

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: McGRAW-EDISON

Report Number: P938996

Luminaire Tested: **GALN-SB1B-850-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-850-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

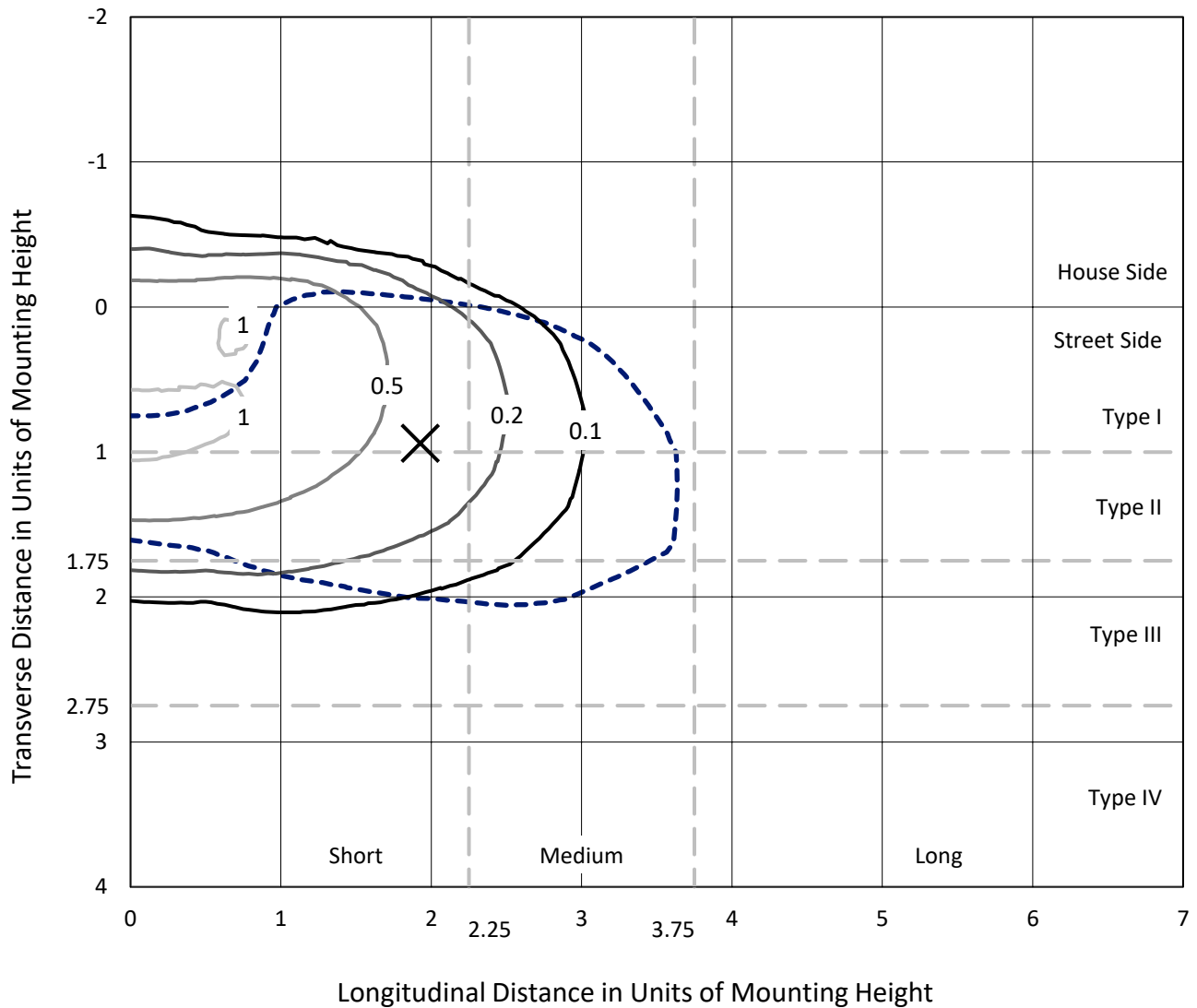
Lumens per Lamp: N/A  
Luminaire Lumens: 4226 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P938996  
 CATALOG NUMBER: GALN-SB1B-850-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

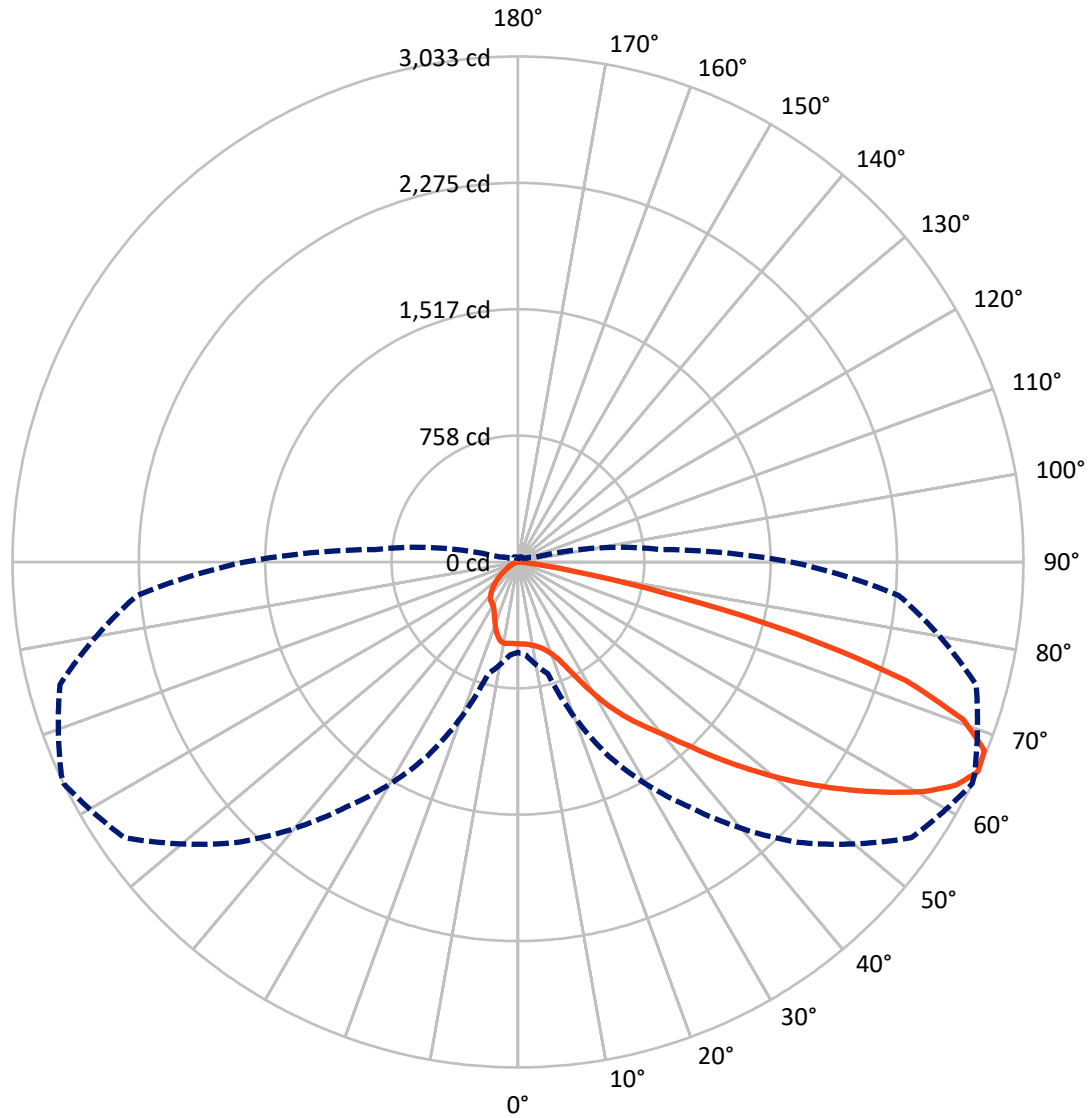
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P938996  
CATALOG NUMBER: GALN-SB1B-850-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P938996  
 CATALOG NUMBER: GALN-SB1B-850-U-T3-HSS

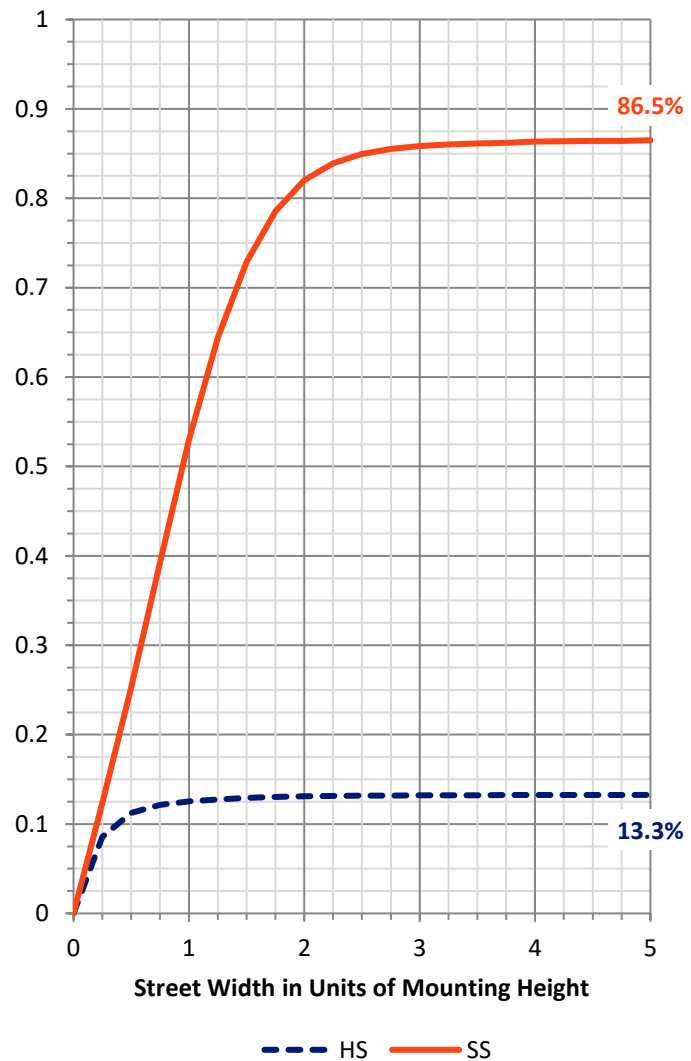
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 565.1    | 0.0    | 565.1  |
|                    | % Fixture | 13.4     | 0.0    | 13.4   |
| <b>Street Side</b> | Lumens    | 3660.8   | 0.0    | 3660.8 |
|                    | % Fixture | 86.6     | 0.0    | 86.6   |
| <b>Total</b>       | Lumens    | 4226.0   | 0.0    | 4226.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.3   | 1.1       |
| 10°-20°   | 123.0  | 2.9       |
| 20°-30°   | 233.1  | 5.5       |
| 30°-40°   | 471.6  | 11.2      |
| 40°-50°   | 803.4  | 19.0      |
| 50°-60°   | 1092.6 | 25.9      |
| 60°-70°   | 1026.0 | 24.3      |
| 70°-80°   | 411.0  | 9.7       |
| 80°-90°   | 19.9   | 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°    | 4226.0 | 100.0     |
