

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: P949925

Luminaire Tested: **GALN-SB4C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26886 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

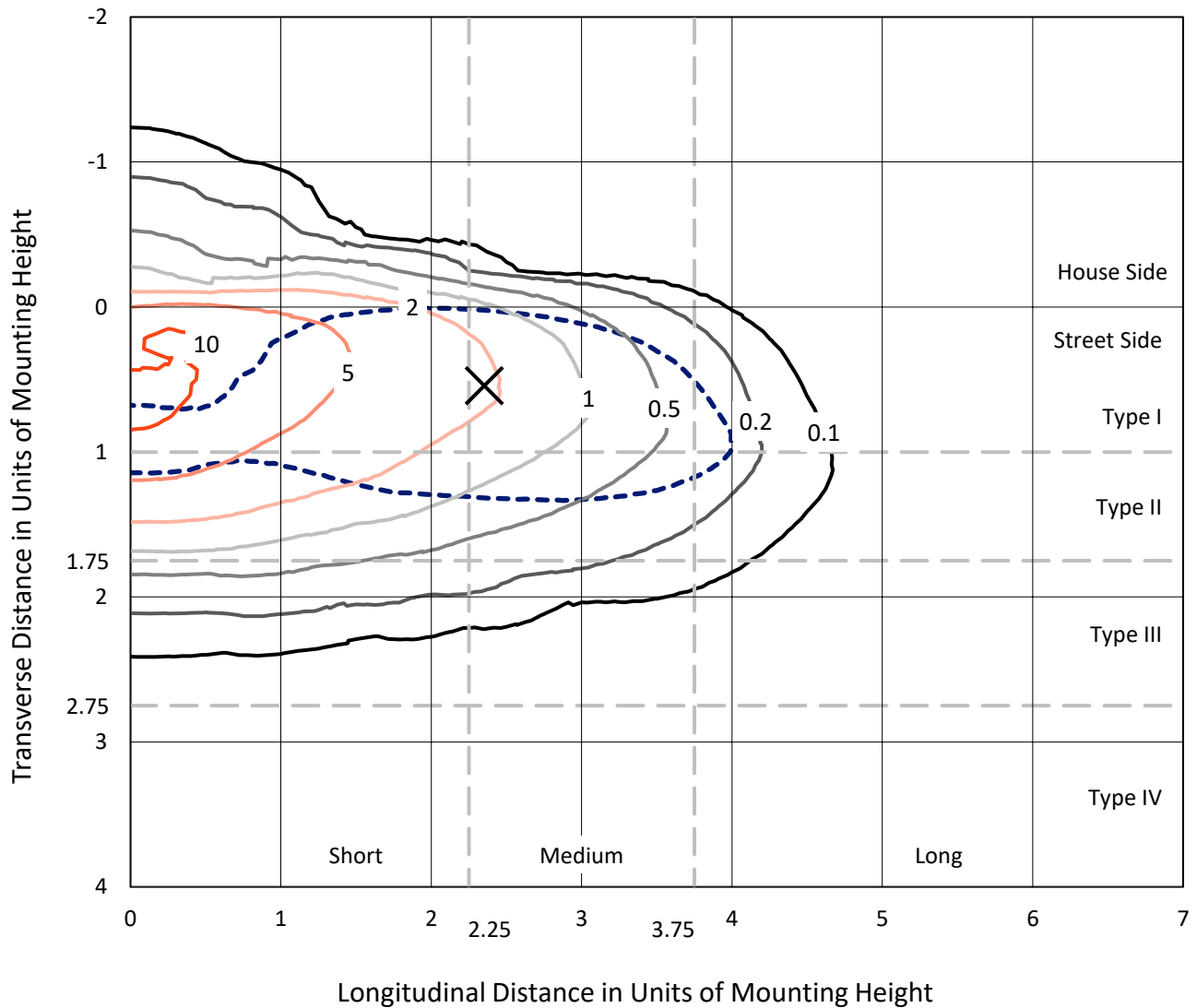
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949925
 CATALOG NUMBER: GALN-SB4C-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

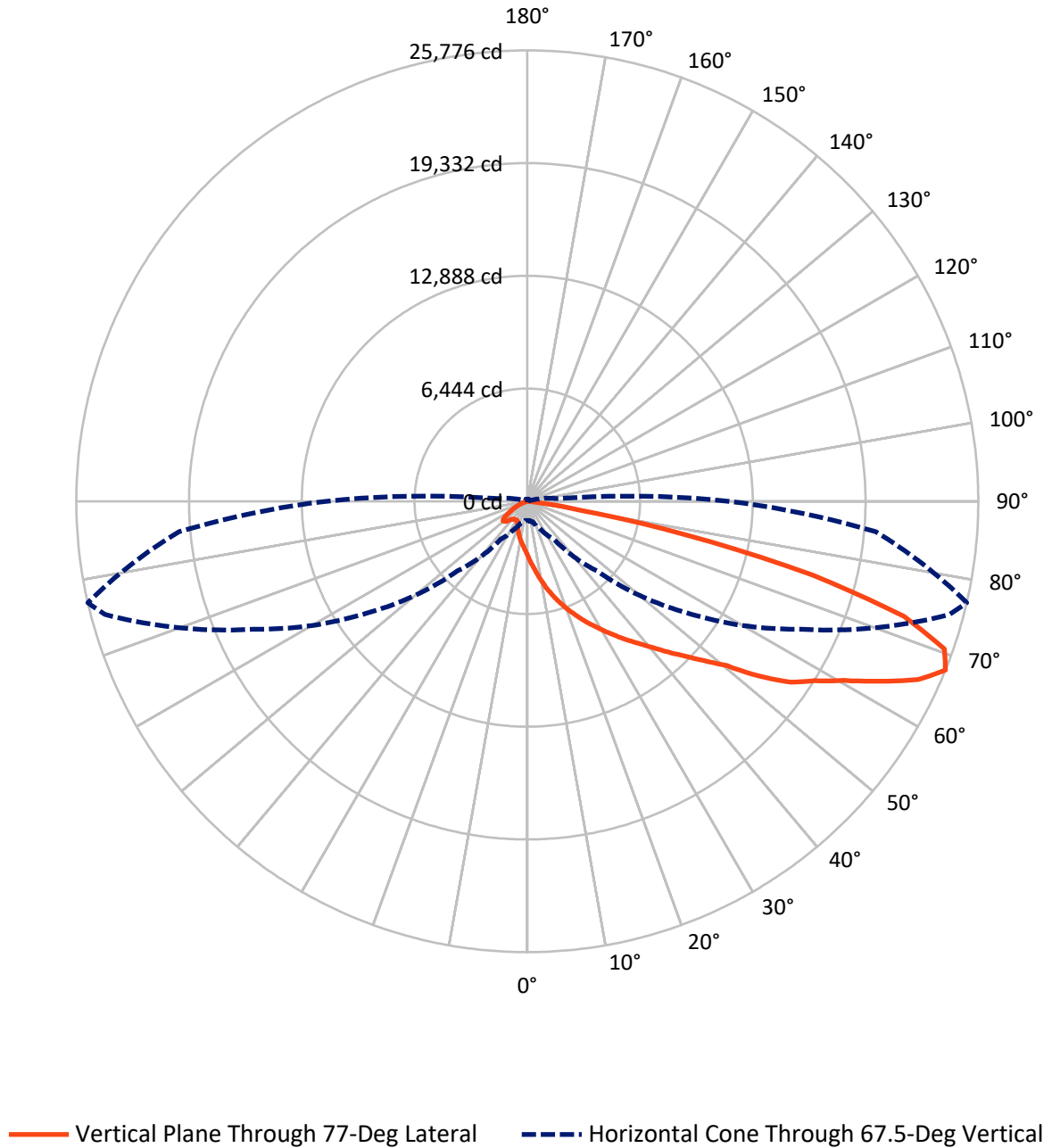
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P949925
CATALOG NUMBER: GALN-SB4C-740-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949925
 CATALOG NUMBER: GALN-SB4C-740-U-T2R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1978.0 | 0.0 | 1978.0 |
| | % Fixture | 7.4 | 0.0 | 7.4 |
| Street Side | Lumens | 24908.0 | 0.0 | 24908.0 |
| | % Fixture | 92.6 | 0.0 | 92.6 |
| Total | Lumens | 26886.0 | 0.0 | 26886.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 316.4 | 1.2 |
| 10°-20° | 1108.1 | 4.1 |
| 20°-30° | 2138.4 | 8.0 |
| 30°-40° | 3712.4 | 13.8 |
| 40°-50° | 5390.2 | 20.0 |
| 50°-60° | 6190.0 | 23.0 |
| 60°-70° | 5374.0 | 20.0 |
| 70°-80° | 2531.2 | 9.4 |
| 80°-90° | 125.2 | 0.5 |
| 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° | 26886.0 | 100.0 |
| 0°-180° | 26886.0 | 100.0 |

Coefficient of Utilization



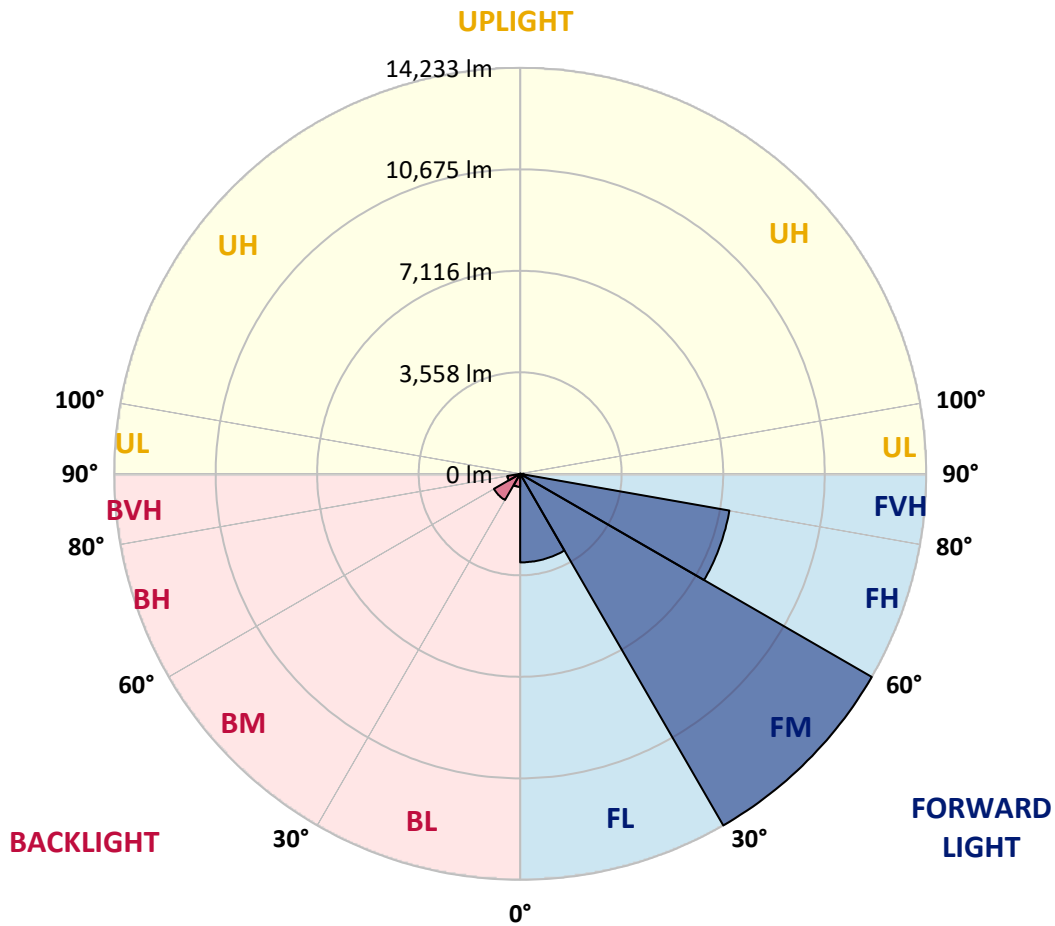
REPORT NUMBER: P949925
 CATALOG NUMBER: GALN-SB4C-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3105.0 | 11.5 | | | |
| FM (30°-60°) | 14232.7 | 52.9 | | | |
| FH (60°-80°) | 7447.3 | 27.7 | | | G3/7500 |
| FVH (80°-90°) | 122.9 | 0.5 | | | G2/225 |
