

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: STREETWORKS

Report Number: P852465

Luminaire Tested: **GLAN-SB4A-740-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18799 lumens
Efficiency: N/A
Efficacy: 164.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

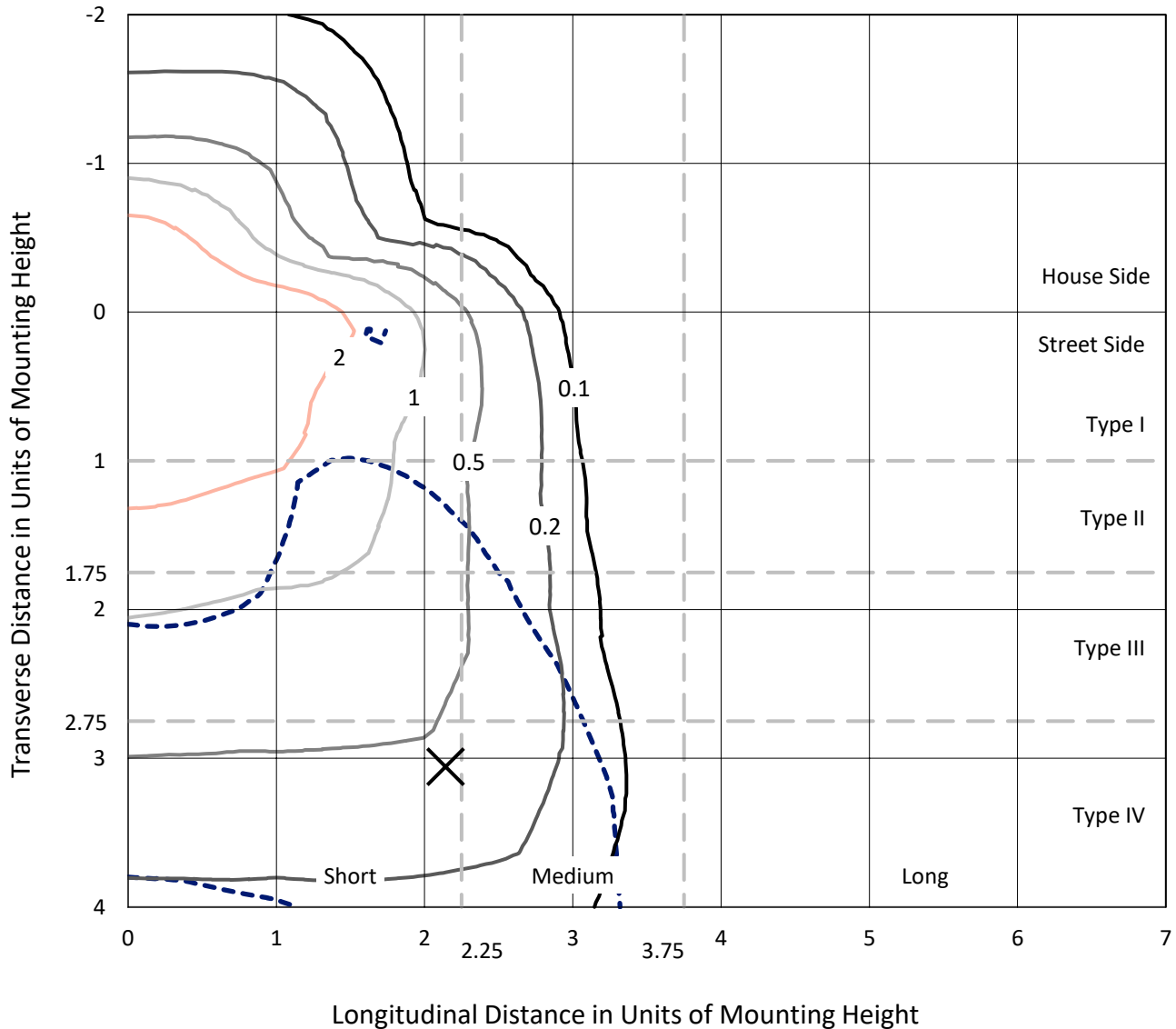
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

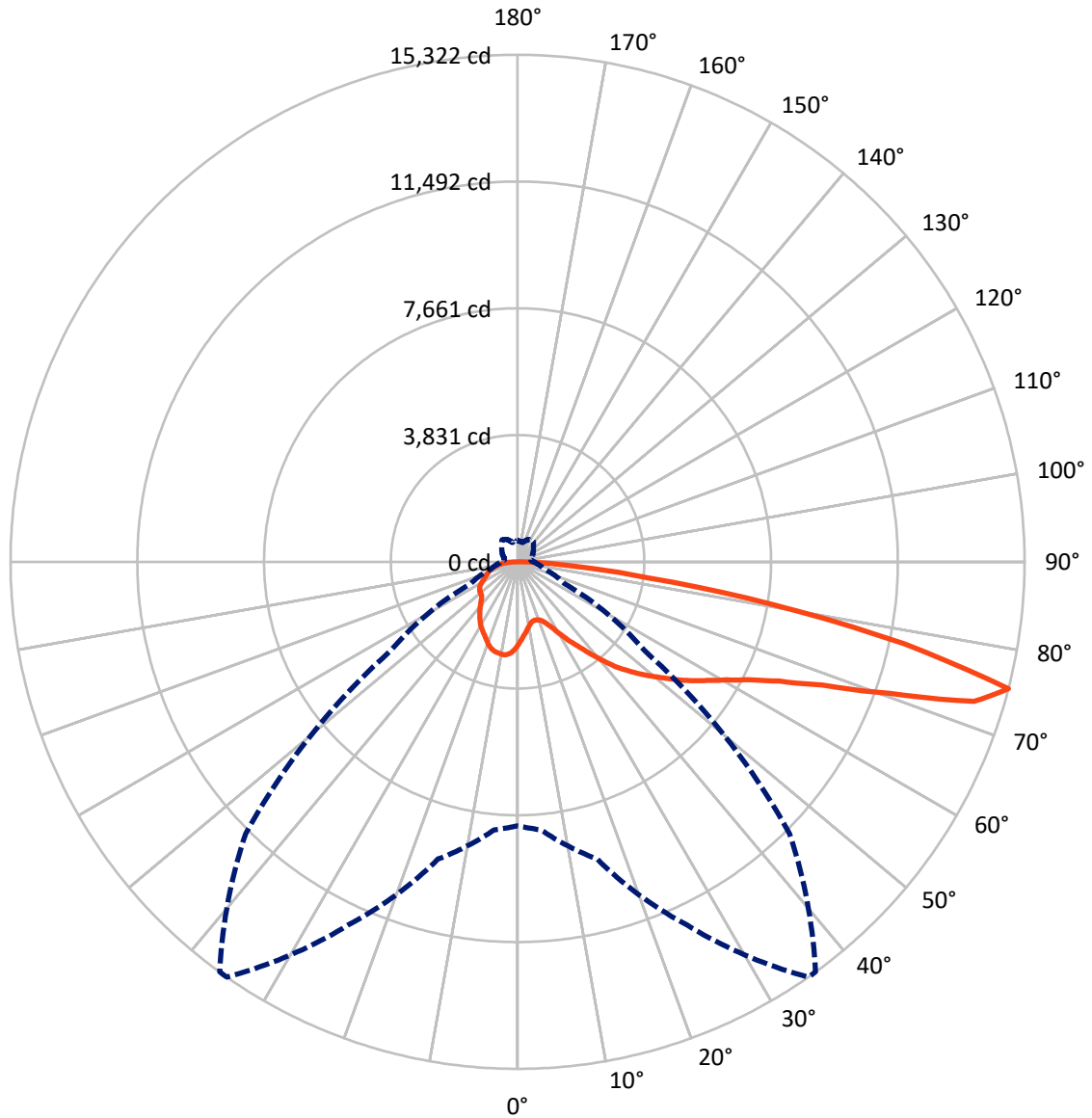
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GLAN-SB4A-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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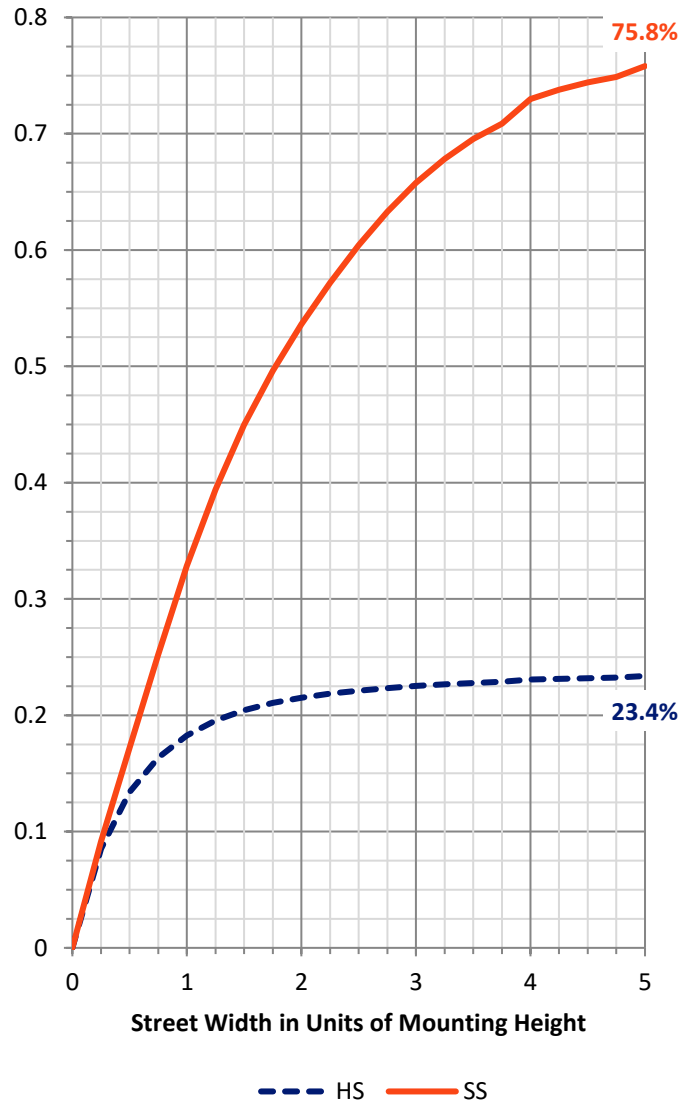
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4473.7 | 0.0 | 4473.7 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 14325.3 | 0.0 | 14325.3 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 18799.0 | 0.0 | 18799.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 237.2 | 1.3 |
| 10°-20° | 684.1 | 3.6 |
| 20°-30° | 1148.8 | 6.1 |
| 30°-40° | 1785.5 | 9.5 |
| 40°-50° | 2650.1 | 14.1 |
| 50°-60° | 3658.6 | 19.5 |
| 60°-70° | 4438.7 | 23.6 |
| 70°-80° | 3668.3 | 19.5 |
| 80°-90° | 527.6 | 2.8 |
| 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° | 18799.0 | 100.0 |
| 0°-180° | 18799.0 | 100.0 |

Coefficient of Utilization



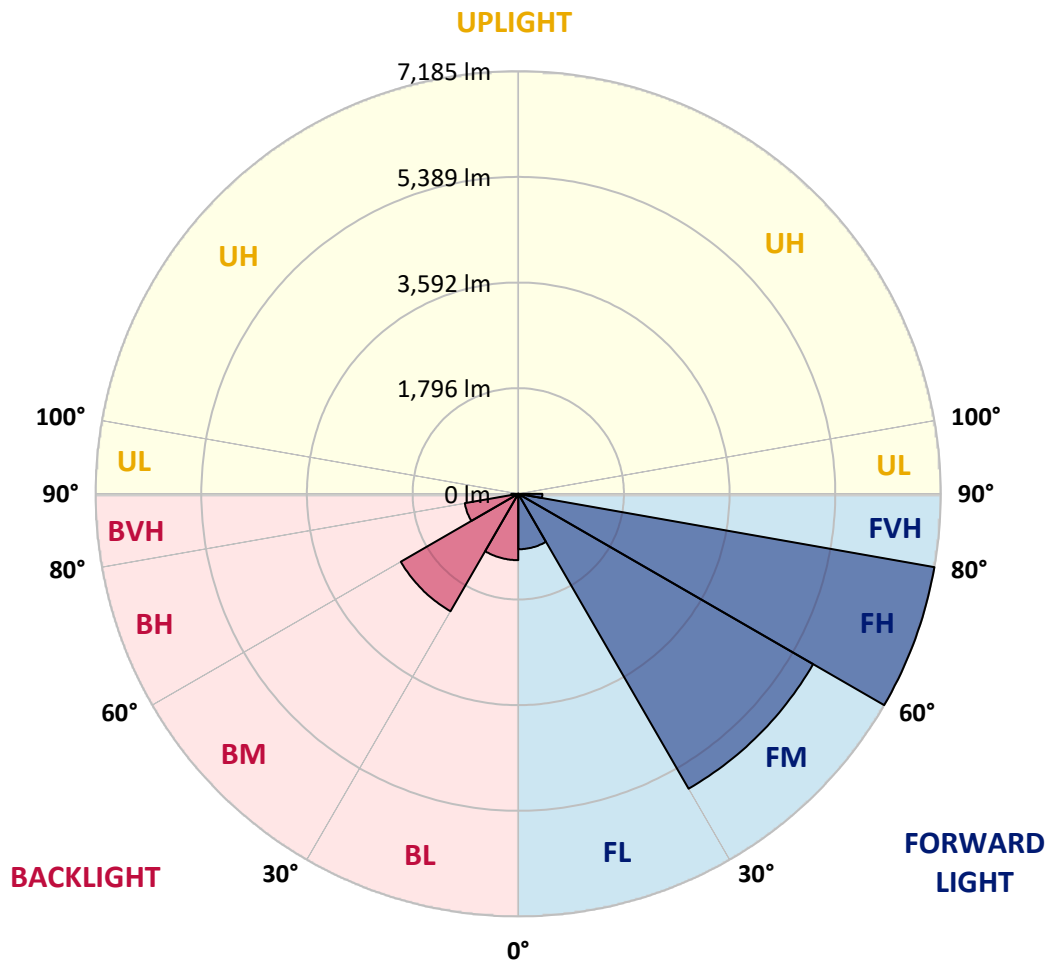
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 942.7 | 5.0 | | | |
