

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: P955118

Luminaire Tested: **GALN-SB8A-930-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-930-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19437 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

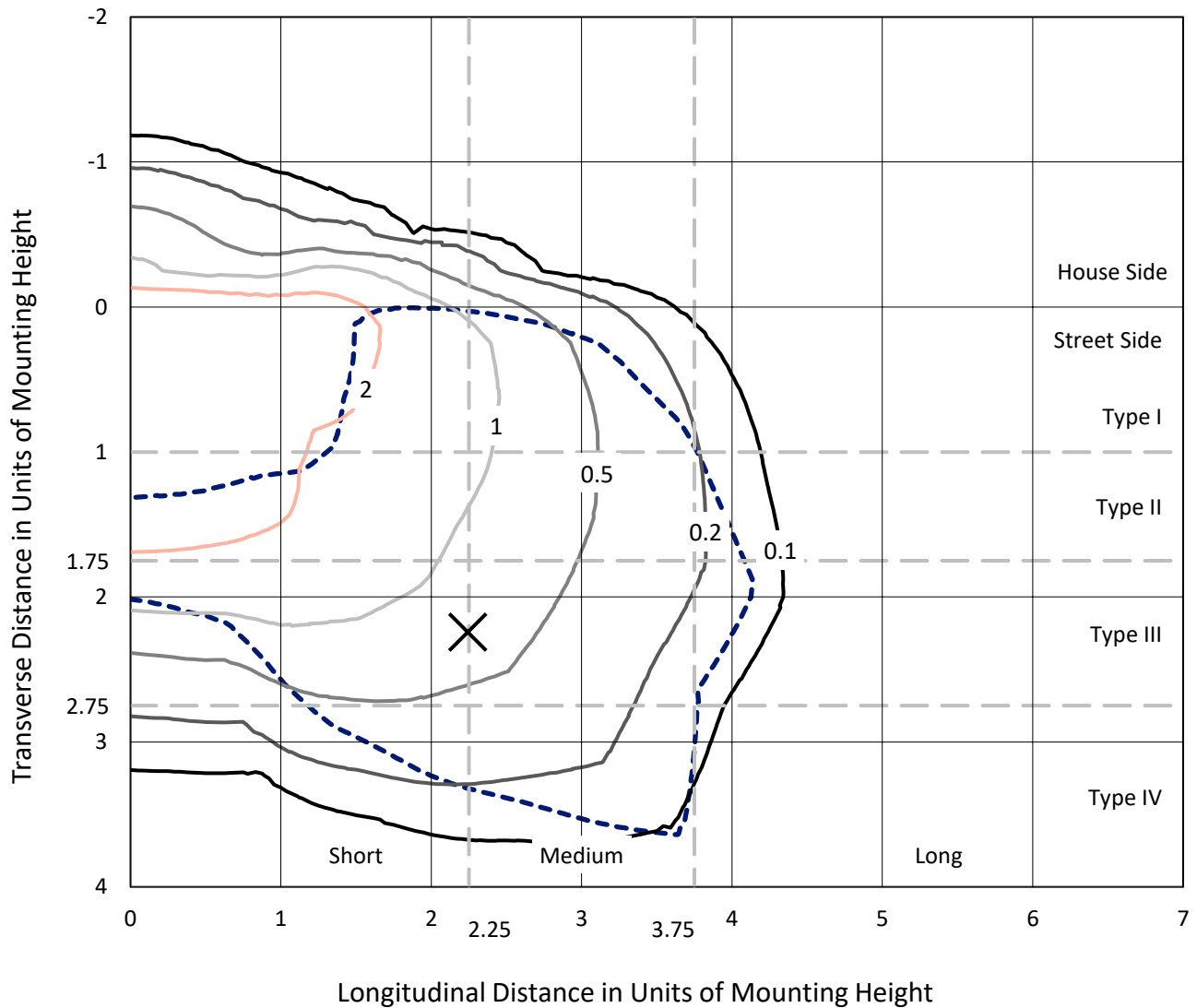
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955118
 CATALOG NUMBER: GALN-SB8A-930-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

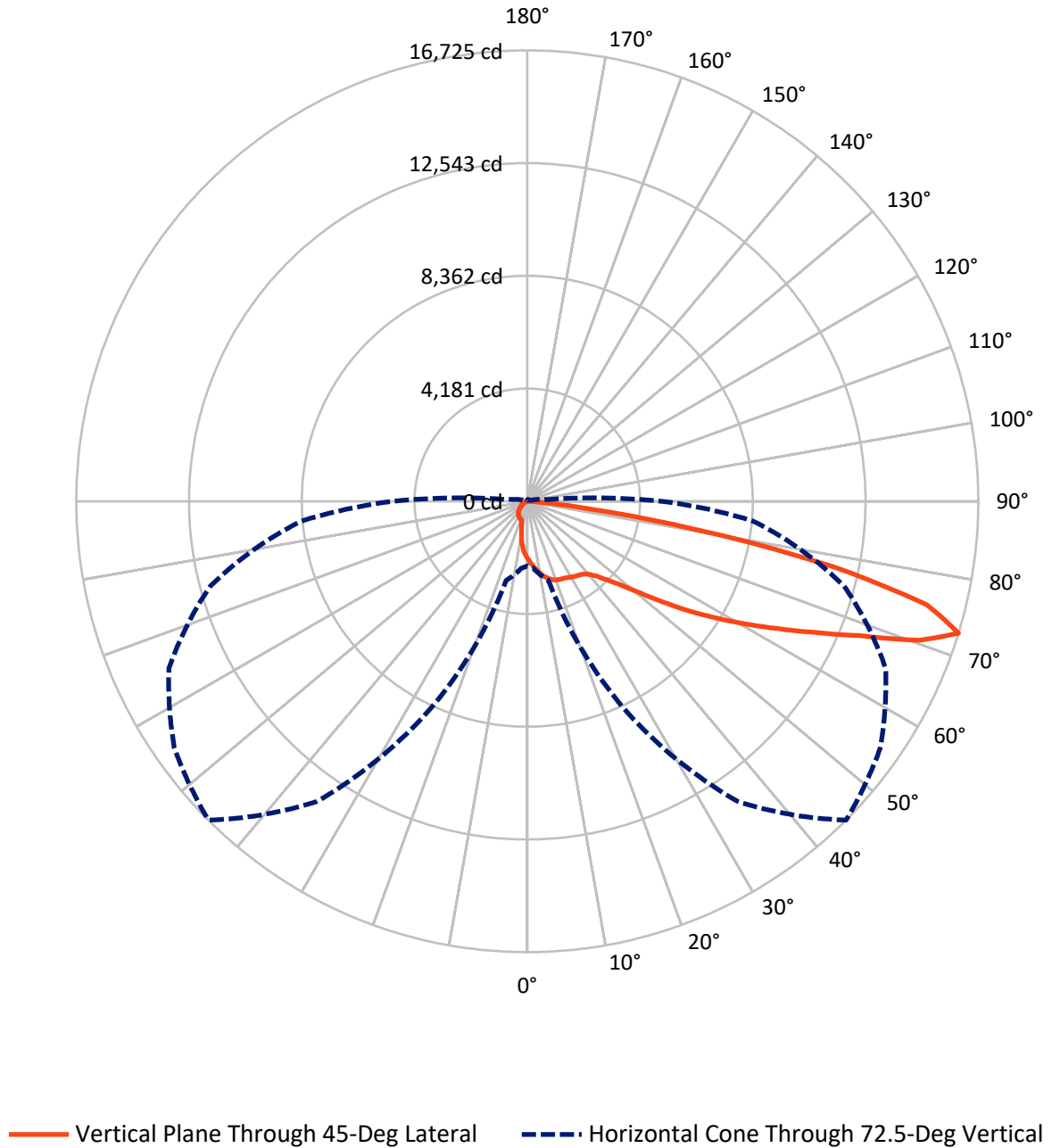
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P955118
CATALOG NUMBER: GALN-SB8A-930-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P955118
 CATALOG NUMBER: GALN-SB8A-930-U-T4W-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2042.3 | 0.0 | 2042.3 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 17394.7 | 0.0 | 17394.7 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 19437.0 | 0.0 | 19437.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 200.6 | 1.0 |
| 10°-20° | 586.4 | 3.0 |
| 20°-30° | 962.9 | 5.0 |
| 30°-40° | 1365.6 | 7.0 |
| 40°-50° | 2257.2 | 11.6 |
| 50°-60° | 4054.8 | 20.9 |
| 60°-70° | 5630.3 | 29.0 |
| 70°-80° | 4084.0 | 21.0 |
| 80°-90° | 295.3 | 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° | 19437.0 | 100.0 |
| 0°-180° | 19437.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P955118

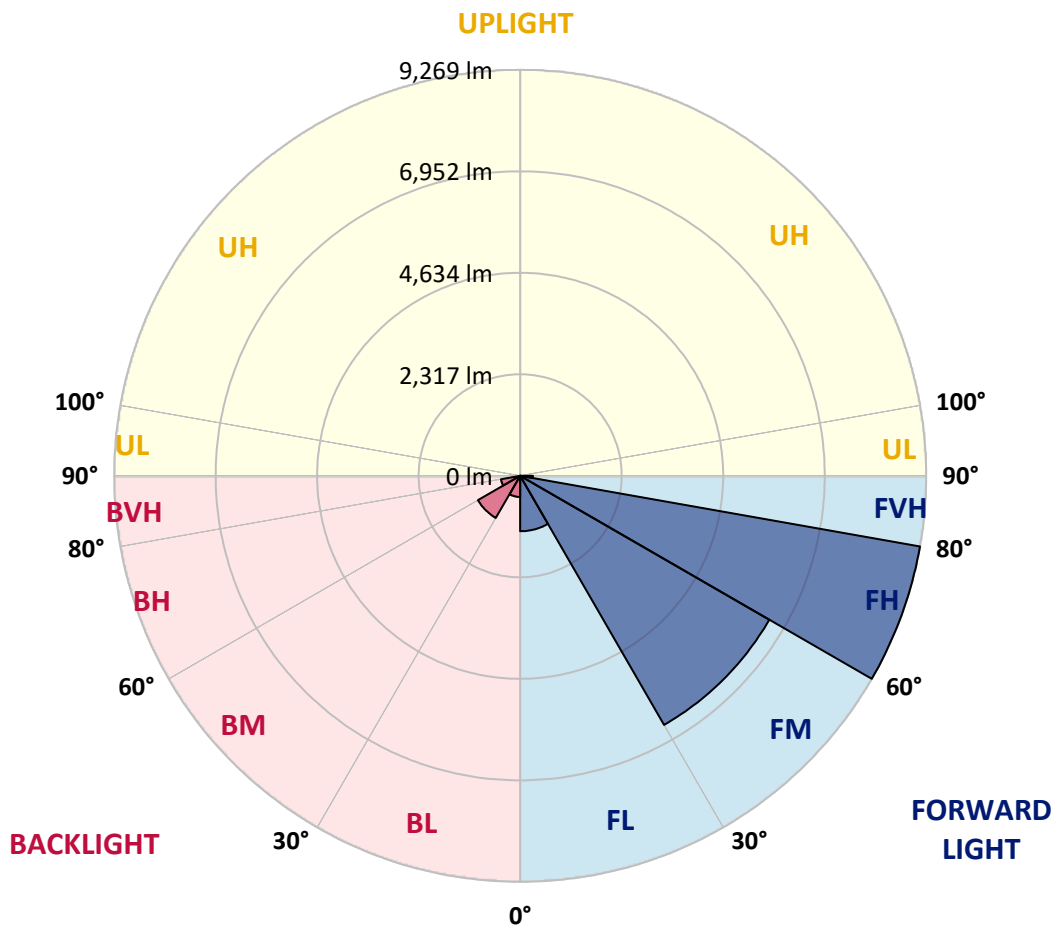
CATALOG NUMBER: GALN-SB8A-930-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1266.1 | 6.5 | | | |
| FM (30°-60°) | 6566.9 | 33.8 | | | |
