

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: P954345

Luminaire Tested: **GLAN-SB7C-850-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7C-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 43436 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

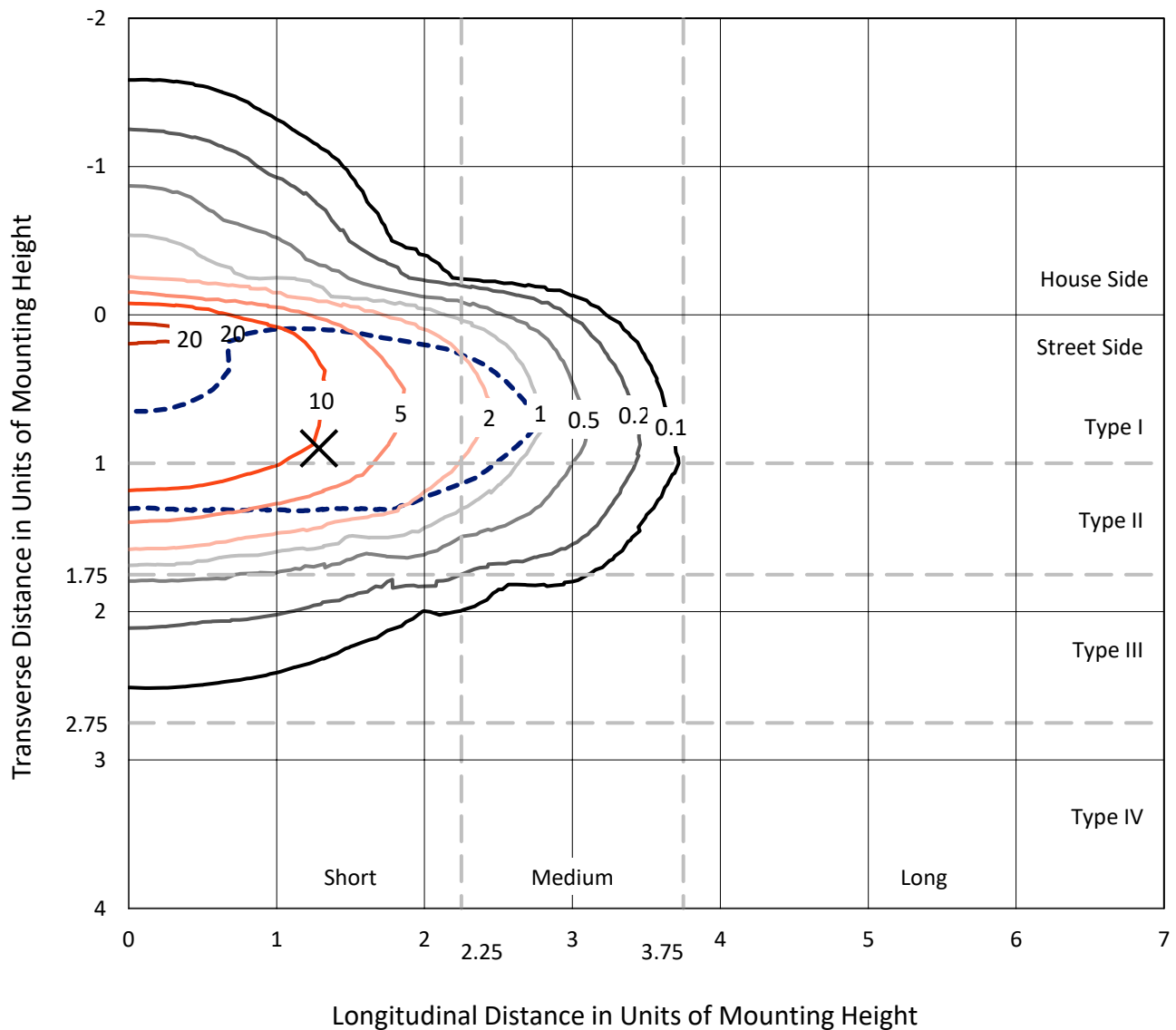
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P954345  
CATALOG NUMBER: GLAN-SB7C-850-U-AFL-HSS

## Iso-Footcandle Lines of Horizontal Illumination

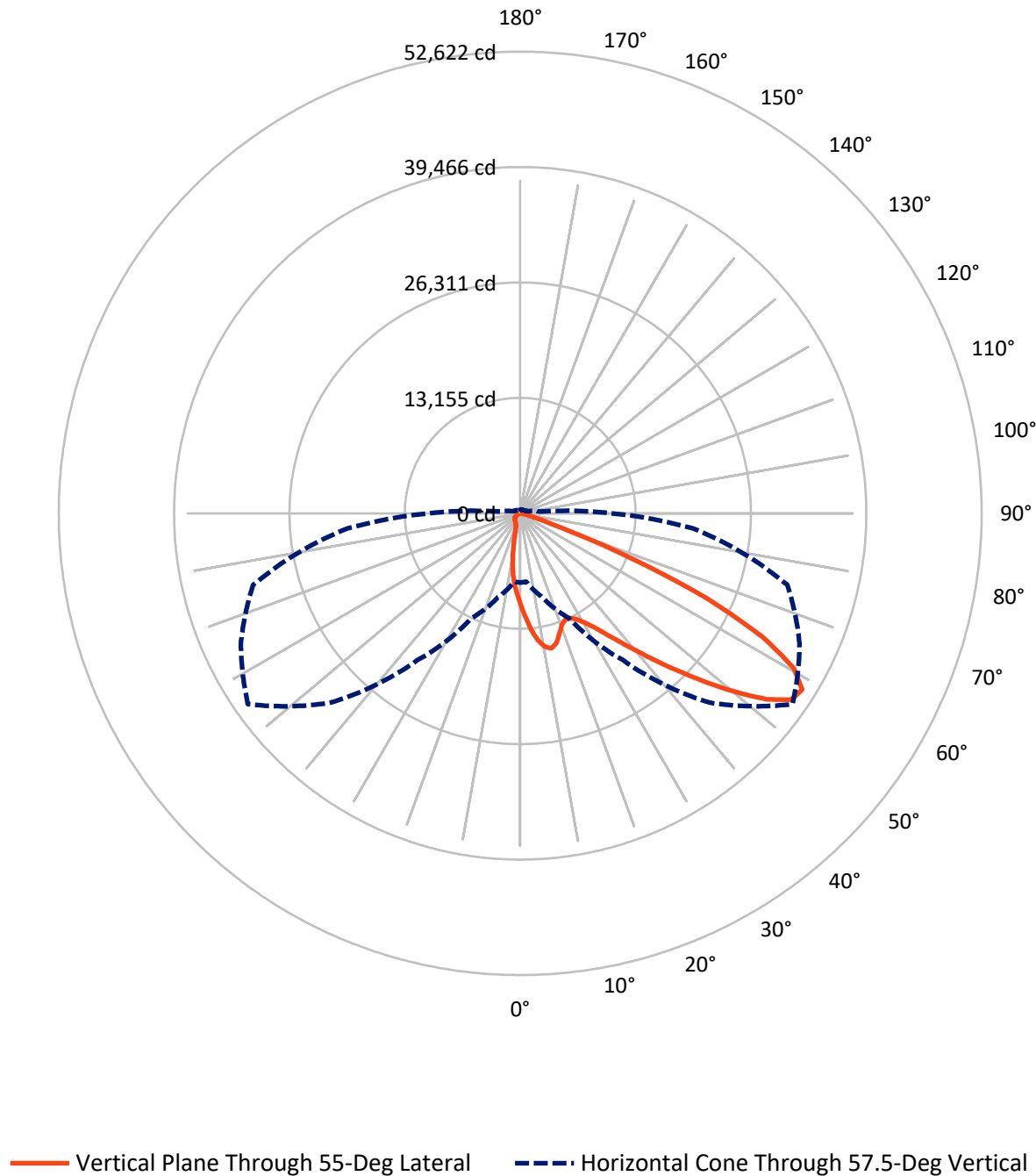
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc  
Type II - Short - N/A

REPORT NUMBER: P954345  
CATALOG NUMBER: GLAN-SB7C-850-U-AFL-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P954345

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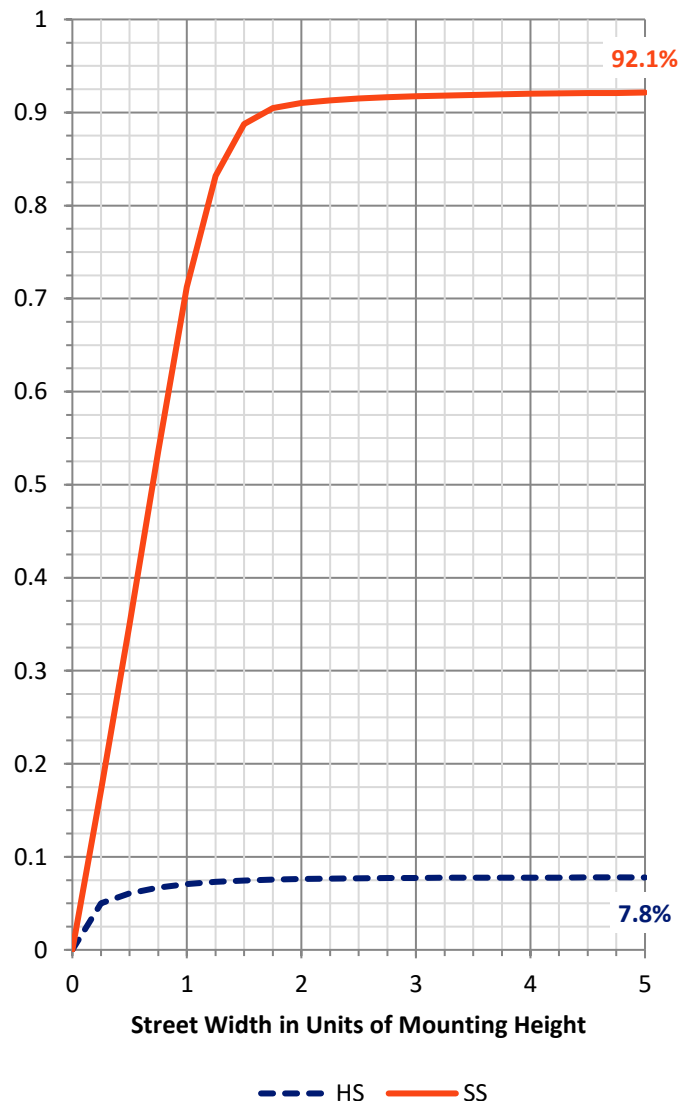
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3392.2   | 0.0    | 3392.2  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 40043.8  | 0.0    | 40043.8 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 43436.0  | 0.0    | 43436.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 973.9   | 2.2       |
| 10°-20°   | 2352.5  | 5.4       |
| 20°-30°   | 3763.9  | 8.7       |
| 30°-40°   | 6370.6  | 14.7      |
| 40°-50°   | 10459.2 | 24.1      |
| 50°-60°   | 11495.4 | 26.5      |
| 60°-70°   | 6593.8  | 15.2      |
| 70°-80°   | 1347.3  | 3.1       |
| 80°-90°   | 79.5    | 0.2       |
| 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°    | 43436.0 | 100.0     |
