

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: P852409

Luminaire Tested: **GLAN-SB3C-840-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852409
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-SB3C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19750 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

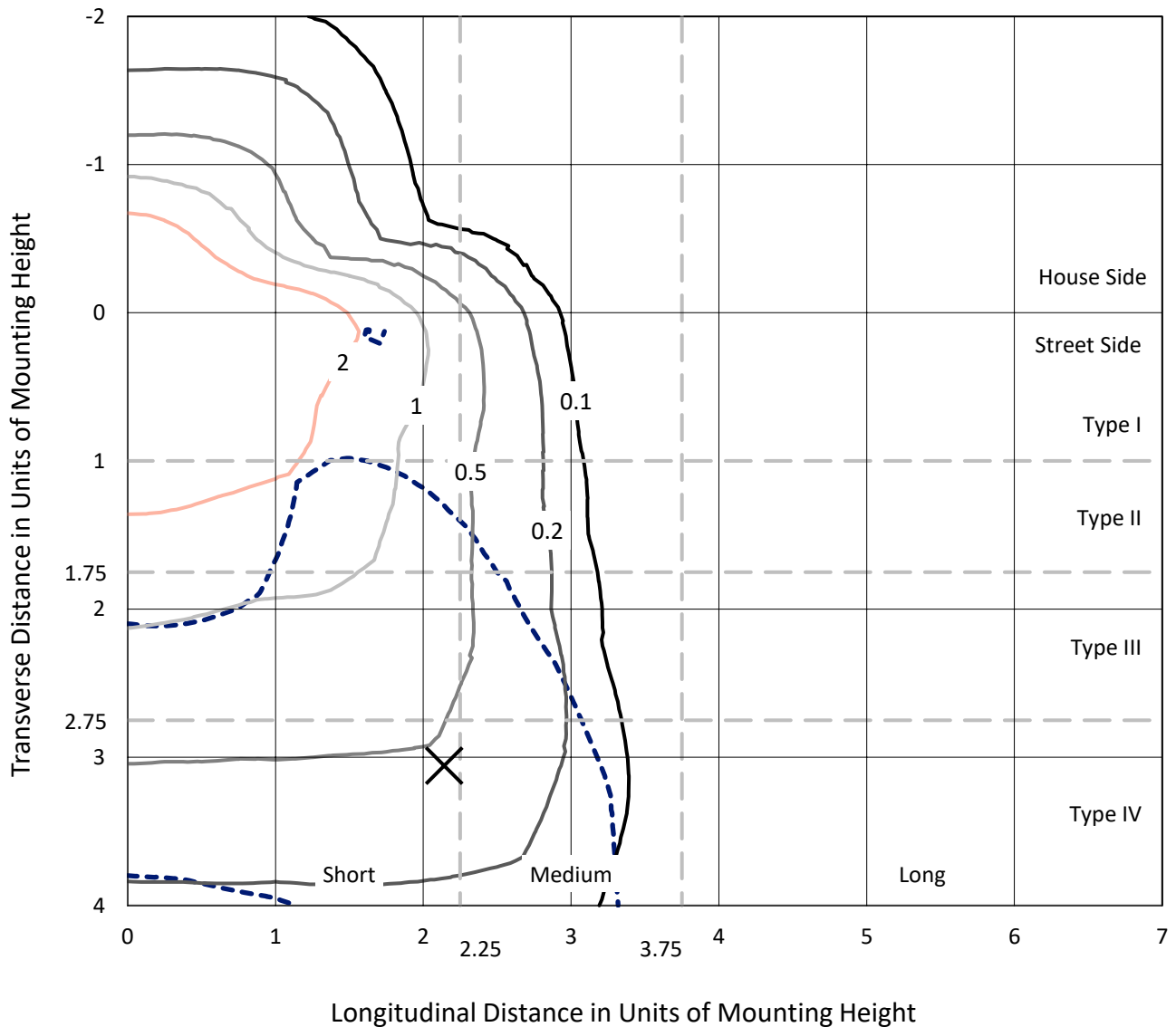
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

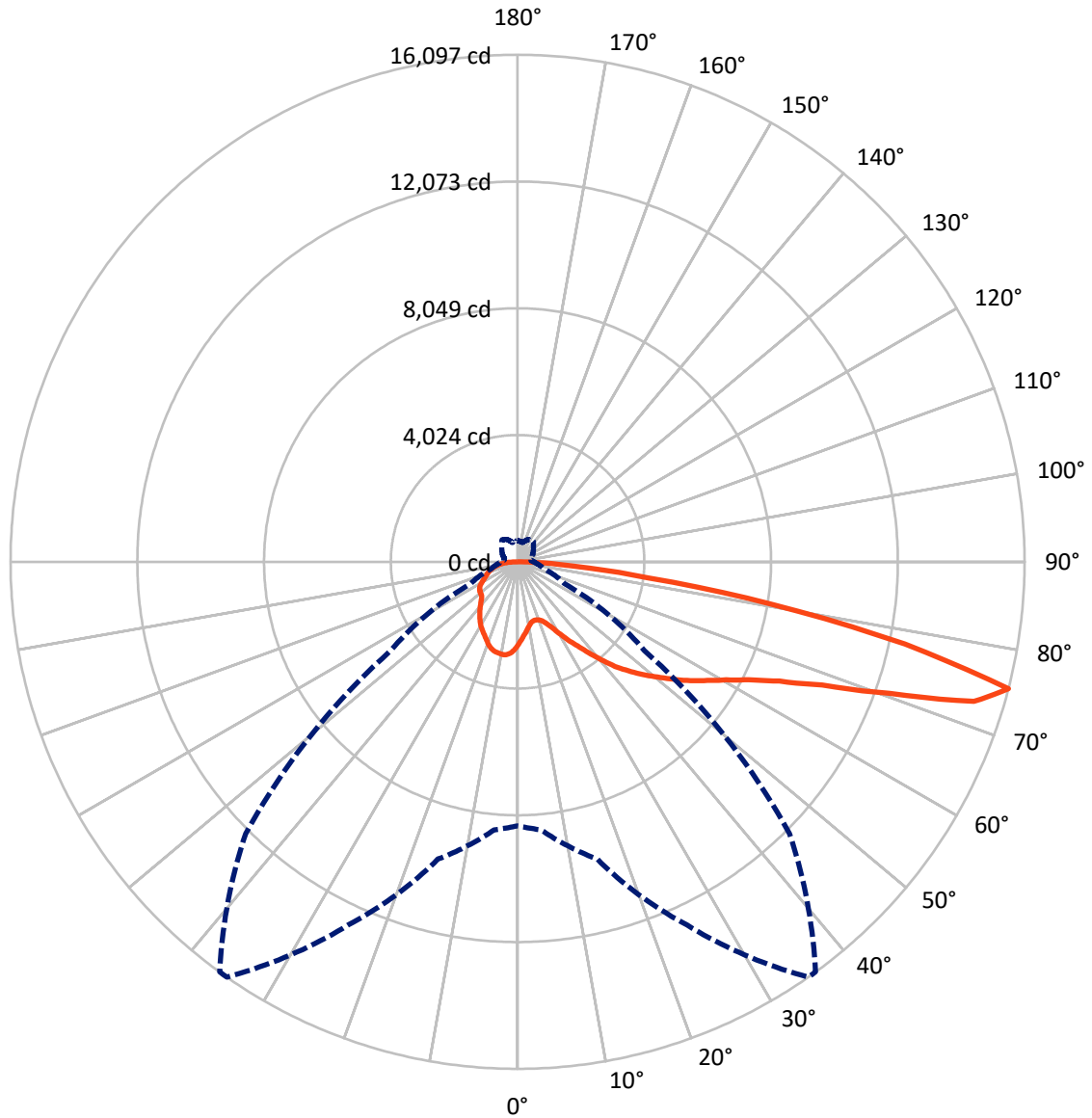
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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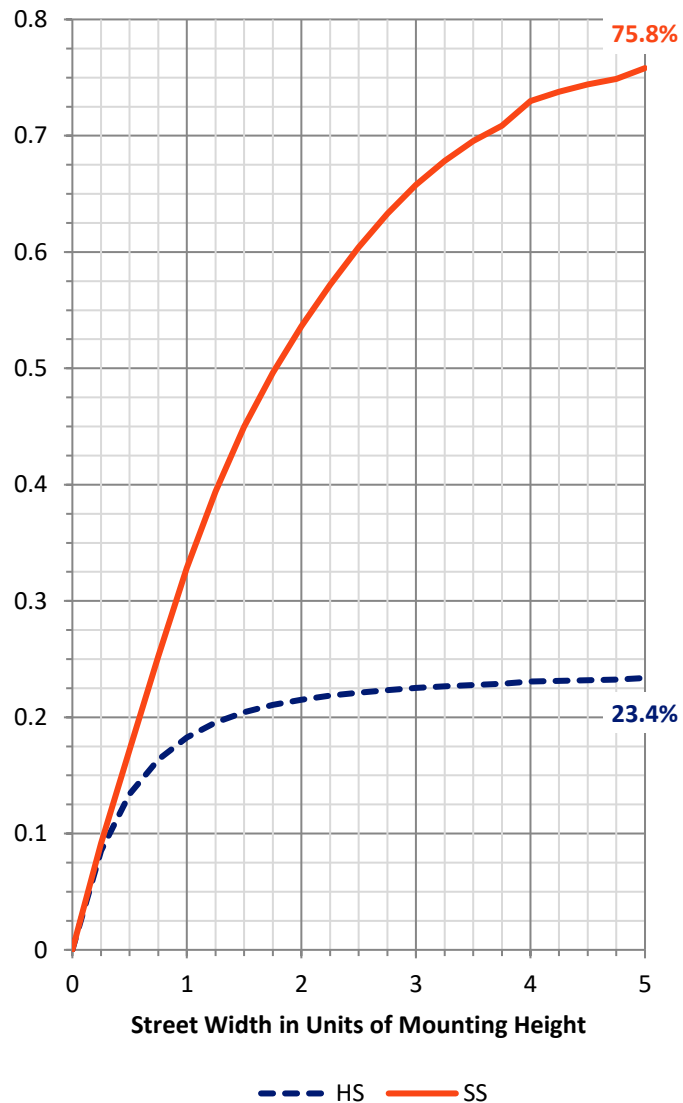
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4700.0 | 0.0 | 4700.0 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 15050.0 | 0.0 | 15050.0 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 19750.0 | 0.0 | 19750.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 249.2 | 1.3 |
| 10°-20° | 718.7 | 3.6 |
| 20°-30° | 1207.0 | 6.1 |
| 30°-40° | 1875.8 | 9.5 |
| 40°-50° | 2784.2 | 14.1 |
| 50°-60° | 3843.7 | 19.5 |
| 60°-70° | 4663.3 | 23.6 |
| 70°-80° | 3853.9 | 19.5 |
| 80°-90° | 554.3 | 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° | 19750.0 | 100.0 |
| 0°-180° | 19750.0 | 100.0 |

Coefficient of Utilization



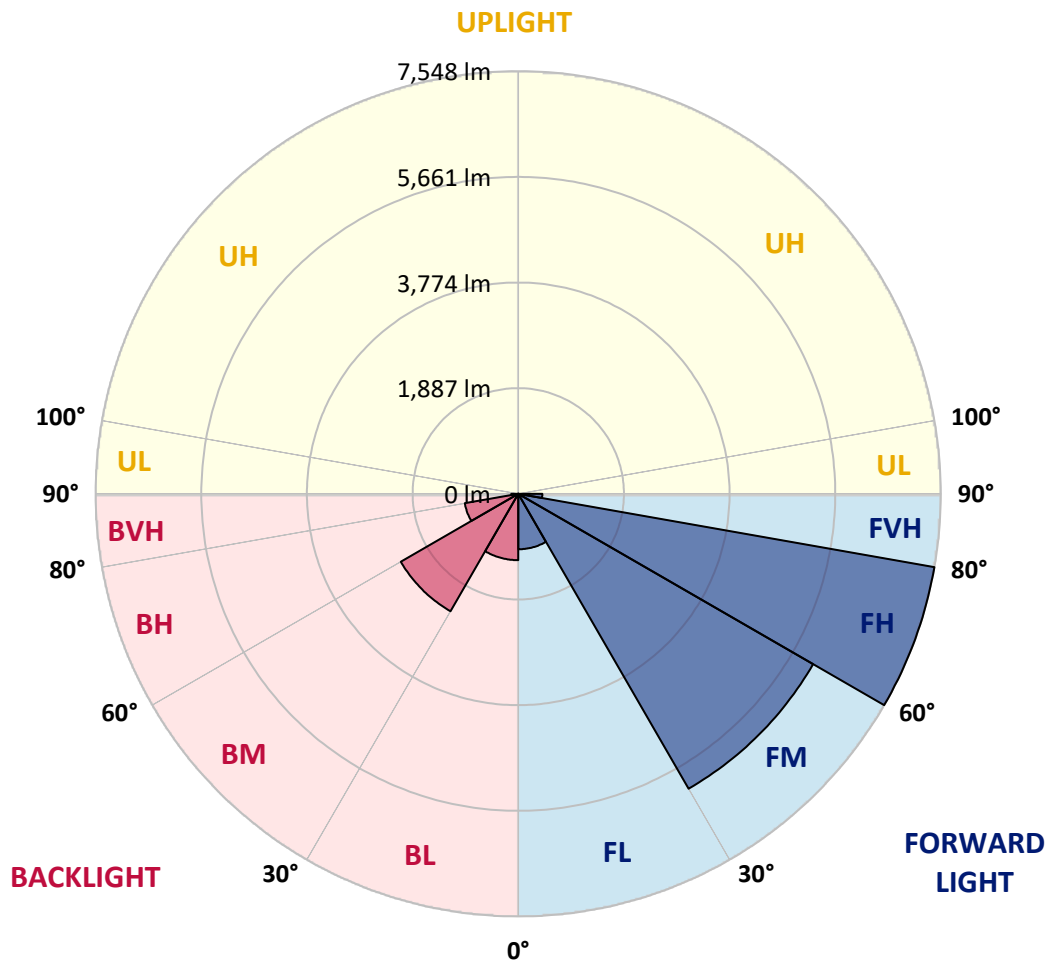
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 990.4 | 5.0 | | | |