| FH (60°-80°) | 9269.0 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 292.8 | 1.5 | | | G3/500 |
| BL (0°-30°) | 483.7 | 2.5 | B1/500 | | |
| BM (30°-60°) | 1110.7 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 445.4 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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-G4

Type IV Short



REPORT NUMBER: P955118
 CATALOG NUMBER: GALN-SB8A-930-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 |
| 2.5° | 2325.7 | 2329.7 | 2327.0 | 2311.1 | 2284.6 | 2270.0 | 2262.0 | 2235.5 | 2218.3 | 2187.7 |
| 5° | 2539.3 | 2555.2 | 2546.0 | 2514.1 | 2463.7 | 2427.9 | 2417.3 | 2362.9 | 2313.8 | 2256.7 |
| 7.5° | 2766.2 | 2774.1 | 2756.9 | 2715.8 | 2648.1 | 2587.1 | 2577.8 | 2502.2 | 2423.9 | 2336.3 |
| 10° | 2962.5 | 2971.8 | 2945.3 | 2885.6 | 2808.6 | 2733.0 | 2719.7 | 2636.2 | 2543.3 | 2435.8 |
| 12.5° | 3127.0 | 3136.3 | 3101.8 | 3030.2 | 2945.3 | 2867.0 | 2853.7 | 2766.2 | 2664.0 | 2544.6 |
| 15° | 3251.8 | 3269.0 | 3222.6 | 3145.6 | 3054.1 | 2975.8 | 2969.2 | 2882.9 | 2783.4 | 2650.8 |
| 17.5° | 3324.7 | 3342.0 | 3298.2 | 3205.3 | 3127.0 | 3060.7 | 3052.8 | 2981.1 | 2888.2 | 2760.9 |
| 20° | 3336.7 | 3352.6 | 3306.2 | 3225.2 | 3160.2 | 3107.1 | 3103.2 | 3051.4 | 2983.8 | 2861.7 |
| 22.5° | 3300.8 | 3320.7 | 3278.3 | 3213.3 | 3168.2 | 3140.3 | 3135.0 | 3105.8 | 3067.3 | 2963.9 |
| 25° | 3263.7 | 3279.6 | 3247.8 | 3190.7 | 3166.8 | 3164.2 | 3168.2 | 3162.9 | 3154.9 | 3067.3 |
| 27.5° | 3261.0 | 3278.3 | 3242.5 | 3188.1 | 3174.8 | 3202.7 | 3206.7 | 3231.9 | 3238.5 | 3161.5 |
| 30° | 3283.6 | 3295.5 | 3261.0 | 3204.0 | 3197.4 | 3261.0 | 3262.4 | 3307.5 | 3318.1 | 3241.1 |