| 0°-180°   | 4226.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P938996

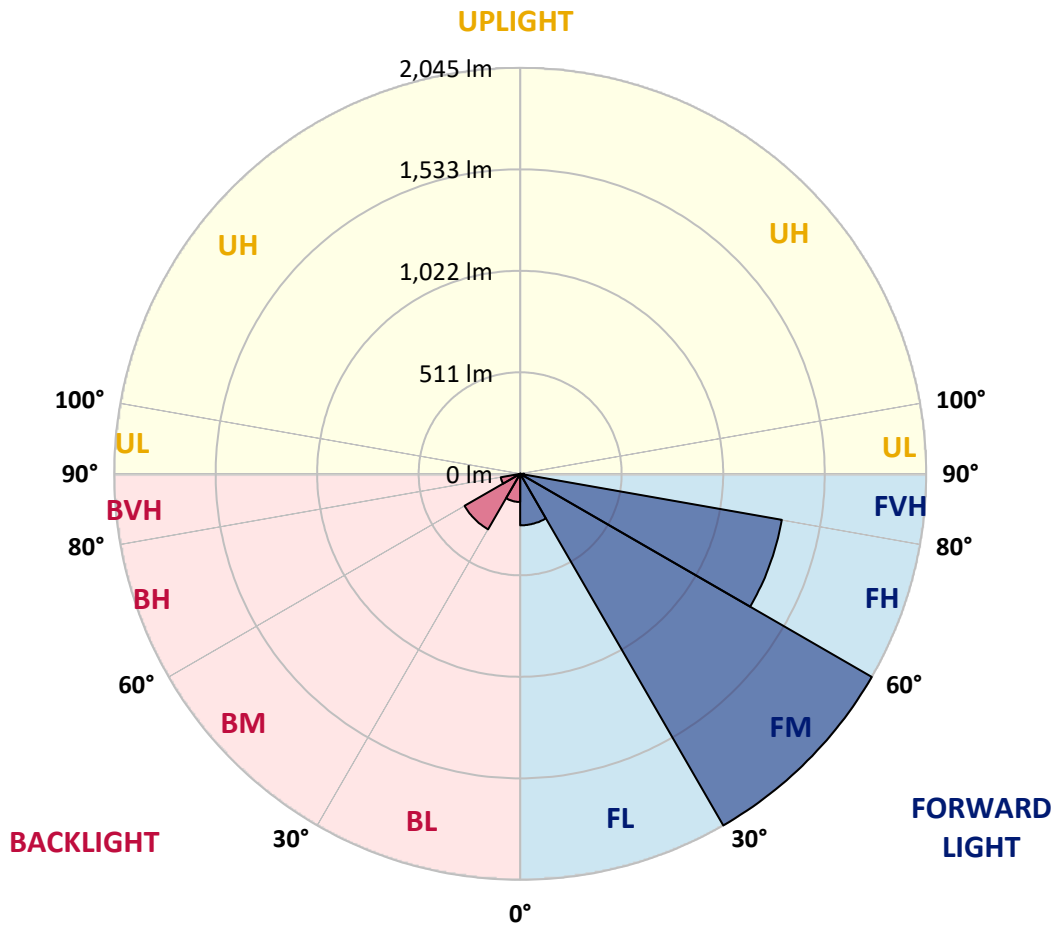
CATALOG NUMBER: GALN-SB1B-850-U-T3-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 259.5  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2044.5 | 48.4      |                         |      |         |
| FH (60°-80°)   | 1337.8 | 31.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 18.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 141.9  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 323.1  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 99.2   | 2.3       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short



REPORT NUMBER: P938996

CATALOG NUMBER: GALN-SB1B-850-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 491.5  | 491.5  | 491.5  | 491.5  | 491.5  | 491.5  | 491.5  | 491.5  | 491.5  | 491.5  |
| 2.5°  | 489.8  | 493.2  | 492.4  | 491.5  | 491.2  | 491.8  | 492.1  | 491.8  | 491.8  | 491.8  |
| 5°    | 480.5  | 483.3  | 483.3  | 485.3  | 488.1  | 491.5  | 494.1  | 494.6  | 495.2  | 496.1  |
| 7.5°  | 462.6  | 464.9  | 466.6  | 473.1  | 480.2  | 489.3  | 496.9  | 500.9  | 501.4  | 504.6  |
| 10°   | 450.4  | 453.3  | 456.1  | 462.9  | 473.1  | 486.7  | 499.7  | 509.4  | 510.8  | 518.2  |
| 12.5° | 449.9  | 452.7  | 456.4  | 463.8  | 475.7  | 490.1  | 506.0  | 519.9  | 522.4  | 533.2  |
