

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: P945759

Luminaire Tested: **GALN-SB1C-840-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5808 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

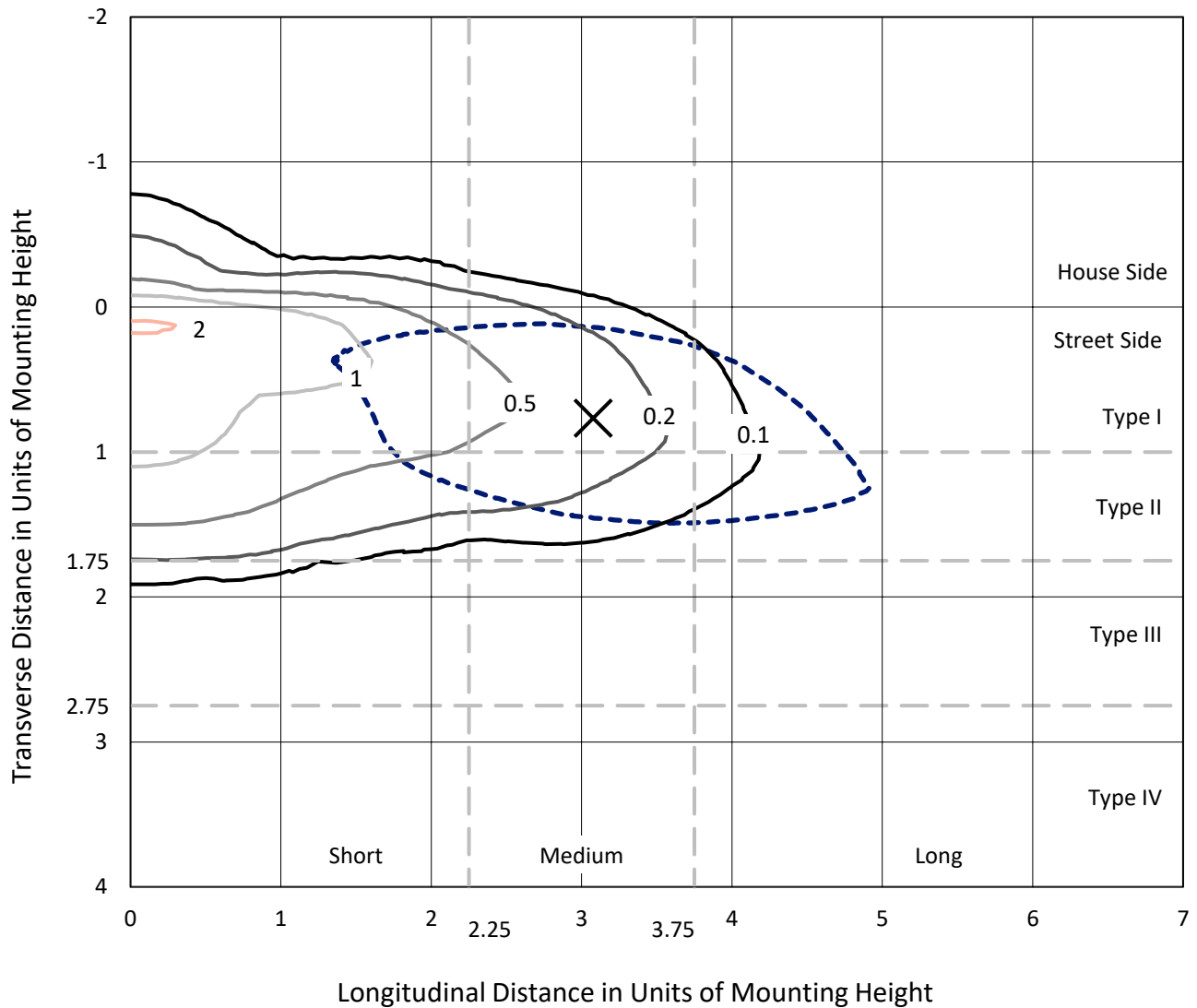
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945759
 CATALOG NUMBER: GALN-SB1C-840-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

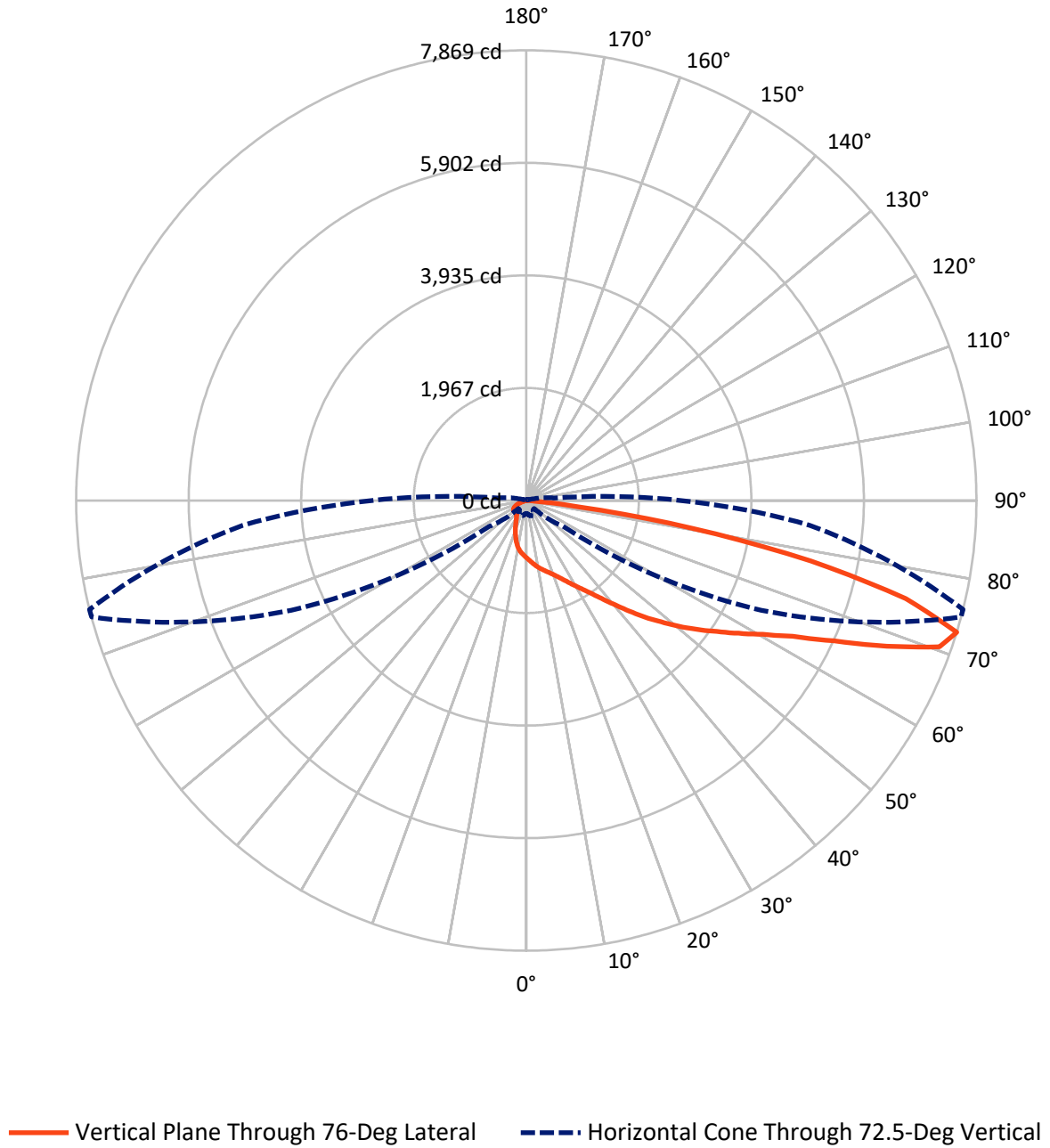
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P945759
CATALOG NUMBER: GALN-SB1C-840-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945759

CATALOG NUMBER: GALN-SB1C-840-U-SL2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 594.5 | 0.0 | 594.5 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 5213.6 | 0.0 | 5213.6 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 5808.0 | 0.0 | 5808.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.3 | 1.6 |
| 10°-20° | 244.8 | 4.2 |
| 20°-30° | 387.4 | 6.7 |
| 30°-40° | 599.3 | 10.3 |
| 40°-50° | 910.3 | 15.7 |
| 50°-60° | 1255.0 | 21.6 |
| 60°-70° | 1325.8 | 22.8 |
| 70°-80° | 909.5 | 15.7 |
| 80°-90° | 84.7 | 1.5 |
| 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° | 5808.0 | 100.0 |
| 0°-180° | 5808.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P945759

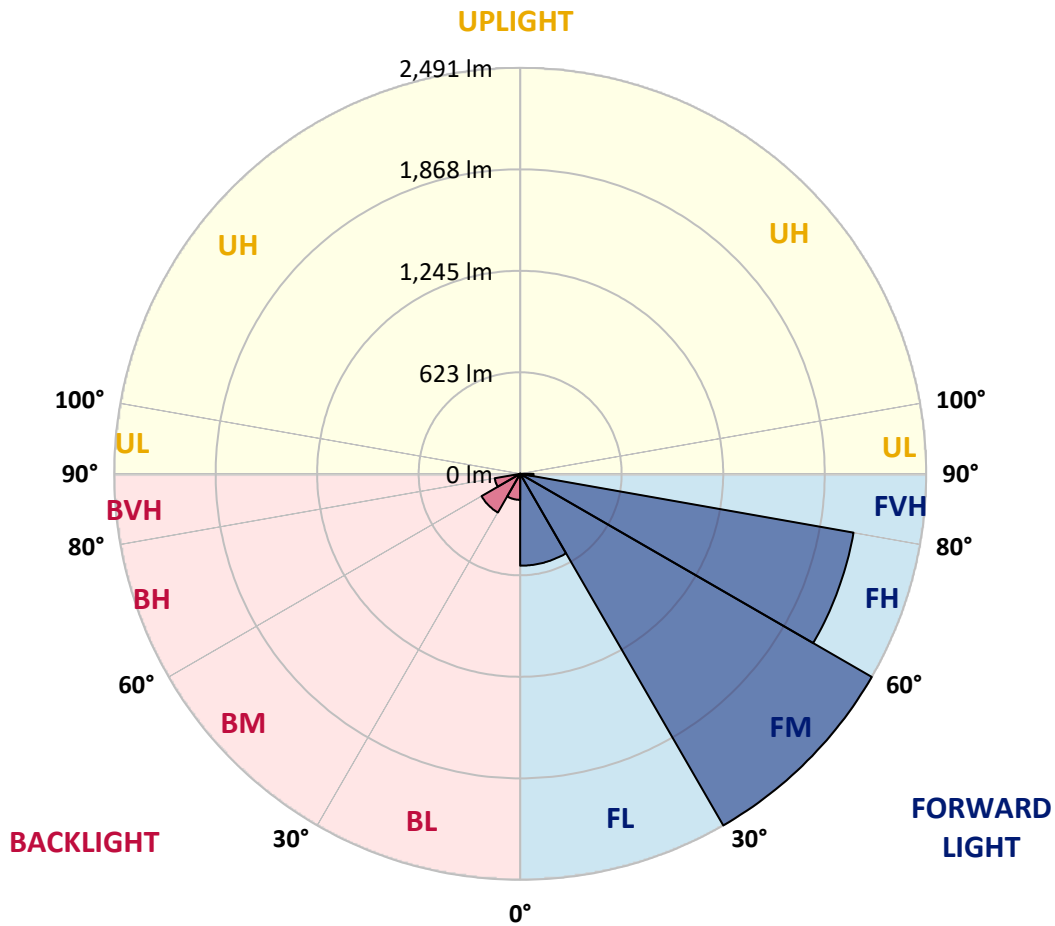
CATALOG NUMBER: GALN-SB1C-840-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 563.7 | 9.7 | | | |
| FM (30°-60°) | 2490.9 | 42.9 | | | |
| FH (60°-80°) | 2076.6 | 35.8 | | | G2/5000 |