| 32.5° | 3332.7 | 3346.0 | 3311.5 | 3227.9 | 3218.6 | 3307.5 | 3311.5 | 3371.2 | 3388.4 | 3326.1 |
| 35° | 3448.1 | 3464.0 | 3424.2 | 3294.2 | 3261.0 | 3351.3 | 3363.2 | 3433.5 | 3468.0 | 3416.3 |
| 37.5° | 3736.0 | 3689.6 | 3635.2 | 3428.2 | 3357.9 | 3420.3 | 3440.2 | 3522.4 | 3583.4 | 3523.7 |
| 40° | 4451.1 | 4305.2 | 4135.3 | 3656.4 | 3527.7 | 3567.5 | 3583.4 | 3665.7 | 3749.3 | 3690.9 |
| 42.5° | 5524.4 | 5351.9 | 5078.6 | 4181.8 | 3783.8 | 3803.7 | 3815.6 | 3887.3 | 4005.3 | 3958.9 |
| 45° | 6481.0 | 6418.6 | 6140.0 | 5078.6 | 4262.7 | 4164.5 | 4179.1 | 4216.3 | 4390.1 | 4372.8 |
| 47.5° | 7216.0 | 7180.1 | 6965.2 | 6108.2 | 5072.0 | 4606.3 | 4647.5 | 4664.7 | 4915.4 | 4976.5 |
| 50° | 7781.1 | 7767.9 | 7575.5 | 7023.6 | 6129.4 | 5257.7 | 5272.3 | 5235.2 | 5610.6 | 5761.9 |
| 52.5° | 8314.5 | 8359.6 | 8217.6 | 7874.0 | 7258.4 | 6110.8 | 6108.2 | 5933.0 | 6439.8 | 6668.0 |
| 55° | 8796.1 | 8812.0 | 8826.6 | 8741.7 | 8394.1 | 7082.0 | 7056.8 | 6770.2 | 7401.7 | 7637.9 |
| 57.5° | 9248.5 | 9255.1 | 9385.1 | 9558.9 | 9576.2 | 8124.8 | 8078.3 | 7734.7 | 8452.5 | 8620.9 |
| 60° | 9552.3 | 9582.8 | 9857.4 | 10340.4 | 10551.3 | 9200.7 | 9175.5 | 8825.3 | 9521.8 | 9600.1 |
| 62.5° | 9114.5 | 9300.2 | 9992.8 | 10950.6 | 11472.0 | 10393.4 | 10381.5 | 10052.5 | 10646.8 | 10583.1 |
| 65° | 7377.8 | 7692.2 | 8910.2 | 11363.2 | 12375.5 | 11725.4 | 11742.7 | 11392.4 | 11802.4 | 11595.4 |
| 67.5° | 5160.9 | 5492.6 | 6933.4 | 11396.4 | 13385.1 | 13289.6 | 13389.1 | 12839.9 | 13029.6 | 12565.2 |
