

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: P846483

Luminaire Tested: **GLAN-SB2A-850-U-SL4**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P846483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2A-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7635 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

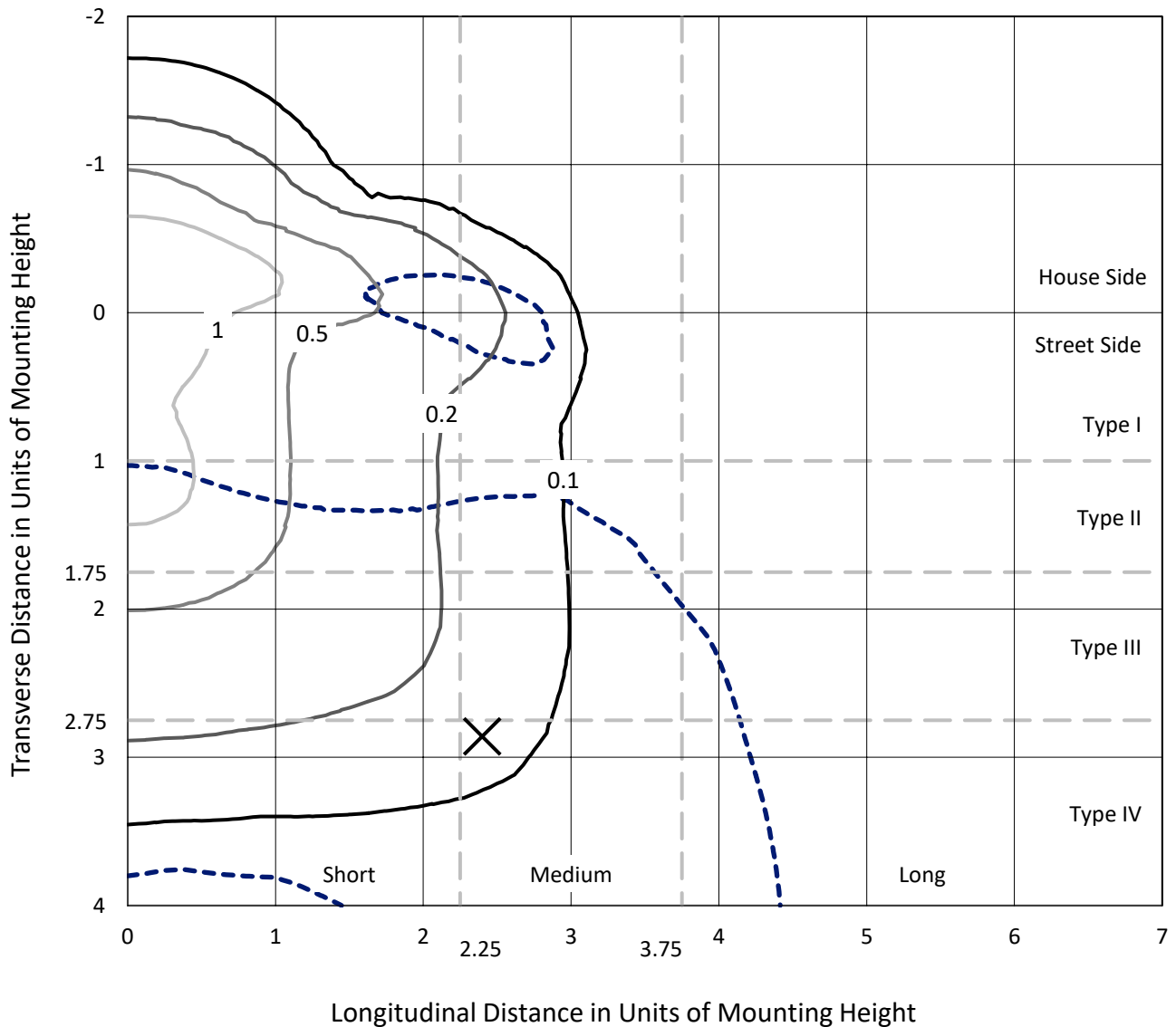
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P846483  
CATALOG NUMBER: GLAN-SB2A-850-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

