

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: P941868

Luminaire Tested: **GALN-SB5C-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26568 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

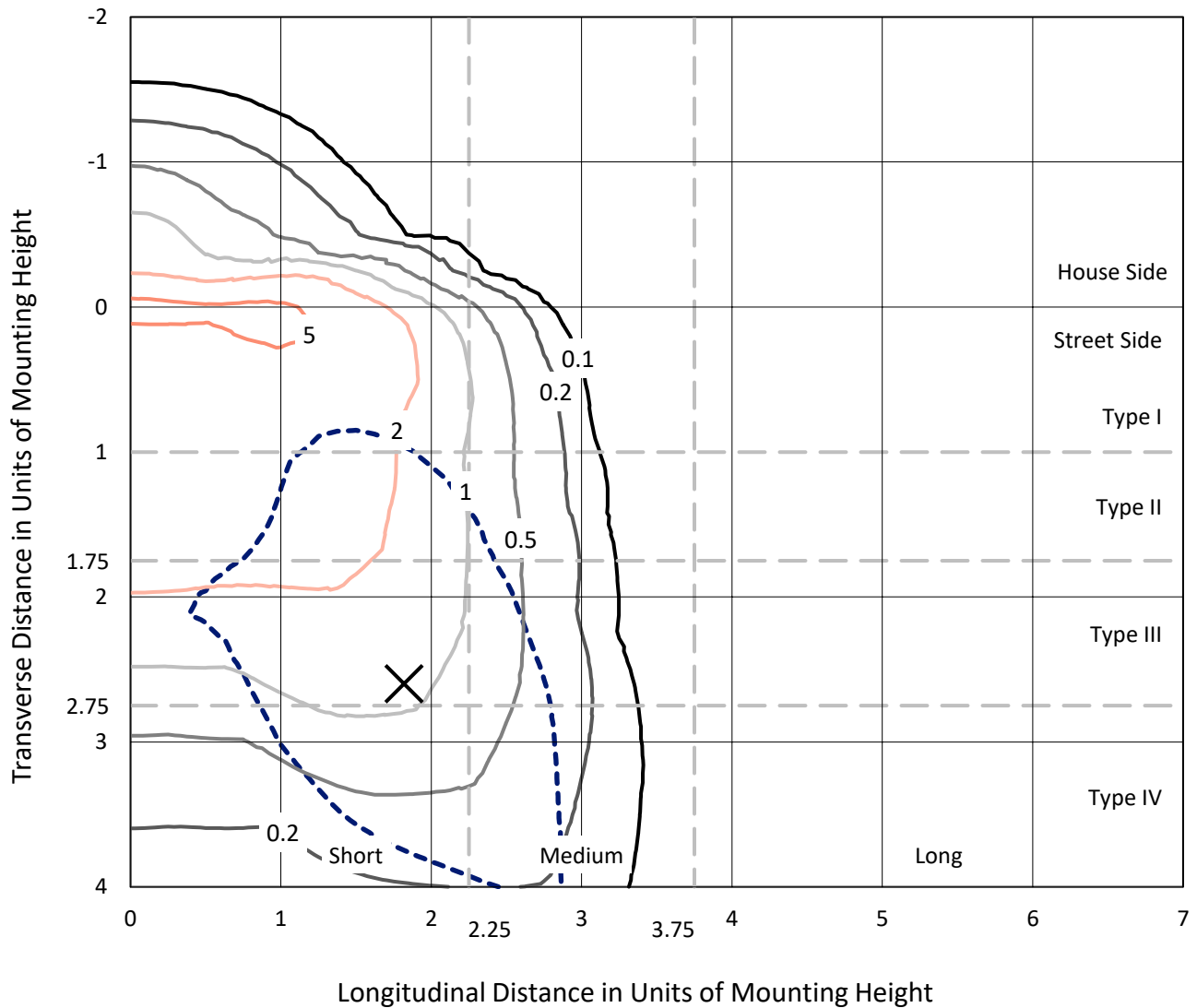
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941868
 CATALOG NUMBER: GALN-SB5C-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

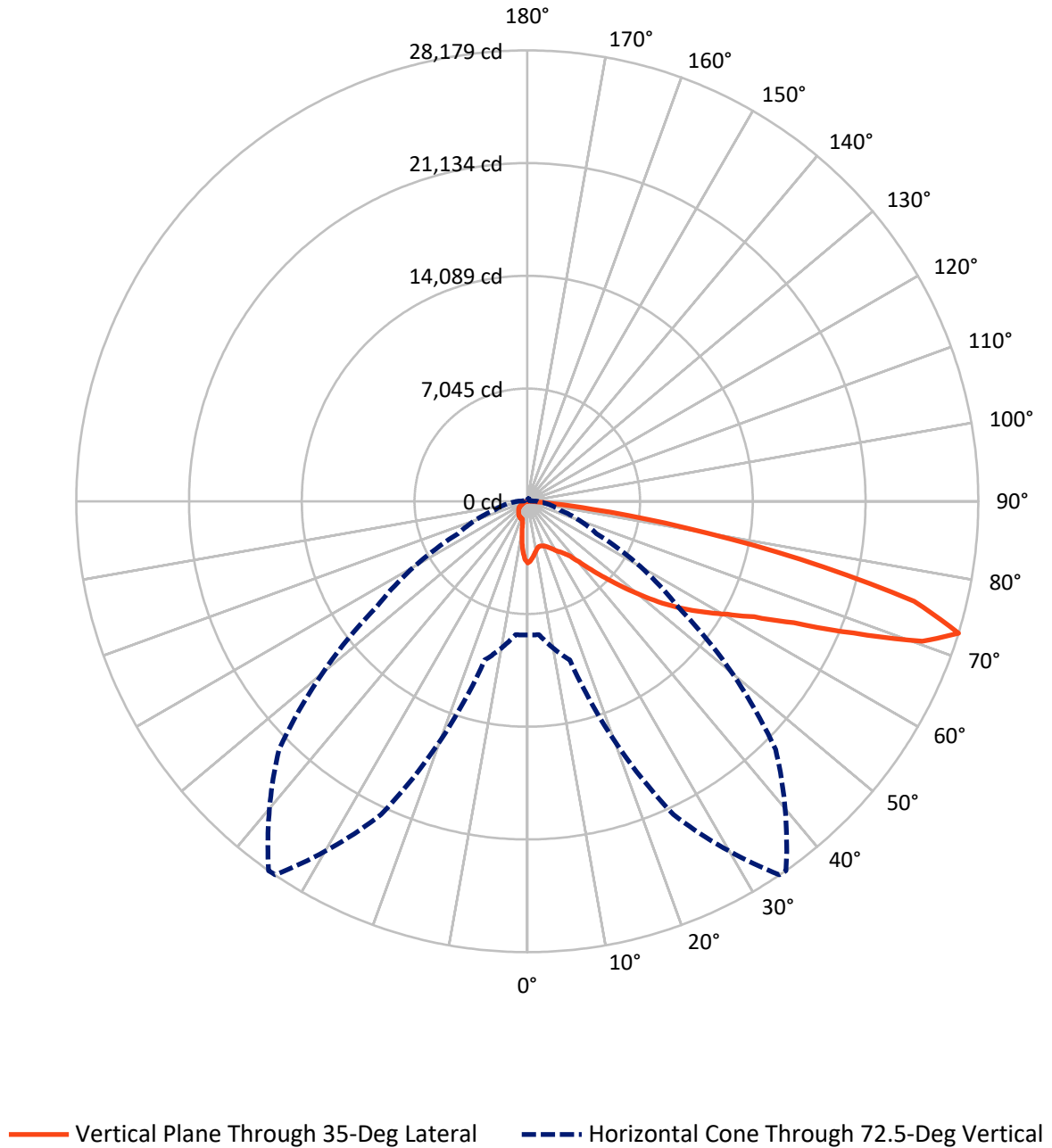
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P941868
CATALOG NUMBER: GALN-SB5C-835-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941868
 CATALOG NUMBER: GALN-SB5C-835-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2990.1 | 0.0 | 2990.1 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 23577.9 | 0.0 | 23577.9 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 26568.0 | 0.0 | 26568.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 316.4 | 1.2 |
| 10°-20° | 740.2 | 2.8 |
| 20°-30° | 1202.5 | 4.5 |
| 30°-40° | 2006.3 | 7.6 |
| 40°-50° | 3796.0 | 14.3 |
| 50°-60° | 6031.8 | 22.7 |
| 60°-70° | 7461.7 | 28.1 |
| 70°-80° | 4638.3 | 17.5 |
| 80°-90° | 374.8 | 1.4 |
| 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° | 26568.0 | 100.0 |
| 0°-180° | 26568.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P941868

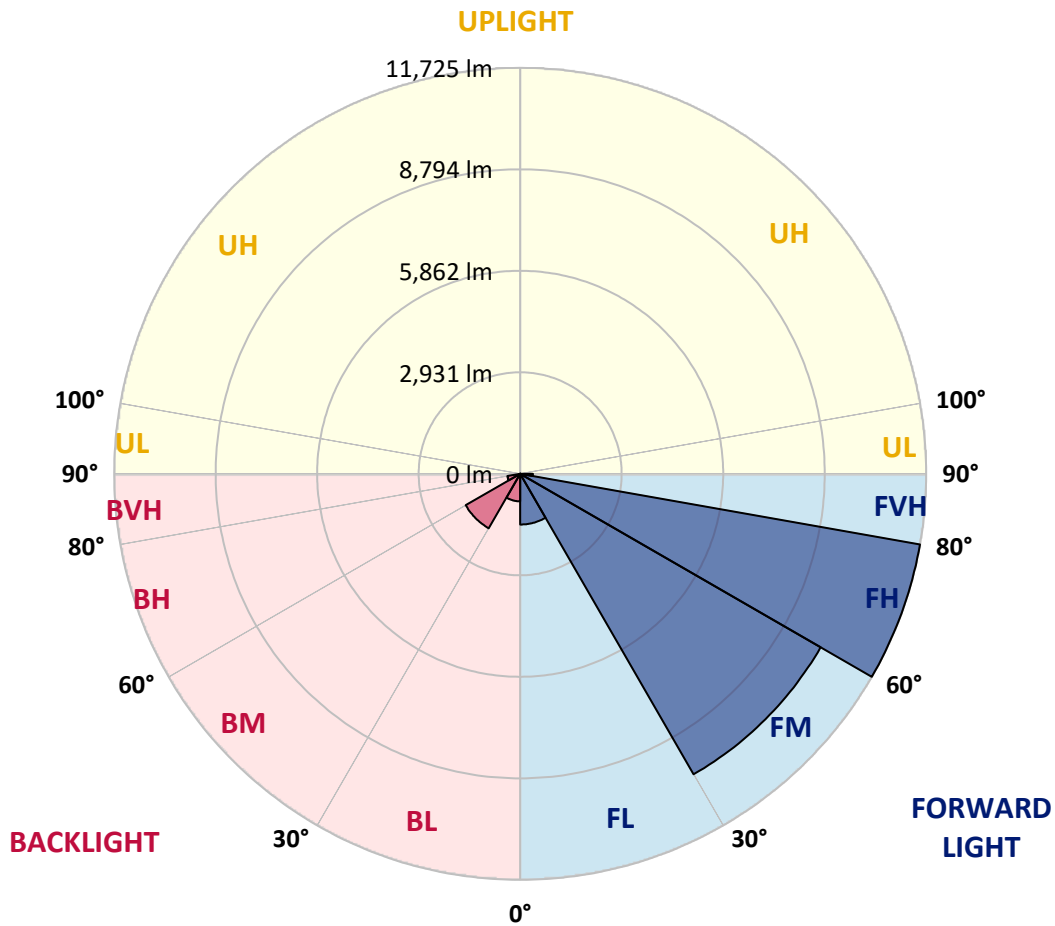
CATALOG NUMBER: GALN-SB5C-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1464.6 | 5.5 | | | |
| FM (30°-60°) | 10018.8 | 37.7 | | | |
| FH (60°-80°) | 11724.8 | 44.1 | | | G4/12000 |
| FVH (80°-90°) | 369.7 | 1.4 | | | G3/500 |