| 70° | 3568.8 | 3740.0 | 4678.0 | 10682.6 | 14171.9 | 15444.2 | 15441.5 | 14617.7 | 14250.2 | 13007.0 |
| 72.5° | 2400.0 | 2488.9 | 3038.2 | 8475.0 | 13593.4 | 16724.5 | 16647.5 | 15976.2 | 14661.4 | 12164.6 |
| 75° | 1012.3 | 1077.3 | 1406.3 | 4762.9 | 10754.3 | 15300.9 | 15092.6 | 14118.8 | 13026.9 | 9578.8 |
| 77.5° | 321.1 | 348.9 | 554.6 | 1704.8 | 5923.7 | 11501.2 | 11281.0 | 8817.3 | 8731.1 | 4805.3 |
| 80° | 152.6 | 177.8 | 311.8 | 684.6 | 2331.0 | 6255.4 | 6224.9 | 4000.0 | 3755.9 | 1297.5 |
| 82.5° | 66.3 | 78.3 | 172.5 | 366.2 | 1042.8 | 2231.5 | 2276.6 | 1361.2 | 1126.4 | 492.2 |
| 85° | 21.2 | 27.9 | 79.6 | 168.5 | 440.5 | 554.6 | 547.9 | 323.7 | 453.7 | 268.0 |
| 87.5° | 0.0 | 0.0 | 26.5 | 38.5 | 45.1 | 31.8 | 35.8 | 27.9 | 126.0 | 74.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P955118
 CATALOG NUMBER: GALN-SB8A-930-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2129.4 | 0° | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 | 2129.4 |
| 2155.9 | 2.5° | 2140.0 | 2118.8 | 2081.6 | 2047.1 | 2016.6 | 1986.1 | 1967.5 | 1941.0 | 1938.3 | 1938.3 |
| 2190.4 | 5° | 2154.6 | 2120.1 | 2053.7 | 1983.4 | 1902.5 | 1825.5 | 1748.6 | 1674.3 | 1650.4 | 1633.2 |
| 2246.1 | 7.5° | 2197.0 | 2142.6 | 2037.8 | 1903.8 | 1749.9 | 1581.4 | 1463.4 | 1336.0 | 1286.9 | 1260.4 |
| 2320.4 | 10° | 2258.1 | 2183.8 | 2024.6 | 1789.7 | 1540.3 | 1310.8 | 1142.3 | 1004.3 | 951.2 | 928.7 |
| 2401.3 | 12.5° | 2325.7 | 2234.2 | 2000.7 | 1647.8 | 1310.8 | 1036.2 | 871.6 | 808.0 | 800.0 | 800.0 |
| 2498.2 | 15° | 2406.6 | 2295.2 | 1959.5 | 1480.6 | 1070.7 | 819.9 | 761.5 | 764.2 | 772.1 | 777.5 |