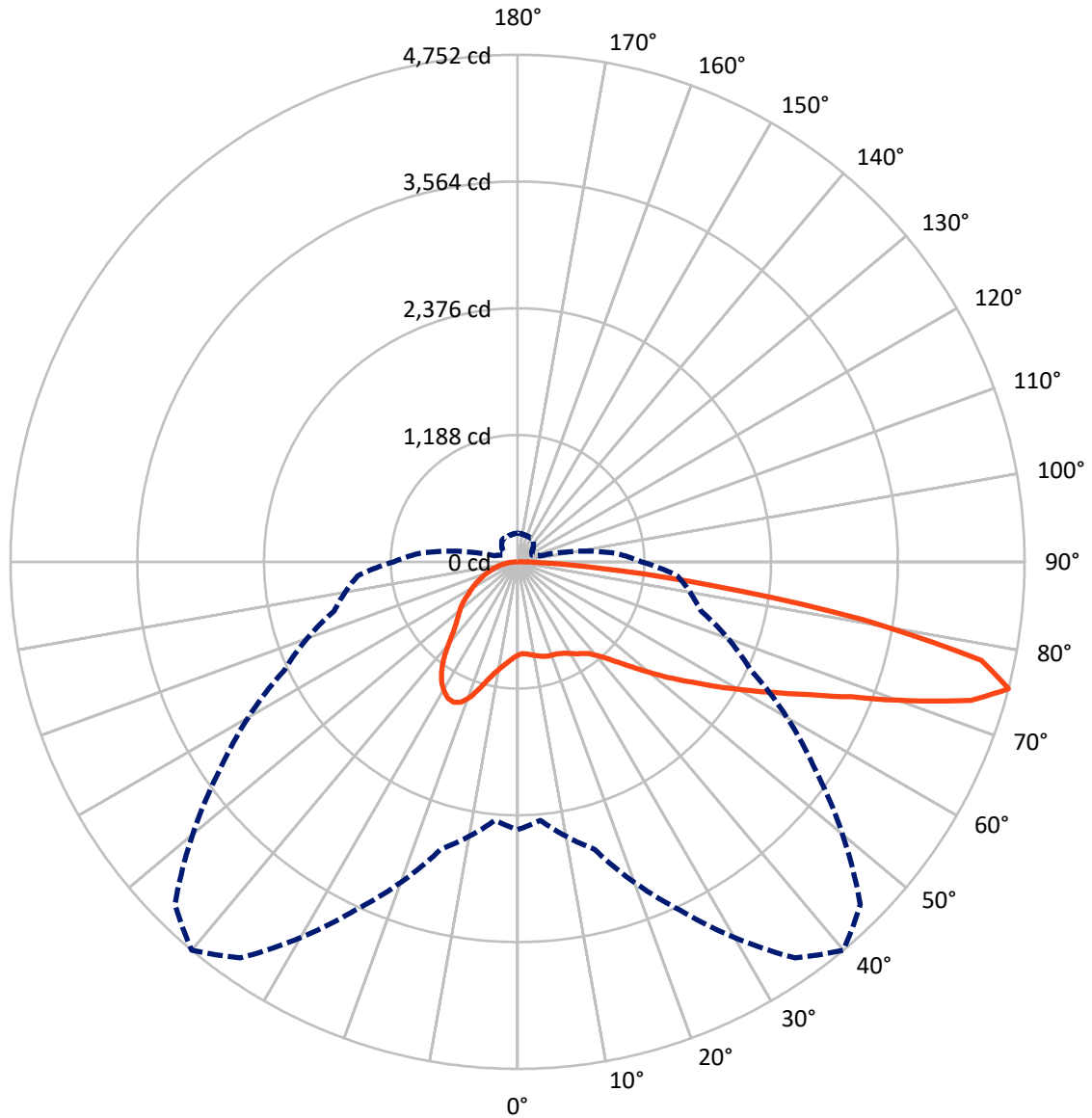
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
Type IV - Medium - N/A

REPORT NUMBER: P846483  
CATALOG NUMBER: GLAN-SB2A-850-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P846483  
 CATALOG NUMBER: GLAN-SB2A-850-U-SL4

