

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: P951587

Luminaire Tested: **GALN-SB5C-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27781 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

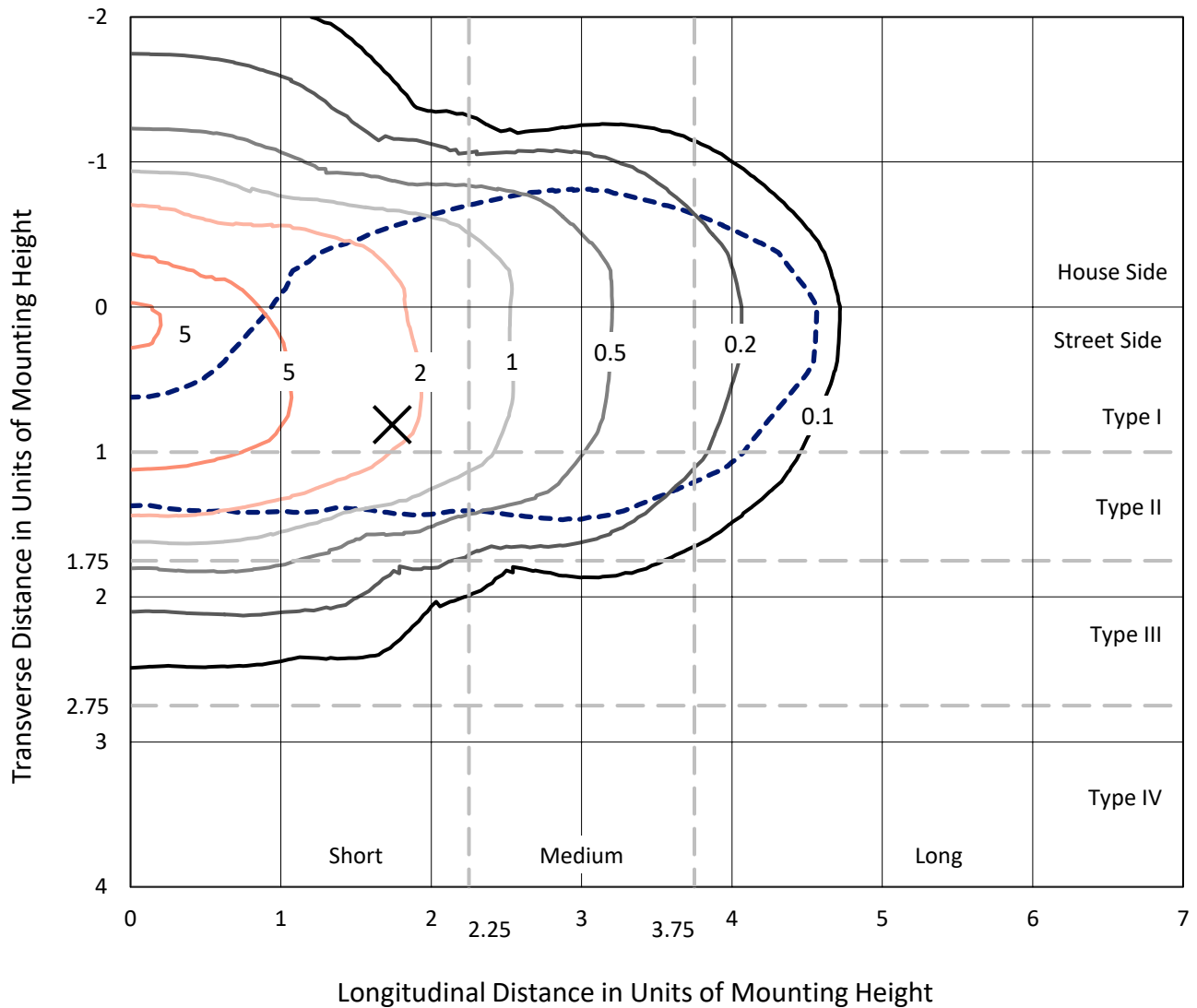
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951587
 CATALOG NUMBER: GALN-SB5C-940-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

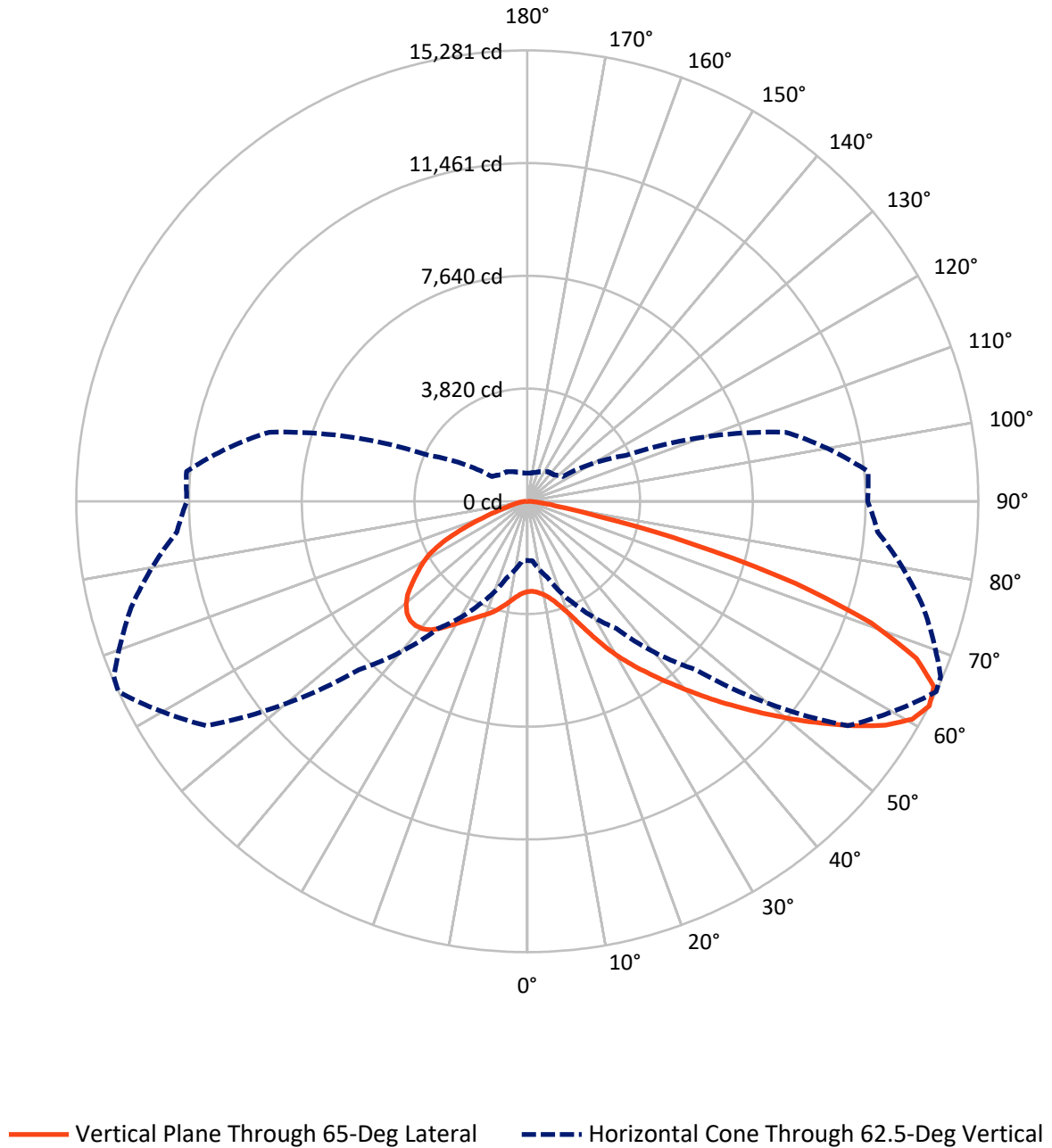
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P951587
CATALOG NUMBER: GALN-SB5C-940-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P951587
 CATALOG NUMBER: GALN-SB5C-940-U-T2U

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8766.5 | 0.0 | 8766.5 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 19014.5 | 0.0 | 19014.5 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 27781.0 | 0.0 | 27781.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 305.2 | 1.1 |
| 10°-20° | 1035.0 | 3.7 |
| 20°-30° | 2098.6 | 7.6 |
| 30°-40° | 3631.6 | 13.1 |
| 40°-50° | 5495.7 | 19.8 |
| 50°-60° | 6443.3 | 23.2 |
| 60°-70° | 5401.9 | 19.4 |
| 70°-80° | 2982.3 | 10.7 |
| 80°-90° | 387.4 | 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° | 27781.0 | 100.0 |
| 0°-180° | 27781.0 | 100.0 |



REPORT NUMBER: P951587

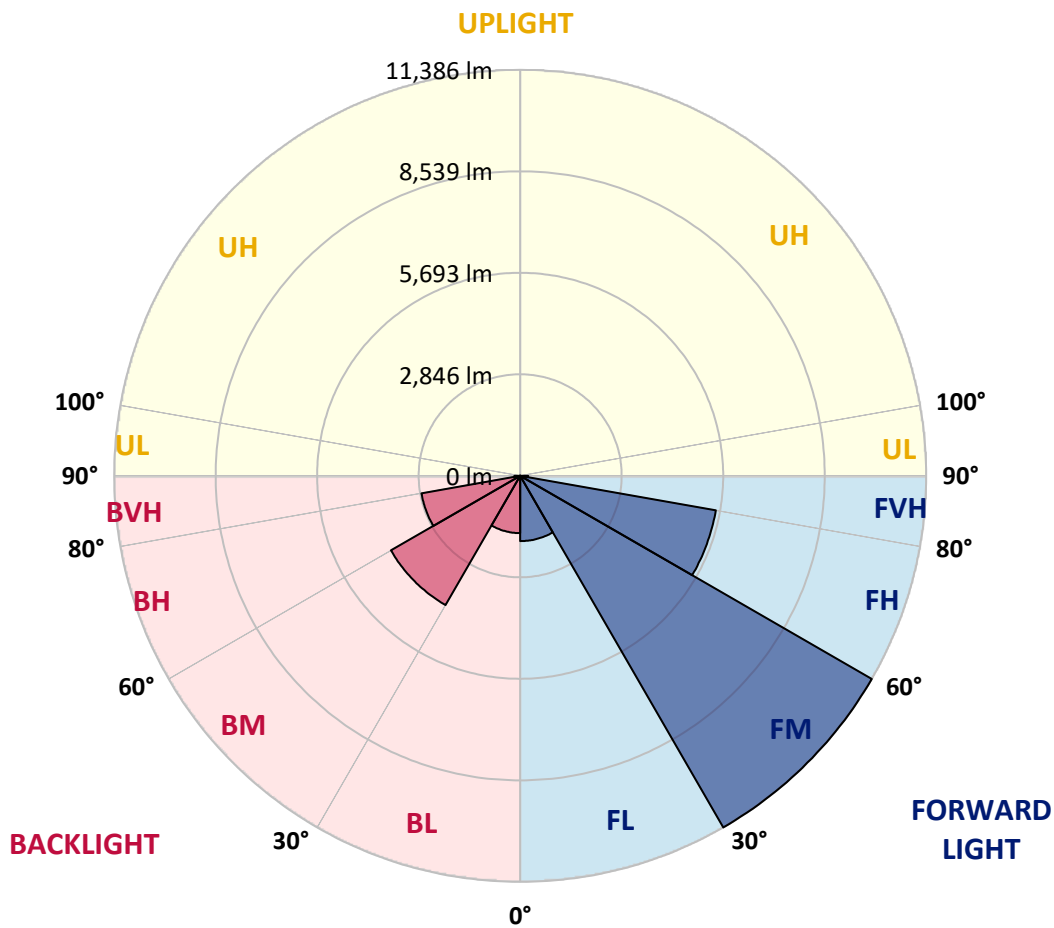
CATALOG NUMBER: GALN-SB5C-940-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1831.1 | 6.6 | | | |
