

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: P648278

Luminaire Tested: **GALN-SA2B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5285.2 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

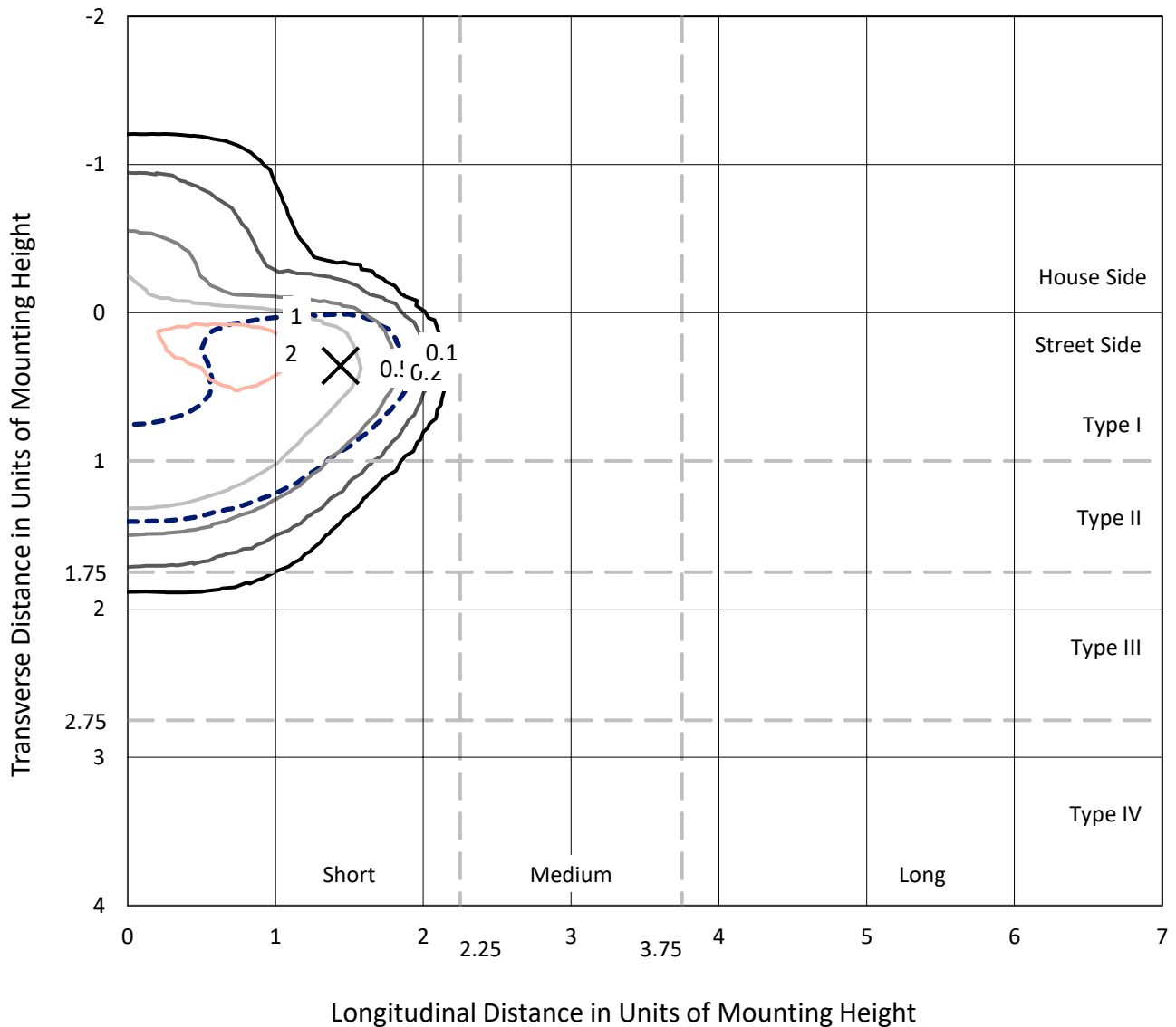
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648278  
 CATALOG NUMBER: GALN-SA2B-835-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

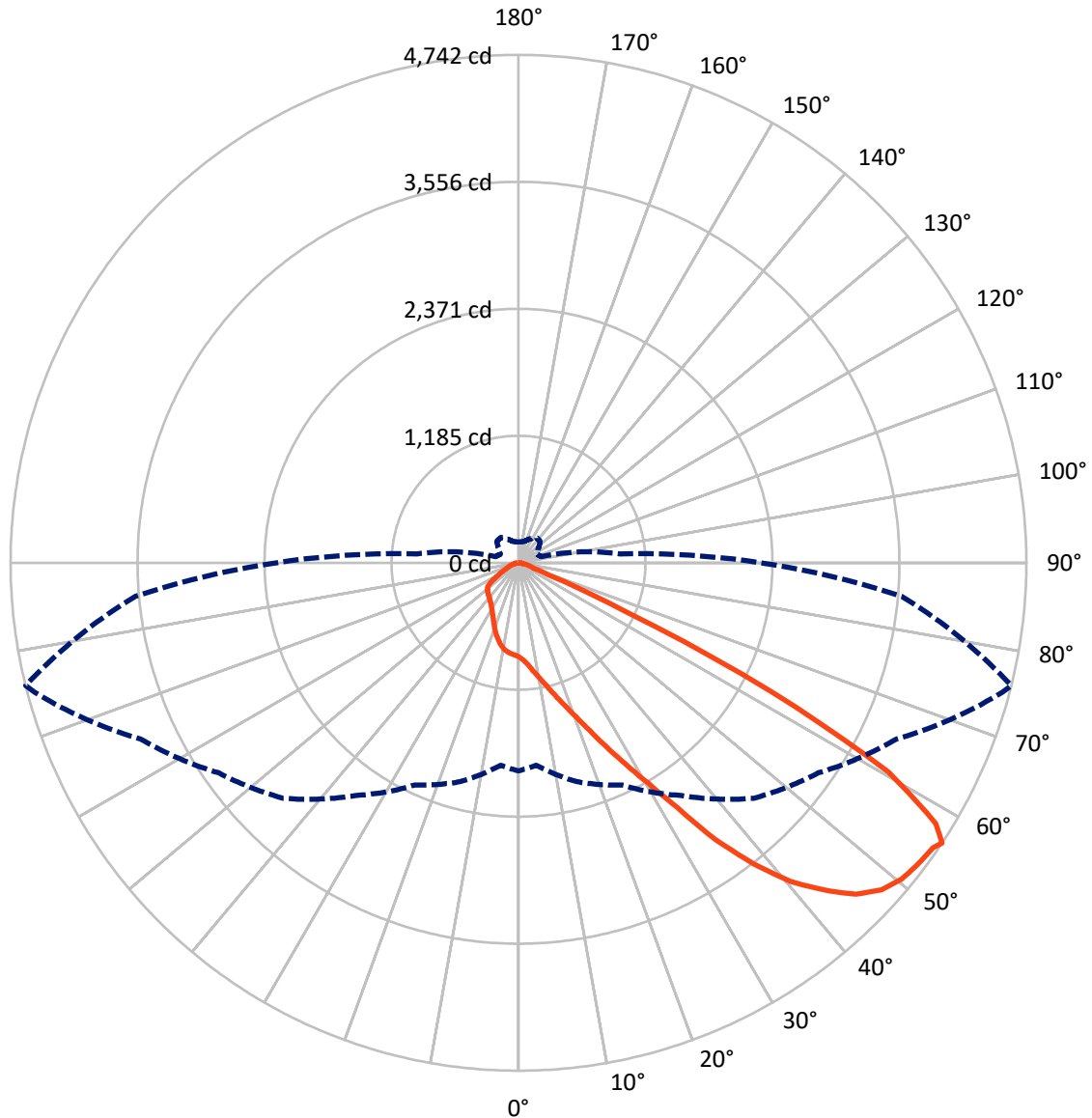
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P648278  
CATALOG NUMBER: GALN-SA2B-835-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648278  
 CATALOG NUMBER: GALN-SA2B-835-U-T2-GRSBK

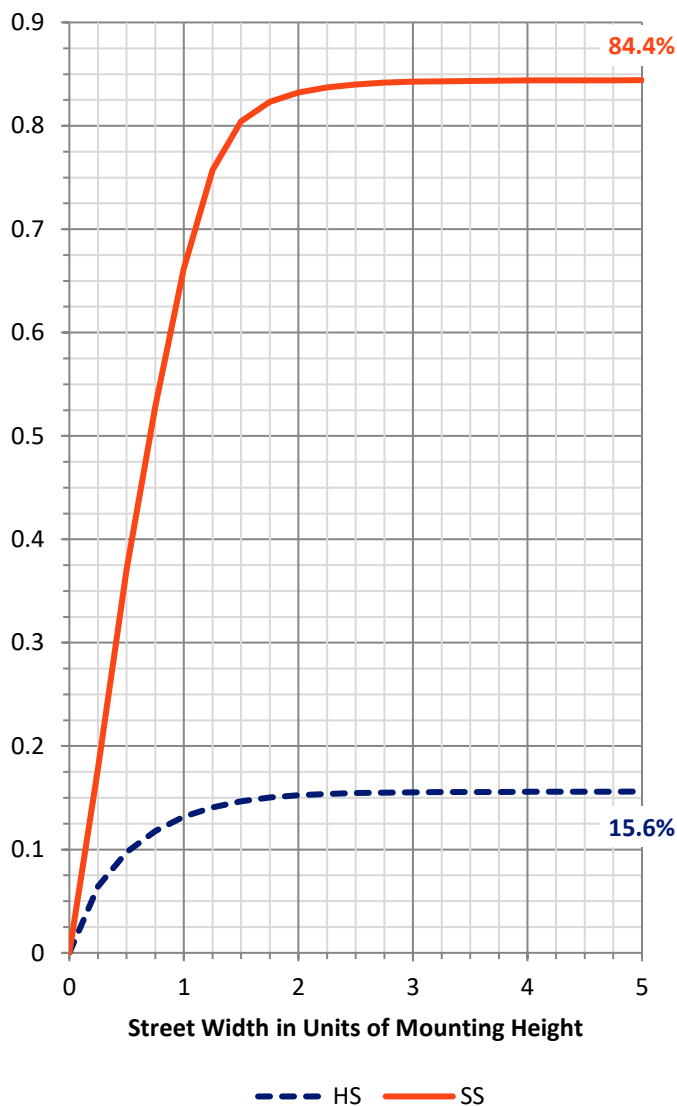
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 830.3    | 0.0    | 830.3  |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 4455.0   | 0.0    | 4455.0 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 5285.2   | 0.0    | 5285.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 88.6   | 1.7       |
| 10°-20°   | 284.7  | 5.4       |
| 20°-30°   | 516.2  | 9.8       |
| 30°-40°   | 890.3  | 16.8      |
| 40°-50°   | 1446.3 | 27.4      |
| 50°-60°   | 1524.5 | 28.8      |
| 60°-70°   | 465.8  | 8.8       |
| 70°-80°   | 59.7   | 1.1       |
| 80°-90°   | 9.1    | 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°    | 5285.2 | 100.0     |
| 0°-180°   | 5285.2 | 100.0     |

**Coefficient of Utilization**

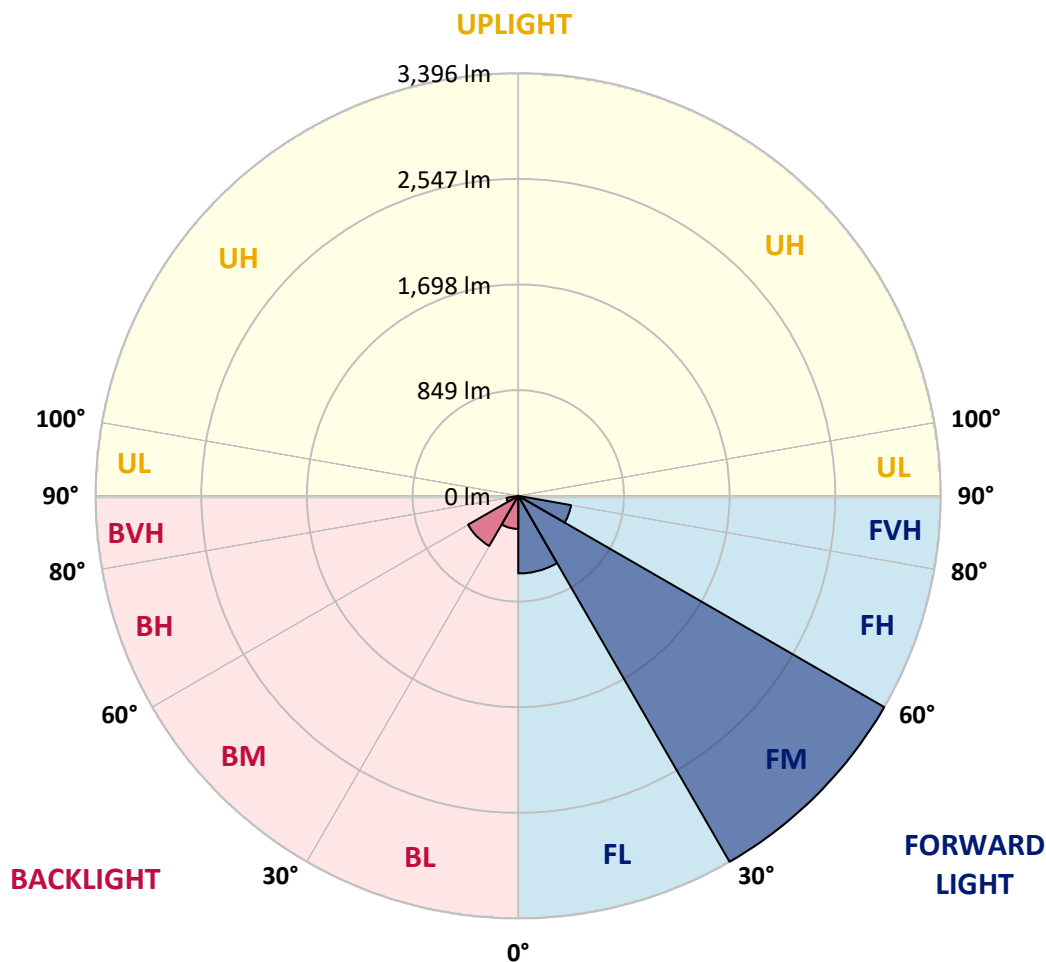


