

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: P939767

Luminaire Tested: **GALN-SB2C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14987 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

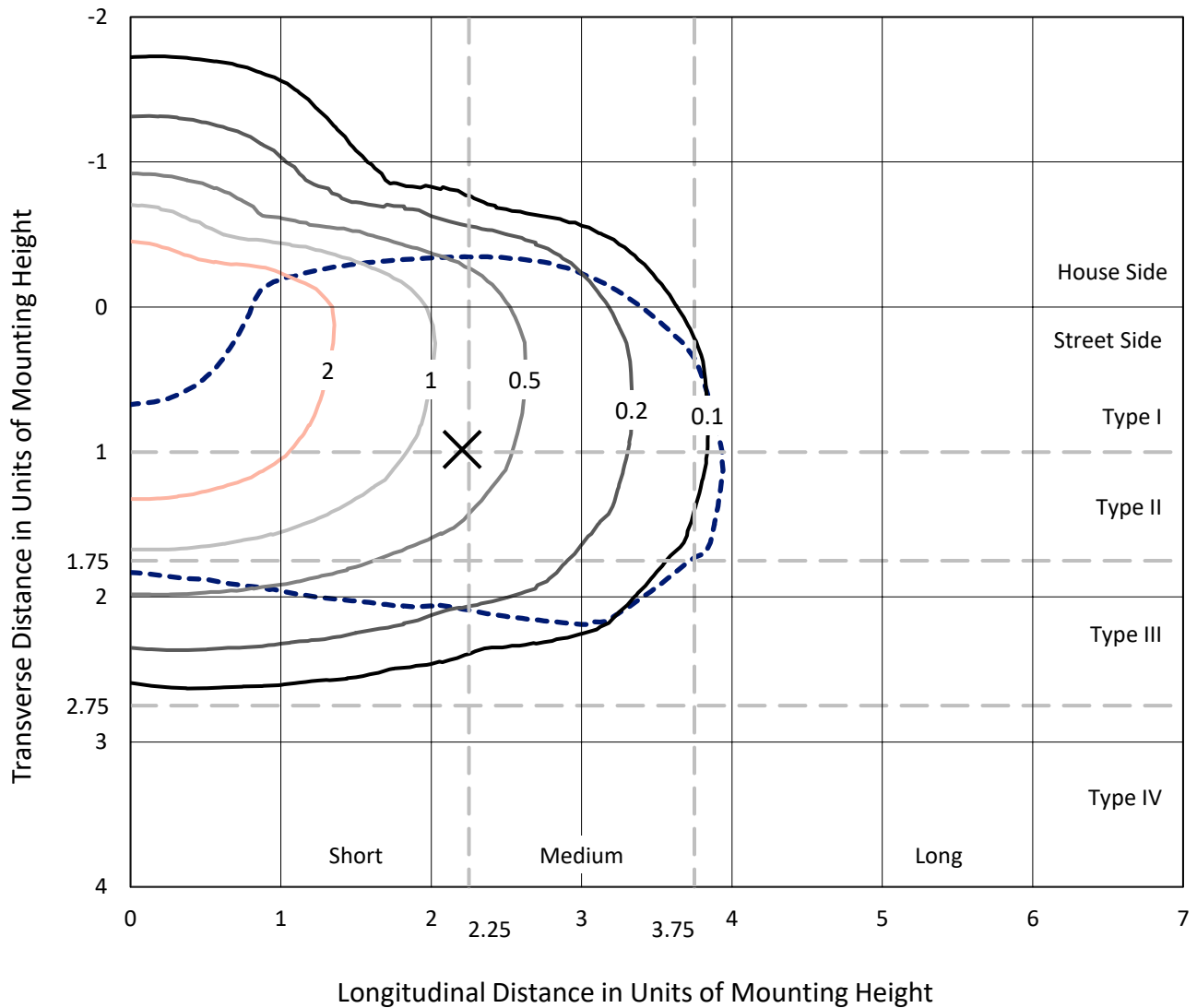
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939767
 CATALOG NUMBER: GALN-SB2C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

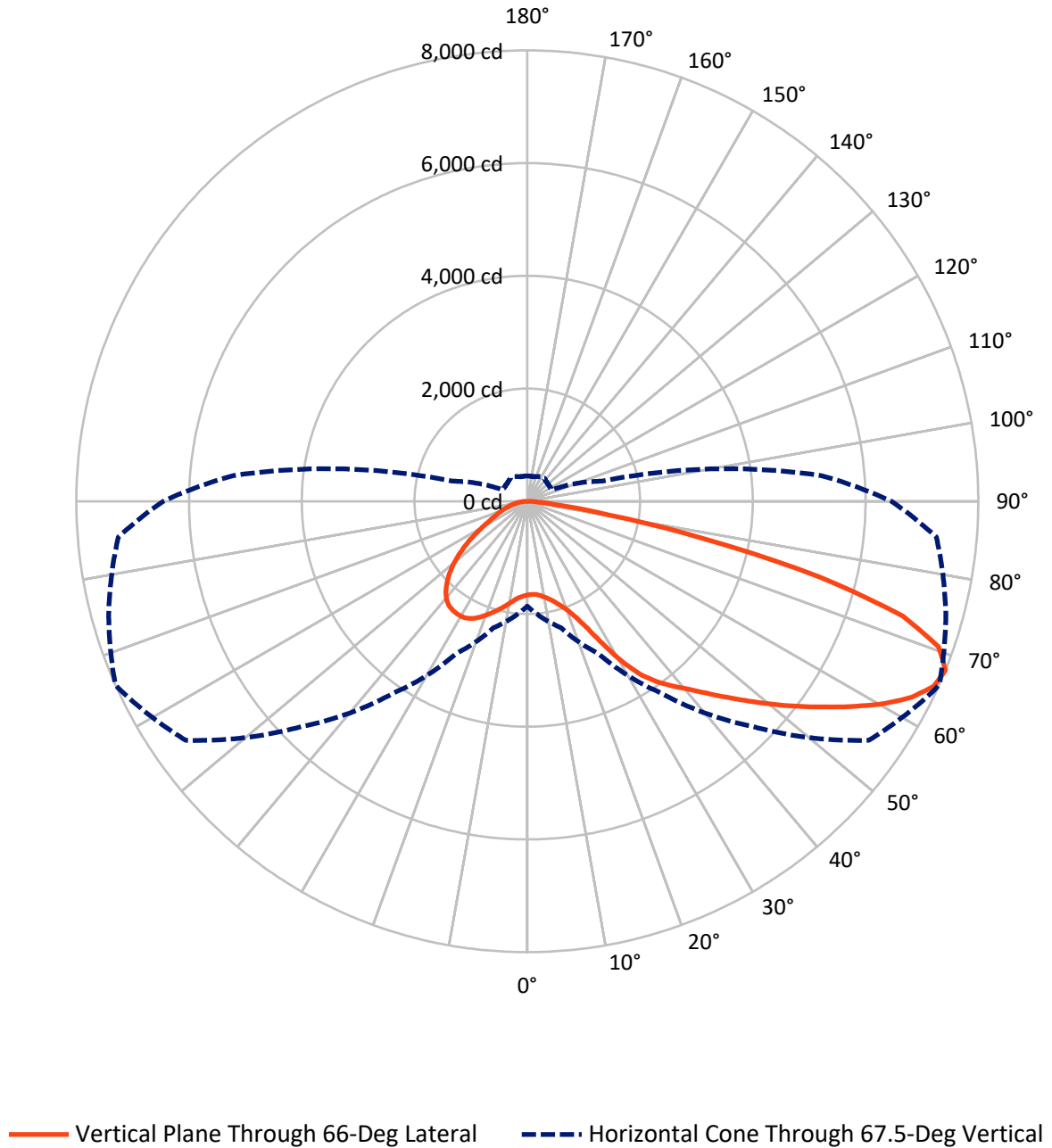
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - N/A

REPORT NUMBER: P939767
CATALOG NUMBER: GALN-SB2C-735-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P939767
 CATALOG NUMBER: GALN-SB2C-735-U-T3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3726.5 | 0.0 | 3726.5 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 11260.5 | 0.0 | 11260.5 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 14987.0 | 0.0 | 14987.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 164.8 | 1.1 |
| 10°-20° | 544.5 | 3.6 |
| 20°-30° | 1049.5 | 7.0 |
| 30°-40° | 1840.1 | 12.3 |
| 40°-50° | 2735.7 | 18.3 |
| 50°-60° | 3467.8 | 23.1 |
| 60°-70° | 3393.1 | 22.6 |
| 70°-80° | 1618.5 | 10.8 |
| 80°-90° | 173.0 | 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° | 14987.0 | 100.0 |
| 0°-180° | 14987.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P939767

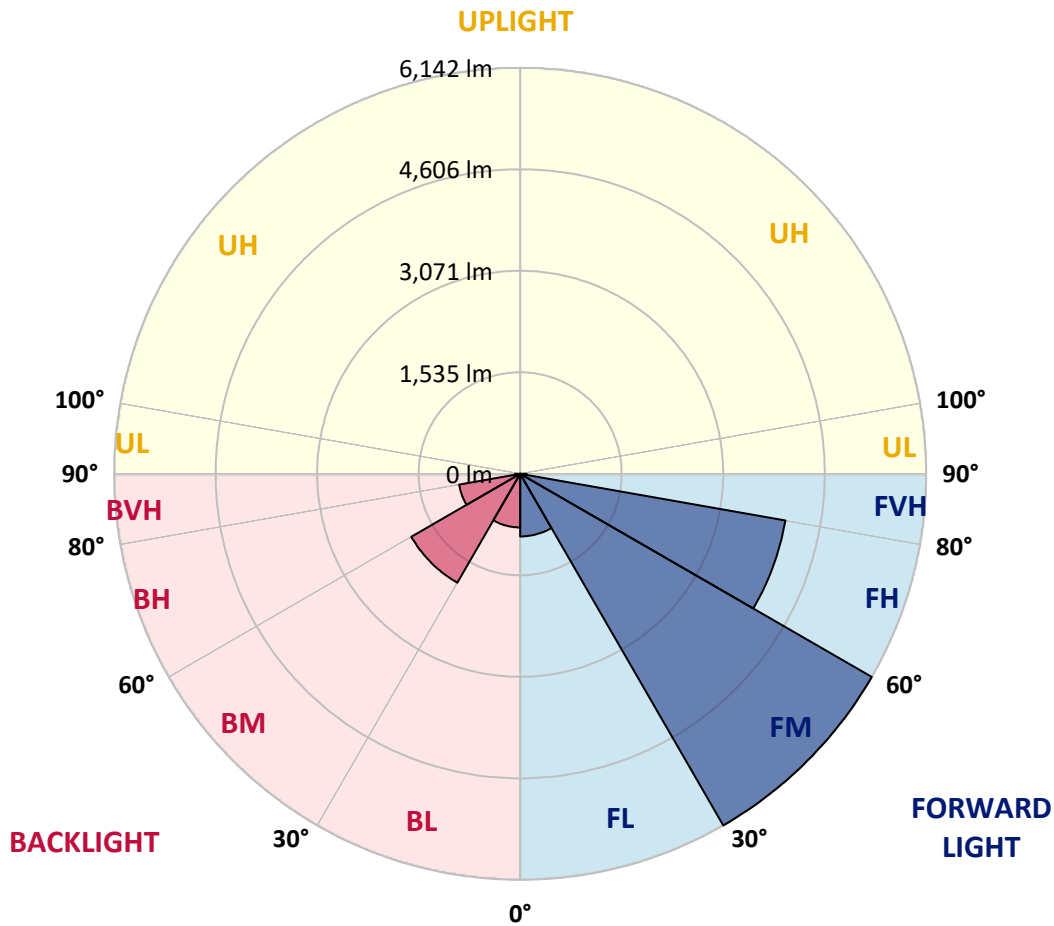