| BL (0°-30°) | 457.9 | 1.7 | B1/500 | | |
| BM (30°-60°) | 1059.8 | 3.9 | B2/2500 | | |
| BH (60°-80°) | 457.9 | 1.7 | 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: B2-U0-G3

Type II Medium



REPORT NUMBER: P949925
 CATALOG NUMBER: GALN-SB4C-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 |
| 2.5° | 4292.4 | 4319.1 | 4280.7 | 4207.3 | 4097.1 | 4025.3 | 3850.0 | 3684.7 | 3501.0 | 3442.6 |
| 5° | 5232.4 | 5255.7 | 5212.3 | 5132.2 | 4985.3 | 4845.0 | 4614.6 | 4269.0 | 3910.1 | 3794.9 |
| 7.5° | 5928.6 | 5941.9 | 5925.2 | 5851.8 | 5711.5 | 5552.9 | 5295.8 | 4886.8 | 4354.2 | 4227.3 |
| 10° | 6429.4 | 6472.8 | 6467.8 | 6439.4 | 6346.0 | 6217.4 | 5943.6 | 5477.8 | 4851.7 | 4688.1 |
| 12.5° | 6761.7 | 6810.1 | 6838.5 | 6901.9 | 6896.9 | 6815.1 | 6574.7 | 6082.2 | 5347.6 | 5155.6 |
| 15° | 6858.5 | 6910.3 | 7018.8 | 7165.7 | 7295.9 | 7337.7 | 7169.0 | 6674.9 | 5893.5 | 5648.1 |
| 17.5° | 6803.4 | 6883.5 | 7013.8 | 7245.8 | 7531.3 | 7720.0 | 7701.6 | 7247.5 | 6389.4 | 6108.9 |
| 20° | 6925.3 | 7002.1 | 7103.9 | 7299.3 | 7631.5 | 7973.8 | 8110.7 | 7795.1 | 6881.9 | 6588.0 |
| 22.5° | 7599.8 | 7586.4 | 7596.4 | 7628.2 | 7826.8 | 8165.8 | 8447.9 | 8292.6 | 7369.4 | 7068.9 |
| 25° | 8668.3 | 8608.2 | 8506.3 | 8334.4 | 8284.3 | 8447.9 | 8741.8 | 8733.4 | 7883.6 | 7561.4 |
| 27.5° | 9893.7 | 9883.7 | 9645.0 | 9230.9 | 8997.2 | 8933.8 | 9074.0 | 9162.5 | 8392.8 | 8048.9 |
| 30° | 11067.4 | 11094.1 | 10771.9 | 10311.1 | 9882.1 | 9633.3 | 9506.4 | 9569.9 | 8910.4 | 8574.8 |
| 32.5° | 12089.2 | 12117.6 | 11767.0 | 11227.7 | 10696.8 | 10396.3 | 10129.1 | 9972.2 | 9474.7 | 9109.1 |
