

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: P951107

Luminaire Tested: **GALN-SB5B-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951107
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-SB5B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA 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: 20323 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

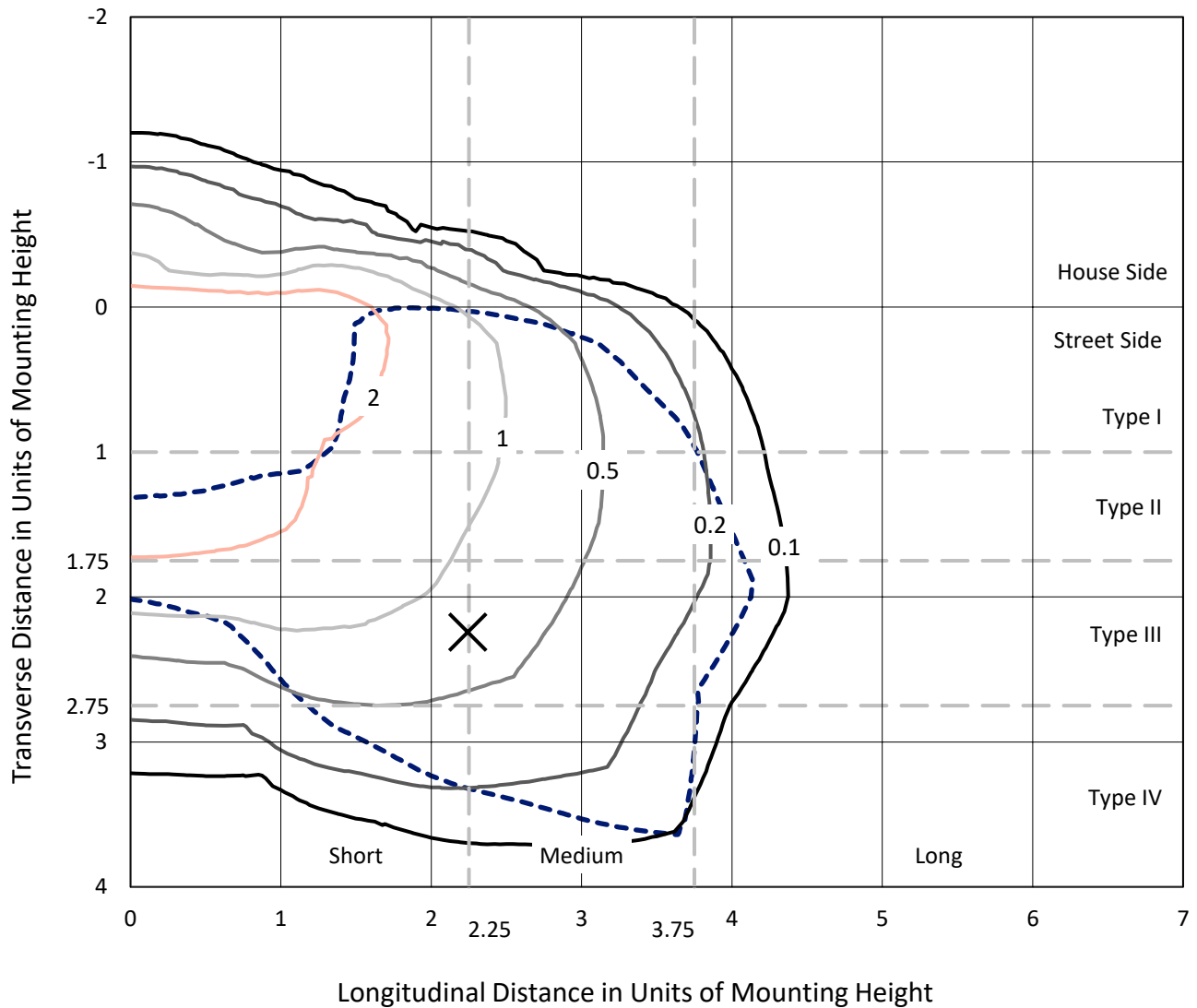
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951107
 CATALOG NUMBER: GALN-SB5B-835-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

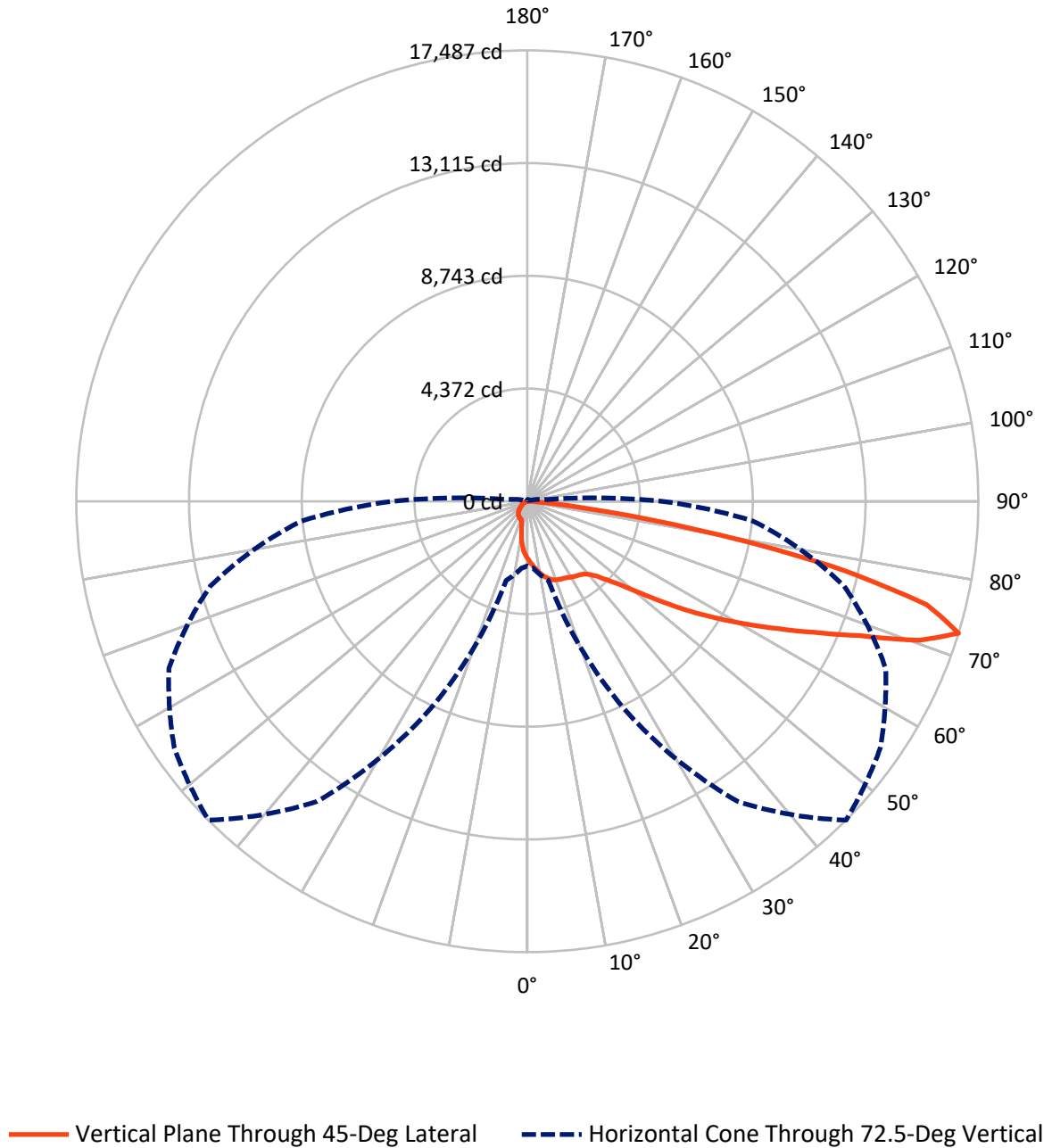
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P951107
CATALOG NUMBER: GALN-SB5B-835-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P951107
 CATALOG NUMBER: GALN-SB5B-835-U-T4W-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2135.4 | 0.0 | 2135.4 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 18187.6 | 0.0 | 18187.6 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 20323.0 | 0.0 | 20323.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 209.8 | 1.0 |
| 10°-20° | 613.1 | 3.0 |
| 20°-30° | 1006.8 | 5.0 |
| 30°-40° | 1427.8 | 7.0 |
| 40°-50° | 2360.1 | 11.6 |
| 50°-60° | 4239.6 | 20.9 |
| 60°-70° | 5886.9 | 29.0 |
| 70°-80° | 4270.2 | 21.0 |
| 80°-90° | 308.7 | 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° | 20323.0 | 100.0 |
| 0°-180° | 20323.0 | 100.0 |

Coefficient of Utilization



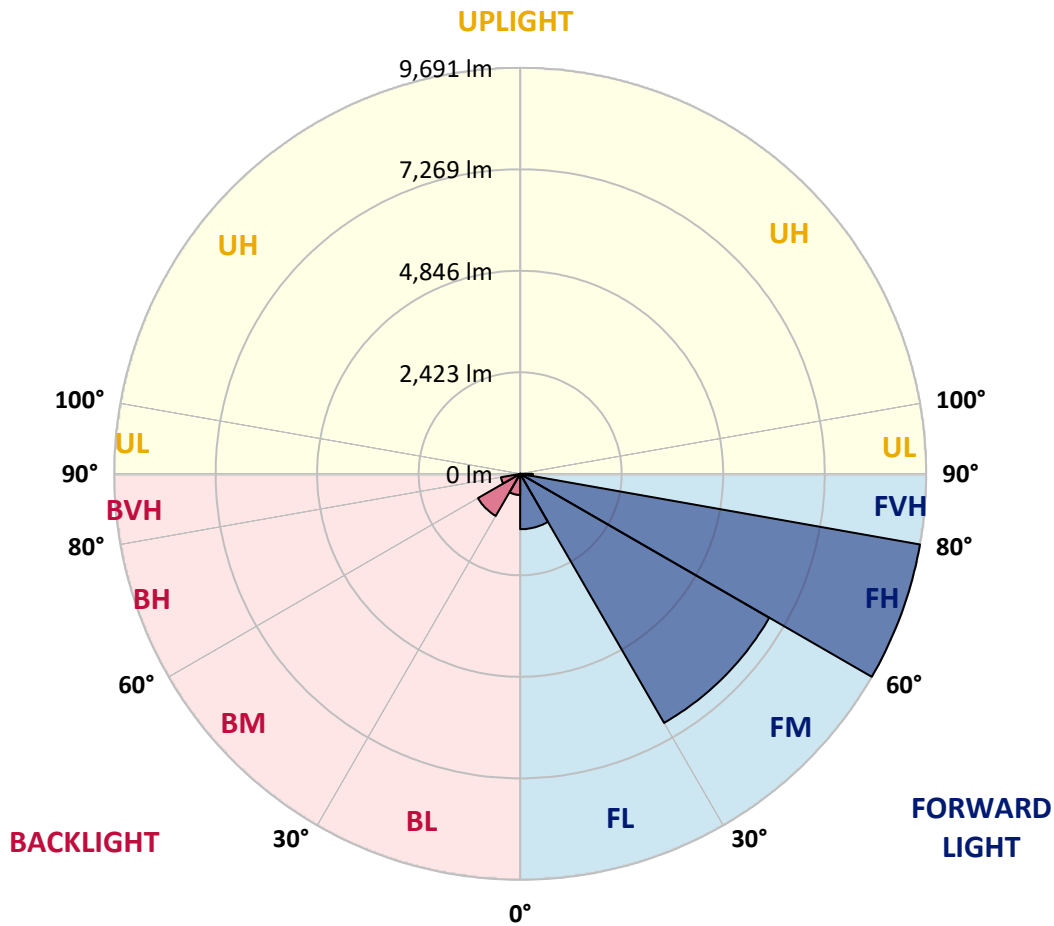
REPORT NUMBER: P951107
 CATALOG NUMBER: GALN-SB5B-835-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1323.8 | 6.5 | | | |