| FVH (80°-90°) | 82.4 | 1.4 | | | G1/100 |
| BL (0°-30°) | 159.8 | 2.8 | B1/500 | | |
| BM (30°-60°) | 273.7 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 158.7 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 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 Medium



REPORT NUMBER: P945759
 CATALOG NUMBER: GALN-SB1C-840-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 |
| 2.5° | 1166.8 | 1151.4 | 1154.4 | 1138.9 | 1131.8 | 1114.4 | 1096.4 | 1072.6 | 1046.2 | 1046.2 |
| 5° | 1289.6 | 1279.8 | 1279.8 | 1261.7 | 1247.8 | 1220.7 | 1188.3 | 1146.5 | 1096.7 | 1091.8 |
| 7.5° | 1365.0 | 1359.0 | 1362.7 | 1352.2 | 1340.9 | 1312.6 | 1274.2 | 1219.6 | 1149.1 | 1143.1 |
| 10° | 1379.7 | 1379.3 | 1389.8 | 1392.9 | 1400.4 | 1386.1 | 1351.8 | 1288.9 | 1200.7 | 1192.0 |
| 12.5° | 1322.8 | 1315.6 | 1341.6 | 1372.1 | 1415.1 | 1434.3 | 1416.6 | 1352.2 | 1247.8 | 1235.8 |
| 15° | 1229.3 | 1230.9 | 1255.7 | 1302.8 | 1374.4 | 1443.0 | 1466.0 | 1414.0 | 1295.7 | 1281.3 |
| 17.5° | 1175.8 | 1170.2 | 1191.7 | 1233.9 | 1313.0 | 1409.8 | 1488.9 | 1471.6 | 1346.5 | 1330.3 |
| 20° | 1169.4 | 1169.1 | 1174.0 | 1193.2 | 1253.5 | 1362.3 | 1486.3 | 1527.7 | 1406.4 | 1387.6 |
| 22.5° | 1213.9 | 1213.1 | 1209.0 | 1205.2 | 1221.8 | 1316.0 | 1475.0 | 1581.2 | 1478.0 | 1457.7 |
| 25° | 1282.1 | 1281.0 | 1274.6 | 1251.6 | 1235.4 | 1291.1 | 1464.4 | 1631.0 | 1562.8 | 1540.2 |
| 27.5° | 1365.4 | 1364.6 | 1352.9 | 1318.3 | 1276.4 | 1293.4 | 1459.2 | 1682.2 | 1660.7 | 1638.5 |
| 30° | 1467.5 | 1466.0 | 1441.8 | 1392.9 | 1338.2 | 1329.2 | 1466.3 | 1739.9 | 1762.8 | 1745.9 |