| FM (30°-60°) | 11385.6 | 41.0 | | | |
| FH (60°-80°) | 5572.0 | 20.1 | | | G3/7500 |
| FVH (80°-90°) | 225.8 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1607.7 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4185.0 | 15.1 | B3/5000 | | |
| BH (60°-80°) | 2812.2 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 161.6 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P951587
 CATALOG NUMBER: GALN-SB5C-940-U-T2U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 |
| 2.5° | 3041.2 | 3032.5 | 3039.7 | 3039.7 | 3042.6 | 3041.2 | 3051.3 | 3054.1 | 3058.5 | 3067.1 |
| 5° | 3010.9 | 3009.5 | 3022.4 | 3034.0 | 3045.5 | 3055.6 | 3068.6 | 3087.3 | 3090.2 | 3100.3 |
| 7.5° | 3000.8 | 2992.2 | 3012.3 | 3026.8 | 3054.1 | 3078.6 | 3113.2 | 3144.9 | 3157.9 | 3162.2 |
| 10° | 3078.6 | 3064.2 | 3083.0 | 3091.6 | 3114.7 | 3139.2 | 3179.5 | 3230.0 | 3244.4 | 3261.7 |
| 12.5° | 3211.2 | 3195.4 | 3222.8 | 3235.7 | 3257.4 | 3279.0 | 3306.4 | 3355.4 | 3362.6 | 3394.3 |
| 15° | 3392.8 | 3374.1 | 3391.4 | 3407.3 | 3443.3 | 3463.5 | 3490.9 | 3538.4 | 3538.4 | 3562.9 |
| 17.5° | 3639.3 | 3614.8 | 3627.8 | 3633.5 | 3656.6 | 3686.9 | 3733.0 | 3774.8 | 3796.4 | 3787.8 |
| 20° | 4006.8 | 3976.6 | 3976.6 | 3947.8 | 3939.1 | 3963.6 | 4024.1 | 4081.8 | 4104.9 | 4060.2 |
| 22.5° | 4558.9 | 4515.6 | 4491.1 | 4393.1 | 4354.2 | 4357.1 | 4417.6 | 4488.2 | 4507.0 | 4427.7 |
