

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: P649987

Luminaire Tested: **GLAN-SA6A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18658.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

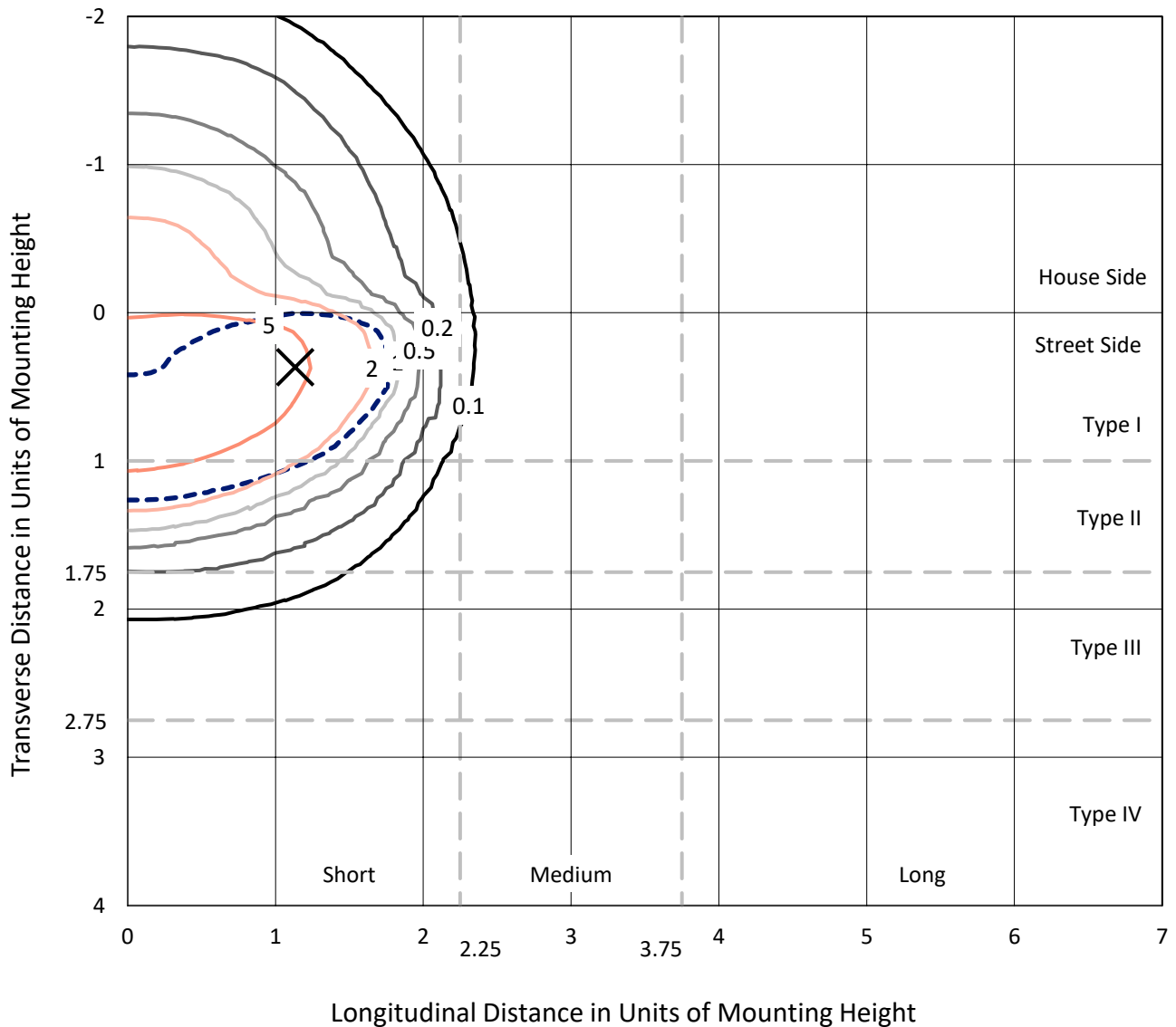
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

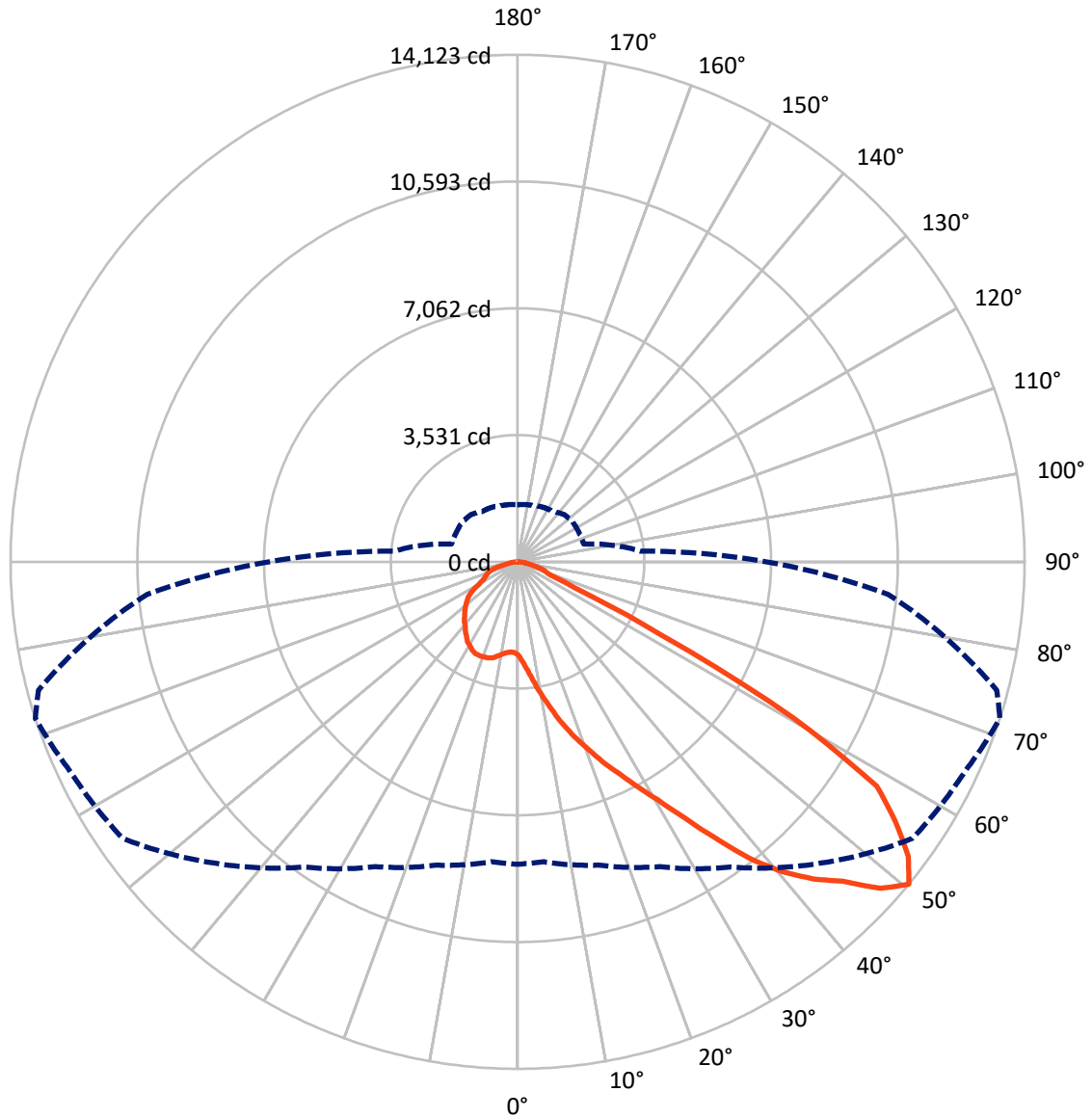
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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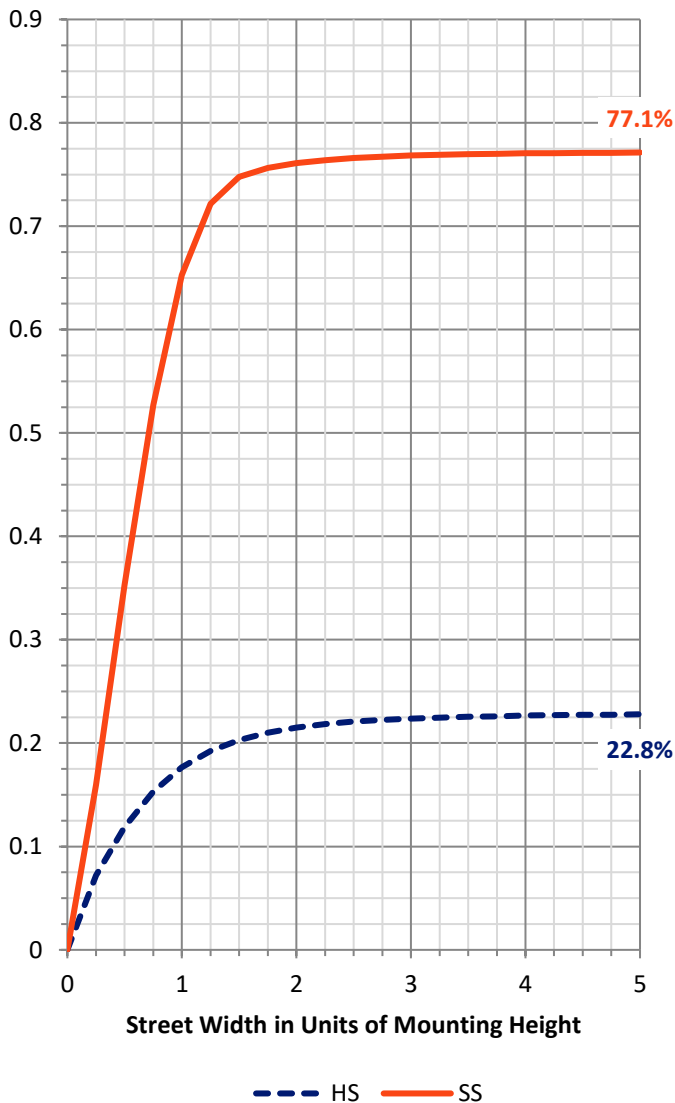
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4274.9 | 0.0 | 4274.9 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 14384.0 | 0.0 | 14384.0 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 18658.9 | 0.0 | 18658.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 305.5 | 1.6 |
| 10°-20° | 1142.2 | 6.1 |
| 20°-30° | 2214.6 | 11.9 |
| 30°-40° | 3668.8 | 19.7 |
| 40°-50° | 5133.5 | 27.5 |
| 50°-60° | 4330.7 | 23.2 |
| 60°-70° | 1320.0 | 7.1 |
| 70°-80° | 463.1 | 2.5 |
| 80°-90° | 80.5 | 0.4 |
| 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° | 18658.9 | 100.0 |
| 0°-180° | 18658.9 | 100.0 |



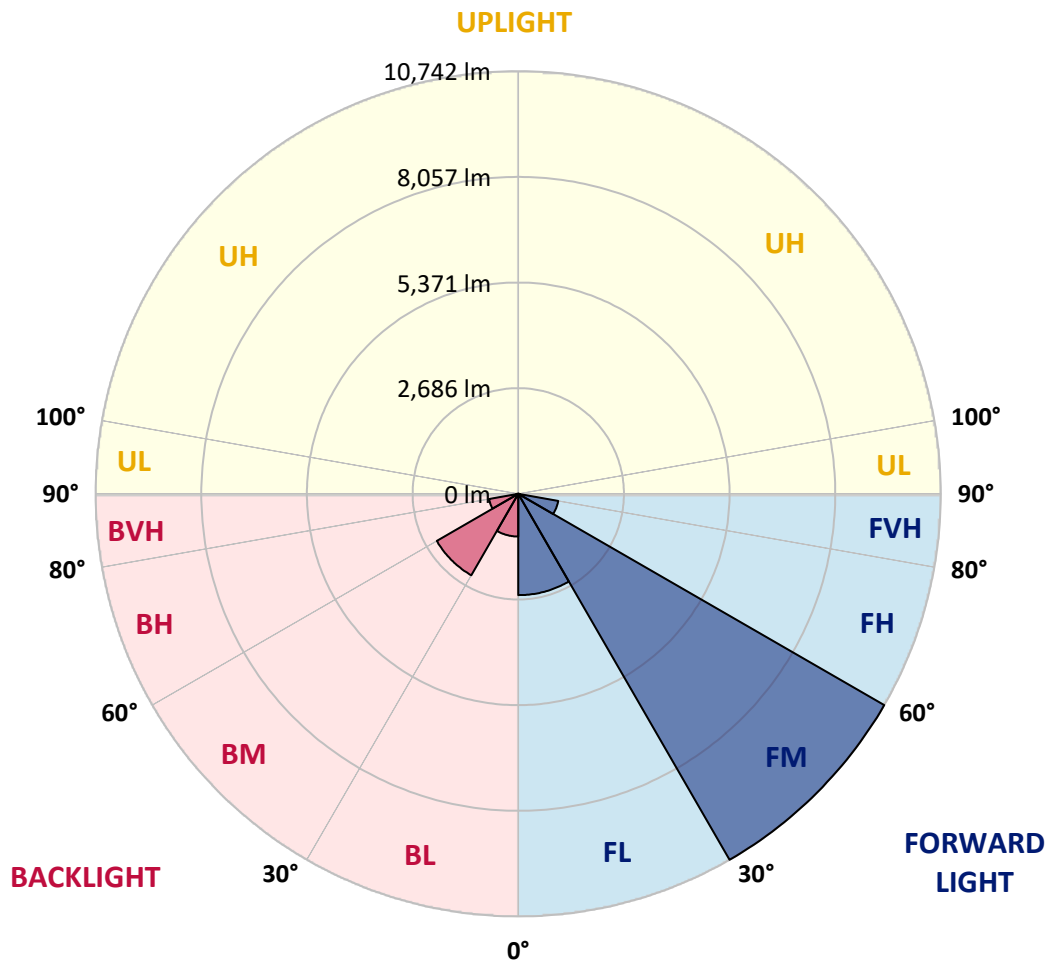
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2575.6 | 13.8 | | | |
| FM (30°-60°) | 10742.4 | 57.6 | | | |
| FH (60°-80°) | 1029.9 | 5.5 | | | G1/1800 |
