

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: P650736

Luminaire Tested: **GALN-SA2C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9731.2 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

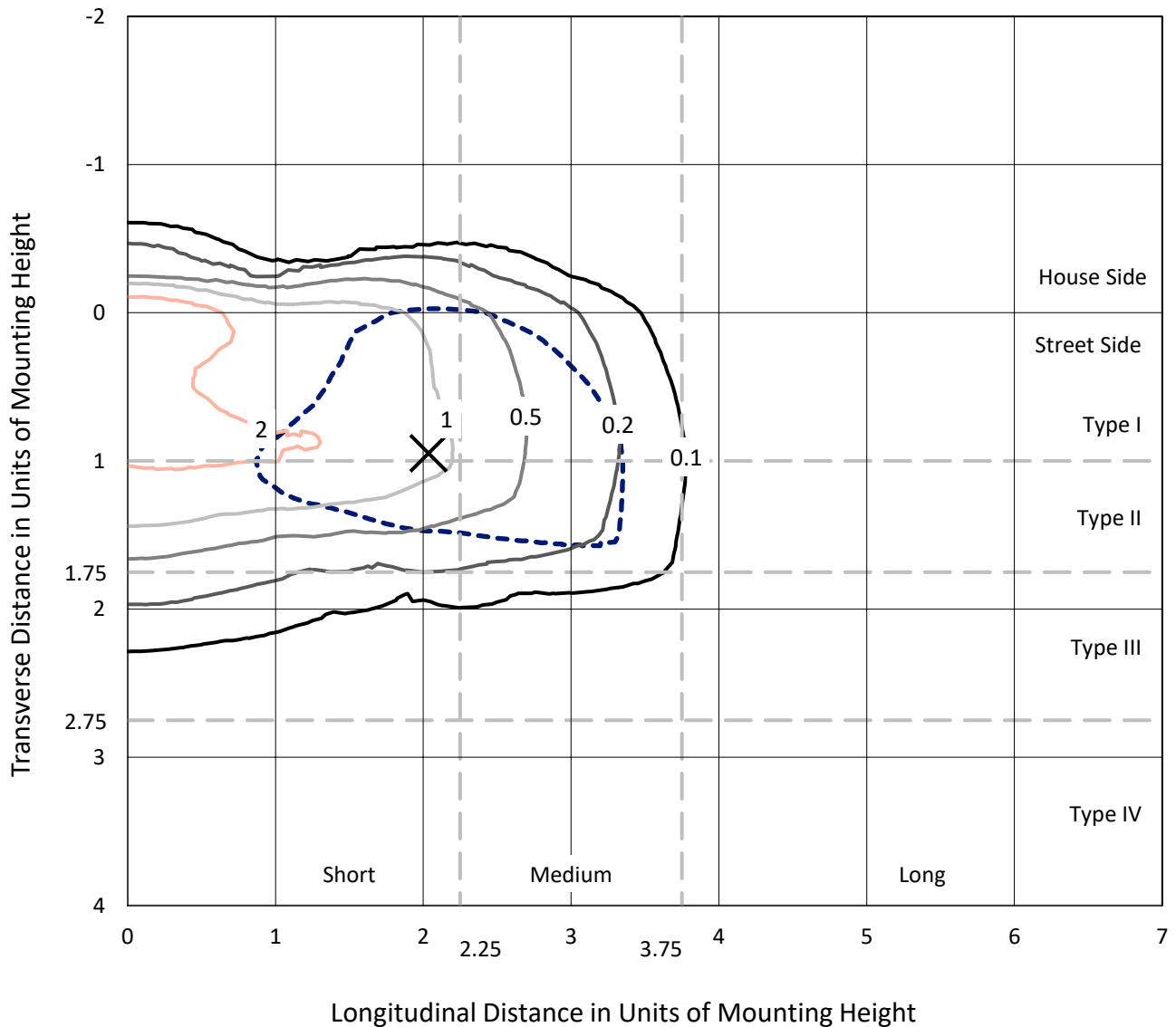
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650736
 CATALOG NUMBER: GALN-SA2C-840-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

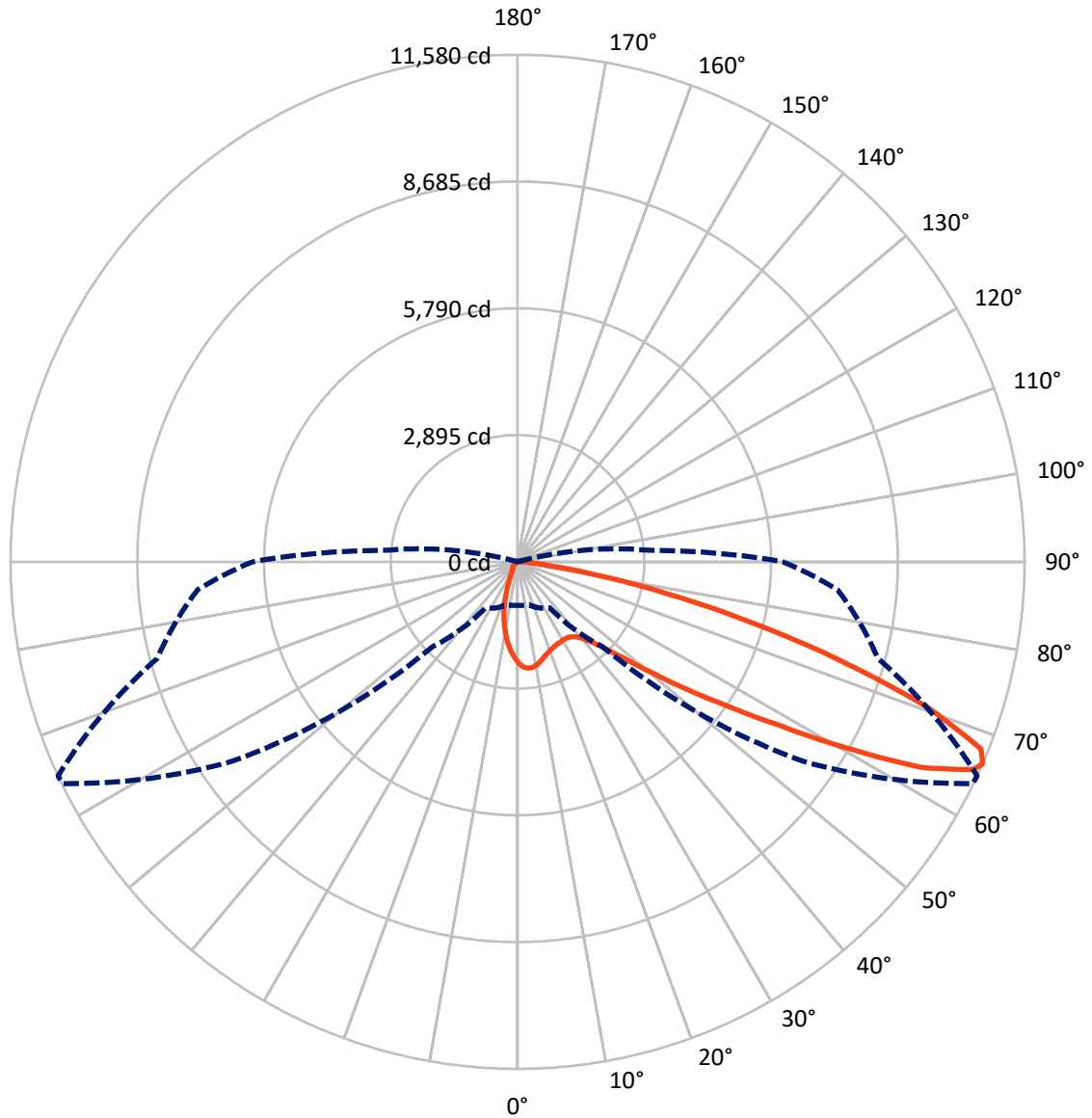
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P650736
CATALOG NUMBER: GALN-SA2C-840-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P650736
 CATALOG NUMBER: GALN-SA2C-840-U-SL2-HSS

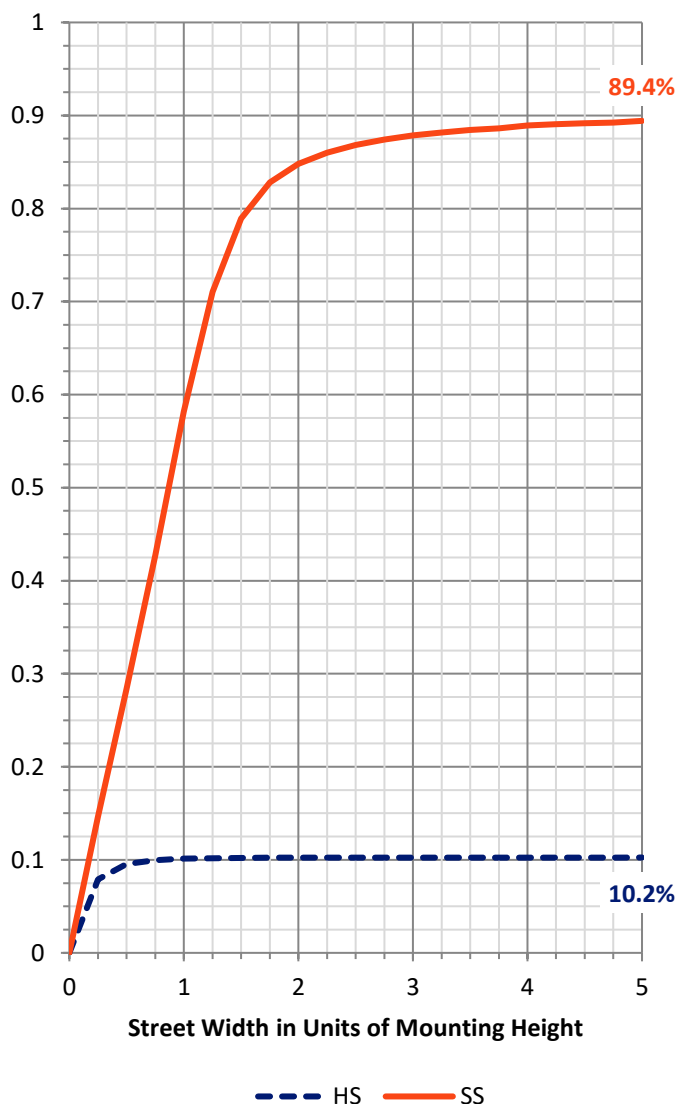
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1006.3 | 0.0 | 1006.3 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 8724.9 | 0.0 | 8724.9 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 9731.2 | 0.0 | 9731.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 188.7 | 1.9 |
| 10°-20° | 411.2 | 4.2 |
| 20°-30° | 589.1 | 6.1 |
| 30°-40° | 860.4 | 8.8 |
| 40°-50° | 1442.7 | 14.8 |
| 50°-60° | 2407.6 | 24.7 |
| 60°-70° | 2555.6 | 26.3 |
| 70°-80° | 1157.4 | 11.9 |
| 80°-90° | 118.4 | 1.2 |
| 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° | 9731.2 | 100.0 |
| 0°-180° | 9731.2 | 100.0 |

Coefficient of Utilization



