

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: P947475

Luminaire Tested: **GALN-SB2D-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947475
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-SB2D-760-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21488 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

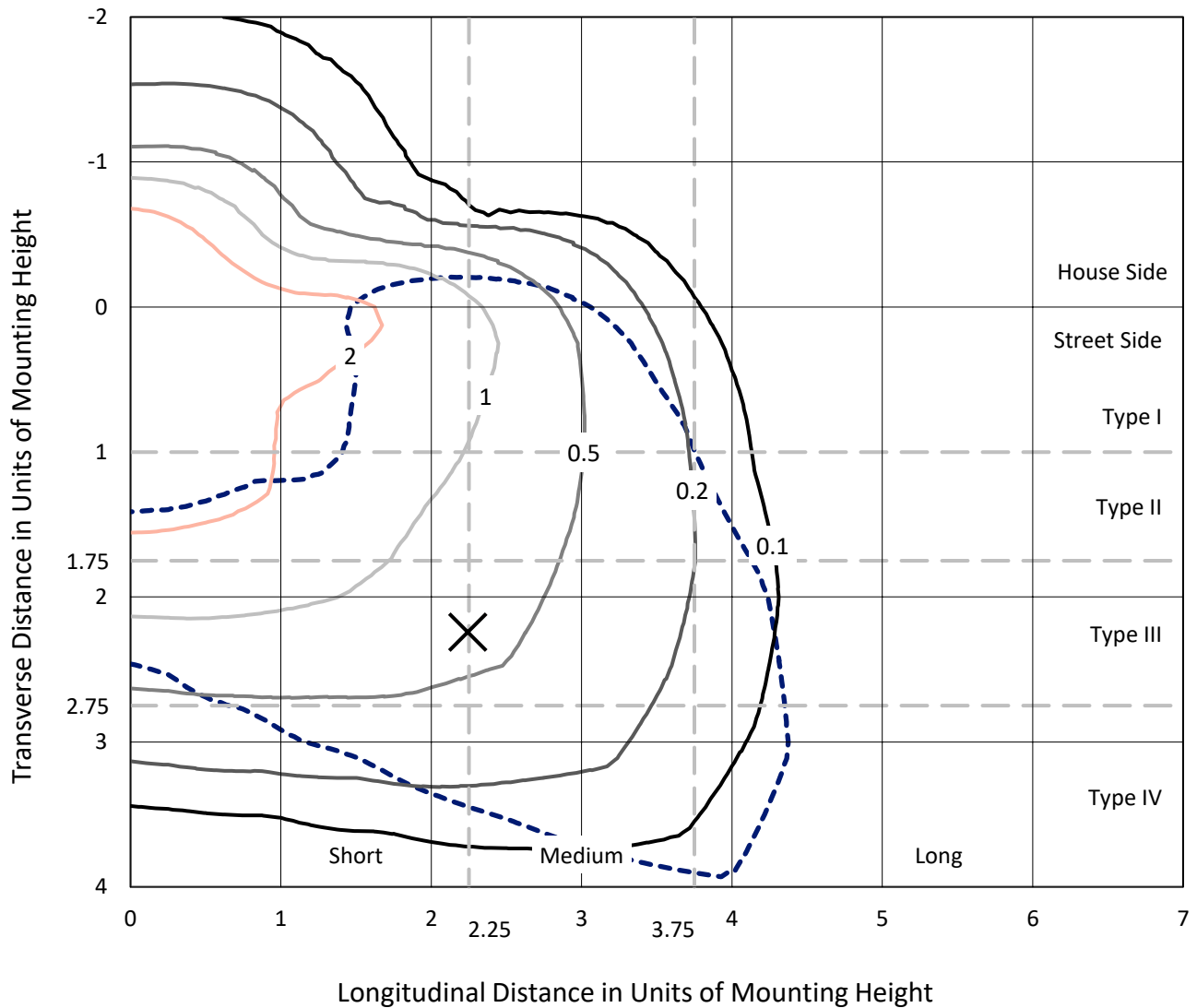
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

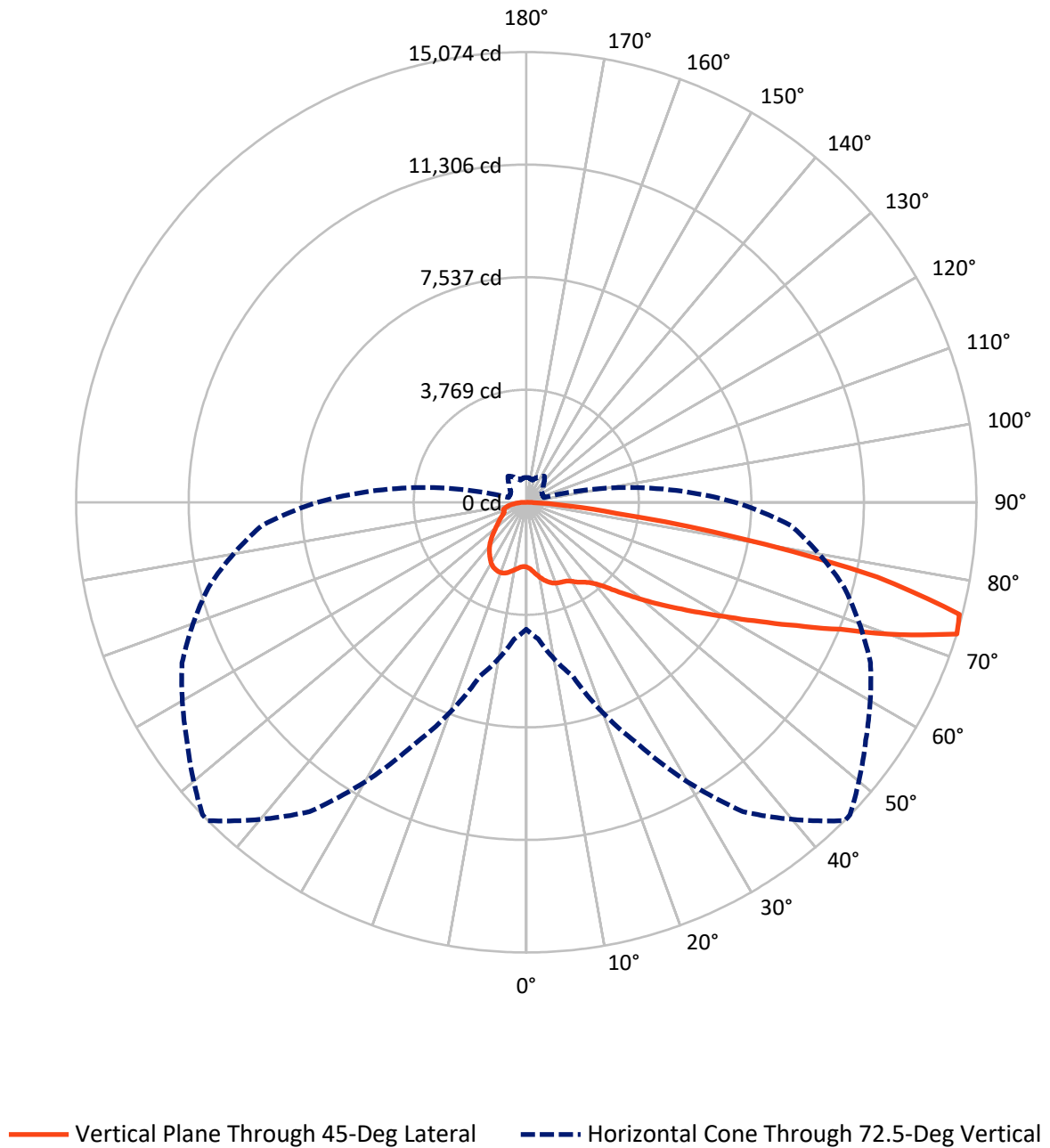
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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 | 4857.7 | 0.0 | 4857.7 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 16630.3 | 0.0 | 16630.3 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 21488.0 | 0.0 | 21488.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 220.6 | 1.0 |
| 10°-20° | 735.6 | 3.4 |
| 20°-30° | 1279.6 | 6.0 |
| 30°-40° | 1834.4 | 8.5 |
| 40°-50° | 2583.0 | 12.0 |
| 50°-60° | 3956.4 | 18.4 |
| 60°-70° | 5731.4 | 26.7 |
| 70°-80° | 4576.9 | 21.3 |
| 80°-90° | 570.0 | 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° | 21488.0 | 100.0 |
| 0°-180° | 21488.0 | 100.0 |

Coefficient of Utilization



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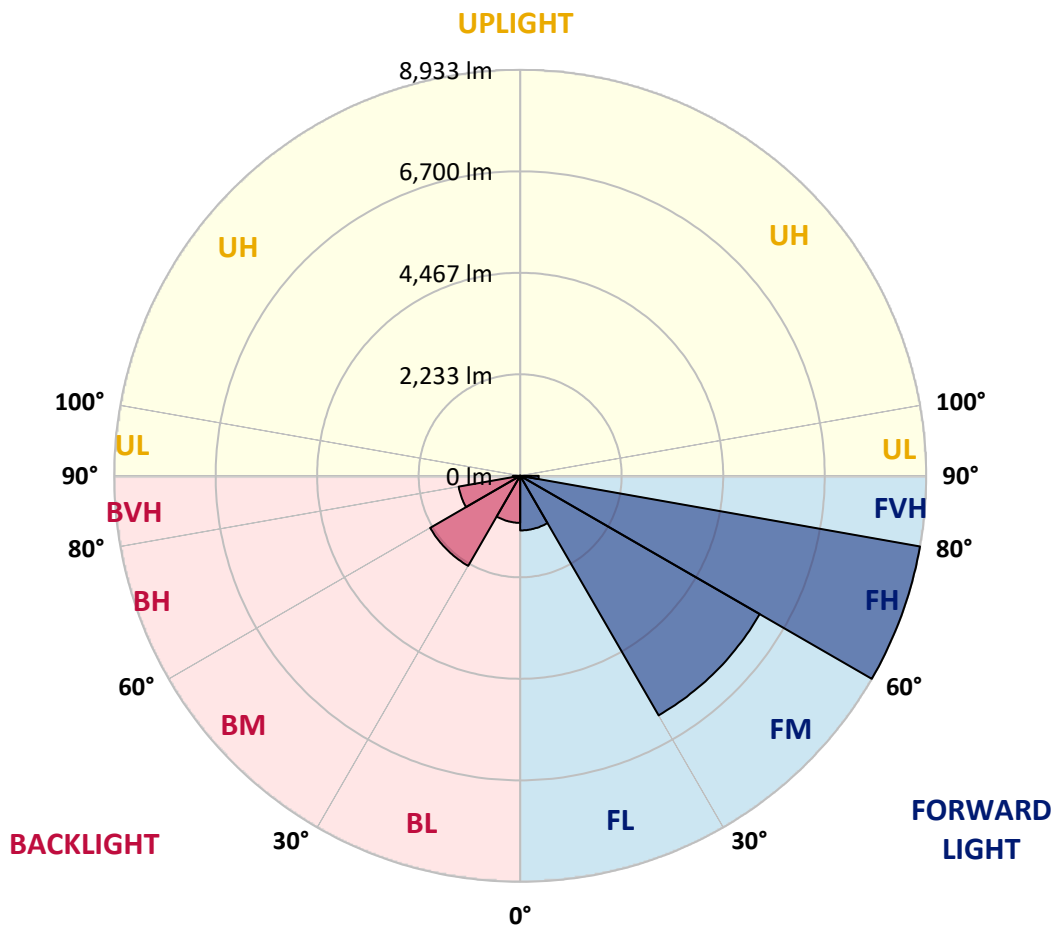
CATALOG NUMBER: GALN-SB2D-760-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1201.6 | 5.6 | | | |