CATALOG NUMBER: GALN-SB2C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 947.0 | 6.3 | | | |
| FM (30°-60°) | 6141.5 | 41.0 | | | |
| FH (60°-80°) | 4073.9 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 98.1 | 0.7 | | | G1/100 |
| BL (0°-30°) | 811.8 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1902.0 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 937.8 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 74.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P939767

CATALOG NUMBER: GALN-SB2C-735-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 |
| 2.5° | 1644.9 | 1654.4 | 1652.0 | 1648.1 | 1647.3 | 1648.9 | 1651.2 | 1653.6 | 1652.8 | 1656.7 |
| 5° | 1640.2 | 1649.7 | 1648.9 | 1648.9 | 1652.0 | 1658.3 | 1662.3 | 1666.2 | 1662.3 | 1667.0 |
| 7.5° | 1643.4 | 1650.4 | 1653.6 | 1656.7 | 1664.6 | 1676.4 | 1685.9 | 1694.5 | 1689.8 | 1695.3 |
| 10° | 1683.5 | 1689.0 | 1692.2 | 1692.2 | 1697.7 | 1711.1 | 1720.5 | 1736.3 | 1732.3 | 1741.0 |
| 12.5° | 1756.7 | 1762.3 | 1762.3 | 1759.1 | 1763.0 | 1771.7 | 1774.9 | 1792.2 | 1785.1 | 1799.3 |
| 15° | 1846.5 | 1857.5 | 1848.9 | 1843.4 | 1844.9 | 1853.6 | 1852.8 | 1866.2 | 1859.1 | 1870.9 |
| 17.5° | 1945.7 | 1959.9 | 1945.7 | 1944.9 | 1941.8 | 1951.2 | 1952.0 | 1963.8 | 1951.2 | 1959.9 |
| 20° | 2063.1 | 2082.7 | 2070.9 | 2074.9 | 2067.8 | 2071.7 | 2075.7 | 2093.0 | 2073.3 | 2079.6 |