| 2592.4 | 17.5° | 2490.2 | 2360.2 | 1894.5 | 1293.5 | 858.4 | 737.6 | 739.0 | 743.0 | 749.6 | 754.9 |
| 2694.5 | 20° | 2580.4 | 2425.2 | 1808.3 | 1094.5 | 736.3 | 713.8 | 717.7 | 721.7 | 727.0 | 729.7 |
| 2790.1 | 22.5° | 2677.3 | 2486.2 | 1706.1 | 899.5 | 695.2 | 693.9 | 695.2 | 699.2 | 705.8 | 705.8 |
| 2901.5 | 25° | 2780.8 | 2553.9 | 1589.4 | 757.5 | 674.0 | 674.0 | 676.6 | 679.3 | 684.6 | 684.6 |
| 3009.0 | 27.5° | 2886.9 | 2616.3 | 1466.0 | 683.3 | 655.4 | 654.1 | 654.1 | 658.0 | 660.7 | 662.0 |
| 3115.1 | 30° | 3003.7 | 2689.2 | 1342.6 | 667.3 | 640.8 | 634.2 | 630.2 | 632.8 | 635.5 | 636.8 |
| 3226.6 | 32.5° | 3123.1 | 2759.6 | 1232.5 | 674.0 | 626.2 | 614.3 | 601.0 | 598.3 | 598.3 | 603.7 |
| 3342.0 | 35° | 3255.7 | 2836.5 | 1147.6 | 696.5 | 618.2 | 585.1 | 563.9 | 551.9 | 553.2 | 561.2 |
| 3480.0 | 37.5° | 3414.9 | 2929.4 | 1085.2 | 716.4 | 612.9 | 551.9 | 517.4 | 502.8 | 493.5 | 502.8 |
| 3669.7 | 40° | 3623.2 | 3066.0 | 1040.1 | 732.3 | 606.3 | 513.4 | 467.0 | 443.1 | 425.9 | 431.2 |
| 3964.2 | 42.5° | 3929.7 | 3280.9 | 1022.9 | 733.7 | 591.7 | 468.3 | 415.3 | 383.4 | 358.2 | 359.5 |
| 4407.3 | 45° | 4359.6 | 3620.6 | 1111.8 | 716.4 | 559.9 | 419.2 | 360.9 | 318.4 | 302.5 | 298.5 |
| 5069.3 | 47.5° | 4948.6 | 4115.4 | 1317.4 | 680.6 | 513.4 | 371.5 | 307.8 | 272.0 | 260.0 | 253.4 |
| 5938.3 | 50° | 5738.0 | 4750.9 | 1545.6 | 640.8 | 467.0 | 326.4 | 264.0 | 241.5 | 233.5 | 226.9 |
| 6969.2 | 52.5° | 6653.4 | 5395.7 | 1732.7 | 601.0 | 420.6 | 286.6 | 236.2 | 222.9 | 216.3 | 210.9 |
| 7964.2 | 55° | 7493.2 | 5840.2 | 1722.1 | 558.5 | 375.5 | 254.7 | 216.3 | 208.3 | 200.3 | 195.0 |