| FM (30°-60°) | 5789.1 | 30.8 | | | |
| FH (60°-80°) | 7184.7 | 38.2 | | | G3/7500 |
| FVH (80°-90°) | 408.8 | 2.2 | | | G3/500 |
| BL (0°-30°) | 1127.4 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2305.1 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 922.3 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 118.8 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 |
| 2.5° | 2310.0 | 2324.2 | 2330.3 | 2327.2 | 2342.5 | 2340.5 | 2361.8 | 2388.2 | 2424.8 | 2460.4 |
| 5° | 2132.1 | 2147.4 | 2160.6 | 2172.8 | 2202.2 | 2211.4 | 2244.9 | 2295.7 | 2362.8 | 2430.9 |
| 7.5° | 1966.5 | 1979.7 | 2000.0 | 2022.4 | 2072.2 | 2081.3 | 2137.2 | 2216.5 | 2310.0 | 2409.6 |
| 10° | 1831.3 | 1844.5 | 1865.9 | 1891.3 | 1953.3 | 1964.4 | 2035.6 | 2141.3 | 2263.2 | 2389.2 |
| 12.5° | 1773.4 | 1777.4 | 1789.6 | 1815.0 | 1868.9 | 1876.0 | 1954.3 | 2075.2 | 2217.5 | 2374.0 |
| 15° | 1770.3 | 1778.5 | 1779.5 | 1792.7 | 1837.4 | 1840.5 | 1912.6 | 2032.5 | 2189.0 | 2370.9 |
| 17.5° | 1800.8 | 1806.9 | 1797.8 | 1805.9 | 1843.5 | 1848.6 | 1905.5 | 2012.2 | 2179.9 | 2384.2 |
| 20° | 1882.1 | 1887.2 | 1859.8 | 1848.6 | 1876.0 | 1880.1 | 1936.0 | 2025.4 | 2189.0 | 2411.6 |
| 22.5° | 2054.9 | 2057.9 | 1990.9 | 1945.1 | 1947.2 | 1949.2 | 1998.0 | 2079.3 | 2224.6 | 2461.4 |
| 25° | 2324.2 | 2322.2 | 2215.5 | 2127.0 | 2076.2 | 2065.1 | 2097.6 | 2166.7 | 2284.6 | 2527.5 |