| 22.5° | 2228.4 | 2252.0 | 2239.4 | 2254.4 | 2249.7 | 2246.5 | 2245.7 | 2276.4 | 2245.7 | 2248.1 |
| 25° | 2469.4 | 2497.7 | 2475.7 | 2496.1 | 2496.1 | 2506.4 | 2518.2 | 2557.6 | 2506.4 | 2491.4 |
| 27.5° | 2825.3 | 2853.6 | 2810.3 | 2822.9 | 2819.0 | 2844.2 | 2831.6 | 2929.2 | 2874.1 | 2849.7 |
| 30° | 3253.6 | 3304.0 | 3222.1 | 3219.0 | 3215.1 | 3255.2 | 3273.3 | 3337.9 | 3282.0 | 3257.6 |
| 32.5° | 3716.7 | 3769.4 | 3671.8 | 3643.4 | 3628.5 | 3652.9 | 3637.9 | 3689.9 | 3651.3 | 3613.5 |
| 35° | 4206.4 | 4258.4 | 4165.5 | 4110.4 | 4050.5 | 3999.3 | 3945.8 | 3959.2 | 3923.0 | 3865.5 |
| 37.5° | 4669.4 | 4764.7 | 4666.3 | 4607.2 | 4497.0 | 4397.0 | 4247.4 | 4185.2 | 4151.3 | 4098.6 |
| 40° | 5141.1 | 5195.4 | 5120.6 | 5070.2 | 4950.5 | 4793.8 | 4554.5 | 4423.0 | 4377.3 | 4326.1 |
| 42.5° | 5488.4 | 5540.3 | 5500.2 | 5465.5 | 5371.8 | 5189.9 | 4880.5 | 4715.9 | 4649.8 | 4592.3 |
| 45° | 5764.0 | 5802.5 | 5777.3 | 5789.9 | 5749.8 | 5573.4 | 5218.3 | 5030.1 | 4961.6 | 4891.5 |
| 47.5° | 5875.0 | 5915.9 | 5956.1 | 6030.9 | 6099.4 | 5969.5 | 5581.3 | 5370.2 | 5297.8 | 5226.1 |
| 50° | 5862.4 | 5904.1 | 6020.7 | 6179.7 | 6392.3 | 6349.0 | 5964.0 | 5732.5 | 5665.5 | 5583.6 |
| 52.5° | 5761.6 | 5808.8 | 5958.5 | 6223.0 | 6561.6 | 6633.3 | 6353.7 | 6106.5 | 6043.5 | 5945.9 |
| 55° | 5497.0 | 5525.4 | 5749.8 | 6124.6 | 6601.8 | 6831.7 | 6735.6 | 6504.9 | 6441.9 | 6305.7 |
