

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: P947450

Luminaire Tested: **GALN-SB2D-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947450
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-SB2D-750-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21819 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

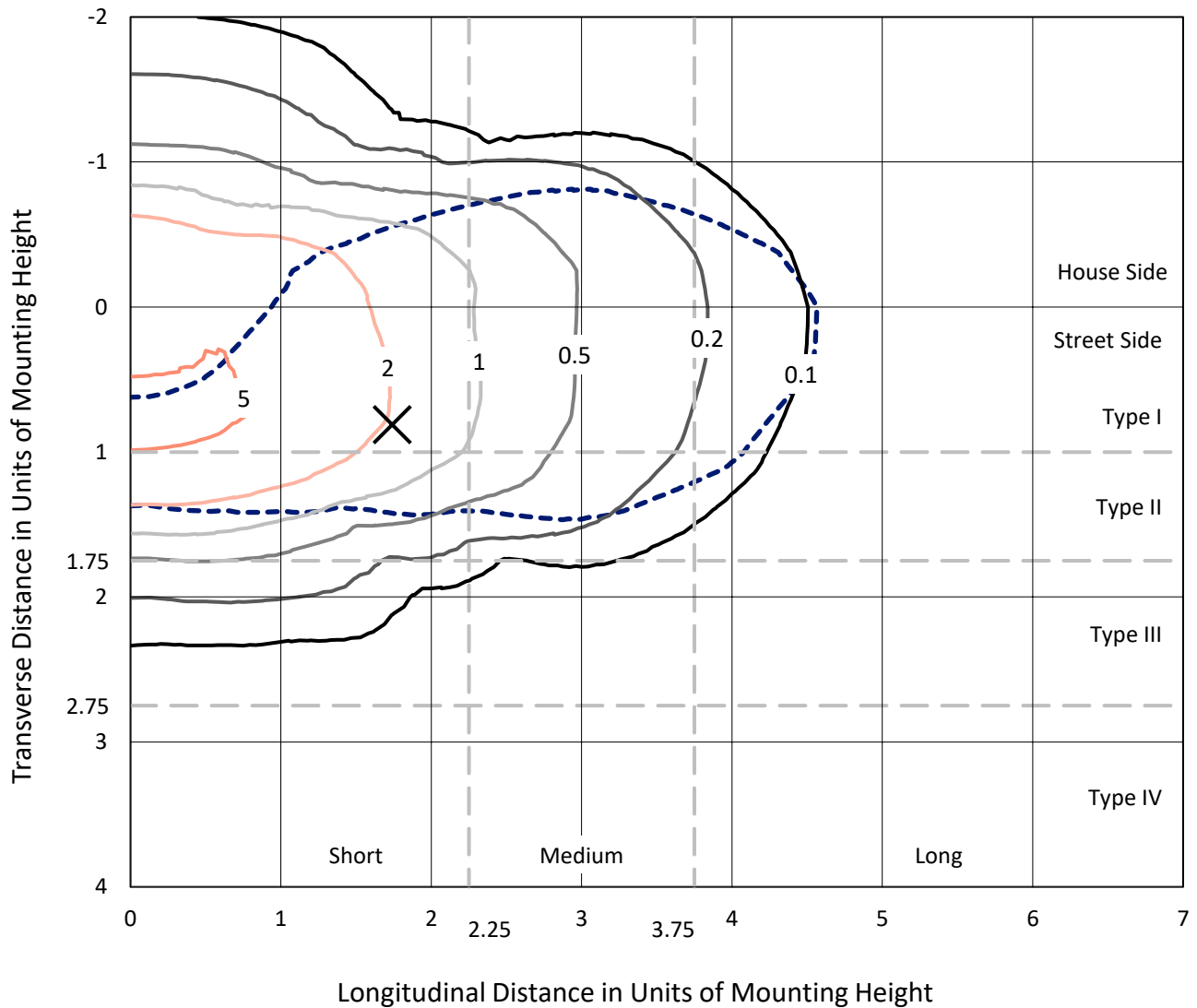
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947450
 CATALOG NUMBER: GALN-SB2D-750-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

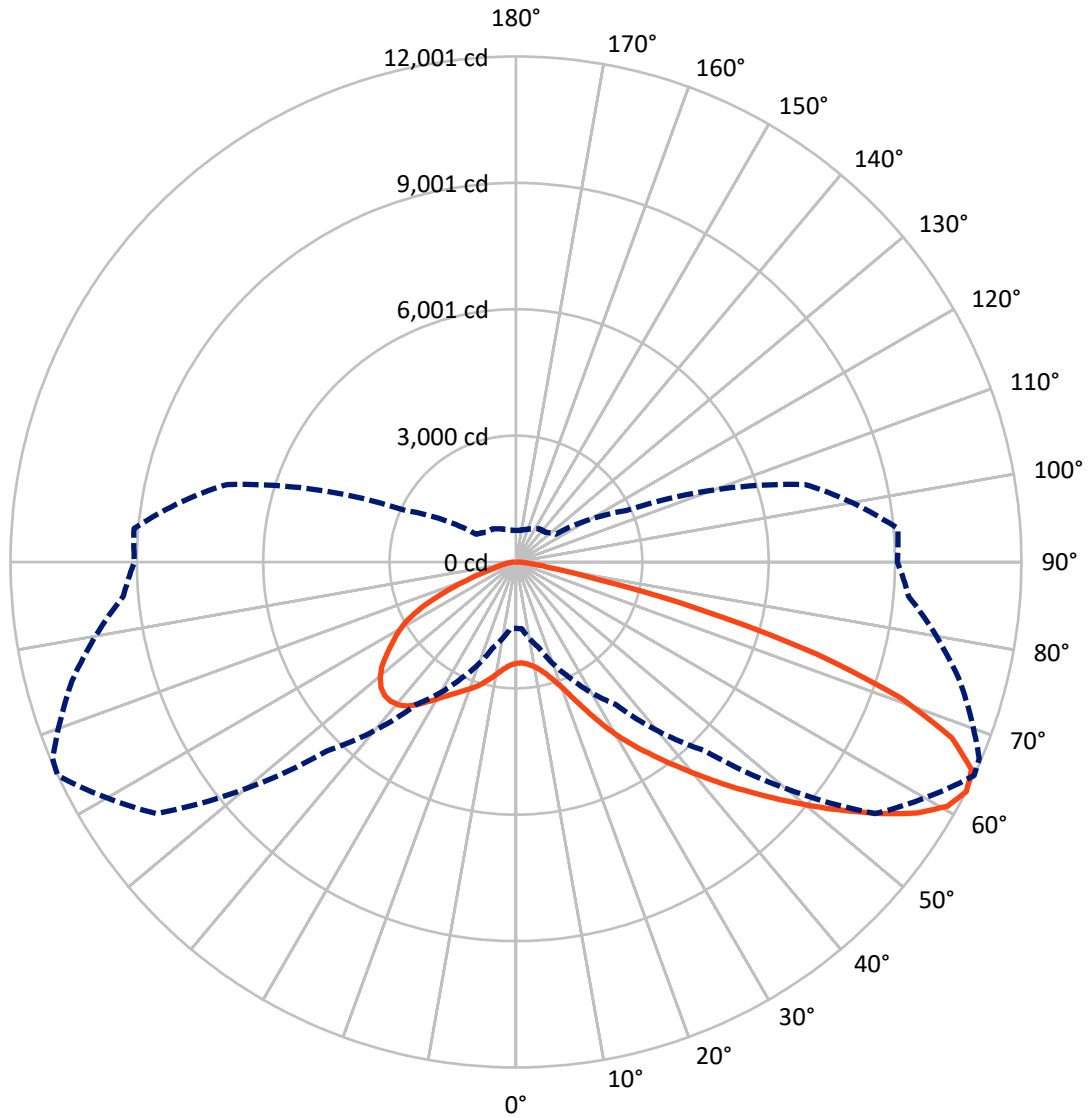
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

REPORT NUMBER: P947450
CATALOG NUMBER: GALN-SB2D-750-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P947450
 CATALOG NUMBER: GALN-SB2D-750-U-T2U

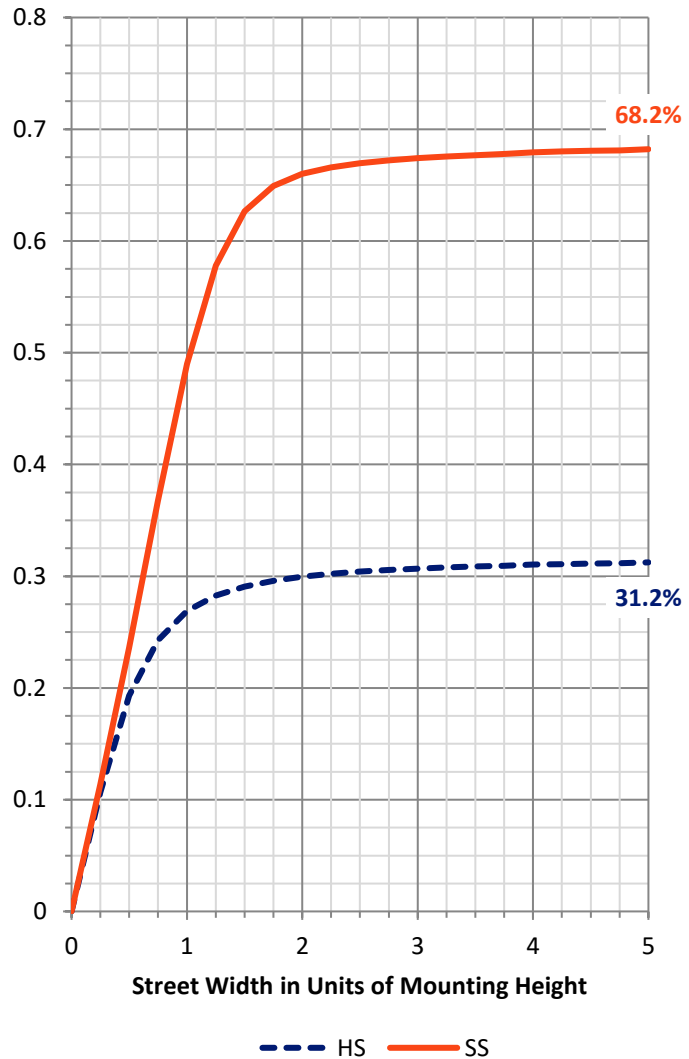
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6885.1 | 0.0 | 6885.1 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 14933.9 | 0.0 | 14933.9 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 21819.0 | 0.0 | 21819.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 239.7 | 1.1 |
| 10°-20° | 812.9 | 3.7 |
| 20°-30° | 1648.2 | 7.6 |
| 30°-40° | 2852.2 | 13.1 |
| 40°-50° | 4316.3 | 19.8 |
| 50°-60° | 5060.5 | 23.2 |
| 60°-70° | 4242.6 | 19.4 |
| 70°-80° | 2342.3 | 10.7 |
| 80°-90° | 304.3 | 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° | 21819.0 | 100.0 |
| 0°-180° | 21819.0 | 100.0 |