| 27.5° | 2639.2 | 2624.0 | 2517.3 | 2385.2 | 2274.4 | 2258.1 | 2251.0 | 2280.5 | 2369.9 | 2614.9 |
| 30° | 2994.9 | 2980.7 | 2865.9 | 2693.1 | 2539.6 | 2513.2 | 2446.2 | 2430.9 | 2497.0 | 2733.8 |
| 32.5° | 3385.2 | 3376.0 | 3238.8 | 3029.5 | 2824.2 | 2793.7 | 2680.9 | 2640.3 | 2692.1 | 2913.6 |
| 35° | 3712.4 | 3704.3 | 3590.5 | 3375.0 | 3124.0 | 3086.4 | 2971.6 | 2925.8 | 2952.3 | 3144.3 |
| 37.5° | 4008.2 | 4004.1 | 3906.5 | 3736.8 | 3477.7 | 3431.9 | 3302.9 | 3287.6 | 3282.5 | 3448.2 |
| 40° | 4282.5 | 4272.4 | 4170.8 | 4081.3 | 3889.2 | 3847.6 | 3733.8 | 3720.5 | 3681.9 | 3822.2 |
| 42.5° | 4586.4 | 4560.0 | 4412.6 | 4371.0 | 4319.1 | 4284.6 | 4216.5 | 4218.5 | 4133.2 | 4243.9 |
| 45° | 4834.4 | 4819.1 | 4667.7 | 4643.3 | 4699.2 | 4685.0 | 4743.9 | 4759.2 | 4593.5 | 4686.0 |
| 47.5° | 5100.6 | 5086.4 | 4958.4 | 4941.1 | 5092.5 | 5096.6 | 5304.9 | 5310.0 | 5042.7 | 5145.4 |
| 50° | 5428.9 | 5408.6 | 5281.5 | 5302.9 | 5472.6 | 5487.8 | 5868.9 | 5834.4 | 5456.3 | 5611.8 |
| 52.5° | 5645.4 | 5657.5 | 5630.1 | 5664.7 | 5896.4 | 5910.6 | 6423.8 | 6335.4 | 5865.9 | 6072.2 |
| 55° | 5804.9 | 5829.3 | 5914.7 | 5993.9 | 6343.5 | 6357.8 | 6947.2 | 6812.0 | 6205.3 | 6499.0 |
| 57.5° | 6010.2 | 5975.6 | 6135.2 | 6289.7 | 6768.3 | 6805.9 | 7456.3 | 7271.4 | 6506.1 | 6866.9 |
| 60° | 6304.9 | 6280.5 | 6404.5 | 6633.2 | 7243.9 | 7303.9 | 7995.0 | 7685.0 | 6726.7 | 7158.6 |
