

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: P522757

Luminaire Tested: **GALN-SA5A-722-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16848 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

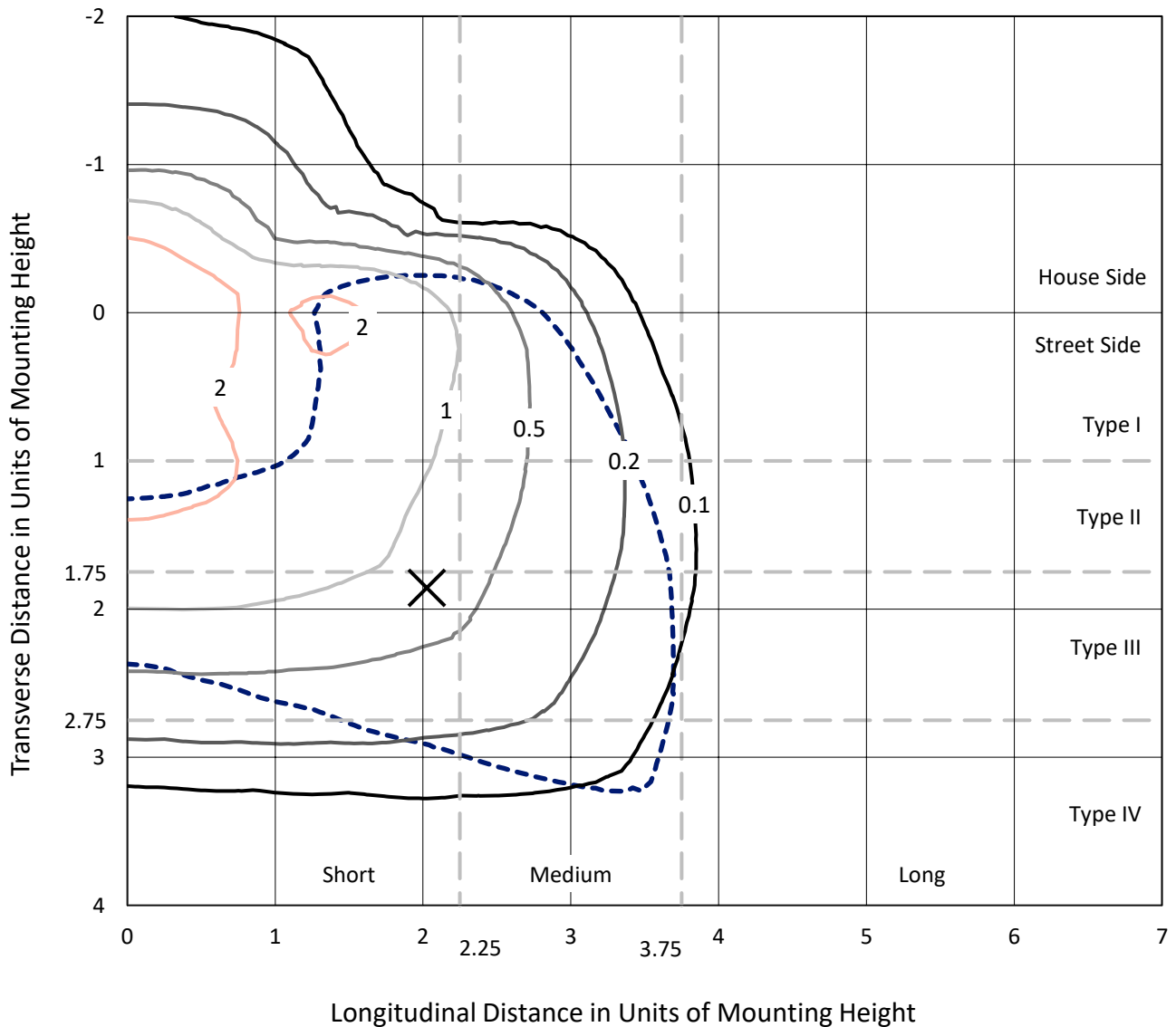
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522757
 CATALOG NUMBER: GALN-SA5A-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

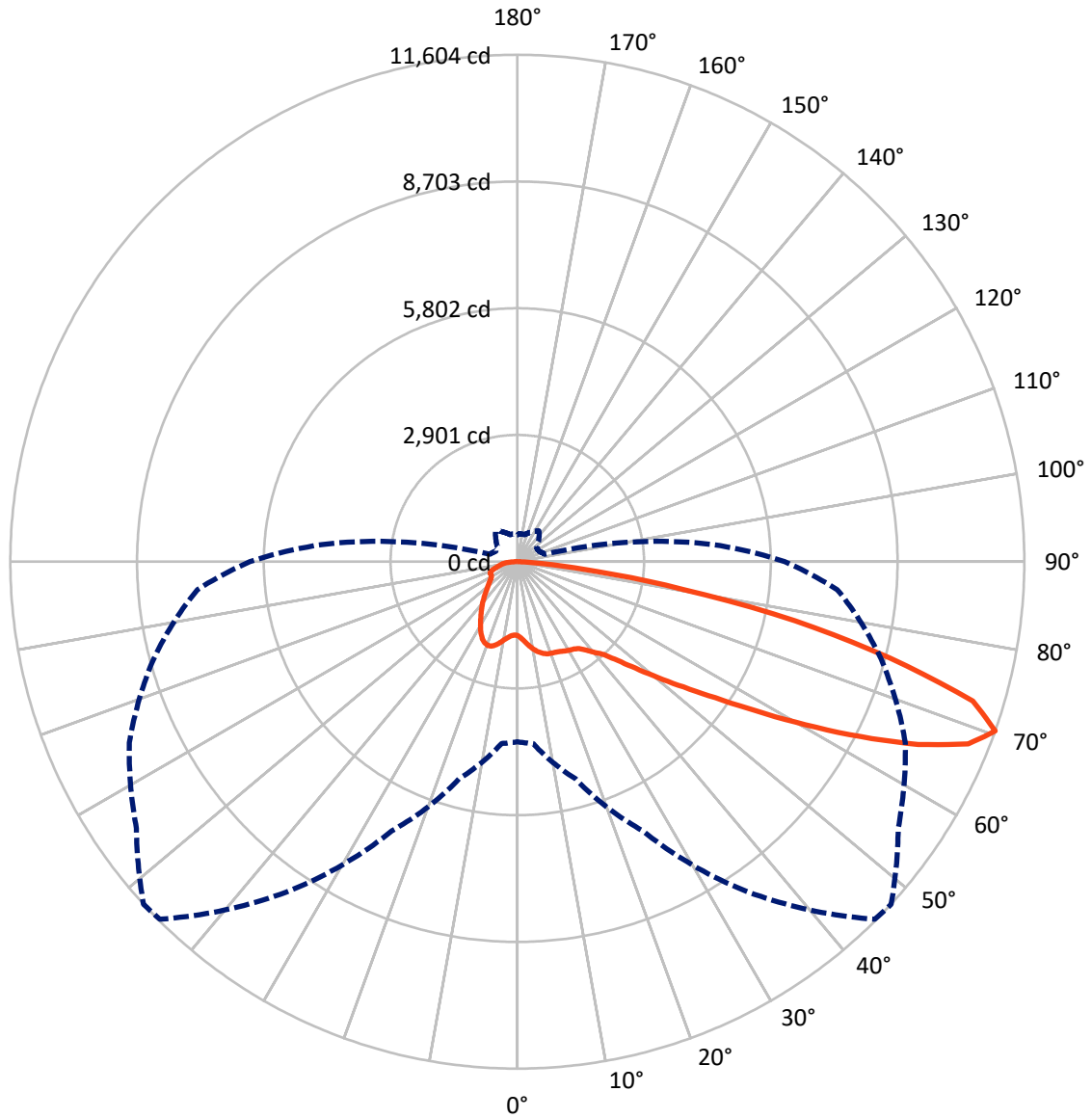
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P522757
CATALOG NUMBER: GALN-SA5A-722-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522757

CATALOG NUMBER: GALN-SA5A-722-U-T4W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3814.7 | 0.0 | 3814.7 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 13033.3 | 0.0 | 13033.3 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 16848.0 | 0.0 | 16848.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 174.3 | 1.0 |
| 10°-20° | 582.8 | 3.5 |
| 20°-30° | 969.3 | 5.8 |
| 30°-40° | 1373.8 | 8.2 |
| 40°-50° | 2028.0 | 12.0 |
| 50°-60° | 3512.5 | 20.8 |
| 60°-70° | 4961.6 | 29.4 |
| 70°-80° | 2852.2 | 16.9 |
| 80°-90° | 393.5 | 2.3 |
| 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° | 16848.0 | 100.0 |
| 0°-180° | 16848.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P522757

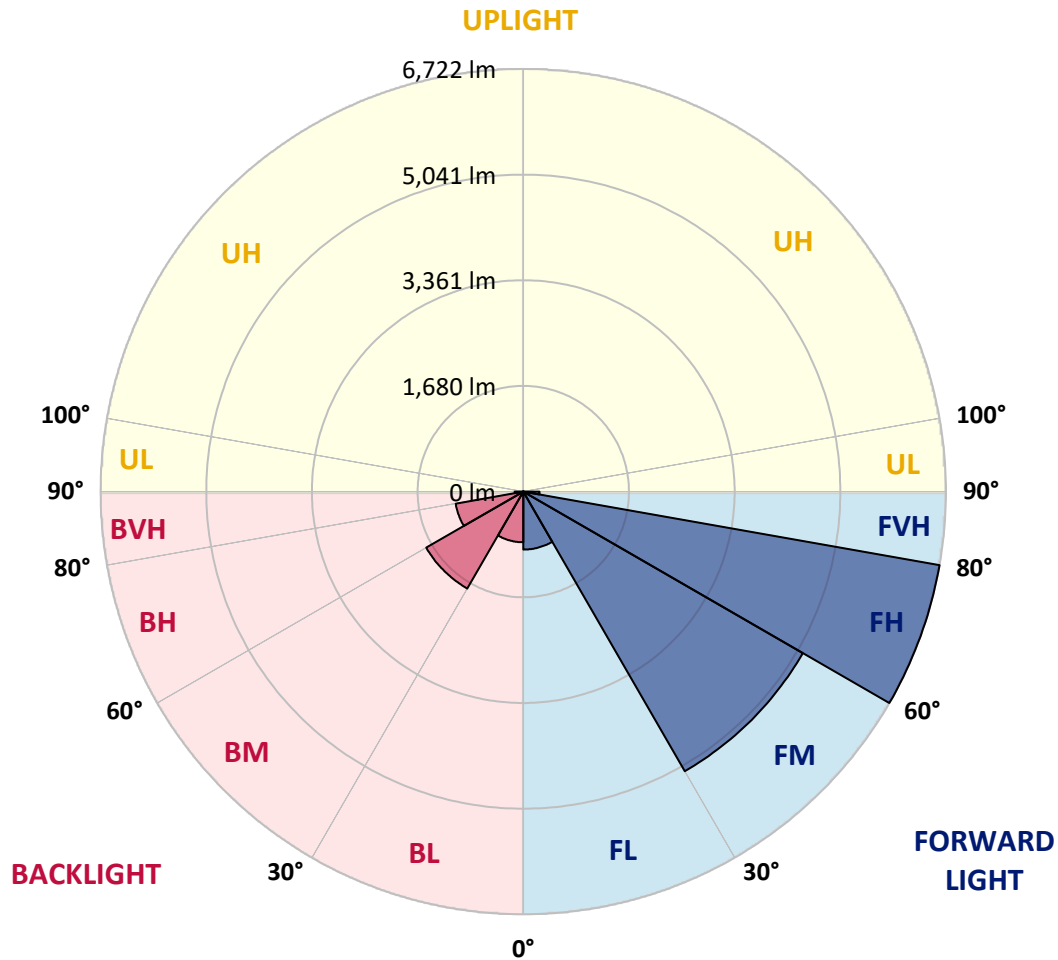