Coefficient of Utilization



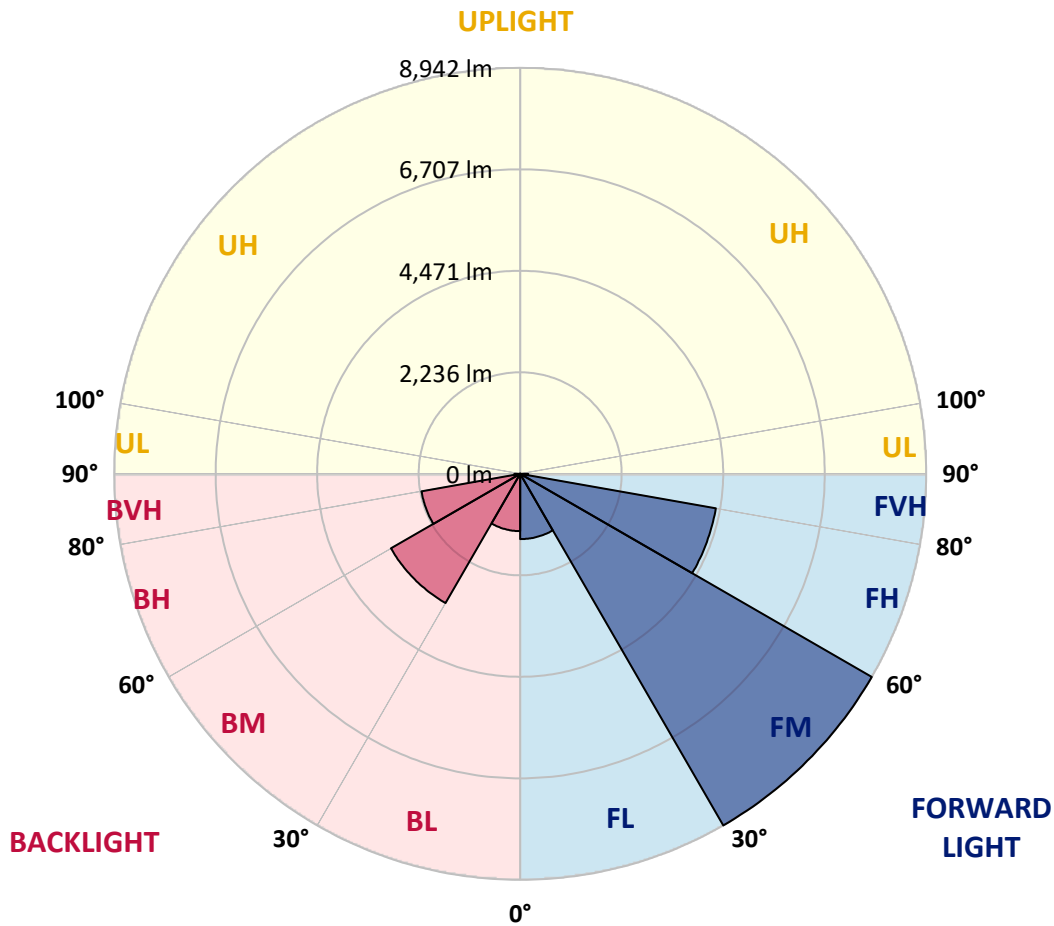
REPORT NUMBER: P947450
 CATALOG NUMBER: GALN-SB2D-750-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1438.2 | 6.6 | | | |
| FM (30°-60°) | 8942.1 | 41.0 | | | |
| FH (60°-80°) | 4376.2 | 20.1 | | | G2/5000 |
| FVH (80°-90°) | 177.3 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1262.6 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3286.9 | 15.1 | B3/5000 | | |
| BH (60°-80°) | 2208.7 | 10.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 126.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P947450
 CATALOG NUMBER: GALN-SB2D-750-U-T2U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 |
| 2.5° | 2388.5 | 2381.7 | 2387.4 | 2387.4 | 2389.6 | 2388.5 | 2396.4 | 2398.7 | 2402.1 | 2408.9 |
| 5° | 2364.7 | 2363.6 | 2373.8 | 2382.9 | 2391.9 | 2399.8 | 2410.0 | 2424.7 | 2427.0 | 2434.9 |
| 7.5° | 2356.8 | 2350.0 | 2365.9 | 2377.2 | 2398.7 | 2417.9 | 2445.1 | 2470.0 | 2480.2 | 2483.6 |
| 10° | 2417.9 | 2406.6 | 2421.3 | 2428.1 | 2446.2 | 2465.5 | 2497.2 | 2536.8 | 2548.1 | 2561.7 |
| 12.5° | 2522.1 | 2509.6 | 2531.1 | 2541.3 | 2558.3 | 2575.3 | 2596.8 | 2635.3 | 2640.9 | 2665.9 |
| 15° | 2664.7 | 2650.0 | 2663.6 | 2676.0 | 2704.3 | 2720.2 | 2741.7 | 2779.0 | 2779.0 | 2798.3 |
| 17.5° | 2858.3 | 2839.0 | 2849.2 | 2853.8 | 2871.9 | 2895.6 | 2931.9 | 2964.7 | 2981.7 | 2974.9 |
