

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: P528609

Luminaire Tested: **GALN-SA3D-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-722-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10325 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

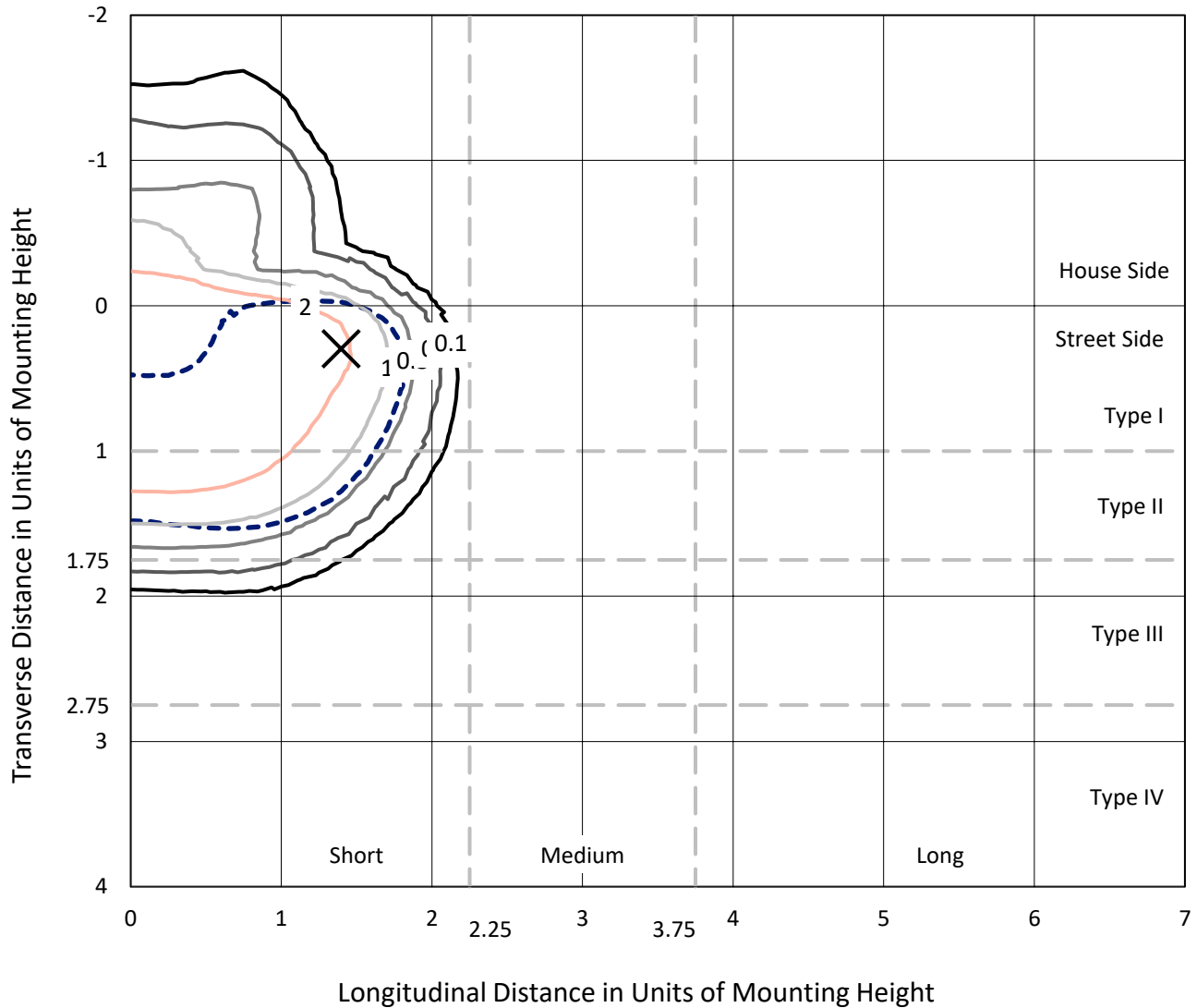
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

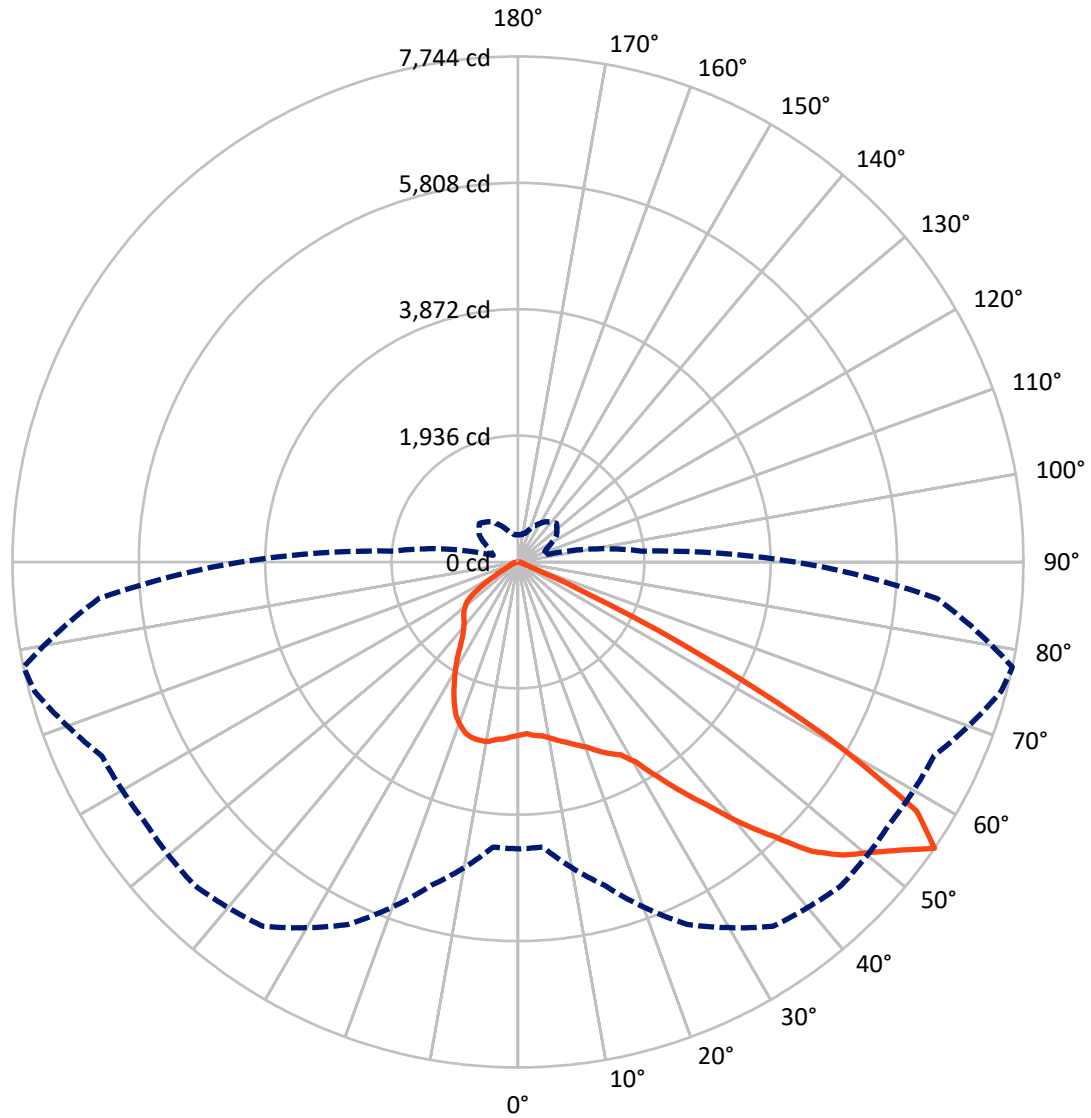
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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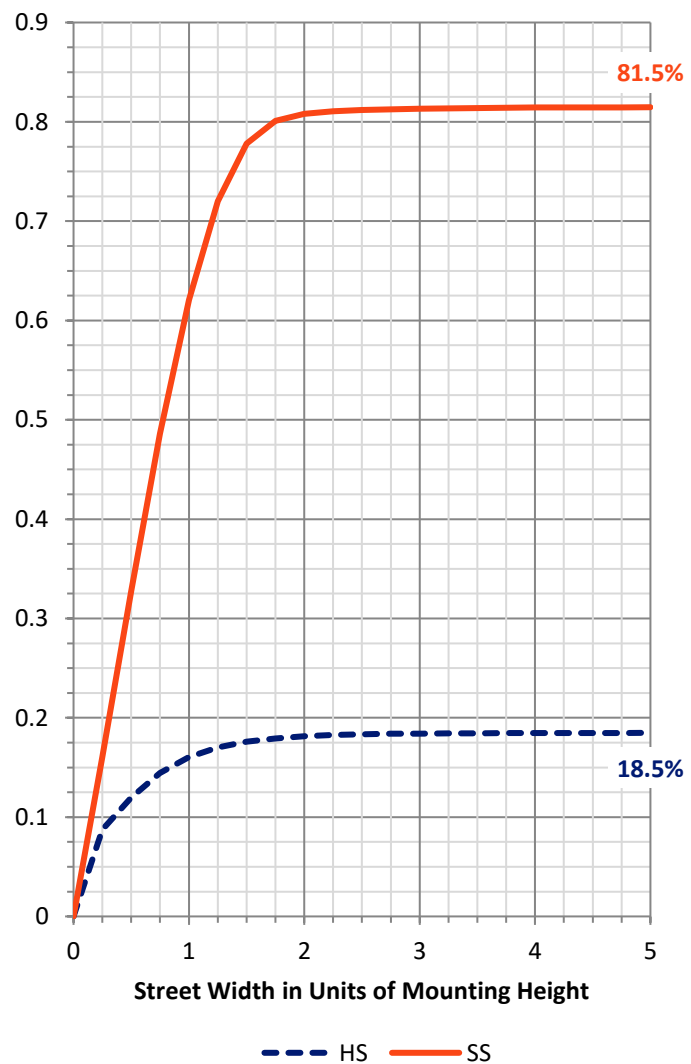
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1917.7 | 0.0 | 1917.7 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 8407.2 | 0.0 | 8407.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 10325.0 | 0.0 | 10325.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.7 | 2.3 |
| 10°-20° | 626.4 | 6.1 |
| 20°-30° | 1098.0 | 10.6 |
| 30°-40° | 1810.5 | 17.5 |
| 40°-50° | 2634.5 | 25.5 |
| 50°-60° | 2985.2 | 28.9 |
| 60°-70° | 853.5 | 8.3 |
| 70°-80° | 66.3 | 0.6 |
| 80°-90° | 13.8 | 0.1 |
| 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° | 10325.0 | 100.0 |
| 0°-180° | 10325.0 | 100.0 |



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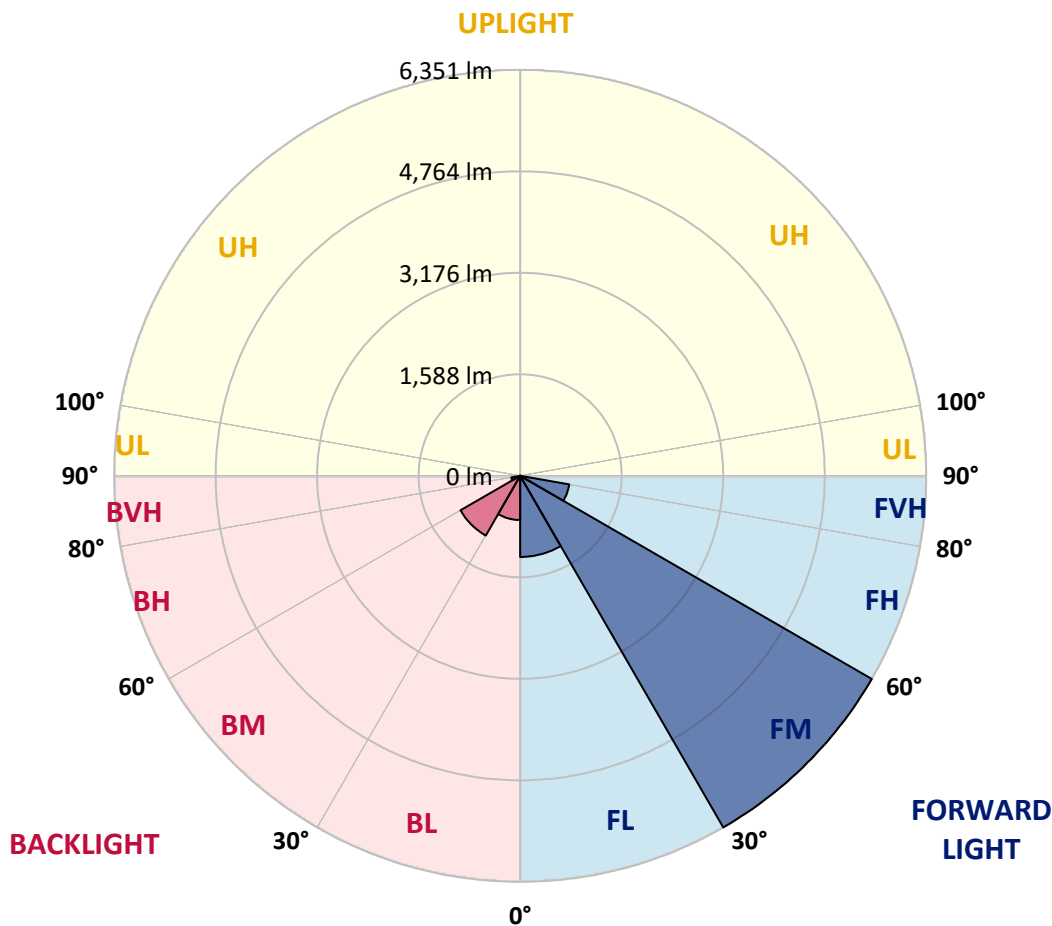