CATALOG NUMBER: GALN-SA5A-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 921.3 | 5.5 | | | |
| FM | (30°-60°) | 5133.3 | 30.5 | | | |
| FH | (60°-80°) | 6721.7 | 39.9 | | | G3/7500 |
| FVH | (80°-90°) | 257.1 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 805.1 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 1781.0 | 10.6 | B2/2500 | | |
| BH | (60°-80°) | 1092.1 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 136.5 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P522757

CATALOG NUMBER: GALN-SA5A-722-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 |
| 2.5° | 1800.4 | 1794.1 | 1793.2 | 1779.7 | 1772.5 | 1759.0 | 1753.5 | 1740.9 | 1725.6 | 1710.3 | 1695.8 |
| 5° | 1942.0 | 1942.0 | 1935.7 | 1916.7 | 1887.0 | 1856.3 | 1842.8 | 1818.5 | 1775.2 | 1740.0 | 1710.3 |
| 7.5° | 2087.1 | 2088.9 | 2076.3 | 2048.4 | 2006.0 | 1956.4 | 1943.8 | 1907.7 | 1846.4 | 1795.0 | 1750.8 |
| 10° | 2212.4 | 2212.4 | 2195.3 | 2157.4 | 2104.3 | 2050.2 | 2037.5 | 1997.0 | 1928.4 | 1864.4 | 1806.7 |
| 12.5° | 2308.0 | 2308.0 | 2285.5 | 2235.9 | 2178.2 | 2129.5 | 2115.1 | 2076.3 | 2012.3 | 1941.1 | 1868.0 |
| 15° | 2370.2 | 2365.7 | 2340.5 | 2284.6 | 2228.7 | 2186.3 | 2176.4 | 2143.9 | 2085.3 | 2013.2 | 1931.2 |
| 17.5° | 2372.9 | 2371.1 | 2346.8 | 2299.9 | 2251.2 | 2222.4 | 2216.0 | 2194.4 | 2148.4 | 2079.9 | 1993.4 |