| 57.5° | 5006.5 | 5047.4 | 5374.2 | 5859.2 | 6501.0 | 6966.4 | 7071.1 | 6923.8 | 6863.2 | 6667.1 |
| 60° | 4366.3 | 4431.6 | 4805.7 | 5413.6 | 6244.3 | 6965.6 | 7375.8 | 7335.7 | 7285.3 | 7023.1 |
| 62.5° | 3641.8 | 3717.4 | 4077.3 | 4783.6 | 5795.5 | 6767.9 | 7566.4 | 7680.6 | 7654.6 | 7351.4 |
| 65° | 2796.9 | 2848.9 | 3207.2 | 3968.6 | 5097.0 | 6343.5 | 7588.4 | 7916.0 | 7920.7 | 7601.0 |
| 67.5° | 1862.3 | 2011.9 | 2322.9 | 2978.0 | 4161.5 | 5649.8 | 7394.7 | 7954.6 | 8000.2 | 7686.9 |
| 70° | 908.7 | 1105.5 | 1410.3 | 1935.5 | 2978.0 | 4586.0 | 6888.4 | 7638.0 | 7739.6 | 7436.5 |
| 72.5° | 377.2 | 441.0 | 607.1 | 955.1 | 1709.5 | 3094.6 | 5871.0 | 6779.7 | 6967.9 | 6589.2 |
| 75° | 254.3 | 275.6 | 347.3 | 489.8 | 778.8 | 1526.0 | 4234.0 | 5055.3 | 5358.4 | 4976.5 |
| 77.5° | 196.1 | 209.5 | 252.8 | 342.5 | 463.0 | 577.2 | 2266.2 | 3046.6 | 3203.2 | 2965.4 |
| 80° | 154.3 | 164.6 | 189.0 | 249.6 | 328.4 | 308.7 | 772.5 | 1380.4 | 1470.9 | 1233.9 |
| 82.5° | 133.9 | 137.8 | 135.4 | 169.3 | 218.1 | 180.3 | 253.6 | 509.5 | 562.2 | 407.9 |
| 85° | 96.9 | 107.9 | 112.6 | 104.7 | 115.8 | 91.3 | 103.9 | 180.3 | 198.4 | 177.2 |
| 87.5° | 39.4 | 58.3 | 71.7 | 67.7 | 42.5 | 26.0 | 32.3 | 52.8 | 60.6 | 66.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P939767
 CATALOG NUMBER: GALN-SB2C-735-U-T3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1662.3 | 0° | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 |