| 15°   | 455.8  | 459.2  | 462.6  | 471.7  | 484.4  | 502.0  | 519.0  | 536.3  | 538.8  | 554.1  |
| 17.5° | 468.0  | 472.5  | 475.1  | 484.2  | 497.8  | 517.3  | 539.7  | 559.5  | 561.8  | 579.6  |
| 20°   | 492.1  | 497.5  | 498.3  | 505.7  | 519.0  | 540.0  | 566.6  | 591.2  | 594.1  | 614.5  |
| 22.5° | 542.0  | 549.6  | 542.8  | 546.5  | 558.4  | 579.4  | 608.2  | 639.4  | 643.4  | 666.6  |
| 25°   | 629.8  | 640.5  | 623.0  | 616.7  | 621.8  | 643.7  | 679.9  | 719.3  | 723.8  | 742.5  |
| 27.5° | 802.3  | 788.4  | 761.8  | 735.7  | 720.4  | 732.9  | 773.7  | 822.4  | 828.1  | 846.2  |
| 30°   | 991.8  | 979.7  | 943.7  | 885.9  | 849.6  | 847.6  | 885.3  | 939.7  | 946.2  | 963.5  |
| 32.5° | 1181.6 | 1170.0 | 1130.9 | 1059.8 | 996.9  | 965.8  | 991.8  | 1052.2 | 1055.6 | 1066.6 |
| 35°   | 1368.3 | 1356.4 | 1317.4 | 1244.5 | 1167.2 | 1096.4 | 1091.3 | 1159.3 | 1160.4 | 1172.0 |
| 37.5° | 1556.2 | 1546.3 | 1504.6 | 1433.2 | 1357.0 | 1259.3 | 1212.0 | 1260.7 | 1262.1 | 1273.4 |
| 40°   | 1690.2 | 1694.4 | 1665.8 | 1610.6 | 1545.1 | 1438.3 | 1347.4 | 1368.6 | 1360.1 | 1379.1 |
| 42.5° | 1805.2 | 1813.7 | 1788.8 | 1761.0 | 1723.0 | 1629.0 | 1515.1 | 1511.4 | 1497.8 | 1508.0 |
| 45°   | 1904.6 | 1911.7 | 1889.3 | 1882.8 | 1882.0 | 1816.0 | 1698.4 | 1676.3 | 1657.3 | 1655.3 |
| 47.5° | 1941.2 | 1954.8 | 1964.4 | 1986.2 | 2028.7 | 2001.0 | 1887.9 | 1853.6 | 1832.4 | 1816.8 |
| 50°   | 1955.1 | 1969.5 | 2002.4 | 2065.8 | 2166.4 | 2178.3 | 2076.6 | 2038.1 | 2012.0 | 1983.7 |