CATALOG NUMBER: GALN-SA3D-722-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1269.2 | 12.3 | | | |
| FM (30°-60°) | 6351.5 | 61.5 | | | |
| FH (60°-80°) | 779.8 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 6.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 691.9 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 1078.8 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 140.0 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.1 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 |
| 2.5° | 2495.8 | 2519.8 | 2523.5 | 2553.0 | 2551.2 | 2601.0 | 2615.8 | 2617.6 | 2650.9 | 2634.3 | 2676.7 |
| 5° | 2425.7 | 2412.7 | 2407.2 | 2458.9 | 2473.7 | 2518.0 | 2554.9 | 2577.0 | 2645.3 | 2669.3 | 2713.6 |
| 7.5° | 2362.9 | 2362.9 | 2366.6 | 2412.7 | 2407.2 | 2464.4 | 2503.2 | 2571.5 | 2671.2 | 2691.5 | 2745.0 |
| 10° | 2302.0 | 2279.8 | 2307.5 | 2355.5 | 2396.1 | 2422.0 | 2503.2 | 2567.8 | 2684.1 | 2743.2 | 2817.0 |
| 12.5° | 2270.6 | 2281.7 | 2285.4 | 2320.4 | 2364.7 | 2442.3 | 2486.6 | 2593.6 | 2776.4 | 2811.5 | 2890.9 |
| 15° | 2468.1 | 2446.0 | 2392.4 | 2361.0 | 2398.0 | 2434.9 | 2545.6 | 2654.6 | 2824.4 | 2874.2 | 2962.8 |
| 17.5° | 2697.0 | 2678.6 | 2634.3 | 2549.3 | 2466.3 | 2534.6 | 2621.3 | 2721.0 | 2876.1 | 2949.9 | 3081.0 |