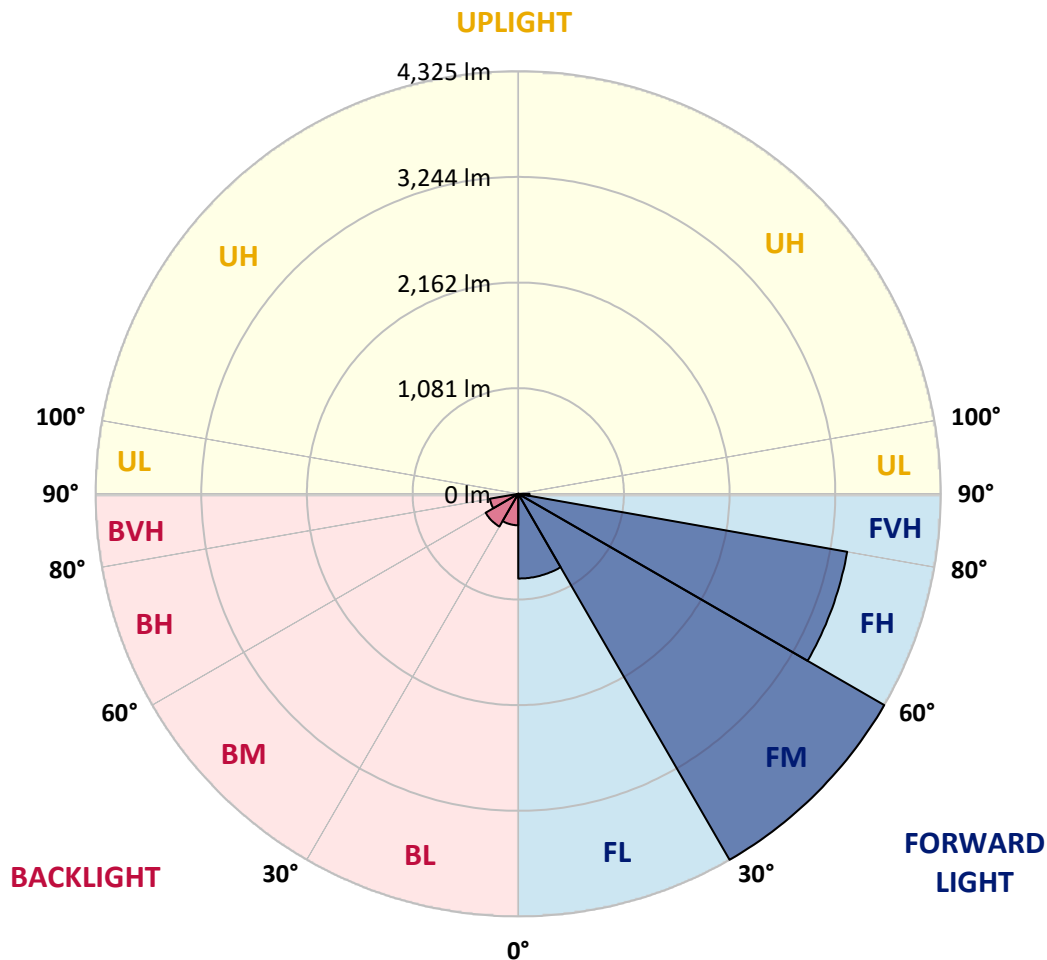
REPORT NUMBER: P650736
 CATALOG NUMBER: GALN-SA2C-840-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 867.1 | 8.9 | | | |
| FM (30°-60°) | 4324.8 | 44.4 | | | |
| FH (60°-80°) | 3418.4 | 35.1 | | | G2/5000 |
| FVH (80°-90°) | 114.7 | 1.2 | | | G2/225 |
| BL (0°-30°) | 321.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 385.9 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 294.7 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 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-G2

Type II Short





REPORT NUMBER: P650736

CATALOG NUMBER: GALN-SA2C-840-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 |
| 2.5° | 2431.8 | 2434.4 | 2437.8 | 2442.3 | 2445.6 | 2435.8 | 2422.0 | 2406.2 | 2402.9 | 2369.4 | 2328.6 |
| 5° | 2301.7 | 2305.7 | 2334.6 | 2350.3 | 2385.8 | 2418.0 | 2438.4 | 2441.1 | 2439.7 | 2408.2 | 2343.1 |
| 7.5° | 2116.4 | 2127.6 | 2155.8 | 2183.4 | 2249.8 | 2310.9 | 2383.2 | 2433.9 | 2437.1 | 2428.6 | 2347.7 |
| 10° | 1965.8 | 1973.1 | 1987.5 | 2042.1 | 2097.3 | 2190.6 | 2291.9 | 2387.2 | 2395.1 | 2429.2 | 2343.8 |
| 12.5° | 1848.2 | 1858.7 | 1876.4 | 1918.6 | 1984.9 | 2073.0 | 2188.0 | 2316.2 | 2332.6 | 2416.7 | 2332.6 |
| 15° | 1766.0 | 1771.3 | 1789.1 | 1830.4 | 1894.9 | 1976.4 | 2092.7 | 2241.9 | 2256.4 | 2400.3 | 2330.7 |