| FM (30°-60°) | 6081.9 | 30.8 | | | |
| FH (60°-80°) | 7548.2 | 38.2 | | | G4/12000 |
| FVH (80°-90°) | 429.5 | 2.2 | | | G3/500 |
| BL (0°-30°) | 1184.5 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2421.7 | 12.3 | B2/2500 | | |
| BH (60°-80°) | 969.0 | 4.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 124.8 | 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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 |
| 2.5° | 2426.8 | 2441.8 | 2448.2 | 2445.0 | 2461.0 | 2458.9 | 2481.3 | 2509.0 | 2547.5 | 2584.8 |
| 5° | 2240.0 | 2256.0 | 2269.9 | 2282.7 | 2313.7 | 2323.3 | 2358.5 | 2411.9 | 2482.3 | 2553.9 |
| 7.5° | 2066.0 | 2079.8 | 2101.2 | 2124.7 | 2177.0 | 2186.6 | 2245.3 | 2328.6 | 2426.8 | 2531.5 |
| 10° | 1924.0 | 1937.8 | 1960.3 | 1986.9 | 2052.1 | 2063.8 | 2138.6 | 2249.6 | 2377.7 | 2510.1 |
| 12.5° | 1863.1 | 1867.4 | 1880.2 | 1906.9 | 1963.5 | 1970.9 | 2053.1 | 2180.2 | 2329.7 | 2494.1 |
| 15° | 1859.9 | 1868.4 | 1869.5 | 1883.4 | 1930.4 | 1933.6 | 2009.4 | 2135.4 | 2299.8 | 2490.9 |
| 17.5° | 1891.9 | 1898.3 | 1888.7 | 1897.3 | 1936.8 | 1942.1 | 2001.9 | 2114.0 | 2290.2 | 2504.8 |
| 20° | 1977.3 | 1982.7 | 1953.8 | 1942.1 | 1970.9 | 1975.2 | 2033.9 | 2127.9 | 2299.8 | 2533.6 |
| 22.5° | 2158.8 | 2162.0 | 2091.6 | 2043.5 | 2045.7 | 2047.8 | 2099.1 | 2184.5 | 2337.1 | 2585.9 |
| 25° | 2441.8 | 2439.6 | 2327.5 | 2234.6 | 2181.3 | 2169.5 | 2203.7 | 2276.3 | 2400.1 | 2655.3 |
