

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: P648924

Luminaire Tested: **GLAN-SA5C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23322.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

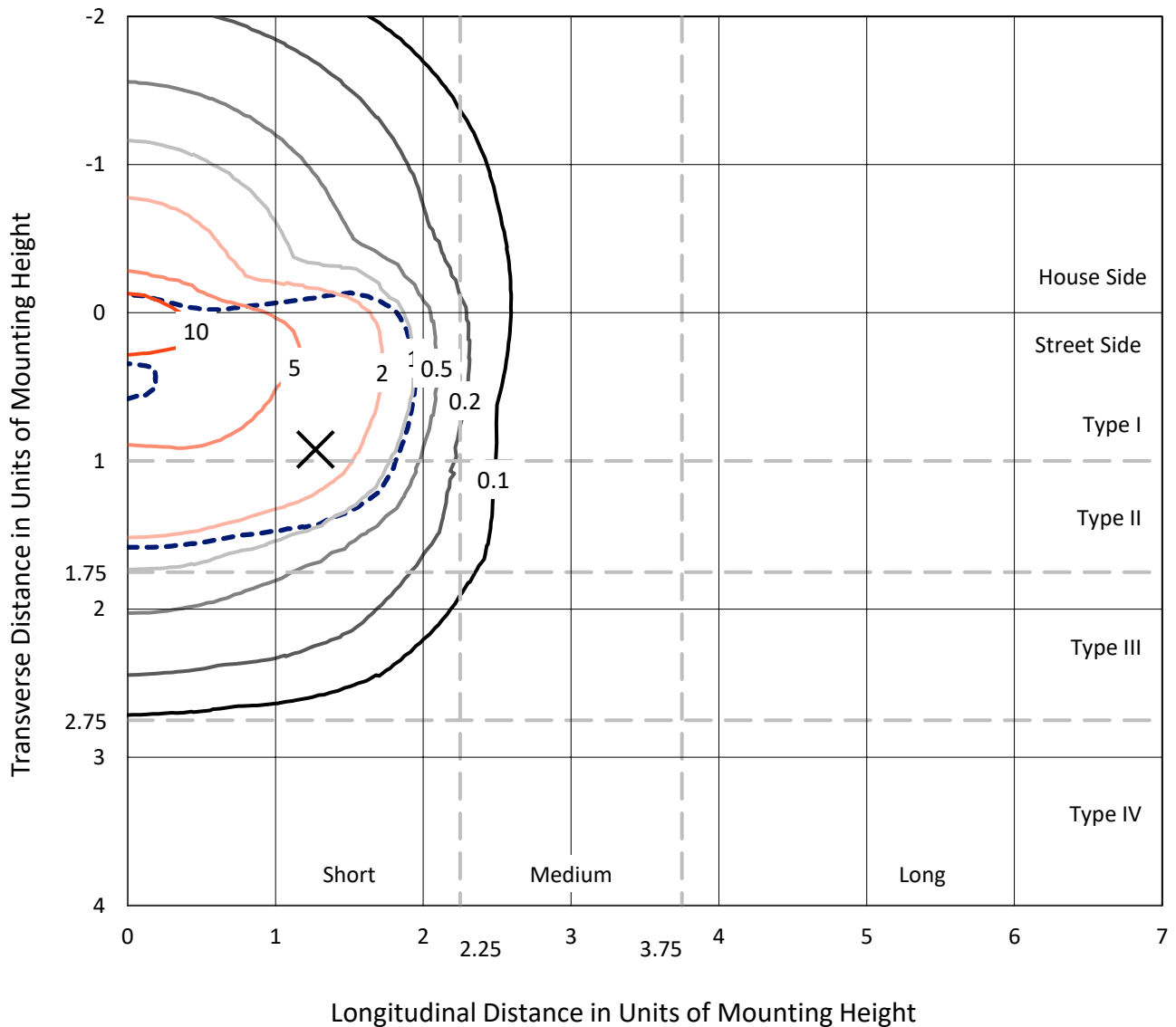
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

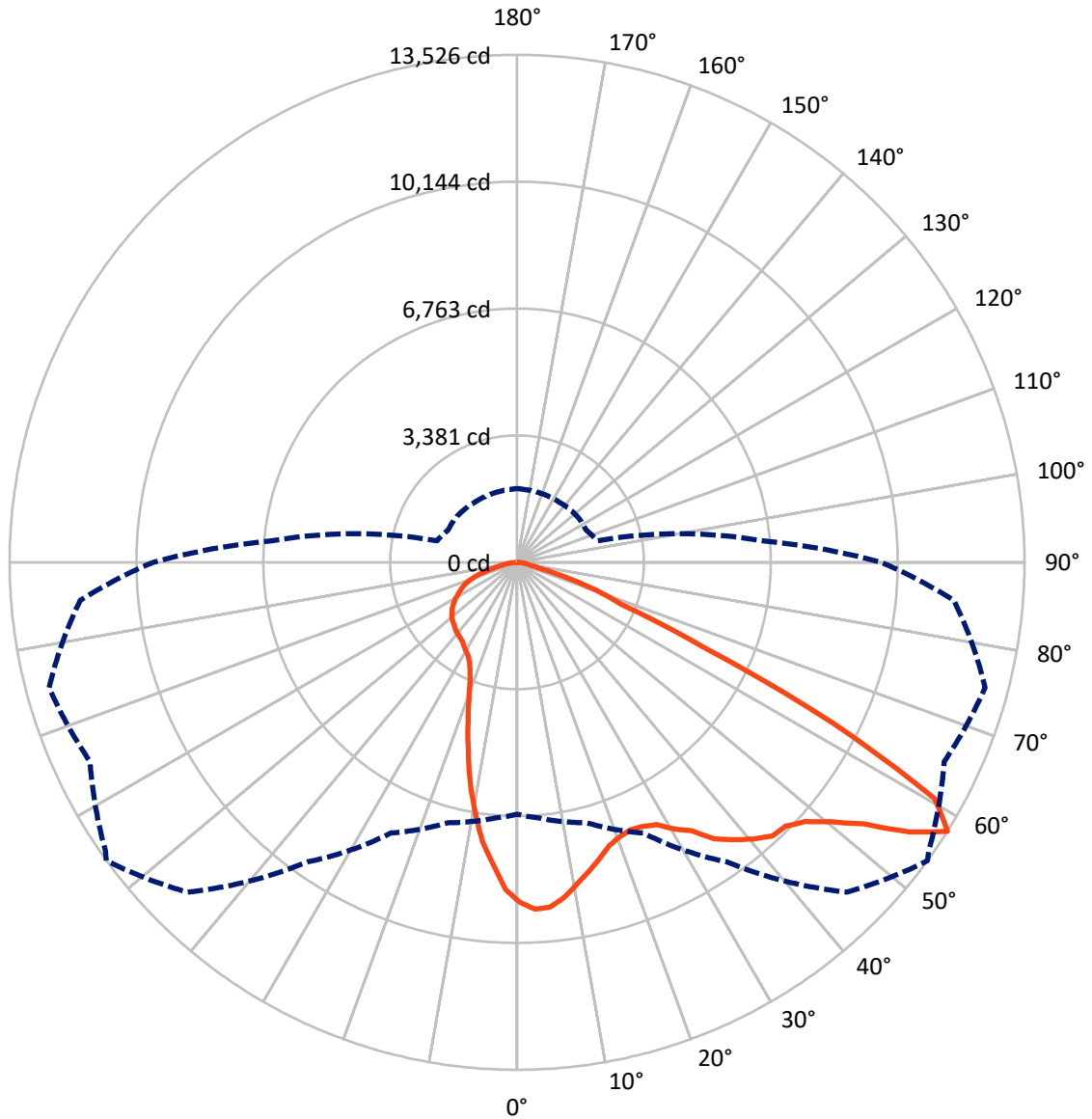
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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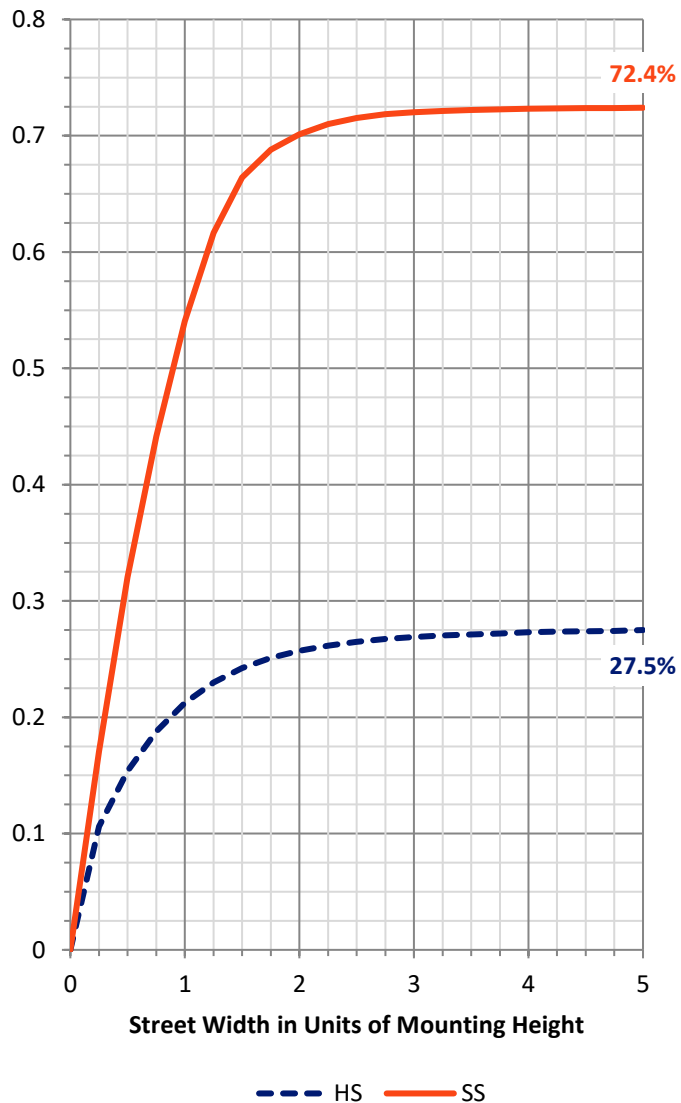
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6452.3 | 0.0 | 6452.3 |
| | % Fixture | 27.7 | 0.0 | 27.7 |
| Street Side | Lumens | 16870.2 | 0.0 | 16870.2 |
| | % Fixture | 72.3 | 0.0 | 72.3 |
| Total | Lumens | 23322.5 | 0.0 | 23322.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 781.8 | 3.4 |
| 10°-20° | 1810.1 | 7.8 |
| 20°-30° | 2543.2 | 10.9 |
| 30°-40° | 3555.5 | 15.2 |
| 40°-50° | 4813.4 | 20.6 |
| 50°-60° | 5862.9 | 25.1 |
| 60°-70° | 3053.7 | 13.1 |
| 70°-80° | 782.5 | 3.4 |
| 80°-90° | 119.4 | 0.5 |
| 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° | 23322.5 | 100.0 |
| 0°-180° | 23322.5 | 100.0 |

Coefficient of Utilization



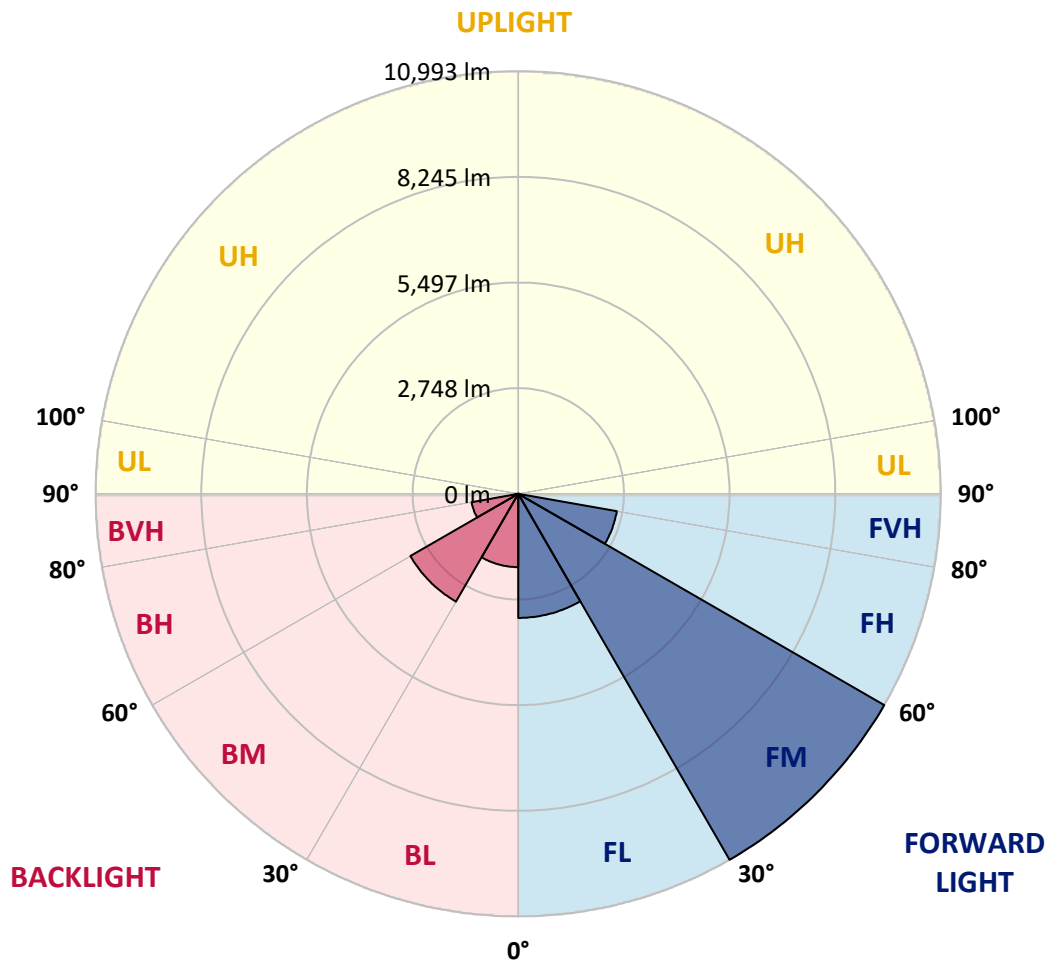
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3228.1 | 13.8 | | | |
| FM (30°-60°) | 10993.5 | 47.1 | | | |