| 20° | 2320.6 | 2324.2 | 2308.0 | 2274.6 | 2251.2 | 2238.6 | 2235.9 | 2228.7 | 2196.2 | 2132.2 | 2045.7 |
| 22.5° | 2264.7 | 2271.0 | 2255.7 | 2237.7 | 2235.9 | 2248.5 | 2250.3 | 2252.1 | 2231.4 | 2169.2 | 2089.8 |
| 25° | 2251.2 | 2255.7 | 2240.4 | 2224.2 | 2234.1 | 2267.4 | 2274.6 | 2281.9 | 2265.6 | 2213.3 | 2142.1 |
| 27.5° | 2319.7 | 2316.1 | 2286.4 | 2251.2 | 2257.5 | 2302.6 | 2312.5 | 2320.6 | 2312.5 | 2267.4 | 2207.0 |
| 30° | 2513.6 | 2501.8 | 2442.3 | 2339.6 | 2307.1 | 2338.7 | 2348.6 | 2371.1 | 2371.1 | 2337.8 | 2277.4 |
| 32.5° | 2838.1 | 2815.6 | 2706.5 | 2504.5 | 2391.9 | 2372.9 | 2382.8 | 2419.8 | 2438.7 | 2412.6 | 2346.8 |
| 35° | 3232.1 | 3208.7 | 3052.7 | 2781.3 | 2546.9 | 2441.4 | 2438.7 | 2480.2 | 2530.7 | 2472.1 | 2386.4 |
| 37.5° | 3627.9 | 3603.6 | 3416.0 | 3111.3 | 2773.2 | 2585.7 | 2569.5 | 2583.9 | 2605.5 | 2498.2 | 2441.4 |
| 40° | 4023.7 | 3994.8 | 3830.8 | 3480.0 | 3050.0 | 2776.8 | 2734.4 | 2669.5 | 2660.5 | 2583.9 | 2547.8 |
| 42.5° | 4415.9 | 4389.7 | 4306.8 | 3893.9 | 3381.8 | 2963.4 | 2898.5 | 2786.7 | 2821.0 | 2775.0 | 2743.5 |
| 45° | 4811.7 | 4813.5 | 4725.1 | 4358.2 | 3782.1 | 3307.8 | 3220.4 | 3045.5 | 3126.6 | 3109.5 | 3127.5 |
| 47.5° | 5162.4 | 5157.9 | 5126.3 | 4808.9 | 4278.8 | 3751.4 | 3638.7 | 3435.9 | 3574.7 | 3637.8 | 3775.8 |
| 50° | 5502.3 | 5499.5 | 5501.4 | 5320.1 | 4855.8 | 4278.8 | 4154.4 | 3941.6 | 4254.5 | 4473.6 | 4720.6 |