| 35° | 12952.4 | 12980.7 | 12578.4 | 11982.3 | 11416.4 | 11144.2 | 10842.0 | 10413.0 | 10042.3 | 9701.7 |
| 37.5° | 13723.7 | 13715.3 | 13176.1 | 12575.0 | 12019.1 | 11803.7 | 11645.1 | 10955.6 | 10626.7 | 10297.8 |
| 40° | 14179.5 | 14214.5 | 13753.7 | 13090.9 | 12551.7 | 12394.7 | 12384.7 | 11628.4 | 11301.2 | 10982.3 |
| 42.5° | 14313.0 | 14374.8 | 14040.9 | 13496.6 | 13007.5 | 12837.2 | 13099.3 | 12356.3 | 12085.9 | 11775.3 |
| 45° | 14072.6 | 14132.7 | 13980.8 | 13603.5 | 13318.0 | 13207.8 | 13713.7 | 13111.0 | 12924.0 | 12616.8 |
| 47.5° | 13371.4 | 13446.5 | 13483.3 | 13403.1 | 13399.8 | 13511.7 | 14264.6 | 13905.7 | 13919.0 | 13605.1 |
| 50° | 12014.1 | 12141.0 | 12478.2 | 12762.0 | 13201.1 | 13752.1 | 14800.5 | 14767.2 | 15041.0 | 14770.5 |
| 52.5° | 9546.5 | 9726.8 | 10888.8 | 11665.1 | 12651.8 | 13707.0 | 15389.9 | 16149.5 | 17009.4 | 16613.7 |
| 55° | 7671.6 | 7671.6 | 8616.5 | 10069.0 | 11580.0 | 13409.8 | 15647.0 | 17047.8 | 18350.0 | 18256.5 |
| 57.5° | 6254.1 | 6329.3 | 6932.0 | 8215.8 | 10029.0 | 12701.9 | 15805.6 | 17612.1 | 19430.2 | 19361.8 |
| 60° | 3860.0 | 4021.9 | 5160.6 | 6427.8 | 8264.3 | 11441.4 | 15705.4 | 18183.0 | 20740.8 | 20795.9 |
| 62.5° | 2173.8 | 2233.9 | 2741.4 | 4624.6 | 6426.1 | 9746.8 | 14939.1 | 18501.9 | 22417.0 | 22650.8 |
| 65° | 1500.9 | 1531.0 | 1726.3 | 2878.3 | 4454.4 | 7760.1 | 13441.5 | 18303.3 | 24096.6 | 24569.1 |
| 67.5° | 1090.2 | 1105.2 | 1227.1 | 1758.0 | 2642.9 | 5626.4 | 11094.1 | 17301.5 | 24986.5 | 25776.2 |