| FH (60°-80°) | 2603.4 | 11.2 | | | G2/5000 |
| FVH (80°-90°) | 45.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1907.0 | 8.2 | B3/2500 | | |
| BM (30°-60°) | 3238.3 | 13.9 | B3/5000 | | |
| BH (60°-80°) | 1232.7 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 74.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 |
| 2.5° | 9322.9 | 9287.0 | 9293.0 | 9341.0 | 9281.0 | 9257.0 | 9257.0 | 9140.1 | 9149.1 | 9068.2 | 9047.2 |
| 5° | 9107.2 | 9023.2 | 9080.1 | 9152.1 | 9164.1 | 9188.0 | 9227.0 | 9197.0 | 9113.1 | 9026.2 | 8885.3 |
| 7.5° | 8543.5 | 8618.5 | 8639.5 | 8690.4 | 8798.3 | 8897.3 | 9020.2 | 8936.3 | 8933.2 | 8846.3 | 8762.4 |
| 10° | 8048.9 | 8004.0 | 8117.9 | 8192.8 | 8372.7 | 8537.6 | 8726.5 | 8717.5 | 8762.4 | 8663.5 | 8519.6 |
| 12.5° | 7557.3 | 7521.3 | 7575.3 | 7746.1 | 7998.0 | 8237.8 | 8462.6 | 8378.6 | 8618.5 | 8600.6 | 8291.7 |
| 15° | 7035.7 | 7062.7 | 7140.6 | 7299.5 | 7629.2 | 7917.0 | 8201.8 | 8204.8 | 8417.6 | 8489.6 | 8075.9 |
| 17.5° | 6670.0 | 6640.0 | 6738.9 | 6975.7 | 7269.5 | 7614.3 | 7938.0 | 8004.0 | 8330.7 | 8372.7 | 8009.9 |
| 20° | 6397.2 | 6439.2 | 6568.0 | 6688.0 | 7026.7 | 7443.4 | 7809.1 | 7833.1 | 8312.7 | 8426.6 | 7905.0 |
| 22.5° | 6331.3 | 6307.2 | 6349.2 | 6544.1 | 6822.8 | 7275.5 | 7740.2 | 7830.1 | 8309.7 | 8408.6 | 7707.2 |
