

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: P948462

Luminaire Tested: **GALN-SB3C-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-730-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22426 lumens
Efficiency: N/A
Efficacy: 150.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

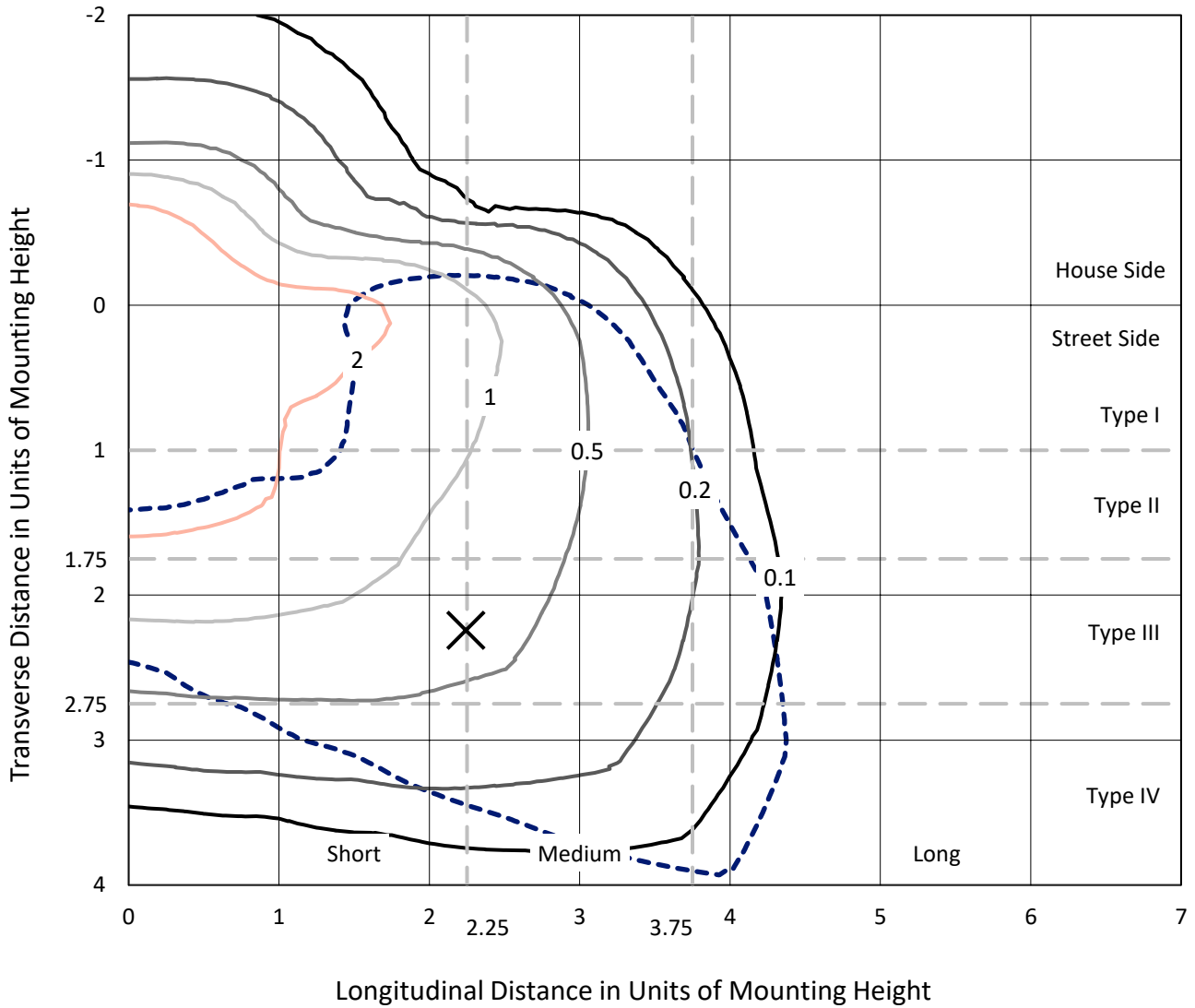
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948462
 CATALOG NUMBER: GALN-SB3C-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

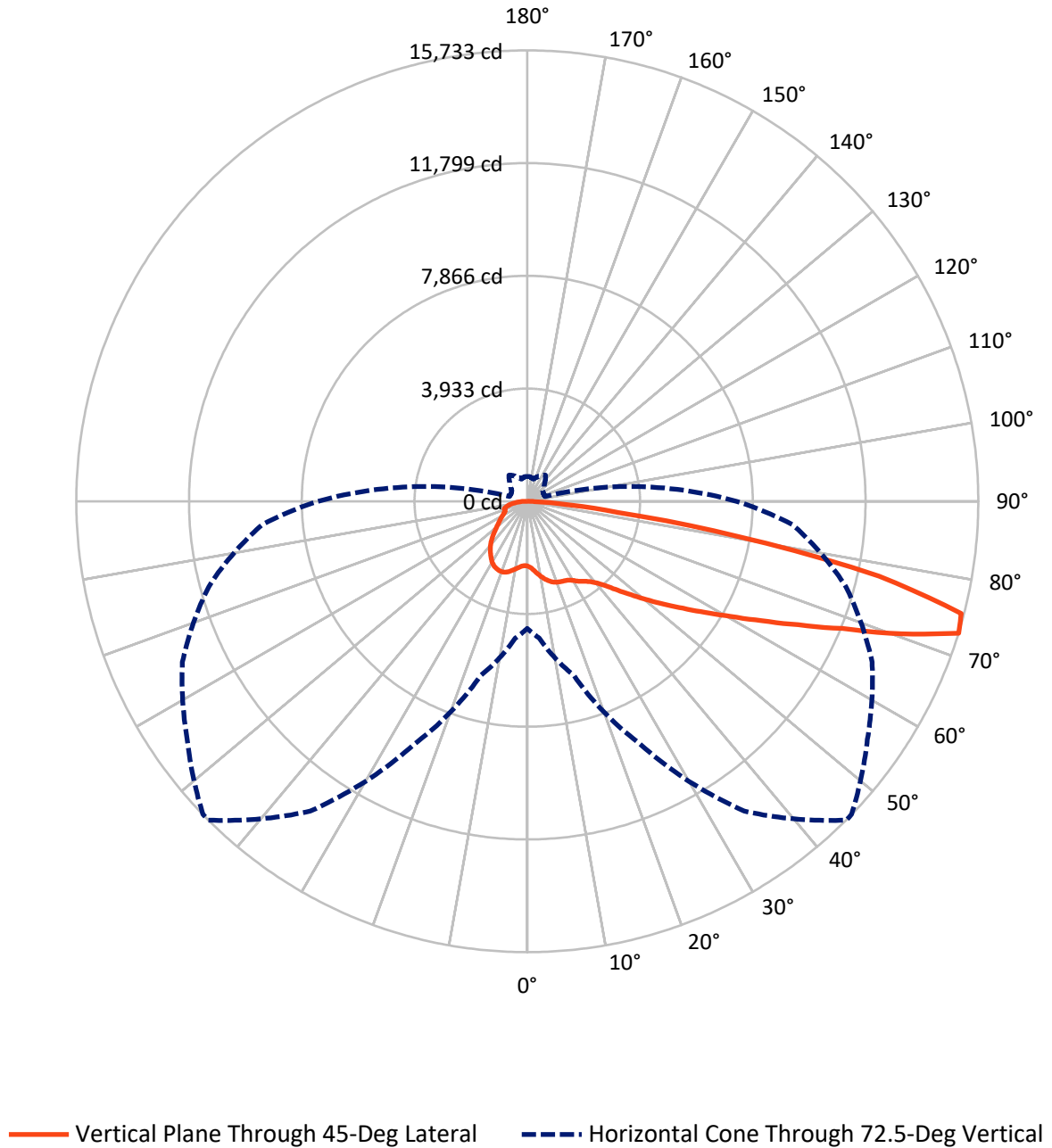
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P948462
CATALOG NUMBER: GALN-SB3C-730-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P948462
 CATALOG NUMBER: GALN-SB3C-730-U-T4W

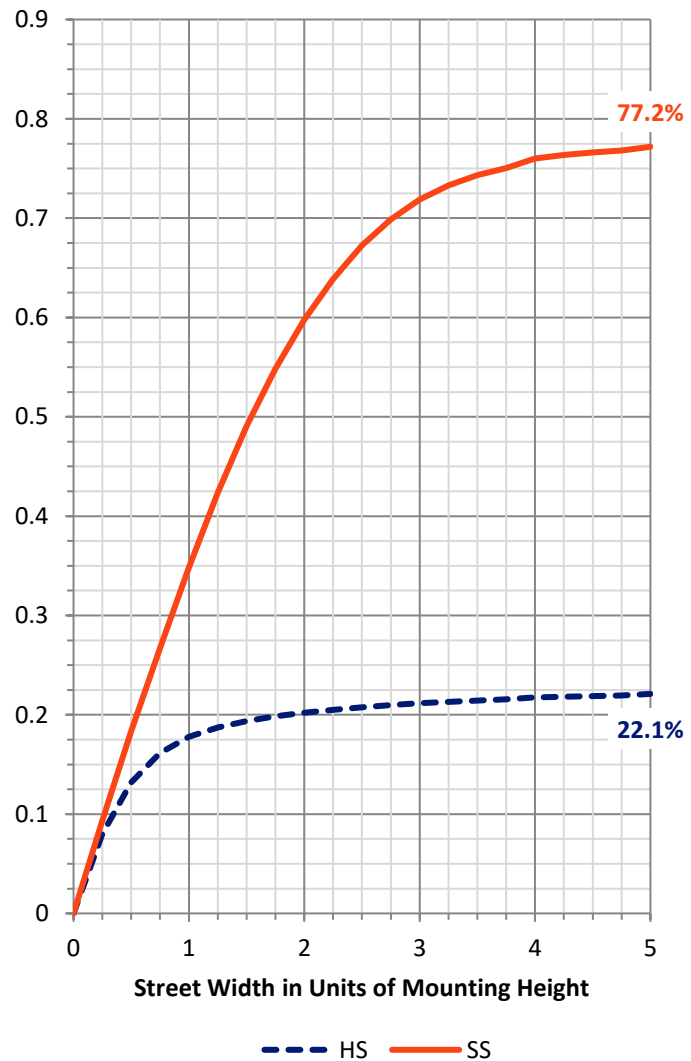
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5069.8 | 0.0 | 5069.8 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 17356.2 | 0.0 | 17356.2 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 22426.0 | 0.0 | 22426.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 230.3 | 1.0 |
| 10°-20° | 767.7 | 3.4 |
| 20°-30° | 1335.5 | 6.0 |
| 30°-40° | 1914.5 | 8.5 |
| 40°-50° | 2695.7 | 12.0 |
| 50°-60° | 4129.1 | 18.4 |
| 60°-70° | 5981.6 | 26.7 |
| 70°-80° | 4776.7 | 21.3 |
| 80°-90° | 594.9 | 2.7 |
| 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° | 22426.0 | 100.0 |
| 0°-180° | 22426.0 | 100.0 |