| 20° | 2996.1 | 2966.5 | 2922.2 | 2756.1 | 2684.1 | 2610.3 | 2702.6 | 2820.7 | 2961.0 | 3027.5 | 3162.2 |
| 22.5° | 3352.4 | 3352.4 | 3252.7 | 3051.5 | 2901.9 | 2831.8 | 2870.5 | 2938.8 | 3055.1 | 3145.6 | 3278.5 |
| 25° | 3723.4 | 3712.3 | 3621.9 | 3413.3 | 3160.4 | 3077.3 | 3121.6 | 3169.6 | 3201.0 | 3250.8 | 3339.4 |
| 27.5° | 4148.0 | 4083.4 | 3968.9 | 3738.2 | 3514.8 | 3354.2 | 3402.2 | 3359.7 | 3321.0 | 3346.8 | 3474.2 |
| 30° | 4436.0 | 4476.6 | 4330.7 | 4109.2 | 3898.8 | 3719.7 | 3728.9 | 3692.0 | 3514.8 | 3551.7 | 3627.4 |
| 32.5° | 4735.0 | 4760.9 | 4679.6 | 4557.8 | 4347.4 | 4138.8 | 4063.1 | 4031.7 | 3898.8 | 3915.4 | 3841.5 |
| 35° | 4984.2 | 5034.1 | 4962.1 | 4908.5 | 4847.6 | 4679.6 | 4471.0 | 4572.6 | 4358.4 | 4317.8 | 4125.8 |
| 37.5° | 5213.1 | 5198.4 | 5283.3 | 5227.9 | 5215.0 | 5096.8 | 4867.9 | 4888.2 | 4744.2 | 4735.0 | 4513.5 |
| 40° | 5418.0 | 5421.7 | 5538.0 | 5563.9 | 5512.2 | 5301.7 | 4969.5 | 5130.1 | 5246.4 | 5257.4 | 4973.2 |
| 42.5° | 5587.9 | 5637.7 | 5737.4 | 5946.0 | 5868.5 | 5517.7 | 5074.7 | 5250.1 | 5682.0 | 5750.3 | 5408.8 |
| 45° | 5735.6 | 5837.1 | 5960.8 | 6147.2 | 6102.9 | 5824.2 | 5336.8 | 5497.4 | 6147.2 | 6326.3 | 5818.6 |
| 47.5° | 5744.8 | 5877.7 | 6012.5 | 6289.4 | 6344.7 | 5988.5 | 5608.2 | 5888.8 | 6516.4 | 6710.2 | 6117.7 |