REPORT NUMBER: P648278  
 CATALOG NUMBER: GALN-SA2B-835-U-T2-GRSBK

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 624.0  | 11.8      |                         |      |        |
| FM (30°-60°)   | 3395.8 | 64.3      |                         |      |        |
| FH (60°-80°)   | 430.8  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 4.4    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 265.6  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 465.3  | 8.8       | B1/1000                 |      |        |
| BH (60°-80°)   | 94.7   | 1.8       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 4.6    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**  
 Type II Short





REPORT NUMBER: P648278

CATALOG NUMBER: GALN-SA2B-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  | 879.7  |
| 2.5°  | 1013.2 | 989.8  | 990.8  | 988.9  | 986.0  | 975.2  | 943.0  | 938.2  | 916.7  | 910.9  | 891.4  |
| 5°    | 1135.0 | 1114.5 | 1126.2 | 1108.6 | 1092.1 | 1082.3 | 1029.8 | 1005.5 | 971.3  | 958.6  | 931.4  |
| 7.5°  | 1211.0 | 1201.2 | 1197.4 | 1198.3 | 1182.7 | 1158.4 | 1135.0 | 1081.4 | 1035.6 | 1025.9 | 968.4  |
| 10°   | 1248.0 | 1242.2 | 1248.0 | 1245.0 | 1251.9 | 1254.8 | 1213.9 | 1181.8 | 1114.5 | 1098.0 | 1008.3 |
| 12.5° | 1256.8 | 1268.5 | 1273.3 | 1286.0 | 1302.5 | 1330.8 | 1327.9 | 1284.0 | 1194.4 | 1183.7 | 1069.7 |