REPORT NUMBER: P948462

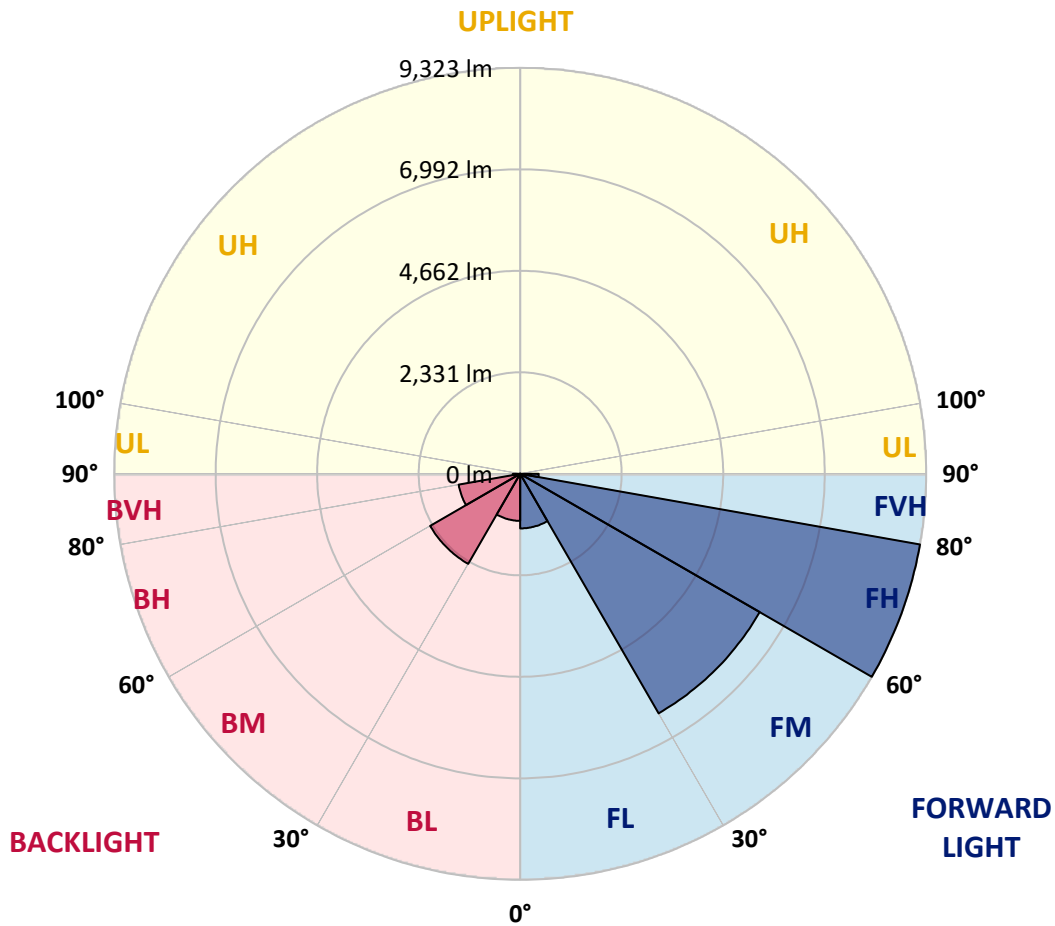
CATALOG NUMBER: GALN-SB3C-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1254.1 | 5.6 | | | |
| FM (30°-60°) | 6352.2 | 28.3 | | | |
| FH (60°-80°) | 9323.1 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 426.8 | 1.9 | | | G3/500 |
| BL (0°-30°) | 1079.4 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2387.1 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1435.1 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 168.1 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P948462

CATALOG NUMBER: GALN-SB3C-730-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 |
| 2.5° | 2351.0 | 2366.3 | 2352.1 | 2339.1 | 2333.2 | 2317.9 | 2316.7 | 2307.2 | 2301.3 | 2284.8 | 2280.1 |
| 5° | 2515.2 | 2535.2 | 2511.6 | 2485.6 | 2462.0 | 2424.2 | 2419.5 | 2392.3 | 2361.6 | 2326.1 | 2306.1 |
| 7.5° | 2700.6 | 2718.4 | 2691.2 | 2652.2 | 2610.9 | 2548.2 | 2547.1 | 2497.4 | 2449.0 | 2388.8 | 2354.5 |
| 10° | 2862.5 | 2886.1 | 2849.5 | 2796.3 | 2744.4 | 2673.5 | 2665.2 | 2608.5 | 2547.1 | 2469.1 | 2417.1 |
| 12.5° | 3005.4 | 3022.0 | 2986.5 | 2921.6 | 2861.3 | 2790.4 | 2779.8 | 2717.2 | 2648.7 | 2560.1 | 2493.9 |
| 15° | 3118.8 | 3140.1 | 3092.9 | 3023.2 | 2959.4 | 2889.7 | 2880.2 | 2823.5 | 2755.0 | 2661.7 | 2576.6 |
| 17.5° | 3193.3 | 3211.0 | 3162.6 | 3084.6 | 3023.2 | 2965.3 | 2958.2 | 2910.9 | 2850.7 | 2756.2 | 2665.2 |