| 32.5° | 1595.6 | 1591.4 | 1559.8 | 1485.9 | 1409.4 | 1377.0 | 1479.9 | 1799.0 | 1883.8 | 1867.9 |
| 35° | 1694.6 | 1688.2 | 1669.8 | 1604.6 | 1491.9 | 1435.8 | 1511.5 | 1869.1 | 2029.2 | 2015.3 |
| 37.5° | 1779.8 | 1773.4 | 1758.3 | 1704.8 | 1610.2 | 1510.8 | 1562.4 | 1962.5 | 2201.0 | 2194.2 |
| 40° | 1871.7 | 1861.2 | 1854.0 | 1796.7 | 1711.2 | 1618.9 | 1635.1 | 2071.8 | 2398.8 | 2399.5 |
| 42.5° | 1942.5 | 1938.4 | 1939.2 | 1895.1 | 1808.8 | 1747.0 | 1731.6 | 2195.0 | 2635.8 | 2642.9 |
| 45° | 2003.2 | 1999.8 | 2013.8 | 1982.9 | 1907.1 | 1831.0 | 1844.6 | 2334.4 | 2895.0 | 2909.7 |
| 47.5° | 2049.9 | 2053.7 | 2073.7 | 2053.7 | 2009.2 | 1890.2 | 1944.8 | 2484.7 | 3167.4 | 3169.3 |
| 50° | 2096.6 | 2098.1 | 2131.3 | 2121.5 | 2103.4 | 1965.1 | 2037.1 | 2652.7 | 3454.5 | 3457.8 |
| 52.5° | 2111.3 | 2109.1 | 2161.8 | 2185.9 | 2186.7 | 2057.8 | 2156.5 | 2835.8 | 3735.9 | 3746.8 |
| 55° | 2036.0 | 2042.4 | 2127.5 | 2225.5 | 2264.3 | 2185.9 | 2317.8 | 3067.5 | 4035.8 | 4040.3 |
| 57.5° | 1667.5 | 1702.9 | 1891.3 | 2118.5 | 2314.4 | 2369.4 | 2549.5 | 3338.4 | 4382.0 | 4377.9 |
| 60° | 1012.0 | 1054.2 | 1279.5 | 1776.8 | 2150.9 | 2553.6 | 2890.8 | 3758.1 | 4760.3 | 4748.6 |
| 62.5° | 565.9 | 578.7 | 650.7 | 1063.6 | 1635.9 | 2436.5 | 3224.3 | 4297.3 | 5268.2 | 5228.6 |
| 65° | 417.1 | 421.2 | 438.2 | 521.1 | 804.0 | 1874.0 | 3151.2 | 4941.9 | 5981.7 | 5911.3 |
| 67.5° | 362.4 | 366.6 | 383.2 | 394.5 | 359.0 | 984.5 | 2596.2 | 5299.4 | 6887.8 | 6795.5 |