| 52.5° | 5989.1 | 6004.4 | 5895.3 | 5847.6 | 5557.2 | 4901.8 | 4764.8 | 4544.8 | 5057.8 | 5403.1 | 5885.4 |
| 55° | 6477.7 | 6465.1 | 6379.5 | 6429.1 | 6291.1 | 5639.3 | 5495.9 | 5321.0 | 5952.1 | 6329.9 | 7054.7 |
| 57.5° | 6765.3 | 6769.9 | 6857.3 | 7099.8 | 7197.2 | 6558.9 | 6429.1 | 6293.8 | 6957.4 | 7225.1 | 8095.2 |
| 60° | 7024.1 | 7044.8 | 7296.4 | 7754.4 | 8018.5 | 7688.5 | 7573.1 | 7441.5 | 7879.7 | 7986.1 | 8998.5 |
| 62.5° | 7105.2 | 7169.2 | 7608.3 | 8293.5 | 8819.1 | 8963.4 | 8820.0 | 8529.7 | 8757.8 | 8716.3 | 9610.7 |
| 65° | 6700.4 | 6787.9 | 7575.0 | 8495.4 | 9534.1 | 10173.3 | 10082.2 | 9543.1 | 9506.1 | 9256.4 | 9710.8 |
| 67.5° | 5634.8 | 5722.2 | 6732.9 | 8071.7 | 9829.8 | 11220.9 | 11129.8 | 10282.4 | 9960.5 | 9306.9 | 8953.4 |
| 70° | 4122.9 | 4177.9 | 5144.3 | 6796.0 | 9235.6 | 11572.5 | 11604.0 | 10643.0 | 9798.2 | 8620.8 | 7351.4 |
| 72.5° | 2375.6 | 2497.3 | 3174.4 | 4781.0 | 7545.2 | 10683.5 | 10902.6 | 9892.9 | 8772.2 | 7191.8 | 5139.8 |
| 75° | 1021.5 | 1024.2 | 1467.7 | 2637.1 | 5110.1 | 8587.4 | 8799.3 | 8200.6 | 6888.9 | 4973.0 | 2744.4 |
| 77.5° | 485.9 | 495.0 | 645.5 | 1177.4 | 2812.9 | 5933.2 | 6504.8 | 5793.5 | 4405.9 | 2389.1 | 1036.8 |
| 80° | 315.5 | 321.9 | 394.9 | 584.2 | 1379.4 | 3440.4 | 3838.9 | 3342.1 | 1943.8 | 853.8 | 447.2 |
