

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: P944864

Luminaire Tested: **GALN-SB1A-727-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3524 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
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

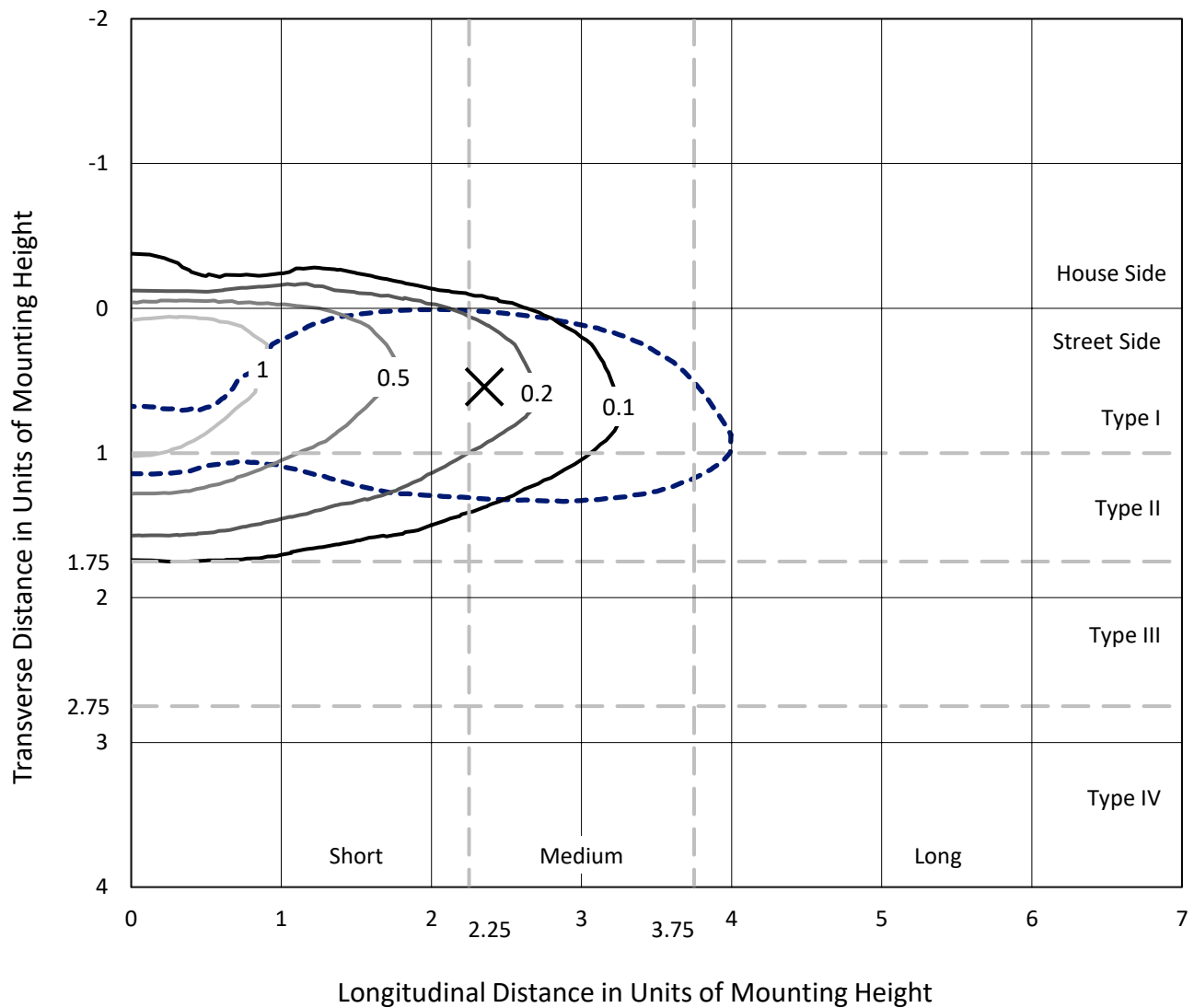


REPORT NUMBER: P944864

CATALOG NUMBER: GALN-SB1A-727-U-T2R-HSS

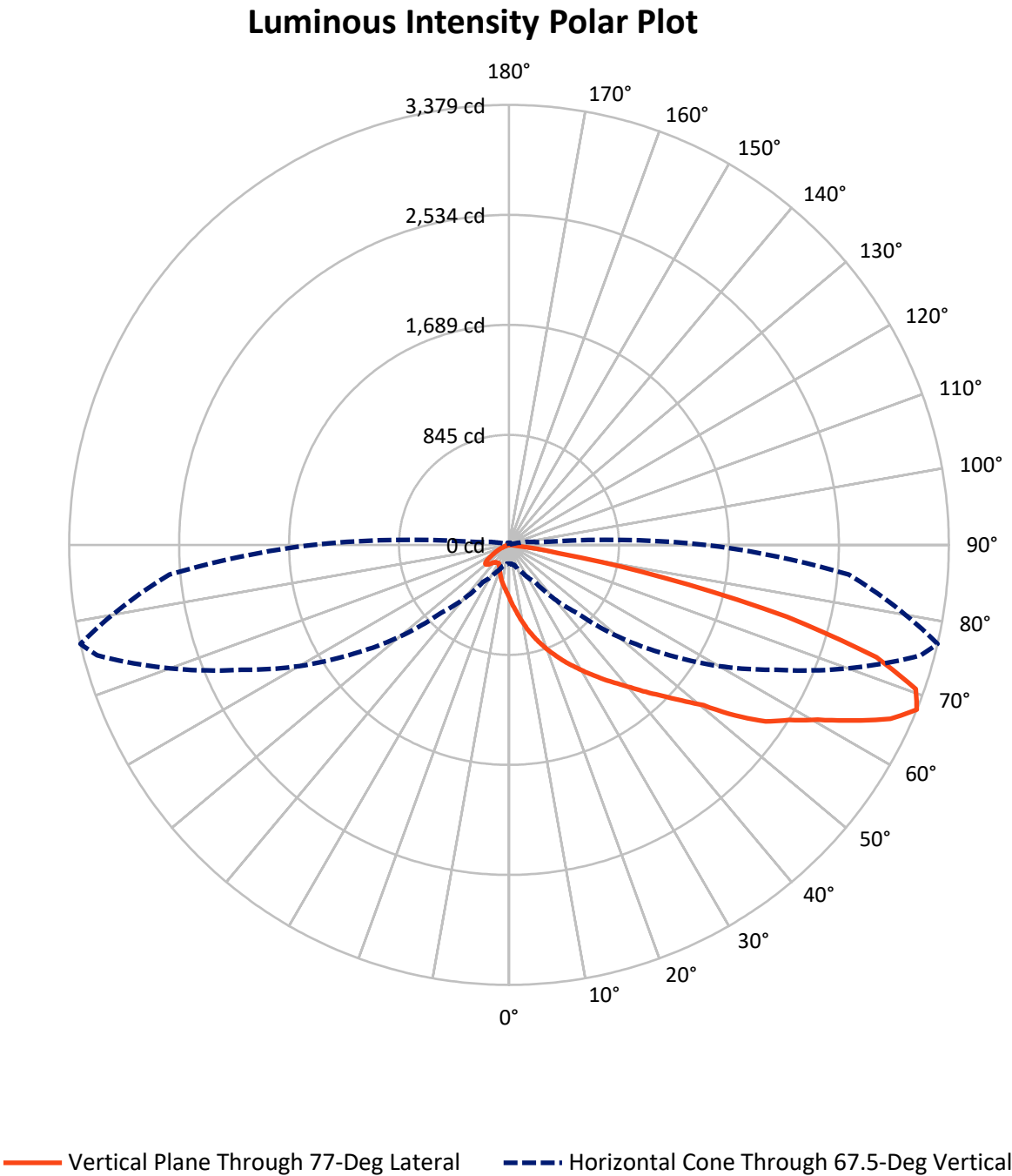
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB1A-727-U-T2R-HSS



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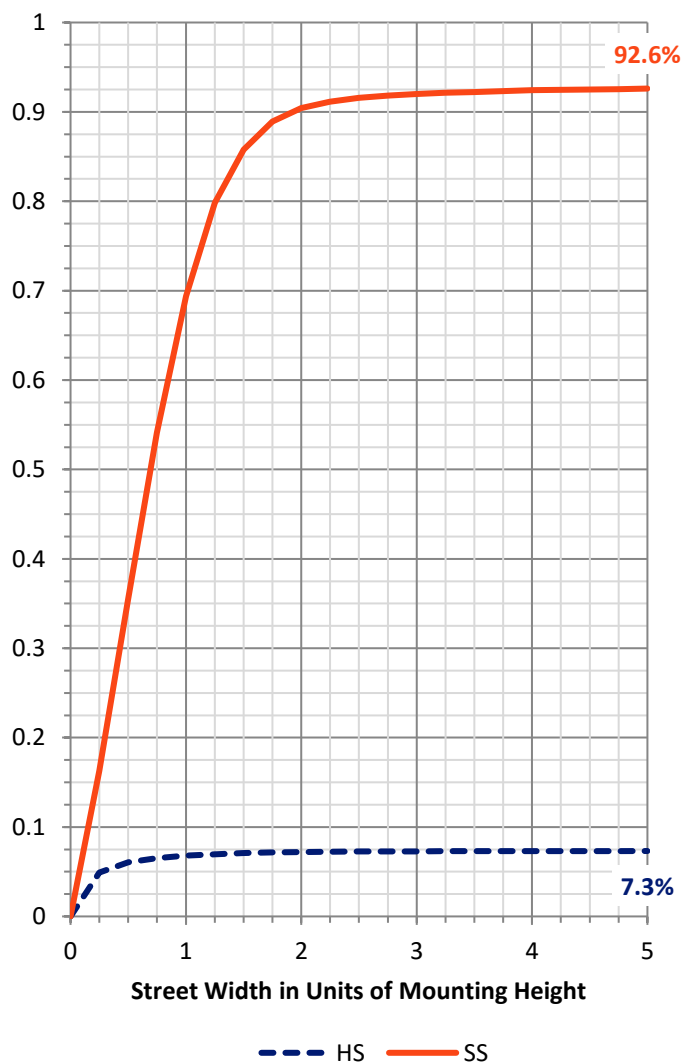
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 259.3    | 0.0    | 259.3  |
|                    | % Fixture | 7.4      | 0.0    | 7.4    |
| <b>Street Side</b> | Lumens    | 3264.7   | 0.0    | 3264.7 |
|                    | % Fixture | 92.6     | 0.0    | 92.6   |
| <b>Total</b>       | Lumens    | 3524.0   | 0.0    | 3524.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.5   | 1.2       |
| 10°-20°   | 145.2  | 4.1       |
| 20°-30°   | 280.3  | 8.0       |
| 30°-40°   | 486.6  | 13.8      |
| 40°-50°   | 706.5  | 20.0      |
| 50°-60°   | 811.3  | 23.0      |
| 60°-70°   | 704.4  | 20.0      |
| 70°-80°   | 331.8  | 9.4       |
| 80°-90°   | 16.4   | 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°    | 3524.0 | 100.0     |
| 0°-180°   | 3524.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P944864