| 50° | 5707.9 | 5778.0 | 6047.5 | 6348.4 | 6474.0 | 6256.1 | 5988.5 | 6217.4 | 6874.5 | 6996.4 | 6269.1 |
| 52.5° | 5270.4 | 5323.9 | 5864.8 | 6403.8 | 6706.6 | 6558.9 | 6492.4 | 6675.2 | 7240.1 | 7330.5 | 6411.2 |
| 55° | 4393.5 | 4384.3 | 5128.2 | 6125.1 | 6813.6 | 7007.5 | 6966.8 | 7031.5 | 7662.8 | 7744.0 | 6446.3 |
| 57.5° | 3005.3 | 3173.3 | 3815.7 | 5100.5 | 6158.3 | 6902.2 | 6944.7 | 6837.6 | 7169.9 | 7201.3 | 5619.3 |
| 60° | 1620.8 | 1690.9 | 2207.8 | 3404.0 | 4688.9 | 5624.8 | 5735.6 | 5541.7 | 5515.9 | 5427.3 | 4011.4 |
| 62.5° | 644.3 | 679.3 | 972.8 | 1685.4 | 2554.9 | 3418.8 | 3656.9 | 3577.6 | 3407.7 | 3175.1 | 2076.8 |
| 65° | 306.4 | 328.6 | 483.7 | 788.2 | 1133.5 | 1425.1 | 1663.3 | 1737.1 | 1281.1 | 1153.8 | 684.9 |
| 67.5° | 208.6 | 225.2 | 352.6 | 450.4 | 404.3 | 422.7 | 550.1 | 511.3 | 300.9 | 256.6 | 190.1 |
| 70° | 158.8 | 169.8 | 282.4 | 306.4 | 180.9 | 127.4 | 142.1 | 132.9 | 123.7 | 125.5 | 123.7 |
| 72.5° | 112.6 | 121.8 | 206.8 | 180.9 | 79.4 | 59.1 | 75.7 | 90.5 | 90.5 | 90.5 | 88.6 |
| 75° | 68.3 | 77.5 | 120.0 | 70.1 | 31.4 | 31.4 | 48.0 | 60.9 | 64.6 | 66.5 | 62.8 |
| 77.5° | 35.1 | 44.3 | 40.6 | 20.3 | 20.3 | 24.0 | 35.1 | 42.5 | 46.2 | 46.2 | 44.3 |
| 80° | 7.4 | 7.4 | 7.4 | 11.1 | 20.3 | 25.8 | 35.1 | 38.8 | 44.3 | 44.3 | 40.6 |
