

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: P940579

Luminaire Tested: **GALN-SB3C-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15450 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

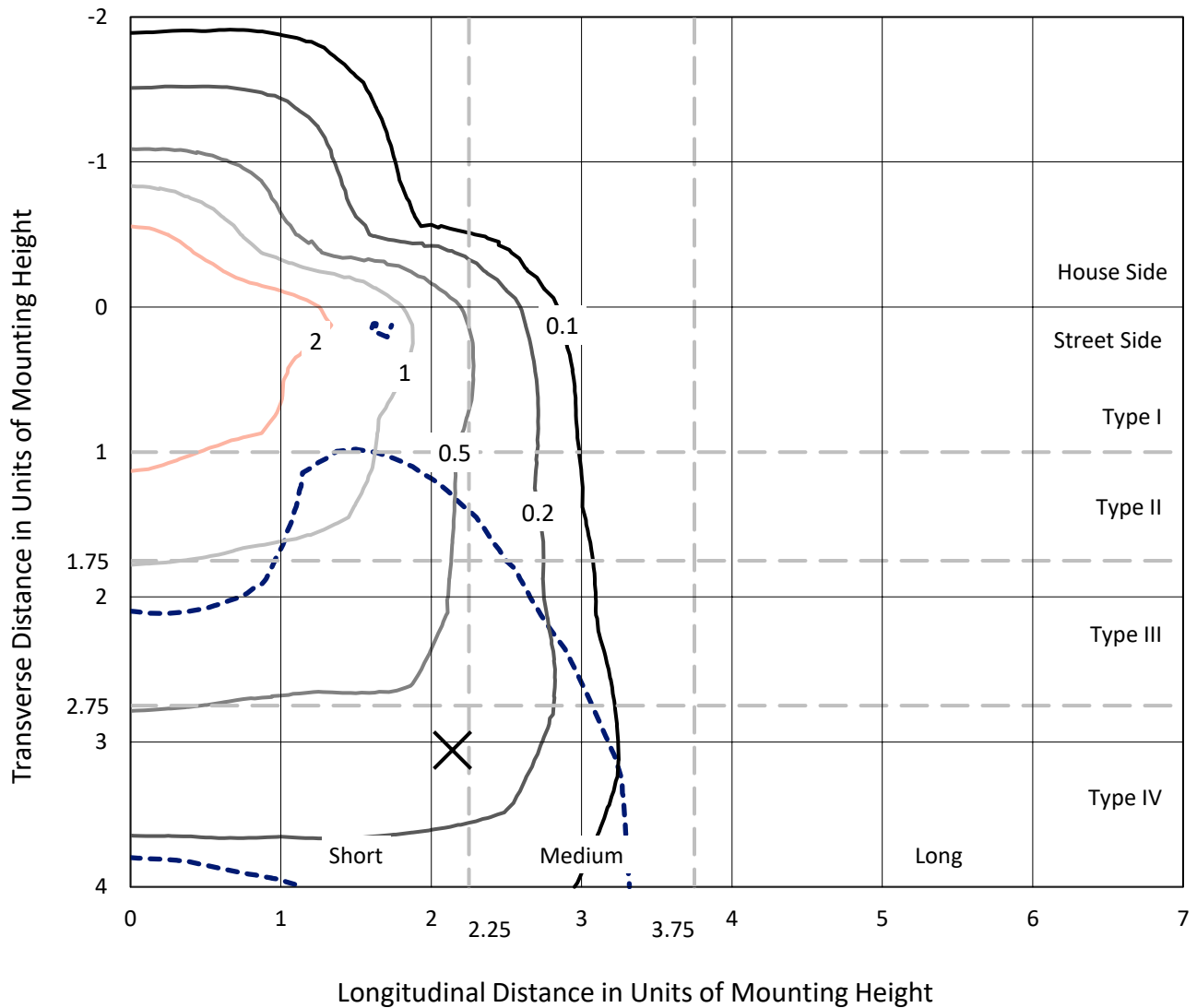
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

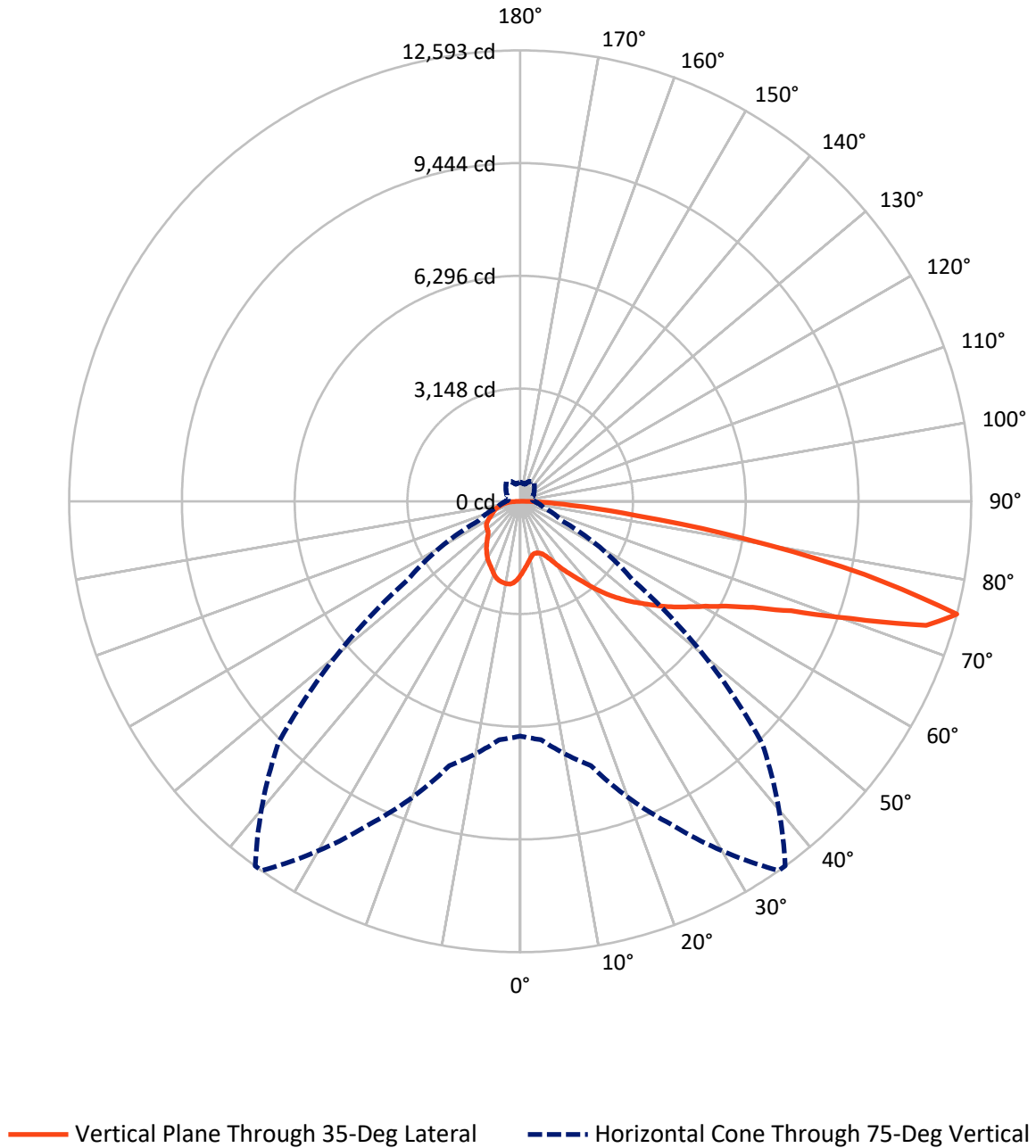
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3676.7 | 0.0 | 3676.7 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 11773.3 | 0.0 | 11773.3 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 15450.0 | 0.0 | 15450.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 194.9 | 1.3 |
| 10°-20° | 562.3 | 3.6 |
| 20°-30° | 944.2 | 6.1 |
| 30°-40° | 1467.4 | 9.5 |
| 40°-50° | 2178.0 | 14.1 |
| 50°-60° | 3006.9 | 19.5 |
| 60°-70° | 3648.0 | 23.6 |
| 70°-80° | 3014.8 | 19.5 |
| 80°-90° | 433.6 | 2.8 |
| 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° | 15450.0 | 100.0 |
| 0°-180° | 15450.0 | 100.0 |

Coefficient of Utilization



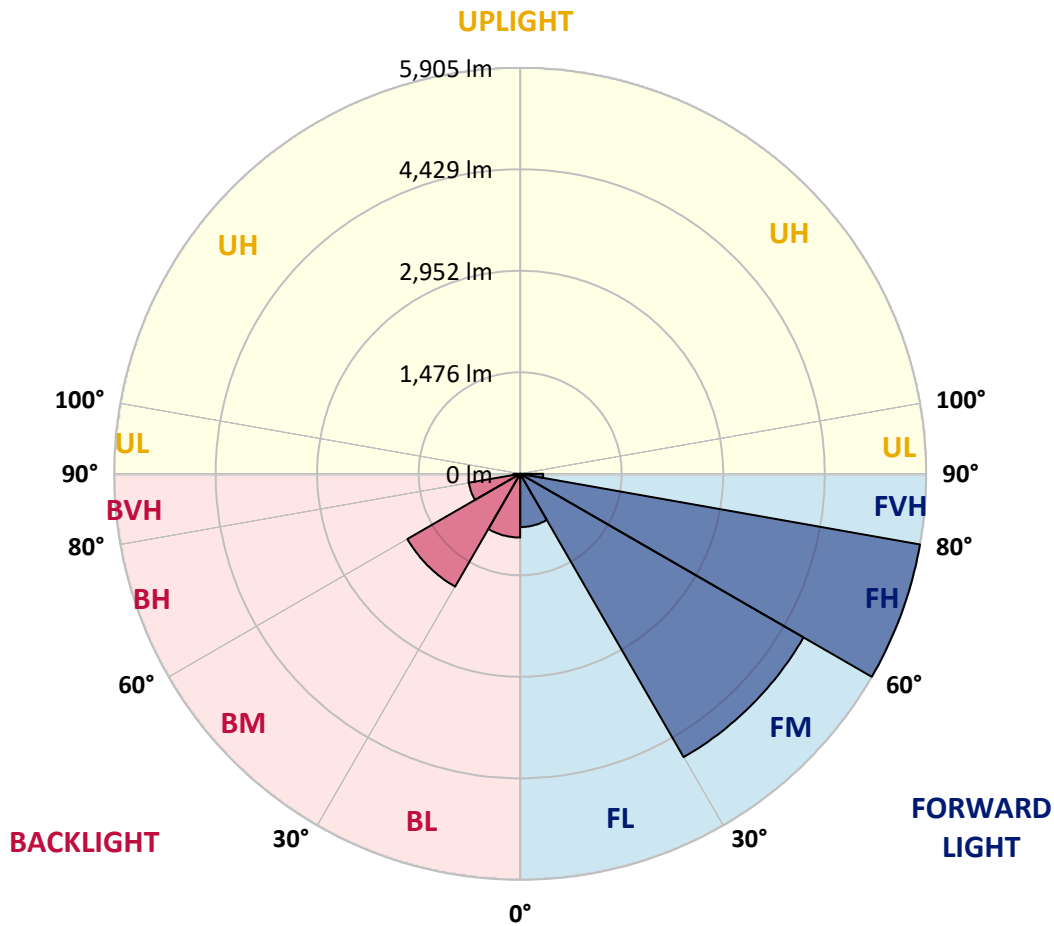
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 774.8 | 5.0 | | | |
| FM (30°-60°) | 4757.8 | 30.8 | | | |
| FH (60°-80°) | 5904.8 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 336.0 | 2.2 | | | G3/500 |
| BL (0°-30°) | 926.6 | 6.0 | B2/1000 | | |
| BM (30°-60°) | 1894.5 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 758.0 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 97.6 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short



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CATALOG NUMBER: GALN-SB3C-950-U-T4FT