| FM (30°-60°) | 6086.5 | 28.3 | | | |
| FH (60°-80°) | 8933.2 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 408.9 | 1.9 | | | G3/500 |
| BL (0°-30°) | 1034.2 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2287.3 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1375.1 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 161.1 | 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 |
| 2.5° | 2252.6 | 2267.3 | 2253.8 | 2241.3 | 2235.6 | 2220.9 | 2219.8 | 2210.7 | 2205.1 | 2189.2 |
| 5° | 2410.0 | 2429.2 | 2406.6 | 2381.7 | 2359.0 | 2322.8 | 2318.3 | 2292.2 | 2262.8 | 2228.8 |
| 7.5° | 2587.7 | 2604.7 | 2578.6 | 2541.3 | 2501.7 | 2441.7 | 2440.5 | 2393.0 | 2346.6 | 2288.8 |
| 10° | 2742.8 | 2765.4 | 2730.3 | 2679.4 | 2629.6 | 2561.6 | 2553.7 | 2499.4 | 2440.5 | 2365.8 |
| 12.5° | 2879.7 | 2895.6 | 2861.6 | 2799.4 | 2741.6 | 2673.7 | 2663.5 | 2603.5 | 2537.9 | 2453.0 |
| 15° | 2988.4 | 3008.8 | 2963.5 | 2896.7 | 2835.6 | 2768.8 | 2759.7 | 2705.4 | 2639.8 | 2550.3 |
| 17.5° | 3059.7 | 3076.7 | 3030.3 | 2955.6 | 2896.7 | 2841.2 | 2834.5 | 2789.2 | 2731.4 | 2640.9 |
| 20° | 3086.9 | 3105.0 | 3056.3 | 2980.5 | 2926.1 | 2883.1 | 2879.7 | 2846.9 | 2807.3 | 2724.6 |
| 22.5° | 3114.0 | 3131.0 | 3067.6 | 2988.4 | 2940.9 | 2913.7 | 2912.6 | 2891.0 | 2875.2 | 2807.3 |
| 25° | 3223.8 | 3228.4 | 3143.5 | 3029.1 | 2961.2 | 2937.5 | 2936.3 | 2935.2 | 2942.0 | 2888.8 |