| 27.5° | 2772.8 | 2756.7 | 2644.6 | 2505.8 | 2389.5 | 2372.4 | 2364.9 | 2395.9 | 2489.8 | 2747.1 |
| 30° | 3146.4 | 3131.5 | 3010.8 | 2829.3 | 2668.1 | 2640.4 | 2569.9 | 2553.9 | 2623.3 | 2872.0 |
| 32.5° | 3556.4 | 3546.8 | 3402.7 | 3182.7 | 2967.1 | 2935.0 | 2816.5 | 2773.8 | 2828.3 | 3061.0 |
| 35° | 3900.2 | 3891.7 | 3772.1 | 3545.8 | 3282.0 | 3242.5 | 3121.9 | 3073.8 | 3101.6 | 3303.4 |
| 37.5° | 4210.9 | 4206.6 | 4104.1 | 3925.8 | 3653.6 | 3605.5 | 3469.9 | 3453.9 | 3448.6 | 3622.6 |
| 40° | 4499.2 | 4488.5 | 4381.7 | 4287.8 | 4086.0 | 4042.2 | 3922.6 | 3908.8 | 3868.2 | 4015.5 |
| 42.5° | 4818.4 | 4790.7 | 4635.8 | 4592.1 | 4537.6 | 4501.3 | 4429.8 | 4431.9 | 4342.2 | 4458.6 |
| 45° | 5078.9 | 5062.9 | 4903.8 | 4878.2 | 4936.9 | 4922.0 | 4983.9 | 4999.9 | 4825.9 | 4923.1 |
| 47.5° | 5358.7 | 5343.7 | 5209.2 | 5191.0 | 5350.1 | 5354.4 | 5573.3 | 5578.6 | 5297.8 | 5405.6 |
| 50° | 5703.5 | 5682.2 | 5548.7 | 5571.1 | 5749.4 | 5765.4 | 6165.8 | 6129.5 | 5732.4 | 5895.7 |
| 52.5° | 5930.9 | 5943.8 | 5914.9 | 5951.2 | 6194.7 | 6209.6 | 6748.8 | 6655.9 | 6162.6 | 6379.4 |
| 55° | 6098.6 | 6124.2 | 6213.9 | 6297.2 | 6664.4 | 6679.4 | 7298.6 | 7156.6 | 6519.2 | 6827.8 |
| 57.5° | 6314.2 | 6277.9 | 6445.6 | 6607.8 | 7110.7 | 7150.2 | 7833.5 | 7639.2 | 6835.3 | 7214.3 |
