

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: P948525

Luminaire Tested: **GALN-SB3C-750-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948525
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-750-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23726 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

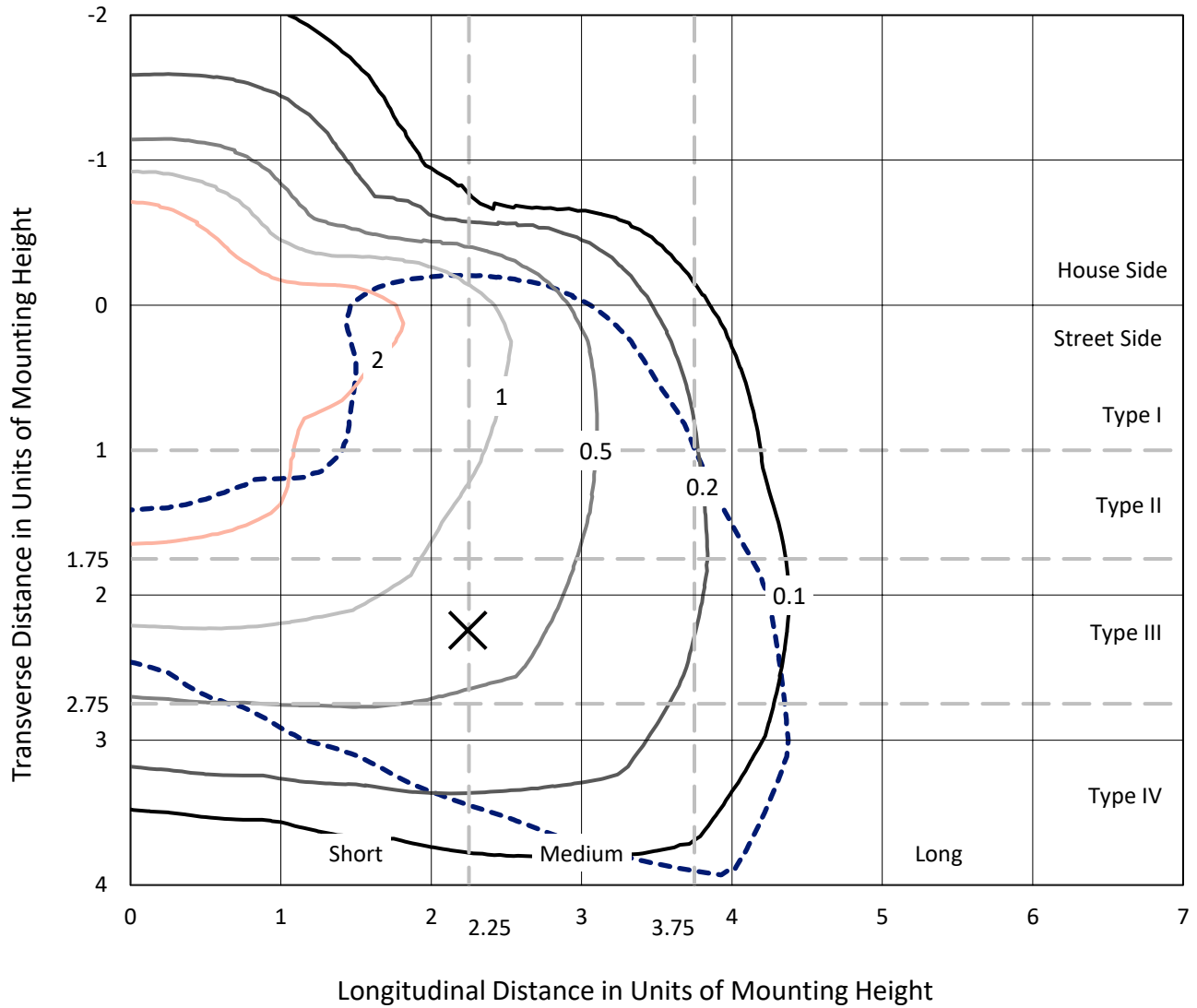
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

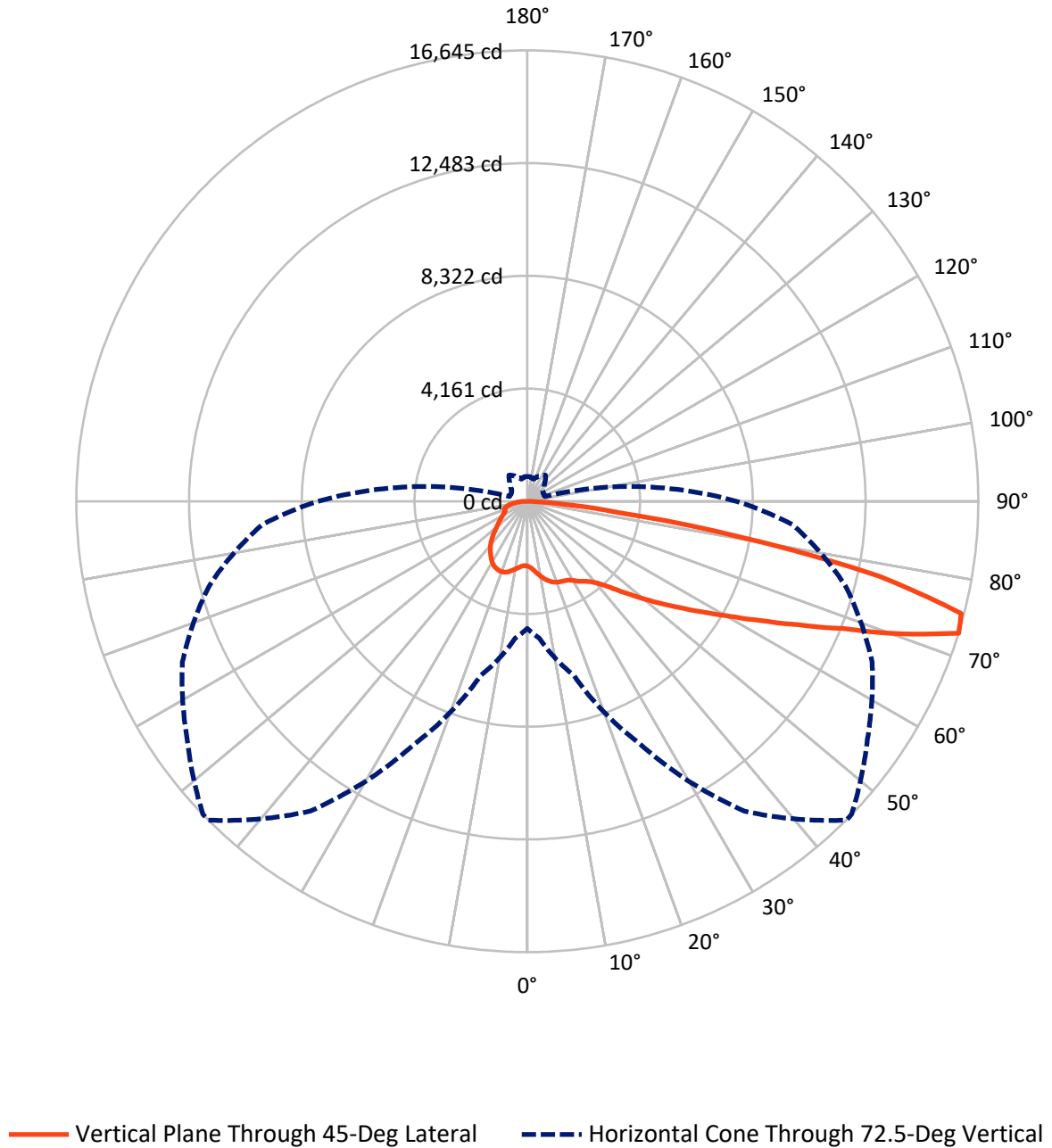
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5363.6 | 0.0 | 5363.6 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 18362.4 | 0.0 | 18362.4 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 23726.0 | 0.0 | 23726.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.6 | 1.0 |
| 10°-20° | 812.2 | 3.4 |
| 20°-30° | 1412.9 | 6.0 |
| 30°-40° | 2025.5 | 8.5 |
| 40°-50° | 2852.0 | 12.0 |
| 50°-60° | 4368.5 | 18.4 |
| 60°-70° | 6328.3 | 26.7 |
| 70°-80° | 5053.6 | 21.3 |
| 80°-90° | 629.4 | 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° | 23726.0 | 100.0 |
| 0°-180° | 23726.0 | 100.0 |

Coefficient of Utilization



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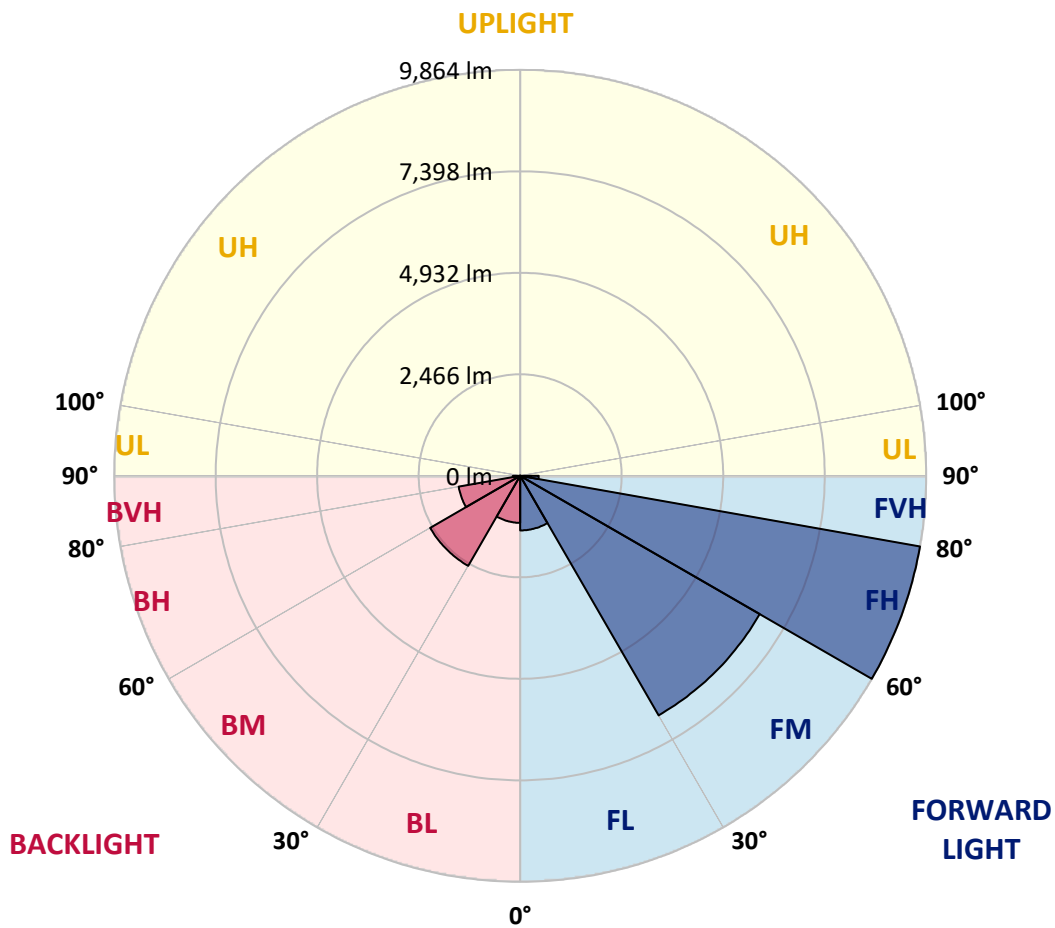
CATALOG NUMBER: GALN-SB3C-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1326.8 | 5.6 | | | |
| FM (30°-60°) | 6720.4 | 28.3 | | | |
