

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: P940067

Luminaire Tested: **GALN-SB2D-950-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940067
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-SB2D-950-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14166 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

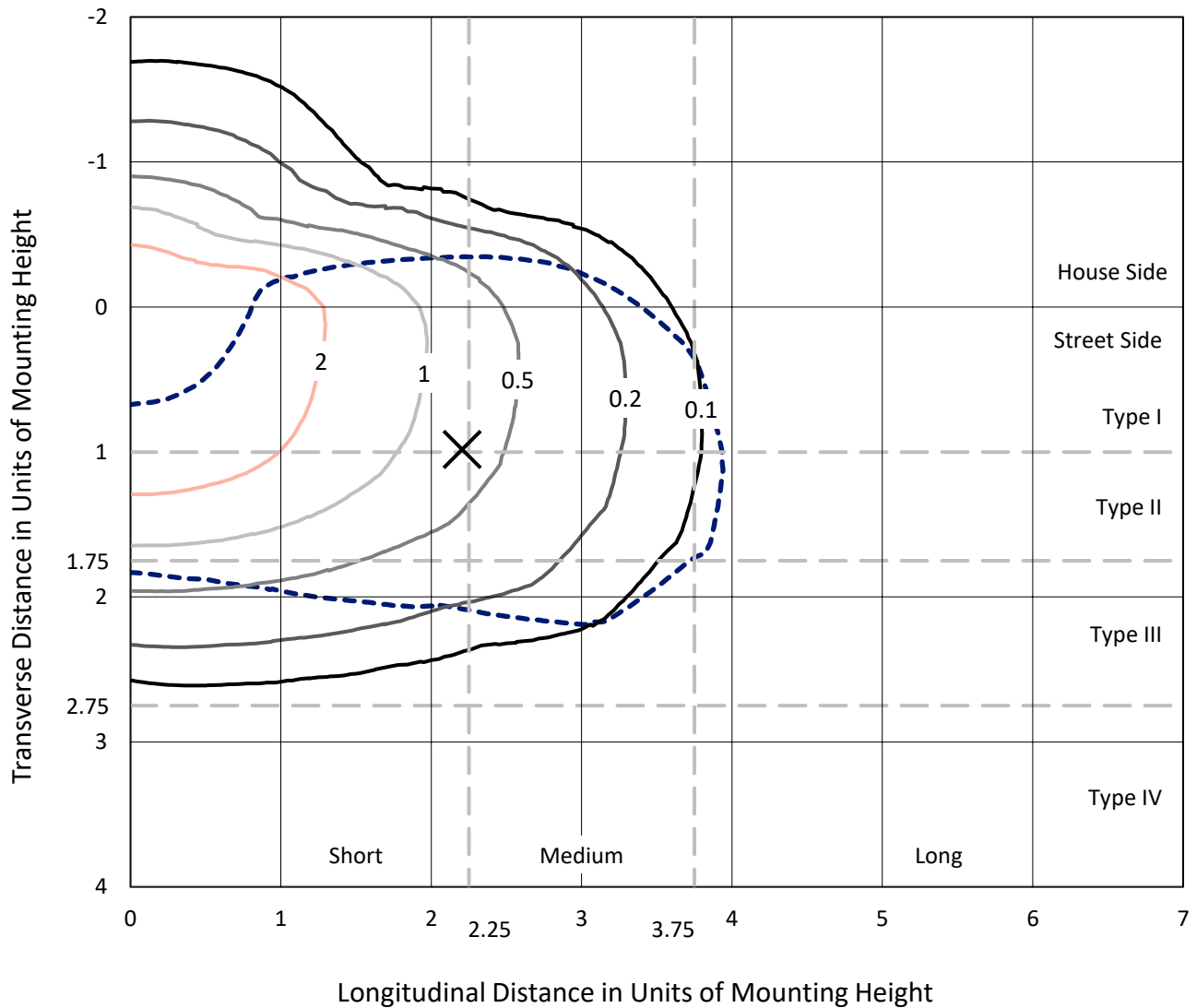
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940067
 CATALOG NUMBER: GALN-SB2D-950-U-T3

Iso-Footcandle Lines of Horizontal Illumination

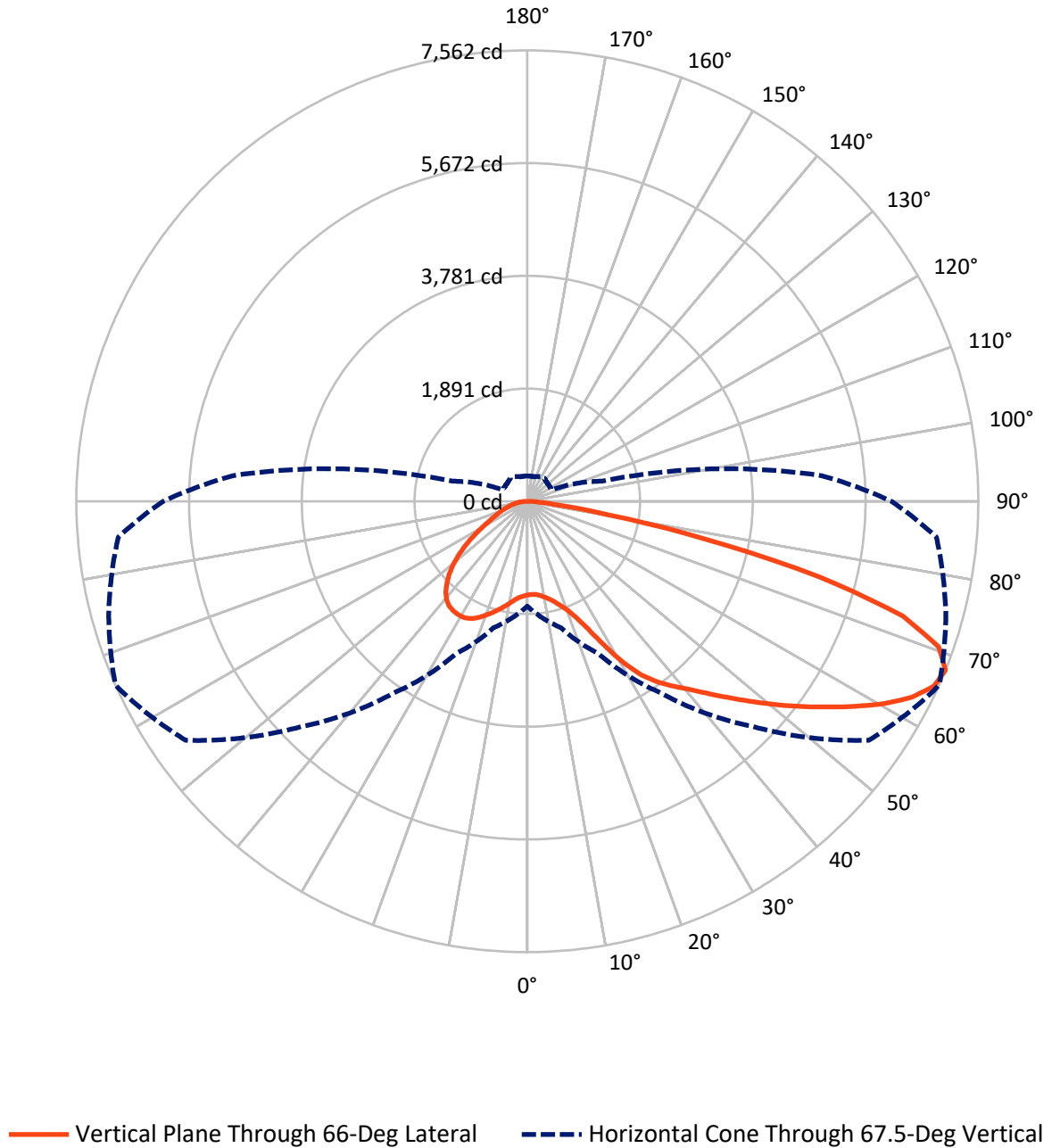
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P940067
CATALOG NUMBER: GALN-SB2D-950-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P940067
 CATALOG NUMBER: GALN-SB2D-950-U-T3

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3522.3 | 0.0 | 3522.3 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 10643.7 | 0.0 | 10643.7 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 14166.0 | 0.0 | 14166.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.8 | 1.1 |
| 10°-20° | 514.7 | 3.6 |
| 20°-30° | 992.0 | 7.0 |
| 30°-40° | 1739.3 | 12.3 |
| 40°-50° | 2585.8 | 18.3 |
| 50°-60° | 3277.8 | 23.1 |
| 60°-70° | 3207.2 | 22.6 |
| 70°-80° | 1529.9 | 10.8 |
| 80°-90° | 163.5 | 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° | 14166.0 | 100.0 |
| 0°-180° | 14166.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P940067