| 52.5° | 1936.4 | 1962.1 | 2006.3 | 2113.1 | 2259.0 | 2320.5 | 2257.6 | 2223.9 | 2194.2 | 2148.0 |
| 55°   | 1826.2 | 1851.9 | 1942.3 | 2112.6 | 2305.2 | 2420.2 | 2428.7 | 2413.7 | 2380.3 | 2307.5 |
| 57.5° | 1593.9 | 1632.1 | 1775.2 | 2040.6 | 2304.4 | 2506.1 | 2596.5 | 2607.2 | 2569.8 | 2465.6 |
| 60°   | 1272.0 | 1323.9 | 1498.4 | 1881.1 | 2233.3 | 2552.5 | 2743.5 | 2797.3 | 2757.7 | 2621.4 |
| 62.5° | 887.6  | 947.6  | 1112.8 | 1631.2 | 2070.6 | 2519.1 | 2850.9 | 2950.3 | 2920.3 | 2760.8 |
| 65°   | 541.4  | 560.7  | 693.8  | 1283.6 | 1794.1 | 2379.2 | 2884.0 | 3033.0 | 3023.1 | 2846.0 |
| 67.5° | 360.6  | 376.8  | 415.0  | 880.2  | 1392.7 | 2099.5 | 2804.7 | 3018.6 | 3021.4 | 2832.2 |
| 70°   | 217.3  | 231.2  | 256.1  | 511.9  | 902.6  | 1661.8 | 2559.1 | 2834.4 | 2850.9 | 2646.6 |
| 72.5° | 89.5   | 98.9   | 121.5  | 232.0  | 467.4  | 1054.7 | 2037.8 | 2433.6 | 2471.8 | 2225.3 |
| 75°   | 50.7   | 55.5   | 71.4   | 116.4  | 202.8  | 491.5  | 1234.3 | 1727.6 | 1783.9 | 1533.8 |
| 77.5° | 33.7   | 36.0   | 46.2   | 75.4   | 114.2  | 167.7  | 527.5  | 900.0  | 1007.7 | 837.7  |
| 80°   | 22.7   | 24.6   | 31.7   | 50.4   | 74.2   | 72.0   | 168.0  | 333.4  | 410.2  | 287.8  |
| 82.5° | 15.3   | 15.6   | 22.7   | 33.1   | 47.0   | 34.8   | 49.6   | 103.7  | 130.3  | 83.3   |
| 85°   | 8.8    | 8.5    | 16.7   | 19.3   | 21.0   | 14.4   | 15.0   | 31.2   | 40.8   | 35.1   |
| 87.5° | 1.1    | 1.7    | 6.5    | 5.1    | 2.8    | 3.1    | 3.1    | 5.4    | 7.9    | 8.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P938996  