| 20° | 3221.6 | 3240.5 | 3189.7 | 3110.6 | 3053.9 | 3009.0 | 3005.4 | 2971.2 | 2929.8 | 2843.6 | 2751.4 |
| 22.5° | 3250.0 | 3267.7 | 3201.5 | 3118.8 | 3069.2 | 3040.9 | 3039.7 | 3017.3 | 3000.7 | 2929.8 | 2840.0 |
| 25° | 3364.6 | 3369.3 | 3280.7 | 3161.4 | 3090.5 | 3065.7 | 3064.5 | 3063.3 | 3070.4 | 3014.9 | 2935.7 |
| 27.5° | 3463.8 | 3462.6 | 3387.0 | 3274.8 | 3164.9 | 3112.9 | 3111.8 | 3123.6 | 3146.0 | 3099.9 | 3035.0 |
| 30° | 3609.1 | 3596.1 | 3506.3 | 3389.4 | 3289.0 | 3208.6 | 3201.5 | 3190.9 | 3208.6 | 3172.0 | 3134.2 |
| 32.5° | 3917.5 | 3876.1 | 3730.8 | 3522.9 | 3391.7 | 3330.3 | 3320.9 | 3254.7 | 3261.8 | 3239.3 | 3220.4 |
| 35° | 4359.3 | 4305.0 | 4111.2 | 3775.7 | 3519.3 | 3431.9 | 3427.2 | 3343.3 | 3329.1 | 3309.1 | 3316.1 |
| 37.5° | 4885.0 | 4817.7 | 4592.0 | 4141.9 | 3739.1 | 3550.1 | 3543.0 | 3467.4 | 3409.5 | 3388.2 | 3428.4 |
| 40° | 5413.1 | 5328.0 | 5141.4 | 4588.5 | 4062.8 | 3747.3 | 3724.9 | 3610.3 | 3544.1 | 3508.7 | 3593.8 |
| 42.5° | 5925.8 | 5854.9 | 5695.4 | 5089.4 | 4462.1 | 4035.6 | 3986.0 | 3789.9 | 3740.3 | 3707.2 | 3860.8 |
| 45° | 6379.5 | 6315.7 | 6198.7 | 5624.6 | 4929.9 | 4427.8 | 4379.4 | 4059.2 | 4043.9 | 4043.9 | 4266.0 |
| 47.5° | 6748.1 | 6733.9 | 6609.8 | 6170.4 | 5481.6 | 4874.4 | 4790.5 | 4433.7 | 4475.1 | 4538.9 | 4841.3 |
| 50° | 7156.8 | 7117.8 | 6985.5 | 6707.9 | 6130.2 | 5385.9 | 5317.4 | 4893.3 | 5048.0 | 5222.9 | 5673.0 |