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 |
| 2.5° | 1898.5 | 1910.1 | 1915.2 | 1912.7 | 1925.2 | 1923.5 | 1941.1 | 1962.8 | 1992.8 | 2022.1 |
| 5° | 1752.3 | 1764.8 | 1775.7 | 1785.7 | 1809.9 | 1817.4 | 1845.0 | 1886.8 | 1941.9 | 1997.8 |
| 7.5° | 1616.2 | 1627.0 | 1643.7 | 1662.1 | 1703.0 | 1710.5 | 1756.5 | 1821.6 | 1898.5 | 1980.3 |
| 10° | 1505.1 | 1515.9 | 1533.5 | 1554.3 | 1605.3 | 1614.5 | 1672.9 | 1759.8 | 1860.0 | 1963.6 |
| 12.5° | 1457.5 | 1460.8 | 1470.8 | 1491.7 | 1536.0 | 1541.8 | 1606.1 | 1705.5 | 1822.4 | 1951.1 |
| 15° | 1455.0 | 1461.6 | 1462.5 | 1473.3 | 1510.1 | 1512.6 | 1571.9 | 1670.4 | 1799.1 | 1948.6 |
| 17.5° | 1480.0 | 1485.0 | 1477.5 | 1484.2 | 1515.1 | 1519.3 | 1566.0 | 1653.7 | 1791.5 | 1959.4 |
| 20° | 1546.8 | 1551.0 | 1528.5 | 1519.3 | 1541.8 | 1545.2 | 1591.1 | 1664.6 | 1799.1 | 1982.0 |
| 22.5° | 1688.8 | 1691.3 | 1636.2 | 1598.6 | 1600.3 | 1602.0 | 1642.0 | 1708.9 | 1828.3 | 2022.9 |
| 25° | 1910.1 | 1908.5 | 1820.8 | 1748.1 | 1706.4 | 1697.2 | 1723.9 | 1780.7 | 1877.6 | 2077.2 |
| 27.5° | 2169.1 | 2156.5 | 2068.8 | 1960.3 | 1869.2 | 1855.9 | 1850.0 | 1874.2 | 1947.7 | 2149.0 |
| 30° | 2461.4 | 2449.7 | 2355.3 | 2213.3 | 2087.2 | 2065.5 | 2010.4 | 1997.8 | 2052.1 | 2246.7 |
| 32.5° | 2782.1 | 2774.6 | 2661.8 | 2489.8 | 2321.1 | 2296.0 | 2203.3 | 2169.9 | 2212.5 | 2394.6 |
| 35° | 3051.1 | 3044.4 | 2950.8 | 2773.8 | 2567.5 | 2536.6 | 2442.2 | 2404.6 | 2426.3 | 2584.2 |
| 37.5° | 3294.1 | 3290.8 | 3210.6 | 3071.1 | 2858.1 | 2820.5 | 2714.5 | 2701.9 | 2697.8 | 2833.9 |
