

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: P944654

Luminaire Tested: **GALN-SB9C-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34651 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

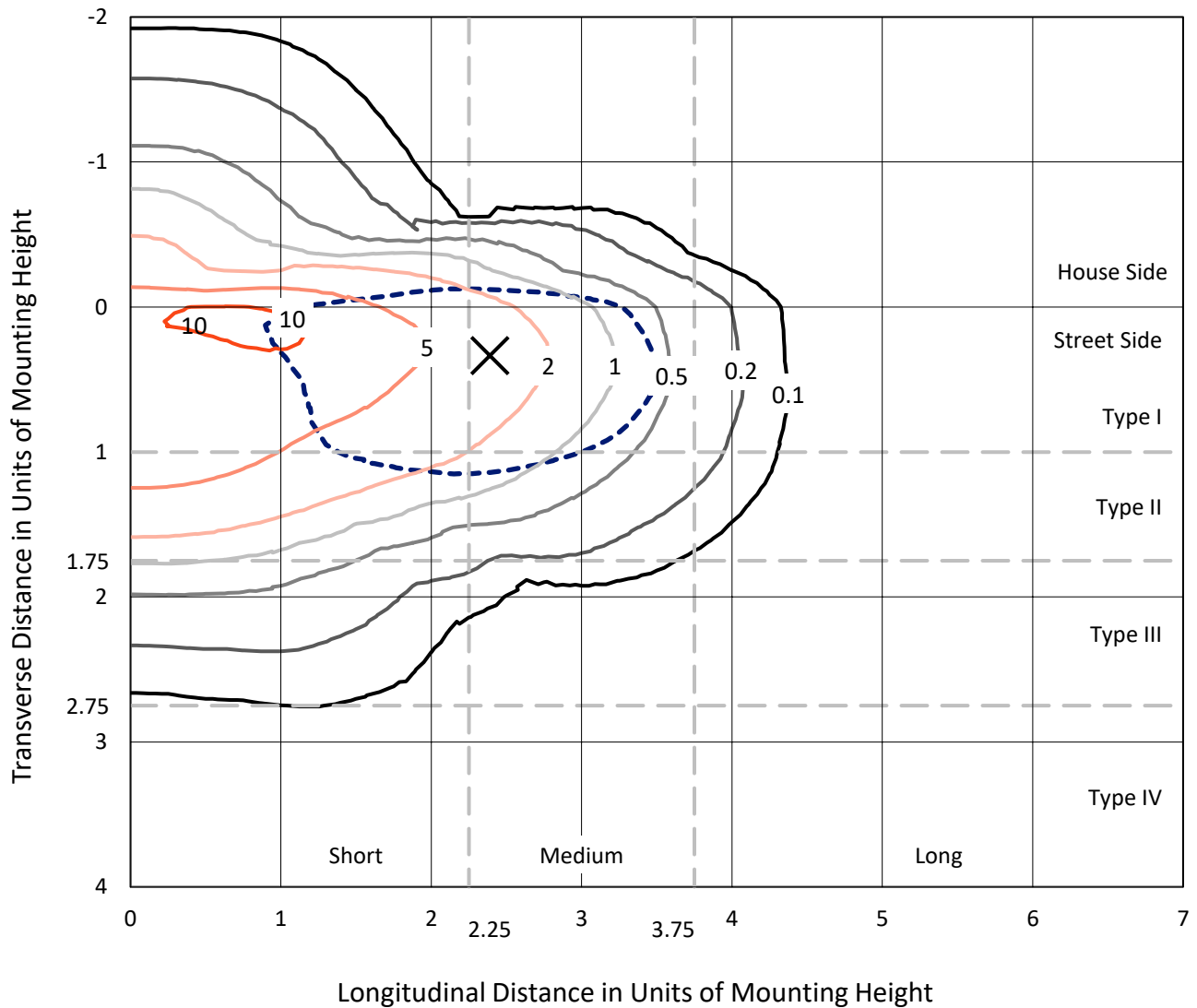
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944654
 CATALOG NUMBER: GALN-SB9C-950-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

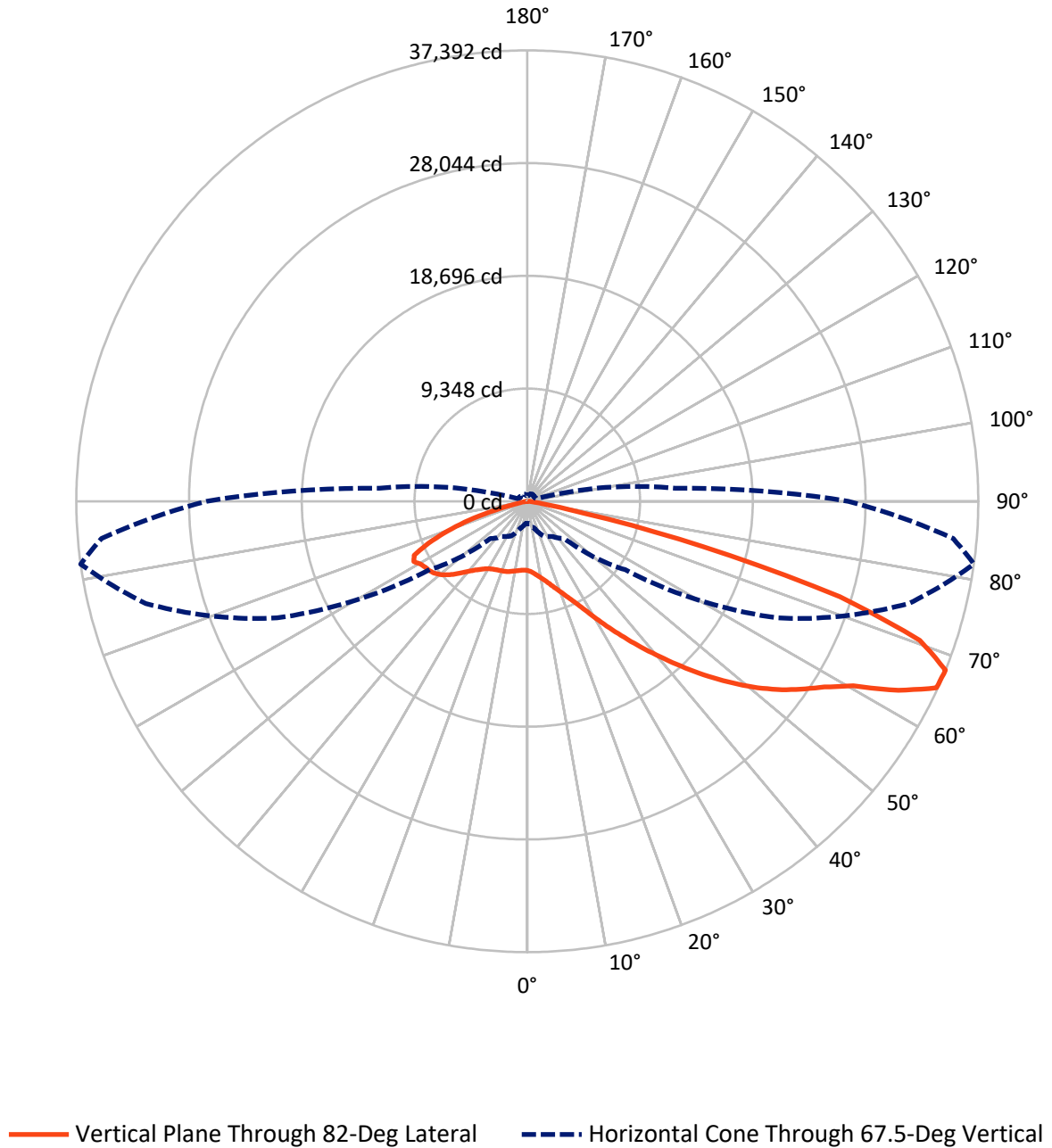
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P944654
CATALOG NUMBER: GALN-SB9C-950-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944654

CATALOG NUMBER: GALN-SB9C-950-U-T2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6276.7 | 0.0 | 6276.7 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 28374.3 | 0.0 | 28374.3 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 34651.0 | 0.0 | 34651.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 511.4 | 1.5 |
| 10°-20° | 1329.0 | 3.8 |
| 20°-30° | 2128.7 | 6.1 |
| 30°-40° | 3764.1 | 10.9 |
| 40°-50° | 6595.1 | 19.0 |
| 50°-60° | 8796.0 | 25.4 |
| 60°-70° | 8188.6 | 23.6 |
| 70°-80° | 3142.8 | 9.1 |
| 80°-90° | 195.2 | 0.6 |
| 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° | 34651.0 | 100.0 |
| 0°-180° | 34651.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P944654

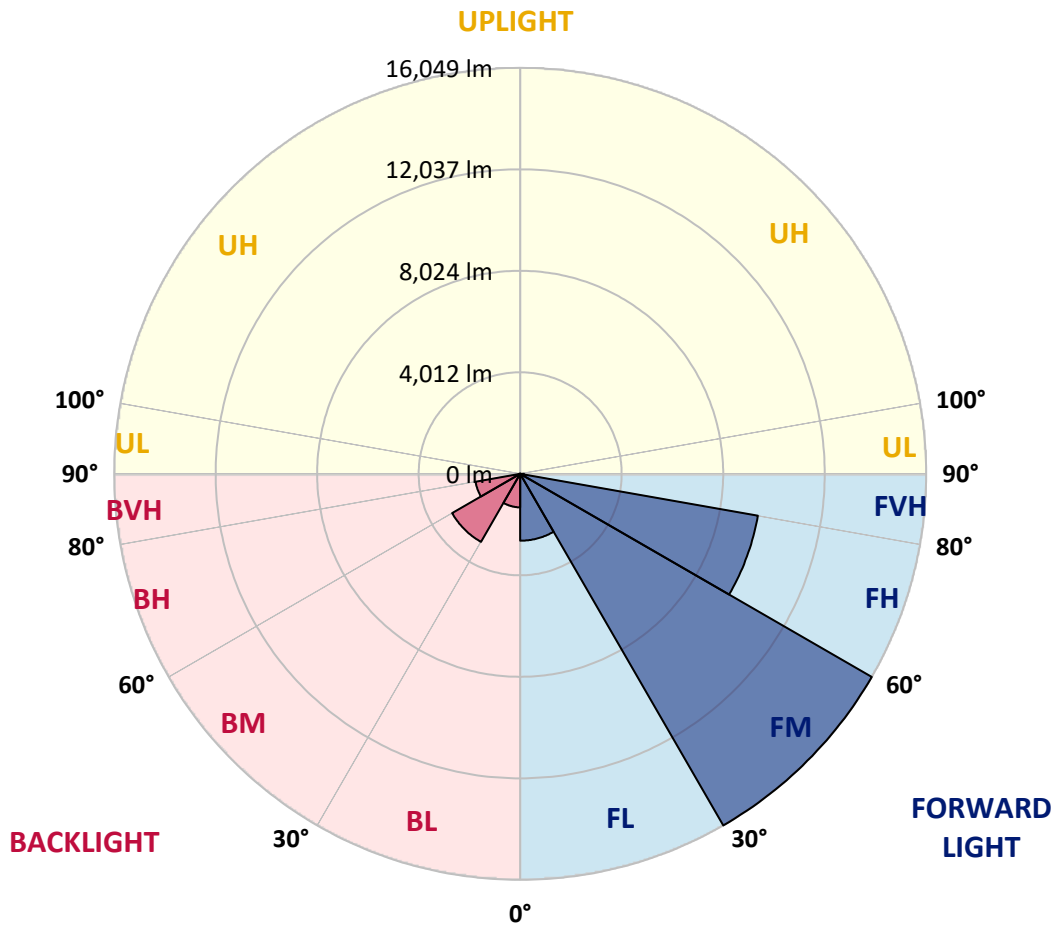
CATALOG NUMBER: GALN-SB9C-950-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2643.5 | 7.6 | | | |