| 15°   | 1278.2 | 1288.0 | 1283.1 | 1303.5 | 1334.7 | 1382.5 | 1407.8 | 1400.9 | 1304.5 | 1285.1 | 1140.8 |
| 17.5° | 1297.7 | 1280.1 | 1296.7 | 1337.6 | 1368.8 | 1441.9 | 1503.3 | 1531.5 | 1424.4 | 1402.0 | 1206.1 |
| 20°   | 1324.0 | 1319.1 | 1316.2 | 1336.7 | 1392.2 | 1489.6 | 1611.4 | 1663.0 | 1558.8 | 1535.4 | 1299.6 |
| 22.5° | 1403.8 | 1404.9 | 1402.9 | 1372.7 | 1412.6 | 1522.7 | 1705.9 | 1833.6 | 1719.5 | 1700.0 | 1405.8 |
| 25°   | 1509.1 | 1496.5 | 1486.7 | 1462.3 | 1457.5 | 1552.9 | 1801.4 | 2042.0 | 1912.4 | 1898.8 | 1520.8 |
| 27.5° | 1620.2 | 1620.2 | 1590.9 | 1568.5 | 1537.3 | 1627.9 | 1889.1 | 2244.6 | 2145.3 | 2126.8 | 1621.1 |
| 30°   | 1741.0 | 1747.8 | 1743.9 | 1696.1 | 1676.6 | 1709.8 | 1978.6 | 2503.8 | 2412.2 | 2388.9 | 1786.7 |
| 32.5° | 1919.3 | 1904.6 | 1921.2 | 1881.2 | 1823.8 | 1853.0 | 2120.0 | 2735.6 | 2759.1 | 2725.9 | 2004.0 |
| 35°   | 2155.1 | 2146.3 | 2135.6 | 2070.3 | 2002.1 | 2025.5 | 2319.6 | 3021.1 | 3194.6 | 3178.0 | 2223.3 |
| 37.5° | 2366.5 | 2361.5 | 2352.8 | 2308.0 | 2229.0 | 2257.3 | 2546.6 | 3318.3 | 3619.3 | 3564.8 | 2533.0 |
| 40°   | 2588.5 | 2614.8 | 2586.6 | 2546.6 | 2474.6 | 2536.9 | 2813.6 | 3494.6 | 3976.9 | 3910.6 | 2769.8 |
| 42.5° | 2889.6 | 2869.1 | 2881.8 | 2808.7 | 2769.8 | 2838.0 | 3081.5 | 3670.9 | 4254.5 | 4175.6 | 3021.1 |
| 45°   | 3210.1 | 3211.1 | 3177.0 | 3153.6 | 3052.3 | 3126.4 | 3246.2 | 3768.3 | 4475.6 | 4414.2 | 3211.1 |