| 70° | 305.2 | 307.4 | 334.2 | 341.7 | 256.9 | 374.5 | 1667.9 | 5189.0 | 7726.5 | 7660.5 |
| 72.5° | 227.6 | 236.6 | 275.4 | 293.5 | 206.1 | 198.9 | 785.2 | 4536.9 | 7868.5 | 7869.3 |
| 75° | 154.5 | 162.8 | 207.2 | 241.5 | 159.0 | 139.4 | 316.9 | 3387.8 | 6851.7 | 6851.7 |
| 77.5° | 105.5 | 112.3 | 144.3 | 189.5 | 120.6 | 95.7 | 164.3 | 2150.1 | 4915.5 | 5088.4 |
| 80° | 46.7 | 50.9 | 93.1 | 137.5 | 91.6 | 61.8 | 93.1 | 1177.4 | 2972.6 | 2936.0 |
| 82.5° | 23.0 | 26.4 | 59.5 | 85.9 | 59.2 | 38.1 | 49.0 | 559.9 | 963.4 | 915.5 |
| 85° | 4.5 | 6.0 | 32.0 | 36.5 | 27.5 | 17.0 | 18.5 | 172.2 | 116.0 | 132.6 |
| 87.5° | 0.0 | 0.0 | 9.8 | 6.8 | 3.0 | 3.8 | 3.8 | 15.4 | 9.0 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P945759
 CATALOG NUMBER: GALN-SB1C-840-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1003.7 | 0° | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 | 1003.7 |
| 1020.6 | 2.5° | 1007.1 | 993.1 | 962.6 | 932.5 | 901.6 | 873.3 | 853.7 | 834.1 | 822.1 | 816.8 |
| 1043.2 | 5° | 1015.0 | 986.7 | 922.7 | 855.6 | 789.3 | 724.5 | 675.9 | 630.3 | 616.0 | 592.3 |
| 1070.0 | 7.5° | 1027.4 | 981.4 | 880.5 | 767.4 | 659.7 | 564.8 | 496.2 | 441.6 | 419.7 | 398.6 |
| 1093.0 | 10° | 1035.7 | 971.6 | 824.7 | 673.6 | 527.8 | 421.2 | 355.7 | 316.1 | 301.8 | 289.0 |
| 1114.4 | 12.5° | 1039.1 | 953.6 | 760.7 | 568.5 | 410.7 | 321.0 | 281.8 | 263.4 | 258.5 | 253.9 |
| 1134.8 | 15° | 1042.1 | 935.9 | 689.1 | 467.2 | 324.4 | 268.6 | 253.2 | 247.2 | 243.8 | 240.7 |
| 1155.5 | 17.5° | 1044.7 | 913.3 | 607.3 | 379.8 | 273.9 | 247.5 | 240.0 | 233.6 | 231.0 | 227.6 |