| 25° | 5260.8 | 5193.0 | 5159.9 | 5015.8 | 4927.8 | 4851.5 | 4899.0 | 4989.8 | 5015.8 | 4917.8 |
| 27.5° | 5962.7 | 5967.0 | 5935.3 | 5762.4 | 5616.8 | 5477.0 | 5452.5 | 5547.6 | 5575.0 | 5464.0 |
| 30° | 6947.1 | 6844.8 | 6784.3 | 6576.7 | 6369.2 | 6173.1 | 6072.2 | 6111.2 | 6118.4 | 5985.8 |
| 32.5° | 7796.1 | 7770.1 | 7640.4 | 7458.8 | 7192.1 | 6885.1 | 6716.5 | 6654.5 | 6643.0 | 6454.2 |
| 35° | 8763.2 | 8748.8 | 8611.8 | 8395.6 | 8107.4 | 7680.7 | 7376.6 | 7199.4 | 7184.9 | 6919.7 |
| 37.5° | 9746.1 | 9746.1 | 9612.1 | 9375.7 | 9077.4 | 8544.1 | 8081.4 | 7800.4 | 7754.3 | 7408.3 |
| 40° | 10530.2 | 10482.7 | 10507.2 | 10407.7 | 10066.1 | 9499.7 | 8864.1 | 8456.2 | 8394.2 | 7979.1 |
| 42.5° | 10975.6 | 10959.7 | 11106.7 | 11217.7 | 11077.9 | 10625.3 | 9726.0 | 9166.7 | 9080.3 | 8607.5 |
| 45° | 11075.0 | 11057.7 | 11320.1 | 11726.5 | 11922.5 | 11736.6 | 10662.8 | 9914.8 | 9809.6 | 9264.8 |
| 47.5° | 10845.9 | 10811.3 | 11196.1 | 11837.5 | 12465.9 | 12793.1 | 11677.5 | 10726.2 | 10573.5 | 9904.7 |
| 50° | 10156.9 | 10123.8 | 10706.1 | 11557.9 | 12649.0 | 13510.9 | 12778.7 | 11586.7 | 11353.2 | 10590.8 |
| 52.5° | 8659.4 | 8675.3 | 9587.6 | 10757.9 | 12408.3 | 13957.7 | 13727.1 | 12493.3 | 12212.2 | 11292.7 |
| 55° | 6745.3 | 6779.9 | 7901.3 | 9189.8 | 11445.5 | 13889.9 | 14374.2 | 13427.3 | 13147.6 | 11952.8 |
| 57.5° | 4829.8 | 4982.6 | 6033.3 | 7308.9 | 9596.3 | 12816.1 | 14515.4 | 14315.1 | 14044.1 | 12673.5 |