| 70° | 838.1 | 848.1 | 936.6 | 1155.3 | 1561.0 | 3472.7 | 8057.2 | 15309.8 | 24342.0 | 25285.3 |
| 72.5° | 681.2 | 691.2 | 759.6 | 854.8 | 1035.1 | 2053.5 | 4883.4 | 12433.1 | 21497.1 | 22515.5 |
| 75° | 574.3 | 587.7 | 649.5 | 711.2 | 811.4 | 1318.9 | 2290.6 | 8658.3 | 16166.2 | 16834.1 |
| 77.5° | 318.9 | 293.8 | 527.6 | 589.4 | 684.5 | 834.8 | 1071.8 | 5095.5 | 9054.0 | 9239.3 |
| 80° | 198.7 | 205.4 | 419.1 | 474.2 | 525.9 | 420.7 | 490.8 | 1961.7 | 3138.8 | 2981.8 |
| 82.5° | 11.7 | 26.7 | 322.2 | 342.3 | 360.6 | 180.3 | 185.3 | 666.1 | 756.3 | 694.5 |
| 85° | 0.0 | 0.0 | 146.9 | 118.5 | 125.2 | 51.8 | 53.4 | 155.3 | 101.8 | 110.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 5.0 | 10.0 | 13.4 | 5.0 | 6.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P949925
 CATALOG NUMBER: GALN-SB4C-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3100.4 | 0° | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 | 3100.4 |
| 3259.0 | 2.5° | 3142.1 | 3025.2 | 2788.1 | 2556.1 | 2367.4 | 2192.1 | 2066.9 | 1948.4 | 1888.3 | 1884.9 |
| 3469.3 | 5° | 3237.3 | 2991.8 | 2517.7 | 2098.6 | 1761.4 | 1490.9 | 1315.6 | 1190.4 | 1126.9 | 1105.2 |
| 3728.1 | 7.5° | 3370.8 | 3001.8 | 2280.6 | 1697.9 | 1300.6 | 1068.5 | 968.3 | 928.3 | 914.9 | 899.9 |
| 4020.3 | 10° | 3539.4 | 3025.2 | 2068.6 | 1367.4 | 1025.1 | 908.2 | 868.2 | 851.5 | 841.5 | 831.4 |
| 4349.2 | 12.5° | 3728.1 | 3046.9 | 1858.2 | 1135.3 | 901.6 | 841.5 | 813.1 | 793.0 | 779.7 | 768.0 |
| 4686.4 | 15° | 3911.8 | 3060.3 | 1639.5 | 973.3 | 838.1 | 789.7 | 759.6 | 737.9 | 719.6 | 706.2 |