| 40° | 3519.6 | 3511.3 | 3427.7 | 3354.2 | 3196.4 | 3162.1 | 3068.6 | 3057.7 | 3026.0 | 3141.3 |
| 42.5° | 3769.3 | 3747.6 | 3626.5 | 3592.3 | 3549.7 | 3521.3 | 3465.3 | 3467.0 | 3396.8 | 3487.9 |
| 45° | 3973.1 | 3960.6 | 3836.2 | 3816.1 | 3862.1 | 3850.4 | 3898.8 | 3911.3 | 3775.2 | 3851.2 |
| 47.5° | 4192.0 | 4180.3 | 4075.0 | 4060.8 | 4185.3 | 4188.6 | 4359.8 | 4364.0 | 4144.4 | 4228.7 |
| 50° | 4461.7 | 4445.0 | 4340.6 | 4358.2 | 4497.7 | 4510.2 | 4823.4 | 4795.0 | 4484.3 | 4612.1 |
| 52.5° | 4639.6 | 4649.7 | 4627.1 | 4655.5 | 4845.9 | 4857.6 | 5279.4 | 5206.8 | 4820.9 | 4990.4 |
| 55° | 4770.8 | 4790.8 | 4861.0 | 4926.1 | 5213.4 | 5225.1 | 5709.6 | 5598.5 | 5099.9 | 5341.2 |
| 57.5° | 4939.5 | 4911.1 | 5042.2 | 5169.2 | 5562.6 | 5593.5 | 6128.0 | 5976.0 | 5347.1 | 5643.6 |
| 60° | 5181.7 | 5161.7 | 5263.6 | 5451.5 | 5953.4 | 6002.7 | 6570.7 | 6315.9 | 5528.3 | 5883.3 |
| 62.5° | 5672.8 | 5622.7 | 5638.6 | 5804.8 | 6446.2 | 6511.4 | 7070.1 | 6612.4 | 5618.5 | 5976.8 |
| 65° | 6407.0 | 6320.9 | 6240.8 | 6356.0 | 7140.3 | 7204.6 | 7633.9 | 6845.5 | 5585.1 | 5795.6 |
| 67.5° | 7331.6 | 7246.4 | 7147.8 | 7256.4 | 8162.6 | 8213.6 | 8329.6 | 6976.6 | 5322.0 | 5097.3 |
| 70° | 8094.1 | 8062.4 | 8180.1 | 8627.0 | 9795.5 | 9797.1 | 9221.7 | 6868.0 | 4601.2 | 3614.0 |
| 72.5° | 7993.1 | 7973.8 | 8594.4 | 9975.9 | 11853.4 | 11809.2 | 10066.1 | 6046.2 | 3099.5 | 1630.3 |
| 75° | 6557.3 | 6681.8 | 7643.1 | 9951.6 | 12592.6 | 12586.8 | 9549.1 | 3843.7 | 1282.1 | 675.7 |
| 77.5° | 3516.3 | 3713.4 | 4962.0 | 7347.4 | 9830.5 | 9978.4 | 6713.5 | 1344.7 | 550.4 | 432.6 |