| 1663.0 | 2.5° | 1663.8 | 1669.3 | 1673.3 | 1678.0 | 1681.2 | 1685.9 | 1695.3 | 1700.8 | 1701.6 | 1705.6 |
| 1675.6 | 5° | 1678.8 | 1686.7 | 1695.3 | 1707.9 | 1722.1 | 1733.9 | 1752.0 | 1764.6 | 1769.3 | 1773.3 |
| 1706.4 | 7.5° | 1711.1 | 1722.1 | 1737.8 | 1759.9 | 1780.4 | 1796.1 | 1818.2 | 1833.1 | 1848.1 | 1853.6 |
| 1755.2 | 10° | 1759.1 | 1774.9 | 1797.7 | 1827.6 | 1849.7 | 1870.1 | 1893.0 | 1905.6 | 1920.5 | 1926.8 |
| 1813.4 | 12.5° | 1819.0 | 1835.5 | 1865.4 | 1907.1 | 1927.6 | 1941.8 | 1949.7 | 1946.5 | 1949.7 | 1955.2 |
| 1883.5 | 15° | 1887.5 | 1905.6 | 1939.4 | 1984.3 | 1998.5 | 1985.9 | 1968.6 | 1952.8 | 1950.5 | 1952.0 |
| 1968.6 | 17.5° | 1968.6 | 1982.0 | 2021.3 | 2059.1 | 2048.9 | 1996.9 | 1959.1 | 1933.9 | 1921.3 | 1917.4 |
| 2077.2 | 20° | 2082.0 | 2082.0 | 2114.2 | 2137.9 | 2069.4 | 1981.2 | 1922.1 | 1881.2 | 1855.2 | 1844.2 |
| 2225.3 | 22.5° | 2219.8 | 2207.2 | 2227.6 | 2211.1 | 2065.4 | 1937.1 | 1855.2 | 1784.3 | 1744.9 | 1729.2 |
| 2432.4 | 25° | 2394.6 | 2379.6 | 2374.1 | 2271.7 | 2037.1 | 1867.0 | 1733.9 | 1648.1 | 1613.4 | 1604.8 |
| 2730.8 | 27.5° | 2658.4 | 2620.6 | 2548.9 | 2304.8 | 1985.1 | 1756.7 | 1592.2 | 1512.6 | 1493.0 | 1493.7 |
| 3114.3 | 30° | 3009.5 | 2933.9 | 2758.4 | 2310.3 | 1900.1 | 1600.8 | 1447.3 | 1390.6 | 1381.1 | 1385.1 |