| 47.5° | 3415.7 | 3414.7 | 3451.7 | 3488.7 | 3384.5 | 3311.5 | 3358.2 | 3860.9 | 4589.6 | 4561.4 | 3280.3 |
| 50°   | 3383.5 | 3393.3 | 3441.1 | 3579.3 | 3633.9 | 3535.5 | 3463.4 | 3833.6 | 4641.3 | 4638.3 | 3339.7 |
| 52.5° | 2943.1 | 2975.3 | 3055.2 | 3254.9 | 3529.7 | 3651.4 | 3573.5 | 3884.3 | 4666.6 | 4671.5 | 3428.4 |
| 55°   | 2240.7 | 2258.3 | 2410.2 | 2652.9 | 2956.8 | 3373.8 | 3529.7 | 3924.2 | 4686.1 | 4694.9 | 3535.5 |
| 56°   | 1943.6 | 1896.8 | 2116.1 | 2288.5 | 2651.9 | 3107.8 | 3418.6 | 3893.1 | 4674.4 | 4741.6 | 3589.1 |
| 57.5° | 1467.2 | 1436.0 | 1613.4 | 1828.6 | 2178.4 | 2659.7 | 3073.7 | 3746.0 | 4595.5 | 4594.5 | 3512.1 |
| 60°   | 892.4  | 861.2  | 997.6  | 1124.3 | 1320.1 | 1637.7 | 2077.1 | 2983.2 | 3885.2 | 3967.1 | 2843.8 |
| 62.5° | 531.0  | 550.4  | 684.9  | 761.9  | 825.2  | 858.3  | 1074.6 | 1773.1 | 2592.4 | 2650.9 | 1764.3 |
| 65°   | 353.7  | 360.5  | 461.8  | 588.4  | 616.7  | 491.0  | 437.5  | 718.0  | 1124.3 | 1088.2 | 727.7  |
| 67.5° | 218.2  | 233.8  | 309.8  | 442.3  | 490.1  | 358.5  | 207.5  | 267.9  | 309.8  | 309.8  | 210.5  |
| 70°   | 132.5  | 140.3  | 206.6  | 301.1  | 336.1  | 230.9  | 151.0  | 151.0  | 149.1  | 146.1  | 125.7  |
| 72.5° | 63.3   | 68.2   | 105.2  | 154.9  | 157.9  | 121.8  | 116.9  | 127.6  | 124.7  | 123.7  | 104.2  |
| 75°   | 27.2   | 29.2   | 37.0   | 48.7   | 55.5   | 51.6   | 71.1   | 91.6   | 94.5   | 91.6   | 75.0   |
| 77.5° | 8.8    | 9.7    | 13.6   | 17.5   | 18.5   | 22.4   | 30.2   | 38.0   | 43.8   | 41.0   | 37.0   |