| 27.5° | 3318.9 | 3317.8 | 3245.4 | 3137.8 | 3032.5 | 2982.7 | 2981.6 | 2992.9 | 3014.4 | 2970.3 |
| 30° | 3458.2 | 3445.7 | 3359.7 | 3247.6 | 3151.4 | 3074.4 | 3067.6 | 3057.4 | 3074.4 | 3039.3 |
| 32.5° | 3753.6 | 3714.0 | 3574.8 | 3375.5 | 3249.9 | 3191.0 | 3182.0 | 3118.6 | 3125.4 | 3103.9 |
| 35° | 4177.0 | 4124.9 | 3939.3 | 3617.8 | 3372.1 | 3288.4 | 3283.8 | 3203.5 | 3189.9 | 3170.6 |
| 37.5° | 4680.7 | 4616.2 | 4400.0 | 3968.7 | 3582.7 | 3401.6 | 3394.8 | 3322.3 | 3266.9 | 3246.5 |
| 40° | 5186.7 | 5105.2 | 4926.3 | 4396.6 | 3892.8 | 3590.6 | 3569.1 | 3459.3 | 3395.9 | 3361.9 |
| 42.5° | 5678.0 | 5610.0 | 5457.2 | 4876.5 | 4275.4 | 3866.8 | 3819.3 | 3631.4 | 3583.8 | 3552.1 |
| 45° | 6112.6 | 6051.5 | 5939.4 | 5389.3 | 4723.7 | 4242.6 | 4196.2 | 3889.4 | 3874.7 | 3874.7 |
| 47.5° | 6465.8 | 6452.2 | 6333.4 | 5912.3 | 5252.3 | 4670.5 | 4590.1 | 4248.3 | 4287.9 | 4349.0 |
| 50° | 6857.5 | 6820.1 | 6693.3 | 6427.3 | 5873.8 | 5160.6 | 5095.0 | 4688.6 | 4836.9 | 5004.4 |
| 52.5° | 7217.4 | 7237.8 | 7096.3 | 6963.9 | 6575.6 | 5707.4 | 5591.9 | 5208.2 | 5528.5 | 5805.9 |
| 55° | 7587.6 | 7588.7 | 7549.1 | 7531.0 | 7311.4 | 6311.9 | 6185.1 | 5833.0 | 6342.4 | 6686.5 |
| 57.5° | 7935.1 | 7937.4 | 7996.2 | 8155.8 | 8164.9 | 7009.2 | 6865.4 | 6600.5 | 7246.9 | 7597.8 |
| 60° | 8245.3 | 8261.1 | 8421.9 | 8795.4 | 8915.4 | 7808.3 | 7672.5 | 7507.2 | 8181.9 | 8535.0 |