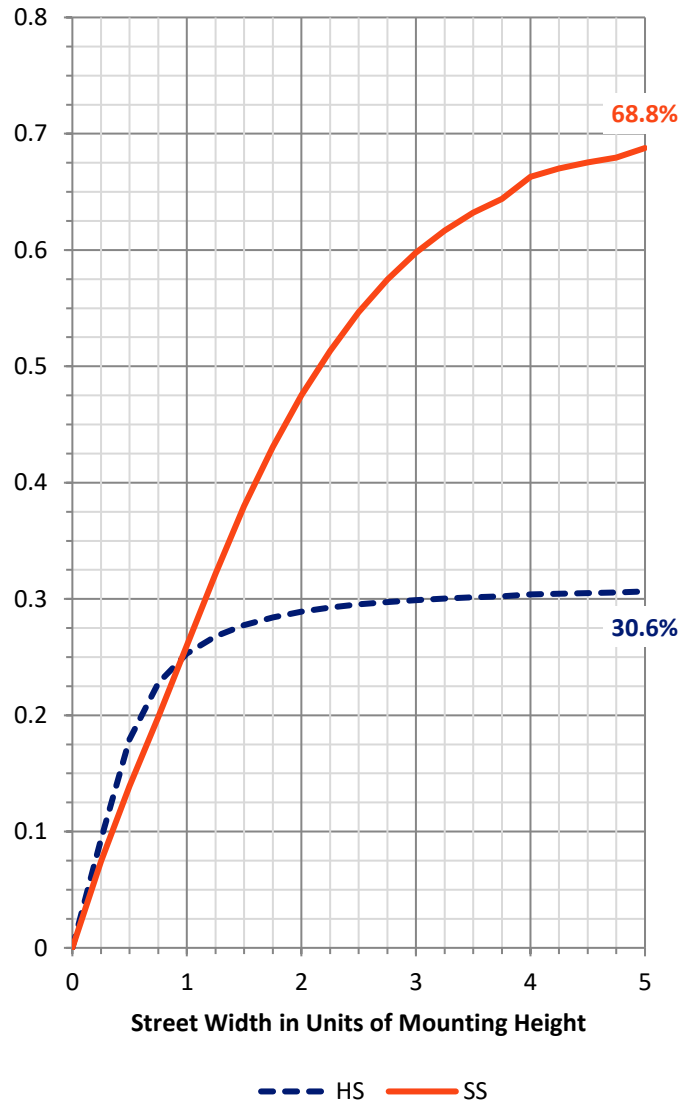
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2365.6   | 0.0    | 2365.6 |
|                    | % Fixture | 31.0     | 0.0    | 31.0   |
| <b>Street Side</b> | Lumens    | 5269.4   | 0.0    | 5269.4 |
|                    | % Fixture | 69.0     | 0.0    | 69.0   |
| <b>Total</b>       | Lumens    | 7635.0   | 0.0    | 7635.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 87.1   | 1.1       |
| 10°-20°   | 292.6  | 3.8       |
| 20°-30°   | 534.3  | 7.0       |
| 30°-40°   | 757.7  | 9.9       |
| 40°-50°   | 1023.2 | 13.4      |
| 50°-60°   | 1376.4 | 18.0      |
| 60°-70°   | 1747.0 | 22.9      |
| 70°-80°   | 1585.5 | 20.8      |
| 80°-90°   | 231.1  | 3.0       |
| 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°    | 7635.0 | 100.0     |
| 0°-180°   | 7635.0 | 100.0     |