| 80°   | 0.9    | 2.0    | 3.9    | 8.8    | 13.6   | 17.5   | 22.4   | 25.4   | 28.3   | 28.3   | 26.3   |
| 82.5° | 0.9    | 0.9    | 3.9    | 7.8    | 12.7   | 16.6   | 21.5   | 24.4   | 28.3   | 29.2   | 27.2   |
| 85°   | 0.0    | 0.9    | 2.9    | 6.8    | 10.7   | 10.7   | 9.7    | 9.7    | 6.8    | 6.8    | 6.8    |
| 87.5° | 0.0    | 0.0    | 0.9    | 0.9    | 0.9    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P648278

CATALOG NUMBER: GALN-SA2B-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 879.7  | 879.7 | 879.7 | 879.7 | 879.7 | 879.7 | 879.7 | 879.7 | 879.7 | 879.7 | 879.7 |
| 2.5°  | 887.5  | 885.6 | 859.3 | 842.7 | 834.0 | 816.4 | 805.7 | 797.9 | 792.1 | 785.3 | 786.2 |
| 5°    | 899.2  | 892.4 | 848.5 | 818.4 | 782.3 | 762.8 | 746.3 | 732.7 | 723.9 | 721.9 | 718.0 |
| 7.5°  | 932.3  | 896.3 | 830.1 | 775.5 | 729.7 | 710.3 | 695.6 | 686.8 | 690.8 | 682.0 | 688.8 |
| 10°   | 957.7  | 904.1 | 807.7 | 728.7 | 682.9 | 668.3 | 660.5 | 667.4 | 677.1 | 673.2 | 668.3 |
| 12.5° | 988.9  | 911.9 | 771.6 | 684.0 | 641.0 | 630.3 | 643.9 | 656.6 | 676.1 | 684.0 | 674.2 |
| 15°   | 1023.9 | 920.7 | 725.8 | 632.3 | 605.0 | 613.8 | 637.1 | 659.5 | 679.0 | 688.8 | 694.6 |
| 17.5° | 1066.8 | 917.8 | 681.0 | 591.4 | 570.9 | 596.3 | 624.5 | 645.0 | 674.2 | 688.8 | 684.9 |
| 20°   | 1106.8 | 908.0 | 631.3 | 550.4 | 551.4 | 574.8 | 598.2 | 631.3 | 646.9 | 666.4 | 659.5 |
