

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: P946440

Luminaire Tested: **GALN-SB2A-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2A-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

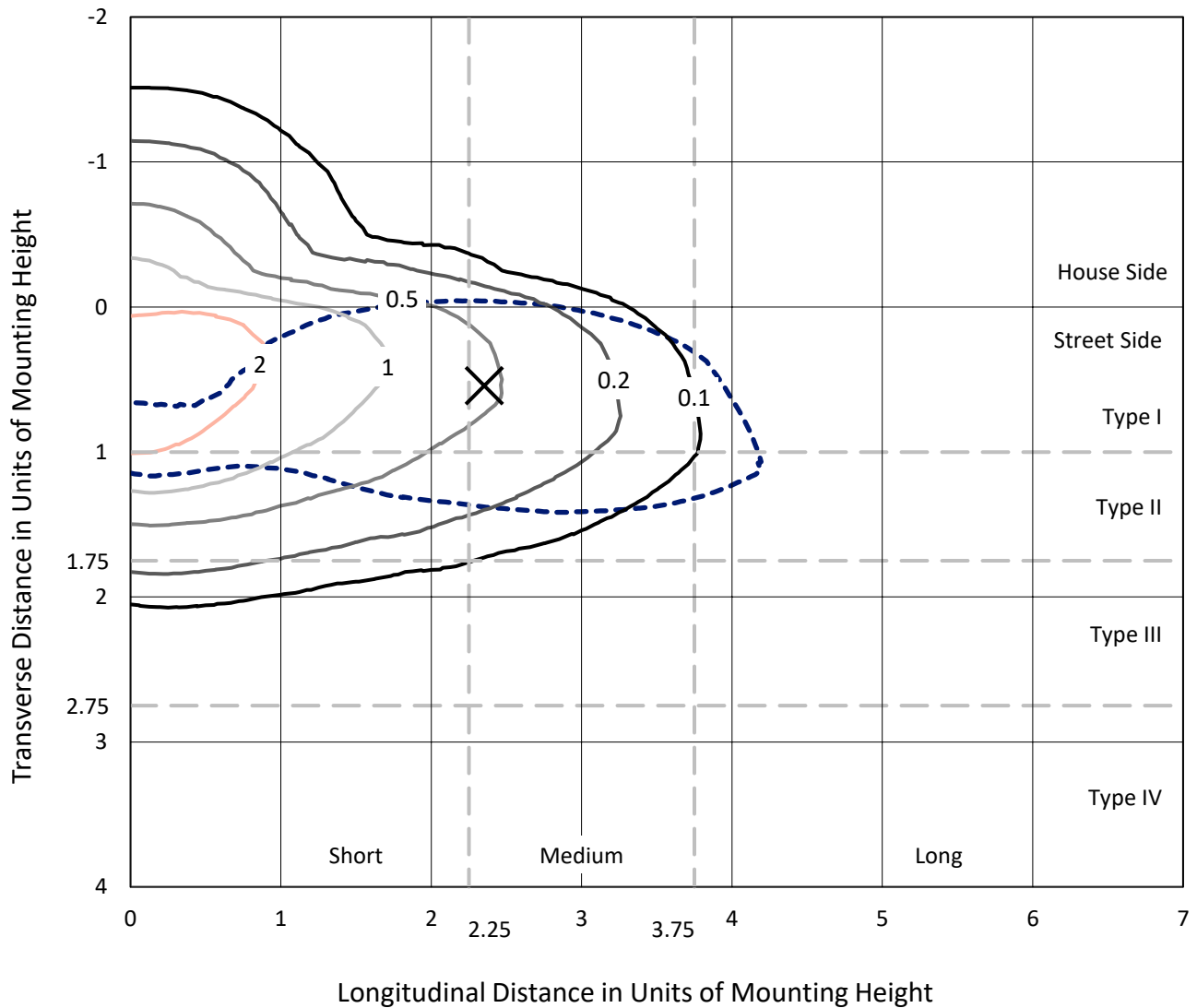
Lumens per Lamp: N/A  
Luminaire Lumens: 8210 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946440  
 CATALOG NUMBER: GALN-SB2A-830-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

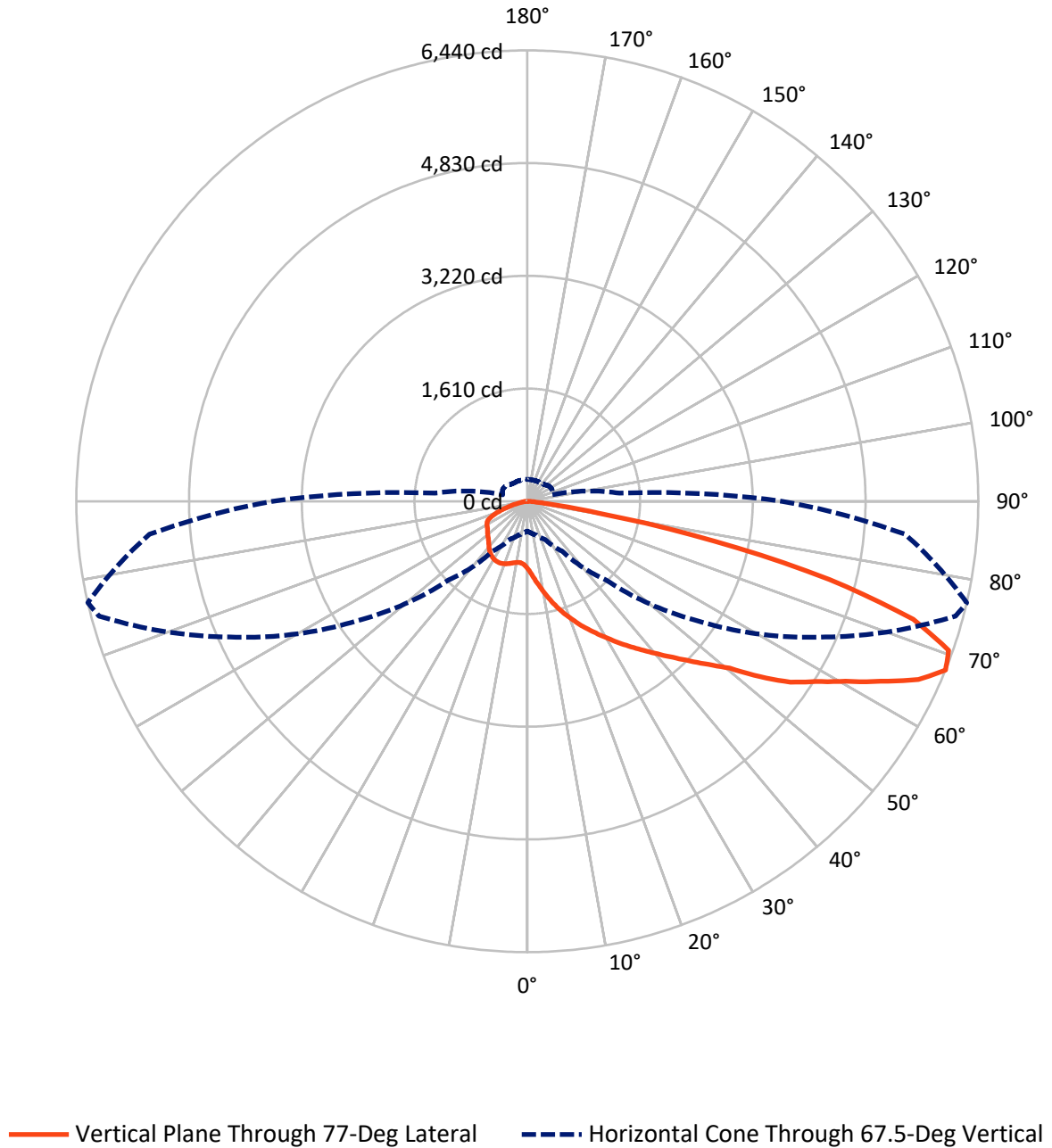
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P946440  
CATALOG NUMBER: GALN-SB2A-830-U-T2R

### Luminous Intensity Polar Plot



REPORT NUMBER: P946440  
 CATALOG NUMBER: GALN-SB2A-830-U-T2R

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1553.0   | 0.0    | 1553.0 |
|                    | % Fixture | 18.9     | 0.0    | 18.9   |
| <b>Street Side</b> | Lumens    | 6657.0   | 0.0    | 6657.0 |
|                    | % Fixture | 81.1     | 0.0    | 81.1   |
| <b>Total</b>       | Lumens    | 8210.0   | 0.0    | 8210.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.3  | 1.3       |
| 10°-20°   | 370.9  | 4.5       |
| 20°-30°   | 700.4  | 8.5       |
| 30°-40°   | 1128.3 | 13.7      |
| 40°-50°   | 1543.3 | 18.8      |
| 50°-60°   | 1740.8 | 21.2      |
| 60°-70°   | 1624.9 | 19.8      |
| 70°-80°   | 890.7  | 10.8      |
| 80°-90°   | 107.4  | 1.3       |
| 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°    | 8210.0 | 100.0     |
| 0°-180°   | 8210.0 | 100.0     |