| FM (30°-60°) | 6866.2 | 33.8 | | | |
| FH (60°-80°) | 9691.5 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 306.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 505.8 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 1161.3 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 465.7 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 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: P951107
 CATALOG NUMBER: GALN-SB5B-835-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 |
| 2.5° | 2431.7 | 2435.9 | 2433.1 | 2416.5 | 2388.7 | 2373.5 | 2365.1 | 2337.4 | 2319.4 | 2287.5 |
| 5° | 2655.1 | 2671.7 | 2662.0 | 2628.7 | 2576.0 | 2538.5 | 2527.4 | 2470.6 | 2419.2 | 2359.6 |
| 7.5° | 2892.3 | 2900.6 | 2882.6 | 2839.6 | 2768.8 | 2705.0 | 2695.3 | 2616.2 | 2534.4 | 2442.8 |
| 10° | 3097.6 | 3107.3 | 3079.5 | 3017.1 | 2936.7 | 2857.6 | 2843.7 | 2756.3 | 2659.2 | 2546.9 |
| 12.5° | 3269.6 | 3279.3 | 3243.2 | 3168.3 | 3079.5 | 2997.7 | 2983.8 | 2892.3 | 2785.5 | 2660.6 |
| 15° | 3400.0 | 3418.0 | 3369.5 | 3289.0 | 3193.3 | 3111.5 | 3104.5 | 3014.3 | 2910.3 | 2771.6 |
| 17.5° | 3476.3 | 3494.3 | 3448.5 | 3351.4 | 3269.6 | 3200.2 | 3191.9 | 3117.0 | 3019.9 | 2886.7 |
| 20° | 3488.8 | 3505.4 | 3456.9 | 3372.2 | 3304.3 | 3248.8 | 3244.6 | 3190.5 | 3119.8 | 2992.2 |
| 22.5° | 3451.3 | 3472.1 | 3427.7 | 3359.8 | 3312.6 | 3283.5 | 3277.9 | 3247.4 | 3207.2 | 3099.0 |
| 25° | 3412.5 | 3429.1 | 3395.8 | 3336.2 | 3311.2 | 3308.4 | 3312.6 | 3307.0 | 3298.7 | 3207.2 |
| 27.5° | 3409.7 | 3427.7 | 3390.3 | 3333.4 | 3319.5 | 3348.7 | 3352.8 | 3379.2 | 3386.1 | 3305.7 |