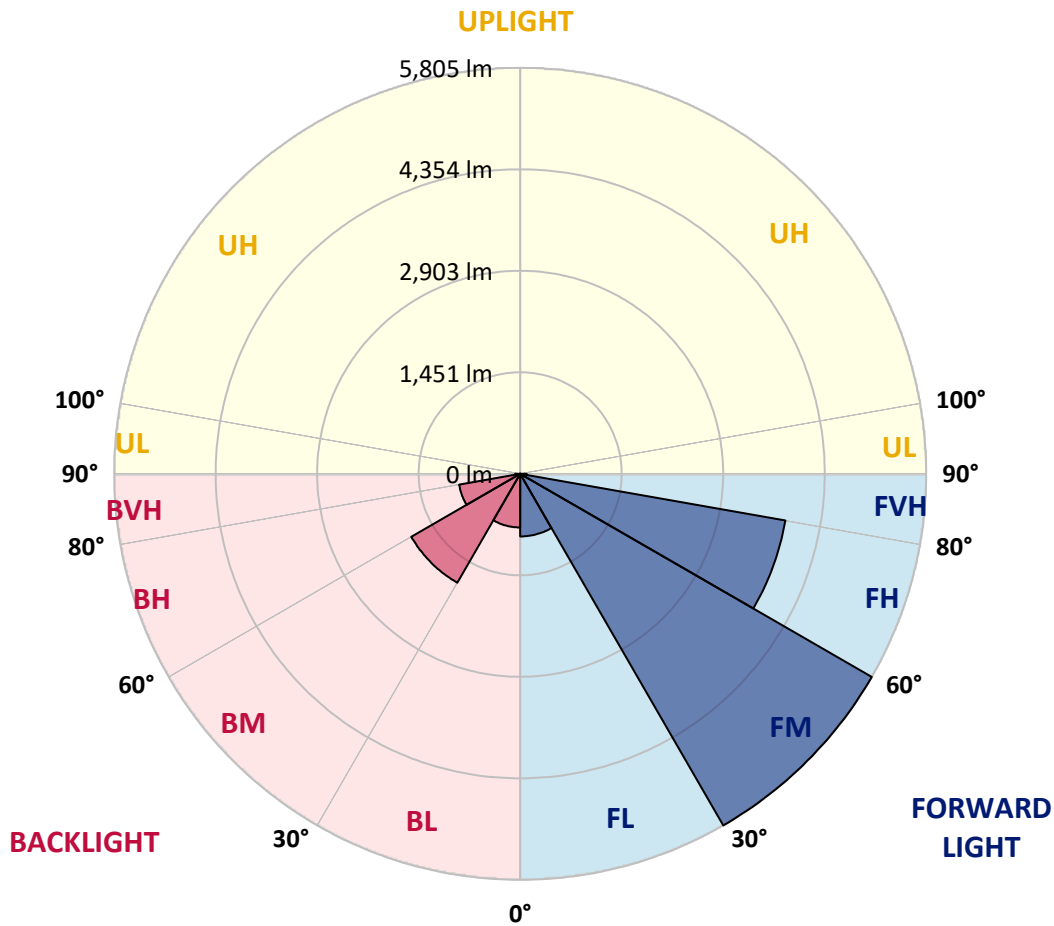
CATALOG NUMBER: GALN-SB2D-950-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 895.2 | 6.3 | | | |
| FM (30°-60°) | 5805.1 | 41.0 | | | |
| FH (60°-80°) | 3850.7 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 92.7 | 0.7 | | | G1/100 |
| BL (0°-30°) | 767.3 | 5.4 | B2/1000 | | |
| BM (30°-60°) | 1797.8 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 886.4 | 6.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 70.8 | 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: P940067

CATALOG NUMBER: GALN-SB2D-950-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 |
| 2.5° | 1554.8 | 1563.8 | 1561.5 | 1557.8 | 1557.1 | 1558.5 | 1560.8 | 1563.0 | 1562.3 | 1566.0 |
| 5° | 1550.4 | 1559.3 | 1558.5 | 1558.5 | 1561.5 | 1567.5 | 1571.2 | 1574.9 | 1571.2 | 1575.7 |
| 7.5° | 1553.3 | 1560.0 | 1563.0 | 1566.0 | 1573.4 | 1584.6 | 1593.5 | 1601.7 | 1597.2 | 1602.5 |
| 10° | 1591.3 | 1596.5 | 1599.5 | 1599.5 | 1604.7 | 1617.3 | 1626.3 | 1641.2 | 1637.4 | 1645.6 |
| 12.5° | 1660.5 | 1665.7 | 1665.7 | 1662.7 | 1666.5 | 1674.7 | 1677.6 | 1694.0 | 1687.3 | 1700.7 |
| 15° | 1745.4 | 1755.8 | 1747.6 | 1742.4 | 1743.9 | 1752.1 | 1751.3 | 1764.0 | 1757.3 | 1768.4 |
| 17.5° | 1839.1 | 1852.5 | 1839.1 | 1838.4 | 1835.4 | 1844.4 | 1845.1 | 1856.3 | 1844.4 | 1852.5 |