| 62.5° | 8349.4 | 8407.1 | 8764.8 | 9295.7 | 9656.8 | 8788.6 | 8655.0 | 8556.6 | 9164.4 | 9492.7 |
| 65° | 8172.8 | 8305.3 | 8996.9 | 9708.9 | 10419.8 | 9953.4 | 9821.0 | 9713.4 | 10185.5 | 10494.5 |
| 67.5° | 7739.3 | 7910.2 | 8983.3 | 10142.4 | 11345.7 | 11354.8 | 11231.4 | 10979.0 | 11280.1 | 11398.9 |
| 70° | 6597.1 | 6852.9 | 8192.1 | 10304.3 | 12408.6 | 13271.2 | 13152.3 | 12502.6 | 12372.4 | 11797.4 |
| 72.5° | 4250.5 | 4594.7 | 6032.3 | 8972.0 | 12645.2 | 15074.4 | 15067.6 | 13877.9 | 12717.7 | 11023.1 |
| 75° | 1550.8 | 1761.3 | 2802.8 | 5631.5 | 10614.5 | 14982.7 | 15026.9 | 13642.5 | 11609.5 | 8514.7 |
| 77.5° | 564.9 | 618.1 | 914.6 | 2164.3 | 6528.1 | 12021.5 | 12113.2 | 10906.5 | 8263.4 | 4273.2 |
| 80° | 296.6 | 326.0 | 468.6 | 839.9 | 2797.1 | 7139.3 | 7283.1 | 6481.7 | 3883.8 | 1287.0 |
| 82.5° | 164.1 | 177.7 | 262.6 | 456.2 | 1259.9 | 3052.9 | 3139.0 | 2560.5 | 1366.3 | 545.6 |
| 85° | 88.3 | 94.0 | 123.4 | 249.0 | 615.8 | 1058.4 | 1082.2 | 765.2 | 544.5 | 320.3 |
| 87.5° | 26.0 | 31.7 | 40.8 | 79.2 | 241.1 | 237.7 | 243.4 | 151.7 | 215.1 | 161.9 |
| 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-SB2D-760-U-T4W

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2167.7 | 0° | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 | 2167.7 |
| 2184.7 | 2.5° | 2177.9 | 2174.5 | 2162.1 | 2156.4 | 2149.6 | 2148.5 | 2154.1 | 2155.3 | 2156.4 | 2157.5 |