| 52.5° | 7532.5 | 7553.8 | 7406.1 | 7267.9 | 6862.6 | 5956.5 | 5836.0 | 5435.5 | 5769.9 | 6059.3 | 6647.6 |
| 55° | 7918.8 | 7920.0 | 7878.6 | 7859.7 | 7630.5 | 6587.4 | 6455.1 | 6087.7 | 6619.3 | 6978.4 | 7784.1 |
| 57.5° | 8281.5 | 8283.9 | 8345.3 | 8511.9 | 8521.3 | 7315.1 | 7165.1 | 6888.6 | 7563.2 | 7929.4 | 8956.1 |
| 60° | 8605.2 | 8621.7 | 8789.5 | 9179.3 | 9304.6 | 8149.2 | 8007.4 | 7834.9 | 8539.0 | 8907.6 | 10188.2 |
| 62.5° | 8713.9 | 8774.1 | 9147.4 | 9701.5 | 10078.4 | 9172.3 | 9032.8 | 8930.1 | 9564.5 | 9907.1 | 11218.4 |
| 65° | 8529.6 | 8667.8 | 9389.6 | 10132.7 | 10874.6 | 10387.9 | 10249.7 | 10137.4 | 10630.1 | 10952.6 | 12064.3 |
| 67.5° | 8077.1 | 8255.5 | 9375.4 | 10585.2 | 11841.0 | 11850.4 | 11721.7 | 11458.2 | 11772.5 | 11896.5 | 12339.5 |
| 70° | 6885.1 | 7152.1 | 8549.7 | 10754.1 | 12950.3 | 13850.5 | 13726.5 | 13048.4 | 12912.5 | 12312.4 | 11564.6 |
| 72.5° | 4436.1 | 4795.2 | 6295.6 | 9363.6 | 13197.2 | 15732.5 | 15725.4 | 14483.7 | 13272.8 | 11504.3 | 9275.0 |
| 75° | 1618.5 | 1838.2 | 2925.1 | 5877.4 | 11077.8 | 15636.8 | 15682.8 | 14238.0 | 12116.3 | 8886.4 | 5778.1 |
| 77.5° | 589.5 | 645.0 | 954.6 | 2258.8 | 6813.0 | 12546.3 | 12642.0 | 11382.6 | 8624.1 | 4459.7 | 2289.5 |
| 80° | 309.5 | 340.2 | 489.1 | 876.6 | 2919.2 | 7451.0 | 7601.0 | 6764.6 | 4053.3 | 1343.2 | 686.4 |
