

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: P940742

Luminaire Tested: **GALN-SB3D-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21054 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

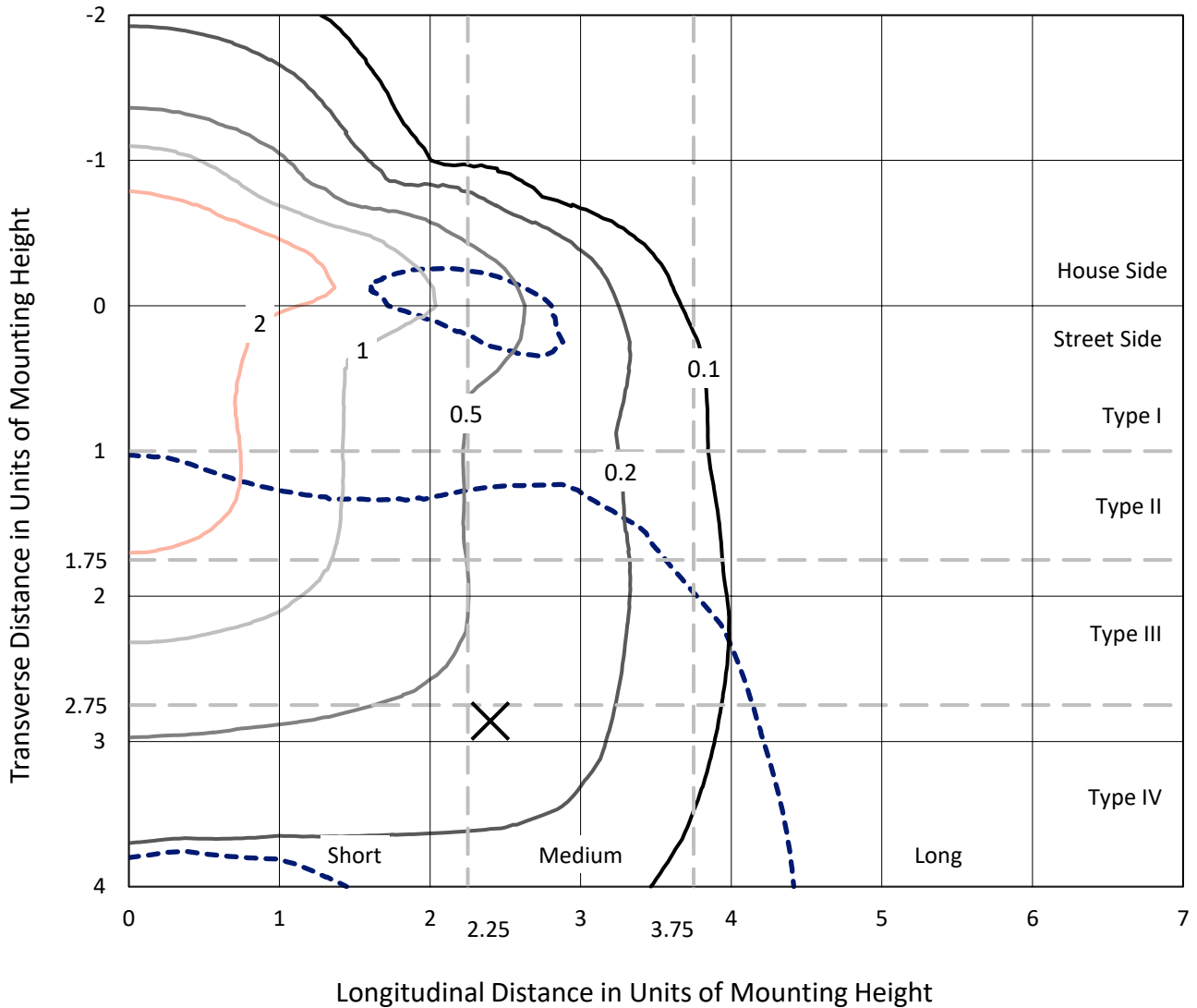
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

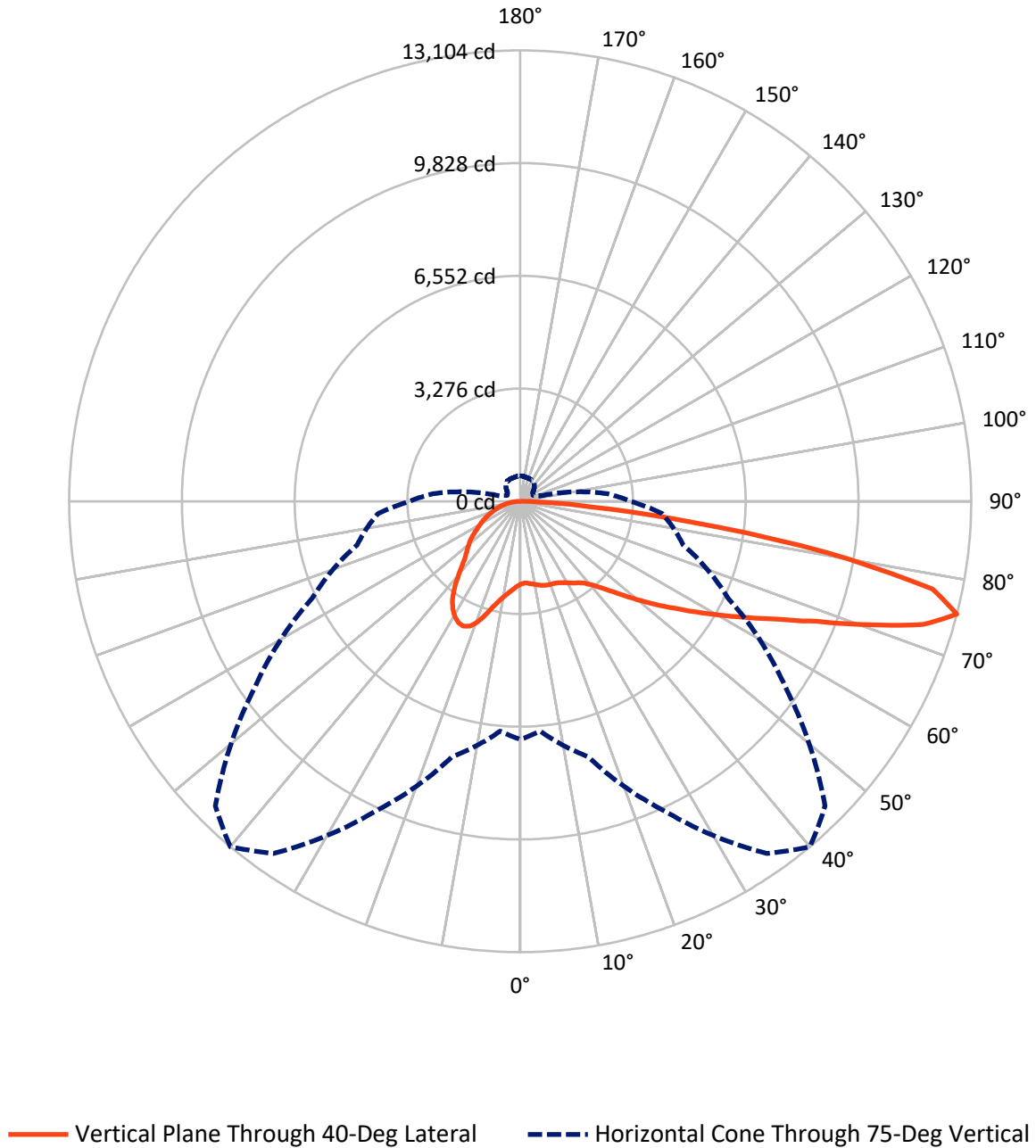
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6523.2 | 0.0 | 6523.2 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 14530.8 | 0.0 | 14530.8 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 21054.0 | 0.0 | 21054.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 240.3 | 1.1 |
| 10°-20° | 806.9 | 3.8 |
| 20°-30° | 1473.3 | 7.0 |
| 30°-40° | 2089.5 | 9.9 |
| 40°-50° | 2821.4 | 13.4 |
| 50°-60° | 3795.6 | 18.0 |
| 60°-70° | 4817.5 | 22.9 |
| 70°-80° | 4372.2 | 20.8 |
| 80°-90° | 637.3 | 3.0 |
| 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° | 21054.0 | 100.0 |
| 0°-180° | 21054.0 | 100.0 |

Coefficient of Utilization



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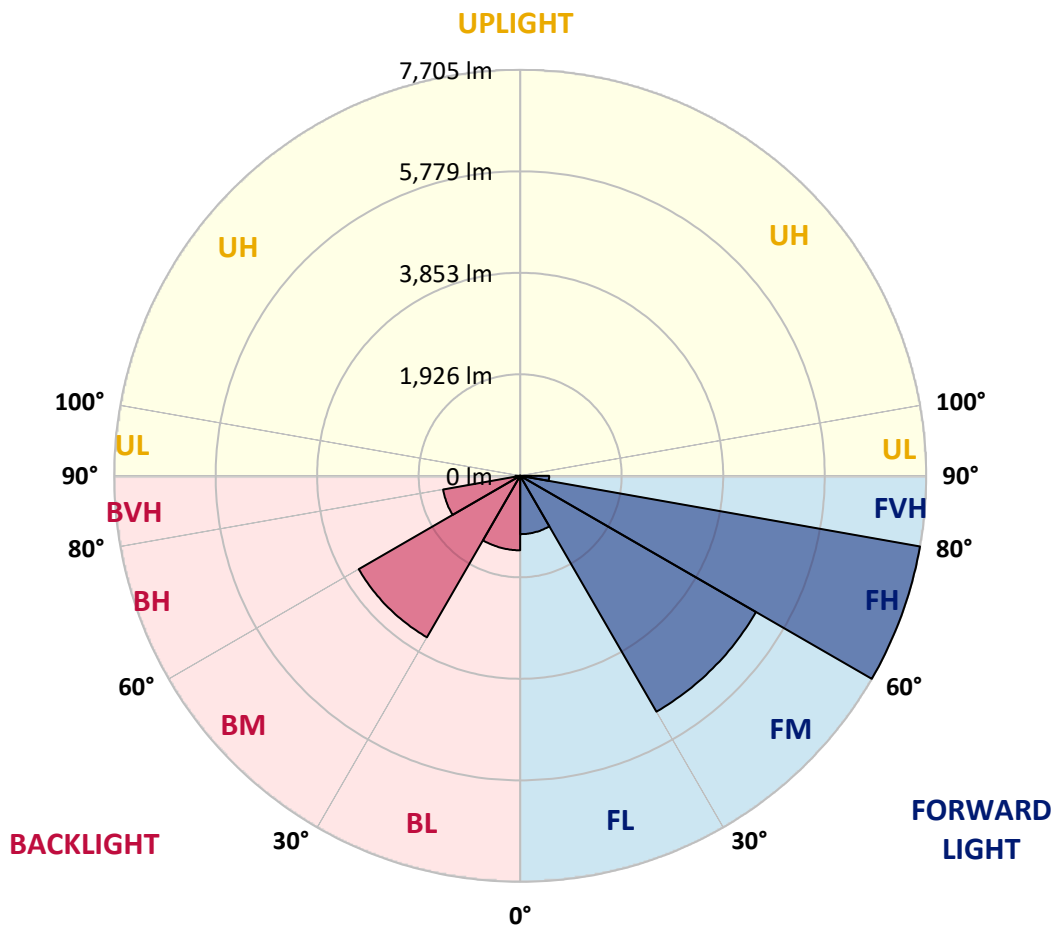
CATALOG NUMBER: GALN-SB3D-950-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1107.5 | 5.3 | | | |
| FM (30°-60°) | 5168.3 | 24.5 | | | |
| FH (60°-80°) | 7705.4 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 549.6 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1413.0 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 3538.3 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1484.2 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 87.8 | 0.4 | | | G1/100 |