| 25° | 6262.3 | 6340.2 | 6337.2 | 6532.1 | 6735.9 | 7140.6 | 7797.1 | 7896.1 | 8468.6 | 8501.6 | 7734.2 |
| 27.5° | 6418.2 | 6409.2 | 6493.1 | 6508.1 | 6759.9 | 7176.6 | 7917.0 | 7992.0 | 8732.4 | 8705.5 | 7755.1 |
| 30° | 6574.1 | 6529.0 | 6580.0 | 6756.9 | 6873.8 | 7383.5 | 8246.8 | 8240.8 | 9074.2 | 9056.2 | 7821.1 |
| 32.5° | 6765.9 | 6744.9 | 6777.9 | 6933.8 | 7131.6 | 7659.2 | 8525.5 | 8702.4 | 9421.9 | 9535.8 | 8048.9 |
| 35° | 6801.8 | 6888.8 | 6966.7 | 7176.6 | 7458.4 | 8105.9 | 9050.1 | 9197.0 | 9823.6 | 10180.3 | 8483.6 |
| 37.5° | 7029.7 | 7062.7 | 7245.6 | 7617.3 | 7875.1 | 8702.4 | 9382.9 | 9475.9 | 10189.3 | 10594.0 | 8942.3 |
| 40° | 7272.5 | 7311.5 | 7587.3 | 7977.0 | 8330.7 | 9092.1 | 9694.7 | 9724.7 | 10306.2 | 10911.8 | 9242.1 |
| 42.5° | 7602.3 | 7638.2 | 7911.0 | 8399.6 | 8873.3 | 9424.9 | 9970.5 | 10003.5 | 10297.2 | 11277.5 | 9718.7 |
| 45° | 7944.0 | 8030.9 | 8351.7 | 8906.3 | 9332.0 | 9814.6 | 10033.4 | 10168.4 | 10381.2 | 11604.2 | 10105.4 |
| 47.5° | 8423.7 | 8504.6 | 8768.4 | 9311.0 | 9808.6 | 10156.4 | 10324.2 | 10456.1 | 10582.0 | 11889.1 | 10354.2 |
| 50° | 8933.2 | 8948.3 | 9269.0 | 9760.6 | 10126.4 | 10543.0 | 10866.8 | 10911.8 | 10845.8 | 12218.8 | 10776.9 |
| 52.5° | 9308.0 | 9355.9 | 9604.7 | 10084.4 | 10630.0 | 11142.6 | 11586.3 | 11634.2 | 11505.3 | 12341.7 | 10920.7 |