| 20° | 3146.9 | 3123.2 | 3123.2 | 3100.5 | 3093.7 | 3113.0 | 3160.5 | 3205.8 | 3223.9 | 3188.8 |
| 22.5° | 3580.5 | 3546.5 | 3527.3 | 3450.3 | 3419.8 | 3422.0 | 3469.6 | 3525.0 | 3539.8 | 3477.5 |
| 25° | 4131.8 | 4078.6 | 4052.5 | 3939.3 | 3870.3 | 3810.3 | 3847.7 | 3919.0 | 3939.3 | 3862.4 |
| 27.5° | 4683.1 | 4686.5 | 4661.6 | 4525.7 | 4411.4 | 4301.6 | 4282.3 | 4357.1 | 4378.6 | 4291.4 |
| 30° | 5456.2 | 5375.8 | 5328.3 | 5165.3 | 5002.3 | 4848.3 | 4769.1 | 4799.7 | 4805.3 | 4701.2 |
| 32.5° | 6123.0 | 6102.6 | 6000.7 | 5858.1 | 5648.7 | 5407.5 | 5275.1 | 5226.4 | 5217.4 | 5069.1 |
| 35° | 6882.5 | 6871.2 | 6763.7 | 6593.9 | 6367.5 | 6032.4 | 5793.6 | 5654.3 | 5643.0 | 5434.7 |
| 37.5° | 7654.6 | 7654.6 | 7549.3 | 7363.6 | 7129.3 | 6710.5 | 6347.1 | 6126.4 | 6090.1 | 5818.5 |
| 40° | 8270.4 | 8233.0 | 8252.2 | 8174.1 | 7905.9 | 7461.0 | 6961.8 | 6641.4 | 6592.7 | 6266.7 |
| 42.5° | 8620.1 | 8607.7 | 8723.2 | 8810.3 | 8700.5 | 8345.1 | 7638.7 | 7199.5 | 7131.6 | 6760.3 |
| 45° | 8698.3 | 8684.7 | 8890.7 | 9209.9 | 9363.9 | 9217.8 | 8374.5 | 7787.0 | 7704.4 | 7276.5 |
| 47.5° | 8518.3 | 8491.1 | 8793.3 | 9297.1 | 9790.6 | 10047.6 | 9171.4 | 8424.3 | 8304.3 | 7779.1 |
| 50° | 7977.2 | 7951.1 | 8408.5 | 9077.5 | 9934.4 | 10611.3 | 10036.3 | 9100.1 | 8916.7 | 8317.9 |
| 52.5° | 6801.0 | 6813.5 | 7530.0 | 8449.2 | 9745.4 | 10962.2 | 10781.1 | 9812.1 | 9591.4 | 8869.2 |