| 8821.3 | 57.5° | 8016.0 | 5902.5 | 1419.6 | 512.1 | 323.7 | 229.5 | 197.7 | 192.4 | 183.1 | 176.5 |
| 9562.9 | 60° | 8256.1 | 5547.0 | 995.0 | 451.1 | 272.0 | 205.6 | 177.8 | 175.1 | 163.2 | 153.9 |
| 10264.7 | 62.5° | 8299.9 | 4886.3 | 663.4 | 375.5 | 226.9 | 183.1 | 157.9 | 153.9 | 138.0 | 122.1 |
| 10835.2 | 65° | 8122.1 | 3941.6 | 459.0 | 293.2 | 193.7 | 159.2 | 135.3 | 127.4 | 110.1 | 94.2 |
| 10970.5 | 67.5° | 7559.6 | 2767.5 | 319.7 | 210.9 | 164.5 | 126.0 | 107.5 | 104.8 | 91.5 | 78.3 |
| 10280.7 | 70° | 6528.7 | 1577.5 | 213.6 | 157.9 | 130.0 | 86.2 | 84.9 | 87.6 | 74.3 | 63.7 |
| 8399.4 | 72.5° | 5005.7 | 721.7 | 132.7 | 115.4 | 88.9 | 58.4 | 67.7 | 69.0 | 57.0 | 47.8 |
| 5240.5 | 75° | 2946.6 | 309.1 | 83.6 | 74.3 | 45.1 | 38.5 | 49.1 | 50.4 | 38.5 | 30.5 |
| 1915.8 | 77.5° | 1003.0 | 116.8 | 53.1 | 43.8 | 22.6 | 21.2 | 31.8 | 31.8 | 21.2 | 11.9 |
| 384.7 | 80° | 228.2 | 43.8 | 26.5 | 17.2 | 10.6 | 9.3 | 10.6 | 9.3 | 5.3 | 1.3 |
| 118.1 | 82.5° | 65.0 | 17.2 | 10.6 | 6.6 | 4.0 | 4.0 | 1.3 | 0.0 | 0.0 | 0.0 |
| 41.1 | 85° | 18.6 | 8.0 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 14.6 | 87.5° | 8.0 | 1.3 | 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° |
| 2129.4 |
| 1945.0 |
| 1641.1 |
| 1264.4 |
| 928.7 |
| 800.0 |
| 777.5 |
| 754.9 |
| 731.0 |
| 708.5 |
| 685.9 |
| 663.4 |
| 639.5 |
| 607.6 |
| 565.2 |
| 500.2 |
| 428.5 |
| 354.2 |
| 293.2 |
| 249.4 |
| 225.5 |
| 209.6 |
| 192.4 |
| 175.1 |
| 151.2 |
| 114.1 |
| 88.9 |
| 74.3 |
| 58.4 |
| 42.5 |
| 26.5 |
| 9.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)