| 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 |
| 2.5° | 2370.7 | 2384.1 | 2380.8 | 2376.3 | 2376.3 | 2377.4 | 2376.3 | 2384.1 | 2391.9 | 2399.7 |
| 5° | 2395.3 | 2408.7 | 2402.0 | 2396.4 | 2391.9 | 2390.8 | 2387.5 | 2386.3 | 2390.8 | 2400.9 |
| 7.5° | 2443.3 | 2456.7 | 2446.6 | 2436.6 | 2427.7 | 2423.2 | 2418.7 | 2412.0 | 2408.7 | 2414.3 |
| 10° | 2496.9 | 2510.3 | 2498.0 | 2480.1 | 2465.6 | 2460.0 | 2455.6 | 2448.9 | 2444.4 | 2447.8 |
| 12.5° | 2550.5 | 2563.9 | 2547.1 | 2522.6 | 2503.6 | 2500.2 | 2494.7 | 2492.4 | 2491.3 | 2490.2 |
| 15° | 2600.7 | 2611.9 | 2590.7 | 2561.7 | 2541.6 | 2536.0 | 2530.4 | 2533.7 | 2539.3 | 2546.0 |
| 17.5° | 2639.8 | 2651.0 | 2619.7 | 2581.8 | 2562.8 | 2560.5 | 2557.2 | 2568.4 | 2584.0 | 2600.7 |
| 20° | 2675.6 | 2686.7 | 2646.5 | 2595.2 | 2572.8 | 2572.8 | 2573.9 | 2597.4 | 2619.7 | 2644.3 |
| 22.5° | 2725.8 | 2734.7 | 2685.6 | 2615.3 | 2582.9 | 2585.1 | 2594.0 | 2617.5 | 2645.4 | 2678.9 |
| 25° | 2800.6 | 2807.3 | 2747.0 | 2653.2 | 2616.4 | 2623.1 | 2630.9 | 2642.1 | 2668.9 | 2707.9 |
| 27.5° | 2921.2 | 2926.8 | 2847.5 | 2720.2 | 2664.4 | 2675.6 | 2686.7 | 2678.9 | 2691.2 | 2724.7 |
| 30° | 3091.0 | 3094.3 | 2993.8 | 2825.2 | 2745.9 | 2751.5 | 2753.7 | 2721.3 | 2697.9 | 2724.7 |
| 32.5° | 3292.0 | 3290.8 | 3171.4 | 2952.5 | 2838.6 | 2833.0 | 2814.0 | 2750.4 | 2695.7 | 2719.1 |
| 35° | 3603.5 | 3591.2 | 3437.1 | 3131.2 | 2943.6 | 2908.9 | 2864.3 | 2782.8 | 2706.8 | 2713.5 |
| 37.5° | 4119.4 | 4081.4 | 3868.2 | 3423.7 | 3099.9 | 3011.7 | 2945.8 | 2835.2 | 2731.4 | 2711.3 |