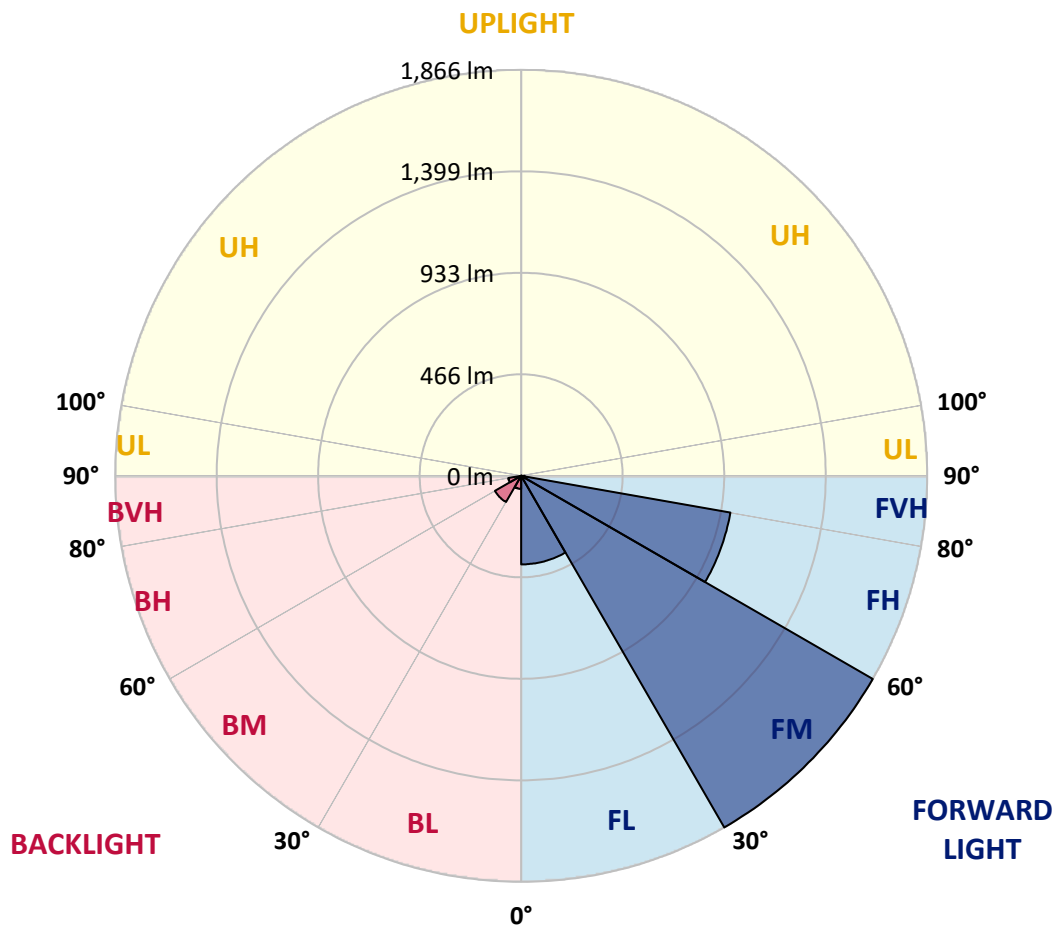
CATALOG NUMBER: GALN-SB1A-727-U-T2R-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 407.0  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 1865.5 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 976.1  | 27.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 16.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 60.0   | 1.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 138.9  | 3.9       | B0/220                  |      |         |
| BH   | (60°-80°)   | 60.0   | 1.7       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.3    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Medium



REPORT NUMBER: P944864

CATALOG NUMBER: GALN-SB1A-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  | 406.4  |
| 2.5°  | 562.6  | 566.1  | 561.1  | 551.5  | 537.0  | 527.6  | 504.6  | 483.0  | 458.9  | 451.2  | 427.2  |
| 5°    | 685.8  | 688.9  | 683.2  | 672.7  | 653.4  | 635.0  | 604.8  | 559.6  | 512.5  | 497.4  | 454.7  |
| 7.5°  | 777.1  | 778.8  | 776.6  | 767.0  | 748.6  | 727.8  | 694.1  | 640.5  | 570.7  | 554.1  | 488.6  |
| 10°   | 842.7  | 848.4  | 847.8  | 844.0  | 831.8  | 814.9  | 779.0  | 718.0  | 635.9  | 614.5  | 526.9  |
| 12.5° | 886.3  | 892.6  | 896.3  | 904.6  | 904.0  | 893.3  | 861.8  | 797.2  | 700.9  | 675.7  | 570.1  |