| 60° | 3130.5 | 3157.9 | 4238.9 | 5524.5 | 7307.4 | 10907.8 | 14228.6 | 14988.2 | 14776.3 | 13408.5 |
| 62.5° | 2006.3 | 2025.0 | 2683.7 | 3864.2 | 5259.3 | 8069.9 | 13262.9 | 15280.8 | 15215.9 | 13894.2 |
| 65° | 1474.5 | 1460.0 | 1803.1 | 2554.0 | 3542.7 | 4976.8 | 11387.8 | 15139.5 | 15267.8 | 14198.4 |
| 67.5° | 1230.9 | 1210.7 | 1379.3 | 1768.5 | 2610.2 | 2826.4 | 8425.9 | 14221.4 | 14691.3 | 14163.8 |
| 70° | 1121.3 | 1104.0 | 1206.4 | 1313.0 | 2036.6 | 1892.4 | 4247.5 | 12363.6 | 13087.1 | 13770.3 |
| 72.5° | 949.8 | 919.6 | 1059.4 | 1166.0 | 1584.0 | 1451.4 | 1755.5 | 9496.8 | 10378.9 | 12509.1 |
| 75° | 736.5 | 716.3 | 836.0 | 1026.2 | 1190.5 | 1132.9 | 1109.8 | 5766.7 | 6729.5 | 9674.1 |
| 77.5° | 583.7 | 556.3 | 665.9 | 799.9 | 1070.9 | 854.7 | 808.6 | 2483.4 | 3437.5 | 6176.0 |
| 80° | 439.6 | 415.1 | 505.9 | 632.7 | 823.0 | 644.3 | 523.2 | 1013.2 | 1295.7 | 3129.1 |
| 82.5° | 312.8 | 291.1 | 353.1 | 464.1 | 553.5 | 578.0 | 321.4 | 567.9 | 638.5 | 1206.4 |
| 85° | 200.3 | 187.4 | 236.4 | 291.1 | 351.7 | 371.9 | 196.0 | 296.9 | 325.7 | 497.3 |
| 87.5° | 109.5 | 89.4 | 126.8 | 135.5 | 162.9 | 148.5 | 93.7 | 108.1 | 116.7 | 180.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951587
 CATALOG NUMBER: GALN-SB5C-940-U-T2U

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3061.3 | 0° | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 | 3061.3 |