| 55° | 5297.7 | 5324.9 | 6205.6 | 7217.6 | 8989.2 | 10909.0 | 11289.4 | 10545.7 | 10326.1 | 9387.6 |
| 57.5° | 3793.3 | 3913.3 | 4738.5 | 5740.4 | 7536.8 | 10065.7 | 11400.3 | 11243.0 | 11030.2 | 9953.6 |
| 60° | 2458.7 | 2480.2 | 3329.2 | 4338.9 | 5739.2 | 8566.9 | 11175.1 | 11771.6 | 11605.2 | 10531.0 |
| 62.5° | 1575.7 | 1590.5 | 2107.8 | 3034.9 | 4130.7 | 6338.0 | 10416.6 | 12001.4 | 11950.5 | 10912.4 |
| 65° | 1158.0 | 1146.7 | 1416.1 | 2005.9 | 2782.4 | 3908.8 | 8943.9 | 11890.5 | 11991.2 | 11151.3 |
| 67.5° | 966.7 | 950.9 | 1083.3 | 1389.0 | 2050.0 | 2219.8 | 6617.6 | 11169.4 | 11538.4 | 11124.1 |
| 70° | 880.7 | 867.1 | 947.5 | 1031.2 | 1599.5 | 1486.3 | 3336.0 | 9710.3 | 10278.5 | 10815.1 |
| 72.5° | 746.0 | 722.2 | 832.0 | 915.8 | 1244.1 | 1139.9 | 1378.8 | 7458.7 | 8151.5 | 9824.6 |
| 75° | 578.4 | 562.6 | 656.6 | 806.0 | 935.0 | 889.7 | 871.6 | 4529.1 | 5285.3 | 7598.0 |
| 77.5° | 458.5 | 437.0 | 523.0 | 628.3 | 841.1 | 671.3 | 635.0 | 1950.4 | 2699.8 | 4850.6 |
| 80° | 345.3 | 326.0 | 397.3 | 496.9 | 646.4 | 506.0 | 410.9 | 795.8 | 1017.7 | 2457.6 |
| 82.5° | 245.6 | 228.7 | 277.3 | 364.5 | 434.7 | 453.9 | 252.4 | 446.0 | 501.5 | 947.5 |
| 85° | 157.3 | 147.2 | 185.6 | 228.7 | 276.2 | 292.1 | 154.0 | 233.2 | 255.8 | 390.5 |
| 87.5° | 86.0 | 70.2 | 99.6 | 106.4 | 127.9 | 116.6 | 73.6 | 84.9 | 91.7 | 141.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P947450
 CATALOG NUMBER: GALN-SB2D-750-U-T2U