| FM (30°-60°) | 16048.9 | 46.3 | | | |
| FH (60°-80°) | 9539.9 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 141.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1325.6 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 3106.3 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1791.5 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 53.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium



REPORT NUMBER: P944654

CATALOG NUMBER: GALN-SB9C-950-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 |
| 2.5° | 6067.3 | 6102.2 | 6082.3 | 6072.3 | 6054.8 | 6029.9 | 6009.9 | 5947.6 | 5882.7 | 5840.3 |
| 5° | 6189.6 | 6224.5 | 6222.0 | 6232.0 | 6244.4 | 6251.9 | 6246.9 | 6177.1 | 6084.8 | 6012.4 |
| 7.5° | 6084.8 | 6124.7 | 6157.1 | 6207.0 | 6294.3 | 6386.6 | 6431.6 | 6416.6 | 6321.8 | 6222.0 |
| 10° | 5787.9 | 5830.3 | 5907.6 | 6024.9 | 6209.5 | 6409.1 | 6576.3 | 6653.6 | 6593.7 | 6483.9 |
| 12.5° | 5244.0 | 5286.4 | 5438.6 | 5693.1 | 6002.5 | 6349.2 | 6668.6 | 6875.6 | 6890.6 | 6780.8 |
| 15° | 4632.8 | 4675.2 | 4837.4 | 5156.7 | 5628.2 | 6184.6 | 6718.5 | 7110.1 | 7242.4 | 7147.6 |
| 17.5° | 4253.6 | 4291.0 | 4413.3 | 4670.2 | 5161.7 | 5855.3 | 6701.0 | 7359.6 | 7661.5 | 7586.6 |
| 20° | 4138.8 | 4171.3 | 4228.7 | 4408.3 | 4817.4 | 5513.5 | 6586.2 | 7594.1 | 8113.0 | 8070.6 |
| 22.5° | 4261.1 | 4291.0 | 4308.5 | 4388.3 | 4645.3 | 5288.9 | 6441.5 | 7833.6 | 8636.9 | 8641.9 |