| 3067.1 | 2.5° | 3072.9 | 3077.2 | 3091.6 | 3095.9 | 3106.0 | 3119.0 | 3127.6 | 3136.3 | 3136.3 | 3144.9 |
| 3113.2 | 5° | 3114.7 | 3124.8 | 3155.0 | 3170.9 | 3196.8 | 3222.8 | 3238.6 | 3257.4 | 3268.9 | 3274.7 |
| 3186.7 | 7.5° | 3195.4 | 3211.2 | 3254.5 | 3281.9 | 3326.5 | 3362.6 | 3387.1 | 3413.0 | 3418.8 | 3434.6 |
| 3289.1 | 10° | 3304.9 | 3323.7 | 3372.7 | 3424.6 | 3477.9 | 3522.6 | 3545.6 | 3564.4 | 3571.6 | 3574.5 |
| 3420.2 | 12.5° | 3430.3 | 3457.7 | 3521.1 | 3584.5 | 3640.8 | 3679.7 | 3685.4 | 3681.1 | 3660.9 | 3643.6 |
| 3581.7 | 15° | 3584.5 | 3609.0 | 3679.7 | 3748.9 | 3803.6 | 3810.8 | 3774.8 | 3751.7 | 3727.2 | 3722.9 |
| 3761.8 | 17.5° | 3769.0 | 3782.0 | 3846.9 | 3914.6 | 3918.9 | 3894.4 | 3841.1 | 3819.5 | 3796.4 | 3780.6 |
| 3996.8 | 20° | 3983.8 | 3979.5 | 4025.6 | 4054.4 | 4024.1 | 3949.2 | 3868.5 | 3832.4 | 3809.4 | 3790.6 |
| 4285.0 | 22.5° | 4240.3 | 4207.2 | 4201.4 | 4194.2 | 4113.5 | 3956.4 | 3846.9 | 3800.7 | 3764.7 | 3738.8 |
| 4687.1 | 25° | 4613.6 | 4486.8 | 4398.9 | 4349.9 | 4168.3 | 3917.5 | 3777.7 | 3675.3 | 3607.6 | 3562.9 |
| 5178.6 | 27.5° | 5080.6 | 4867.3 | 4645.3 | 4525.7 | 4168.3 | 3838.2 | 3610.5 | 3444.7 | 3333.8 | 3287.6 |
| 5654.3 | 30° | 5526.0 | 5302.6 | 4975.4 | 4737.6 | 4158.2 | 3708.5 | 3341.0 | 3110.4 | 2980.6 | 2934.5 |
| 6060.7 | 32.5° | 5906.5 | 5662.9 | 5325.6 | 4969.6 | 4133.7 | 3498.1 | 3006.6 | 2751.5 | 2626.1 | 2571.3 |