| 3436.3 | 32.5° | 3334.7 | 3263.1 | 2972.5 | 2285.1 | 1769.3 | 1448.1 | 1317.4 | 1279.6 | 1265.4 | 1270.1 |
| 3682.0 | 35° | 3589.9 | 3570.2 | 3171.0 | 2249.7 | 1608.7 | 1304.8 | 1200.8 | 1168.5 | 1141.0 | 1134.7 |
| 3913.5 | 37.5° | 3830.8 | 3823.0 | 3319.8 | 2200.1 | 1449.7 | 1203.2 | 1107.1 | 1064.6 | 1024.4 | 1002.4 |
| 4169.4 | 40° | 4095.4 | 4087.5 | 3417.4 | 2123.7 | 1308.7 | 1115.0 | 1022.9 | 967.0 | 917.4 | 877.2 |
| 4459.2 | 42.5° | 4393.0 | 4346.6 | 3463.9 | 2014.2 | 1189.0 | 1040.2 | 954.4 | 878.8 | 813.4 | 776.4 |
| 4786.8 | 45° | 4718.3 | 4613.5 | 3463.1 | 1874.9 | 1088.2 | 971.7 | 881.1 | 774.0 | 713.4 | 678.8 |
| 5123.0 | 47.5° | 5063.1 | 4868.7 | 3420.6 | 1720.5 | 990.6 | 896.1 | 767.7 | 685.8 | 645.7 | 624.4 |
| 5488.4 | 50° | 5419.1 | 5107.2 | 3348.1 | 1543.4 | 890.6 | 810.3 | 696.9 | 641.0 | 610.3 | 590.6 |
| 5850.6 | 52.5° | 5753.7 | 5323.8 | 3260.7 | 1342.6 | 789.0 | 726.8 | 665.4 | 622.1 | 589.8 | 567.7 |
| 6201.8 | 55° | 6064.8 | 5510.4 | 3137.1 | 1137.0 | 706.3 | 670.9 | 650.4 | 614.2 | 577.2 | 551.2 |
| 6558.5 | 57.5° | 6341.1 | 5631.7 | 2923.7 | 944.1 | 647.3 | 632.3 | 634.7 | 600.8 | 558.3 | 536.2 |
| 6909.7 | 60° | 6571.1 | 5720.7 | 2608.0 | 765.4 | 599.2 | 594.5 | 610.3 | 575.6 | 526.0 | 500.8 |
| 7206.5 | 62.5° | 6708.9 | 5719.1 | 2220.5 | 626.8 | 558.3 | 559.9 | 578.0 | 544.1 | 493.7 | 470.1 |
| 7361.6 | 65° | 6697.1 | 5578.9 | 1795.3 | 536.2 | 518.9 | 520.5 | 544.1 | 509.5 | 466.9 | 452.8 |