| 25° | 4543.0 | 4572.9 | 4553.0 | 4602.9 | 4715.1 | 5219.1 | 6386.6 | 8115.5 | 9295.6 | 9350.5 |
| 27.5° | 5007.0 | 5009.5 | 4962.1 | 4959.6 | 4977.1 | 5323.9 | 6444.0 | 8417.4 | 10126.3 | 10228.6 |
| 30° | 5937.6 | 5900.2 | 5718.0 | 5521.0 | 5431.1 | 5638.2 | 6603.7 | 8774.2 | 11106.8 | 11288.9 |
| 32.5° | 7372.1 | 7317.2 | 6982.9 | 6511.4 | 6037.4 | 6144.7 | 6890.6 | 9180.8 | 12174.5 | 12503.9 |
| 35° | 8928.8 | 8913.9 | 8564.6 | 7863.6 | 7035.3 | 6865.6 | 7357.1 | 9714.7 | 13339.6 | 13863.5 |
| 37.5° | 10375.8 | 10368.3 | 10168.7 | 9343.0 | 8335.1 | 7871.0 | 8105.6 | 10413.2 | 14587.0 | 15345.4 |
| 40° | 11698.0 | 11720.5 | 11520.9 | 10782.5 | 9767.1 | 9160.8 | 9123.4 | 11276.4 | 15974.1 | 16959.5 |
| 42.5° | 12840.7 | 12865.6 | 12663.5 | 12117.2 | 11181.6 | 10587.9 | 10373.3 | 12334.2 | 17328.8 | 18693.4 |
| 45° | 13616.5 | 13771.2 | 13741.3 | 13304.7 | 12633.6 | 12017.4 | 11875.2 | 13661.4 | 18873.0 | 20532.1 |
| 47.5° | 13836.1 | 13978.3 | 14202.8 | 14262.7 | 13853.5 | 13247.3 | 13416.9 | 15260.6 | 20434.8 | 22373.2 |
| 50° | 13294.7 | 13426.9 | 13893.5 | 14514.7 | 14799.1 | 14612.0 | 14916.3 | 16974.5 | 22033.9 | 24209.4 |
| 52.5° | 12226.9 | 12361.7 | 12950.4 | 13933.4 | 15093.4 | 15682.2 | 16420.7 | 18663.5 | 23583.2 | 25948.2 |
| 55° | 10682.7 | 10824.9 | 11580.8 | 12693.5 | 14532.1 | 16123.8 | 17675.5 | 20350.0 | 25002.7 | 27512.5 |