| 62.5° | 6902.5 | 6841.5 | 6860.8 | 7063.0 | 7843.5 | 7922.8 | 8602.7 | 8045.8 | 6836.4 | 7272.4 |
| 65° | 7795.8 | 7691.1 | 7593.5 | 7733.8 | 8688.1 | 8766.3 | 9288.7 | 8329.3 | 6795.8 | 7051.9 |
| 67.5° | 8920.8 | 8817.1 | 8697.2 | 8829.3 | 9932.0 | 9994.0 | 10135.2 | 8488.9 | 6475.6 | 6202.3 |
| 70° | 9848.6 | 9810.0 | 9953.3 | 10497.0 | 11918.8 | 11920.8 | 11220.6 | 8356.7 | 5598.6 | 4397.4 |
| 72.5° | 9725.7 | 9702.3 | 10457.4 | 12138.3 | 14422.8 | 14369.0 | 12248.0 | 7356.7 | 3771.4 | 1983.7 |
| 75° | 7978.7 | 8130.1 | 9299.8 | 12108.8 | 15322.2 | 15315.1 | 11619.0 | 4676.9 | 1560.0 | 822.2 |
| 77.5° | 4278.5 | 4518.3 | 6037.6 | 8940.1 | 11961.4 | 12141.3 | 8168.7 | 1636.2 | 669.7 | 526.4 |
| 80° | 1395.3 | 1604.7 | 2406.5 | 4551.9 | 7772.4 | 7738.9 | 3501.0 | 642.3 | 458.3 | 373.0 |
| 82.5° | 592.5 | 616.9 | 1075.2 | 2149.4 | 3988.8 | 3926.8 | 1114.8 | 368.9 | 322.2 | 255.1 |
| 85° | 231.7 | 259.1 | 474.6 | 993.9 | 1727.7 | 1690.0 | 402.4 | 182.9 | 206.3 | 166.7 |
| 87.5° | 76.2 | 92.5 | 169.7 | 340.4 | 537.6 | 518.3 | 98.6 | 63.0 | 89.4 | 76.2 |
| 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: GLAN-SB4A-740-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2505.1 | 0° | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 | 2505.1 |
| 2512.2 | 2.5° | 2526.4 | 2542.7 | 2562.0 | 2590.5 | 2614.9 | 2635.2 | 2656.5 | 2669.7 | 2674.8 | 2690.1 |