| 80° | 1146.8 | 1318.8 | 1977.8 | 3740.9 | 6387.8 | 6360.2 | 2877.3 | 527.9 | 376.7 | 306.5 |
| 82.5° | 486.9 | 507.0 | 883.7 | 1766.5 | 3278.2 | 3227.3 | 916.2 | 303.2 | 264.8 | 209.6 |
| 85° | 190.4 | 213.0 | 390.0 | 816.8 | 1419.9 | 1389.0 | 330.7 | 150.3 | 169.5 | 137.0 |
| 87.5° | 62.6 | 76.0 | 139.5 | 279.8 | 441.8 | 426.0 | 81.0 | 51.8 | 73.5 | 62.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P940579
 CATALOG NUMBER: GALN-SB3C-950-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2058.8 | 0° | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 | 2058.8 |
| 2064.7 | 2.5° | 2076.4 | 2089.7 | 2105.6 | 2129.0 | 2149.0 | 2165.7 | 2183.3 | 2194.1 | 2198.3 | 2210.8 |
| 2068.0 | 5° | 2091.4 | 2120.6 | 2159.9 | 2198.3 | 2235.9 | 2258.4 | 2278.5 | 2288.5 | 2297.7 | 2304.4 |
| 2077.2 | 7.5° | 2116.4 | 2154.0 | 2215.8 | 2266.0 | 2297.7 | 2316.1 | 2329.4 | 2326.1 | 2329.4 | 2331.1 |
| 2087.2 | 10° | 2138.2 | 2190.8 | 2264.3 | 2311.9 | 2336.1 | 2336.9 | 2333.6 | 2321.9 | 2316.1 | 2316.9 |
| 2102.2 | 12.5° | 2164.1 | 2222.5 | 2301.9 | 2342.0 | 2348.6 | 2330.3 | 2316.1 | 2296.0 | 2288.5 | 2285.2 |
| 2124.8 | 15° | 2199.1 | 2266.0 | 2342.8 | 2357.8 | 2341.1 | 2317.7 | 2293.5 | 2260.9 | 2244.2 | 2230.9 |
| 2163.2 | 17.5° | 2241.7 | 2315.2 | 2374.5 | 2363.7 | 2327.8 | 2289.3 | 2250.1 | 2200.8 | 2166.6 | 2152.4 |
| 2215.8 | 20° | 2301.0 | 2367.0 | 2398.8 | 2351.1 | 2296.9 | 2238.4 | 2171.6 | 2111.4 | 2079.7 | 2065.5 |
| 2282.7 | 22.5° | 2372.9 | 2436.3 | 2422.1 | 2329.4 | 2252.6 | 2159.0 | 2075.5 | 2031.3 | 2015.4 | 2005.4 |