| 57.5° | 8582.1 | 8686.8 | 9472.7 | 11029.4 | 13120.1 | 15684.7 | 18601.1 | 22191.1 | 26339.9 | 29049.3 |
| 60° | 5593.3 | 5685.6 | 6598.7 | 8335.1 | 10780.0 | 14217.8 | 18785.7 | 24244.3 | 28116.2 | 31047.6 |
| 62.5° | 3719.7 | 3782.1 | 4323.5 | 5598.3 | 7591.6 | 11401.2 | 17705.5 | 25883.4 | 30720.8 | 34525.3 |
| 65° | 2552.2 | 2614.5 | 3155.9 | 4044.0 | 4904.7 | 7541.7 | 14599.5 | 25666.3 | 33080.8 | 37287.0 |
| 67.5° | 1821.2 | 1873.6 | 2332.6 | 3170.9 | 3550.1 | 4380.8 | 9896.8 | 22892.1 | 32741.5 | 37391.8 |
| 70° | 1304.8 | 1334.7 | 1713.9 | 2469.8 | 2821.6 | 2632.0 | 5503.5 | 17508.4 | 28667.6 | 34527.8 |
| 72.5° | 913.1 | 923.1 | 1190.0 | 1881.1 | 2272.7 | 1921.0 | 2619.5 | 11673.1 | 21682.2 | 27100.8 |
| 75° | 618.7 | 631.2 | 800.8 | 1379.6 | 1823.7 | 1466.9 | 1387.1 | 6259.4 | 12728.4 | 15001.1 |
| 77.5° | 379.2 | 384.2 | 516.4 | 943.0 | 1364.6 | 1117.7 | 893.1 | 2652.0 | 4924.7 | 4834.9 |
| 80° | 214.6 | 214.6 | 329.3 | 586.3 | 930.6 | 721.0 | 626.2 | 1127.6 | 1559.2 | 1369.6 |
| 82.5° | 119.7 | 122.2 | 239.5 | 364.2 | 616.2 | 426.6 | 344.3 | 521.4 | 673.6 | 596.3 |
| 85° | 49.9 | 54.9 | 147.2 | 172.1 | 294.4 | 212.1 | 139.7 | 219.5 | 249.5 | 222.0 |
| 87.5° | 5.0 | 7.5 | 44.9 | 32.4 | 34.9 | 42.4 | 20.0 | 42.4 | 34.9 | 34.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P944654
 CATALOG NUMBER: GALN-SB9C-950-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5740.5 | 0° | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 | 5740.5 |