| FH (60°-80°) | 9863.6 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 451.5 | 1.9 | | | G3/500 |
| BL (0°-30°) | 1142.0 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2525.5 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 1518.3 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 177.9 | 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 |
| 2.5° | 2487.2 | 2503.5 | 2488.5 | 2474.7 | 2468.5 | 2452.2 | 2451.0 | 2441.0 | 2434.7 | 2417.2 |
| 5° | 2661.0 | 2682.2 | 2657.2 | 2629.7 | 2604.7 | 2564.7 | 2559.7 | 2531.0 | 2498.5 | 2461.0 |
| 7.5° | 2857.2 | 2875.9 | 2847.2 | 2805.9 | 2762.2 | 2696.0 | 2694.7 | 2642.2 | 2591.0 | 2527.2 |
| 10° | 3028.4 | 3053.4 | 3014.7 | 2958.4 | 2903.4 | 2828.4 | 2819.7 | 2759.7 | 2694.7 | 2612.2 |
| 12.5° | 3179.7 | 3197.2 | 3159.7 | 3090.9 | 3027.2 | 2952.2 | 2940.9 | 2874.7 | 2802.2 | 2708.5 |
| 15° | 3299.6 | 3322.1 | 3272.1 | 3198.4 | 3130.9 | 3057.2 | 3047.2 | 2987.2 | 2914.7 | 2815.9 |
| 17.5° | 3378.4 | 3397.1 | 3345.9 | 3263.4 | 3198.4 | 3137.2 | 3129.7 | 3079.7 | 3015.9 | 2915.9 |
| 20° | 3408.4 | 3428.4 | 3374.6 | 3290.9 | 3230.9 | 3183.4 | 3179.7 | 3143.4 | 3099.7 | 3008.4 |
| 22.5° | 3438.4 | 3457.1 | 3387.1 | 3299.6 | 3247.1 | 3217.2 | 3215.9 | 3192.2 | 3174.7 | 3099.7 |
| 25° | 3559.6 | 3564.6 | 3470.9 | 3344.6 | 3269.6 | 3243.4 | 3242.1 | 3240.9 | 3248.4 | 3189.7 |
| 27.5° | 3664.6 | 3663.4 | 3583.4 | 3464.6 | 3348.4 | 3293.4 | 3292.1 | 3304.6 | 3328.4 | 3279.6 |