| 55° | 8687.5 | 8660.4 | 9065.2 | 9703.7 | 10968.7 | 12036.0 | 12680.5 | 12716.4 | 11985.0 | 12722.4 | 11391.4 |
| 57.5° | 6714.9 | 6843.8 | 7188.6 | 7959.0 | 9745.7 | 12431.6 | 13525.8 | 13396.9 | 12560.5 | 12914.3 | 11691.2 |
| 60° | 4880.3 | 4850.4 | 5081.2 | 5596.8 | 7344.5 | 10713.9 | 12788.3 | 12920.3 | 12089.9 | 11640.2 | 9640.8 |
| 62.5° | 3975.0 | 3933.0 | 3951.0 | 3969.0 | 4739.4 | 7110.7 | 9466.9 | 9463.9 | 9311.0 | 8366.7 | 6502.1 |
| 65° | 3177.6 | 3276.5 | 3285.5 | 3420.5 | 3519.4 | 4247.8 | 5485.9 | 5779.6 | 5033.2 | 4127.9 | 2994.7 |
| 67.5° | 2395.2 | 2359.3 | 2479.1 | 2958.8 | 3144.6 | 3066.7 | 2994.7 | 3027.7 | 2152.4 | 1552.8 | 1462.9 |
| 70° | 1411.9 | 1397.0 | 1540.9 | 2062.4 | 2590.1 | 2437.2 | 2257.3 | 2260.3 | 1477.9 | 1085.2 | 1208.1 |
| 72.5° | 773.4 | 770.4 | 800.4 | 1046.2 | 1471.9 | 1528.9 | 1355.0 | 1397.0 | 881.3 | 878.4 | 944.3 |
| 75° | 431.7 | 422.7 | 413.7 | 461.7 | 530.6 | 560.5 | 572.5 | 578.6 | 605.6 | 677.5 | 704.5 |
| 77.5° | 158.9 | 152.9 | 152.9 | 176.9 | 224.8 | 281.8 | 356.7 | 362.8 | 428.7 | 491.6 | 518.6 |
| 80° | 53.9 | 60.0 | 81.0 | 111.0 | 149.9 | 200.8 | 242.8 | 248.8 | 302.8 | 344.8 | 353.8 |
| 82.5° | 33.0 | 35.9 | 53.9 | 77.9 | 107.9 | 140.9 | 179.9 | 182.8 | 224.8 | 251.8 | 263.8 |
| 85° | 15.0 | 18.0 | 30.0 | 48.0 | 69.0 | 92.9 | 95.9 | 95.9 | 92.9 | 95.9 | 90.0 |