| 17.5° | 1727.2 | 1733.2 | 1745.7 | 1778.5 | 1831.8 | 1907.4 | 2021.1 | 2182.1 | 2200.5 | 2389.8 | 2337.9 |
| 20° | 1737.8 | 1743.1 | 1743.7 | 1760.8 | 1797.0 | 1860.7 | 1968.4 | 2126.2 | 2149.8 | 2383.2 | 2349.7 |
| 22.5° | 1797.6 | 1798.2 | 1790.4 | 1782.5 | 1794.9 | 1840.9 | 1936.3 | 2090.7 | 2115.0 | 2381.9 | 2363.5 |
| 25° | 1887.0 | 1889.0 | 1875.9 | 1848.2 | 1823.2 | 1846.9 | 1929.1 | 2067.8 | 2089.4 | 2378.6 | 2372.0 |
| 27.5° | 2010.6 | 2009.9 | 2006.0 | 1960.0 | 1889.0 | 1873.2 | 1935.0 | 2055.2 | 2073.7 | 2369.4 | 2375.3 |
| 30° | 2183.4 | 2178.2 | 2169.6 | 2117.7 | 2009.2 | 1936.9 | 1960.0 | 2047.3 | 2064.4 | 2356.2 | 2366.7 |
| 32.5° | 2353.6 | 2373.4 | 2372.0 | 2322.8 | 2187.4 | 2050.6 | 2011.8 | 2057.8 | 2070.4 | 2347.7 | 2354.3 |
| 35° | 2552.1 | 2551.5 | 2602.1 | 2583.6 | 2425.3 | 2195.9 | 2100.6 | 2092.7 | 2102.6 | 2353.6 | 2348.4 |
| 37.5° | 2736.2 | 2753.3 | 2832.2 | 2851.2 | 2706.6 | 2401.0 | 2226.1 | 2167.6 | 2171.0 | 2393.7 | 2362.9 |
| 40° | 2965.5 | 2998.4 | 3116.1 | 3179.8 | 3052.3 | 2705.2 | 2411.5 | 2305.0 | 2305.7 | 2492.3 | 2417.4 |
| 42.5° | 3261.3 | 3313.2 | 3423.0 | 3529.5 | 3461.1 | 3065.4 | 2689.5 | 2522.6 | 2521.2 | 2665.8 | 2542.3 |
| 45° | 3620.8 | 3657.0 | 3781.9 | 3950.8 | 3907.4 | 3568.3 | 3094.4 | 2859.7 | 2842.7 | 2950.4 | 2763.8 |
| 47.5° | 3931.1 | 3980.4 | 4107.2 | 4299.8 | 4496.9 | 4182.1 | 3578.1 | 3323.1 | 3311.9 | 3403.3 | 3143.7 |