| 20° | 1950.0 | 1968.6 | 1957.5 | 1961.2 | 1954.5 | 1958.2 | 1961.9 | 1978.3 | 1959.7 | 1965.7 |
| 22.5° | 2106.3 | 2128.7 | 2116.8 | 2130.9 | 2126.4 | 2123.5 | 2122.7 | 2151.7 | 2122.7 | 2124.9 |
| 25° | 2334.1 | 2360.9 | 2340.0 | 2359.4 | 2359.4 | 2369.1 | 2380.2 | 2417.5 | 2369.1 | 2354.9 |
| 27.5° | 2670.5 | 2697.3 | 2656.4 | 2668.3 | 2664.6 | 2688.4 | 2676.5 | 2768.8 | 2716.7 | 2693.6 |
| 30° | 3075.4 | 3123.0 | 3045.6 | 3042.7 | 3038.9 | 3076.9 | 3094.0 | 3155.0 | 3102.2 | 3079.1 |
| 32.5° | 3513.0 | 3562.9 | 3470.6 | 3443.8 | 3429.7 | 3452.8 | 3438.6 | 3487.7 | 3451.3 | 3415.5 |
| 35° | 3976.0 | 4025.1 | 3937.3 | 3885.2 | 3828.6 | 3780.2 | 3729.6 | 3742.3 | 3708.1 | 3653.7 |
| 37.5° | 4413.6 | 4503.7 | 4410.7 | 4354.8 | 4250.6 | 4156.1 | 4014.7 | 3955.9 | 3923.9 | 3874.0 |
| 40° | 4859.5 | 4910.8 | 4840.1 | 4792.5 | 4679.4 | 4531.2 | 4305.0 | 4180.7 | 4137.5 | 4089.1 |
| 42.5° | 5187.7 | 5236.8 | 5198.9 | 5166.1 | 5077.5 | 4905.6 | 4613.1 | 4457.6 | 4395.0 | 4340.7 |
| 45° | 5448.2 | 5484.7 | 5460.9 | 5472.8 | 5434.8 | 5268.1 | 4932.4 | 4754.5 | 4689.8 | 4623.5 |
| 47.5° | 5553.1 | 5591.9 | 5629.8 | 5700.5 | 5765.3 | 5642.5 | 5275.5 | 5076.1 | 5007.6 | 4939.9 |
| 50° | 5541.2 | 5580.7 | 5690.8 | 5841.2 | 6042.1 | 6001.2 | 5637.3 | 5418.4 | 5355.2 | 5277.8 |
| 52.5° | 5446.0 | 5490.6 | 5632.0 | 5882.1 | 6202.2 | 6269.9 | 6005.7 | 5772.0 | 5712.4 | 5620.1 |
| 55° | 5195.9 | 5222.7 | 5434.8 | 5789.1 | 6240.1 | 6457.5 | 6366.7 | 6148.6 | 6089.0 | 5960.3 |