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2404.4 | 0° | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 | 2404.4 |
| 2408.9 | 2.5° | 2413.4 | 2416.8 | 2428.1 | 2431.5 | 2439.5 | 2449.6 | 2456.4 | 2463.2 | 2463.2 | 2470.0 |
| 2445.1 | 5° | 2446.2 | 2454.2 | 2477.9 | 2490.4 | 2510.8 | 2531.1 | 2543.6 | 2558.3 | 2567.4 | 2571.9 |
| 2502.8 | 7.5° | 2509.6 | 2522.1 | 2556.0 | 2577.6 | 2612.6 | 2640.9 | 2660.2 | 2680.6 | 2685.1 | 2697.5 |
| 2583.2 | 10° | 2595.7 | 2610.4 | 2648.9 | 2689.6 | 2731.5 | 2766.6 | 2784.7 | 2799.4 | 2805.1 | 2807.3 |
| 2686.2 | 12.5° | 2694.2 | 2715.7 | 2765.5 | 2815.3 | 2859.4 | 2890.0 | 2894.5 | 2891.1 | 2875.3 | 2861.7 |
| 2813.0 | 15° | 2815.3 | 2834.5 | 2890.0 | 2944.3 | 2987.3 | 2993.0 | 2964.7 | 2946.6 | 2927.3 | 2923.9 |
| 2954.5 | 17.5° | 2960.2 | 2970.4 | 3021.3 | 3074.5 | 3077.9 | 3058.7 | 3016.8 | 2999.8 | 2981.7 | 2969.2 |
| 3139.0 | 20° | 3128.8 | 3125.4 | 3161.7 | 3184.3 | 3160.5 | 3101.7 | 3038.3 | 3010.0 | 2991.9 | 2977.1 |
| 3365.4 | 22.5° | 3330.3 | 3304.3 | 3299.8 | 3294.1 | 3230.7 | 3107.3 | 3021.3 | 2985.1 | 2956.8 | 2936.4 |
| 3681.3 | 25° | 3623.5 | 3523.9 | 3454.9 | 3416.4 | 3273.7 | 3076.8 | 2967.0 | 2886.6 | 2833.4 | 2798.3 |
| 4067.3 | 27.5° | 3990.3 | 3822.7 | 3648.4 | 3554.5 | 3273.7 | 3014.5 | 2835.6 | 2705.5 | 2618.3 | 2582.1 |
| 4440.8 | 30° | 4340.1 | 4164.6 | 3907.6 | 3720.9 | 3265.8 | 2912.6 | 2624.0 | 2442.8 | 2341.0 | 2304.7 |