| 30° | 3433.3 | 3445.8 | 3409.7 | 3350.0 | 3343.1 | 3409.7 | 3411.1 | 3458.2 | 3469.3 | 3388.9 |
| 32.5° | 3484.6 | 3498.5 | 3462.4 | 3375.0 | 3365.3 | 3458.2 | 3462.4 | 3524.8 | 3542.9 | 3477.7 |
| 35° | 3605.3 | 3621.9 | 3580.3 | 3444.4 | 3409.7 | 3504.0 | 3516.5 | 3590.0 | 3626.1 | 3572.0 |
| 37.5° | 3906.3 | 3857.8 | 3800.9 | 3584.5 | 3511.0 | 3576.2 | 3597.0 | 3683.0 | 3746.8 | 3684.4 |
| 40° | 4654.0 | 4501.4 | 4323.8 | 3823.1 | 3688.5 | 3730.1 | 3746.8 | 3832.8 | 3920.2 | 3859.1 |
| 42.5° | 5776.2 | 5595.9 | 5310.1 | 4372.4 | 3956.2 | 3977.1 | 3989.5 | 4064.4 | 4187.9 | 4139.4 |
| 45° | 6776.4 | 6711.2 | 6419.9 | 5310.1 | 4457.0 | 4354.4 | 4369.6 | 4408.5 | 4590.2 | 4572.2 |
| 47.5° | 7544.9 | 7507.4 | 7282.7 | 6386.6 | 5303.2 | 4816.3 | 4859.3 | 4877.3 | 5139.5 | 5203.3 |
| 50° | 8135.8 | 8122.0 | 7920.8 | 7343.7 | 6408.8 | 5497.4 | 5512.7 | 5473.8 | 5866.4 | 6024.5 |
| 52.5° | 8693.5 | 8740.6 | 8592.2 | 8232.9 | 7589.3 | 6389.4 | 6386.6 | 6203.5 | 6733.4 | 6972.0 |
| 55° | 9197.0 | 9213.7 | 9228.9 | 9140.1 | 8776.7 | 7404.8 | 7378.4 | 7078.8 | 7739.1 | 7986.0 |
| 57.5° | 9670.0 | 9677.0 | 9812.9 | 9994.6 | 10012.7 | 8495.1 | 8446.6 | 8087.3 | 8837.7 | 9013.9 |
| 60° | 9987.7 | 10019.6 | 10306.8 | 10811.7 | 11032.3 | 9620.1 | 9593.8 | 9227.5 | 9955.8 | 10037.7 |
| 62.5° | 9529.9 | 9724.1 | 10448.3 | 11449.8 | 11995.0 | 10867.2 | 10854.7 | 10510.7 | 11132.1 | 11065.6 |
| 65° | 7714.1 | 8042.9 | 9316.3 | 11881.2 | 12939.6 | 12259.9 | 12278.0 | 11911.7 | 12340.4 | 12124.0 |
| 67.5° | 5396.1 | 5742.9 | 7249.4 | 11915.9 | 13995.3 | 13895.4 | 13999.4 | 13425.2 | 13623.5 | 13138.0 |
