

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: P529437

Luminaire Tested: **GALN-SA4C-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529437  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-750-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18394 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

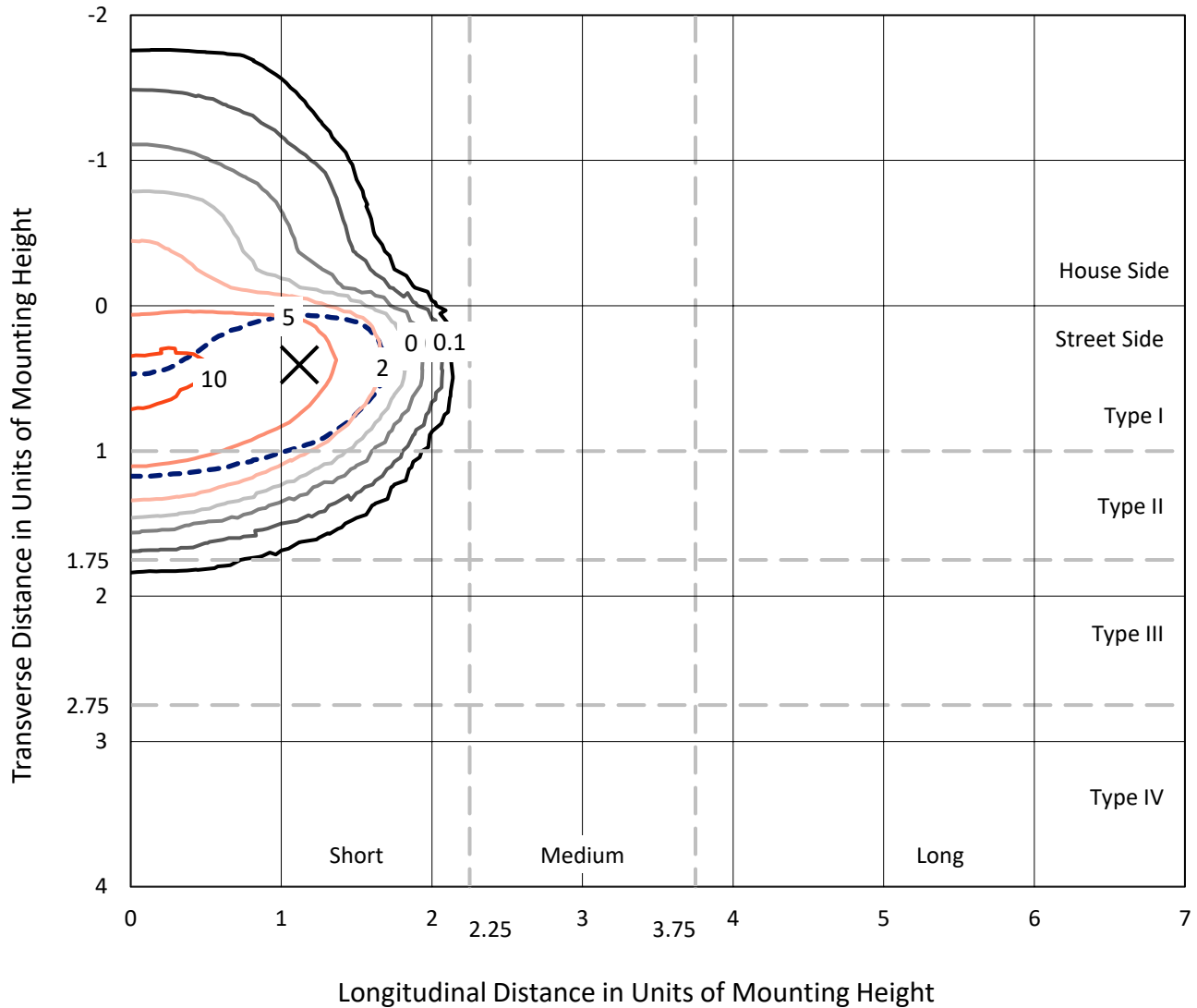
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529437  
 CATALOG NUMBER: GALN-SA4C-750-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

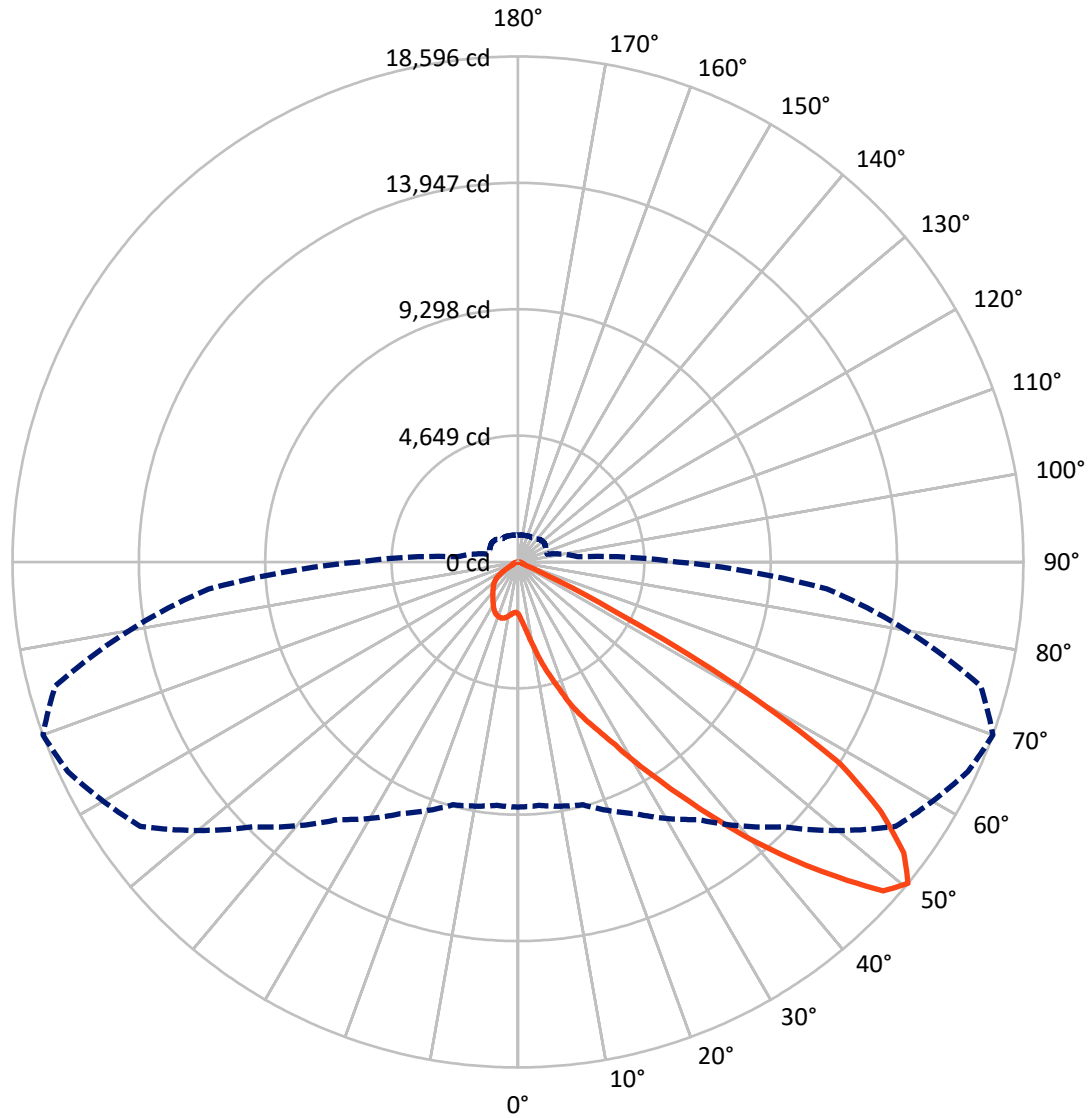
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type I - Short - N/A

REPORT NUMBER: P529437  
CATALOG NUMBER: GALN-SA4C-750-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P529437  
 CATALOG NUMBER: GALN-SA4C-750-U-T2R-GRSBK

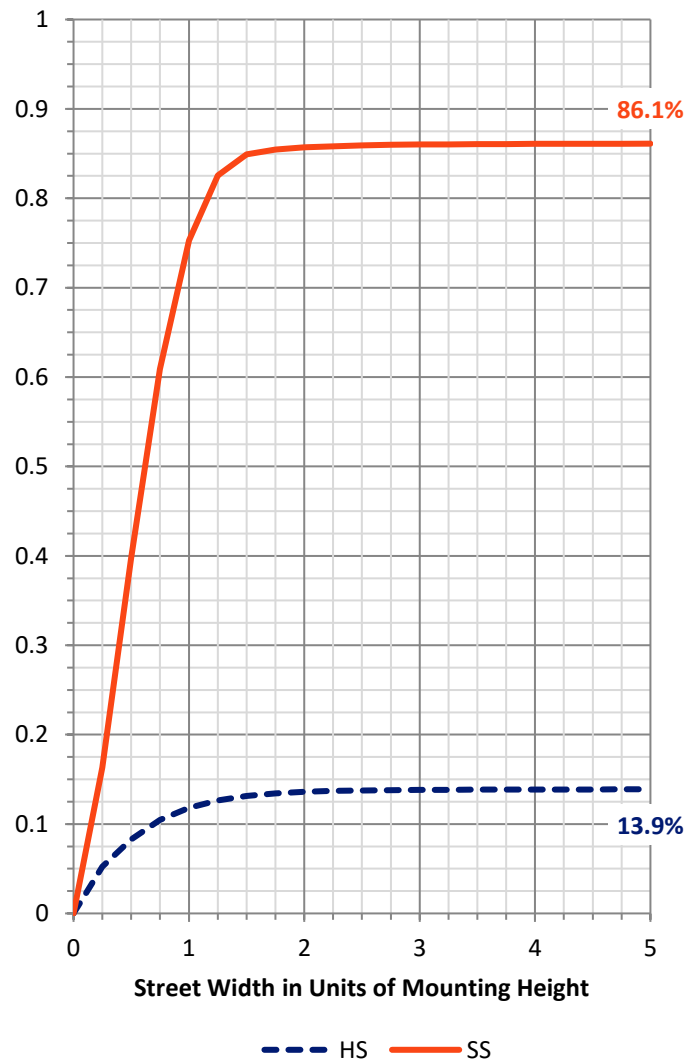
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2568.8   | 0.0    | 2568.8  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 15825.1  | 0.0    | 15825.1 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 18394.0  | 0.0    | 18394.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 247.8   | 1.3       |
| 10°-20°   | 1071.7  | 5.8       |
| 20°-30°   | 2248.2  | 12.2      |
| 30°-40°   | 3875.2  | 21.1      |
| 40°-50°   | 5663.5  | 30.8      |
| 50°-60°   | 4411.0  | 24.0      |
| 60°-70°   | 747.3   | 4.1       |
| 70°-80°   | 102.7   | 0.6       |
| 80°-90°   | 26.6    | 0.1       |
| 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°    | 18394.0 | 100.0     |