| 0°-180°   | 43436.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P954345

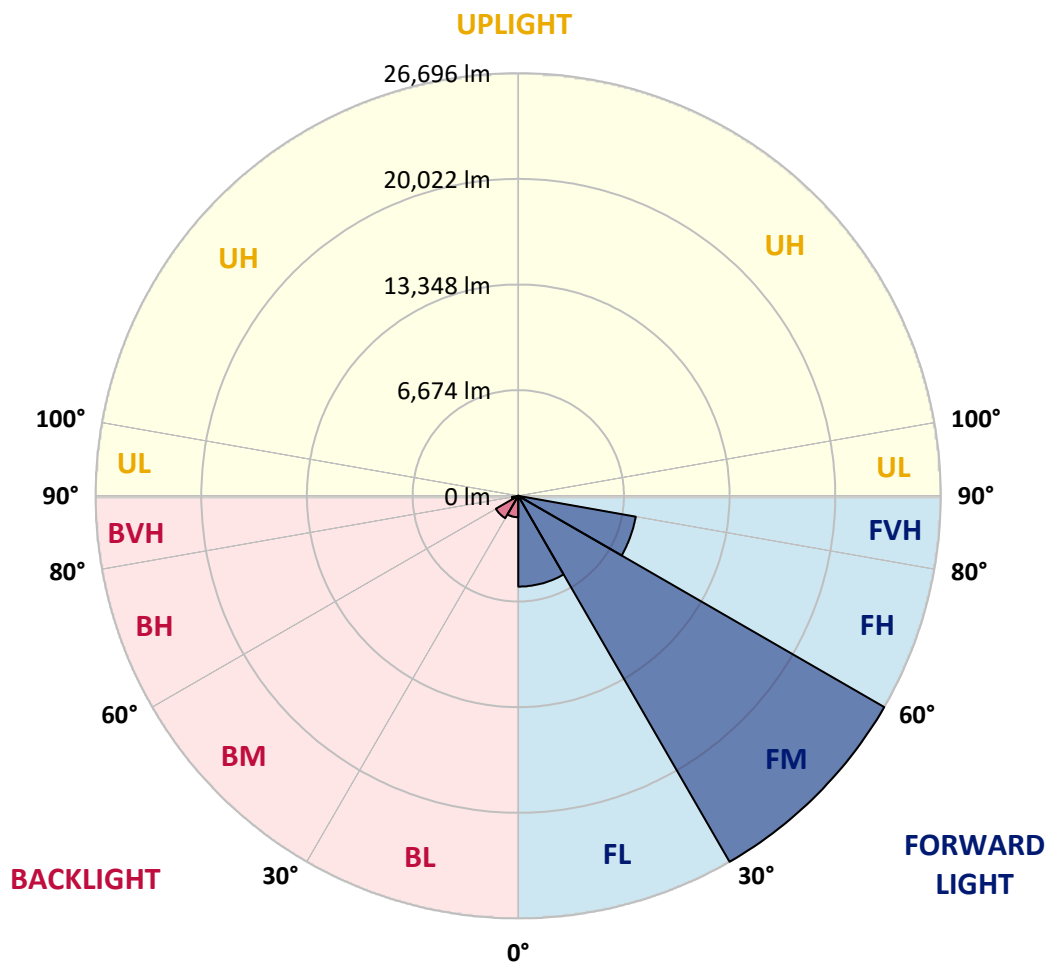
CATALOG NUMBER: GLAN-SB7C-850-U-AFL-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 5736.0  | 13.2      |                         |      |          |
| FM   | (30°-60°)   | 26696.1 | 61.5      |                         |      |          |
| FH   | (60°-80°)   | 7537.6  | 17.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 74.1    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 1354.2  | 3.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1629.1  | 3.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 403.4   | 0.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 5.4     | 0.0       |                         |      | G0/10    |
| 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 Short



REPORT NUMBER: P954345

CATALOG NUMBER: GLAN-SB7C-850-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 |
| 2.5°  | 12987.3 | 12824.0 | 12799.9 | 12767.7 | 12457.0 | 12224.0 | 11886.5 | 11516.9 | 11101.8 | 10678.6 |
| 5°    | 15004.1 | 14875.6 | 14851.5 | 14701.5 | 14347.9 | 13951.5 | 13351.6 | 12593.6 | 11819.6 | 10908.9 |
| 7.5°  | 15395.2 | 15371.1 | 15480.9 | 15475.5 | 15427.3 | 15113.9 | 14607.7 | 13705.1 | 12542.7 | 11192.8 |
| 10°   | 13651.6 | 13713.2 | 14039.9 | 14326.5 | 15100.6 | 15550.5 | 15440.7 | 14696.1 | 13287.3 | 11516.9 |
| 12.5° | 12063.3 | 11991.0 | 12224.0 | 12548.1 | 13448.0 | 14787.2 | 15786.2 | 15523.7 | 14139.0 | 11883.9 |
| 15°   | 11067.0 | 11037.5 | 11168.7 | 11318.7 | 12004.4 | 13354.3 | 15384.5 | 16196.0 | 14958.6 | 12317.7 |