| 87.5° | 0.0 | 0.0 | 6.0 | 6.0 | 6.0 | 9.0 | 12.0 | 9.0 | 15.0 | 18.0 | 18.0 |
| 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-SA5C-835-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 | 9065.2 |
| 2.5° | 8984.2 | 8951.3 | 8849.3 | 8759.4 | 8732.4 | 8612.5 | 8435.7 | 8456.6 | 8327.8 | 8387.7 | 8324.7 |
| 5° | 8861.3 | 8750.4 | 8489.6 | 8378.6 | 8087.9 | 7956.0 | 7866.1 | 7641.2 | 7536.3 | 7515.3 | 7425.4 |
| 7.5° | 8546.5 | 8477.6 | 8150.9 | 7851.1 | 7542.3 | 7278.5 | 6939.7 | 6709.0 | 6544.1 | 6499.1 | 6367.2 |
| 10° | 8297.8 | 8144.8 | 7692.2 | 7236.6 | 6795.9 | 6337.2 | 5896.5 | 5551.8 | 5383.9 | 5189.1 | 5123.2 |
| 12.5° | 8051.9 | 7821.1 | 7209.6 | 6625.0 | 6055.4 | 5476.9 | 4943.2 | 4523.6 | 4157.9 | 4070.9 | 4041.0 |
| 15° | 7899.1 | 7497.4 | 6777.9 | 6073.4 | 5264.0 | 4508.6 | 3975.0 | 3699.2 | 3474.4 | 3381.5 | 3447.4 |
| 17.5° | 7698.2 | 7230.5 | 6364.2 | 5425.9 | 4535.6 | 3840.1 | 3393.4 | 3222.6 | 3141.6 | 3150.6 | 3123.6 |
| 20° | 7446.4 | 6978.7 | 5821.6 | 4838.3 | 3885.1 | 3330.5 | 3075.7 | 3012.7 | 3024.7 | 3045.7 | 3036.7 |
| 22.5° | 7266.6 | 6673.0 | 5428.9 | 4238.8 | 3357.5 | 3048.7 | 2943.8 | 2898.8 | 2937.8 | 2955.7 | 2940.8 |
| 25° | 7128.6 | 6412.1 | 4952.2 | 3708.2 | 3051.7 | 2889.8 | 2841.8 | 2838.8 | 2898.8 | 2922.8 | 2907.8 |