| 0°-180°   | 18394.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P529437

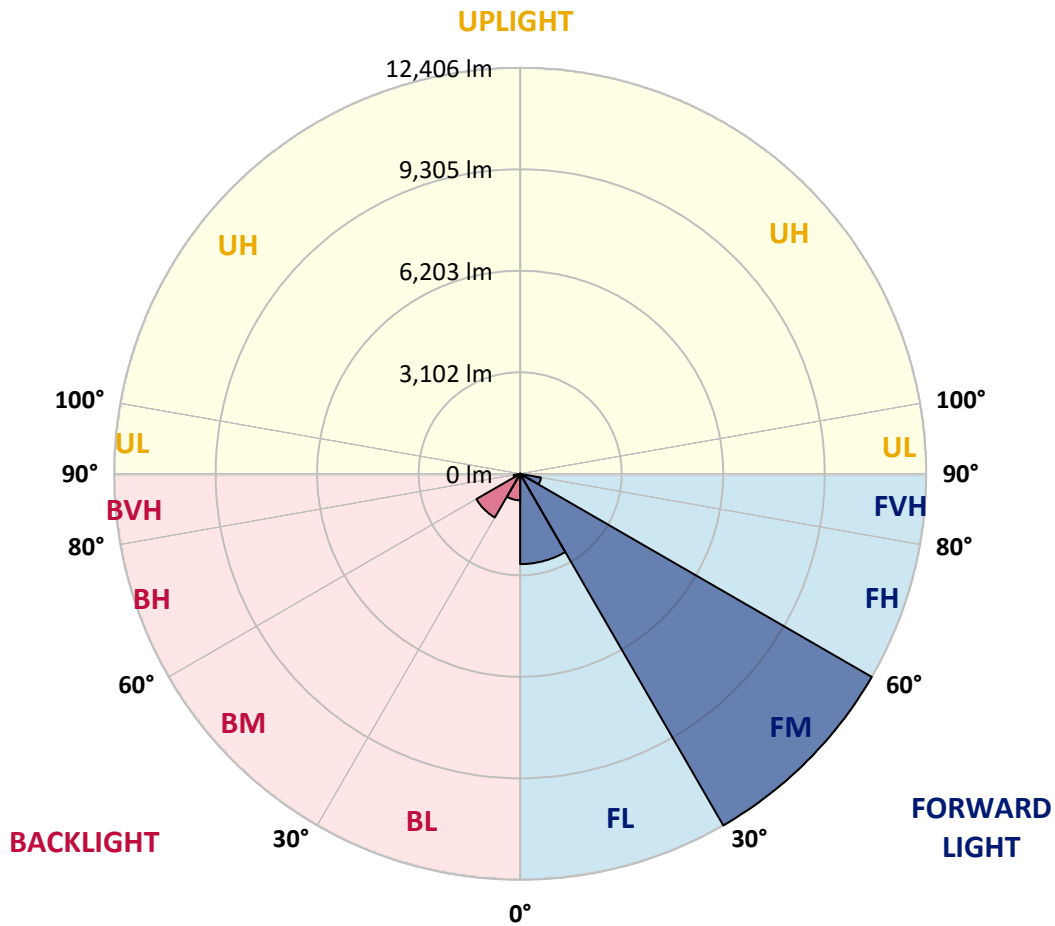
CATALOG NUMBER: GALN-SA4C-750-U-T2R-GRSBK

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2759.3  | 15.0      |                         |      |        |
| FM (30°-60°)   | 12406.4 | 67.4      |                         |      |        |
| FH (60°-80°)   | 647.1   | 3.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 12.3    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 808.4   | 4.4       | B2/1000                 |      |        |
| BM (30°-60°)   | 1543.3  | 8.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 202.9   | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 14.3    | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type I Short





REPORT NUMBER: P529437

CATALOG NUMBER: GALN-SA4C-750-U-T2R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  | 1905.3  |
| 2.5°  | 2495.0  | 2476.8  | 2437.5  | 2364.9  | 2334.7  | 2262.1  | 2219.8  | 2138.1  | 2086.7  | 2029.2  | 1965.7  |
| 5°    | 3514.1  | 3420.4  | 3362.9  | 3281.3  | 3042.4  | 2894.2  | 2649.2  | 2440.5  | 2343.8  | 2237.9  | 2092.8  |
| 7.5°  | 4566.6  | 4506.1  | 4427.5  | 4252.0  | 4088.7  | 3780.3  | 3359.9  | 2900.2  | 2703.6  | 2522.2  | 2234.9  |
| 10°   | 5437.5  | 5268.2  | 5259.1  | 5129.1  | 4950.6  | 4581.7  | 4076.6  | 3505.1  | 3154.3  | 2888.1  | 2437.5  |
| 12.5° | 6045.4  | 5891.2  | 5960.7  | 5945.6  | 5779.3  | 5440.6  | 4856.9  | 4100.8  | 3734.9  | 3320.6  | 2646.2  |
