6 | 17227.3 |
| 72.5° | 873.8   | 1021.5  | 1406.4  | 2212.7  | 3960.2  | 7168.9  | 13600.9 | 15706.0 | 16142.0 | 15264.5 |
| 75°   | 589.2   | 638.5   | 804.5   | 1134.6  | 1804.1  | 3535.2  | 9808.5  | 11711.1 | 12413.4 | 11528.7 |
| 77.5° | 454.2   | 485.2   | 585.6   | 793.5   | 1072.6  | 1337.1  | 5249.9  | 7057.7  | 7420.7  | 6869.8  |
| 80°   | 357.5   | 381.2   | 437.8   | 578.3   | 760.7   | 715.1   | 1789.5  | 3197.7  | 3407.5  | 2858.5  |
| 82.5° | 310.1   | 319.2   | 313.8   | 392.2   | 505.3   | 417.7   | 587.4   | 1180.2  | 1302.4  | 944.9   |
| 85°   | 224.4   | 249.9   | 260.9   | 242.6   | 268.2   | 211.6   | 240.8   | 417.7   | 459.7   | 410.4   |
| 87.5° | 91.2    | 135.0   | 166.0   | 156.9   | 98.5    | 60.2    | 74.8    | 122.2   | 140.5   | 153.2   |
| 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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CATALOG NUMBER: GLAN-SB8A-850-U-T3

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3850.8  | 0°    | 3850.8  | 3850.8  | 3850.8 | 3850.8 | 3850.8 | 3850.8 | 3850.8 | 3850.8 | 3850.8 | 3850.8 |
| 3852.6  | 2.5°  | 3854.4  | 3867.2  | 3876.3 | 3887.3 | 3894.6 | 3905.5 | 3927.4 | 3940.2 | 3942.0 | 3951.1 |
| 3881.8  | 5°    | 3889.1  | 3907.3  | 3927.4 | 3956.6 | 3989.4 | 4016.8 | 4058.7 | 4087.9 | 4098.9 | 4108.0 |
| 3952.9  | 7.5°  | 3963.9  | 3989.4  | 4025.9 | 4077.0 | 4124.4 | 4160.9 | 4212.0 | 4246.6 | 4281.3 | 4294.1 |
| 4066.0  | 10°   | 4075.2  | 4111.7  | 4164.6 | 4233.9 | 4284.9 | 4332.4 | 4385.3 | 4414.5 | 4449.1 | 4463.7 |
| 4201.0  | 12.5° | 4213.8  | 4252.1  | 4321.4 | 4418.1 | 4465.5 | 4498.4 | 4516.6 | 4509.3 | 4516.6 | 4529.4 |
| 4363.4  | 15°   | 4372.5  | 4414.5  | 4492.9 | 4596.9 | 4629.7 | 4600.5 | 4560.4 | 4523.9 | 4518.4 | 4522.1 |
| 4560.4  | 17.5° | 4560.4  | 4591.4  | 4682.6 | 4770.2 | 4746.5 | 4626.1 | 4538.5 | 4480.1 | 4450.9 | 4441.8 |
| 4812.1  | 20°   | 4823.1  | 4823.1  | 4897.9 | 4952.6 | 4793.9 | 4589.6 | 4452.8 | 4357.9 | 4297.7 | 4272.2 |
| 5155.1  | 22.5° | 5142.3  | 5113.1  | 5160.5 | 5122.2 | 4784.8 | 4487.4 | 4297.7 | 4133.5 | 4042.3 | 4005.8 |
| 5634.8  | 25°   | 5547.3  | 5512.6  | 5499.8 | 5262.7 | 4719.1 | 4325.1 | 4016.8 | 3818.0 | 3737.7 | 3717.6 |
| 6326.2  | 27.5° | 6158.4  | 6070.8  | 5904.8 | 5339.3 | 4598.7 | 4069.7 | 3688.4 | 3504.2 | 3458.6 | 3460.4 |
| 7214.5  | 30°   | 6971.9  | 6796.8  | 6390.0 | 5352.1 | 4401.7 | 3708.5 | 3352.8 | 3221.5 | 3199.6 | 3208.7 |
| 7960.6  | 32.5° | 7725.3  | 7559.3  | 6886.2 | 5293.7 | 4098.9 | 3354.6 | 3051.8 | 2964.3 | 2931.4 | 2942.4 |
| 8529.8  | 35°   | 8316.3  | 8270.7  | 7345.9 | 5211.6 | 3726.8 | 3022.6 | 2781.8 | 2707.0 | 2643.2 | 2628.6 |
| 9066.1  | 37.5° | 8874.5  | 8856.3  | 7690.6 | 5096.7 | 3358.3 | 2787.3 | 2564.8 | 2466.3 | 2373.2 | 2322.2 |