| 70° | 3731.5 | 3910.5 | 4891.2 | 11169.6 | 14817.9 | 16148.2 | 16145.4 | 15284.0 | 14899.7 | 13599.9 |
| 72.5° | 2509.4 | 2602.4 | 3176.6 | 8861.3 | 14213.1 | 17486.8 | 17406.4 | 16704.5 | 15329.8 | 12719.1 |
| 75° | 1058.4 | 1126.4 | 1470.4 | 4980.0 | 11244.5 | 15998.4 | 15780.6 | 14762.4 | 13620.7 | 10015.5 |
| 77.5° | 335.7 | 364.8 | 579.8 | 1782.5 | 6193.8 | 12025.5 | 11795.2 | 9219.2 | 9129.0 | 5024.4 |
| 80° | 159.5 | 185.9 | 326.0 | 715.8 | 2437.3 | 6540.6 | 6508.7 | 4182.4 | 3927.1 | 1356.7 |
| 82.5° | 69.4 | 81.8 | 180.3 | 382.9 | 1090.3 | 2333.2 | 2380.4 | 1423.2 | 1177.7 | 514.6 |
| 85° | 22.2 | 29.1 | 83.2 | 176.2 | 460.5 | 579.8 | 572.9 | 338.5 | 474.4 | 280.2 |
| 87.5° | 0.0 | 0.0 | 27.7 | 40.2 | 47.2 | 33.3 | 37.5 | 29.1 | 131.8 | 77.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951107
 CATALOG NUMBER: GALN-SB5B-835-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2226.4 | 0° | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 | 2226.4 |
| 2254.2 | 2.5° | 2237.5 | 2215.3 | 2176.5 | 2140.4 | 2108.5 | 2076.6 | 2057.2 | 2029.4 | 2026.7 | 2026.7 |
| 2290.2 | 5° | 2252.8 | 2216.7 | 2147.4 | 2073.8 | 1989.2 | 1908.8 | 1828.3 | 1750.6 | 1725.7 | 1707.6 |
| 2348.5 | 7.5° | 2297.2 | 2240.3 | 2130.7 | 1990.6 | 1829.7 | 1653.5 | 1530.1 | 1396.9 | 1345.6 | 1317.8 |
| 2426.2 | 10° | 2361.0 | 2283.3 | 2116.8 | 1871.3 | 1610.5 | 1370.5 | 1194.4 | 1050.1 | 994.6 | 971.0 |
| 2510.8 | 12.5° | 2431.7 | 2336.0 | 2091.9 | 1722.9 | 1370.5 | 1083.4 | 911.4 | 844.8 | 836.5 | 836.5 |
| 2612.1 | 15° | 2516.3 | 2399.8 | 2048.9 | 1548.1 | 1119.5 | 857.3 | 796.2 | 799.0 | 807.3 | 812.9 |