| 15°   | 6598.8  | 6535.3  | 6514.2  | 6496.0  | 6429.5  | 6178.5  | 5655.3  | 4826.6  | 4297.4  | 3798.4  | 2882.1  |
| 17.5° | 7140.2  | 6976.9  | 7055.5  | 7070.6  | 7064.6  | 6837.8  | 6347.8  | 5516.2  | 4893.2  | 4303.5  | 3130.1  |
| 20°   | 7621.0  | 7636.1  | 7530.3  | 7509.1  | 7491.0  | 7481.9  | 7004.1  | 6199.6  | 5625.0  | 4832.7  | 3453.7  |
| 22.5° | 8238.0  | 8132.1  | 8225.9  | 8165.4  | 8047.4  | 7974.9  | 7608.9  | 6804.5  | 6260.1  | 5470.8  | 3783.3  |
| 25°   | 8966.8  | 9051.5  | 8830.7  | 8806.5  | 8676.5  | 8425.5  | 8095.8  | 7481.9  | 6871.0  | 6063.6  | 4140.2  |
| 27.5° | 9865.0  | 9716.8  | 9659.3  | 9526.3  | 9290.4  | 9184.5  | 8797.4  | 8180.5  | 7608.9  | 6686.5  | 4484.9  |
| 30°   | 10636.2 | 10596.9 | 10309.6 | 10152.3 | 9946.6  | 9943.6  | 9402.3  | 9127.1  | 8570.6  | 7663.4  | 4959.7  |
| 32.5° | 11265.2 | 11092.8 | 10987.0 | 10878.1 | 10711.8 | 10757.1 | 10300.5 | 10155.3 | 9595.8  | 8570.6  | 5519.2  |
| 35°   | 11685.6 | 11561.6 | 11498.1 | 11331.7 | 11283.4 | 11486.0 | 11295.4 | 11235.0 | 10775.3 | 9846.8  | 6175.4  |
| 37.5° | 11818.6 | 11858.0 | 11845.9 | 11637.2 | 11740.0 | 12287.4 | 12532.4 | 12375.1 | 12133.2 | 11192.6 | 6886.1  |
| 40°   | 11936.6 | 11963.8 | 11903.3 | 12148.3 | 12441.6 | 13064.6 | 13950.7 | 13690.6 | 13599.9 | 12556.5 | 7875.1  |
| 42.5° | 12003.1 | 11981.9 | 11981.9 | 12405.3 | 12849.9 | 14101.9 | 15320.7 | 15148.3 | 15078.7 | 14008.2 | 9018.2  |
| 45°   | 11715.8 | 11510.2 | 11730.9 | 12305.5 | 13200.7 | 14613.0 | 16415.4 | 16654.4 | 16554.6 | 15735.0 | 10354.9 |
