

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: P652862

Luminaire Tested: **GLAN-SA4C-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23406.7 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

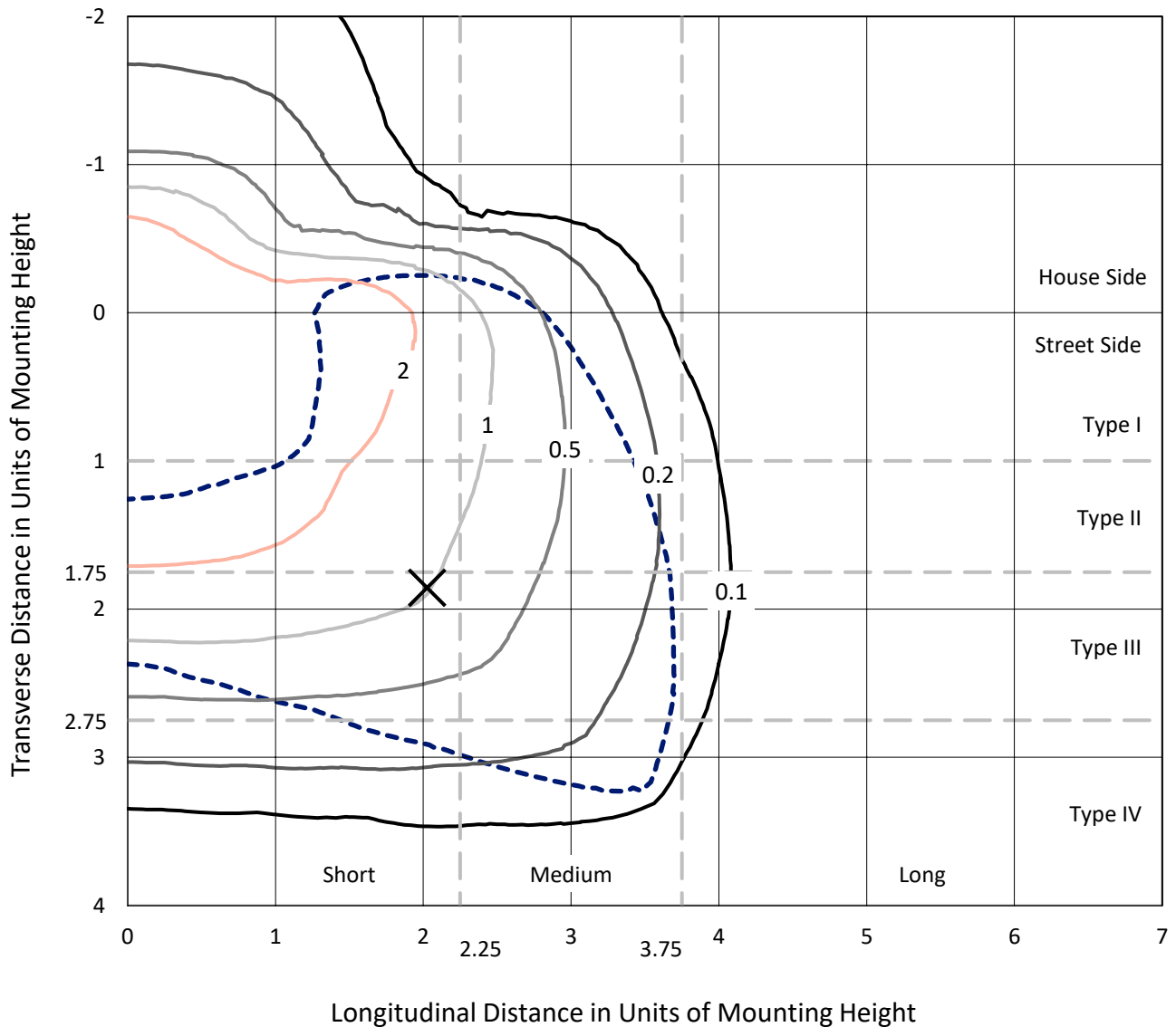
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

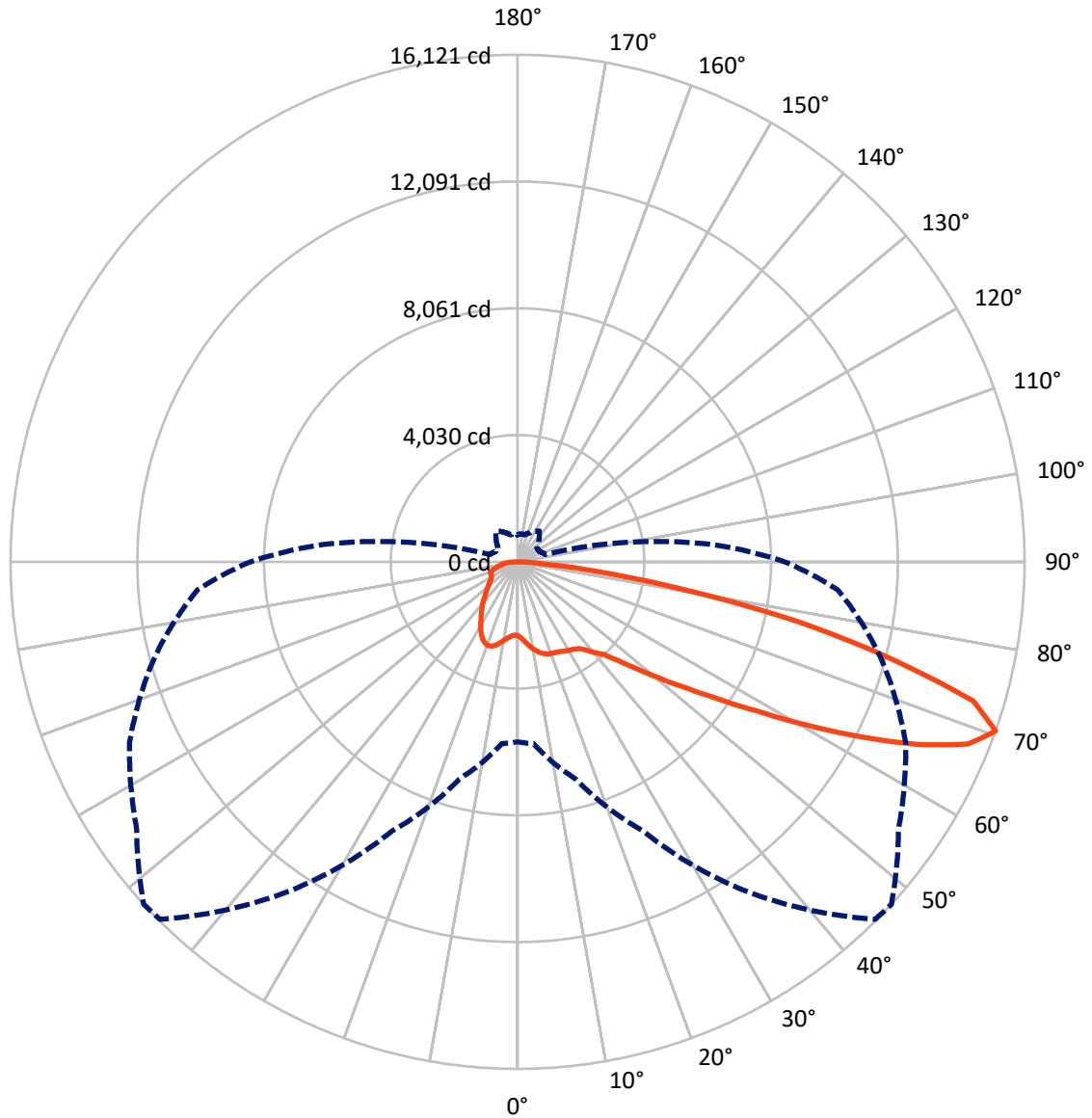
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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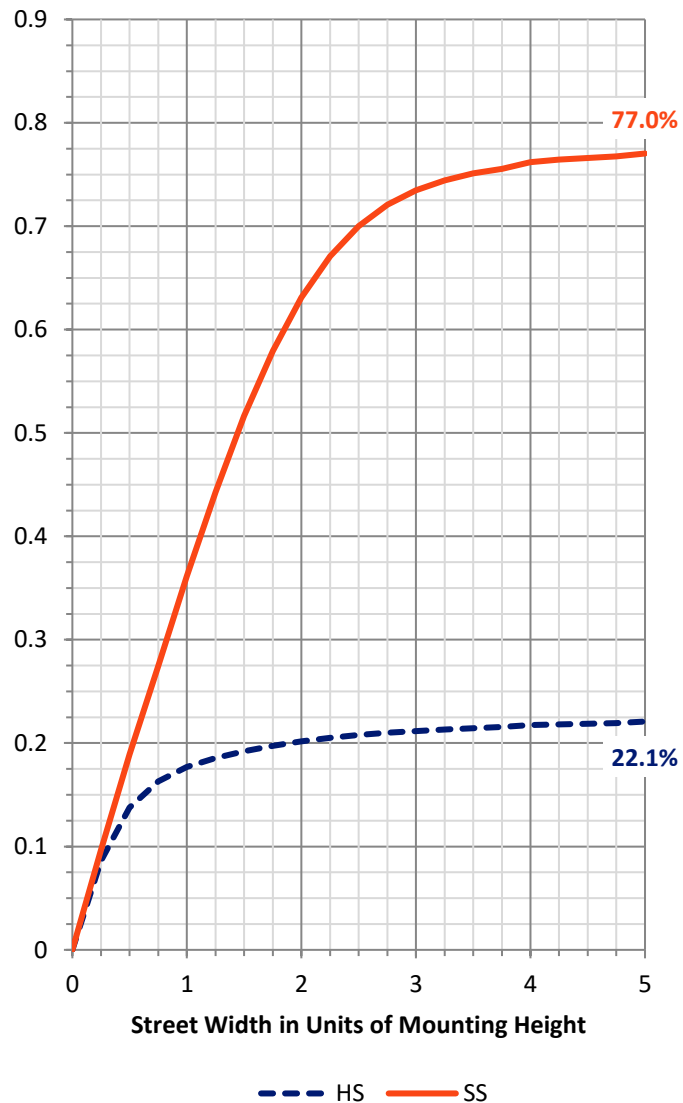
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5299.7 | 0.0 | 5299.7 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 18107.0 | 0.0 | 18107.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 23406.7 | 0.0 | 23406.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 242.2 | 1.0 |
| 10°-20° | 809.7 | 3.5 |
| 20°-30° | 1346.6 | 5.8 |
| 30°-40° | 1908.6 | 8.2 |
| 40°-50° | 2817.4 | 12.0 |
| 50°-60° | 4879.9 | 20.8 |
| 60°-70° | 6893.0 | 29.4 |
| 70°-80° | 3962.5 | 16.9 |
| 80°-90° | 546.7 | 2.3 |
| 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° | 23406.7 | 100.0 |
| 0°-180° | 23406.7 | 100.0 |

Coefficient of Utilization



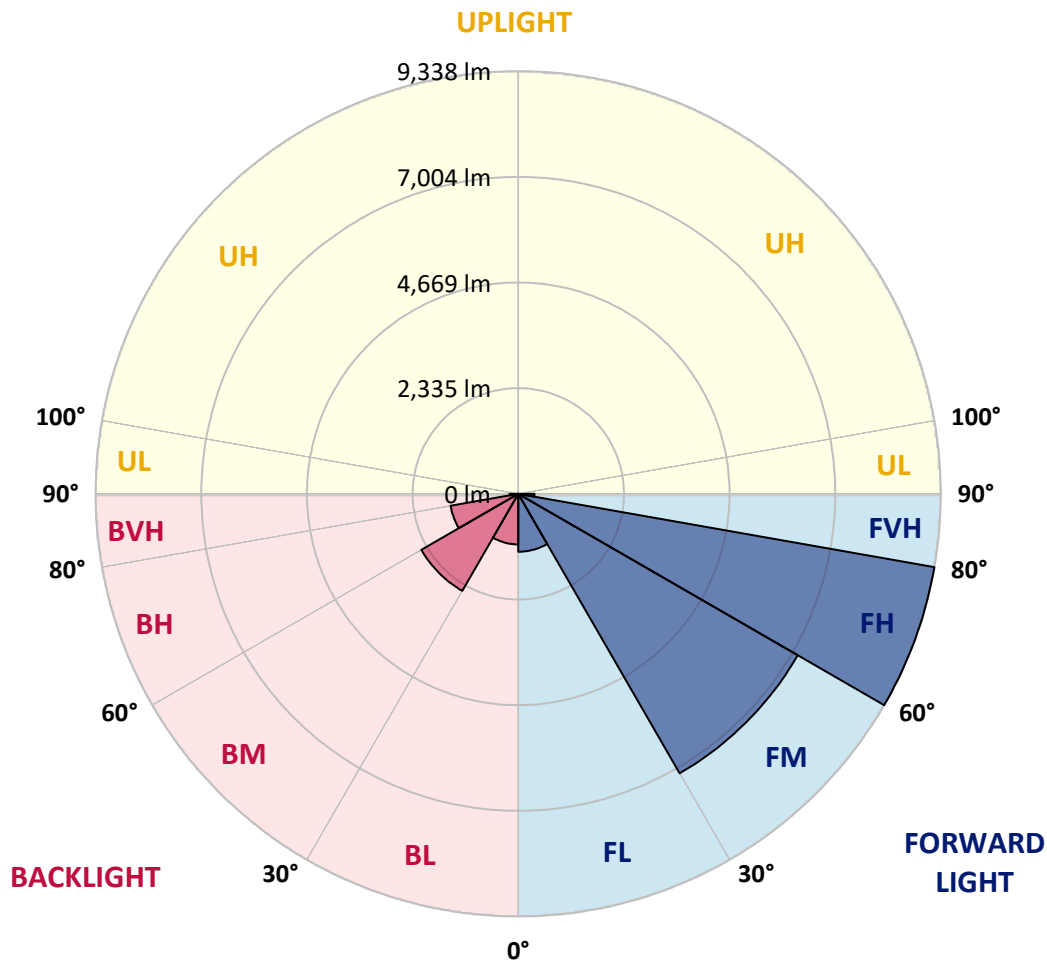
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1280.0 | 5.5 | | | |
| FM (30°-60°) | 7131.6 | 30.5 | | | |
| FH (60°-80°) | 9338.3 | 39.9 | | | G4/12000 |