| FVH (80°-90°) | 36.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1086.7 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2390.6 | 12.8 | B2/2500 | | |
| BH (60°-80°) | 753.2 | 4.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 44.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 |
| 2.5° | 3340.9 | 3320.2 | 3257.8 | 3237.0 | 3163.2 | 3029.3 | 2983.1 | 2846.8 | 2789.1 | 2736.0 | 2673.6 |
| 5° | 4225.2 | 4128.3 | 4121.3 | 4003.6 | 3832.7 | 3733.4 | 3437.9 | 3239.3 | 3056.9 | 2964.6 | 2793.7 |
| 7.5° | 4788.6 | 4790.9 | 4790.9 | 4693.9 | 4557.7 | 4306.0 | 4040.5 | 3682.6 | 3407.9 | 3271.7 | 2980.7 |
| 10° | 5324.2 | 5278.0 | 5252.7 | 5243.4 | 5151.1 | 4906.4 | 4622.4 | 4179.0 | 3802.7 | 3643.4 | 3121.6 |
| 12.5° | 5702.9 | 5663.7 | 5721.4 | 5691.4 | 5624.4 | 5465.1 | 5197.2 | 4691.7 | 4220.6 | 4005.9 | 3347.9 |
| 15° | 5883.0 | 5910.7 | 5956.9 | 6040.0 | 6010.0 | 5949.9 | 5654.4 | 5218.1 | 4670.8 | 4428.4 | 3548.7 |
| 17.5° | 6160.1 | 6083.8 | 6139.3 | 6243.2 | 6326.3 | 6298.6 | 6130.0 | 5599.0 | 5116.4 | 4818.6 | 3818.8 |
| 20° | 6354.0 | 6310.1 | 6337.8 | 6457.9 | 6520.3 | 6677.3 | 6589.5 | 6097.7 | 5543.6 | 5229.6 | 4137.5 |
| 22.5° | 6908.1 | 6843.5 | 6753.5 | 6771.9 | 6795.0 | 6905.8 | 6926.6 | 6644.9 | 6040.0 | 5707.5 | 4439.9 |