| 47.5° | 10642.2 | 10769.2 | 10893.2 | 11661.4 | 12774.3 | 14455.8 | 17086.8 | 17900.3 | 18084.8 | 17186.6 | 11231.9 |
| 50°   | 9018.2  | 8991.0  | 9248.1  | 10215.8 | 11567.6 | 13778.3 | 16956.8 | 18260.2 | 18595.9 | 17622.1 | 11416.4 |
| 52.5° | 6559.5  | 6759.1  | 7037.4  | 7999.1  | 9601.9  | 12024.3 | 15278.3 | 17331.8 | 17779.4 | 17086.8 | 11295.4 |
| 55°   | 3819.6  | 3598.8  | 4224.8  | 5038.3  | 6550.5  | 9069.6  | 12916.4 | 15363.0 | 16191.7 | 16113.0 | 10684.6 |
| 57.5° | 1530.3  | 1481.9  | 1696.6  | 2286.3  | 3417.4  | 5622.0  | 9393.2  | 12623.1 | 13950.7 | 14758.2 | 9390.2  |
| 60°   | 671.4   | 656.3   | 771.2   | 931.5   | 1397.2  | 2591.8  | 5138.1  | 7850.9  | 9236.0  | 10312.6 | 6462.7  |
| 62.5° | 483.9   | 477.8   | 535.3   | 592.7   | 737.9   | 1128.0  | 2159.3  | 3163.3  | 3943.6  | 4763.1  | 2894.2  |
| 65°   | 390.1   | 405.2   | 444.6   | 474.8   | 544.4   | 626.0   | 762.1   | 880.0   | 1079.6  | 1119.0  | 638.1   |
| 67.5° | 317.5   | 329.6   | 365.9   | 399.2   | 411.3   | 338.7   | 350.8   | 308.5   | 308.5   | 275.2   | 220.8   |
| 70°   | 232.9   | 235.9   | 278.2   | 317.5   | 254.0   | 136.1   | 238.9   | 238.9   | 214.7   | 205.6   | 187.5   |
| 72.5° | 172.4   | 175.4   | 208.7   | 196.6   | 99.8    | 84.7    | 175.4   | 193.5   | 175.4   | 166.3   | 151.2   |
| 75°   | 127.0   | 130.0   | 108.9   | 45.4    | 42.3    | 54.4    | 102.8   | 133.1   | 127.0   | 124.0   | 114.9   |