**Coefficient of Utilization**



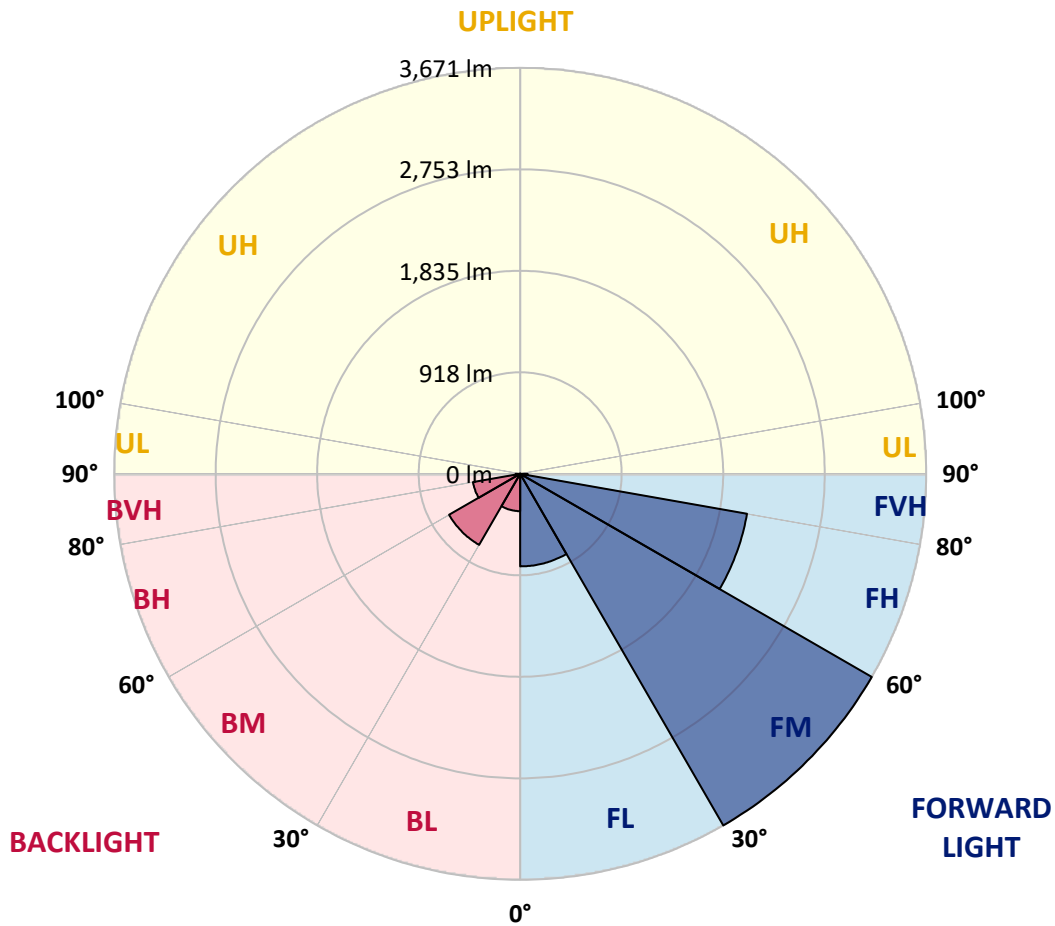
REPORT NUMBER: P946440  
 CATALOG NUMBER: GALN-SB2A-830-U-T2R

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 836.9  | 10.2      |                         |      |         |
| FM (30°-60°)   | 3670.6 | 44.7      |                         |      |         |
| FH (60°-80°)   | 2082.3 | 25.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 67.2   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 337.7  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 741.8  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 433.3  | 5.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 40.2   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Medium



REPORT NUMBER: P946440  
 CATALOG NUMBER: GALN-SB2A-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  | 963.3  |
| 2.5°  | 1206.1 | 1214.6 | 1204.0 | 1204.0 | 1168.4 | 1149.8 | 1114.2 | 1087.0 | 1038.3 | 1029.8 |
| 5°    | 1425.6 | 1436.2 | 1421.4 | 1415.1 | 1373.1 | 1334.5 | 1274.8 | 1215.9 | 1129.0 | 1120.1 |
| 7.5°  | 1595.6 | 1609.2 | 1596.0 | 1589.2 | 1551.9 | 1508.7 | 1438.8 | 1356.6 | 1234.1 | 1216.7 |
| 10°   | 1734.2 | 1736.3 | 1732.1 | 1734.6 | 1705.4 | 1669.8 | 1598.1 | 1502.4 | 1349.4 | 1325.6 |
| 12.5° | 1812.6 | 1822.3 | 1830.8 | 1846.1 | 1841.0 | 1818.9 | 1754.5 | 1640.1 | 1471.4 | 1440.9 |
| 15°   | 1849.4 | 1866.4 | 1885.5 | 1920.6 | 1949.0 | 1954.5 | 1905.4 | 1788.0 | 1595.6 | 1558.7 |