| BL (0°-30°) | 794.5 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 1815.3 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 375.2 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.1 | 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: P941868

CATALOG NUMBER: GALN-SB5C-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 |
| 2.5° | 3679.3 | 3710.4 | 3716.3 | 3726.0 | 3726.0 | 3737.7 | 3757.2 | 3784.4 | 3829.2 | 3852.5 |
| 5° | 3391.2 | 3414.5 | 3443.7 | 3467.1 | 3511.9 | 3517.7 | 3593.6 | 3667.6 | 3770.8 | 3848.6 |
| 7.5° | 3101.1 | 3128.4 | 3167.3 | 3223.8 | 3282.2 | 3299.7 | 3414.5 | 3539.1 | 3702.6 | 3848.6 |
| 10° | 2896.7 | 2898.7 | 2933.7 | 2990.1 | 3083.6 | 3105.0 | 3245.2 | 3422.3 | 3626.7 | 3825.3 |
| 12.5° | 2781.8 | 2795.5 | 2811.1 | 2853.9 | 2943.4 | 2957.1 | 3107.0 | 3315.2 | 3550.8 | 3811.7 |
| 15° | 2781.8 | 2791.6 | 2801.3 | 2822.7 | 2894.8 | 2906.4 | 3038.8 | 3247.1 | 3511.9 | 3817.5 |
| 17.5° | 2811.1 | 2826.6 | 2818.8 | 2844.1 | 2920.1 | 2927.9 | 3044.7 | 3227.6 | 3509.9 | 3854.5 |
| 20° | 2881.1 | 2892.8 | 2877.2 | 2892.8 | 2968.7 | 2984.3 | 3105.0 | 3264.6 | 3543.0 | 3918.7 |
| 22.5° | 2992.1 | 2997.9 | 2960.9 | 2972.6 | 3050.5 | 3070.0 | 3210.1 | 3369.8 | 3622.8 | 4021.9 |
| 25° | 3132.3 | 3143.9 | 3087.5 | 3101.1 | 3175.1 | 3198.4 | 3360.0 | 3527.4 | 3749.4 | 4164.0 |
| 27.5° | 3293.8 | 3299.7 | 3251.0 | 3249.1 | 3344.4 | 3377.5 | 3541.1 | 3722.1 | 3918.7 | 4343.1 |
| 30° | 3478.8 | 3496.3 | 3449.6 | 3441.8 | 3562.5 | 3589.7 | 3751.3 | 3961.6 | 4167.9 | 4611.8 |
| 32.5° | 3624.8 | 3638.4 | 3611.1 | 3630.6 | 3753.3 | 3774.7 | 4006.3 | 4300.3 | 4559.2 | 4993.3 |