| FVH (80°-90°) | 357.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 1118.5 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2474.4 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1517.3 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 189.6 | 0.8 | | | 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° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 |
| 2.5° | 2501.3 | 2492.6 | 2491.3 | 2472.5 | 2462.4 | 2443.7 | 2436.2 | 2418.6 | 2397.4 | 2376.1 | 2356.0 |
| 5° | 2697.9 | 2697.9 | 2689.2 | 2662.9 | 2621.6 | 2578.9 | 2560.2 | 2526.4 | 2466.2 | 2417.4 | 2376.1 |
| 7.5° | 2899.6 | 2902.1 | 2884.5 | 2845.8 | 2786.9 | 2718.0 | 2700.5 | 2650.3 | 2565.2 | 2493.8 | 2432.4 |
| 10° | 3073.7 | 3073.7 | 3049.9 | 2997.3 | 2923.4 | 2848.3 | 2830.7 | 2774.4 | 2679.2 | 2590.3 | 2510.0 |
| 12.5° | 3206.5 | 3206.5 | 3175.2 | 3106.3 | 3026.1 | 2958.5 | 2938.5 | 2884.5 | 2795.7 | 2696.7 | 2595.2 |
| 15° | 3292.9 | 3286.6 | 3251.6 | 3173.9 | 3096.2 | 3037.4 | 3023.6 | 2978.5 | 2897.1 | 2796.9 | 2683.0 |
| 17.5° | 3296.6 | 3294.2 | 3260.3 | 3195.2 | 3127.6 | 3087.5 | 3078.7 | 3048.6 | 2984.8 | 2889.6 | 2769.3 |
| 20° | 3224.1 | 3229.0 | 3206.5 | 3160.1 | 3127.6 | 3110.0 | 3106.3 | 3096.2 | 3051.1 | 2962.3 | 2842.0 |
| 22.5° | 3146.3 | 3155.1 | 3133.8 | 3108.8 | 3106.3 | 3123.8 | 3126.3 | 3128.9 | 3100.0 | 3013.6 | 2903.4 |