| 17.5° | 1862.6 | 1878.7 | 1908.8 | 1959.6 | 2020.7 | 2061.8 | 2039.7 | 1931.7 | 1718.5 | 1676.1 |
| 20°   | 1929.1 | 1933.8 | 1952.0 | 2000.3 | 2066.4 | 2134.7 | 2151.2 | 2069.8 | 1840.1 | 1792.2 |
| 22.5° | 2071.5 | 2062.2 | 2067.3 | 2089.3 | 2136.8 | 2202.9 | 2240.6 | 2191.9 | 1965.1 | 1910.0 |
| 25°   | 2306.7 | 2279.6 | 2252.5 | 2227.0 | 2251.2 | 2288.5 | 2331.3 | 2313.9 | 2096.1 | 2026.2 |
| 27.5° | 2603.8 | 2570.7 | 2511.0 | 2427.5 | 2398.3 | 2411.4 | 2430.5 | 2427.1 | 2217.3 | 2146.5 |
| 30°   | 2896.2 | 2857.7 | 2786.5 | 2665.7 | 2588.5 | 2553.8 | 2539.4 | 2529.6 | 2349.1 | 2273.7 |
| 32.5° | 3129.7 | 3099.2 | 3029.3 | 2894.1 | 2782.2 | 2722.9 | 2675.0 | 2640.2 | 2486.8 | 2411.4 |
| 35°   | 3334.0 | 3305.6 | 3225.5 | 3078.0 | 2956.4 | 2893.3 | 2830.5 | 2756.4 | 2630.1 | 2553.8 |
| 37.5° | 3520.5 | 3492.1 | 3382.3 | 3228.9 | 3106.4 | 3062.8 | 3006.8 | 2881.0 | 2773.7 | 2701.7 |
| 40°   | 3638.3 | 3631.9 | 3529.4 | 3355.6 | 3228.5 | 3206.9 | 3188.2 | 3025.5 | 2933.1 | 2866.1 |
| 42.5° | 3668.4 | 3682.4 | 3601.0 | 3458.2 | 3337.0 | 3319.6 | 3363.2 | 3189.1 | 3111.9 | 3047.9 |
| 45°   | 3595.9 | 3636.2 | 3582.8 | 3485.7 | 3414.1 | 3404.8 | 3518.4 | 3367.9 | 3309.8 | 3251.4 |
| 47.5° | 3412.4 | 3480.6 | 3458.6 | 3445.0 | 3434.9 | 3475.1 | 3654.8 | 3557.8 | 3534.0 | 3483.2 |
| 50°   | 3042.0 | 3171.3 | 3209.8 | 3295.4 | 3393.8 | 3529.8 | 3779.0 | 3765.0 | 3795.9 | 3744.7 |
| 52.5° | 2401.7 | 2579.6 | 2803.4 | 3017.9 | 3267.5 | 3511.6 | 3915.5 | 4062.5 | 4193.0 | 4165.1 |