| 57.5° | 4732.2 | 4770.9 | 5079.8 | 5538.3 | 6144.9 | 6584.7 | 6683.7 | 6544.5 | 6487.2 | 6301.9 |
| 60° | 4127.1 | 4188.9 | 4542.4 | 5117.0 | 5902.2 | 6584.0 | 6971.8 | 6933.8 | 6886.2 | 6638.3 |
| 62.5° | 3442.3 | 3513.8 | 3853.9 | 4521.6 | 5478.0 | 6397.2 | 7151.9 | 7259.8 | 7235.2 | 6948.7 |
| 65° | 2643.7 | 2692.8 | 3031.5 | 3751.2 | 4817.8 | 5996.0 | 7172.7 | 7482.3 | 7486.8 | 7184.6 |
| 67.5° | 1760.2 | 1901.7 | 2195.7 | 2814.9 | 3933.6 | 5340.3 | 6989.6 | 7518.8 | 7562.0 | 7265.8 |
| 70° | 858.9 | 1045.0 | 1333.0 | 1829.5 | 2814.9 | 4334.7 | 6511.1 | 7219.6 | 7315.6 | 7029.1 |
| 72.5° | 356.5 | 416.8 | 573.8 | 902.8 | 1615.9 | 2925.1 | 5549.4 | 6408.3 | 6586.2 | 6228.2 |
| 75° | 240.4 | 260.5 | 328.2 | 462.9 | 736.1 | 1442.4 | 4002.0 | 4778.3 | 5064.9 | 4703.9 |
| 77.5° | 185.3 | 198.0 | 238.9 | 323.8 | 437.6 | 545.6 | 2142.1 | 2879.7 | 3027.8 | 2803.0 |
| 80° | 145.9 | 155.6 | 178.6 | 235.9 | 310.4 | 291.8 | 730.1 | 1304.7 | 1390.3 | 1166.3 |
| 82.5° | 126.5 | 130.3 | 128.0 | 160.0 | 206.2 | 170.4 | 239.7 | 481.6 | 531.4 | 385.5 |
| 85° | 91.5 | 102.0 | 106.4 | 99.0 | 109.4 | 86.3 | 98.2 | 170.4 | 187.6 | 167.5 |
| 87.5° | 37.2 | 55.1 | 67.7 | 64.0 | 40.2 | 24.6 | 30.5 | 49.9 | 57.3 | 62.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P940067