| 15°   | 899.0  | 905.7  | 920.0  | 939.2  | 956.3  | 961.8  | 939.7  | 874.9  | 772.5  | 740.3  | 614.3  |
| 17.5° | 891.7  | 902.2  | 919.3  | 949.7  | 987.1  | 1011.9 | 1009.5 | 949.9  | 837.5  | 800.7  | 657.6  |
| 20°   | 907.7  | 917.8  | 931.1  | 956.7  | 1000.3 | 1045.1 | 1063.1 | 1021.7 | 902.0  | 863.5  | 703.1  |
| 22.5° | 996.1  | 994.4  | 995.7  | 999.8  | 1025.9 | 1070.3 | 1107.3 | 1086.9 | 965.9  | 926.5  | 751.2  |
| 25°   | 1136.2 | 1128.3 | 1114.9 | 1092.4 | 1085.8 | 1107.3 | 1145.8 | 1144.7 | 1033.3 | 991.1  | 800.5  |
| 27.5° | 1296.8 | 1295.5 | 1264.2 | 1209.9 | 1179.3 | 1171.0 | 1189.3 | 1200.9 | 1100.1 | 1055.0 | 849.9  |
| 30°   | 1450.6 | 1454.1 | 1411.9 | 1351.5 | 1295.3 | 1262.7 | 1246.0 | 1254.3 | 1167.9 | 1123.9 | 900.9  |
| 32.5° | 1584.6 | 1588.3 | 1542.3 | 1471.6 | 1402.0 | 1362.7 | 1327.6 | 1307.1 | 1241.9 | 1193.9 | 956.9  |
| 35°   | 1697.7 | 1701.4 | 1648.7 | 1570.5 | 1496.4 | 1460.7 | 1421.1 | 1364.8 | 1316.3 | 1271.6 | 1019.3 |
| 37.5° | 1798.8 | 1797.7 | 1727.0 | 1648.2 | 1575.4 | 1547.1 | 1526.3 | 1436.0 | 1392.9 | 1349.7 | 1088.5 |
| 40°   | 1858.5 | 1863.1 | 1802.7 | 1715.9 | 1645.2 | 1624.6 | 1623.3 | 1524.2 | 1481.3 | 1439.5 | 1164.2 |
| 42.5° | 1876.0 | 1884.1 | 1840.4 | 1769.0 | 1704.9 | 1682.6 | 1716.9 | 1619.6 | 1584.1 | 1543.4 | 1249.7 |
| 45°   | 1844.5 | 1852.4 | 1832.5 | 1783.0 | 1745.6 | 1731.2 | 1797.5 | 1718.5 | 1694.0 | 1653.7 | 1346.2 |