| 22.5° | 1144.7 | 890.4 | 579.7 | 522.2 | 522.2 | 558.2 | 569.9 | 591.4 | 605.0 | 614.7 | 613.8 |
| 25°   | 1198.3 | 857.3 | 536.8 | 494.9 | 506.6 | 530.0 | 539.7 | 546.5 | 540.7 | 548.5 | 549.5 |
| 27.5° | 1236.3 | 823.2 | 501.7 | 470.6 | 492.0 | 509.5 | 506.6 | 502.7 | 489.1 | 478.3 | 485.1 |
| 30°   | 1277.2 | 783.3 | 471.5 | 454.0 | 465.7 | 481.3 | 469.6 | 457.9 | 436.4 | 418.9 | 419.9 |
| 32.5° | 1335.7 | 764.8 | 445.2 | 434.5 | 450.1 | 452.0 | 439.4 | 421.9 | 400.4 | 383.8 | 382.9 |
| 35°   | 1444.8 | 753.1 | 422.8 | 421.9 | 424.8 | 425.7 | 413.1 | 391.7 | 382.9 | 369.3 | 374.1 |
| 37.5° | 1553.9 | 747.2 | 407.2 | 403.3 | 402.4 | 403.3 | 388.8 | 368.2 | 384.8 | 383.8 | 385.8 |
| 40°   | 1693.2 | 773.5 | 384.8 | 380.0 | 380.9 | 380.9 | 362.5 | 356.6 | 385.8 | 388.8 | 389.7 |
| 42.5° | 1834.5 | 806.6 | 370.2 | 354.6 | 358.5 | 358.5 | 348.7 | 341.9 | 362.5 | 343.0 | 340.0 |
| 45°   | 1957.3 | 855.3 | 354.6 | 329.3 | 339.0 | 343.9 | 341.0 | 329.3 | 316.6 | 283.5 | 283.5 |
| 47.5° | 1997.2 | 898.3 | 336.1 | 304.9 | 312.7 | 334.2 | 325.4 | 301.1 | 278.7 | 251.3 | 249.4 |
| 50°   | 2067.4 | 945.0 | 321.5 | 276.7 | 293.2 | 319.5 | 310.8 | 286.4 | 261.1 | 241.6 | 242.6 |
| 52.5° | 2139.4 | 998.6 | 294.3 | 243.6 | 264.0 | 307.9 | 307.9 | 280.5 | 241.6 | 228.0 | 226.1 |
| 55°   | 2247.6 | 996.7 | 245.5 | 199.7 | 235.8 | 290.3 | 295.2 | 251.3 | 216.3 | 205.5 | 205.5 |