| 2516.3 | 5° | 2544.7 | 2580.3 | 2628.1 | 2674.8 | 2720.5 | 2748.0 | 2772.4 | 2784.6 | 2795.7 | 2803.9 |
| 2527.5 | 7.5° | 2575.2 | 2620.9 | 2696.2 | 2757.1 | 2795.7 | 2818.1 | 2834.4 | 2830.3 | 2834.4 | 2836.4 |
| 2539.6 | 10° | 2601.6 | 2665.7 | 2755.1 | 2813.0 | 2842.5 | 2843.5 | 2839.4 | 2825.2 | 2818.1 | 2819.1 |
| 2557.9 | 12.5° | 2633.1 | 2704.3 | 2800.8 | 2849.6 | 2857.7 | 2835.4 | 2818.1 | 2793.7 | 2784.6 | 2780.5 |
| 2585.4 | 15° | 2675.8 | 2757.1 | 2850.6 | 2868.9 | 2848.6 | 2820.1 | 2790.7 | 2751.0 | 2730.7 | 2714.4 |
| 2632.1 | 17.5° | 2727.7 | 2817.1 | 2889.2 | 2876.0 | 2832.3 | 2785.6 | 2737.8 | 2677.9 | 2636.2 | 2618.9 |
| 2696.2 | 20° | 2799.8 | 2880.1 | 2918.7 | 2860.8 | 2794.7 | 2723.6 | 2642.3 | 2569.1 | 2530.5 | 2513.2 |
| 2777.5 | 22.5° | 2887.2 | 2964.4 | 2947.2 | 2834.4 | 2740.9 | 2627.0 | 2525.4 | 2471.6 | 2452.2 | 2440.1 |
| 2882.1 | 25° | 2991.9 | 3057.9 | 2967.5 | 2795.7 | 2652.5 | 2499.0 | 2420.7 | 2403.5 | 2394.3 | 2385.2 |
| 3010.2 | 27.5° | 3128.1 | 3163.6 | 2982.7 | 2738.8 | 2514.2 | 2362.8 | 2334.4 | 2337.4 | 2334.4 | 2319.1 |
| 3188.0 | 30° | 3307.9 | 3300.8 | 2997.0 | 2646.4 | 2355.7 | 2239.8 | 2241.9 | 2255.1 | 2257.1 | 2247.0 |
| 3436.0 | 32.5° | 3544.7 | 3472.6 | 3004.1 | 2526.4 | 2204.3 | 2132.1 | 2134.2 | 2148.4 | 2158.5 | 2141.3 |
| 3760.2 | 35° | 3831.3 | 3672.8 | 2992.9 | 2376.0 | 2087.4 | 2029.5 | 2014.2 | 2018.3 | 2021.4 | 2005.1 |