| 47.5° | 1752.6 | 1762.5 | 1767.3 | 1756.8 | 1756.3 | 1771.0 | 1869.7 | 1822.6 | 1824.4 | 1783.3 | 1458.1 |
| 50°   | 1574.7 | 1591.3 | 1635.5 | 1672.7 | 1730.3 | 1802.5 | 1939.9 | 1935.6 | 1971.4 | 1936.0 | 1603.8 |
| 52.5° | 1251.3 | 1274.9 | 1427.2 | 1529.0 | 1658.3 | 1796.6 | 2017.2 | 2116.8 | 2229.4 | 2177.6 | 1809.3 |
| 55°   | 1005.5 | 1005.5 | 1129.4 | 1319.8 | 1517.8 | 1757.6 | 2050.9 | 2234.5 | 2405.2 | 2392.9 | 1953.9 |
| 57.5° | 819.7  | 829.6  | 908.6  | 1076.9 | 1314.5 | 1664.9 | 2071.7 | 2308.4 | 2546.8 | 2537.8 | 2095.3 |
| 60°   | 505.9  | 527.2  | 676.4  | 842.5  | 1083.2 | 1499.6 | 2058.5 | 2383.3 | 2718.5 | 2725.8 | 2265.6 |
| 62.5° | 284.9  | 292.8  | 359.3  | 606.2  | 842.3  | 1277.5 | 1958.1 | 2425.1 | 2938.2 | 2968.9 | 2441.1 |
| 65°   | 196.7  | 200.7  | 226.3  | 377.3  | 583.8  | 1017.1 | 1761.8 | 2399.0 | 3158.4 | 3220.3 | 2589.9 |
| 67.5° | 142.9  | 144.9  | 160.8  | 230.4  | 346.4  | 737.5  | 1454.1 | 2267.7 | 3275.0 | 3378.5 | 2618.3 |
| 70°   | 109.9  | 111.2  | 122.8  | 151.4  | 204.6  | 455.2  | 1056.1 | 2006.7 | 3190.6 | 3314.2 | 2472.6 |
| 72.5° | 89.3   | 90.6   | 99.6   | 112.0  | 135.7  | 269.2  | 640.1  | 1629.6 | 2817.7 | 2951.2 | 2104.9 |
| 75°   | 75.3   | 77.0   | 85.1   | 93.2   | 106.4  | 172.9  | 300.2  | 1134.9 | 2118.9 | 2206.5 | 1463.8 |