| 25° | 3127.6 | 3133.8 | 3112.5 | 3090.0 | 3103.8 | 3150.1 | 3160.1 | 3170.1 | 3147.6 | 3074.9 | 2976.0 |
| 27.5° | 3222.8 | 3217.8 | 3176.5 | 3127.6 | 3136.3 | 3199.0 | 3212.8 | 3224.1 | 3212.8 | 3150.1 | 3066.2 |
| 30° | 3492.1 | 3475.8 | 3393.1 | 3250.3 | 3205.2 | 3249.0 | 3262.8 | 3294.2 | 3294.2 | 3247.9 | 3163.9 |
| 32.5° | 3942.9 | 3911.7 | 3760.1 | 3479.6 | 3323.0 | 3296.6 | 3310.4 | 3361.8 | 3388.1 | 3351.8 | 3260.3 |
| 35° | 4490.4 | 4457.8 | 4241.1 | 3864.1 | 3538.4 | 3391.8 | 3388.1 | 3445.7 | 3515.9 | 3434.5 | 3315.5 |
| 37.5° | 5040.2 | 5006.4 | 4745.8 | 4322.5 | 3852.8 | 3592.2 | 3569.7 | 3589.7 | 3619.8 | 3470.8 | 3391.8 |
| 40° | 5590.0 | 5550.0 | 5322.0 | 4834.7 | 4237.3 | 3857.8 | 3799.0 | 3708.7 | 3696.2 | 3589.7 | 3539.7 |
| 42.5° | 6134.9 | 6098.6 | 5983.4 | 5409.7 | 4698.2 | 4117.1 | 4026.9 | 3871.5 | 3919.1 | 3855.3 | 3811.5 |
| 45° | 6684.8 | 6687.3 | 6564.5 | 6054.8 | 5254.4 | 4595.6 | 4474.0 | 4231.1 | 4343.8 | 4320.0 | 4345.0 |
| 47.5° | 7172.0 | 7165.7 | 7121.9 | 6681.0 | 5944.5 | 5211.8 | 5055.3 | 4773.4 | 4966.3 | 5054.0 | 5245.6 |
| 50° | 7644.2 | 7640.5 | 7642.9 | 7391.2 | 6746.2 | 5944.5 | 5771.7 | 5476.1 | 5910.7 | 6215.1 | 6558.3 |
| 52.5° | 8320.6 | 8341.9 | 8190.3 | 8123.9 | 7720.6 | 6810.0 | 6619.7 | 6314.1 | 7026.7 | 7506.4 | 8176.5 |