| 40° | 4701.2 | 4653.2 | 4418.7 | 3824.6 | 3334.4 | 3192.6 | 3086.5 | 2910.1 | 2771.6 | 2721.3 |
| 42.5° | 5391.3 | 5323.2 | 5070.8 | 4297.0 | 3631.4 | 3426.0 | 3266.3 | 3005.0 | 2830.8 | 2753.7 |
| 45° | 6238.9 | 6148.4 | 5791.1 | 4829.6 | 4005.5 | 3731.9 | 3518.6 | 3149.0 | 2921.2 | 2816.3 |
| 47.5° | 7095.4 | 7117.7 | 6609.6 | 5439.3 | 4454.4 | 4109.4 | 3834.7 | 3365.7 | 3053.0 | 2916.8 |
| 50° | 8005.4 | 8021.1 | 7423.7 | 6114.9 | 4963.6 | 4535.9 | 4189.8 | 3608.0 | 3236.1 | 3059.7 |
| 52.5° | 8715.7 | 8717.9 | 8162.9 | 6821.8 | 5494.0 | 5004.9 | 4572.8 | 3884.9 | 3448.3 | 3249.5 |
| 55° | 9160.1 | 9154.5 | 8681.0 | 7490.7 | 6103.7 | 5497.4 | 4997.1 | 4199.8 | 3707.4 | 3472.9 |
| 57.5° | 9482.8 | 9466.1 | 9038.4 | 8065.7 | 6753.7 | 6079.2 | 5477.3 | 4557.2 | 4013.3 | 3738.6 |
| 60° | 9605.6 | 9595.6 | 9280.7 | 8562.7 | 7437.1 | 6722.4 | 6031.2 | 4956.9 | 4360.6 | 4052.4 |
| 62.5° | 9652.5 | 9671.5 | 9518.5 | 9044.0 | 8168.5 | 7434.8 | 6639.8 | 5434.9 | 4751.5 | 4407.5 |
| 65° | 9817.8 | 9852.4 | 9821.2 | 9673.8 | 8994.8 | 8269.0 | 7447.1 | 6003.2 | 5178.0 | 4788.3 |
| 67.5° | 10145.0 | 10179.6 | 10193.0 | 10427.5 | 10004.3 | 9308.6 | 8454.4 | 6711.2 | 5677.2 | 5183.6 |
| 70° | 10137.2 | 10127.1 | 10363.9 | 11027.2 | 11268.4 | 10748.0 | 9812.2 | 7582.2 | 6272.4 | 5511.9 |
| 72.5° | 9227.1 | 9146.7 | 9706.1 | 11020.5 | 12320.3 | 12251.0 | 11470.5 | 8705.6 | 6786.0 | 5552.1 |
| 75° | 6922.3 | 6707.9 | 7696.1 | 9931.7 | 12495.6 | 13104.2 | 12524.6 | 9402.4 | 6664.3 | 4905.6 |
| 77.5° | 2960.3 | 2744.8 | 3909.5 | 7352.2 | 11183.5 | 12249.9 | 11557.6 | 8203.1 | 5319.8 | 3243.9 |