| 35° | 3835.0 | 3842.8 | 3780.5 | 3815.6 | 3955.7 | 4010.2 | 4354.8 | 4775.3 | 5051.7 | 5472.2 |
| 37.5° | 4596.2 | 4596.2 | 4331.4 | 4158.2 | 4292.5 | 4341.2 | 4831.7 | 5372.9 | 5659.1 | 6114.6 |
| 40° | 5649.4 | 5631.8 | 5244.4 | 4890.1 | 4872.6 | 4968.0 | 5511.1 | 6126.3 | 6443.6 | 6885.5 |
| 42.5° | 6772.6 | 6745.4 | 6217.8 | 5867.4 | 5809.0 | 5842.1 | 6295.7 | 7054.9 | 7378.0 | 7825.8 |
| 45° | 7769.3 | 7761.5 | 7278.8 | 6807.6 | 6702.5 | 6807.6 | 7274.9 | 8141.1 | 8372.8 | 8843.9 |
| 47.5° | 8604.5 | 8604.5 | 8252.1 | 7944.5 | 7890.0 | 7952.3 | 8600.6 | 9346.2 | 9324.7 | 9928.2 |
| 50° | 9566.1 | 9558.4 | 9223.5 | 9091.1 | 9147.6 | 9235.2 | 10126.8 | 10615.4 | 10309.8 | 10993.1 |
| 52.5° | 10239.7 | 10286.4 | 10171.6 | 10150.2 | 10438.3 | 10590.1 | 11676.4 | 11857.4 | 11191.6 | 12003.4 |
| 55° | 10773.1 | 10827.6 | 10960.0 | 11109.9 | 11664.7 | 11863.3 | 13177.3 | 13035.2 | 11929.4 | 12879.4 |
| 57.5° | 11528.4 | 11450.6 | 11655.0 | 11950.9 | 12848.3 | 13087.7 | 14631.5 | 14146.7 | 12523.2 | 13590.0 |
| 60° | 12445.3 | 12457.0 | 12492.0 | 12865.8 | 14029.9 | 14337.5 | 16064.3 | 15198.0 | 12904.7 | 14026.1 |
| 62.5° | 13547.2 | 13564.7 | 13636.7 | 14211.0 | 15616.5 | 15906.6 | 17590.5 | 16058.4 | 13079.9 | 13903.4 |
| 65° | 13471.2 | 13545.2 | 14349.2 | 16313.4 | 18028.5 | 18314.7 | 19371.7 | 16661.9 | 12815.2 | 12782.1 |
| 67.5° | 12272.1 | 12392.8 | 13737.9 | 18824.7 | 21664.9 | 21984.2 | 21524.8 | 16780.6 | 11672.5 | 9939.9 |
| 70° | 10699.1 | 10742.0 | 12359.7 | 21082.9 | 25875.7 | 26198.8 | 23452.0 | 15474.4 | 8857.5 | 5544.2 |