| 55° | 8999.5 | 8981.9 | 8863.0 | 8931.8 | 8740.2 | 7834.6 | 7635.4 | 7392.5 | 8269.2 | 8794.0 | 9801.1 |
| 57.5° | 9399.0 | 9405.2 | 9526.8 | 9863.7 | 9999.0 | 9112.2 | 8931.8 | 8744.0 | 9665.8 | 10037.8 | 11246.5 |
| 60° | 9758.5 | 9787.3 | 10136.7 | 10773.0 | 11140.1 | 10681.6 | 10521.2 | 10338.4 | 10947.1 | 11095.0 | 12501.5 |
| 62.5° | 9871.2 | 9960.1 | 10570.1 | 11522.0 | 12252.3 | 12452.7 | 12253.5 | 11850.2 | 12167.1 | 12109.5 | 13352.0 |
| 65° | 9308.9 | 9430.3 | 10523.8 | 11802.6 | 13245.5 | 14133.6 | 14007.1 | 13258.0 | 13206.7 | 12859.7 | 13491.1 |
| 67.5° | 7828.4 | 7949.8 | 9353.9 | 11213.9 | 13656.4 | 15589.0 | 15462.5 | 14285.1 | 13838.0 | 12929.9 | 12438.9 |
| 70° | 5727.8 | 5804.2 | 7147.0 | 9441.6 | 12831.0 | 16077.5 | 16121.4 | 14786.1 | 13612.5 | 11976.7 | 10213.2 |
| 72.5° | 3300.4 | 3469.5 | 4410.2 | 6642.2 | 10482.5 | 14842.6 | 15146.9 | 13744.0 | 12187.2 | 9991.4 | 7140.7 |
| 75° | 1419.1 | 1422.9 | 2039.1 | 3663.6 | 7099.4 | 11930.3 | 12224.7 | 11393.0 | 9570.6 | 6909.0 | 3812.7 |
| 77.5° | 675.2 | 687.6 | 896.8 | 1635.8 | 3907.9 | 8242.9 | 9037.0 | 8048.8 | 6121.1 | 3319.2 | 1440.4 |
| 80° | 438.4 | 447.2 | 548.6 | 811.6 | 1916.4 | 4779.7 | 5333.3 | 4643.2 | 2700.5 | 1186.1 | 621.2 |
| 82.5° | 265.5 | 268.0 | 367.0 | 496.0 | 1054.6 | 2164.4 | 2551.4 | 2015.3 | 1152.3 | 710.2 | 365.8 |