| 2209.6 | 5° | 2198.3 | 2187.0 | 2175.6 | 2168.9 | 2171.1 | 2172.2 | 2183.6 | 2191.5 | 2197.2 | 2201.7 |
| 2256.0 | 7.5° | 2237.9 | 2228.8 | 2209.6 | 2208.5 | 2211.9 | 2222.1 | 2236.8 | 2254.9 | 2265.1 | 2273.0 |
| 2316.0 | 10° | 2296.8 | 2279.8 | 2257.1 | 2260.5 | 2267.3 | 2282.0 | 2312.6 | 2327.3 | 2344.3 | 2359.0 |
| 2389.6 | 12.5° | 2356.8 | 2342.0 | 2316.0 | 2318.3 | 2329.6 | 2355.6 | 2385.1 | 2403.2 | 2414.5 | 2425.8 |
| 2468.8 | 15° | 2434.9 | 2408.8 | 2380.5 | 2380.5 | 2400.9 | 2429.2 | 2442.8 | 2457.5 | 2464.3 | 2476.7 |
| 2553.7 | 17.5° | 2515.2 | 2481.3 | 2443.9 | 2441.7 | 2466.6 | 2480.1 | 2488.1 | 2490.3 | 2492.6 | 2506.2 |
| 2636.4 | 20° | 2595.6 | 2558.3 | 2505.0 | 2500.5 | 2506.2 | 2503.9 | 2502.8 | 2500.5 | 2503.9 | 2520.9 |
| 2721.3 | 22.5° | 2674.8 | 2631.8 | 2558.3 | 2537.9 | 2522.0 | 2500.5 | 2499.4 | 2498.3 | 2500.5 | 2517.5 |
| 2812.9 | 25° | 2767.7 | 2715.6 | 2617.1 | 2556.0 | 2502.8 | 2473.4 | 2476.7 | 2477.9 | 2480.1 | 2493.7 |
| 2908.0 | 27.5° | 2868.4 | 2810.7 | 2671.4 | 2550.3 | 2454.1 | 2433.7 | 2428.1 | 2431.5 | 2439.4 | 2460.9 |
| 3003.1 | 30° | 2969.2 | 2901.2 | 2721.3 | 2527.7 | 2393.0 | 2364.7 | 2346.6 | 2354.5 | 2379.4 | 2400.9 |
| 3085.7 | 32.5° | 3060.8 | 2992.9 | 2760.9 | 2477.9 | 2314.9 | 2270.7 | 2247.0 | 2257.1 | 2282.0 | 2290.0 |