| 4760.0 | 32.5° | 4638.9 | 4447.6 | 4182.7 | 3903.1 | 3246.6 | 2747.4 | 2361.3 | 2161.0 | 2062.5 | 2019.5 |
| 5075.9 | 35° | 4916.3 | 4712.5 | 4458.9 | 4103.5 | 3195.6 | 2505.1 | 2072.7 | 1919.9 | 1810.1 | 1741.0 |
| 5397.4 | 37.5° | 5200.4 | 4958.1 | 4720.4 | 4284.6 | 3103.9 | 2222.1 | 1850.8 | 1720.6 | 1591.6 | 1498.8 |
| 5739.2 | 40° | 5509.4 | 5219.6 | 5000.0 | 4392.1 | 2953.4 | 1952.7 | 1678.7 | 1559.9 | 1422.9 | 1324.4 |
| 6133.2 | 42.5° | 5870.5 | 5533.2 | 5311.3 | 4447.6 | 2747.4 | 1761.4 | 1566.7 | 1450.1 | 1321.0 | 1240.7 |
| 6555.4 | 45° | 6247.5 | 5878.5 | 5595.5 | 4446.5 | 2517.6 | 1672.0 | 1530.5 | 1415.0 | 1272.4 | 1188.6 |
| 6988.9 | 47.5° | 6642.6 | 6239.6 | 5841.1 | 4374.0 | 2318.3 | 1684.4 | 1510.1 | 1339.2 | 1181.8 | 1100.3 |
| 7427.0 | 50° | 7038.8 | 6634.6 | 6078.8 | 4238.2 | 2233.4 | 1657.2 | 1434.2 | 1232.7 | 1047.1 | 973.5 |
| 7837.9 | 52.5° | 7431.6 | 7054.6 | 6283.7 | 4044.6 | 2147.4 | 1556.5 | 1336.9 | 1094.6 | 991.6 | 940.7 |
| 8262.4 | 55° | 7826.6 | 7470.0 | 6506.7 | 3762.8 | 1932.3 | 1438.8 | 1173.9 | 1042.6 | 947.5 | 901.1 |
| 8677.9 | 57.5° | 8222.8 | 7950.0 | 6718.4 | 3480.9 | 1661.8 | 1293.9 | 1084.5 | 979.2 | 903.3 | 863.7 |
| 9025.4 | 60° | 8634.9 | 8499.0 | 6936.9 | 3221.7 | 1394.6 | 1108.2 | 1018.8 | 928.2 | 851.3 | 807.1 |
| 9359.3 | 62.5° | 9059.4 | 9103.5 | 7107.8 | 2887.7 | 1149.0 | 995.0 | 959.9 | 867.1 | 792.4 | 750.5 |