| 85° | 161.6 | 162.8 | 222.9 | 306.9 | 640.1 | 747.7 | 767.8 | 761.5 | 676.3 | 464.7 | 195.4 |
| 87.5° | 77.6 | 80.1 | 115.2 | 145.3 | 251.8 | 231.7 | 219.2 | 254.2 | 319.4 | 250.5 | 83.9 |
| 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: GLAN-SA4C-840-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 | 2349.8 |
| 2.5° | 2347.2 | 2343.5 | 2334.7 | 2331.0 | 2328.5 | 2329.7 | 2328.5 | 2328.5 | 2329.7 | 2329.7 | 2329.7 |
| 5° | 2358.5 | 2352.3 | 2338.5 | 2338.5 | 2346.0 | 2363.5 | 2379.8 | 2392.3 | 2406.1 | 2404.8 | 2404.8 |
| 7.5° | 2407.4 | 2396.1 | 2379.8 | 2384.8 | 2403.6 | 2431.2 | 2460.0 | 2487.5 | 2515.1 | 2517.6 | 2516.4 |
| 10° | 2478.8 | 2467.5 | 2449.9 | 2456.2 | 2486.2 | 2527.6 | 2564.0 | 2604.0 | 2634.1 | 2642.8 | 2640.3 |
| 12.5° | 2560.2 | 2537.6 | 2522.6 | 2540.2 | 2587.8 | 2642.8 | 2677.9 | 2707.9 | 2729.3 | 2741.8 | 2736.8 |
| 15° | 2642.8 | 2621.6 | 2604.0 | 2640.3 | 2697.9 | 2749.3 | 2766.8 | 2771.9 | 2775.6 | 2788.2 | 2785.6 |
| 17.5° | 2723.0 | 2694.2 | 2687.9 | 2735.5 | 2790.6 | 2813.2 | 2803.1 | 2781.9 | 2765.6 | 2775.6 | 2774.4 |
| 20° | 2794.4 | 2771.9 | 2769.3 | 2816.9 | 2838.2 | 2816.9 | 2774.4 | 2736.8 | 2707.9 | 2710.5 | 2709.2 |
| 22.5° | 2862.0 | 2844.5 | 2847.0 | 2867.1 | 2833.2 | 2760.6 | 2690.4 | 2639.1 | 2607.8 | 2614.0 | 2617.8 |
| 25° | 2937.2 | 2919.6 | 2925.9 | 2893.4 | 2781.9 | 2655.4 | 2553.9 | 2510.0 | 2497.5 | 2510.0 | 2518.9 |