| 72.5° | 8355.3 | 8365.0 | 10263.1 | 21606.5 | 28161.1 | 28178.6 | 21939.4 | 11487.5 | 4763.6 | 2129.7 |
| 75° | 5968.6 | 5910.2 | 6873.8 | 17522.3 | 24775.8 | 24974.4 | 16447.8 | 5388.5 | 1820.2 | 1006.4 |
| 77.5° | 3200.4 | 3264.6 | 3889.5 | 10391.5 | 17115.5 | 17454.2 | 8974.3 | 1553.5 | 926.6 | 685.2 |
| 80° | 988.9 | 1043.4 | 1594.4 | 4757.8 | 9694.6 | 9899.0 | 3326.9 | 691.1 | 646.3 | 488.6 |
| 82.5° | 311.5 | 323.2 | 743.6 | 1999.3 | 4023.9 | 4117.3 | 963.6 | 391.3 | 441.9 | 323.2 |
| 85° | 89.5 | 91.5 | 330.9 | 745.6 | 994.8 | 1014.2 | 270.6 | 151.8 | 253.1 | 200.5 |
| 87.5° | 9.7 | 31.1 | 124.6 | 124.6 | 87.6 | 85.7 | 29.2 | 33.1 | 72.0 | 25.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P941868
 CATALOG NUMBER: GALN-SB5C-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3850.6 | 0° | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 | 3850.6 |
| 3868.1 | 2.5° | 3858.4 | 3860.3 | 3835.0 | 3792.2 | 3745.5 | 3706.5 | 3657.9 | 3618.9 | 3591.7 | 3583.9 |
| 3903.2 | 5° | 3885.6 | 3872.0 | 3800.0 | 3669.5 | 3513.8 | 3379.5 | 3229.6 | 3110.8 | 3033.0 | 2999.9 |
| 3940.1 | 7.5° | 3926.5 | 3887.6 | 3729.9 | 3472.9 | 3175.1 | 2910.3 | 2641.7 | 2433.4 | 2301.0 | 2234.8 |
| 3975.2 | 10° | 3961.6 | 3883.7 | 3613.1 | 3188.7 | 2733.2 | 2332.2 | 1970.1 | 1718.9 | 1578.8 | 1512.6 |
| 4016.1 | 12.5° | 3994.7 | 3881.7 | 3461.3 | 2851.9 | 2234.8 | 1744.3 | 1407.5 | 1282.9 | 1243.9 | 1230.3 |
| 4082.3 | 15° | 4056.9 | 3887.6 | 3270.5 | 2466.5 | 1738.4 | 1317.9 | 1195.3 | 1193.3 | 1201.1 | 1197.2 |
| 4183.5 | 17.5° | 4142.6 | 3893.4 | 3054.4 | 2057.7 | 1341.3 | 1162.2 | 1156.3 | 1173.9 | 1185.5 | 1179.7 |