| 80° | 775.0 | 773.9 | 1181.4 | 3333.3 | 7605.7 | 9046.2 | 7936.2 | 5297.5 | 3039.6 | 1159.1 |
| 82.5° | 320.5 | 312.7 | 434.4 | 1296.5 | 3716.3 | 5076.4 | 4142.9 | 2362.9 | 1097.7 | 313.8 |
| 85° | 119.5 | 118.4 | 211.1 | 447.8 | 1311.0 | 2093.8 | 1515.3 | 604.1 | 273.6 | 153.0 |
| 87.5° | 33.5 | 32.4 | 45.8 | 155.2 | 319.4 | 484.6 | 259.1 | 99.4 | 77.1 | 60.3 |
| 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-SB3D-950-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2407.6 | 0° | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 | 2407.6 |
| 2412.0 | 2.5° | 2415.4 | 2421.0 | 2431.0 | 2438.8 | 2448.9 | 2460.0 | 2475.7 | 2485.7 | 2495.8 | 2502.5 |
| 2417.6 | 5° | 2425.4 | 2437.7 | 2463.4 | 2489.1 | 2519.2 | 2547.1 | 2579.5 | 2603.0 | 2622.0 | 2627.5 |
| 2437.7 | 7.5° | 2447.8 | 2467.9 | 2511.4 | 2555.0 | 2603.0 | 2648.8 | 2695.7 | 2735.9 | 2768.2 | 2780.5 |
| 2473.4 | 10° | 2486.8 | 2513.6 | 2575.1 | 2636.5 | 2700.1 | 2770.5 | 2830.8 | 2888.8 | 2934.6 | 2953.6 |
| 2515.9 | 12.5° | 2536.0 | 2569.5 | 2649.9 | 2734.7 | 2823.0 | 2920.1 | 2998.3 | 3069.7 | 3126.7 | 3152.4 |
| 2575.1 | 15° | 2599.6 | 2643.2 | 2745.9 | 2859.8 | 2989.3 | 3124.5 | 3223.8 | 3303.1 | 3366.8 | 3398.0 |
| 2636.5 | 17.5° | 2668.9 | 2726.9 | 2856.5 | 3028.4 | 3213.8 | 3391.3 | 3507.5 | 3565.5 | 3631.4 | 3661.6 |
| 2693.4 | 20° | 2735.9 | 2807.3 | 2992.7 | 3242.8 | 3489.6 | 3678.3 | 3772.1 | 3787.8 | 3792.2 | 3795.6 |
| 2747.0 | 22.5° | 2805.1 | 2901.1 | 3163.5 | 3513.1 | 3777.7 | 3908.4 | 3921.8 | 3854.8 | 3761.0 | 3717.4 |
| 2799.5 | 25° | 2881.0 | 3008.3 | 3386.9 | 3811.2 | 4025.6 | 4041.2 | 3938.5 | 3775.5 | 3597.9 | 3516.4 |
