

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: P942192

Luminaire Tested: **GALN-SB6A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942192
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-SB6A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24229 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

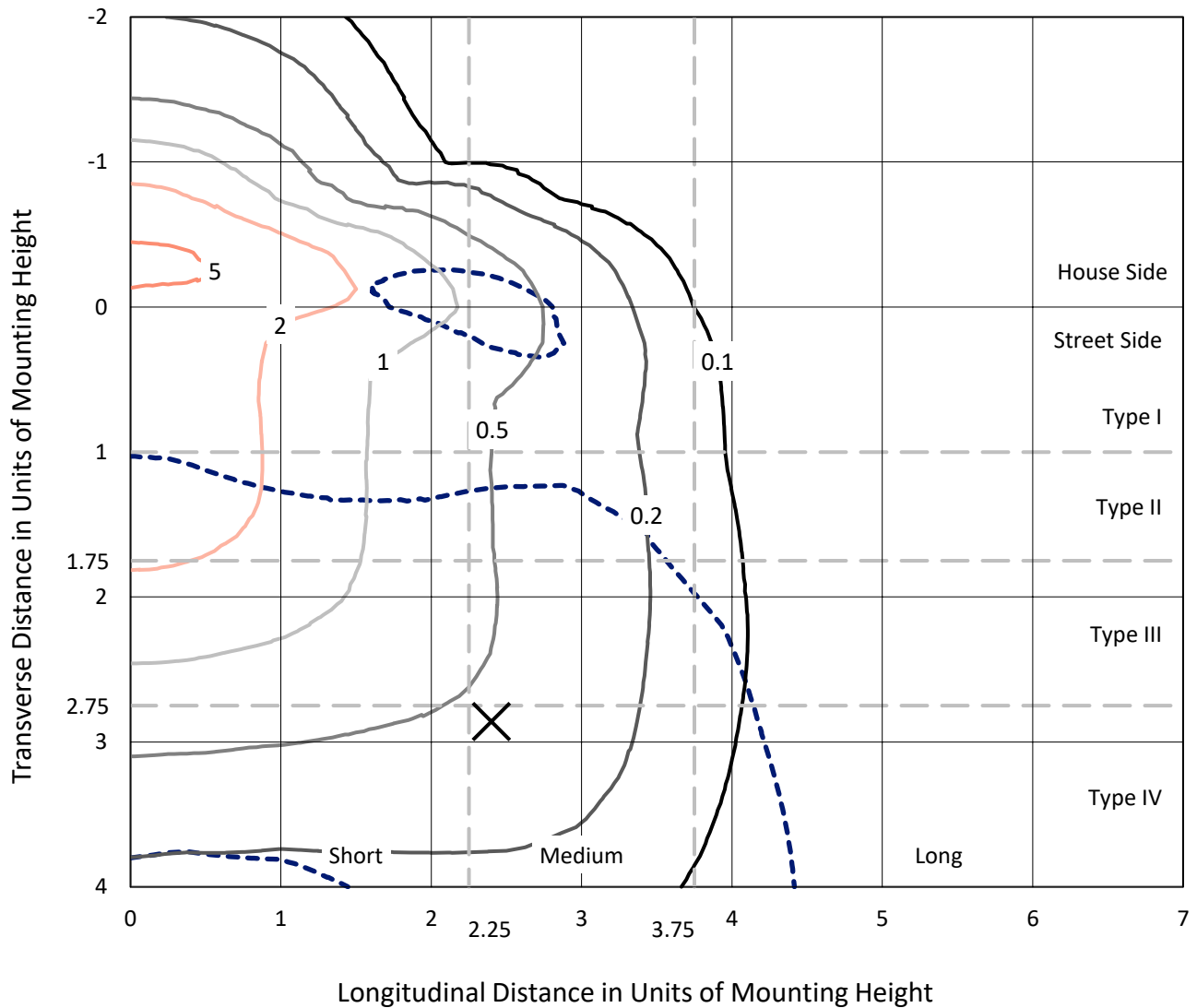
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

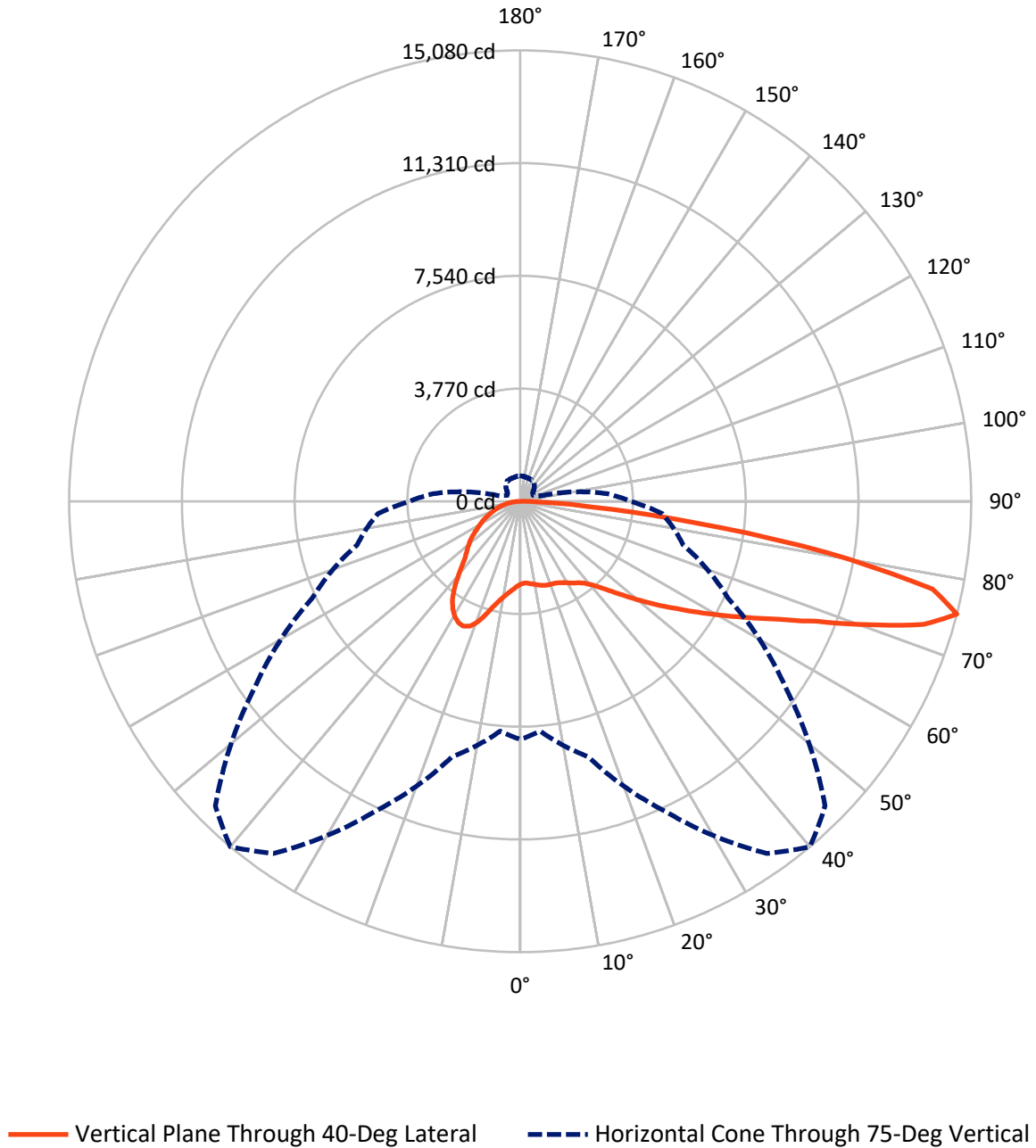
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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 | 7506.9 | 0.0 | 7506.9 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 16722.0 | 0.0 | 16722.0 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 24229.0 | 0.0 | 24229.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.6 | 1.1 |
| 10°-20° | 928.5 | 3.8 |
| 20°-30° | 1695.4 | 7.0 |
| 30°-40° | 2404.6 | 9.9 |
| 40°-50° | 3246.9 | 13.4 |
| 50°-60° | 4368.0 | 18.0 |
| 60°-70° | 5544.0 | 22.9 |
| 70°-80° | 5031.5 | 20.8 |
| 80°-90° | 733.4 | 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° | 24229.0 | 100.0 |
| 0°-180° | 24229.0 | 100.0 |



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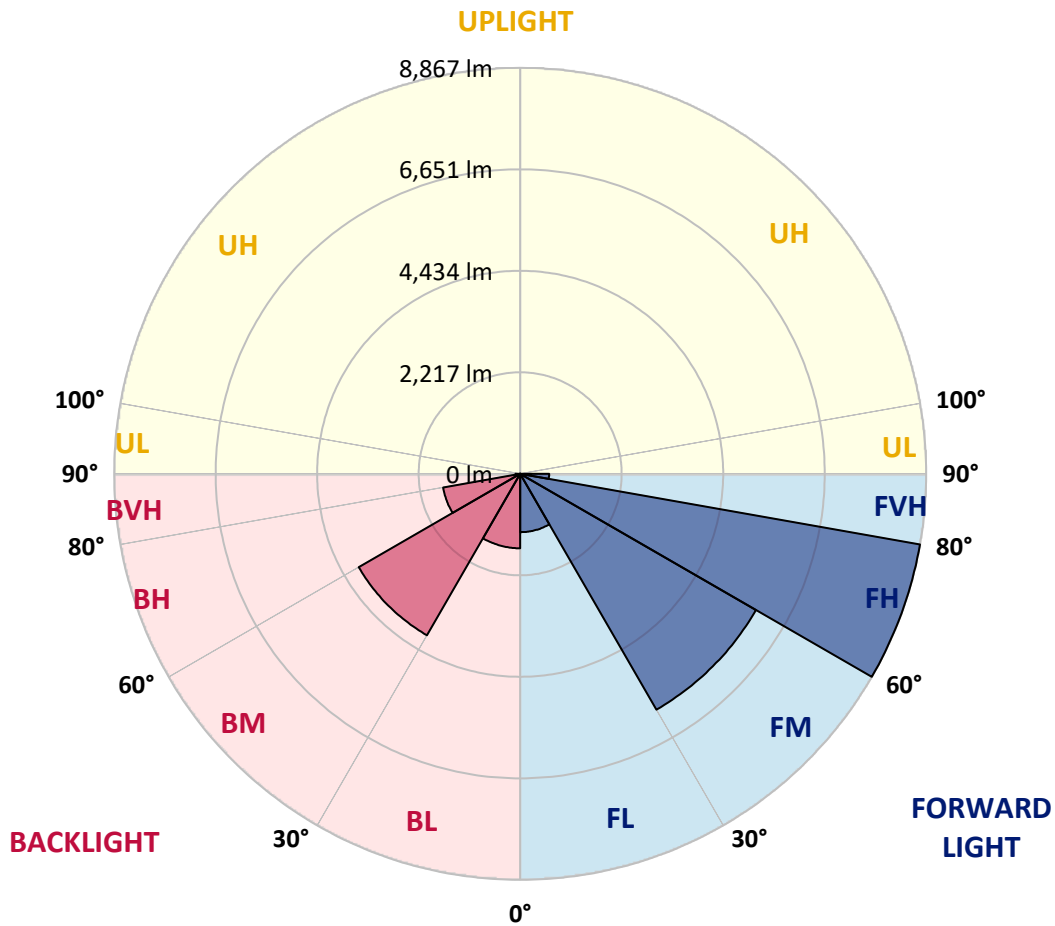
CATALOG NUMBER: GALN-SB6A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1274.5 | 5.3 | | | |
| FM (30°-60°) | 5947.7 | 24.5 | | | |
| FH (60°-80°) | 8867.4 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 632.5 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1626.1 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4071.8 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1708.0 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 101.0 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 |