 CATALOG NUMBER: GALN-SB2D-950-U-T3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1571.2 | 0° | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 | 1571.2 |
| 1571.9 | 2.5° | 1572.7 | 1577.9 | 1581.6 | 1586.1 | 1589.1 | 1593.5 | 1602.5 | 1607.7 | 1608.4 | 1612.1 |
| 1583.8 | 5° | 1586.8 | 1594.3 | 1602.5 | 1614.4 | 1627.8 | 1638.9 | 1656.0 | 1668.0 | 1672.4 | 1676.1 |
| 1612.9 | 7.5° | 1617.3 | 1627.8 | 1642.6 | 1663.5 | 1682.8 | 1697.7 | 1718.6 | 1732.7 | 1746.8 | 1752.1 |
| 1659.0 | 10° | 1662.7 | 1677.6 | 1699.2 | 1727.5 | 1748.3 | 1767.7 | 1789.3 | 1801.2 | 1815.3 | 1821.3 |
| 1714.1 | 12.5° | 1719.3 | 1734.9 | 1763.2 | 1802.7 | 1822.0 | 1835.4 | 1842.9 | 1839.9 | 1842.9 | 1848.1 |
| 1780.3 | 15° | 1784.1 | 1801.2 | 1833.2 | 1875.6 | 1889.0 | 1877.1 | 1860.7 | 1845.8 | 1843.6 | 1845.1 |
| 1860.7 | 17.5° | 1860.7 | 1873.4 | 1910.6 | 1946.3 | 1936.6 | 1887.5 | 1851.8 | 1828.0 | 1816.1 | 1812.3 |
| 1963.4 | 20° | 1967.9 | 1967.9 | 1998.4 | 2020.7 | 1956.0 | 1872.6 | 1816.8 | 1778.1 | 1753.5 | 1743.1 |
| 2103.4 | 22.5° | 2098.2 | 2086.2 | 2105.6 | 2090.0 | 1952.3 | 1831.0 | 1753.5 | 1686.6 | 1649.3 | 1634.5 |
| 2299.1 | 25° | 2263.4 | 2249.2 | 2244.0 | 2147.3 | 1925.5 | 1764.7 | 1638.9 | 1557.8 | 1525.1 | 1516.9 |
| 2581.2 | 27.5° | 2512.7 | 2477.0 | 2409.3 | 2178.5 | 1876.4 | 1660.5 | 1505.0 | 1429.8 | 1411.2 | 1411.9 |
| 2943.7 | 30° | 2844.7 | 2773.2 | 2607.2 | 2183.7 | 1796.0 | 1513.1 | 1368.0 | 1314.4 | 1305.5 | 1309.2 |