 CATALOG NUMBER: GALN-SB1B-850-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 491.5  | 0°    | 491.5  | 491.5  | 491.5 | 491.5 | 491.5 | 491.5 | 491.5 | 491.5 | 491.5 | 491.5 |
| 492.1  | 2.5°  | 492.1  | 491.8  | 491.0 | 490.1 | 488.1 | 487.0 | 487.6 | 487.0 | 486.7 | 487.0 |
| 495.8  | 5°    | 495.8  | 494.9  | 492.7 | 489.8 | 485.9 | 481.0 | 477.9 | 473.4 | 469.1 | 466.6 |
| 505.7  | 7.5°  | 505.7  | 504.8  | 501.7 | 493.8 | 481.0 | 460.9 | 442.5 | 426.4 | 414.2 | 407.1 |
| 521.6  | 10°   | 521.6  | 520.1  | 515.3 | 497.8 | 464.3 | 420.4 | 383.9 | 353.6 | 333.7 | 324.4 |
| 540.3  | 12.5° | 540.3  | 538.6  | 530.1 | 494.1 | 432.6 | 364.0 | 313.6 | 279.9 | 261.5 | 253.3 |
| 561.8  | 15°   | 562.4  | 560.1  | 543.4 | 476.5 | 386.4 | 301.7 | 255.5 | 230.3 | 218.4 | 211.1 |
| 589.3  | 17.5° | 589.8  | 585.9  | 553.3 | 450.2 | 336.3 | 254.1 | 219.8 | 200.9 | 190.4 | 183.3 |
| 625.2  | 20°   | 625.5  | 619.0  | 561.2 | 418.7 | 290.1 | 224.1 | 195.8 | 179.9 | 172.0 | 165.7 |
| 676.2  | 22.5° | 675.4  | 666.0  | 570.9 | 384.7 | 257.5 | 203.4 | 177.9 | 166.3 | 159.8 | 152.7 |
| 747.3  | 25°   | 737.1  | 726.1  | 582.8 | 353.3 | 235.1 | 185.6 | 164.9 | 155.2 | 147.6 | 139.4 |
| 840.6  | 27.5° | 823.6  | 803.7  | 596.9 | 327.5 | 215.9 | 170.3 | 153.0 | 142.2 | 133.4 | 126.6 |
| 946.2  | 30°   | 919.9  | 887.3  | 609.4 | 311.9 | 198.3 | 156.1 | 137.4 | 126.6 | 118.4 | 113.6 |