| 17.5° | 10748.2 | 10724.1 | 10764.3 | 10801.8 | 11246.4 | 12291.0 | 14428.3 | 16608.5 | 15743.4 | 12813.2 |
| 20°   | 11008.0 | 10975.9 | 10970.5 | 10941.1 | 11125.9 | 11838.3 | 13563.2 | 16637.9 | 16447.8 | 13263.2 |
| 22.5° | 11766.0 | 11728.5 | 11597.3 | 11479.4 | 11495.5 | 11899.9 | 13177.5 | 16343.3 | 16978.1 | 13683.7 |
| 25°   | 13140.0 | 13078.4 | 12805.2 | 12408.8 | 12157.0 | 12328.5 | 13236.4 | 15955.0 | 17484.3 | 14013.1 |
| 27.5° | 14859.5 | 14779.2 | 14428.3 | 13839.1 | 13263.2 | 13054.3 | 13662.3 | 15687.1 | 17904.8 | 14264.9 |
| 30°   | 16544.2 | 16439.7 | 16094.2 | 15636.2 | 14795.2 | 14136.3 | 14431.0 | 15805.0 | 18405.6 | 14527.4 |
| 32.5° | 18362.8 | 18263.7 | 17805.7 | 17237.9 | 16541.5 | 15655.0 | 15483.6 | 16380.8 | 19019.0 | 14894.3 |
| 35°   | 20663.5 | 20508.2 | 19857.3 | 19083.3 | 18344.0 | 17446.8 | 16908.4 | 17374.5 | 19835.9 | 15454.1 |
| 37.5° | 23282.9 | 23074.0 | 22372.3 | 21303.6 | 20339.4 | 19335.0 | 18644.0 | 18740.4 | 21033.1 | 16204.0 |
| 40°   | 25752.4 | 25562.2 | 24914.0 | 23907.0 | 22696.4 | 21477.7 | 20741.2 | 20526.9 | 22685.7 | 17117.4 |
| 42.5° | 27233.5 | 27062.1 | 26788.9 | 26363.0 | 25342.6 | 24099.8 | 23170.4 | 22707.1 | 24640.9 | 18210.1 |
| 45°   | 27316.5 | 27166.5 | 27533.5 | 28029.0 | 27828.1 | 27000.5 | 25867.5 | 25018.5 | 26604.1 | 19235.9 |
| 47.5° | 25988.1 | 25886.3 | 27000.5 | 28730.7 | 29593.1 | 29941.3 | 28896.8 | 27137.1 | 28224.5 | 19972.5 |
| 50°   | 22366.9 | 22329.4 | 24622.1 | 27798.6 | 30265.4 | 32517.9 | 32092.0 | 29108.3 | 29480.6 | 20352.8 |