| 25° | 7591.6 | 7531.5 | 7425.3 | 7316.8 | 7249.9 | 7229.0 | 7300.6 | 7074.4 | 6515.7 | 6171.6 | 4765.5 |
| 27.5° | 8344.3 | 8242.6 | 8175.7 | 7951.8 | 7771.7 | 7743.9 | 7709.3 | 7587.0 | 7079.0 | 6707.3 | 5132.6 |
| 30° | 9076.1 | 8995.3 | 8905.3 | 8547.5 | 8360.4 | 8330.4 | 8159.6 | 8194.2 | 7690.9 | 7277.5 | 5548.2 |
| 32.5° | 9630.3 | 9637.2 | 9431.7 | 9161.6 | 8986.1 | 8826.8 | 8764.4 | 8863.7 | 8475.8 | 8143.4 | 6012.3 |
| 35° | 10078.2 | 10099.0 | 9902.8 | 9658.0 | 9468.7 | 9579.5 | 9551.8 | 9597.9 | 9413.2 | 9006.9 | 6552.5 |
| 37.5° | 10514.6 | 10410.7 | 10200.6 | 10082.8 | 9983.6 | 10165.9 | 10401.5 | 10440.7 | 10475.4 | 9997.4 | 7180.6 |
| 40° | 10586.2 | 10595.4 | 10473.0 | 10556.2 | 10431.4 | 10706.2 | 11253.4 | 11202.6 | 11343.5 | 10925.6 | 7861.7 |
| 42.5° | 10484.6 | 10505.4 | 10553.8 | 10671.6 | 10971.7 | 11301.9 | 12114.7 | 11906.8 | 12077.7 | 11705.9 | 8524.4 |
| 45° | 10318.3 | 10232.9 | 10292.9 | 10740.9 | 11260.3 | 11994.5 | 12902.0 | 12740.3 | 12684.9 | 12373.2 | 9313.9 |
| 47.5° | 9524.1 | 9611.8 | 9798.9 | 10350.6 | 11131.0 | 12114.7 | 13460.7 | 13423.8 | 13590.0 | 13370.7 | 10032.0 |
| 50° | 8422.7 | 8388.1 | 8748.3 | 9369.4 | 10376.1 | 11879.1 | 13430.7 | 13765.5 | 14123.4 | 13818.5 | 10353.0 |
| 52.5° | 6307.8 | 6492.6 | 6801.9 | 7573.1 | 9009.2 | 10595.4 | 12775.0 | 13333.7 | 13624.6 | 13560.0 | 10094.4 |