| 5825.3 | 2.5° | 5777.9 | 5740.5 | 5645.7 | 5535.9 | 5391.2 | 5321.4 | 5226.6 | 5161.7 | 5106.8 | 5111.8 |
| 5970.0 | 5° | 5890.2 | 5795.4 | 5583.3 | 5318.9 | 4989.6 | 4755.1 | 4505.6 | 4333.4 | 4193.7 | 4163.8 |
| 6169.6 | 7.5° | 6044.9 | 5895.2 | 5523.5 | 5046.9 | 4490.6 | 4069.0 | 3692.3 | 3450.3 | 3278.1 | 3223.3 |
| 6411.6 | 10° | 6244.4 | 6027.4 | 5446.1 | 4705.2 | 3904.3 | 3368.0 | 2963.8 | 2774.2 | 2656.9 | 2617.0 |
| 6696.0 | 12.5° | 6476.5 | 6179.6 | 5343.8 | 4288.5 | 3300.6 | 2784.2 | 2527.2 | 2432.4 | 2395.0 | 2382.5 |
| 7045.3 | 15° | 6768.3 | 6369.2 | 5189.2 | 3794.6 | 2789.2 | 2427.4 | 2317.7 | 2305.2 | 2310.2 | 2305.2 |
| 7464.4 | 17.5° | 7115.1 | 6576.3 | 4937.2 | 3285.6 | 2444.9 | 2245.3 | 2205.4 | 2215.4 | 2227.8 | 2225.3 |
| 7933.4 | 20° | 7494.3 | 6780.8 | 4615.4 | 2834.1 | 2210.4 | 2115.6 | 2093.1 | 2103.1 | 2113.1 | 2108.1 |
| 8474.8 | 22.5° | 7925.9 | 7000.4 | 4258.6 | 2482.3 | 2053.2 | 1995.8 | 1970.9 | 1973.4 | 1973.4 | 1963.4 |
| 9160.8 | 25° | 8442.3 | 7242.4 | 3884.4 | 2232.8 | 1933.5 | 1888.6 | 1858.6 | 1848.6 | 1833.7 | 1803.7 |
| 9994.1 | 27.5° | 9058.6 | 7499.3 | 3525.1 | 2058.2 | 1838.7 | 1796.2 | 1761.3 | 1736.4 | 1698.9 | 1649.1 |
| 10994.5 | 30° | 9752.1 | 7811.2 | 3220.8 | 1948.4 | 1763.8 | 1721.4 | 1681.5 | 1644.1 | 1589.2 | 1526.8 |