| 1041.1 | 32.5° | 1011.1 | 966.9  | 617.6 | 305.1 | 182.4 | 140.0 | 120.4 | 108.8 | 102.6 | 101.1 |
| 1134.1 | 35°   | 1097.2 | 1038.9 | 616.7 | 298.6 | 168.3 | 123.8 | 103.7 | 91.8  | 87.0  | 87.8  |
| 1234.1 | 37.5° | 1196.4 | 1115.6 | 610.8 | 288.4 | 156.7 | 109.1 | 89.2  | 78.8  | 74.5  | 74.8  |
| 1355.6 | 40°   | 1311.7 | 1204.3 | 607.1 | 269.1 | 143.9 | 95.5  | 77.3  | 68.8  | 65.7  | 64.6  |
| 1483.6 | 42.5° | 1434.6 | 1290.2 | 607.7 | 247.3 | 128.1 | 83.3  | 69.1  | 62.0  | 59.2  | 58.4  |
| 1626.1 | 45°   | 1558.2 | 1372.0 | 608.5 | 224.7 | 111.3 | 73.9  | 63.2  | 57.2  | 55.5  | 54.4  |
| 1770.6 | 47.5° | 1674.3 | 1441.7 | 592.7 | 200.3 | 94.9  | 66.9  | 58.4  | 54.4  | 53.0  | 51.6  |
| 1915.7 | 50°   | 1782.5 | 1488.2 | 554.4 | 172.0 | 81.9  | 61.2  | 54.7  | 51.8  | 50.4  | 49.0  |
| 2047.1 | 52.5° | 1866.7 | 1495.5 | 491.2 | 142.8 | 72.8  | 56.9  | 52.4  | 49.9  | 48.2  | 46.7  |
| 2153.4 | 55°   | 1904.1 | 1449.4 | 401.4 | 115.6 | 65.7  | 53.3  | 50.1  | 47.6  | 45.6  | 44.2  |
| 2236.9 | 57.5° | 1894.4 | 1352.2 | 313.0 | 92.9  | 58.9  | 49.6  | 47.3  | 45.6  | 43.3  | 41.1  |
| 2304.7 | 60°   | 1847.1 | 1222.2 | 236.0 | 77.3  | 52.7  | 45.6  | 44.2  | 42.8  | 39.7  | 36.3  |
| 2330.7 | 62.5° | 1765.3 | 1058.7 | 168.3 | 64.0  | 45.9  | 41.1  | 40.5  | 39.4  | 34.8  | 28.6  |
| 2292.2 | 65°   | 1640.0 | 860.1  | 113.3 | 53.3  | 39.4  | 36.0  | 36.3  | 34.3  | 28.3  | 21.2  |
| 2151.1 | 67.5° | 1457.0 | 628.9  | 72.5  | 43.6  | 32.9  | 30.0  | 30.3  | 29.2  | 24.1  | 18.1  |