| 82.5° | 191.1 | 192.9 | 264.2 | 357.0 | 759.1 | 1557.9 | 1836.5 | 1450.6 | 829.4 | 511.2 | 263.3 |
| 85° | 116.3 | 117.2 | 160.5 | 220.9 | 460.7 | 538.2 | 552.7 | 548.2 | 486.8 | 334.5 | 140.6 |
| 87.5° | 55.9 | 57.7 | 82.9 | 104.6 | 181.2 | 166.8 | 157.8 | 183.0 | 229.9 | 180.3 | 60.4 |
| 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: P522757
 CATALOG NUMBER: GALN-SA5A-722-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 | 1691.3 |
| 2.5° | 1689.5 | 1686.8 | 1680.5 | 1677.8 | 1676.0 | 1676.9 | 1676.0 | 1676.0 | 1676.9 | 1676.9 | 1676.9 |
| 5° | 1697.6 | 1693.1 | 1683.2 | 1683.2 | 1688.6 | 1701.3 | 1713.0 | 1722.0 | 1731.9 | 1731.0 | 1731.0 |
| 7.5° | 1732.8 | 1724.7 | 1713.0 | 1716.6 | 1730.1 | 1749.9 | 1770.7 | 1790.5 | 1810.3 | 1812.1 | 1811.2 |
| 10° | 1784.2 | 1776.1 | 1763.5 | 1768.0 | 1789.6 | 1819.4 | 1845.5 | 1874.4 | 1896.0 | 1902.3 | 1900.5 |
| 12.5° | 1842.8 | 1826.6 | 1815.8 | 1828.4 | 1862.6 | 1902.3 | 1927.5 | 1949.2 | 1964.5 | 1973.5 | 1969.9 |
| 15° | 1902.3 | 1887.0 | 1874.4 | 1900.5 | 1942.0 | 1978.9 | 1991.6 | 1995.2 | 1997.9 | 2006.9 | 2005.1 |
| 17.5° | 1960.0 | 1939.3 | 1934.8 | 1969.0 | 2008.7 | 2024.9 | 2017.7 | 2002.4 | 1990.7 | 1997.9 | 1997.0 |
| 20° | 2011.4 | 1995.2 | 1993.4 | 2027.6 | 2042.9 | 2027.6 | 1997.0 | 1969.9 | 1949.2 | 1951.0 | 1950.1 |
| 22.5° | 2060.1 | 2047.5 | 2049.3 | 2063.7 | 2039.3 | 1987.0 | 1936.6 | 1899.6 | 1877.1 | 1881.6 | 1884.3 |