| 52.5° | 19394.0 | 19257.4 | 20593.9 | 24814.9 | 29287.8 | 33873.1 | 35215.0 | 31042.1 | 30359.1 | 20425.1 |
| 55°   | 14709.5 | 14589.0 | 16265.6 | 19822.5 | 26135.4 | 33391.0 | 37499.6 | 33037.5 | 30988.6 | 20240.3 |
| 57.5° | 7890.4  | 7815.4  | 9934.0  | 13193.6 | 20430.5 | 30498.4 | 37912.1 | 35148.0 | 31518.9 | 19750.2 |
| 60°   | 3072.1  | 3058.7  | 3851.5  | 6401.3  | 12416.8 | 24812.3 | 35831.0 | 36414.9 | 31851.0 | 19147.5 |
| 62.5° | 1858.8  | 1899.0  | 2027.5  | 2873.9  | 5485.3  | 15413.9 | 31034.1 | 34973.9 | 32073.3 | 18595.8 |
| 65°   | 1537.4  | 1540.1  | 1556.1  | 1973.9  | 2627.5  | 6449.5  | 23363.3 | 30233.3 | 31524.2 | 17612.9 |
| 67.5° | 1317.7  | 1341.9  | 1403.5  | 1566.8  | 1853.4  | 2828.3  | 13450.7 | 23419.5 | 28184.3 | 15325.5 |
| 70°   | 1039.2  | 1071.3  | 1149.0  | 1288.3  | 1430.2  | 1770.4  | 4971.0  | 15582.7 | 21531.3 | 11551.7 |
| 72.5° | 875.8   | 873.1   | 913.3   | 1047.2  | 1135.6  | 1245.4  | 1912.3  | 8731.4  | 12513.3 | 5514.7  |
| 75°   | 677.6   | 704.4   | 755.3   | 875.8   | 929.4   | 902.6   | 1036.5  | 3189.9  | 4483.6  | 1671.3  |
| 77.5° | 530.3   | 551.7   | 597.3   | 715.1   | 768.7   | 640.1   | 597.3   | 1141.0  | 1441.0  | 600.0   |
| 80°   | 238.4   | 257.1   | 407.1   | 527.6   | 626.7   | 441.9   | 324.1   | 583.9   | 640.1   | 273.2   |
| 82.5° | 42.9    | 72.3    | 238.4   | 278.5   | 321.4   | 286.6   | 168.7   | 302.7   | 313.4   | 109.8   |