| 55° | 3987.4 | 4042.9 | 4229.8 | 5146.5 | 6439.5 | 8503.5 | 10951.0 | 12246.2 | 12765.7 | 13008.1 | 9856.6 |
| 57.5° | 1937.1 | 1833.2 | 2061.8 | 2798.4 | 3719.6 | 5719.0 | 8445.8 | 10667.0 | 11796.0 | 12234.7 | 9339.4 |
| 60° | 1011.3 | 1050.6 | 1140.6 | 1403.8 | 1923.3 | 2969.2 | 5264.2 | 7109.0 | 8833.7 | 9507.9 | 7079.0 |
| 62.5° | 838.1 | 852.0 | 912.0 | 1043.6 | 1279.1 | 1708.6 | 2687.5 | 3465.6 | 4504.6 | 5111.8 | 4026.7 |
| 65° | 711.1 | 718.1 | 782.7 | 870.5 | 1020.5 | 1202.9 | 1383.0 | 1447.7 | 1752.4 | 1798.6 | 1431.5 |
| 67.5° | 593.4 | 600.3 | 669.5 | 752.7 | 849.6 | 898.2 | 944.3 | 939.7 | 974.4 | 960.5 | 958.2 |
| 70° | 457.2 | 464.1 | 535.7 | 623.4 | 671.9 | 644.2 | 787.3 | 819.6 | 833.5 | 845.0 | 863.5 |
| 72.5° | 330.2 | 344.1 | 399.4 | 461.7 | 436.4 | 501.0 | 648.8 | 697.3 | 715.7 | 722.7 | 745.7 |
| 75° | 240.1 | 244.8 | 258.6 | 240.1 | 277.0 | 348.7 | 457.2 | 517.2 | 540.3 | 547.2 | 581.8 |
| 77.5° | 106.2 | 108.5 | 110.8 | 138.5 | 177.8 | 217.0 | 272.5 | 321.0 | 353.3 | 362.5 | 371.7 |
| 80° | 55.4 | 57.7 | 71.6 | 94.7 | 127.0 | 159.3 | 198.6 | 226.3 | 247.0 | 249.4 | 258.6 |
| 82.5° | 34.6 | 37.0 | 50.8 | 66.9 | 90.0 | 117.8 | 145.5 | 168.6 | 184.7 | 187.0 | 189.3 |
| 85° | 16.1 | 20.7 | 30.0 | 41.6 | 60.1 | 76.2 | 78.5 | 66.9 | 71.6 | 73.9 | 69.3 |