| 9658.9  | 40°   | 9487.4  | 9469.2  | 7916.8 | 4919.8 | 3031.7 | 2583.0 | 2369.6 | 2240.1 | 2125.1 | 2032.1 |
| 10330.2 | 42.5° | 10177.0 | 10069.3 | 8024.5 | 4666.2 | 2754.5 | 2409.7 | 2210.9 | 2035.8 | 1884.4 | 1798.6 |
| 11089.1 | 45°   | 10930.4 | 10687.7 | 8022.6 | 4343.3 | 2521.0 | 2251.0 | 2041.2 | 1793.1 | 1652.7 | 1572.4 |
| 11868.0 | 47.5° | 11729.3 | 11278.8 | 7924.1 | 3985.8 | 2294.8 | 2075.9 | 1778.6 | 1588.8 | 1495.8 | 1446.6 |
| 12714.4 | 50°   | 12553.9 | 11831.5 | 7756.3 | 3575.3 | 2063.1 | 1877.1 | 1614.4 | 1484.9 | 1413.7 | 1368.1 |
| 13553.5 | 52.5° | 13329.1 | 12333.1 | 7553.8 | 3110.2 | 1827.8 | 1683.7 | 1541.4 | 1441.1 | 1366.3 | 1315.2 |
| 14367.1 | 55°   | 14049.7 | 12765.5 | 7267.4 | 2634.1 | 1636.3 | 1554.2 | 1506.8 | 1422.8 | 1337.1 | 1276.9 |
| 15193.4 | 57.5° | 14689.9 | 13046.4 | 6773.1 | 2187.2 | 1499.5 | 1464.8 | 1470.3 | 1391.8 | 1293.3 | 1242.3 |
| 16007.0 | 60°   | 15222.6 | 13252.5 | 6041.6 | 1773.1 | 1388.2 | 1377.2 | 1413.7 | 1333.5 | 1218.5 | 1160.2 |
| 16694.7 | 62.5° | 15541.8 | 13248.9 | 5144.1 | 1452.0 | 1293.3 | 1297.0 | 1338.9 | 1260.5 | 1143.7 | 1089.0 |
| 17054.0 | 65°   | 15514.5 | 12924.2 | 4159.1 | 1242.3 | 1202.1 | 1205.8 | 1260.5 | 1180.2 | 1081.7 | 1048.9 |
| 16873.5 | 67.5° | 14965.4 | 12132.5 | 3190.5 | 1105.4 | 1101.8 | 1118.2 | 1182.1 | 1125.5 | 1043.4 | 1039.8 |
| 15797.2 | 70°   | 13478.7 | 10488.9 | 2298.4 | 996.0  | 997.8  | 1021.5 | 1105.4 | 1090.8 | 1023.4 | 1030.6 |
| 13281.7 | 72.5° | 10808.1 | 7997.1  | 1543.2 | 881.1  | 882.9  | 921.2  | 1032.5 | 1063.5 | 1003.3 | 1100.0 |
| 9423.6  | 75°   | 7198.1  | 4987.2  | 992.3  | 758.8  | 760.7  | 809.9  | 968.6  | 1010.6 | 948.6  | 1096.3 |
| 4903.3  | 77.5° | 3458.6  | 2241.9  | 718.7  | 638.5  | 638.5  | 684.1  | 837.3  | 904.8  | 808.1  | 851.9  |
| 1576.1  | 80°   | 1194.8  | 842.8   | 565.5  | 514.4  | 503.5  | 534.5  | 705.9  | 784.4  | 696.8  | 642.1  |
| 514.4   | 82.5° | 470.6   | 437.8   | 454.2  | 399.5  | 363.0  | 383.1  | 549.1  | 647.6  | 512.6  | 463.3  |
| 290.0   | 85°   | 270.0   | 284.6   | 321.1  | 264.5  | 209.8  | 235.3  | 403.1  | 465.2  | 386.7  | 341.1  |
| 94.9    | 87.5° | 73.0    | 100.3   | 147.8  | 136.8  | 94.9   | 100.3  | 191.5  | 257.2  | 222.5  | 171.5  |
| 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°   |
|--------|
| 3850.8 |
| 3949.3 |
| 4106.2 |
| 4295.9 |
| 4471.0 |
| 4533.0 |
| 4534.9 |
| 4454.6 |
| 4266.7 |
| 4000.4 |
| 3721.3 |
| 3465.9 |
| 3239.7 |
| 2957.0 |
| 2639.6 |
| 2324.0 |
| 2041.2 |
| 1804.1 |
| 1568.8 |
| 1435.6 |
| 1351.7 |
| 1293.3 |
| 1253.2 |
| 1209.4 |
| 1134.6 |
| 1072.6 |
| 1047.1 |
| 1045.2 |
| 1028.8 |
| 1114.6 |
| 1105.4 |
| 780.7  |
| 602.0  |
| 461.5  |
| 348.4  |
| 176.9  |
| 0.0    |