| 82.5° | 171.3 | 185.5 | 274.1 | 476.1 | 1314.9 | 3186.2 | 3276.0 | 2672.3 | 1425.9 | 569.4 | 283.5 |
| 85° | 92.1 | 98.1 | 128.8 | 259.9 | 642.7 | 1104.6 | 1129.4 | 798.6 | 568.2 | 334.3 | 137.0 |
| 87.5° | 27.2 | 33.1 | 42.5 | 82.7 | 251.6 | 248.1 | 254.0 | 158.3 | 224.5 | 168.9 | 44.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P948462
 CATALOG NUMBER: GALN-SB3C-730-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 | 2262.3 |
| 2.5° | 2273.0 | 2269.4 | 2256.4 | 2250.5 | 2243.4 | 2242.3 | 2248.2 | 2249.4 | 2250.5 | 2251.7 | 2256.4 |
| 5° | 2294.2 | 2282.4 | 2270.6 | 2263.5 | 2265.9 | 2267.1 | 2278.9 | 2287.2 | 2293.1 | 2297.8 | 2300.2 |
| 7.5° | 2335.6 | 2326.1 | 2306.1 | 2304.9 | 2308.4 | 2319.1 | 2334.4 | 2353.3 | 2363.9 | 2372.2 | 2374.6 |
| 10° | 2397.0 | 2379.3 | 2355.7 | 2359.2 | 2366.3 | 2381.7 | 2413.6 | 2428.9 | 2446.6 | 2462.0 | 2458.5 |
| 12.5° | 2459.6 | 2444.3 | 2417.1 | 2419.5 | 2431.3 | 2458.5 | 2489.2 | 2508.1 | 2519.9 | 2531.7 | 2536.4 |
| 15° | 2541.2 | 2514.0 | 2484.4 | 2484.4 | 2505.7 | 2535.2 | 2549.4 | 2564.8 | 2571.9 | 2584.9 | 2589.6 |
| 17.5° | 2625.0 | 2589.6 | 2550.6 | 2548.2 | 2574.2 | 2588.4 | 2596.7 | 2599.0 | 2601.4 | 2615.6 | 2620.3 |
| 20° | 2708.9 | 2669.9 | 2614.4 | 2609.7 | 2615.6 | 2613.2 | 2612.0 | 2609.7 | 2613.2 | 2630.9 | 2638.0 |
| 22.5° | 2791.6 | 2746.7 | 2669.9 | 2648.7 | 2632.1 | 2609.7 | 2608.5 | 2607.3 | 2609.7 | 2627.4 | 2639.2 |