| 2841.9 | 27.5° | 2954.7 | 3132.3 | 3654.9 | 4096.0 | 4204.3 | 4066.9 | 3845.8 | 3614.7 | 3400.3 | 3314.3 |
| 2872.1 | 30° | 3028.4 | 3274.1 | 3950.8 | 4345.0 | 4285.8 | 4003.3 | 3699.5 | 3441.6 | 3226.1 | 3135.6 |
| 2898.9 | 32.5° | 3103.2 | 3439.4 | 4291.4 | 4524.8 | 4271.3 | 3868.2 | 3517.5 | 3247.3 | 3057.5 | 2962.5 |
| 2922.3 | 35° | 3188.1 | 3642.6 | 4614.1 | 4623.0 | 4174.1 | 3669.4 | 3277.4 | 3015.0 | 2849.8 | 2773.8 |
| 2950.3 | 37.5° | 3298.7 | 3900.5 | 4898.9 | 4647.6 | 4004.4 | 3377.9 | 2979.3 | 2740.3 | 2604.1 | 2569.5 |
| 2991.6 | 40° | 3436.0 | 4211.0 | 5116.6 | 4608.5 | 3753.1 | 3024.0 | 2653.2 | 2462.3 | 2385.2 | 2393.0 |
| 3047.4 | 42.5° | 3614.7 | 4558.3 | 5269.6 | 4508.0 | 3403.6 | 2658.8 | 2367.4 | 2282.5 | 2319.3 | 2350.6 |
| 3131.2 | 45° | 3846.9 | 4919.0 | 5364.5 | 4337.2 | 3008.3 | 2349.5 | 2198.7 | 2218.8 | 2246.8 | 2250.1 |
| 3266.3 | 47.5° | 4144.0 | 5284.1 | 5427.0 | 4079.2 | 2605.2 | 2131.7 | 2091.5 | 2096.0 | 2090.4 | 2067.0 |
| 3468.4 | 50° | 4514.7 | 5639.2 | 5482.9 | 3737.5 | 2262.4 | 1995.5 | 1941.9 | 1926.3 | 1849.2 | 1773.3 |
| 3737.5 | 52.5° | 4936.8 | 5965.3 | 5506.3 | 3313.2 | 1995.5 | 1881.6 | 1794.5 | 1696.2 | 1552.2 | 1528.7 |
| 4075.9 | 55° | 5405.8 | 6266.8 | 5446.0 | 2791.7 | 1771.0 | 1735.3 | 1603.5 | 1485.2 | 1469.5 | 1449.4 |
| 4521.4 | 57.5° | 5966.4 | 6591.7 | 5323.2 | 2209.9 | 1541.0 | 1564.5 | 1436.0 | 1449.4 | 1421.5 | 1390.3 |
| 5094.3 | 60° | 6579.5 | 6927.9 | 5107.7 | 1679.5 | 1303.2 | 1351.2 | 1392.5 | 1391.4 | 1383.6 | 1357.9 |