| 60° | 6623.9 | 6598.2 | 6728.5 | 6968.7 | 7610.4 | 7673.4 | 8399.4 | 8073.8 | 7066.9 | 7520.7 |
| 62.5° | 7251.7 | 7187.6 | 7207.9 | 7420.3 | 8240.3 | 8323.6 | 9037.9 | 8452.8 | 7182.3 | 7640.3 |
| 65° | 8190.1 | 8080.2 | 7977.7 | 8125.0 | 9127.6 | 9209.8 | 9758.6 | 8750.7 | 7139.5 | 7408.6 |
| 67.5° | 9372.1 | 9263.2 | 9137.2 | 9276.0 | 10434.4 | 10499.5 | 10647.9 | 8918.3 | 6803.2 | 6516.0 |
| 70° | 10346.8 | 10306.3 | 10456.8 | 11028.0 | 12521.7 | 12523.8 | 11788.2 | 8779.5 | 5881.8 | 4619.8 |
| 72.5° | 10217.7 | 10193.1 | 10986.4 | 12752.3 | 15152.5 | 15095.9 | 12867.6 | 7728.9 | 3962.1 | 2084.1 |
| 75° | 8382.3 | 8541.4 | 9770.3 | 12721.4 | 16097.3 | 16089.9 | 12206.7 | 4913.4 | 1638.9 | 863.7 |
| 77.5° | 4494.9 | 4746.9 | 6343.1 | 9392.3 | 12566.5 | 12755.5 | 8582.0 | 1719.0 | 703.6 | 553.1 |
| 80° | 1465.9 | 1685.9 | 2528.3 | 4782.1 | 8165.6 | 8130.4 | 3678.1 | 674.8 | 481.5 | 391.8 |
| 82.5° | 622.5 | 648.1 | 1129.6 | 2258.1 | 4190.6 | 4125.5 | 1171.2 | 387.6 | 338.5 | 268.0 |
| 85° | 243.4 | 272.3 | 498.6 | 1044.2 | 1815.0 | 1775.5 | 422.8 | 192.2 | 216.7 | 175.1 |
| 87.5° | 80.1 | 97.2 | 178.3 | 357.7 | 564.8 | 544.5 | 103.6 | 66.2 | 94.0 | 80.1 |
| 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-SB3C-840-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2631.8 | 0° | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 | 2631.8 |