| 1185.3 | 20° | 1053.8 | 891.4 | 534.2 | 313.5 | 246.4 | 232.5 | 224.2 | 217.4 | 215.1 | 212.9 |
| 1227.5 | 22.5° | 1070.7 | 873.7 | 463.4 | 268.6 | 229.8 | 217.0 | 206.5 | 198.9 | 197.4 | 195.9 |
| 1278.7 | 25° | 1091.1 | 851.8 | 396.7 | 239.6 | 213.6 | 199.3 | 187.6 | 181.2 | 179.7 | 180.1 |
| 1337.9 | 27.5° | 1117.1 | 827.7 | 339.5 | 221.2 | 199.3 | 182.7 | 169.5 | 164.6 | 165.4 | 166.9 |
| 1406.0 | 30° | 1145.7 | 805.5 | 294.6 | 208.3 | 186.5 | 168.0 | 154.8 | 151.5 | 154.1 | 156.4 |
| 1497.2 | 32.5° | 1188.3 | 785.9 | 263.4 | 198.2 | 175.2 | 156.0 | 145.4 | 141.3 | 144.3 | 147.3 |
| 1613.6 | 35° | 1246.3 | 776.1 | 245.6 | 189.5 | 165.4 | 146.6 | 136.0 | 133.0 | 136.0 | 136.8 |
| 1755.7 | 37.5° | 1317.5 | 775.4 | 238.1 | 182.3 | 156.4 | 138.6 | 127.0 | 125.8 | 128.1 | 128.5 |
| 1926.3 | 40° | 1409.4 | 780.3 | 232.5 | 177.1 | 146.9 | 129.6 | 118.7 | 117.5 | 118.3 | 120.9 |
| 2131.7 | 42.5° | 1525.9 | 800.6 | 224.5 | 170.3 | 136.8 | 120.6 | 111.9 | 109.3 | 108.9 | 111.9 |
| 2361.5 | 45° | 1672.0 | 845.4 | 214.0 | 159.4 | 127.7 | 113.0 | 104.4 | 101.3 | 100.2 | 101.0 |
| 2598.8 | 47.5° | 1831.4 | 900.4 | 203.4 | 149.2 | 121.3 | 107.0 | 98.3 | 94.6 | 92.7 | 92.7 |
| 2820.8 | 50° | 1985.9 | 962.6 | 196.3 | 138.6 | 116.8 | 101.3 | 91.9 | 88.2 | 85.1 | 84.4 |
| 3049.1 | 52.5° | 2138.8 | 1023.6 | 190.6 | 128.1 | 111.5 | 94.2 | 85.9 | 81.8 | 78.4 | 76.9 |
| 3275.1 | 55° | 2278.2 | 1081.7 | 180.8 | 117.9 | 104.7 | 86.7 | 79.9 | 75.7 | 71.6 | 68.9 |