| 85°   | 2.7     | 5.4     | 83.0    | 101.8   | 128.6   | 93.7    | 50.9    | 120.5   | 104.5   | 37.5    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.7     | 2.7     | 13.4    | 16.1    | 21.4    | 16.1    | 13.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P954345

CATALOG NUMBER: GLAN-SB7C-850-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 10467.0 | 0°    | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 | 10467.0 |
| 10491.1 | 2.5°  | 10298.3 | 9917.9  | 9548.3  | 9245.7  | 9068.9  | 8768.9  | 8570.7  | 8538.6  | 8455.6  | 8527.9  |
| 10517.9 | 5°    | 10100.1 | 9419.8  | 8731.4  | 8115.4  | 7609.2  | 6955.7  | 6468.2  | 6262.0  | 6082.5  | 6144.1  |
| 10587.5 | 7.5°  | 10006.3 | 8932.3  | 7861.0  | 6808.4  | 5726.3  | 4681.8  | 3905.0  | 3581.0  | 3334.6  | 3369.4  |
| 10665.2 | 10°   | 9880.4  | 8426.1  | 6746.8  | 5139.8  | 3690.8  | 2659.6  | 2123.9  | 1925.7  | 1815.9  | 1818.6  |
| 10780.4 | 12.5° | 9784.0  | 7820.8  | 5453.1  | 3484.5  | 2247.1  | 1698.1  | 1532.0  | 1483.8  | 1451.7  | 1454.3  |
| 10954.5 | 15°   | 9735.8  | 7108.4  | 4175.6  | 2322.1  | 1607.0  | 1438.3  | 1398.1  | 1376.7  | 1355.2  | 1352.6  |
| 11147.3 | 17.5° | 9655.5  | 6315.6  | 3056.0  | 1695.4  | 1406.1  | 1347.2  | 1312.4  | 1288.3  | 1261.5  | 1256.1  |
| 11313.4 | 20°   | 9534.9  | 5415.6  | 2233.7  | 1432.9  | 1317.7  | 1272.2  | 1224.0  | 1191.9  | 1159.7  | 1154.4  |
| 11417.8 | 22.5° | 9312.6  | 4464.8  | 1716.8  | 1325.8  | 1253.5  | 1202.6  | 1143.7  | 1106.2  | 1074.0  | 1068.7  |