| 3248.1 | 32.5° | 3152.1 | 3084.3 | 2809.7 | 2159.9 | 1672.4 | 1368.7 | 1245.2 | 1209.5 | 1196.1 | 1200.5 |
| 3480.3 | 35° | 3393.2 | 3374.6 | 2997.3 | 2126.4 | 1520.6 | 1233.3 | 1135.0 | 1104.5 | 1078.5 | 1072.5 |
| 3699.1 | 37.5° | 3621.0 | 3613.5 | 3137.9 | 2079.5 | 1370.2 | 1137.3 | 1046.5 | 1006.3 | 968.3 | 947.5 |
| 3941.0 | 40° | 3871.1 | 3863.6 | 3230.2 | 2007.4 | 1237.0 | 1053.9 | 966.8 | 914.0 | 867.1 | 829.1 |
| 4214.9 | 42.5° | 4152.4 | 4108.5 | 3274.1 | 1903.9 | 1123.9 | 983.2 | 902.1 | 830.6 | 768.9 | 733.9 |
| 4524.5 | 45° | 4459.8 | 4360.8 | 3273.4 | 1772.2 | 1028.6 | 918.5 | 832.9 | 731.6 | 674.3 | 641.6 |
| 4842.4 | 47.5° | 4785.8 | 4601.9 | 3233.2 | 1626.3 | 936.3 | 847.0 | 725.7 | 648.3 | 610.3 | 590.2 |
| 5187.7 | 50° | 5122.2 | 4827.5 | 3164.7 | 1458.8 | 841.8 | 765.9 | 658.7 | 605.9 | 576.8 | 558.2 |
| 5530.1 | 52.5° | 5438.5 | 5032.1 | 3082.1 | 1269.0 | 745.8 | 687.0 | 628.9 | 588.0 | 557.5 | 536.6 |
| 5862.0 | 55° | 5732.5 | 5208.5 | 2965.3 | 1074.8 | 667.6 | 634.1 | 614.8 | 580.5 | 545.6 | 521.0 |
| 6199.2 | 57.5° | 5993.8 | 5323.2 | 2763.5 | 892.4 | 611.8 | 597.7 | 599.9 | 567.9 | 527.7 | 506.9 |
| 6531.1 | 60° | 6211.1 | 5407.3 | 2465.1 | 723.5 | 566.4 | 561.9 | 576.8 | 544.1 | 497.2 | 473.4 |
| 6811.7 | 62.5° | 6341.4 | 5405.8 | 2098.9 | 592.5 | 527.7 | 529.2 | 546.3 | 514.3 | 466.7 | 444.3 |
| 6958.4 | 65° | 6330.2 | 5273.3 | 1697.0 | 506.9 | 490.5 | 492.0 | 514.3 | 481.6 | 441.4 | 428.0 |