| 50° | 4066.5 | 4109.8 | 4243.3 | 4513.4 | 4991.3 | 4987.9 | 4298.4 | 3999.4 | 3980.4 | 4029.7 | 3731.3 |
| 52.5° | 3917.9 | 3958.7 | 4093.4 | 4429.9 | 5223.9 | 5969.8 | 5342.2 | 4847.9 | 4824.9 | 4761.8 | 4433.2 |
| 55° | 3409.2 | 3442.7 | 3641.9 | 4028.3 | 5134.5 | 6624.5 | 6780.2 | 5896.3 | 5806.9 | 5561.7 | 5227.8 |
| 57.5° | 2714.5 | 2697.4 | 2821.0 | 3269.9 | 4610.0 | 6844.1 | 8256.4 | 7202.2 | 7042.5 | 6253.2 | 5900.2 |
| 60° | 1881.1 | 1933.6 | 1983.6 | 2279.4 | 3466.3 | 6463.5 | 9174.6 | 8844.0 | 8633.7 | 6933.4 | 6544.3 |
| 62.5° | 1382.9 | 1417.7 | 1450.6 | 1587.3 | 2179.5 | 5160.8 | 9337.0 | 10530.6 | 10343.9 | 7655.7 | 7158.8 |
| 65° | 1093.6 | 1096.3 | 1109.4 | 1244.2 | 1436.1 | 3355.9 | 8556.8 | 11481.6 | 11433.6 | 8351.1 | 7407.9 |
| 66° | 996.4 | 997.1 | 1017.4 | 1162.0 | 1288.9 | 2732.9 | 7931.8 | 11553.9 | 11580.2 | 8518.1 | 7334.9 |
| 67.5° | 870.9 | 868.2 | 897.9 | 1044.4 | 1173.9 | 1970.5 | 6813.1 | 11260.8 | 11416.6 | 8646.2 | 7072.7 |
| 70° | 675.0 | 671.7 | 707.9 | 876.2 | 1081.2 | 1314.5 | 4528.5 | 9668.9 | 9920.0 | 8383.9 | 6257.7 |
| 72.5° | 449.6 | 452.2 | 513.9 | 691.5 | 1031.9 | 1157.5 | 2724.3 | 7355.4 | 7710.3 | 6923.5 | 4922.9 |
| 75° | 262.2 | 266.8 | 337.2 | 513.9 | 895.8 | 1103.6 | 1541.9 | 5244.9 | 5471.6 | 4780.9 | 3066.8 |