| 4153.5 | 37.5° | 4165.7 | 3897.4 | 2943.1 | 2209.4 | 1990.9 | 1928.9 | 1896.4 | 1868.9 | 1852.7 | 1837.4 |
| 4598.6 | 40° | 4532.5 | 4142.3 | 2851.6 | 2046.8 | 1883.1 | 1822.2 | 1773.4 | 1721.6 | 1666.7 | 1646.3 |
| 5070.1 | 42.5° | 4916.7 | 4394.3 | 2740.9 | 1891.3 | 1759.2 | 1709.4 | 1657.5 | 1582.3 | 1500.0 | 1458.3 |
| 5560.0 | 45° | 5315.1 | 4652.5 | 2632.1 | 1737.8 | 1632.1 | 1610.8 | 1550.8 | 1460.4 | 1370.9 | 1318.1 |
| 6050.8 | 47.5° | 5705.3 | 4896.4 | 2472.6 | 1583.3 | 1513.2 | 1536.6 | 1489.8 | 1406.5 | 1306.9 | 1223.6 |
| 6537.6 | 50° | 6078.3 | 5125.0 | 2211.4 | 1426.8 | 1416.7 | 1514.2 | 1469.5 | 1349.6 | 1235.8 | 1129.1 |
| 7015.3 | 52.5° | 6448.2 | 5310.0 | 1877.0 | 1284.6 | 1364.8 | 1508.1 | 1443.1 | 1311.0 | 1171.8 | 1060.0 |
| 7464.5 | 55° | 6762.2 | 5405.5 | 1554.9 | 1162.6 | 1289.6 | 1456.3 | 1411.6 | 1265.3 | 1081.3 | 962.4 |
| 7772.4 | 57.5° | 6941.1 | 5328.3 | 1286.6 | 1042.7 | 1186.0 | 1370.9 | 1357.7 | 1167.7 | 973.6 | 882.1 |
| 7832.4 | 60° | 6863.9 | 5015.3 | 1067.1 | 938.0 | 1087.4 | 1278.5 | 1264.2 | 1071.1 | 891.3 | 804.9 |
| 7511.2 | 62.5° | 6438.0 | 4418.7 | 893.3 | 846.5 | 998.0 | 1183.9 | 1170.7 | 997.0 | 828.3 | 744.9 |
| 6658.6 | 65° | 5580.3 | 3594.5 | 758.1 | 770.3 | 907.5 | 1070.1 | 1089.4 | 935.0 | 778.5 | 697.2 |
| 5151.4 | 67.5° | 4256.1 | 2603.7 | 652.4 | 704.3 | 819.1 | 958.3 | 1014.2 | 890.2 | 736.8 | 659.6 |