| 30° | 3818.3 | 3804.6 | 3709.6 | 3585.9 | 3479.6 | 3394.6 | 3387.1 | 3375.9 | 3394.6 | 3355.9 |
| 32.5° | 4144.6 | 4100.8 | 3947.1 | 3727.1 | 3588.4 | 3523.4 | 3513.4 | 3443.4 | 3450.9 | 3427.1 |
| 35° | 4612.0 | 4554.5 | 4349.5 | 3994.6 | 3723.3 | 3630.9 | 3625.9 | 3537.1 | 3522.1 | 3500.9 |
| 37.5° | 5168.2 | 5096.9 | 4858.2 | 4382.0 | 3955.8 | 3755.8 | 3748.3 | 3668.4 | 3607.1 | 3584.6 |
| 40° | 5726.9 | 5636.9 | 5439.4 | 4854.5 | 4298.3 | 3964.6 | 3940.8 | 3819.6 | 3749.6 | 3712.1 |
| 42.5° | 6269.3 | 6194.3 | 6025.6 | 5384.4 | 4720.7 | 4269.5 | 4217.0 | 4009.6 | 3957.1 | 3922.1 |
| 45° | 6749.3 | 6681.8 | 6558.0 | 5950.6 | 5215.7 | 4684.5 | 4633.2 | 4294.5 | 4278.3 | 4278.3 |
| 47.5° | 7139.2 | 7124.2 | 6993.0 | 6528.0 | 5799.4 | 5156.9 | 5068.2 | 4690.7 | 4734.5 | 4802.0 |
| 50° | 7571.7 | 7530.4 | 7390.5 | 7096.7 | 6485.5 | 5698.1 | 5625.6 | 5176.9 | 5340.7 | 5525.7 |
| 52.5° | 7969.1 | 7991.6 | 7835.4 | 7689.2 | 7260.5 | 6301.8 | 6174.3 | 5750.6 | 6104.3 | 6410.6 |
| 55° | 8377.8 | 8379.1 | 8335.4 | 8315.4 | 8072.9 | 6969.2 | 6829.3 | 6440.6 | 7003.0 | 7383.0 |
| 57.5° | 8761.6 | 8764.1 | 8829.0 | 9005.3 | 9015.3 | 7739.2 | 7580.4 | 7288.0 | 8001.6 | 8389.1 |
| 60° | 9104.0 | 9121.5 | 9299.0 | 9711.5 | 9843.9 | 8621.6 | 8471.6 | 8289.1 | 9034.0 | 9424.0 |
| 62.5° | 9219.0 | 9282.7 | 9677.7 | 10263.9 | 10662.6 | 9704.0 | 9556.5 | 9447.7 | 10118.9 | 10481.4 |