| 77.5° | 137.3 | 139.4 | 188.6 | 339.2 | 686.8 | 1024.7 | 1027.3 | 3350.7 | 3457.2 | 2323.4 | 1214.0 |
| 80° | 72.9 | 71.0 | 101.3 | 204.4 | 472.6 | 899.8 | 833.4 | 1773.9 | 1844.2 | 690.1 | 307.0 |
| 82.5° | 27.6 | 30.2 | 53.9 | 134.1 | 279.3 | 646.1 | 717.7 | 784.1 | 759.8 | 151.8 | 128.8 |
| 85° | 5.3 | 6.6 | 23.0 | 79.6 | 140.6 | 270.1 | 529.1 | 384.5 | 356.2 | 57.2 | 74.3 |
| 87.5° | 0.7 | 1.3 | 6.6 | 19.1 | 20.4 | 91.3 | 156.4 | 106.5 | 92.0 | 21.0 | 30.9 |
| 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: P650736

CATALOG NUMBER: GALN-SA2C-840-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 | 2307.6 |
| 2.5° | 2309.0 | 2291.2 | 2232.0 | 2173.6 | 2113.8 | 2059.9 | 2023.0 | 1963.2 | 1948.1 | 1926.4 | 1913.9 |
| 5° | 2304.3 | 2263.0 | 2149.3 | 2025.0 | 1909.3 | 1784.4 | 1689.1 | 1597.1 | 1547.9 | 1522.9 | 1513.6 |
| 7.5° | 2291.2 | 2225.5 | 2048.0 | 1853.5 | 1668.1 | 1481.4 | 1319.1 | 1195.6 | 1116.0 | 1061.5 | 1024.7 |
| 10° | 2264.9 | 2174.2 | 1930.3 | 1662.8 | 1382.9 | 1136.4 | 930.7 | 774.2 | 653.3 | 615.2 | 616.5 |
| 12.5° | 2238.0 | 2117.0 | 1798.9 | 1451.2 | 1104.2 | 793.3 | 575.1 | 451.5 | 393.7 | 374.7 | 370.7 |
| 15° | 2213.0 | 2062.5 | 1670.1 | 1246.2 | 822.2 | 513.9 | 370.7 | 327.3 | 311.5 | 308.2 | 307.6 |
| 17.5° | 2199.8 | 2011.8 | 1532.7 | 1011.6 | 573.8 | 349.0 | 297.0 | 285.3 | 280.6 | 277.4 | 276.0 |