| 25° | 2888.5 | 2834.1 | 2731.4 | 2667.6 | 2612.0 | 2581.3 | 2584.9 | 2586.0 | 2588.4 | 2602.6 | 2621.5 |
| 27.5° | 2993.6 | 2933.4 | 2788.1 | 2661.7 | 2561.2 | 2540.0 | 2534.1 | 2537.6 | 2545.9 | 2568.3 | 2590.8 |
| 30° | 3098.8 | 3027.9 | 2840.0 | 2638.0 | 2497.4 | 2467.9 | 2449.0 | 2457.3 | 2483.3 | 2505.7 | 2530.5 |
| 32.5° | 3194.5 | 3123.6 | 2881.4 | 2586.0 | 2415.9 | 2369.9 | 2345.0 | 2355.7 | 2381.7 | 2389.9 | 2419.5 |
| 35° | 3306.7 | 3226.4 | 2899.1 | 2503.3 | 2327.3 | 2256.4 | 2223.4 | 2208.0 | 2221.0 | 2212.7 | 2238.7 |
| 37.5° | 3431.9 | 3348.0 | 2896.7 | 2394.7 | 2223.4 | 2141.8 | 2095.8 | 2037.9 | 2010.7 | 1982.4 | 2000.1 |
| 40° | 3617.4 | 3496.9 | 2868.4 | 2263.5 | 2094.6 | 2020.2 | 1937.5 | 1839.4 | 1778.0 | 1722.5 | 1726.0 |
| 42.5° | 3870.2 | 3703.6 | 2816.4 | 2119.4 | 1949.3 | 1879.6 | 1767.3 | 1652.8 | 1555.9 | 1463.7 | 1455.5 |
| 45° | 4247.1 | 3974.2 | 2751.4 | 1965.8 | 1792.2 | 1723.6 | 1602.0 | 1473.2 | 1363.3 | 1245.2 | 1231.0 |
| 47.5° | 4790.5 | 4338.0 | 2690.0 | 1791.0 | 1626.8 | 1564.2 | 1454.3 | 1335.0 | 1205.0 | 1090.4 | 1077.4 |
| 50° | 5537.1 | 4860.2 | 2633.3 | 1620.9 | 1463.7 | 1416.5 | 1329.1 | 1207.4 | 1076.2 | 984.1 | 978.2 |
| 52.5° | 6487.0 | 5570.2 | 2609.7 | 1456.6 | 1311.3 | 1293.6 | 1223.9 | 1110.5 | 986.5 | 908.5 | 902.6 |
| 55° | 7577.4 | 6419.6 | 2609.7 | 1299.5 | 1177.8 | 1183.7 | 1135.3 | 1030.2 | 922.7 | 853.0 | 845.9 |