| 55°   | 1982.5 | 2062.6 | 2234.7 | 2628.0 | 3022.5 | 3434.9 | 3976.9 | 4302.8 | 4587.2 | 4562.2 |
| 57.5° | 1660.4 | 1732.1 | 1838.0 | 2166.4 | 2652.1 | 3260.7 | 4015.0 | 4449.4 | 4857.1 | 4854.6 |
| 60°   | 1315.0 | 1390.9 | 1499.4 | 1732.1 | 2219.4 | 2959.8 | 4006.6 | 4616.4 | 5201.7 | 5222.9 |
| 62.5° | 925.1  | 1008.6 | 1129.0 | 1346.0 | 1777.4 | 2569.9 | 3833.7 | 4737.2 | 5607.2 | 5664.9 |
| 65°   | 608.1  | 663.2  | 753.9  | 941.3  | 1324.4 | 2068.5 | 3503.5 | 4752.9 | 6041.2 | 6138.7 |
| 67.5° | 426.3  | 447.5  | 500.9  | 602.6  | 873.0  | 1586.3 | 2977.6 | 4590.6 | 6330.7 | 6440.4 |
| 70°   | 332.7  | 343.3  | 370.4  | 411.1  | 548.4  | 1066.7 | 2281.7 | 4168.5 | 6268.8 | 6383.2 |
| 72.5° | 287.3  | 297.5  | 307.7  | 312.8  | 367.9  | 658.6  | 1545.6 | 3485.3 | 5686.1 | 5763.6 |
| 75°   | 260.6  | 263.2  | 271.7  | 270.0  | 280.6  | 427.2  | 892.1  | 2539.4 | 4486.3 | 4459.6 |
| 77.5° | 219.1  | 222.5  | 236.5  | 234.4  | 249.2  | 292.0  | 463.2  | 1638.8 | 2908.5 | 2727.1 |
| 80°   | 185.6  | 187.3  | 202.6  | 200.0  | 216.6  | 211.5  | 236.5  | 835.3  | 1233.7 | 1045.1 |
| 82.5° | 64.4   | 79.7   | 154.7  | 159.3  | 165.3  | 128.0  | 136.5  | 340.7  | 376.8  | 288.6  |
| 85°   | 31.4   | 33.5   | 78.8   | 111.9  | 111.5  | 64.4   | 66.5   | 121.6  | 118.7  | 93.2   |
| 87.5° | 5.1    | 6.4    | 9.3    | 43.7   | 34.8   | 17.0   | 22.9   | 23.7   | 24.6   | 21.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P946440  