| 2.5° | 2728.2 | 2743.6 | 2739.8 | 2734.6 | 2734.6 | 2735.9 | 2734.6 | 2743.6 | 2752.6 | 2761.6 |
| 5° | 2756.5 | 2771.9 | 2764.2 | 2757.8 | 2752.6 | 2751.3 | 2747.5 | 2746.2 | 2751.3 | 2762.9 |
| 7.5° | 2811.7 | 2827.2 | 2815.6 | 2804.0 | 2793.7 | 2788.6 | 2783.5 | 2775.8 | 2771.9 | 2778.3 |
| 10° | 2873.4 | 2888.8 | 2874.7 | 2854.1 | 2837.4 | 2831.0 | 2825.9 | 2818.2 | 2813.0 | 2816.9 |
| 12.5° | 2935.1 | 2950.5 | 2931.3 | 2903.0 | 2881.1 | 2877.3 | 2870.9 | 2868.3 | 2867.0 | 2865.7 |
| 15° | 2992.9 | 3005.8 | 2981.4 | 2948.0 | 2924.8 | 2918.4 | 2912.0 | 2915.8 | 2922.3 | 2930.0 |
| 17.5° | 3037.9 | 3050.8 | 3014.8 | 2971.1 | 2949.2 | 2946.7 | 2942.8 | 2955.7 | 2973.7 | 2992.9 |
| 20° | 3079.0 | 3091.9 | 3045.6 | 2986.5 | 2960.8 | 2960.8 | 2962.1 | 2989.1 | 3014.8 | 3043.1 |
| 22.5° | 3136.9 | 3147.1 | 3090.6 | 3009.6 | 2972.4 | 2974.9 | 2985.2 | 3012.2 | 3044.3 | 3082.9 |
| 25° | 3223.0 | 3230.7 | 3161.3 | 3053.3 | 3010.9 | 3018.6 | 3027.6 | 3040.5 | 3071.3 | 3116.3 |
| 27.5° | 3361.8 | 3368.2 | 3276.9 | 3130.4 | 3066.2 | 3079.0 | 3091.9 | 3082.9 | 3097.0 | 3135.6 |
| 30° | 3557.1 | 3560.9 | 3445.3 | 3251.2 | 3160.0 | 3166.4 | 3169.0 | 3131.7 | 3104.7 | 3135.6 |
| 32.5° | 3788.4 | 3787.1 | 3649.6 | 3397.7 | 3266.7 | 3260.2 | 3238.4 | 3165.1 | 3102.2 | 3129.2 |
| 35° | 4146.9 | 4132.8 | 3955.5 | 3603.3 | 3387.5 | 3347.6 | 3296.2 | 3202.4 | 3115.0 | 3122.7 |
| 37.5° | 4740.6 | 4696.9 | 4451.5 | 3940.0 | 3567.4 | 3465.8 | 3390.0 | 3262.8 | 3143.3 | 3120.2 |