| 87.5° | 4.6 | 6.9 | 9.2 | 6.9 | 9.2 | 9.2 | 11.5 | 13.9 | 13.9 | 13.9 | 16.1 |
| 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-SA6A-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 | 2597.4 |
| 2.5° | 2639.0 | 2618.3 | 2537.5 | 2507.4 | 2428.9 | 2442.8 | 2401.2 | 2398.9 | 2389.7 | 2387.4 | 2385.1 |
| 5° | 2703.7 | 2639.0 | 2542.1 | 2468.2 | 2424.3 | 2419.7 | 2389.7 | 2389.7 | 2398.9 | 2405.8 | 2389.7 |
| 7.5° | 2809.9 | 2736.0 | 2572.1 | 2502.8 | 2463.6 | 2456.7 | 2435.8 | 2419.7 | 2440.5 | 2433.6 | 2415.1 |
| 10° | 2932.3 | 2803.0 | 2629.8 | 2569.8 | 2505.1 | 2488.9 | 2488.9 | 2495.9 | 2461.3 | 2472.8 | 2454.3 |
| 12.5° | 3068.5 | 2895.3 | 2703.7 | 2634.4 | 2558.2 | 2549.0 | 2544.4 | 2493.5 | 2512.0 | 2502.8 | 2456.7 |
| 15° | 3241.6 | 3001.6 | 2798.4 | 2680.6 | 2615.9 | 2574.4 | 2514.4 | 2505.1 | 2493.5 | 2470.5 | 2449.7 |
| 17.5° | 3428.7 | 3117.0 | 2842.2 | 2694.5 | 2597.4 | 2567.5 | 2521.3 | 2472.8 | 2438.2 | 2442.8 | 2426.6 |
| 20° | 3588.0 | 3223.1 | 2858.3 | 2708.3 | 2583.6 | 2525.9 | 2454.3 | 2424.3 | 2387.4 | 2385.1 | 2382.7 |
| 22.5° | 3777.3 | 3366.4 | 2881.4 | 2671.4 | 2542.1 | 2482.0 | 2433.6 | 2380.5 | 2355.0 | 2322.7 | 2338.9 |
| 25° | 4003.6 | 3421.7 | 2886.1 | 2650.6 | 2512.0 | 2405.8 | 2380.5 | 2322.7 | 2313.5 | 2267.3 | 2276.6 |