| 6884.7 | 67.5° | 6106.2 | 4950.3 | 1301.8 | 451.0 | 449.6 | 456.2 | 482.3 | 459.2 | 425.7 | 424.2 |
| 6445.6 | 70° | 5499.6 | 4279.7 | 937.8 | 406.4 | 407.1 | 416.8 | 451.0 | 445.1 | 417.5 | 420.5 |
| 5419.2 | 72.5° | 4409.9 | 3263.0 | 629.7 | 359.5 | 360.2 | 375.9 | 421.3 | 433.9 | 409.4 | 448.8 |
| 3845.0 | 75° | 2937.0 | 2034.9 | 404.9 | 309.6 | 310.4 | 330.5 | 395.2 | 412.3 | 387.0 | 447.3 |
| 2000.7 | 77.5° | 1411.2 | 914.7 | 293.3 | 260.5 | 260.5 | 279.1 | 341.6 | 369.2 | 329.7 | 347.6 |
| 643.1 | 80° | 487.5 | 343.9 | 230.7 | 209.9 | 205.4 | 218.1 | 288.0 | 320.0 | 284.3 | 262.0 |
| 209.9 | 82.5° | 192.0 | 178.6 | 185.3 | 163.0 | 148.1 | 156.3 | 224.0 | 264.2 | 209.1 | 189.0 |
| 118.3 | 85° | 110.2 | 116.1 | 131.0 | 107.9 | 85.6 | 96.0 | 164.5 | 189.8 | 157.8 | 139.2 |
| 38.7 | 87.5° | 29.8 | 40.9 | 60.3 | 55.8 | 38.7 | 40.9 | 78.2 | 104.9 | 90.8 | 70.0 |
| 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> |
|-------------|
| 1571.2 |
| 1611.4 |
| 1675.4 |
| 1752.8 |
| 1824.3 |
| 1849.6 |
| 1850.3 |
| 1817.6 |
| 1740.9 |
| 1632.2 |
| 1518.4 |
| 1414.2 |
| 1321.9 |
| 1206.5 |
| 1077.0 |
| 948.2 |
| 832.9 |
| 736.1 |
| 640.1 |
| 585.8 |
| 551.5 |
| 527.7 |
| 511.3 |
| 493.5 |
| 462.9 |
| 437.6 |
| 427.2 |
| 426.5 |
| 419.8 |
| 454.8 |
| 451.0 |
| 318.6 |
| 245.6 |
| 188.3 |
| 142.2 |
| 72.2 |
| 0.0 |

F REPORT)