| 40° | 5410.2 | 5354.9 | 5085.0 | 4401.4 | 3837.2 | 3674.0 | 3551.9 | 3348.9 | 3189.6 | 3131.7 |
| 42.5° | 6204.3 | 6125.9 | 5835.5 | 4945.0 | 4179.1 | 3942.6 | 3758.8 | 3458.1 | 3257.7 | 3169.0 |
| 45° | 7179.7 | 7075.6 | 6664.4 | 5557.9 | 4609.6 | 4294.7 | 4049.3 | 3623.9 | 3361.8 | 3241.0 |
| 47.5° | 8165.4 | 8191.1 | 7606.3 | 6259.6 | 5126.2 | 4729.1 | 4412.9 | 3873.2 | 3513.4 | 3356.6 |
| 50° | 9212.7 | 9230.7 | 8543.2 | 7037.1 | 5712.2 | 5220.0 | 4821.6 | 4152.1 | 3724.1 | 3521.1 |
| 52.5° | 10030.0 | 10032.6 | 9393.9 | 7850.5 | 6322.6 | 5759.7 | 5262.4 | 4470.8 | 3968.3 | 3739.6 |
| 55° | 10541.5 | 10535.0 | 9990.2 | 8620.3 | 7024.2 | 6326.4 | 5750.7 | 4833.2 | 4266.4 | 3996.6 |
| 57.5° | 10912.8 | 10893.6 | 10401.4 | 9282.1 | 7772.1 | 6995.9 | 6303.3 | 5244.4 | 4618.6 | 4302.4 |
| 60° | 11054.2 | 11042.6 | 10680.2 | 9853.9 | 8558.6 | 7736.1 | 6940.7 | 5704.4 | 5018.2 | 4663.5 |
| 62.5° | 11108.2 | 11130.0 | 10954.0 | 10407.8 | 9400.3 | 8556.0 | 7641.0 | 6254.5 | 5468.0 | 5072.2 |
| 65° | 11298.4 | 11338.2 | 11302.2 | 11132.6 | 10351.3 | 9516.0 | 8570.2 | 6908.6 | 5958.9 | 5510.4 |
| 67.5° | 11674.9 | 11714.7 | 11730.2 | 12000.0 | 11513.0 | 10712.4 | 9729.3 | 7723.3 | 6533.3 | 5965.3 |
| 70° | 11665.9 | 11654.3 | 11926.8 | 12690.1 | 12967.7 | 12368.8 | 11291.9 | 8725.6 | 7218.3 | 6343.1 |
| 72.5° | 10618.6 | 10526.0 | 11169.9 | 12682.4 | 14178.2 | 14098.5 | 13200.3 | 10018.4 | 7809.4 | 6389.4 |
| 75° | 7966.2 | 7719.4 | 8856.7 | 11429.4 | 14380.0 | 15080.3 | 14413.4 | 10820.3 | 7669.3 | 5645.3 |
| 77.5° | 3406.7 | 3158.7 | 4499.0 | 8460.9 | 12870.0 | 14097.3 | 13300.5 | 9440.1 | 6122.1 | 3733.1 |