| 3177.4 | 35° | 3168.4 | 3091.4 | 2777.9 | 2398.6 | 2230.0 | 2162.1 | 2130.4 | 2115.7 | 2128.1 | 2120.2 |
| 3285.0 | 37.5° | 3288.4 | 3208.0 | 2775.6 | 2294.5 | 2130.4 | 2052.3 | 2008.1 | 1952.6 | 1926.6 | 1899.4 |
| 3443.5 | 40° | 3466.1 | 3350.6 | 2748.4 | 2168.9 | 2007.0 | 1935.7 | 1856.4 | 1762.5 | 1703.6 | 1650.4 |
| 3699.3 | 42.5° | 3708.3 | 3548.7 | 2698.6 | 2030.8 | 1867.7 | 1801.0 | 1693.4 | 1583.6 | 1490.8 | 1402.5 |
| 4087.5 | 45° | 4069.4 | 3807.9 | 2636.4 | 1883.6 | 1717.2 | 1651.5 | 1535.0 | 1411.6 | 1306.3 | 1193.1 |
| 4638.8 | 47.5° | 4590.1 | 4156.6 | 2577.5 | 1716.1 | 1558.7 | 1498.7 | 1393.5 | 1279.1 | 1154.6 | 1044.8 |
| 5435.7 | 50° | 5305.5 | 4656.9 | 2523.2 | 1553.1 | 1402.5 | 1357.2 | 1273.5 | 1156.9 | 1031.2 | 942.9 |
| 6369.6 | 52.5° | 6215.6 | 5337.2 | 2500.5 | 1395.7 | 1256.5 | 1239.5 | 1172.7 | 1064.1 | 945.2 | 870.5 |
| 7458.5 | 55° | 7260.5 | 6151.1 | 2500.5 | 1245.2 | 1128.6 | 1134.2 | 1087.8 | 987.1 | 884.1 | 817.3 |
| 8581.5 | 57.5° | 8326.8 | 6975.2 | 2455.2 | 1105.9 | 1019.9 | 1043.7 | 1014.2 | 926.0 | 833.1 | 764.1 |
| 9762.1 | 60° | 9309.3 | 7665.7 | 2271.9 | 979.2 | 923.7 | 961.0 | 941.8 | 866.0 | 752.8 | 695.0 |
| 10749.2 | 62.5° | 10064.3 | 8055.1 | 1918.7 | 878.4 | 844.4 | 887.5 | 877.3 | 786.7 | 738.0 | 714.3 |
| 11559.7 | 65° | 10442.4 | 7991.7 | 1467.0 | 789.0 | 777.7 | 844.4 | 822.9 | 819.5 | 781.1 | 753.9 |