| 3504.2 | 57.5° | 2412.0 | 1129.9 | 162.8 | 107.4 | 94.2 | 79.5 | 73.5 | 68.9 | 64.0 | 60.7 |
| 3735.9 | 60° | 2533.7 | 1154.8 | 140.2 | 96.1 | 83.6 | 72.0 | 66.3 | 62.2 | 55.8 | 50.1 |
| 3963.8 | 62.5° | 2626.4 | 1145.0 | 115.7 | 83.3 | 72.7 | 65.2 | 58.0 | 53.9 | 46.3 | 39.6 |
| 4237.0 | 65° | 2721.3 | 1091.5 | 92.3 | 69.7 | 63.7 | 56.1 | 48.6 | 44.5 | 35.8 | 28.6 |
| 4606.6 | 67.5° | 2844.5 | 977.3 | 72.7 | 58.0 | 55.0 | 44.5 | 38.1 | 35.4 | 29.4 | 22.6 |
| 5003.3 | 70° | 2923.6 | 759.2 | 56.5 | 47.1 | 45.2 | 32.4 | 29.4 | 29.0 | 23.4 | 17.3 |
| 4976.5 | 72.5° | 2706.6 | 497.7 | 43.3 | 35.8 | 32.4 | 21.1 | 22.6 | 22.6 | 17.0 | 11.7 |
| 4362.4 | 75° | 2259.4 | 291.2 | 31.3 | 25.6 | 18.5 | 13.6 | 15.4 | 15.4 | 10.5 | 5.7 |
| 3109.4 | 77.5° | 1613.6 | 155.2 | 20.7 | 15.8 | 9.4 | 6.0 | 8.3 | 7.9 | 3.4 | 0.4 |
| 1218.8 | 80° | 617.1 | 53.5 | 9.8 | 6.4 | 2.6 | 1.1 | 0.8 | 0.4 | 0.4 | 0.0 |
| 190.3 | 82.5° | 94.2 | 13.9 | 1.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40.3 | 85° | 17.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10.5 | 87.5° | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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

| |
|--------|
| 180° |
| <hr/> |
| 1003.7 |
| 817.6 |
| 593.8 |
| 398.2 |
| 288.6 |
| 253.9 |
| 240.7 |
| 227.6 |
| 213.2 |
| 194.8 |
| 179.3 |
| 166.1 |
| 155.6 |
| 146.6 |
| 136.4 |
| 127.7 |
| 120.6 |
| 111.5 |
| 102.1 |
| 92.7 |
| 84.0 |
| 76.1 |
| 67.8 |
| 59.2 |
| 48.6 |
| 36.9 |
| 26.7 |
| 21.1 |
| 15.4 |
| 10.2 |
| 4.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)