| 27.5° | 7002.7 | 6169.3 | 4478.6 | 3303.5 | 2847.8 | 2766.9 | 2751.9 | 2787.9 | 2826.9 | 2850.8 | 2871.8 |
| 30° | 6927.7 | 5983.5 | 4035.0 | 2964.8 | 2745.9 | 2707.0 | 2680.0 | 2712.9 | 2733.9 | 2757.9 | 2745.9 |
| 32.5° | 6999.7 | 5851.6 | 3606.3 | 2772.9 | 2662.0 | 2623.0 | 2659.0 | 2638.0 | 2673.9 | 2694.9 | 2662.0 |
| 35° | 7224.6 | 5734.7 | 3300.5 | 2671.0 | 2566.0 | 2581.1 | 2587.0 | 2578.0 | 2593.1 | 2575.1 | 2614.0 |
| 37.5° | 7446.4 | 5692.7 | 3018.7 | 2584.1 | 2521.1 | 2521.1 | 2515.1 | 2497.1 | 2527.1 | 2521.1 | 2539.1 |
| 40° | 7728.2 | 5719.7 | 2778.9 | 2491.1 | 2479.1 | 2473.1 | 2449.1 | 2446.2 | 2434.2 | 2437.2 | 2443.2 |
| 42.5° | 7974.0 | 5779.6 | 2641.0 | 2431.1 | 2440.1 | 2452.1 | 2407.2 | 2371.2 | 2386.2 | 2356.2 | 2356.2 |
| 45° | 8234.8 | 5833.6 | 2518.1 | 2389.2 | 2380.2 | 2377.2 | 2341.2 | 2320.3 | 2308.3 | 2311.3 | 2338.3 |
| 47.5° | 8645.5 | 5911.6 | 2425.2 | 2332.2 | 2338.3 | 2293.3 | 2284.2 | 2257.3 | 2269.3 | 2287.3 | 2290.3 |
| 50° | 8936.3 | 6076.4 | 2353.2 | 2266.3 | 2287.3 | 2257.3 | 2203.4 | 2191.4 | 2191.4 | 2221.3 | 2215.3 |
| 52.5° | 9140.1 | 6307.2 | 2284.2 | 2194.4 | 2203.4 | 2179.3 | 2161.4 | 2134.4 | 2116.4 | 2158.3 | 2179.3 |
| 55° | 9763.6 | 6691.0 | 2266.3 | 2134.4 | 2131.4 | 2107.4 | 2074.4 | 2047.5 | 2038.5 | 2044.5 | 2086.5 |