| 80° | 891.8 | 890.6 | 1359.6 | 3835.9 | 8752.6 | 10410.4 | 9133.0 | 6096.4 | 3498.0 | 1333.9 |
| 82.5° | 368.8 | 359.8 | 499.9 | 1492.0 | 4276.7 | 5841.9 | 4767.6 | 2719.2 | 1263.2 | 361.1 |
| 85° | 137.5 | 136.2 | 242.9 | 515.3 | 1508.7 | 2409.5 | 1743.8 | 695.2 | 314.8 | 176.1 |
| 87.5° | 38.6 | 37.3 | 52.7 | 178.6 | 367.5 | 557.7 | 298.1 | 114.4 | 88.7 | 69.4 |
| 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-SB6A-830-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2770.6 | 0° | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 | 2770.6 |
| 2775.8 | 2.5° | 2779.6 | 2786.0 | 2797.6 | 2806.6 | 2818.2 | 2831.0 | 2849.0 | 2860.6 | 2872.1 | 2879.8 |
| 2782.2 | 5° | 2791.2 | 2805.3 | 2834.9 | 2864.4 | 2899.1 | 2931.3 | 2968.5 | 2995.5 | 3017.4 | 3023.8 |
| 2805.3 | 7.5° | 2816.9 | 2840.0 | 2890.1 | 2940.2 | 2995.5 | 3048.2 | 3102.2 | 3148.4 | 3185.7 | 3199.8 |
| 2846.4 | 10° | 2861.9 | 2892.7 | 2963.4 | 3034.1 | 3107.3 | 3188.3 | 3257.7 | 3324.5 | 3377.2 | 3399.0 |
| 2895.3 | 12.5° | 2918.4 | 2957.0 | 3049.5 | 3147.1 | 3248.7 | 3360.5 | 3450.4 | 3532.7 | 3598.2 | 3627.8 |
| 2963.4 | 15° | 2991.7 | 3041.8 | 3160.0 | 3291.1 | 3440.1 | 3595.6 | 3710.0 | 3801.2 | 3874.5 | 3910.5 |
| 3034.1 | 17.5° | 3071.3 | 3138.1 | 3287.2 | 3485.1 | 3698.4 | 3902.8 | 4036.4 | 4103.2 | 4179.1 | 4213.8 |
| 3099.6 | 20° | 3148.4 | 3230.7 | 3444.0 | 3731.9 | 4015.9 | 4233.0 | 4341.0 | 4359.0 | 4364.1 | 4368.0 |
| 3161.3 | 22.5° | 3228.1 | 3338.6 | 3640.6 | 4042.8 | 4347.4 | 4497.8 | 4513.2 | 4436.1 | 4328.1 | 4278.0 |