 CATALOG NUMBER: GALN-SB2A-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 963.3  | 0°    | 963.3  | 963.3  | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 | 963.3 |
| 997.6  | 2.5°  | 973.9  | 952.7  | 908.2 | 867.1 | 834.9 | 803.9 | 786.6 | 771.7 | 763.3 | 761.6 |
| 1044.2 | 5°    | 1000.2 | 956.5  | 875.6 | 807.3 | 762.8 | 729.8 | 712.4 | 701.4 | 695.9 | 692.5 |
| 1107.0 | 7.5°  | 1037.9 | 973.9  | 858.6 | 781.1 | 734.4 | 710.7 | 701.8 | 700.1 | 699.7 | 700.1 |
| 1182.8 | 10°   | 1090.0 | 1002.3 | 856.9 | 774.7 | 735.7 | 722.6 | 722.1 | 722.6 | 724.3 | 724.7 |
| 1265.5 | 12.5° | 1146.4 | 1031.5 | 863.7 | 780.2 | 751.8 | 744.6 | 743.3 | 742.9 | 744.2 | 745.0 |
| 1348.9 | 15°   | 1207.8 | 1070.1 | 875.1 | 792.1 | 769.6 | 762.0 | 760.7 | 758.2 | 757.7 | 757.3 |
| 1436.7 | 17.5° | 1271.0 | 1108.2 | 887.9 | 804.8 | 781.1 | 770.5 | 765.8 | 759.9 | 755.2 | 753.9 |
| 1527.4 | 20°   | 1335.0 | 1145.9 | 896.8 | 811.1 | 781.9 | 767.1 | 757.7 | 747.6 | 739.5 | 734.9 |
| 1618.9 | 22.5° | 1403.2 | 1185.4 | 902.3 | 809.5 | 774.3 | 753.9 | 737.0 | 725.1 | 712.8 | 704.8 |
| 1711.3 | 25°   | 1469.7 | 1219.7 | 901.8 | 800.6 | 759.4 | 733.6 | 712.0 | 696.7 | 679.8 | 671.3 |
| 1806.6 | 27.5° | 1533.7 | 1250.6 | 891.2 | 784.9 | 738.3 | 709.4 | 683.6 | 665.4 | 648.8 | 640.8 |
| 1902.8 | 30°   | 1599.8 | 1276.5 | 874.7 | 762.0 | 713.2 | 681.5 | 653.1 | 637.4 | 622.6 | 614.9 |
| 2004.6 | 32.5° | 1665.5 | 1300.2 | 851.4 | 733.6 | 684.4 | 653.9 | 625.9 | 611.5 | 602.6 | 602.6 |