| 5698.4 | 62.5° | 7131.1 | 7149.0 | 4683.3 | 1286.4 | 1094.3 | 1185.9 | 1298.7 | 1297.6 | 1290.9 | 1276.4 |
| 6329.3 | 65° | 7459.4 | 7115.5 | 3975.4 | 1012.8 | 922.4 | 1049.7 | 1171.4 | 1180.3 | 1181.4 | 1180.3 |
| 6803.9 | 67.5° | 7401.3 | 6723.5 | 3003.9 | 806.2 | 780.6 | 911.2 | 1045.2 | 1057.5 | 1066.4 | 1068.7 |
| 6864.2 | 70° | 6744.7 | 5862.5 | 1958.6 | 643.2 | 654.4 | 789.5 | 925.7 | 938.0 | 945.8 | 954.8 |
| 5956.3 | 72.5° | 5257.3 | 4310.4 | 1121.1 | 520.4 | 543.8 | 684.5 | 807.4 | 821.9 | 826.3 | 843.1 |
| 4145.1 | 75° | 3203.7 | 2534.9 | 605.2 | 409.8 | 446.7 | 585.1 | 690.1 | 706.9 | 714.7 | 734.8 |
| 2035.7 | 77.5° | 1523.1 | 1097.7 | 345.1 | 319.4 | 359.6 | 477.9 | 582.9 | 601.9 | 580.7 | 591.8 |
| 561.7 | 80° | 514.8 | 407.6 | 217.8 | 243.4 | 274.7 | 373.0 | 466.8 | 485.8 | 441.1 | 438.9 |
| 186.5 | 82.5° | 179.8 | 165.3 | 138.5 | 161.9 | 177.6 | 266.9 | 352.9 | 377.4 | 328.3 | 327.2 |
| 83.8 | 85° | 70.4 | 67.0 | 77.1 | 88.2 | 106.1 | 164.2 | 232.3 | 244.6 | 202.1 | 163.0 |
| 24.6 | 87.5° | 14.5 | 15.6 | 19.0 | 20.1 | 32.4 | 57.0 | 83.8 | 102.7 | 81.5 | 69.2 |
| 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> |
|-------------|
| 2407.6 |
| 2498.0 |
| 2629.8 |
| 2781.6 |
| 2954.7 |
| 3152.4 |
| 3395.8 |
| 3660.5 |
| 3804.5 |
| 3729.7 |
| 3528.7 |
| 3324.3 |
| 3145.7 |
| 2974.8 |
| 2790.6 |
| 2594.0 |
| 2419.8 |
| 2379.6 |
| 2272.4 |
| 2084.8 |
| 1783.3 |
| 1536.5 |
| 1452.8 |
| 1384.7 |
| 1348.9 |
| 1270.8 |
| 1180.3 |
| 1070.9 |
| 959.2 |
| 849.8 |
| 737.0 |
| 582.9 |
| 434.4 |
| 311.6 |
| 160.8 |
| 63.7 |
| 0.0 |

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