| 1883.7 | 70°   | 1223.9 | 416.5  | 47.3  | 33.1  | 26.3  | 23.2  | 24.9  | 25.2  | 20.4  | 14.7  |
| 1445.7 | 72.5° | 897.2  | 245.9  | 33.1  | 24.6  | 19.3  | 16.1  | 20.4  | 21.0  | 16.4  | 11.0  |
| 869.7  | 75°   | 511.4  | 116.7  | 24.9  | 17.8  | 11.9  | 11.3  | 15.9  | 15.9  | 11.3  | 7.4   |
| 376.5  | 77.5° | 214.7  | 48.7   | 17.6  | 11.6  | 6.8   | 6.5   | 10.8  | 9.9   | 5.7   | 3.4   |
| 91.8   | 80°   | 62.0   | 21.8   | 9.3   | 5.7   | 2.8   | 2.5   | 4.2   | 3.1   | 1.4   | 0.6   |
| 34.8   | 82.5° | 24.4   | 9.6    | 3.7   | 2.3   | 1.1   | 1.1   | 0.6   | 0.0   | 0.0   | 0.0   |
| 19.8   | 85°   | 14.4   | 4.0    | 1.7   | 0.8   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4.2    | 87.5° | 3.7    | 0.8    | 0.6   | 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

| <u>180°</u> |
|-------------|
| 491.5       |
| 488.1       |
| 467.2       |
| 407.4       |
| 323.5       |
| 252.4       |
| 211.3       |
| 182.7       |
| 164.6       |
| 151.6       |
| 138.5       |
| 125.2       |
| 112.8       |
| 102.0       |
| 87.8        |
| 75.9        |
| 64.3        |
| 58.1        |
| 54.4        |
| 51.6        |
| 49.0        |
| 46.5        |
| 43.9        |
| 40.8        |
| 35.7        |
| 28.0        |
| 20.7        |
| 17.3        |
| 14.2        |
| 10.5        |
| 6.8         |
| 3.4         |
| 0.6         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

F REPORT)