| 56°   | 2263.2 | 951.8 | 221.1 | 187.1 | 223.1 | 285.5 | 286.4 | 243.6 | 206.6 | 194.8 | 194.8 |
| 57.5° | 2146.3 | 859.3 | 193.9 | 171.5 | 207.5 | 276.7 | 277.7 | 236.8 | 198.7 | 182.2 | 180.2 |
| 60°   | 1651.3 | 581.6 | 161.7 | 152.9 | 188.0 | 249.4 | 254.2 | 215.3 | 174.4 | 161.7 | 160.7 |
| 62.5° | 932.3  | 322.4 | 142.3 | 138.4 | 161.7 | 212.3 | 227.0 | 188.0 | 148.1 | 141.3 | 143.2 |
| 65°   | 425.7  | 177.3 | 119.8 | 112.0 | 130.5 | 163.6 | 183.1 | 154.9 | 121.8 | 114.0 | 114.0 |
| 67.5° | 155.9  | 120.8 | 102.3 | 88.6  | 91.6  | 106.2 | 118.9 | 100.4 | 80.9  | 69.1  | 72.1  |
| 70°   | 111.0  | 101.3 | 89.7  | 77.0  | 71.1  | 69.1  | 68.2  | 56.5  | 39.9  | 31.2  | 33.1  |
| 72.5° | 89.7   | 83.8  | 75.0  | 65.3  | 55.5  | 46.7  | 39.9  | 29.2  | 18.5  | 12.7  | 11.7  |
| 75°   | 64.3   | 61.4  | 54.6  | 46.7  | 39.0  | 33.1  | 27.2  | 18.5  | 9.7   | 4.9   | 4.9   |
| 77.5° | 33.1   | 33.1  | 32.2  | 29.2  | 24.4  | 19.5  | 15.6  | 10.7  | 5.9   | 2.0   | 2.0   |
| 80°   | 25.4   | 27.2  | 28.3  | 25.4  | 22.4  | 17.5  | 12.7  | 7.8   | 3.9   | 0.9   | 0.9   |
| 82.5° | 24.4   | 28.3  | 30.2  | 26.3  | 22.4  | 16.6  | 12.7  | 7.8   | 3.9   | 0.9   | 0.9   |
| 85°   | 5.9    | 5.9   | 8.8   | 9.7   | 12.7  | 13.6  | 10.7  | 6.8   | 2.9   | 0.9   | 0.9   |
| 87.5° | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 0.9   | 0.9   | 0.9   | 0.9   | 0.0   |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)