| 2113.9 | 35°   | 1735.0 | 1316.7 | 820.5 | 700.5 | 653.9 | 624.7 | 602.6 | 594.2 | 593.3 | 588.2 |
| 2229.6 | 37.5° | 1808.3 | 1327.3 | 782.8 | 666.6 | 623.8 | 596.3 | 589.5 | 579.3 | 570.9 | 559.8 |
| 2356.7 | 40°   | 1885.5 | 1337.9 | 737.4 | 631.5 | 592.0 | 576.8 | 573.8 | 560.3 | 536.1 | 509.0 |
| 2500.8 | 42.5° | 1979.1 | 1345.1 | 690.4 | 596.3 | 558.6 | 553.5 | 557.7 | 534.4 | 495.8 | 475.5 |
| 2674.6 | 45°   | 2087.6 | 1357.0 | 647.1 | 561.5 | 524.2 | 524.2 | 542.0 | 511.5 | 479.7 | 467.0 |
| 2872.9 | 47.5° | 2228.3 | 1384.5 | 606.9 | 523.4 | 492.5 | 500.9 | 507.3 | 484.0 | 466.2 | 450.5 |
| 3114.5 | 50°   | 2431.7 | 1450.7 | 565.3 | 484.8 | 468.3 | 485.2 | 476.3 | 462.8 | 442.0 | 429.3 |
| 3498.4 | 52.5° | 2684.3 | 1489.6 | 528.5 | 450.1 | 447.5 | 464.5 | 451.8 | 439.1 | 423.4 | 406.4 |
| 3789.6 | 55°   | 2856.4 | 1496.8 | 497.5 | 424.6 | 433.5 | 431.8 | 427.2 | 415.7 | 407.3 | 384.8 |
| 4076.9 | 57.5° | 3048.8 | 1511.3 | 472.1 | 409.4 | 424.6 | 406.0 | 404.3 | 394.6 | 383.5 | 368.3 |
| 4427.4 | 60°   | 3278.9 | 1533.7 | 450.1 | 403.5 | 417.0 | 389.0 | 380.6 | 376.8 | 365.7 | 358.1 |
| 4849.1 | 62.5° | 3529.8 | 1554.1 | 427.6 | 404.3 | 408.1 | 372.5 | 359.8 | 358.5 | 351.8 | 349.2 |
| 5244.9 | 65°   | 3701.0 | 1498.5 | 399.6 | 403.5 | 394.1 | 355.6 | 339.5 | 339.0 | 333.5 | 332.7 |
| 5416.5 | 67.5° | 3641.3 | 1322.7 | 361.9 | 391.6 | 379.7 | 338.6 | 320.8 | 319.1 | 311.9 | 312.3 |