| 6462.8 | 35° | 6259.6 | 6000.2 | 5677.3 | 5224.8 | 4068.8 | 3189.6 | 2639.0 | 2444.5 | 2304.7 | 2216.7 |
| 6872.2 | 37.5° | 6621.4 | 6312.9 | 6010.3 | 5455.4 | 3952.1 | 2829.3 | 2356.5 | 2190.8 | 2026.5 | 1908.3 |
| 7307.4 | 40° | 7014.9 | 6645.9 | 6366.3 | 5592.3 | 3760.4 | 2486.3 | 2137.5 | 1986.1 | 1811.7 | 1686.3 |
| 7809.0 | 42.5° | 7474.6 | 7045.1 | 6762.6 | 5662.9 | 3498.1 | 2242.7 | 1994.8 | 1846.3 | 1682.0 | 1579.7 |
| 8346.6 | 45° | 7954.6 | 7484.7 | 7124.4 | 5661.5 | 3205.5 | 2128.8 | 1948.7 | 1801.6 | 1620.0 | 1513.4 |
| 8898.7 | 47.5° | 8457.6 | 7944.5 | 7437.2 | 5569.2 | 2951.8 | 2144.7 | 1922.7 | 1705.1 | 1504.7 | 1401.0 |
| 9456.4 | 50° | 8962.1 | 8447.5 | 7739.8 | 5396.3 | 2843.7 | 2110.1 | 1826.1 | 1569.6 | 1333.2 | 1239.5 |
| 9979.6 | 52.5° | 9462.2 | 8982.3 | 8000.7 | 5149.8 | 2734.2 | 1981.8 | 1702.2 | 1393.7 | 1262.6 | 1197.7 |
| 10520.1 | 55° | 9965.2 | 9511.2 | 8284.7 | 4790.9 | 2460.3 | 1831.9 | 1494.6 | 1327.4 | 1206.4 | 1147.3 |
| 11049.1 | 57.5° | 10469.7 | 10122.3 | 8554.2 | 4432.0 | 2115.8 | 1647.4 | 1380.8 | 1246.7 | 1150.2 | 1099.7 |
| 11491.6 | 60° | 10994.3 | 10821.4 | 8832.4 | 4102.0 | 1775.7 | 1411.0 | 1297.2 | 1181.9 | 1083.9 | 1027.7 |
| 11916.8 | 62.5° | 11534.8 | 11591.0 | 9050.0 | 3676.8 | 1462.9 | 1266.9 | 1222.2 | 1104.0 | 1008.9 | 955.6 |
| 12268.4 | 65° | 12079.6 | 12333.3 | 9192.7 | 3087.3 | 1186.2 | 1130.0 | 1141.5 | 1019.0 | 922.4 | 876.3 |