| 77.5° | 41.8   | 38.5   | 69.2   | 77.2   | 89.7   | 109.4  | 140.5  | 667.9  | 1186.7 | 1211.0 | 649.5  |
| 80°   | 26.0   | 26.9   | 54.9   | 62.1   | 68.9   | 55.1   | 64.3   | 257.1  | 411.4  | 390.8  | 125.8  |
| 82.5° | 1.5    | 3.5    | 42.2   | 44.9   | 47.3   | 23.6   | 24.3   | 87.3   | 99.1   | 91.0   | 22.3   |
| 85°   | 0.0    | 0.0    | 19.3   | 15.5   | 16.4   | 6.8    | 7.0    | 20.4   | 13.3   | 14.4   | 4.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.4    | 0.0    | 0.7    | 1.3    | 1.8    | 0.7    | 0.9    | 1.5    |
| 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: P944864

CATALOG NUMBER: GALN-SB1A-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 406.4  | 406.4 | 406.4 | 406.4 | 406.4 | 406.4 | 406.4 | 406.4 | 406.4 | 406.4 | 406.4 |
| 2.5°  | 411.8  | 396.5 | 365.4 | 335.0 | 310.3 | 287.3 | 270.9 | 255.4 | 247.5 | 247.1 | 246.6 |
| 5°    | 424.3  | 392.1 | 330.0 | 275.1 | 230.9 | 195.4 | 172.4 | 156.0 | 147.7 | 144.9 | 144.4 |
| 7.5°  | 441.8  | 393.5 | 298.9 | 222.6 | 170.5 | 140.1 | 126.9 | 121.7 | 119.9 | 117.9 | 117.5 |
| 10°   | 463.9  | 396.5 | 271.1 | 179.2 | 134.4 | 119.0 | 113.8 | 111.6 | 110.3 | 109.0 | 108.5 |
| 12.5° | 488.6  | 399.4 | 243.6 | 148.8 | 118.2 | 110.3 | 106.6 | 103.9 | 102.2 | 100.7 | 100.2 |
| 15°   | 512.7  | 401.1 | 214.9 | 127.6 | 109.9 | 103.5 | 99.6  | 96.7  | 94.3  | 92.6  | 92.3  |
| 17.5° | 536.6  | 403.5 | 188.0 | 114.9 | 103.1 | 96.7  | 92.8  | 89.3  | 87.3  | 85.3  | 85.1  |