| 5017.0 | 17.5° | 4093.7 | 3078.6 | 1434.1 | 876.5 | 786.4 | 737.9 | 707.9 | 681.2 | 666.1 | 651.1 |
| 5364.3 | 20° | 4295.7 | 3075.3 | 1240.5 | 808.1 | 734.6 | 686.2 | 654.5 | 629.4 | 614.4 | 597.7 |
| 5731.6 | 22.5° | 4482.7 | 3058.6 | 1070.2 | 749.6 | 681.2 | 634.4 | 599.4 | 574.3 | 559.3 | 545.9 |
| 6107.2 | 25° | 4698.1 | 3045.3 | 928.3 | 696.2 | 631.1 | 584.3 | 545.9 | 522.6 | 505.9 | 494.2 |
| 6484.5 | 27.5° | 4905.1 | 3025.2 | 824.8 | 647.8 | 582.7 | 537.6 | 500.9 | 474.2 | 459.1 | 450.8 |
| 6873.5 | 30° | 5108.8 | 3020.2 | 786.4 | 601.0 | 539.3 | 494.2 | 457.5 | 432.4 | 420.7 | 417.4 |
| 7300.9 | 32.5° | 5354.2 | 3033.6 | 803.1 | 584.3 | 499.2 | 454.1 | 419.1 | 400.7 | 389.0 | 389.0 |
| 7776.8 | 35° | 5616.4 | 3030.2 | 828.1 | 599.4 | 472.5 | 414.0 | 387.3 | 375.6 | 364.0 | 364.0 |
| 8304.3 | 37.5° | 5945.3 | 3035.2 | 848.1 | 624.4 | 462.5 | 380.7 | 365.6 | 350.6 | 343.9 | 343.9 |
| 8882.0 | 40° | 6436.1 | 3200.5 | 838.1 | 646.1 | 459.1 | 357.3 | 327.2 | 322.2 | 317.2 | 317.2 |
| 9534.8 | 42.5° | 7037.1 | 3559.5 | 851.5 | 647.8 | 457.5 | 340.6 | 300.5 | 310.5 | 298.8 | 297.2 |
| 10271.1 | 45° | 7694.9 | 3951.8 | 936.6 | 612.7 | 455.8 | 332.2 | 287.2 | 298.8 | 280.5 | 280.5 |
| 11124.2 | 47.5° | 8347.7 | 4340.8 | 1023.4 | 562.6 | 450.8 | 330.6 | 275.5 | 268.8 | 263.8 | 265.5 |
| 12236.1 | 50° | 9247.6 | 4658.0 | 1056.8 | 494.2 | 439.1 | 327.2 | 253.8 | 255.4 | 252.1 | 255.4 |
| 13803.8 | 52.5° | 10227.7 | 4724.8 | 1016.8 | 417.4 | 405.7 | 317.2 | 238.7 | 245.4 | 243.8 | 247.1 |
| 14907.4 | 55° | 10838.7 | 4653.0 | 839.8 | 347.3 | 353.9 | 277.1 | 223.7 | 237.1 | 237.1 | 237.1 |