| 7283.7 | 67.5° | 6460.0 | 5237.2 | 1377.2 | 477.2 | 475.6 | 482.7 | 510.3 | 485.8 | 450.4 | 448.8 |
| 6819.1 | 70° | 5818.3 | 4527.7 | 992.2 | 429.9 | 430.7 | 441.0 | 477.2 | 470.9 | 441.7 | 444.9 |
| 5733.2 | 72.5° | 4665.5 | 3452.1 | 666.2 | 380.3 | 381.1 | 397.7 | 445.7 | 459.1 | 433.1 | 474.8 |
| 4067.8 | 75° | 3107.2 | 2152.8 | 428.4 | 327.6 | 328.4 | 349.6 | 418.1 | 436.2 | 409.5 | 473.2 |
| 2116.6 | 77.5° | 1493.0 | 967.7 | 310.2 | 275.6 | 275.6 | 295.3 | 361.4 | 390.6 | 348.8 | 367.7 |
| 680.3 | 80° | 515.8 | 363.8 | 244.1 | 222.1 | 217.3 | 230.7 | 304.7 | 338.6 | 300.8 | 277.2 |
| 222.1 | 82.5° | 203.2 | 189.0 | 196.1 | 172.4 | 156.7 | 165.4 | 237.0 | 279.5 | 221.3 | 200.0 |
| 125.2 | 85° | 116.5 | 122.8 | 138.6 | 114.2 | 90.6 | 101.6 | 174.0 | 200.8 | 166.9 | 147.2 |
| 40.9 | 87.5° | 31.5 | 43.3 | 63.8 | 59.1 | 40.9 | 43.3 | 82.7 | 111.0 | 96.1 | 74.0 |
| 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> |
|-------------|
| 1662.3 |
| 1704.8 |
| 1772.5 |
| 1854.4 |
| 1930.0 |
| 1956.8 |
| 1957.5 |
| 1922.9 |
| 1841.8 |
| 1726.8 |
| 1606.3 |
| 1496.1 |
| 1398.5 |
| 1276.4 |
| 1139.4 |
| 1003.2 |
| 881.1 |
| 778.8 |
| 677.2 |
| 619.7 |
| 583.5 |
| 558.3 |
| 541.0 |
| 522.1 |
| 489.8 |
| 463.0 |
| 452.0 |
| 451.2 |
| 444.1 |
| 481.1 |
| 477.2 |
| 337.0 |
| 259.9 |
| 199.2 |
| 150.4 |
| 76.4 |
| 0.0 |

F REPORT)