| 12526.4 | 67.5° | 12490.4 | 12868.0 | 9152.3 | 2336.4 | 972.9 | 1000.3 | 1040.6 | 929.6 | 838.8 | 802.8 |
| 12484.6 | 70° | 12536.5 | 12804.6 | 8754.5 | 1599.9 | 814.3 | 873.4 | 928.2 | 841.7 | 748.0 | 722.1 |
| 11896.6 | 72.5° | 11922.5 | 11939.8 | 7646.2 | 1045.0 | 688.9 | 766.8 | 810.0 | 752.4 | 661.6 | 635.6 |
| 10407.7 | 75° | 10312.6 | 9874.4 | 5613.9 | 688.9 | 576.5 | 658.7 | 699.0 | 658.7 | 570.8 | 576.5 |
| 7787.4 | 77.5° | 7813.3 | 6993.2 | 3408.7 | 490.0 | 481.4 | 553.5 | 608.2 | 579.4 | 504.5 | 566.4 |
| 3916.0 | 80° | 4025.6 | 3783.4 | 1520.6 | 366.1 | 380.5 | 442.5 | 500.1 | 462.7 | 399.2 | 380.5 |
| 874.9 | 82.5° | 922.4 | 1072.3 | 599.6 | 262.3 | 275.3 | 318.5 | 381.9 | 347.4 | 286.8 | 242.1 |
| 364.7 | 85° | 322.9 | 353.1 | 265.2 | 164.3 | 161.4 | 198.9 | 259.4 | 232.1 | 194.6 | 155.7 |
| 154.2 | 87.5° | 102.3 | 134.0 | 99.5 | 66.3 | 69.2 | 89.4 | 119.6 | 109.5 | 90.8 | 59.1 |
| 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> |
|-------------|
| 3061.3 |
| 3144.9 |
| 3277.5 |
| 3428.9 |
| 3567.2 |
| 3643.6 |
| 3722.9 |
| 3782.0 |
| 3792.1 |
| 3747.4 |
| 3580.2 |
| 3310.7 |
| 2961.9 |
| 2598.7 |
| 2245.6 |
| 1940.0 |
| 1710.8 |
| 1599.9 |
| 1530.7 |
| 1415.4 |
| 1245.3 |
| 1197.7 |
| 1141.5 |
| 1091.1 |
| 1023.3 |
| 954.1 |
| 874.9 |
| 804.3 |
| 723.5 |
| 634.2 |
| 556.3 |
| 498.7 |
| 347.4 |
| 239.3 |
| 164.3 |
| 62.0 |
| 0.0 |

F REPORT)