| 15985.9 | 57.5° | 11469.8 | 4347.5 | 596.0 | 282.2 | 293.8 | 227.1 | 210.4 | 228.7 | 227.1 | 225.4 |
| 17284.8 | 60° | 11923.9 | 3853.3 | 392.3 | 232.1 | 233.7 | 187.0 | 195.3 | 215.4 | 213.7 | 205.4 |
| 18623.8 | 62.5° | 12262.8 | 3307.4 | 252.1 | 197.0 | 178.6 | 168.6 | 178.6 | 195.3 | 188.7 | 170.3 |
| 19759.1 | 65° | 12224.4 | 2551.1 | 193.7 | 168.6 | 146.9 | 146.9 | 155.3 | 170.3 | 150.3 | 120.2 |
| 19976.1 | 67.5° | 11511.5 | 1726.3 | 160.3 | 141.9 | 123.5 | 121.9 | 128.6 | 141.9 | 128.6 | 101.8 |
| 18864.2 | 70° | 10237.7 | 1128.6 | 128.6 | 110.2 | 98.5 | 90.2 | 103.5 | 121.9 | 108.5 | 81.8 |
| 16059.4 | 72.5° | 8309.3 | 687.9 | 96.8 | 80.1 | 71.8 | 58.4 | 81.8 | 100.2 | 86.8 | 60.1 |
| 11167.6 | 75° | 5375.9 | 350.6 | 66.8 | 51.8 | 38.4 | 35.1 | 60.1 | 75.1 | 60.1 | 36.7 |
| 4955.2 | 77.5° | 2056.9 | 146.9 | 36.7 | 23.4 | 20.0 | 16.7 | 33.4 | 45.1 | 25.0 | 8.3 |
| 960.0 | 80° | 395.7 | 61.8 | 18.4 | 11.7 | 10.0 | 6.7 | 5.0 | 3.3 | 0.0 | 0.0 |
| 170.3 | 82.5° | 68.5 | 20.0 | 6.7 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.4 | 85° | 23.4 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.7 | 87.5° | 8.3 | 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° |
| 3100.4 |
| 1881.6 |
| 1101.9 |
| 896.5 |
| 828.1 |
| 764.7 |
| 704.5 |
| 649.5 |
| 596.0 |
| 544.3 |
| 492.5 |
| 450.8 |
| 415.7 |
| 389.0 |
| 364.0 |
| 343.9 |
| 317.2 |
| 295.5 |
| 280.5 |
| 265.5 |
| 255.4 |
| 247.1 |
| 237.1 |
| 225.4 |
| 205.4 |
| 167.0 |
| 116.9 |
| 98.5 |
| 78.5 |
| 56.8 |
| 31.7 |
| 6.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)