| 4310.0 | 20° | 4253.6 | 3916.8 | 2824.7 | 1652.8 | 1152.5 | 1123.3 | 1136.9 | 1152.5 | 1162.2 | 1152.5 |
| 4479.4 | 22.5° | 4409.3 | 3957.7 | 2573.6 | 1327.7 | 1092.1 | 1099.9 | 1111.6 | 1129.1 | 1138.8 | 1125.2 |
| 4695.5 | 25° | 4600.1 | 4021.9 | 2326.3 | 1154.4 | 1062.9 | 1072.6 | 1090.2 | 1109.6 | 1121.3 | 1107.7 |
| 4968.0 | 27.5° | 4847.3 | 4125.1 | 2098.6 | 1115.5 | 1033.7 | 1039.5 | 1064.9 | 1094.1 | 1109.6 | 1092.1 |
| 5355.4 | 30° | 5205.5 | 4294.4 | 1901.9 | 1133.0 | 1016.2 | 1002.6 | 1037.6 | 1078.5 | 1096.0 | 1080.4 |
| 5883.0 | 32.5° | 5680.5 | 4533.9 | 1781.2 | 1160.2 | 1008.4 | 959.7 | 992.8 | 1045.4 | 1074.6 | 1064.9 |
| 6572.1 | 35° | 6303.4 | 4897.9 | 1734.5 | 1191.4 | 1002.6 | 915.0 | 938.3 | 994.8 | 1045.4 | 1055.1 |
| 7440.3 | 37.5° | 7058.8 | 5404.1 | 1748.1 | 1205.0 | 985.0 | 878.0 | 889.6 | 938.3 | 1004.5 | 1035.7 |
| 8417.6 | 40° | 7917.3 | 5993.9 | 1826.0 | 1191.4 | 965.6 | 846.8 | 848.8 | 885.8 | 944.2 | 990.9 |
| 9468.8 | 42.5° | 8803.0 | 6683.1 | 1970.1 | 1140.8 | 948.0 | 819.6 | 813.7 | 839.0 | 878.0 | 911.1 |
| 10518.1 | 45° | 9646.0 | 7391.7 | 2112.2 | 1070.7 | 926.6 | 792.3 | 778.7 | 788.4 | 796.2 | 809.8 |
| 11540.1 | 47.5° | 10381.8 | 7890.0 | 2071.3 | 1006.4 | 897.4 | 761.2 | 737.8 | 733.9 | 710.5 | 708.6 |
| 12453.1 | 50° | 10889.9 | 7999.0 | 1839.6 | 942.2 | 854.6 | 726.1 | 689.1 | 665.8 | 624.9 | 605.4 |
| 13136.4 | 52.5° | 11051.5 | 7568.8 | 1502.9 | 878.0 | 784.5 | 679.4 | 626.8 | 589.9 | 539.2 | 521.7 |
| 13529.6 | 55° | 10837.3 | 6725.9 | 1201.1 | 800.1 | 687.2 | 617.1 | 558.7 | 510.0 | 469.2 | 447.7 |