| 2639.3 | 2.5° | 2654.2 | 2671.3 | 2691.6 | 2721.5 | 2747.1 | 2768.5 | 2790.9 | 2804.8 | 2810.1 | 2826.1 |
| 2643.6 | 5° | 2673.5 | 2710.8 | 2761.0 | 2810.1 | 2858.2 | 2887.0 | 2912.6 | 2925.4 | 2937.2 | 2945.7 |
| 2655.3 | 7.5° | 2705.5 | 2753.5 | 2832.5 | 2896.6 | 2937.2 | 2960.7 | 2977.7 | 2973.5 | 2977.7 | 2979.9 |
| 2668.1 | 10° | 2733.3 | 2800.5 | 2894.5 | 2955.3 | 2986.3 | 2987.4 | 2983.1 | 2968.1 | 2960.7 | 2961.7 |
| 2687.3 | 12.5° | 2766.3 | 2841.1 | 2942.5 | 2993.8 | 3002.3 | 2978.8 | 2960.7 | 2935.0 | 2925.4 | 2921.2 |
| 2716.2 | 15° | 2811.2 | 2896.6 | 2994.8 | 3014.0 | 2992.7 | 2962.8 | 2931.8 | 2890.2 | 2868.8 | 2851.8 |
| 2765.3 | 17.5° | 2865.6 | 2959.6 | 3035.4 | 3021.5 | 2975.6 | 2926.5 | 2876.3 | 2813.3 | 2769.6 | 2751.4 |
| 2832.5 | 20° | 2941.4 | 3025.8 | 3066.4 | 3005.5 | 2936.1 | 2861.4 | 2776.0 | 2699.1 | 2658.5 | 2640.4 |
| 2918.0 | 22.5° | 3033.3 | 3114.4 | 3096.3 | 2977.7 | 2879.5 | 2759.9 | 2653.2 | 2596.6 | 2576.3 | 2563.5 |
| 3027.9 | 25° | 3143.2 | 3212.6 | 3117.6 | 2937.2 | 2786.6 | 2625.4 | 2543.2 | 2525.1 | 2515.4 | 2505.8 |
| 3162.5 | 27.5° | 3286.3 | 3323.7 | 3133.6 | 2877.4 | 2641.4 | 2482.3 | 2452.5 | 2455.7 | 2452.5 | 2436.4 |
| 3349.3 | 30° | 3475.3 | 3467.8 | 3148.6 | 2780.2 | 2474.9 | 2353.2 | 2355.3 | 2369.2 | 2371.3 | 2360.6 |
| 3609.8 | 32.5° | 3724.1 | 3648.2 | 3156.0 | 2654.2 | 2315.8 | 2240.0 | 2242.1 | 2257.1 | 2267.7 | 2249.6 |