| 65° | 9024.0 | 9170.3 | 9933.9 | 10720.1 | 11505.0 | 10990.1 | 10843.8 | 10725.1 | 11246.3 | 11587.5 |
| 67.5° | 8545.3 | 8734.1 | 9918.9 | 11198.8 | 12527.4 | 12537.4 | 12401.2 | 12122.4 | 12454.9 | 12586.1 |
| 70° | 7284.2 | 7566.7 | 9045.3 | 11377.5 | 13701.0 | 14653.4 | 14522.2 | 13804.8 | 13661.0 | 13026.1 |
| 72.5° | 4693.2 | 5073.2 | 6660.5 | 9906.4 | 13962.2 | 16644.5 | 16637.0 | 15323.3 | 14042.2 | 12171.2 |
| 75° | 1712.3 | 1944.8 | 3094.7 | 6218.1 | 11720.0 | 16543.2 | 16592.0 | 15063.4 | 12818.6 | 9401.5 |
| 77.5° | 623.7 | 682.4 | 1009.9 | 2389.7 | 7208.0 | 13273.6 | 13374.8 | 12042.4 | 9124.0 | 4718.2 |
| 80° | 327.5 | 360.0 | 517.4 | 927.4 | 3088.4 | 7882.9 | 8041.6 | 7156.7 | 4288.3 | 1421.1 |
| 82.5° | 181.2 | 196.2 | 290.0 | 503.7 | 1391.1 | 3370.9 | 3465.9 | 2827.2 | 1508.6 | 602.4 |
| 85° | 97.5 | 103.7 | 136.2 | 275.0 | 679.9 | 1168.6 | 1194.9 | 844.9 | 601.2 | 353.7 |
| 87.5° | 28.7 | 35.0 | 45.0 | 87.5 | 266.2 | 262.5 | 268.7 | 167.5 | 237.5 | 178.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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 CATALOG NUMBER: GALN-SB3C-750-U-T4W

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2393.5 | 0° | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 | 2393.5 |
| 2412.2 | 2.5° | 2404.7 | 2401.0 | 2387.2 | 2381.0 | 2373.5 | 2372.2 | 2378.5 | 2379.7 | 2381.0 | 2382.2 |