| 2368.7 | 25° | 2458.9 | 2513.2 | 2438.8 | 2297.7 | 2179.9 | 2053.8 | 1989.5 | 1975.3 | 1967.8 | 1960.3 |
| 2473.9 | 27.5° | 2570.8 | 2600.0 | 2451.4 | 2250.9 | 2066.3 | 1941.9 | 1918.5 | 1921.0 | 1918.5 | 1906.0 |
| 2620.1 | 30° | 2718.6 | 2712.8 | 2463.1 | 2174.9 | 1936.0 | 1840.8 | 1842.5 | 1853.4 | 1855.0 | 1846.7 |
| 2823.9 | 32.5° | 2913.2 | 2853.9 | 2468.9 | 2076.4 | 1811.6 | 1752.3 | 1754.0 | 1765.7 | 1774.0 | 1759.8 |
| 3090.3 | 35° | 3148.8 | 3018.5 | 2459.7 | 1952.7 | 1715.5 | 1667.9 | 1655.4 | 1658.7 | 1661.3 | 1647.9 |
| 3413.5 | 37.5° | 3423.6 | 3203.1 | 2418.8 | 1815.8 | 1636.2 | 1585.2 | 1558.5 | 1536.0 | 1522.6 | 1510.1 |
| 3779.4 | 40° | 3725.1 | 3404.4 | 2343.6 | 1682.1 | 1547.7 | 1497.5 | 1457.5 | 1414.9 | 1369.8 | 1353.1 |
| 4166.9 | 42.5° | 4040.8 | 3611.5 | 2252.6 | 1554.3 | 1445.8 | 1404.8 | 1362.2 | 1300.4 | 1232.8 | 1198.5 |
| 4569.5 | 45° | 4368.2 | 3823.6 | 2163.2 | 1428.2 | 1341.4 | 1323.8 | 1274.5 | 1200.2 | 1126.7 | 1083.3 |
| 4972.9 | 47.5° | 4688.9 | 4024.1 | 2032.1 | 1301.3 | 1243.6 | 1262.9 | 1224.4 | 1155.9 | 1074.1 | 1005.6 |
| 5373.0 | 50° | 4995.5 | 4212.0 | 1817.4 | 1172.6 | 1164.3 | 1244.5 | 1207.7 | 1109.2 | 1015.6 | 927.9 |
| 5765.5 | 52.5° | 5299.5 | 4364.0 | 1542.7 | 1055.7 | 1121.7 | 1239.5 | 1186.0 | 1077.4 | 963.0 | 871.1 |
| 6134.7 | 55° | 5557.6 | 4442.5 | 1277.9 | 955.5 | 1059.9 | 1196.9 | 1160.1 | 1039.8 | 888.7 | 791.0 |
| 6387.8 | 57.5° | 5704.6 | 4379.1 | 1057.4 | 856.9 | 974.7 | 1126.7 | 1115.9 | 959.7 | 800.1 | 725.0 |
| 6437.0 | 60° | 5641.1 | 4121.8 | 877.0 | 770.9 | 893.7 | 1050.7 | 1039.0 | 880.3 | 732.5 | 661.5 |