| 77.5° | 24.2    | 18.1    | 15.1    | 21.2    | 30.2    | 45.4    | 66.5    | 81.7    | 84.7    | 90.7    | 84.7    |
| 80°   | 3.0     | 3.0     | 9.1     | 18.1    | 33.3    | 48.4    | 69.6    | 78.6    | 81.7    | 84.7    | 78.6    |
| 82.5° | 0.0     | 3.0     | 9.1     | 18.1    | 33.3    | 45.4    | 60.5    | 69.6    | 75.6    | 78.6    | 75.6    |
| 85°   | 0.0     | 3.0     | 6.0     | 15.1    | 27.2    | 33.3    | 30.2    | 21.2    | 18.1    | 21.2    | 15.1    |
| 87.5° | 0.0     | 0.0     | 3.0     | 3.0     | 6.0     | 6.0     | 6.0     | 6.0     | 6.0     | 6.0     | 6.0     |
| 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: P529437

CATALOG NUMBER: GALN-SA4C-750-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 | 1905.3 |
| 2.5°  | 1929.4 | 1917.4 | 1875.0 | 1829.7 | 1790.3 | 1808.5 | 1790.3 | 1775.2 | 1781.3 | 1775.2 | 1769.2 |
| 5°    | 2035.3 | 1980.9 | 1890.1 | 1850.8 | 1817.6 | 1814.5 | 1805.5 | 1802.4 | 1805.5 | 1805.5 | 1778.2 |
| 7.5°  | 2135.1 | 2047.4 | 1950.6 | 1908.3 | 1869.0 | 1872.0 | 1850.8 | 1850.8 | 1847.8 | 1832.7 | 1826.6 |
| 10°   | 2286.3 | 2168.4 | 2044.4 | 1968.8 | 1920.4 | 1911.3 | 1890.1 | 1869.0 | 1869.0 | 1869.0 | 1838.7 |
| 12.5° | 2452.6 | 2304.5 | 2135.1 | 2047.4 | 1989.9 | 1944.6 | 1911.3 | 1905.3 | 1872.0 | 1865.9 | 1850.8 |
| 15°   | 2597.8 | 2410.3 | 2195.6 | 2074.6 | 2002.0 | 1941.5 | 1890.1 | 1856.9 | 1841.7 | 1832.7 | 1820.6 |
| 17.5° | 2739.9 | 2501.0 | 2228.8 | 2074.6 | 1996.0 | 1926.4 | 1872.0 | 1841.7 | 1805.5 | 1811.5 | 1787.3 |