| 2439.7 | 5° | 2427.2 | 2414.7 | 2402.2 | 2394.7 | 2397.2 | 2398.5 | 2411.0 | 2419.7 | 2426.0 | 2431.0 |
| 2491.0 | 7.5° | 2471.0 | 2461.0 | 2439.7 | 2438.5 | 2442.2 | 2453.5 | 2469.7 | 2489.7 | 2501.0 | 2509.7 |
| 2557.2 | 10° | 2536.0 | 2517.2 | 2492.2 | 2496.0 | 2503.5 | 2519.7 | 2553.5 | 2569.7 | 2588.5 | 2604.7 |
| 2638.5 | 12.5° | 2602.2 | 2586.0 | 2557.2 | 2559.7 | 2572.2 | 2601.0 | 2633.5 | 2653.5 | 2666.0 | 2678.5 |
| 2726.0 | 15° | 2688.5 | 2659.7 | 2628.5 | 2628.5 | 2651.0 | 2682.2 | 2697.2 | 2713.5 | 2721.0 | 2734.7 |
| 2819.7 | 17.5° | 2777.2 | 2739.7 | 2698.5 | 2696.0 | 2723.5 | 2738.5 | 2747.2 | 2749.7 | 2752.2 | 2767.2 |
| 2910.9 | 20° | 2865.9 | 2824.7 | 2766.0 | 2761.0 | 2767.2 | 2764.7 | 2763.5 | 2761.0 | 2764.7 | 2783.4 |
| 3004.7 | 22.5° | 2953.4 | 2905.9 | 2824.7 | 2802.2 | 2784.7 | 2761.0 | 2759.7 | 2758.5 | 2761.0 | 2779.7 |
| 3105.9 | 25° | 3055.9 | 2998.4 | 2889.7 | 2822.2 | 2763.5 | 2731.0 | 2734.7 | 2736.0 | 2738.5 | 2753.5 |
| 3210.9 | 27.5° | 3167.2 | 3103.4 | 2949.7 | 2815.9 | 2709.7 | 2687.2 | 2681.0 | 2684.7 | 2693.5 | 2717.2 |
| 3315.9 | 30° | 3278.4 | 3203.4 | 3004.7 | 2790.9 | 2642.2 | 2611.0 | 2591.0 | 2599.7 | 2627.2 | 2651.0 |
| 3407.1 | 32.5° | 3379.6 | 3304.6 | 3048.4 | 2736.0 | 2556.0 | 2507.2 | 2481.0 | 2492.2 | 2519.7 | 2528.5 |