| 27.5° | 3034.9 | 3023.6 | 3019.9 | 2894.6 | 2690.4 | 2500.0 | 2384.8 | 2368.5 | 2379.8 | 2407.4 | 2421.2 |
| 30° | 3140.1 | 3140.1 | 3120.0 | 2873.3 | 2565.2 | 2313.4 | 2213.3 | 2215.7 | 2254.6 | 2293.4 | 2307.2 |
| 32.5° | 3241.6 | 3262.8 | 3200.3 | 2815.7 | 2403.6 | 2131.9 | 2055.4 | 2057.9 | 2091.7 | 2139.3 | 2151.9 |
| 35° | 3325.5 | 3386.9 | 3269.1 | 2710.5 | 2213.3 | 1979.0 | 1921.3 | 1887.5 | 1888.8 | 1925.1 | 1935.1 |
| 37.5° | 3440.7 | 3554.7 | 3309.2 | 2553.9 | 2010.3 | 1848.8 | 1783.6 | 1724.7 | 1685.9 | 1670.9 | 1670.9 |
| 40° | 3641.1 | 3809.0 | 3319.2 | 2322.2 | 1818.7 | 1724.7 | 1632.0 | 1561.9 | 1486.7 | 1419.1 | 1406.6 |
| 42.5° | 3980.5 | 4192.2 | 3299.2 | 2055.4 | 1645.8 | 1588.2 | 1498.0 | 1411.6 | 1307.7 | 1212.5 | 1204.9 |
| 45° | 4581.8 | 4690.8 | 3245.3 | 1778.6 | 1491.8 | 1456.7 | 1369.0 | 1275.0 | 1164.9 | 1079.7 | 1073.5 |
| 47.5° | 5545.0 | 5390.9 | 3173.9 | 1533.1 | 1351.5 | 1341.5 | 1273.9 | 1164.9 | 1054.6 | 995.7 | 989.5 |
| 50° | 6951.5 | 6493.1 | 3163.9 | 1355.3 | 1238.8 | 1243.8 | 1188.7 | 1088.4 | 992.0 | 943.2 | 935.6 |
| 52.5° | 8645.0 | 7824.6 | 3230.3 | 1230.0 | 1139.8 | 1158.6 | 1131.1 | 1038.4 | 953.2 | 911.8 | 904.3 |
| 55° | 10288.3 | 9022.0 | 3270.4 | 1132.3 | 1047.1 | 1082.2 | 1086.0 | 1008.3 | 930.7 | 889.3 | 884.3 |