| 11366.9 | 25°   | 8900.2  | 3572.9  | 1446.3  | 1258.8  | 1197.2  | 1135.6  | 1071.3  | 1020.5  | 991.0   | 985.6   |
| 11257.1 | 27.5° | 8377.9  | 2806.9  | 1312.4  | 1197.2  | 1124.9  | 1068.7  | 996.3   | 948.1   | 921.4   | 916.0   |
| 11112.5 | 30°   | 7761.9  | 2161.4  | 1234.7  | 1127.6  | 1039.2  | 991.0   | 926.7   | 886.5   | 870.5   | 870.5   |
| 11010.7 | 32.5° | 7097.6  | 1727.5  | 1202.6  | 1057.9  | 964.2   | 910.6   | 859.8   | 843.7   | 838.3   | 835.6   |
| 11067.0 | 35°   | 6473.6  | 1499.9  | 1186.5  | 1001.7  | 897.2   | 846.4   | 824.9   | 827.6   | 838.3   | 838.3   |
| 11241.0 | 37.5° | 5919.2  | 1427.6  | 1178.5  | 961.5   | 838.3   | 792.8   | 806.2   | 830.3   | 819.6   | 819.6   |
| 11546.4 | 40°   | 5418.3  | 1435.6  | 1173.1  | 932.1   | 790.1   | 763.3   | 790.1   | 771.4   | 744.6   | 741.9   |
| 11918.7 | 42.5° | 5035.3  | 1502.6  | 1162.4  | 908.0   | 760.7   | 741.9   | 731.2   | 701.7   | 699.1   | 704.4   |
| 12304.4 | 45°   | 4756.8  | 1561.5  | 1159.7  | 897.2   | 728.5   | 693.7   | 680.3   | 650.8   | 704.4   | 717.8   |
| 12462.4 | 47.5° | 4427.3  | 1561.5  | 1159.7  | 859.8   | 674.9   | 661.6   | 640.1   | 608.0   | 661.6   | 674.9   |
| 12312.4 | 50°   | 4001.5  | 1462.4  | 1114.2  | 816.9   | 632.1   | 624.1   | 586.6   | 546.4   | 535.7   | 543.7   |
| 11961.5 | 52.5° | 3463.1  | 1282.9  | 999.0   | 758.0   | 589.2   | 573.2   | 527.6   | 498.2   | 490.1   | 490.1   |
| 11332.1 | 55°   | 2849.8  | 1074.0  | 843.7   | 672.3   | 543.7   | 514.2   | 482.1   | 468.7   | 460.7   | 455.3   |