| 3508.4 | 35° | 3498.4 | 3413.4 | 3067.2 | 2648.5 | 2462.2 | 2387.2 | 2352.2 | 2336.0 | 2349.7 | 2341.0 |
| 3627.1 | 37.5° | 3630.9 | 3542.1 | 3064.7 | 2533.5 | 2352.2 | 2266.0 | 2217.3 | 2156.0 | 2127.3 | 2097.3 |
| 3802.1 | 40° | 3827.1 | 3699.6 | 3034.7 | 2394.7 | 2216.0 | 2137.3 | 2049.8 | 1946.0 | 1881.0 | 1822.3 |
| 4084.6 | 42.5° | 4094.6 | 3918.3 | 2979.7 | 2242.3 | 2062.3 | 1988.5 | 1869.8 | 1748.6 | 1646.1 | 1548.6 |
| 4513.3 | 45° | 4493.3 | 4204.5 | 2910.9 | 2079.8 | 1896.0 | 1823.6 | 1694.8 | 1558.6 | 1442.3 | 1317.4 |
| 5121.9 | 47.5° | 5068.2 | 4589.5 | 2845.9 | 1894.8 | 1721.1 | 1654.8 | 1538.6 | 1412.3 | 1274.9 | 1153.6 |
| 6001.9 | 50° | 5858.1 | 5141.9 | 2785.9 | 1714.8 | 1548.6 | 1498.6 | 1406.1 | 1277.4 | 1138.6 | 1041.1 |
| 7033.0 | 52.5° | 6863.0 | 5893.1 | 2761.0 | 1541.1 | 1387.4 | 1368.6 | 1294.9 | 1174.9 | 1043.6 | 961.1 |
| 8235.4 | 55° | 8016.6 | 6791.8 | 2761.0 | 1374.9 | 1246.1 | 1252.4 | 1201.1 | 1089.9 | 976.1 | 902.4 |
| 9475.2 | 57.5° | 9194.0 | 7701.7 | 2711.0 | 1221.1 | 1126.1 | 1152.4 | 1119.9 | 1022.4 | 919.9 | 843.7 |
| 10778.8 | 60° | 10278.9 | 8464.1 | 2508.5 | 1081.1 | 1019.9 | 1061.1 | 1039.9 | 956.1 | 831.2 | 767.4 |
| 11868.7 | 62.5° | 11112.6 | 8894.0 | 2118.5 | 969.9 | 932.4 | 979.9 | 968.6 | 868.7 | 814.9 | 788.7 |
| 12763.6 | 65° | 11530.0 | 8824.0 | 1619.8 | 871.2 | 858.7 | 932.4 | 908.7 | 904.9 | 862.4 | 832.4 |