| 3950.4 | 35° | 4025.1 | 3858.6 | 3144.3 | 2496.2 | 2193.0 | 2132.1 | 2116.1 | 2120.4 | 2123.6 | 2106.5 |
| 4363.6 | 37.5° | 4376.4 | 4094.5 | 3092.0 | 2321.1 | 2091.6 | 2026.4 | 1992.3 | 1963.5 | 1946.4 | 1930.4 |
| 4831.2 | 40° | 4761.8 | 4351.8 | 2995.9 | 2150.3 | 1978.4 | 1914.3 | 1863.1 | 1808.6 | 1751.0 | 1729.6 |
| 5326.6 | 42.5° | 5165.4 | 4616.6 | 2879.5 | 1986.9 | 1848.1 | 1795.8 | 1741.4 | 1662.4 | 1575.9 | 1532.1 |
| 5841.3 | 45° | 5583.9 | 4887.8 | 2765.3 | 1825.7 | 1714.7 | 1692.3 | 1629.3 | 1534.3 | 1440.3 | 1384.8 |
| 6356.9 | 47.5° | 5993.9 | 5144.1 | 2597.7 | 1663.4 | 1589.8 | 1614.3 | 1565.2 | 1477.7 | 1373.0 | 1285.5 |
| 6868.4 | 50° | 6385.8 | 5384.3 | 2323.3 | 1499.0 | 1488.3 | 1590.8 | 1543.9 | 1417.9 | 1298.3 | 1186.2 |
| 7370.2 | 52.5° | 6774.4 | 5578.6 | 1972.0 | 1349.5 | 1433.9 | 1584.4 | 1516.1 | 1377.3 | 1231.0 | 1113.6 |
| 7842.1 | 55° | 7104.3 | 5679.0 | 1633.5 | 1221.4 | 1354.9 | 1530.0 | 1483.0 | 1329.3 | 1136.0 | 1011.1 |
| 8165.6 | 57.5° | 7292.2 | 5597.8 | 1351.7 | 1095.4 | 1246.0 | 1440.3 | 1426.4 | 1226.8 | 1022.8 | 926.7 |
| 8228.6 | 60° | 7211.1 | 5269.0 | 1121.1 | 985.5 | 1142.4 | 1343.1 | 1328.2 | 1125.3 | 936.4 | 845.6 |
| 7891.2 | 62.5° | 6763.7 | 4642.3 | 938.5 | 889.4 | 1048.5 | 1243.8 | 1230.0 | 1047.4 | 870.2 | 782.6 |
| 6995.4 | 65° | 5862.6 | 3776.4 | 796.5 | 809.3 | 953.4 | 1124.3 | 1144.5 | 982.3 | 817.8 | 732.4 |