**Coefficient of Utilization**

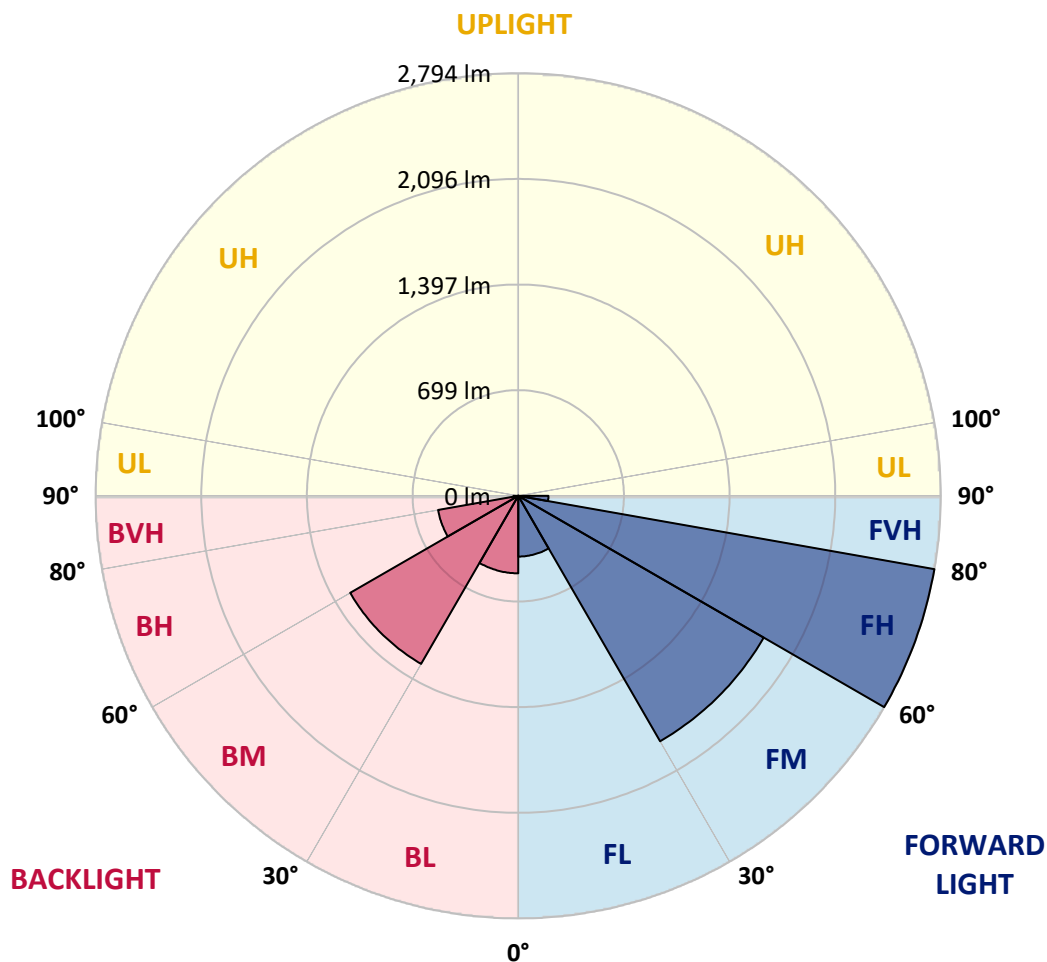


REPORT NUMBER: P846483  
 CATALOG NUMBER: GLAN-SB2A-850-U-SL4

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 401.6  | 5.3       |                         |      |         |
| FM (30°-60°)   | 1874.2 | 24.5      |                         |      |         |
| FH (60°-80°)   | 2794.3 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 199.3  | 2.6       |                         |      | G2/225  |
| BL (0°-30°)    | 512.4  | 6.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 1283.1 | 16.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 538.2  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 31.8   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type IV Medium