| 20°   | 2930.5 | 2597.8 | 2237.9 | 2035.3 | 1938.5 | 1872.0 | 1799.4 | 1784.3 | 1763.1 | 1745.0 | 1751.0 |
| 22.5° | 3114.9 | 2667.4 | 2210.7 | 1986.9 | 1847.8 | 1769.2 | 1732.9 | 1714.7 | 1705.7 | 1690.5 | 1669.4 |
| 25°   | 3281.3 | 2743.0 | 2168.4 | 1899.2 | 1751.0 | 1693.6 | 1660.3 | 1657.3 | 1636.1 | 1636.1 | 1596.8 |
| 27.5° | 3450.6 | 2770.2 | 2095.8 | 1796.4 | 1666.3 | 1633.1 | 1618.0 | 1611.9 | 1602.8 | 1581.7 | 1554.4 |
| 30°   | 3644.2 | 2779.3 | 1989.9 | 1690.5 | 1590.7 | 1554.4 | 1575.6 | 1590.7 | 1551.4 | 1512.1 | 1524.2 |
| 32.5° | 3804.5 | 2758.1 | 1862.9 | 1590.7 | 1536.3 | 1518.2 | 1560.5 | 1575.6 | 1530.3 | 1487.9 | 1466.7 |
| 35°   | 3998.0 | 2706.7 | 1738.9 | 1512.1 | 1481.9 | 1518.2 | 1554.4 | 1554.4 | 1463.7 | 1412.3 | 1400.2 |
| 37.5° | 4291.4 | 2649.2 | 1624.0 | 1445.6 | 1424.4 | 1500.0 | 1548.4 | 1515.1 | 1373.0 | 1309.5 | 1294.4 |
| 40°   | 4605.9 | 2612.9 | 1512.1 | 1379.0 | 1394.2 | 1469.8 | 1497.0 | 1394.2 | 1249.0 | 1209.7 | 1197.6 |
| 42.5° | 5062.5 | 2540.3 | 1412.3 | 1321.6 | 1366.9 | 1427.4 | 1427.4 | 1243.0 | 1188.5 | 1167.3 | 1164.3 |
| 45°   | 5631.1 | 2488.9 | 1324.6 | 1273.2 | 1327.6 | 1342.8 | 1294.4 | 1164.3 | 1125.0 | 1119.0 | 1122.0 |
| 47.5° | 5909.3 | 2389.1 | 1233.9 | 1215.7 | 1255.0 | 1258.1 | 1131.1 | 1100.8 | 1067.5 | 1058.5 | 1052.4 |
| 50°   | 5867.0 | 2210.7 | 1115.9 | 1140.1 | 1194.6 | 1164.3 | 1031.3 | 1037.3 | 1007.1 | 1004.0 | 988.9  |
| 52.5° | 5570.6 | 1929.4 | 998.0  | 1055.5 | 1115.9 | 1028.2 | 949.6  | 943.6  | 943.6  | 904.2  | 889.1  |