| 5412.0 | 67.5° | 4471.4 | 2735.4 | 685.4 | 739.9 | 860.5 | 1006.8 | 1065.5 | 935.3 | 774.1 | 692.9 |
| 3131.5 | 70° | 2548.5 | 1553.5 | 591.5 | 672.6 | 778.3 | 897.9 | 1004.7 | 897.9 | 727.1 | 659.8 |
| 1173.4 | 72.5° | 966.2 | 713.2 | 511.4 | 605.4 | 699.3 | 806.1 | 937.4 | 839.2 | 672.6 | 622.5 |
| 606.4 | 75° | 515.7 | 434.5 | 430.3 | 526.4 | 608.6 | 716.4 | 853.1 | 781.5 | 632.1 | 657.7 |
| 419.6 | 77.5° | 351.3 | 307.5 | 359.8 | 450.6 | 509.3 | 617.1 | 763.4 | 694.0 | 547.7 | 545.6 |
| 290.4 | 80° | 243.4 | 217.8 | 292.5 | 363.0 | 394.0 | 518.9 | 666.2 | 595.8 | 446.3 | 416.4 |
| 179.4 | 82.5° | 146.3 | 142.0 | 218.9 | 271.2 | 278.7 | 400.4 | 552.0 | 499.7 | 365.1 | 318.2 |
| 106.8 | 85° | 80.1 | 84.3 | 139.9 | 159.1 | 162.3 | 279.7 | 432.4 | 386.5 | 280.8 | 236.0 |
| 38.4 | 87.5° | 22.4 | 28.8 | 51.2 | 63.0 | 77.9 | 145.2 | 257.3 | 229.6 | 140.9 | 98.2 |
| 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> |
|-------------|
| 2631.8 |
| 2825.1 |
| 2947.9 |
| 2983.1 |
| 2963.9 |
| 2919.0 |
| 2857.1 |
| 2752.5 |
| 2638.2 |
| 2565.6 |
| 2505.8 |
| 2439.6 |
| 2366.0 |
| 2258.1 |
| 2118.3 |
| 1941.0 |
| 1739.2 |
| 1537.5 |
| 1380.5 |
| 1275.9 |
| 1176.6 |
| 1100.8 |
| 1000.4 |
| 913.9 |
| 832.8 |
| 768.7 |
| 718.5 |
| 680.1 |
| 651.3 |
| 613.9 |
| 679.0 |
| 502.9 |
| 398.2 |
| 320.3 |
| 238.1 |
| 98.2 |
| 0.0 |

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