| 10450.9 | 57.5° | 2316.8  | 881.2   | 677.6   | 597.3   | 500.9   | 463.4   | 452.6   | 436.6   | 423.2   | 415.1   |
| 9714.4  | 60°   | 1901.6  | 693.7   | 559.8   | 530.3   | 458.0   | 423.2   | 420.5   | 399.1   | 364.3   | 358.9   |
| 9106.4  | 62.5° | 1467.7  | 508.9   | 471.4   | 460.7   | 415.1   | 385.7   | 380.3   | 337.5   | 283.9   | 273.2   |
| 8244.0  | 65°   | 1036.5  | 396.4   | 380.3   | 404.4   | 369.6   | 342.8   | 329.4   | 265.2   | 208.9   | 200.9   |
| 6899.4  | 67.5° | 728.5   | 332.1   | 300.0   | 353.5   | 321.4   | 286.6   | 278.5   | 225.0   | 174.1   | 168.7   |
| 5217.4  | 70°   | 519.6   | 270.5   | 246.4   | 302.7   | 257.1   | 251.8   | 235.7   | 187.5   | 142.0   | 136.6   |
| 2581.9  | 72.5° | 366.9   | 206.2   | 190.2   | 262.5   | 176.8   | 216.9   | 192.8   | 144.6   | 107.1   | 101.8   |
| 878.5   | 75°   | 270.5   | 147.3   | 133.9   | 152.7   | 128.6   | 163.4   | 136.6   | 96.4    | 67.0    | 64.3    |
| 396.4   | 77.5° | 198.2   | 93.7    | 80.4    | 75.0    | 75.0    | 101.8   | 75.0    | 40.2    | 29.5    | 26.8    |
| 200.9   | 80°   | 139.3   | 42.9    | 37.5    | 32.1    | 29.5    | 24.1    | 10.7    | 5.4     | 2.7     | 2.7     |
| 69.6    | 82.5° | 83.0    | 18.7    | 18.7    | 13.4    | 8.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 26.8    | 85°   | 18.7    | 8.0     | 8.0     | 2.7     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 10.7    | 87.5° | 2.7     | 2.7     | 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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