| 55°   | 4938.5 | 1554.4 | 855.9  | 928.4  | 1001.0 | 864.9  | 843.8  | 837.7  | 822.6  | 786.3  | 777.2  |
| 57.5° | 3910.3 | 1140.1 | 644.2  | 722.8  | 849.8  | 734.9  | 731.9  | 704.6  | 665.3  | 638.1  | 638.1  |
| 60°   | 2325.6 | 656.3  | 405.2  | 441.5  | 562.5  | 595.8  | 662.3  | 650.2  | 583.7  | 541.3  | 529.2  |
| 62.5° | 1061.5 | 338.7  | 257.1  | 263.1  | 302.4  | 387.1  | 520.2  | 601.8  | 508.1  | 435.5  | 429.4  |
| 65°   | 356.9  | 251.0  | 211.7  | 202.6  | 208.7  | 232.9  | 311.5  | 426.4  | 405.2  | 335.7  | 323.6  |
| 67.5° | 217.7  | 223.8  | 199.6  | 184.5  | 184.5  | 181.5  | 178.4  | 193.5  | 238.9  | 232.9  | 235.9  |
| 70°   | 187.5  | 205.6  | 184.5  | 166.3  | 160.3  | 151.2  | 127.0  | 105.8  | 90.7   | 105.8  | 111.9  |
| 72.5° | 151.2  | 163.3  | 157.3  | 142.1  | 127.0  | 114.9  | 90.7   | 69.6   | 51.4   | 45.4   | 45.4   |
| 75°   | 111.9  | 121.0  | 127.0  | 108.9  | 96.8   | 81.7   | 66.5   | 45.4   | 27.2   | 18.1   | 18.1   |
| 77.5° | 81.7   | 90.7   | 93.8   | 84.7   | 72.6   | 57.5   | 42.3   | 30.2   | 15.1   | 6.0    | 6.0    |
| 80°   | 69.6   | 81.7   | 90.7   | 84.7   | 75.6   | 54.4   | 39.3   | 21.2   | 12.1   | 3.0    | 3.0    |
| 82.5° | 66.5   | 81.7   | 90.7   | 81.7   | 72.6   | 51.4   | 39.3   | 24.2   | 9.1    | 3.0    | 3.0    |
| 85°   | 15.1   | 21.2   | 27.2   | 33.3   | 39.3   | 39.3   | 30.2   | 18.1   | 9.1    | 3.0    | 3.0    |
| 87.5° | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 3.0    | 3.0    | 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)