| 25° | 2114.2 | 2101.5 | 2106.1 | 2082.6 | 2002.4 | 1911.3 | 1838.3 | 1806.7 | 1797.7 | 1806.7 | 1813.0 |
| 27.5° | 2184.5 | 2176.4 | 2173.7 | 2083.5 | 1936.6 | 1799.5 | 1716.6 | 1704.9 | 1713.0 | 1732.8 | 1742.7 |
| 30° | 2260.2 | 2260.2 | 2245.8 | 2068.2 | 1846.4 | 1665.2 | 1593.1 | 1594.9 | 1622.8 | 1650.8 | 1660.7 |
| 32.5° | 2333.3 | 2348.6 | 2303.5 | 2026.7 | 1730.1 | 1534.5 | 1479.5 | 1481.3 | 1505.6 | 1539.9 | 1548.9 |
| 35° | 2393.7 | 2437.8 | 2353.1 | 1951.0 | 1593.1 | 1424.5 | 1383.0 | 1358.7 | 1359.6 | 1385.7 | 1392.9 |
| 37.5° | 2476.6 | 2558.6 | 2381.9 | 1838.3 | 1447.0 | 1330.7 | 1283.8 | 1241.5 | 1213.5 | 1202.7 | 1202.7 |
| 40° | 2620.9 | 2741.7 | 2389.1 | 1671.5 | 1309.1 | 1241.5 | 1174.7 | 1124.3 | 1070.2 | 1021.5 | 1012.5 |
| 42.5° | 2865.2 | 3017.5 | 2374.7 | 1479.5 | 1184.7 | 1143.2 | 1078.3 | 1016.1 | 941.2 | 872.7 | 867.3 |
| 45° | 3297.9 | 3376.4 | 2336.0 | 1280.2 | 1073.8 | 1048.5 | 985.4 | 917.8 | 838.5 | 777.1 | 772.6 |
| 47.5° | 3991.2 | 3880.3 | 2284.6 | 1103.5 | 972.8 | 965.6 | 916.9 | 838.5 | 759.1 | 716.7 | 712.2 |
| 50° | 5003.7 | 4673.7 | 2277.4 | 975.5 | 891.6 | 895.3 | 855.6 | 783.5 | 714.0 | 678.9 | 673.5 |
| 52.5° | 6222.6 | 5632.1 | 2325.1 | 885.3 | 820.4 | 833.9 | 814.1 | 747.4 | 686.1 | 656.3 | 650.9 |
| 55° | 7405.5 | 6494.0 | 2354.0 | 815.0 | 753.7 | 779.0 | 781.7 | 725.8 | 669.9 | 640.1 | 636.5 |