| 57.5° | 9703.7 | 6571.0 | 2209.3 | 2029.5 | 2023.5 | 1990.5 | 1957.5 | 1948.5 | 1945.5 | 1951.5 | 1963.5 |
| 60° | 7878.1 | 4853.3 | 1972.5 | 1909.6 | 1900.6 | 1894.5 | 1861.6 | 1825.6 | 1807.6 | 1825.6 | 1810.6 |
| 62.5° | 5213.1 | 3249.5 | 1738.7 | 1765.7 | 1771.7 | 1756.7 | 1702.7 | 1666.8 | 1672.7 | 1693.7 | 1660.7 |
| 65° | 2560.1 | 1909.6 | 1576.8 | 1648.8 | 1654.7 | 1612.7 | 1561.9 | 1519.9 | 1498.9 | 1516.8 | 1501.9 |
| 67.5° | 1462.9 | 1459.9 | 1444.9 | 1519.9 | 1516.8 | 1474.9 | 1394.0 | 1358.0 | 1322.0 | 1328.0 | 1319.0 |
| 70° | 1241.1 | 1265.0 | 1295.0 | 1340.0 | 1337.0 | 1289.1 | 1193.1 | 1166.1 | 1115.1 | 1109.2 | 1094.2 |
| 72.5° | 977.3 | 1019.2 | 1085.2 | 1118.1 | 1091.2 | 1031.2 | 968.3 | 923.3 | 878.4 | 851.4 | 860.4 |
| 75° | 725.4 | 785.4 | 821.4 | 842.4 | 800.4 | 767.4 | 716.4 | 662.5 | 608.5 | 584.6 | 575.6 |
| 77.5° | 527.6 | 545.6 | 578.6 | 593.5 | 566.6 | 533.6 | 503.6 | 449.7 | 398.7 | 365.7 | 356.7 |
| 80° | 368.7 | 380.7 | 404.7 | 404.7 | 404.7 | 389.7 | 350.7 | 296.8 | 263.8 | 233.8 | 227.9 |
| 82.5° | 257.8 | 269.8 | 293.8 | 281.8 | 278.8 | 260.8 | 236.9 | 194.9 | 158.9 | 137.9 | 131.9 |
| 85° | 90.0 | 98.9 | 119.9 | 143.9 | 152.9 | 149.9 | 134.9 | 107.9 | 83.9 | 69.0 | 63.0 |
| 87.5° | 21.0 | 21.0 | 24.0 | 21.0 | 21.0 | 24.0 | 21.0 | 21.0 | 21.0 | 15.0 | 12.0 |
| 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)