| 2710.6 | 17.5° | 2603.7 | 2467.8 | 1980.9 | 1352.5 | 897.5 | 771.3 | 772.7 | 776.8 | 783.8 | 789.3 |
| 2817.4 | 20° | 2698.1 | 2535.8 | 1890.7 | 1144.4 | 769.9 | 746.3 | 750.5 | 754.6 | 760.2 | 763.0 |
| 2917.2 | 22.5° | 2799.3 | 2599.6 | 1783.9 | 940.5 | 726.9 | 725.5 | 726.9 | 731.0 | 738.0 | 738.0 |
| 3033.8 | 25° | 2907.5 | 2670.3 | 1661.8 | 792.1 | 704.7 | 704.7 | 707.5 | 710.2 | 715.8 | 715.8 |
| 3146.1 | 27.5° | 3018.5 | 2735.5 | 1532.8 | 714.4 | 685.3 | 683.9 | 683.9 | 688.0 | 690.8 | 692.2 |
| 3257.1 | 30° | 3140.6 | 2811.8 | 1403.8 | 697.8 | 670.0 | 663.1 | 658.9 | 661.7 | 664.5 | 665.8 |
| 3373.6 | 32.5° | 3265.4 | 2885.3 | 1288.7 | 704.7 | 654.8 | 642.3 | 628.4 | 625.6 | 625.6 | 631.2 |
| 3494.3 | 35° | 3404.1 | 2965.8 | 1199.9 | 728.3 | 646.4 | 611.7 | 589.6 | 577.1 | 578.5 | 586.8 |
| 3638.6 | 37.5° | 3570.6 | 3062.9 | 1134.7 | 749.1 | 640.9 | 577.1 | 541.0 | 525.7 | 516.0 | 525.7 |
| 3836.9 | 40° | 3788.4 | 3205.8 | 1087.6 | 765.7 | 633.9 | 536.8 | 488.3 | 463.3 | 445.3 | 450.8 |
| 4144.9 | 42.5° | 4108.8 | 3430.5 | 1069.5 | 767.1 | 618.7 | 489.7 | 434.2 | 400.9 | 374.5 | 375.9 |
| 4608.2 | 45° | 4558.3 | 3785.6 | 1162.5 | 749.1 | 585.4 | 438.3 | 377.3 | 332.9 | 316.3 | 312.1 |
| 5300.4 | 47.5° | 5174.2 | 4303.0 | 1377.5 | 711.6 | 536.8 | 388.4 | 321.8 | 284.4 | 271.9 | 265.0 |
| 6209.0 | 50° | 5999.6 | 4967.5 | 1616.1 | 670.0 | 488.3 | 341.2 | 276.0 | 252.5 | 244.1 | 237.2 |
| 7286.9 | 52.5° | 6956.7 | 5641.7 | 1811.7 | 628.4 | 439.7 | 299.6 | 246.9 | 233.0 | 226.1 | 220.6 |
| 8327.3 | 55° | 7834.8 | 6106.4 | 1800.6 | 584.0 | 392.6 | 266.3 | 226.1 | 217.8 | 209.5 | 203.9 |