| 13572.5 | 57.5° | 10313.7 | 5653.2 | 950.0 | 708.6 | 584.0 | 547.0 | 488.6 | 440.0 | 404.9 | 383.5 |
| 13097.5 | 60° | 9445.4 | 4489.1 | 751.4 | 599.6 | 498.4 | 471.1 | 410.8 | 379.6 | 348.5 | 323.2 |
| 11871.0 | 62.5° | 8127.5 | 3204.3 | 589.9 | 475.0 | 416.6 | 385.4 | 350.4 | 327.0 | 290.1 | 255.0 |
| 9665.4 | 65° | 6342.4 | 1960.3 | 455.5 | 348.5 | 334.8 | 319.3 | 297.8 | 276.4 | 231.7 | 196.6 |
| 6305.4 | 67.5° | 4000.5 | 928.6 | 325.1 | 262.8 | 264.8 | 257.0 | 247.2 | 229.7 | 196.6 | 165.5 |
| 2824.7 | 70° | 1761.8 | 449.7 | 214.1 | 200.5 | 196.6 | 196.6 | 204.4 | 198.6 | 167.4 | 138.2 |
| 981.1 | 72.5° | 599.6 | 241.4 | 159.6 | 151.8 | 142.1 | 140.2 | 171.3 | 165.5 | 134.3 | 107.1 |
| 488.6 | 75° | 313.4 | 161.6 | 116.8 | 109.0 | 85.7 | 103.2 | 136.3 | 128.5 | 95.4 | 70.1 |
| 323.2 | 77.5° | 204.4 | 114.9 | 79.8 | 70.1 | 48.7 | 68.1 | 101.2 | 89.5 | 56.5 | 35.0 |
| 212.2 | 80° | 128.5 | 75.9 | 46.7 | 33.1 | 23.4 | 37.0 | 54.5 | 38.9 | 21.4 | 7.8 |
| 124.6 | 82.5° | 68.1 | 38.9 | 17.5 | 11.7 | 9.7 | 11.7 | 13.6 | 9.7 | 3.9 | 0.0 |
| 64.2 | 85° | 27.3 | 13.6 | 5.8 | 3.9 | 1.9 | 0.0 | 3.9 | 1.9 | 0.0 | 0.0 |
| 11.7 | 87.5° | 9.7 | 1.9 | 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> |
| 3850.6 |
| 3597.5 |
| 3011.6 |
| 2244.6 |
| 1514.5 |
| 1226.4 |
| 1195.3 |
| 1177.8 |
| 1150.5 |
| 1123.3 |
| 1105.7 |
| 1092.1 |
| 1078.5 |
| 1064.9 |
| 1055.1 |
| 1043.4 |
| 1006.4 |
| 924.7 |
| 817.6 |
| 706.7 |
| 607.4 |
| 519.8 |
| 447.7 |
| 379.6 |
| 317.3 |
| 249.2 |
| 190.8 |
| 161.6 |
| 132.4 |
| 101.2 |
| 64.2 |
| 31.1 |
| 5.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)