| 82.5° | 0.0 | 1.8 | 5.5 | 11.1 | 18.5 | 24.0 | 33.2 | 38.8 | 44.3 | 46.2 | 42.5 |
| 85° | 0.0 | 1.8 | 3.7 | 7.4 | 12.9 | 14.8 | 12.9 | 11.1 | 11.1 | 11.1 | 11.1 |
| 87.5° | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 90° | 0.0 | 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-SA3D-722-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 | 2654.6 |
| 2.5° | 2680.4 | 2685.9 | 2676.7 | 2674.9 | 2667.5 | 2689.6 | 2636.1 | 2623.2 | 2656.4 | 2625.0 | 2632.4 |
| 5° | 2715.5 | 2728.4 | 2711.8 | 2684.1 | 2643.5 | 2580.7 | 2527.2 | 2457.0 | 2423.8 | 2399.8 | 2396.1 |
| 7.5° | 2741.3 | 2750.6 | 2733.9 | 2645.3 | 2523.5 | 2364.7 | 2246.6 | 2159.8 | 2091.5 | 2071.2 | 2038.0 |
| 10° | 2846.5 | 2848.4 | 2765.3 | 2569.6 | 2331.5 | 2122.9 | 1942.0 | 1809.1 | 1740.8 | 1698.3 | 1679.9 |
| 12.5° | 2916.7 | 2913.0 | 2745.0 | 2420.1 | 2102.6 | 1825.7 | 1619.0 | 1458.3 | 1395.6 | 1375.3 | 1362.4 |
| 15° | 3005.3 | 2985.0 | 2697.0 | 2266.9 | 1807.2 | 1508.2 | 1321.7 | 1211.0 | 1205.4 | 1192.5 | 1205.4 |
| 17.5° | 3075.5 | 3018.2 | 2626.9 | 1988.2 | 1524.8 | 1242.4 | 1120.5 | 1127.9 | 1142.7 | 1155.6 | 1157.4 |
| 20° | 3189.9 | 3071.8 | 2466.3 | 1744.5 | 1262.7 | 1065.1 | 1063.3 | 1096.5 | 1133.5 | 1148.2 | 1163.0 |
| 22.5° | 3276.7 | 3093.9 | 2294.6 | 1484.2 | 1048.5 | 993.2 | 1024.5 | 1074.4 | 1102.1 | 1116.8 | 1139.0 |