| 27.5° | 4167.5 | 3451.8 | 2849.2 | 2585.9 | 2442.8 | 2362.0 | 2315.8 | 2274.2 | 2258.1 | 2223.4 | 2214.2 |
| 30° | 4386.8 | 3498.0 | 2770.6 | 2505.1 | 2373.5 | 2283.5 | 2255.7 | 2246.5 | 2200.4 | 2163.4 | 2158.8 |
| 32.5° | 4636.2 | 3528.0 | 2719.8 | 2422.0 | 2301.9 | 2232.6 | 2246.5 | 2202.7 | 2145.0 | 2112.6 | 2103.4 |
| 35° | 4834.8 | 3539.5 | 2592.8 | 2327.3 | 2253.5 | 2209.5 | 2193.4 | 2184.2 | 2101.1 | 2071.0 | 2047.9 |
| 37.5° | 5137.3 | 3514.1 | 2486.7 | 2260.4 | 2200.4 | 2184.2 | 2170.3 | 2108.0 | 2013.3 | 1969.5 | 1937.1 |
| 40° | 5490.5 | 3507.1 | 2350.4 | 2165.7 | 2149.6 | 2168.0 | 2126.5 | 2029.5 | 1897.9 | 1849.4 | 1826.3 |
| 42.5° | 5829.9 | 3555.7 | 2265.0 | 2115.0 | 2094.1 | 2101.1 | 2043.3 | 1897.9 | 1833.2 | 1805.5 | 1768.6 |
| 45° | 6397.9 | 3657.2 | 2124.1 | 2036.4 | 2027.2 | 2022.6 | 1953.3 | 1800.9 | 1763.9 | 1729.3 | 1722.4 |
| 47.5° | 6910.4 | 3590.3 | 2034.1 | 1955.6 | 1964.9 | 1939.4 | 1791.7 | 1743.2 | 1701.6 | 1667.0 | 1655.5 |
| 50° | 6940.4 | 3430.9 | 1907.2 | 1893.3 | 1895.6 | 1851.7 | 1710.9 | 1678.5 | 1625.4 | 1602.3 | 1586.2 |
| 52.5° | 6783.4 | 3170.1 | 1789.4 | 1794.0 | 1800.9 | 1729.3 | 1611.6 | 1588.5 | 1544.6 | 1512.3 | 1503.0 |
| 55° | 6342.5 | 2763.7 | 1673.9 | 1692.4 | 1710.9 | 1574.6 | 1537.7 | 1479.9 | 1445.3 | 1399.1 | 1401.5 |