| 3221.7 | 25° | 3315.5 | 3462.0 | 3897.6 | 4386.0 | 4632.7 | 4650.7 | 4532.5 | 4344.8 | 4140.5 | 4046.7 |
| 3270.5 | 27.5° | 3400.3 | 3604.6 | 4206.0 | 4713.6 | 4838.3 | 4680.2 | 4425.8 | 4159.8 | 3913.0 | 3814.1 |
| 3305.2 | 30° | 3485.1 | 3767.8 | 4546.6 | 5000.2 | 4932.1 | 4607.0 | 4257.4 | 3960.6 | 3712.6 | 3608.5 |
| 3336.1 | 32.5° | 3571.2 | 3958.0 | 4938.5 | 5207.1 | 4915.4 | 4451.5 | 4048.0 | 3737.0 | 3518.5 | 3409.3 |
| 3363.0 | 35° | 3668.9 | 4191.9 | 5309.9 | 5320.2 | 4803.6 | 4222.8 | 3771.7 | 3469.7 | 3279.5 | 3192.1 |
| 3395.2 | 37.5° | 3796.1 | 4488.8 | 5637.6 | 5348.5 | 4608.3 | 3887.3 | 3428.6 | 3153.6 | 2996.8 | 2957.0 |
| 3442.7 | 40° | 3954.2 | 4846.0 | 5888.2 | 5303.5 | 4319.1 | 3480.0 | 3053.3 | 2833.6 | 2744.9 | 2753.9 |
| 3507.0 | 42.5° | 4159.8 | 5245.7 | 6064.3 | 5187.8 | 3916.9 | 3059.8 | 2724.4 | 2626.7 | 2669.1 | 2705.1 |
| 3603.3 | 45° | 4427.1 | 5660.7 | 6173.5 | 4991.2 | 3462.0 | 2703.8 | 2530.3 | 2553.4 | 2585.6 | 2589.4 |
| 3758.8 | 47.5° | 4768.9 | 6081.0 | 6245.5 | 4694.4 | 2998.1 | 2453.2 | 2406.9 | 2412.1 | 2405.7 | 2378.7 |
| 3991.4 | 50° | 5195.6 | 6489.6 | 6309.7 | 4301.1 | 2603.6 | 2296.4 | 2234.7 | 2216.8 | 2128.1 | 2040.7 |
| 4301.1 | 52.5° | 5681.3 | 6864.9 | 6336.7 | 3812.8 | 2296.4 | 2165.3 | 2065.1 | 1952.0 | 1786.3 | 1759.3 |
| 4690.5 | 55° | 6221.0 | 7211.8 | 6267.3 | 3212.7 | 2038.1 | 1997.0 | 1845.4 | 1709.1 | 1691.2 | 1668.0 |
| 5203.3 | 57.5° | 6866.1 | 7585.8 | 6125.9 | 2543.2 | 1773.4 | 1800.4 | 1652.6 | 1668.0 | 1635.9 | 1599.9 |
| 5862.5 | 60° | 7571.7 | 7972.6 | 5877.9 | 1932.8 | 1499.7 | 1554.9 | 1602.5 | 1601.2 | 1592.2 | 1562.6 |