| 57.5° | 11622.3 | 9923.8 | 3092.5 | 1043.3 | 967.0 | 1020.8 | 1048.4 | 990.8 | 919.4 | 888.0 | 883.0 |
| 60° | 12550.4 | 10349.7 | 2586.5 | 964.5 | 908.1 | 971.9 | 1034.6 | 992.0 | 946.9 | 950.7 | 953.2 |
| 62.5° | 12845.9 | 10160.5 | 1940.2 | 905.6 | 868.0 | 955.7 | 1057.1 | 1043.3 | 997.0 | 1025.9 | 1030.8 |
| 65° | 12356.2 | 9379.0 | 1406.6 | 859.2 | 832.9 | 967.0 | 1124.8 | 1080.9 | 979.5 | 1000.8 | 1000.8 |
| 67.5° | 10716.7 | 8080.1 | 1094.7 | 816.6 | 792.9 | 988.3 | 1192.4 | 1077.2 | 938.1 | 963.2 | 940.7 |
| 70° | 8500.9 | 6250.1 | 911.8 | 769.1 | 750.3 | 957.0 | 1198.7 | 1038.4 | 889.3 | 894.3 | 851.7 |
| 72.5° | 5641.4 | 4109.5 | 784.1 | 723.9 | 685.2 | 860.5 | 1147.3 | 988.3 | 841.7 | 812.9 | 770.3 |
| 75° | 2764.4 | 2049.2 | 683.9 | 667.6 | 600.0 | 749.0 | 1077.2 | 940.7 | 790.4 | 745.3 | 721.5 |
| 77.5° | 1070.9 | 871.8 | 583.7 | 596.2 | 522.3 | 660.1 | 984.5 | 873.0 | 722.7 | 661.4 | 642.5 |
| 80° | 519.8 | 494.8 | 478.4 | 497.3 | 429.6 | 562.4 | 899.3 | 814.2 | 660.1 | 592.5 | 564.9 |
| 82.5° | 323.1 | 305.6 | 367.0 | 387.0 | 330.7 | 513.5 | 852.9 | 764.0 | 581.2 | 491.0 | 468.4 |
| 85° | 164.1 | 175.3 | 245.5 | 264.3 | 236.7 | 408.3 | 702.7 | 573.6 | 419.6 | 348.2 | 350.7 |
| 87.5° | 62.7 | 83.9 | 129.0 | 139.0 | 126.5 | 215.5 | 387.0 | 334.5 | 269.3 | 182.8 | 169.1 |
| 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)