| 57.5° | 5587.5 | 2225.8 | 1512.3 | 1542.4 | 1581.6 | 1431.5 | 1403.8 | 1332.2 | 1281.5 | 1244.5 | 1239.9 |
| 60° | 3745.0 | 1583.9 | 1269.9 | 1281.5 | 1369.2 | 1309.1 | 1306.8 | 1235.3 | 1166.0 | 1133.6 | 1115.1 |
| 62.5° | 2209.5 | 1209.8 | 1096.7 | 1085.2 | 1082.9 | 1117.5 | 1175.2 | 1149.8 | 1059.8 | 997.5 | 1015.9 |
| 65° | 1156.7 | 1045.9 | 1020.5 | 981.3 | 958.2 | 948.9 | 992.8 | 1004.4 | 944.3 | 877.4 | 872.7 |
| 67.5° | 972.0 | 972.0 | 951.3 | 937.4 | 905.1 | 865.8 | 838.1 | 801.2 | 791.9 | 773.4 | 750.3 |
| 70° | 884.3 | 907.4 | 900.4 | 868.1 | 840.4 | 796.5 | 725.0 | 664.9 | 607.2 | 586.5 | 600.3 |
| 72.5° | 771.2 | 794.3 | 794.3 | 778.1 | 741.1 | 674.2 | 604.9 | 535.7 | 487.2 | 450.2 | 445.6 |
| 75° | 593.4 | 604.9 | 632.7 | 614.2 | 565.6 | 524.1 | 452.6 | 380.9 | 334.8 | 300.1 | 293.2 |
| 77.5° | 378.7 | 397.1 | 397.1 | 394.8 | 360.2 | 321.0 | 274.8 | 223.9 | 189.3 | 164.0 | 157.0 |
| 80° | 251.7 | 263.2 | 272.5 | 263.2 | 240.1 | 210.1 | 175.5 | 140.9 | 115.4 | 94.7 | 90.0 |
| 82.5° | 184.7 | 198.6 | 205.5 | 196.2 | 173.2 | 150.1 | 124.7 | 99.3 | 73.9 | 57.7 | 53.1 |
| 85° | 71.6 | 73.9 | 83.2 | 99.3 | 96.9 | 94.7 | 76.2 | 55.4 | 41.6 | 30.0 | 27.7 |
| 87.5° | 18.5 | 16.1 | 18.5 | 18.5 | 16.1 | 13.9 | 13.9 | 13.9 | 13.9 | 6.9 | 9.2 |
| 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)