| 6557.7 | 62.5° | 8206.5 | 8227.0 | 5389.6 | 1480.4 | 1259.4 | 1364.7 | 1494.5 | 1493.3 | 1485.5 | 1468.8 |
| 7283.8 | 65° | 8584.3 | 8188.5 | 4574.9 | 1165.6 | 1061.5 | 1208.0 | 1348.0 | 1358.3 | 1359.6 | 1358.3 |
| 7830.0 | 67.5° | 8517.5 | 7737.4 | 3456.8 | 927.8 | 898.3 | 1048.6 | 1202.8 | 1217.0 | 1227.2 | 1229.8 |
| 7899.3 | 70° | 7761.8 | 6746.6 | 2254.0 | 740.2 | 753.1 | 908.5 | 1065.3 | 1079.5 | 1088.5 | 1098.7 |
| 6854.6 | 72.5° | 6050.1 | 4960.4 | 1290.2 | 598.8 | 625.8 | 787.8 | 929.1 | 945.8 | 951.0 | 970.2 |
| 4770.2 | 75° | 3686.9 | 2917.1 | 696.5 | 471.6 | 514.0 | 673.4 | 794.2 | 813.5 | 822.4 | 845.6 |
| 2342.7 | 77.5° | 1752.8 | 1263.2 | 397.1 | 367.5 | 413.8 | 550.0 | 670.8 | 692.7 | 668.2 | 681.1 |
| 646.4 | 80° | 592.4 | 469.1 | 250.6 | 280.1 | 316.1 | 429.2 | 537.2 | 559.0 | 507.6 | 505.0 |
| 214.6 | 82.5° | 206.9 | 190.2 | 159.3 | 186.3 | 204.3 | 307.1 | 406.1 | 434.4 | 377.8 | 376.5 |
| 96.4 | 85° | 81.0 | 77.1 | 88.7 | 101.5 | 122.1 | 188.9 | 267.3 | 281.4 | 232.6 | 187.6 |
| 28.3 | 87.5° | 16.7 | 18.0 | 21.8 | 23.1 | 37.3 | 65.5 | 96.4 | 118.2 | 93.8 | 79.7 |
| 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> |
|--------------|
| 2770.6 |
| 2874.7 |
| 3026.3 |
| 3201.1 |
| 3400.3 |
| 3627.8 |
| 3907.9 |
| 4212.5 |
| 4378.2 |
| 4292.1 |
| 4060.8 |
| 3825.7 |
| 3620.1 |
| 3423.4 |
| 3211.4 |
| 2985.2 |
| 2784.8 |
| 2738.5 |
| 2615.1 |
| 2399.2 |
| 2052.3 |
| 1768.3 |
| 1671.9 |
| 1593.5 |
| 1552.4 |
| 1462.4 |
| 1358.3 |
| 1232.4 |
| 1103.9 |
| 977.9 |
| <i>848.1</i> |
| 670.8 |
| 499.9 |
| 358.5 |
| 185.1 |
| 73.2 |
| 0.0 |

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