REPORT NUMBER: P846483  
 CATALOG NUMBER: GLAN-SB2A-850-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  |
| 2.5°  | 859.7  | 864.6  | 863.4  | 861.7  | 861.7  | 862.1  | 861.7  | 864.6  | 867.4  | 870.2  |
| 5°    | 868.6  | 873.5  | 871.0  | 869.0  | 867.4  | 867.0  | 865.8  | 865.4  | 867.0  | 870.6  |
| 7.5°  | 886.0  | 890.9  | 887.2  | 883.6  | 880.4  | 878.7  | 877.1  | 874.7  | 873.5  | 875.5  |
| 10°   | 905.5  | 910.3  | 905.9  | 899.4  | 894.1  | 892.1  | 890.5  | 888.1  | 886.4  | 887.7  |
| 12.5° | 924.9  | 929.8  | 923.7  | 914.8  | 907.9  | 906.7  | 904.7  | 903.8  | 903.4  | 903.0  |
| 15°   | 943.1  | 947.2  | 939.5  | 929.0  | 921.7  | 919.6  | 917.6  | 918.8  | 920.9  | 923.3  |
| 17.5° | 957.3  | 961.4  | 950.0  | 936.2  | 929.4  | 928.6  | 927.3  | 931.4  | 937.1  | 943.1  |
| 20°   | 970.3  | 974.3  | 959.7  | 941.1  | 933.0  | 933.0  | 933.4  | 941.9  | 950.0  | 958.9  |
| 22.5° | 988.5  | 991.7  | 973.9  | 948.4  | 936.6  | 937.5  | 940.7  | 949.2  | 959.3  | 971.5  |
| 25°   | 1015.6 | 1018.0 | 996.2  | 962.2  | 948.8  | 951.2  | 954.1  | 958.1  | 967.8  | 982.0  |
| 27.5° | 1059.3 | 1061.4 | 1032.6 | 986.5  | 966.2  | 970.3  | 974.3  | 971.5  | 975.9  | 988.1  |
| 30°   | 1120.9 | 1122.1 | 1085.7 | 1024.5 | 995.8  | 997.8  | 998.6  | 986.9  | 978.4  | 988.1  |
| 32.5° | 1193.8 | 1193.4 | 1150.1 | 1070.7 | 1029.4 | 1027.4 | 1020.5 | 997.4  | 977.5  | 986.1  |
| 35°   | 1306.8 | 1302.3 | 1246.4 | 1135.5 | 1067.4 | 1054.9 | 1038.7 | 1009.1 | 981.6  | 984.0  |
| 37.5° | 1493.9 | 1480.1 | 1402.7 | 1241.6 | 1124.1 | 1092.2 | 1068.3 | 1028.2 | 990.5  | 983.2  |
| 40°   | 1704.8 | 1687.4 | 1602.4 | 1387.0 | 1209.2 | 1157.8 | 1119.3 | 1055.3 | 1005.1 | 986.9  |
| 42.5° | 1955.1 | 1930.4 | 1838.9 | 1558.2 | 1316.9 | 1242.4 | 1184.5 | 1089.7 | 1026.5 | 998.6  |
| 45°   | 2262.5 | 2229.7 | 2100.1 | 1751.4 | 1452.6 | 1353.3 | 1276.0 | 1142.0 | 1059.3 | 1021.3 |
| 47.5° | 2573.1 | 2581.2 | 2396.9 | 1972.5 | 1615.3 | 1490.2 | 1390.6 | 1220.5 | 1107.1 | 1057.7 |
| 50°   | 2903.1 | 2908.8 | 2692.1 | 2217.5 | 1800.0 | 1644.9 | 1519.4 | 1308.4 | 1173.5 | 1109.6 |
| 52.5° | 3160.6 | 3161.4 | 2960.2 | 2473.8 | 1992.4 | 1815.0 | 1658.3 | 1408.8 | 1250.5 | 1178.4 |
| 55°   | 3321.8 | 3319.8 | 3148.1 | 2716.4 | 2213.5 | 1993.6 | 1812.2 | 1523.0 | 1344.4 | 1259.4 |
| 57.5° | 3438.8 | 3432.8 | 3277.7 | 2925.0 | 2449.1 | 2204.5 | 1986.3 | 1652.6 | 1455.4 | 1355.8 |
| 60°   | 3483.4 | 3479.7 | 3365.5 | 3105.2 | 2697.0 | 2437.8 | 2187.1 | 1797.6 | 1581.3 | 1469.6 |
| 62.5° | 3500.4 | 3507.3 | 3451.8 | 3279.7 | 2962.2 | 2696.2 | 2407.8 | 1970.9 | 1723.1 | 1598.3 |
| 65°   | 3560.3 | 3572.9 | 3561.5 | 3508.1 | 3261.9 | 2998.7 | 2700.6 | 2177.0 | 1877.8 | 1736.4 |
| 67.5° | 3679.0 | 3691.5 | 3696.4 | 3781.4 | 3627.9 | 3375.7 | 3065.9 | 2433.8 | 2058.8 | 1879.8 |
| 70°   | 3676.1 | 3672.5 | 3758.3 | 3998.9 | 4086.4 | 3897.6 | 3558.3 | 2749.6 | 2274.6 | 1998.8 |
| 72.5° | 3346.1 | 3316.9 | 3519.8 | 3996.5 | 4467.8 | 4442.7 | 4159.6 | 3157.0 | 2460.9 | 2013.4 |
| 75°   | 2510.3 | 2432.5 | 2790.9 | 3601.6 | 4531.4 | 4752.1 | 4541.9 | 3409.7 | 2416.7 | 1778.9 |
| 77.5° | 1073.5 | 995.4  | 1417.7 | 2666.2 | 4055.6 | 4442.3 | 4191.2 | 2974.8 | 1929.2 | 1176.4 |
| 80°   | 281.0  | 280.6  | 428.4  | 1208.8 | 2758.1 | 3280.5 | 2878.0 | 1921.1 | 1102.3 | 420.3  |
| 82.5° | 116.2  | 113.4  | 157.5  | 470.1  | 1347.7 | 1840.9 | 1502.4 | 856.9  | 398.1  | 113.8  |
| 85°   | 43.3   | 42.9   | 76.5   | 162.4  | 475.4  | 759.3  | 549.5  | 219.1  | 99.2   | 55.5   |
| 87.5° | 12.1   | 11.7   | 16.6   | 56.3   | 115.8  | 175.7  | 93.9   | 36.0   | 27.9   | 21.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P846483  
 CATALOG NUMBER: GLAN-SB2A-850-U-SL4