| 9635.5 | 65° | 9487.3 | 9686.5 | 7219.9 | 2424.7 | 931.6 | 887.5 | 896.5 | 800.3 | 724.5 | 688.3 |
| 9838.2 | 67.5° | 9809.9 | 10106.5 | 7188.2 | 1835.0 | 764.1 | 785.6 | 817.3 | 730.1 | 658.8 | 630.5 |
| 9805.3 | 70° | 9846.1 | 10056.7 | 6875.7 | 1256.5 | 639.6 | 686.0 | 729.0 | 661.1 | 587.5 | 567.1 |
| 9343.5 | 72.5° | 9363.9 | 9377.5 | 6005.2 | 820.7 | 541.1 | 602.2 | 636.2 | 590.9 | 519.6 | 499.2 |
| 8174.1 | 75° | 8099.4 | 7755.3 | 4409.1 | 541.1 | 452.8 | 517.3 | 549.0 | 517.3 | 448.3 | 452.8 |
| 6116.2 | 77.5° | 6136.5 | 5492.4 | 2677.2 | 384.9 | 378.1 | 434.7 | 477.7 | 455.1 | 396.2 | 444.9 |
| 3075.6 | 80° | 3161.7 | 2971.5 | 1194.3 | 287.5 | 298.8 | 347.5 | 392.8 | 363.4 | 313.6 | 298.8 |
| 687.1 | 82.5° | 724.5 | 842.2 | 470.9 | 206.0 | 216.2 | 250.2 | 300.0 | 272.8 | 225.3 | 190.2 |
| 286.4 | 85° | 253.6 | 277.3 | 208.3 | 129.0 | 126.8 | 156.2 | 203.8 | 182.3 | 152.8 | 122.3 |
| 121.1 | 87.5° | 80.4 | 105.3 | 78.1 | 52.1 | 54.3 | 70.2 | 94.0 | 86.0 | 71.3 | 46.4 |
| 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> |
|-------------|
| 2404.4 |
| 2470.0 |
| 2574.2 |
| 2693.0 |
| 2801.7 |
| 2861.7 |
| 2923.9 |
| 2970.4 |
| 2978.3 |
| 2943.2 |
| 2811.9 |
| 2600.2 |
| 2326.3 |
| 2041.0 |
| 1763.6 |
| 1523.7 |
| 1343.7 |
| 1256.5 |
| 1202.2 |
| 1111.6 |
| 978.0 |
| 940.7 |
| 896.5 |
| 856.9 |
| 803.7 |
| 749.4 |
| 687.1 |
| 631.7 |
| 568.3 |
| 498.1 |
| 437.0 |
| 391.7 |
| 272.8 |
| 187.9 |
| 129.0 |
| 48.7 |
| 0.0 |

F REPORT)