| 57.5° | 8690.2 | 7279.7 | 2562.4 | 1154.2 | 1064.4 | 1089.2 | 1058.5 | 966.4 | 869.5 | 797.4 | 785.6 |
| 60° | 9715.7 | 8000.3 | 2371.0 | 1021.9 | 964.0 | 1003.0 | 982.9 | 903.8 | 785.6 | 725.4 | 715.9 |
| 62.5° | 10503.7 | 8406.7 | 2002.4 | 916.8 | 881.3 | 926.2 | 915.6 | 821.1 | 770.3 | 745.5 | 737.2 |
| 65° | 10898.3 | 8340.6 | 1531.1 | 823.4 | 811.6 | 881.3 | 858.9 | 855.3 | 815.2 | 786.8 | 777.3 |
| 67.5° | 10656.1 | 7771.1 | 1110.5 | 754.9 | 771.4 | 840.0 | 926.2 | 940.4 | 866.0 | 810.4 | 801.0 |
| 70° | 9594.0 | 6741.0 | 827.0 | 689.9 | 720.6 | 841.1 | 1056.2 | 984.1 | 849.4 | 784.4 | 773.8 |
| 72.5° | 7298.6 | 5026.8 | 641.5 | 621.4 | 654.5 | 847.1 | 1114.0 | 964.0 | 802.2 | 867.1 | 860.0 |
| 75° | 4173.8 | 2759.7 | 515.1 | 537.5 | 571.8 | 791.5 | 1084.5 | 912.0 | 765.5 | 796.3 | 796.3 |
| 77.5° | 1591.3 | 1060.9 | 425.3 | 454.8 | 459.6 | 691.1 | 1037.3 | 908.5 | 728.9 | 711.2 | 648.6 |
| 80° | 551.7 | 414.7 | 352.1 | 361.5 | 355.6 | 614.3 | 994.7 | 790.3 | 596.6 | 534.0 | 516.3 |
| 82.5° | 225.6 | 206.7 | 278.8 | 267.0 | 252.8 | 477.3 | 803.3 | 646.2 | 487.9 | 431.2 | 426.5 |
| 85° | 98.1 | 131.1 | 184.3 | 161.8 | 146.5 | 330.8 | 643.9 | 547.0 | 412.3 | 355.6 | 354.4 |
| 87.5° | 20.1 | 49.6 | 78.0 | 73.2 | 75.6 | 220.9 | 457.2 | 388.7 | 291.8 | 218.6 | 171.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)