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 873.1  | 0°    | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  | 873.1  |
| 874.7  | 2.5°  | 875.9  | 877.9  | 881.6  | 884.4  | 888.1  | 892.1  | 897.8  | 901.4  | 905.1  | 907.5  |
| 876.7  | 5°    | 879.6  | 884.0  | 893.3  | 902.6  | 913.6  | 923.7  | 935.4  | 943.9  | 950.8  | 952.8  |
| 884.0  | 7.5°  | 887.7  | 894.9  | 910.7  | 926.5  | 943.9  | 960.5  | 977.5  | 992.1  | 1003.9 | 1008.3 |
| 897.0  | 10°   | 901.8  | 911.5  | 933.8  | 956.1  | 979.2  | 1004.7 | 1026.5 | 1047.6 | 1064.2 | 1071.1 |
| 912.4  | 12.5° | 919.6  | 931.8  | 960.9  | 991.7  | 1023.7 | 1058.9 | 1087.3 | 1113.2 | 1133.9 | 1143.2 |
| 933.8  | 15°   | 942.7  | 958.5  | 995.8  | 1037.1 | 1084.1 | 1133.1 | 1169.1 | 1197.8 | 1220.9 | 1232.3 |
| 956.1  | 17.5° | 967.8  | 988.9  | 1035.9 | 1098.2 | 1165.4 | 1229.8 | 1271.9 | 1293.0 | 1316.9 | 1327.8 |
| 976.7  | 20°   | 992.1  | 1018.0 | 1085.3 | 1176.0 | 1265.5 | 1333.9 | 1367.9 | 1373.6 | 1375.2 | 1376.4 |
| 996.2  | 22.5° | 1017.2 | 1052.1 | 1147.2 | 1274.0 | 1369.9 | 1417.3 | 1422.2 | 1397.9 | 1363.9 | 1348.1 |
| 1015.2 | 25°   | 1044.8 | 1090.9 | 1228.2 | 1382.1 | 1459.8 | 1465.5 | 1428.3 | 1369.1 | 1304.7 | 1275.2 |
| 1030.6 | 27.5° | 1071.5 | 1135.9 | 1325.4 | 1485.4 | 1524.6 | 1474.8 | 1394.6 | 1310.8 | 1233.1 | 1201.9 |
| 1041.5 | 30°   | 1098.2 | 1187.3 | 1432.7 | 1575.7 | 1554.2 | 1451.7 | 1341.6 | 1248.1 | 1169.9 | 1137.1 |
| 1051.3 | 32.5° | 1125.4 | 1247.2 | 1556.2 | 1640.9 | 1548.9 | 1402.7 | 1275.6 | 1177.6 | 1108.8 | 1074.3 |
| 1059.8 | 35°   | 1156.1 | 1320.9 | 1673.3 | 1676.5 | 1513.7 | 1330.7 | 1188.5 | 1093.4 | 1033.4 | 1005.9 |
| 1069.9 | 37.5° | 1196.2 | 1414.5 | 1776.5 | 1685.4 | 1452.2 | 1225.0 | 1080.4 | 993.7  | 944.3  | 931.8  |
| 1084.9 | 40°   | 1246.0 | 1527.1 | 1855.5 | 1671.2 | 1361.0 | 1096.6 | 962.2  | 892.9  | 865.0  | 867.8  |
| 1105.1 | 42.5° | 1310.8 | 1653.0 | 1911.0 | 1634.8 | 1234.3 | 964.2  | 858.5  | 827.7  | 841.1  | 852.4  |
| 1135.5 | 45°   | 1395.1 | 1783.8 | 1945.4 | 1572.8 | 1090.9 | 852.0  | 797.3  | 804.6  | 814.8  | 816.0  |
| 1184.5 | 47.5° | 1502.8 | 1916.2 | 1968.1 | 1479.3 | 944.7  | 773.0  | 758.5  | 760.1  | 758.1  | 749.6  |