| 12144.6 | 32.5° | 10567.9 | 8145.5 | 2998.7 | 1876.1 | 1696.5 | 1651.5 | 1604.1 | 1559.2 | 1499.4 | 1437.0 |
| 13436.9 | 35° | 11540.9 | 8549.6 | 2869.0 | 1826.2 | 1644.1 | 1584.2 | 1531.8 | 1481.9 | 1437.0 | 1382.1 |
| 14841.5 | 37.5° | 12596.2 | 8978.7 | 2829.1 | 1801.2 | 1609.1 | 1516.8 | 1457.0 | 1422.0 | 1417.0 | 1384.6 |
| 16360.8 | 40° | 13751.2 | 9487.7 | 2859.0 | 1786.3 | 1571.7 | 1452.0 | 1387.1 | 1379.6 | 1392.1 | 1334.7 |
| 17984.9 | 42.5° | 14973.7 | 10091.4 | 2908.9 | 1768.8 | 1519.3 | 1387.1 | 1324.7 | 1324.7 | 1314.8 | 1234.9 |
| 19701.3 | 45° | 16295.9 | 10787.4 | 2958.8 | 1726.4 | 1457.0 | 1322.2 | 1274.8 | 1257.4 | 1215.0 | 1137.6 |
| 21427.7 | 47.5° | 17628.1 | 11496.0 | 2996.2 | 1649.1 | 1382.1 | 1267.4 | 1224.9 | 1185.0 | 1122.7 | 1052.8 |
| 23121.7 | 50° | 18893.0 | 12132.1 | 2956.3 | 1534.3 | 1297.3 | 1215.0 | 1170.1 | 1115.2 | 1047.8 | 1000.4 |
| 24725.8 | 52.5° | 20023.1 | 12683.5 | 2786.7 | 1399.6 | 1207.5 | 1160.1 | 1120.2 | 1062.8 | 1007.9 | 958.0 |
| 26172.8 | 55° | 21006.1 | 13130.0 | 2487.3 | 1272.3 | 1127.6 | 1112.7 | 1072.8 | 1000.4 | 925.6 | 883.2 |
| 27607.3 | 57.5° | 21949.1 | 13469.3 | 2113.1 | 1167.6 | 1055.3 | 1060.3 | 1000.4 | 935.5 | 865.7 | 820.8 |
| 29540.7 | 60° | 23204.0 | 13923.4 | 1733.9 | 1070.3 | 978.0 | 992.9 | 928.1 | 880.7 | 793.3 | 736.0 |
| 32856.3 | 62.5° | 25209.8 | 14629.4 | 1377.1 | 950.5 | 888.1 | 893.1 | 865.7 | 808.3 | 703.5 | 636.2 |