| 57.5° | 8365.6 | 7143.1 | 2226.0 | 751.0 | 696.0 | 734.8 | 754.6 | 713.1 | 661.7 | 639.2 | 635.6 |
| 60° | 9033.7 | 7449.6 | 1861.7 | 694.2 | 653.6 | 699.6 | 744.7 | 714.0 | 681.6 | 684.3 | 686.1 |
| 62.5° | 9246.5 | 7313.5 | 1396.5 | 651.8 | 624.8 | 687.9 | 760.9 | 751.0 | 717.6 | 738.4 | 742.0 |
| 65° | 8893.9 | 6750.9 | 1012.5 | 618.5 | 599.5 | 696.0 | 809.6 | 778.1 | 705.0 | 720.4 | 720.4 |
| 67.5° | 7713.8 | 5816.0 | 788.0 | 587.8 | 570.7 | 711.3 | 858.3 | 775.3 | 675.3 | 693.3 | 677.1 |
| 70° | 6118.9 | 4498.8 | 656.3 | 553.6 | 540.0 | 688.8 | 862.8 | 747.4 | 640.1 | 643.7 | 613.1 |
| 72.5° | 4060.7 | 2958.0 | 564.4 | 521.1 | 493.2 | 619.4 | 825.8 | 711.3 | 605.9 | 585.1 | 554.5 |
| 75° | 1989.8 | 1475.0 | 492.3 | 480.5 | 431.8 | 539.1 | 775.3 | 677.1 | 568.9 | 536.4 | 519.3 |
| 77.5° | 770.8 | 627.5 | 420.1 | 429.1 | 376.0 | 475.1 | 708.6 | 628.4 | 520.2 | 476.0 | 462.5 |
| 80° | 374.1 | 356.1 | 344.4 | 357.9 | 309.2 | 404.8 | 647.3 | 586.0 | 475.1 | 426.4 | 406.6 |
| 82.5° | 232.6 | 220.0 | 264.2 | 278.6 | 238.0 | 369.6 | 614.0 | 550.0 | 418.3 | 353.4 | 337.2 |
| 85° | 118.1 | 126.2 | 176.7 | 190.2 | 170.4 | 293.9 | 505.8 | 412.9 | 302.0 | 250.6 | 252.4 |
| 87.5° | 45.1 | 60.4 | 92.9 | 100.1 | 91.1 | 155.1 | 278.6 | 240.7 | 193.8 | 131.6 | 121.7 |
| 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)