| 25° | 3308.1 | 3033.0 | 2065.7 | 1223.9 | 945.2 | 959.9 | 1007.9 | 1041.2 | 1076.2 | 1092.8 | 1083.6 |
| 27.5° | 3339.4 | 3001.6 | 1792.5 | 1007.9 | 889.8 | 937.8 | 978.4 | 1011.6 | 1022.7 | 1044.8 | 1059.6 |
| 30° | 3415.1 | 2892.7 | 1547.0 | 871.3 | 862.1 | 923.0 | 952.5 | 963.6 | 993.2 | 1006.1 | 1006.1 |
| 32.5° | 3476.0 | 2850.2 | 1286.7 | 806.7 | 858.4 | 930.4 | 934.1 | 934.1 | 937.8 | 928.5 | 924.9 |
| 35° | 3601.6 | 2704.4 | 1054.1 | 767.9 | 856.5 | 932.2 | 941.5 | 910.1 | 825.2 | 791.9 | 782.7 |
| 37.5° | 3756.6 | 2610.3 | 882.4 | 758.7 | 869.5 | 954.4 | 969.2 | 851.0 | 740.3 | 686.7 | 677.5 |
| 40° | 3944.9 | 2543.8 | 769.8 | 755.0 | 899.0 | 1006.1 | 961.8 | 804.9 | 660.9 | 583.3 | 579.6 |
| 42.5° | 4164.6 | 2482.9 | 694.1 | 753.2 | 935.9 | 1059.6 | 954.4 | 766.1 | 579.6 | 528.0 | 535.3 |
| 45° | 4340.0 | 2449.7 | 642.4 | 740.3 | 948.8 | 1091.0 | 959.9 | 697.8 | 546.4 | 513.2 | 516.9 |
| 47.5° | 4476.6 | 2379.5 | 600.0 | 718.1 | 947.0 | 1102.1 | 910.1 | 670.1 | 529.8 | 539.0 | 548.3 |
| 50° | 4480.3 | 2285.4 | 546.4 | 670.1 | 919.3 | 1081.8 | 852.9 | 644.3 | 526.1 | 564.9 | 583.3 |
| 52.5° | 4430.4 | 2152.4 | 489.2 | 601.8 | 854.7 | 1011.6 | 801.2 | 633.2 | 509.5 | 505.8 | 528.0 |