| 2980.7 | 70° | 2425.8 | 1478.7 | 563.0 | 640.2 | 740.9 | 854.7 | 956.3 | 854.7 | 692.1 | 628.1 |
| 1116.9 | 72.5° | 919.7 | 678.9 | 486.8 | 576.2 | 665.7 | 767.3 | 892.3 | 798.8 | 640.2 | 592.5 |
| 577.2 | 75° | 490.9 | 413.6 | 409.6 | 501.0 | 579.3 | 681.9 | 812.0 | 743.9 | 601.6 | 626.0 |
| 399.4 | 77.5° | 334.4 | 292.7 | 342.5 | 428.9 | 484.8 | 587.4 | 726.6 | 660.6 | 521.3 | 519.3 |
| 276.4 | 80° | 231.7 | 207.3 | 278.5 | 345.5 | 375.0 | 493.9 | 634.1 | 567.1 | 424.8 | 396.3 |
| 170.7 | 82.5° | 139.2 | 135.2 | 208.3 | 258.1 | 265.2 | 381.1 | 525.4 | 475.6 | 347.6 | 302.8 |
| 101.6 | 85° | 76.2 | 80.3 | 133.1 | 151.4 | 154.5 | 266.3 | 411.6 | 367.9 | 267.3 | 224.6 |
| 36.6 | 87.5° | 21.3 | 27.4 | 48.8 | 60.0 | 74.2 | 138.2 | 244.9 | 218.5 | 134.1 | 93.5 |
| 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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| 180° |
|--------|
| 2505.1 |
| 2689.0 |
| 2805.9 |
| 2839.4 |
| 2821.2 |
| 2778.5 |
| 2719.5 |
| 2619.9 |
| 2511.2 |
| 2442.1 |
| 2385.2 |
| 2322.2 |
| 2252.0 |
| 2149.4 |
| 2016.3 |
| 1847.6 |
| 1655.5 |
| 1463.4 |
| 1314.0 |
| 1214.4 |
| 1119.9 |
| 1047.8 |
| 952.2 |
| 869.9 |
| 792.7 |
| 731.7 |
| 683.9 |
| 647.4 |
| 619.9 |
| 584.4 |
| 646.3 |
| 478.7 |
| 379.1 |
| 304.9 |
| 226.6 |
| 93.5 |
| 0.0 |

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