| 20°   | 563.1  | 403.1 | 162.6 | 105.9 | 96.3  | 89.9  | 85.8  | 82.5  | 80.5  | 78.3  | 78.1  |
| 22.5° | 587.6  | 400.9 | 140.3 | 98.3  | 89.3  | 83.2  | 78.6  | 75.3  | 73.3  | 71.6  | 71.3  |
| 25°   | 615.8  | 399.1 | 121.7 | 91.3  | 82.7  | 76.6  | 71.6  | 68.5  | 66.3  | 64.8  | 64.6  |
| 27.5° | 642.9  | 396.5 | 108.1 | 84.9  | 76.4  | 70.5  | 65.6  | 62.1  | 60.2  | 59.1  | 59.1  |
| 30°   | 669.6  | 395.9 | 103.1 | 78.8  | 70.7  | 64.8  | 60.0  | 56.7  | 55.1  | 54.7  | 54.5  |
| 32.5° | 701.8  | 397.6 | 105.3 | 76.6  | 65.4  | 59.5  | 54.9  | 52.5  | 51.0  | 51.0  | 51.0  |
| 35°   | 736.1  | 397.2 | 108.5 | 78.6  | 61.9  | 54.3  | 50.8  | 49.2  | 47.7  | 47.7  | 47.7  |
| 37.5° | 779.3  | 397.8 | 111.2 | 81.8  | 60.6  | 49.9  | 47.9  | 46.0  | 45.1  | 45.1  | 45.1  |
| 40°   | 843.6  | 419.5 | 109.9 | 84.7  | 60.2  | 46.8  | 42.9  | 42.2  | 41.6  | 41.6  | 41.6  |
| 42.5° | 922.4  | 466.5 | 111.6 | 84.9  | 60.0  | 44.6  | 39.4  | 40.7  | 39.2  | 39.0  | 38.7  |
| 45°   | 1008.6 | 518.0 | 122.8 | 80.3  | 59.7  | 43.5  | 37.6  | 39.2  | 36.8  | 36.8  | 36.8  |
| 47.5° | 1094.2 | 569.0 | 134.1 | 73.7  | 59.1  | 43.3  | 36.1  | 35.2  | 34.6  | 34.8  | 34.8  |
| 50°   | 1212.1 | 610.5 | 138.5 | 64.8  | 57.6  | 42.9  | 33.3  | 33.5  | 33.0  | 33.5  | 33.5  |
| 52.5° | 1340.6 | 619.3 | 133.3 | 54.7  | 53.2  | 41.6  | 31.3  | 32.2  | 31.9  | 32.4  | 32.4  |