| 1257.8 | 50°   | 1637.2 | 2045.0 | 1988.3 | 1355.4 | 820.4  | 723.6  | 704.2  | 698.5  | 670.6  | 643.1  |
| 1355.4 | 52.5° | 1790.3 | 2163.2 | 1996.8 | 1201.5 | 723.6  | 682.3  | 650.8  | 615.1  | 562.9  | 554.4  |
| 1478.1 | 55°   | 1960.4 | 2272.6 | 1974.9 | 1012.4 | 642.3  | 629.3  | 581.5  | 538.6  | 532.9  | 525.6  |
| 1639.6 | 57.5° | 2163.6 | 2390.4 | 1930.4 | 801.4  | 558.8  | 567.3  | 520.8  | 525.6  | 515.5  | 504.2  |
| 1847.4 | 60°   | 2386.0 | 2512.3 | 1852.2 | 609.0  | 472.6  | 490.0  | 505.0  | 504.6  | 501.7  | 492.4  |
| 2066.5 | 62.5° | 2586.0 | 2592.5 | 1698.4 | 466.5  | 396.9  | 430.1  | 471.0  | 470.6  | 468.1  | 462.9  |
| 2295.3 | 65°   | 2705.1 | 2580.3 | 1441.6 | 367.3  | 334.5  | 380.7  | 424.8  | 428.0  | 428.4  | 428.0  |
| 2467.4 | 67.5° | 2684.0 | 2438.2 | 1089.3 | 292.4  | 283.1  | 330.4  | 379.0  | 383.5  | 386.7  | 387.5  |
| 2489.2 | 70°   | 2445.9 | 2126.0 | 710.3  | 233.3  | 237.3  | 286.3  | 335.7  | 340.2  | 343.0  | 346.2  |
| 2160.0 | 72.5° | 1906.5 | 1563.1 | 406.6  | 188.7  | 197.2  | 248.2  | 292.8  | 298.0  | 299.7  | 305.7  |
| 1503.2 | 75°   | 1161.8 | 919.2  | 219.5  | 148.6  | 162.0  | 212.2  | 250.3  | 256.3  | 259.2  | 266.5  |
| 738.2  | 77.5° | 552.4  | 398.1  | 125.1  | 115.8  | 130.4  | 173.3  | 211.4  | 218.3  | 210.6  | 214.6  |
| 203.7  | 80°   | 186.7  | 147.8  | 79.0   | 88.3   | 99.6   | 135.3  | 169.3  | 176.2  | 160.0  | 159.1  |
| 67.6   | 82.5° | 65.2   | 59.9   | 50.2   | 58.7   | 64.4   | 96.8   | 128.0  | 136.9  | 119.1  | 118.7  |
| 30.4   | 85°   | 25.5   | 24.3   | 27.9   | 32.0   | 38.5   | 59.5   | 84.2   | 88.7   | 73.3   | 59.1   |
| 8.9    | 87.5° | 5.3    | 5.7    | 6.9    | 7.3    | 11.7   | 20.7   | 30.4   | 37.3   | 29.6   | 25.1   |
| 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°   |
| 873.1  |
| 905.9  |
| 953.7  |
| 1008.7 |
| 1071.5 |
| 1143.2 |
| 1231.5 |
| 1327.4 |
| 1379.7 |
| 1352.5 |
| 1279.6 |
| 1205.5 |
| 1140.7 |
| 1078.8 |
| 1012.0 |
| 940.7  |
| 877.5  |
| 862.9  |
| 824.1  |
| 756.0  |
| 646.7  |
| 557.2  |
| 526.8  |
| 502.1  |
| 489.2  |
| 460.8  |
| 428.0  |
| 388.3  |
| 347.9  |
| 308.2  |
| 267.3  |
| 211.4  |
| 157.5  |
| 113.0  |
| 58.3   |
| 23.1   |
| 0.0    |

F REPORT)