| 20° | 2188.7 | 1967.9 | 1401.3 | 792.0 | 392.4 | 285.9 | 266.2 | 255.0 | 247.2 | 243.8 | 241.9 |
| 22.5° | 2180.8 | 1922.4 | 1265.2 | 613.3 | 300.4 | 253.7 | 236.0 | 221.5 | 210.3 | 206.4 | 203.8 |
| 25° | 2168.9 | 1872.5 | 1127.9 | 448.3 | 253.1 | 225.5 | 205.0 | 188.0 | 173.5 | 166.3 | 165.0 |
| 27.5° | 2151.9 | 1816.0 | 977.3 | 331.9 | 226.1 | 200.5 | 175.5 | 154.5 | 140.0 | 132.1 | 132.8 |
| 30° | 2124.3 | 1756.8 | 826.9 | 263.6 | 204.4 | 174.8 | 147.8 | 127.5 | 113.7 | 107.8 | 107.1 |
| 32.5° | 2091.4 | 1685.2 | 688.8 | 226.1 | 184.7 | 151.8 | 123.5 | 105.8 | 95.3 | 90.7 | 90.1 |
| 35° | 2060.5 | 1612.9 | 548.2 | 203.1 | 164.3 | 130.8 | 103.9 | 88.7 | 80.8 | 76.9 | 77.5 |
| 37.5° | 2043.4 | 1548.5 | 427.2 | 184.7 | 147.8 | 112.4 | 89.4 | 76.3 | 69.0 | 65.8 | 65.1 |
| 40° | 2054.6 | 1495.9 | 339.8 | 168.3 | 129.5 | 96.6 | 76.9 | 65.8 | 58.5 | 53.9 | 53.9 |
| 42.5° | 2107.1 | 1472.9 | 274.1 | 152.5 | 112.4 | 83.5 | 67.0 | 56.5 | 48.6 | 44.1 | 44.7 |
| 45° | 2267.5 | 1497.2 | 229.3 | 138.0 | 96.6 | 72.3 | 57.9 | 46.7 | 39.4 | 36.2 | 35.5 |
| 47.5° | 2533.8 | 1588.6 | 198.5 | 122.9 | 82.8 | 61.8 | 48.6 | 38.8 | 31.5 | 28.9 | 28.3 |
| 50° | 2999.1 | 1777.2 | 175.5 | 107.8 | 70.3 | 52.6 | 40.1 | 30.9 | 25.0 | 22.4 | 22.4 |
| 52.5° | 3639.3 | 2188.7 | 159.0 | 90.7 | 59.1 | 44.7 | 32.9 | 25.0 | 19.7 | 17.7 | 17.1 |