| 55° | 4253.2 | 1903.2 | 393.2 | 487.3 | 721.8 | 834.4 | 755.0 | 612.9 | 459.7 | 417.2 | 420.9 |
| 57.5° | 3437.3 | 1364.2 | 289.8 | 348.9 | 511.3 | 611.0 | 681.2 | 603.6 | 413.5 | 354.4 | 356.3 |
| 60° | 2128.5 | 773.5 | 212.3 | 238.1 | 315.7 | 371.0 | 552.0 | 561.2 | 369.2 | 299.1 | 295.4 |
| 62.5° | 1092.8 | 382.1 | 164.3 | 168.0 | 193.8 | 217.8 | 378.4 | 470.7 | 334.1 | 284.3 | 284.3 |
| 65° | 365.5 | 188.3 | 144.0 | 129.2 | 129.2 | 134.8 | 228.9 | 326.7 | 282.4 | 238.1 | 238.1 |
| 67.5° | 156.9 | 140.3 | 125.5 | 112.6 | 103.4 | 97.8 | 129.2 | 190.1 | 210.4 | 180.9 | 173.5 |
| 70° | 121.8 | 118.1 | 108.9 | 94.1 | 81.2 | 73.8 | 75.7 | 97.8 | 120.0 | 116.3 | 112.6 |
| 72.5° | 90.5 | 90.5 | 86.8 | 73.8 | 62.8 | 53.5 | 49.8 | 51.7 | 57.2 | 59.1 | 60.9 |
| 75° | 62.8 | 64.6 | 64.6 | 57.2 | 46.2 | 38.8 | 33.2 | 27.7 | 22.2 | 18.5 | 16.6 |
| 77.5° | 42.5 | 44.3 | 48.0 | 42.5 | 35.1 | 25.8 | 20.3 | 14.8 | 9.2 | 3.7 | 3.7 |
| 80° | 36.9 | 42.5 | 46.2 | 42.5 | 36.9 | 27.7 | 20.3 | 11.1 | 5.5 | 0.0 | 0.0 |
| 82.5° | 38.8 | 42.5 | 48.0 | 40.6 | 35.1 | 25.8 | 20.3 | 12.9 | 5.5 | 1.8 | 0.0 |
| 85° | 9.2 | 9.2 | 11.1 | 12.9 | 16.6 | 18.5 | 14.8 | 9.2 | 5.5 | 1.8 | 0.0 |
| 87.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 1.8 | 1.8 | 1.8 | 1.8 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)