| 35313.7 | 65° | 26801.5 | 14370.0 | 1085.2 | 820.8 | 785.9 | 793.3 | 793.3 | 731.0 | 618.7 | 541.4 |
| 35445.9 | 67.5° | 26621.8 | 12304.3 | 865.7 | 693.5 | 688.6 | 693.5 | 711.0 | 658.6 | 548.9 | 486.5 |
| 32746.5 | 70° | 24523.7 | 9787.0 | 693.5 | 576.3 | 598.7 | 586.3 | 636.2 | 601.2 | 494.0 | 431.6 |
| 25386.9 | 72.5° | 20010.7 | 7050.3 | 528.9 | 476.5 | 459.0 | 479.0 | 573.8 | 541.4 | 411.6 | 341.8 |
| 13446.9 | 75° | 11693.1 | 3762.1 | 394.2 | 376.7 | 331.8 | 399.2 | 508.9 | 461.5 | 314.3 | 252.0 |
| 4121.4 | 77.5° | 3807.0 | 1312.3 | 289.4 | 276.9 | 247.0 | 321.8 | 434.1 | 389.2 | 257.0 | 199.6 |
| 1207.5 | 80° | 1020.4 | 396.7 | 197.1 | 182.1 | 159.7 | 239.5 | 344.3 | 309.4 | 184.6 | 129.7 |
| 518.9 | 82.5° | 409.1 | 167.2 | 114.8 | 102.3 | 87.3 | 164.7 | 271.9 | 249.5 | 137.2 | 82.3 |
| 162.2 | 85° | 132.2 | 54.9 | 42.4 | 32.4 | 39.9 | 102.3 | 162.2 | 169.6 | 97.3 | 42.4 |
| 24.9 | 87.5° | 17.5 | 7.5 | 7.5 | 10.0 | 7.5 | 17.5 | 49.9 | 47.4 | 27.4 | 5.0 |
| 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> |
|-------------|
| 5740.5 |
| 5061.9 |
| 4096.4 |
| 3168.4 |
| 2587.1 |
| 2375.0 |
| 2302.7 |
| 2220.4 |
| 2105.6 |
| 1958.4 |
| 1798.7 |
| 1644.1 |
| 1521.8 |
| 1439.5 |
| 1377.1 |
| 1382.1 |
| 1337.2 |
| 1234.9 |
| 1135.1 |
| 1050.3 |
| 992.9 |
| 953.0 |
| 878.2 |
| 815.8 |
| 728.5 |
| 631.2 |
| 533.9 |
| 476.5 |
| 424.1 |
| 334.3 |
| 244.5 |
| 192.1 |
| 127.2 |
| 82.3 |
| 32.4 |
| 0.0 |
| 0.0 |

F REPORT)