| 55° | 4308.4 | 2622.5 | 150.5 | 76.3 | 49.3 | 36.8 | 26.3 | 19.7 | 15.1 | 13.1 | 12.4 |
| 57.5° | 4951.8 | 2962.9 | 140.6 | 61.8 | 39.4 | 28.3 | 20.4 | 15.1 | 10.5 | 9.2 | 8.6 |
| 60° | 5568.9 | 3238.3 | 119.6 | 49.3 | 30.9 | 20.4 | 15.1 | 10.5 | 7.2 | 5.9 | 5.9 |
| 62.5° | 6121.1 | 3398.6 | 94.0 | 39.4 | 23.6 | 14.5 | 9.8 | 7.9 | 5.3 | 4.0 | 4.0 |
| 65° | 6185.5 | 3190.3 | 71.0 | 30.2 | 17.1 | 9.2 | 5.9 | 5.9 | 4.0 | 2.6 | 2.6 |
| 66° | 6056.0 | 3013.6 | 62.4 | 27.6 | 15.1 | 7.9 | 5.3 | 4.6 | 3.3 | 1.9 | 1.9 |
| 67.5° | 5766.7 | 2711.8 | 53.9 | 23.6 | 12.4 | 5.9 | 4.0 | 4.0 | 2.6 | 1.3 | 1.3 |
| 70° | 4982.7 | 2214.9 | 42.7 | 17.7 | 9.2 | 4.6 | 2.6 | 2.6 | 1.9 | 1.3 | 1.3 |
| 72.5° | 3797.6 | 1653.7 | 34.8 | 13.1 | 6.6 | 3.3 | 1.9 | 1.9 | 1.9 | 1.3 | 1.3 |
| 75° | 2290.5 | 890.6 | 26.9 | 9.8 | 5.9 | 2.6 | 1.3 | 1.9 | 2.6 | 1.9 | 1.3 |
| 77.5° | 843.9 | 303.0 | 21.0 | 7.9 | 4.6 | 2.6 | 1.3 | 1.3 | 2.6 | 1.9 | 1.9 |
| 80° | 207.1 | 78.9 | 15.1 | 6.6 | 4.6 | 2.6 | 1.3 | 1.3 | 2.6 | 2.6 | 2.6 |
| 82.5° | 96.0 | 33.6 | 10.5 | 5.9 | 4.6 | 2.6 | 1.3 | 1.3 | 1.9 | 2.6 | 2.6 |
| 85° | 55.2 | 15.8 | 8.6 | 6.6 | 4.6 | 2.6 | 1.3 | 1.3 | 1.9 | 2.6 | 2.6 |
| 87.5° | 22.4 | 7.9 | 7.9 | 6.6 | 5.3 | 3.3 | 1.3 | 1.3 | 1.3 | 1.9 | 1.9 |
| 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)