| 13054.8 | 67.5° | 11273.8 | 8221.6 | 1174.9 | 798.7 | 816.2 | 888.7 | 979.9 | 994.9 | 916.2 | 857.4 |
| 12234.9 | 70° | 10150.2 | 7131.7 | 874.9 | 729.9 | 762.4 | 889.9 | 1117.4 | 1041.1 | 898.7 | 829.9 |
| 9812.7 | 72.5° | 7721.7 | 5318.2 | 678.7 | 657.4 | 692.4 | 896.2 | 1178.6 | 1019.9 | 848.7 | 917.4 |
| 6113.1 | 75° | 4415.8 | 2919.7 | 544.9 | 568.7 | 604.9 | 837.4 | 1147.4 | 964.9 | 809.9 | 842.4 |
| 2422.2 | 77.5° | 1683.6 | 1122.4 | 450.0 | 481.2 | 486.2 | 731.2 | 1097.4 | 961.1 | 771.2 | 752.4 |
| 726.2 | 80° | 583.7 | 438.7 | 372.5 | 382.5 | 376.2 | 649.9 | 1052.4 | 836.2 | 631.2 | 564.9 |
| 300.0 | 82.5° | 238.7 | 218.7 | 295.0 | 282.5 | 267.5 | 504.9 | 849.9 | 683.7 | 516.2 | 456.2 |
| 145.0 | 85° | 103.7 | 138.7 | 195.0 | 171.2 | 155.0 | 350.0 | 681.2 | 578.7 | 436.2 | 376.2 |
| 47.5 | 87.5° | 21.2 | 52.5 | 82.5 | 77.5 | 80.0 | 233.7 | 483.7 | 411.2 | 308.7 | 231.2 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| <u>180°</u> |
|-------------|
| 2393.5 |
| 2387.2 |
| 2433.5 |
| 2512.2 |
| 2601.0 |
| 2683.5 |
| 2739.7 |
| 2772.2 |
| 2790.9 |
| 2792.2 |
| 2773.5 |
| 2741.0 |
| 2677.2 |
| 2559.7 |
| 2368.5 |
| 2116.0 |
| 1826.1 |
| 1539.8 |
| 1302.4 |
| 1139.9 |
| 1034.9 |
| 954.9 |
| 894.9 |
| 831.2 |
| 757.4 |
| 779.9 |
| 822.4 |
| 847.4 |
| 818.7 |
| 909.9 |
| 842.4 |
| 686.2 |
| 546.2 |
| 451.2 |
| 375.0 |
| 181.2 |
| 0.0 |

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