| 9223.4 | 57.5° | 8381.4 | 6171.6 | 1484.3 | 535.5 | 338.5 | 240.0 | 206.7 | 201.1 | 191.4 | 184.5 |
| 9998.8 | 60° | 8632.4 | 5799.8 | 1040.4 | 471.6 | 284.4 | 215.0 | 185.9 | 183.1 | 170.6 | 160.9 |
| 10732.6 | 62.5° | 8678.2 | 5109.0 | 693.6 | 392.6 | 237.2 | 191.4 | 165.1 | 160.9 | 144.3 | 127.6 |
| 11329.1 | 65° | 8492.3 | 4121.3 | 480.0 | 306.6 | 202.5 | 166.5 | 141.5 | 133.2 | 115.1 | 98.5 |
| 11470.6 | 67.5° | 7904.2 | 2893.7 | 334.3 | 220.6 | 172.0 | 131.8 | 112.4 | 109.6 | 95.7 | 81.8 |
| 10749.3 | 70° | 6826.3 | 1649.4 | 223.3 | 165.1 | 135.9 | 90.2 | 88.8 | 91.6 | 77.7 | 66.6 |
| 8782.3 | 72.5° | 5233.8 | 754.6 | 138.7 | 120.7 | 92.9 | 61.0 | 70.7 | 72.1 | 59.6 | 49.9 |
| 5479.4 | 75° | 3080.9 | 323.2 | 87.4 | 77.7 | 47.2 | 40.2 | 51.3 | 52.7 | 40.2 | 31.9 |
| 2003.1 | 77.5° | 1048.7 | 122.1 | 55.5 | 45.8 | 23.6 | 22.2 | 33.3 | 33.3 | 22.2 | 12.5 |
| 402.3 | 80° | 238.6 | 45.8 | 27.7 | 18.0 | 11.1 | 9.7 | 11.1 | 9.7 | 5.5 | 1.4 |
| 123.5 | 82.5° | 68.0 | 18.0 | 11.1 | 6.9 | 4.2 | 4.2 | 1.4 | 0.0 | 0.0 | 0.0 |
| 43.0 | 85° | 19.4 | 8.3 | 2.8 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 15.3 | 87.5° | 8.3 | 1.4 | 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

| |
|-------------|
| <u>180°</u> |
| 2226.4 |
| 2033.6 |
| 1715.9 |
| 1322.0 |
| 971.0 |
| 836.5 |
| 812.9 |
| 789.3 |
| 764.3 |
| 740.8 |
| 717.2 |
| 693.6 |
| 668.6 |
| 635.3 |
| 590.9 |
| 523.0 |
| 448.1 |
| 370.4 |
| 306.6 |
| 260.8 |
| 235.8 |
| 219.2 |
| 201.1 |
| 183.1 |
| 158.1 |
| 119.3 |
| 92.9 |
| 77.7 |
| 61.0 |
| 44.4 |
| 27.7 |
| 9.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)