| 5237.3 | 70°   | 3342.1 | 1071.8 | 309.8 | 362.3 | 361.9 | 323.4 | 301.3 | 295.8 | 286.1 | 287.8 |
| 4553.7 | 72.5° | 2780.9 | 794.2  | 239.9 | 313.6 | 333.5 | 309.4 | 278.9 | 270.0 | 257.7 | 259.4 |
| 3361.5 | 75°   | 2008.4 | 539.9  | 174.6 | 238.6 | 290.3 | 292.8 | 256.8 | 241.6 | 226.7 | 229.3 |
| 1871.1 | 77.5° | 1027.7 | 306.0  | 128.4 | 164.4 | 228.0 | 266.1 | 236.9 | 216.6 | 213.2 | 236.9 |
| 539.5  | 80°   | 335.2  | 153.4  | 89.0  | 115.3 | 149.6 | 217.8 | 207.7 | 184.4 | 183.5 | 189.0 |
| 113.2  | 82.5° | 100.0  | 64.8   | 57.2  | 75.9  | 82.6  | 167.0 | 179.3 | 139.4 | 119.9 | 126.3 |
| 37.7   | 85°   | 34.3   | 31.4   | 32.6  | 37.7  | 39.4  | 97.9  | 125.4 | 92.4  | 87.3  | 96.2  |
| 8.5    | 87.5° | 8.1    | 11.0   | 9.3   | 8.5   | 8.5   | 23.7  | 48.7  | 38.6  | 53.4  | 35.6  |
| 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> |
|-------------|
| 963.3       |
| 761.6       |
| 692.1       |
| 701.4       |
| 725.1       |
| 745.5       |
| 756.9       |
| 755.2       |
| 736.6       |
| 705.2       |
| 671.3       |
| 640.4       |
| 614.5       |
| 603.1       |
| 587.0       |
| 558.1       |
| 505.2       |
| 475.9       |
| 469.1       |
| 450.1       |
| 428.0       |
| 403.0       |
| 385.2       |
| 363.2       |
| 360.2       |
| 349.2       |
| 332.3       |
| 312.3       |
| 289.5       |
| 258.9       |
| 230.1       |
| 233.5       |
| 162.3       |
| 130.5       |
| 94.9        |
| 34.3        |
| 0.0         |

F REPORT)