| 55°   | 1420.7 | 609.9 | 110.1 | 45.5  | 46.4  | 36.3  | 29.3  | 31.1  | 31.1  | 31.1  | 31.1  |
| 57.5° | 1503.4 | 569.8 | 78.1  | 37.0  | 38.5  | 29.8  | 27.6  | 30.0  | 29.8  | 29.5  | 29.5  |
| 60°   | 1562.9 | 505.1 | 51.4  | 30.4  | 30.6  | 24.5  | 25.6  | 28.2  | 28.0  | 26.9  | 26.9  |
| 62.5° | 1607.3 | 433.5 | 33.0  | 25.8  | 23.4  | 22.1  | 23.4  | 25.6  | 24.7  | 22.3  | 21.9  |
| 65°   | 1602.3 | 334.4 | 25.4  | 22.1  | 19.3  | 19.3  | 20.4  | 22.3  | 19.7  | 15.8  | 15.3  |
| 67.5° | 1508.8 | 226.3 | 21.0  | 18.6  | 16.2  | 16.0  | 16.8  | 18.6  | 16.8  | 13.3  | 12.9  |
| 70°   | 1341.9 | 147.9 | 16.8  | 14.4  | 12.9  | 11.8  | 13.6  | 16.0  | 14.2  | 10.7  | 10.3  |
| 72.5° | 1089.1 | 90.2  | 12.7  | 10.5  | 9.4   | 7.7   | 10.7  | 13.1  | 11.4  | 7.9   | 7.4   |
| 75°   | 704.6  | 46.0  | 8.8   | 6.8   | 5.0   | 4.6   | 7.9   | 9.8   | 7.9   | 4.8   | 4.2   |
| 77.5° | 269.6  | 19.3  | 4.8   | 3.1   | 2.6   | 2.2   | 4.4   | 5.9   | 3.3   | 1.1   | 0.9   |
| 80°   | 51.9   | 8.1   | 2.4   | 1.5   | 1.3   | 0.9   | 0.7   | 0.4   | 0.0   | 0.0   | 0.0   |
| 82.5° | 9.0    | 2.6   | 0.9   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 3.1    | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.1    | 0.0   | 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   | 0.0   |

(END OF REPORT)