| 6173.1 | 62.5° | 5291.1 | 3631.5 | 734.2 | 695.7 | 820.2 | 973.0 | 962.2 | 819.4 | 680.7 | 612.2 |
| 5472.4 | 65° | 4586.2 | 2954.2 | 623.1 | 633.1 | 745.9 | 879.5 | 895.4 | 768.4 | 639.8 | 573.0 |
| 4233.7 | 67.5° | 3497.9 | 2139.8 | 536.2 | 578.8 | 673.2 | 787.6 | 833.5 | 731.7 | 605.5 | 542.1 |
| 2449.7 | 70° | 1993.7 | 1215.2 | 462.7 | 526.2 | 608.9 | 702.4 | 785.9 | 702.4 | 568.8 | 516.2 |
| 917.9 | 72.5° | 755.9 | 557.9 | 400.1 | 473.6 | 547.1 | 630.6 | 733.3 | 656.5 | 526.2 | 486.9 |
| 474.4 | 75° | 403.4 | 339.9 | 336.6 | 411.8 | 476.1 | 560.4 | 667.3 | 611.4 | 494.5 | 514.5 |
| 328.2 | 77.5° | 274.8 | 240.5 | 281.5 | 352.5 | 398.4 | 482.8 | 597.2 | 542.9 | 428.5 | 426.8 |
| 227.2 | 80° | 190.4 | 170.4 | 228.9 | 284.0 | 308.2 | 405.9 | 521.2 | 466.1 | 349.1 | 325.7 |
| 140.3 | 82.5° | 114.4 | 111.1 | 171.2 | 212.1 | 218.0 | 313.2 | 431.8 | 390.9 | 285.6 | 248.9 |
| 83.5 | 85° | 62.6 | 66.0 | 109.4 | 124.4 | 127.0 | 218.8 | 338.3 | 302.3 | 219.7 | 184.6 |
| 30.1 | 87.5° | 17.5 | 22.6 | 40.1 | 49.3 | 61.0 | 113.6 | 201.3 | 179.6 | 110.2 | 76.8 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END O

| <u>180°</u> |
|-------------|
| 2058.8 |
| 2210.0 |
| 2306.0 |
| 2333.6 |
| 2318.6 |
| 2283.5 |
| 2235.0 |
| 2153.2 |
| 2063.8 |
| 2007.0 |
| 1960.3 |
| 1908.5 |
| 1850.8 |
| 1766.5 |
| 1657.1 |
| 1518.4 |
| 1360.6 |
| 1202.7 |
| 1079.9 |
| 998.1 |
| 920.4 |
| 861.1 |
| 782.6 |
| 714.9 |
| 651.5 |
| 601.4 |
| 562.1 |
| 532.0 |
| 509.5 |
| 480.3 |
| 531.2 |
| 393.4 |
| 311.5 |
| 250.6 |
| 186.3 |
| 76.8 |
| 0.0 |

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