| 11823.4 | 67.5° | 10210.4 | 7446.1 | 1064.1 | 723.3 | 739.2 | 804.8 | 887.5 | 901.0 | 829.7 | 776.5 |
| 11080.8 | 70° | 9192.7 | 6459.0 | 792.4 | 661.1 | 690.5 | 806.0 | 1012.0 | 942.9 | 813.9 | 751.6 |
| 8887.1 | 72.5° | 6993.3 | 4816.5 | 614.7 | 595.4 | 627.1 | 811.6 | 1067.4 | 923.7 | 768.6 | 830.9 |
| 5536.5 | 75° | 3999.2 | 2644.3 | 493.5 | 515.0 | 547.9 | 758.4 | 1039.1 | 873.9 | 733.5 | 762.9 |
| 2193.8 | 77.5° | 1524.8 | 1016.5 | 407.5 | 435.8 | 440.3 | 662.2 | 993.9 | 870.5 | 698.4 | 681.4 |
| 657.7 | 80° | 528.6 | 397.3 | 337.3 | 346.4 | 340.7 | 588.6 | 953.1 | 757.3 | 571.6 | 511.7 |
| 271.7 | 82.5° | 216.2 | 198.1 | 267.1 | 255.8 | 242.2 | 457.3 | 769.7 | 619.2 | 467.5 | 413.2 |
| 131.3 | 85° | 94.0 | 125.6 | 176.6 | 155.1 | 140.4 | 317.0 | 616.9 | 524.1 | 395.1 | 340.7 |
| 43.0 | 87.5° | 19.2 | 47.5 | 74.7 | 70.2 | 72.4 | 211.7 | 438.1 | 372.4 | 279.6 | 209.4 |
| 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> |
|--------------|
| 2167.7 |
| 2162.1 |
| 2203.9 |
| 2275.3 |
| 2355.6 |
| 2430.3 |
| 2481.3 |
| 2510.7 |
| 2527.7 |
| 2528.8 |
| 2511.8 |
| 2482.4 |
| 2424.7 |
| 2318.3 |
| 2145.1 |
| 1916.4 |
| 1653.8 |
| 1394.6 |
| 1179.5 |
| 1032.4 |
| 937.3 |
| 864.8 |
| 810.5 |
| 752.8 |
| 686.0 |
| 706.3 |
| 744.8 |
| 767.5 |
| 741.4 |
| <i>824.1</i> |
| 762.9 |
| 621.5 |
| 494.7 |
| 408.6 |
| 339.6 |
| 164.1 |
| 0.0 |

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