

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: P458383

Luminaire Tested: **GLAN-SA9D-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60451 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

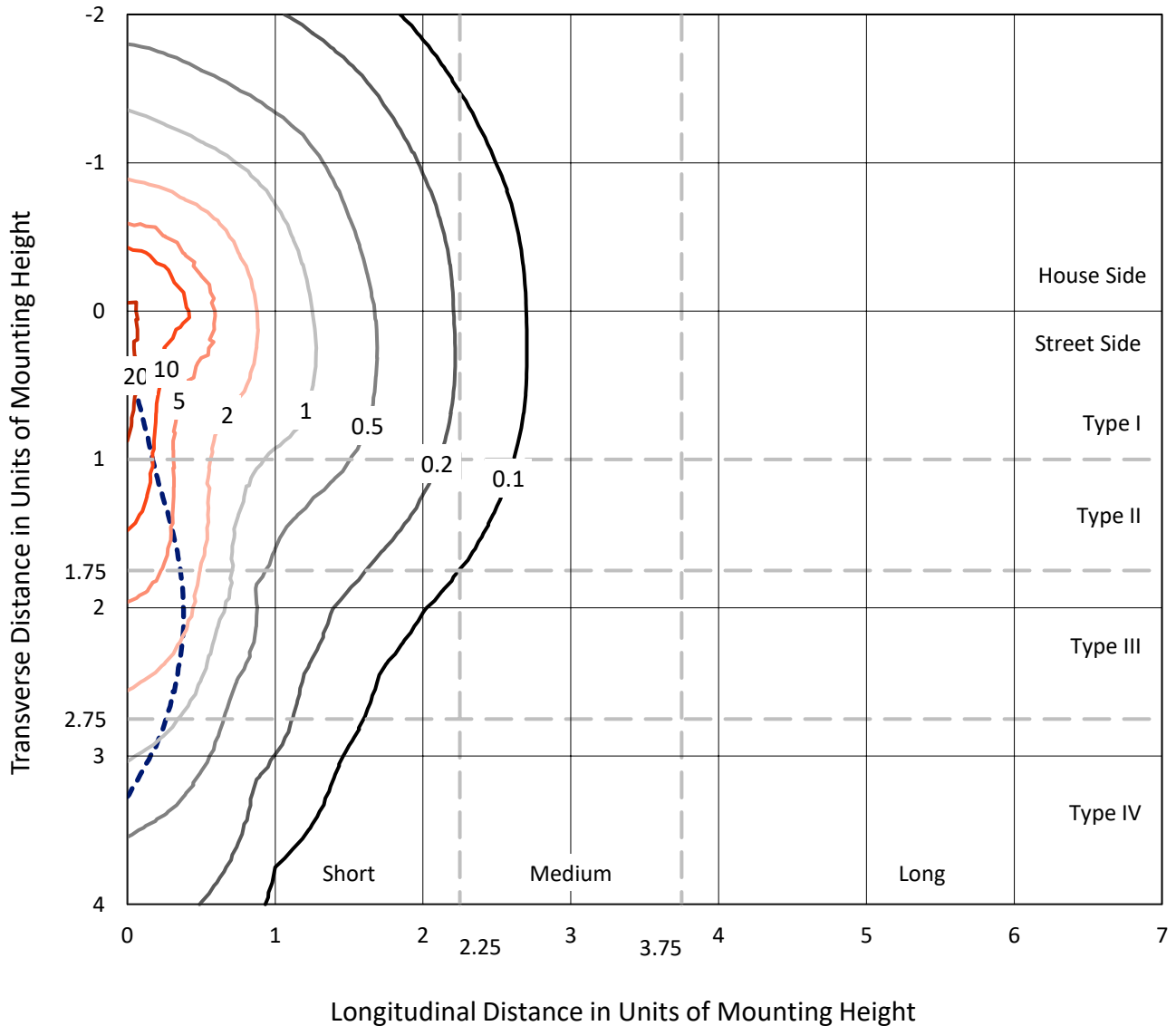
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

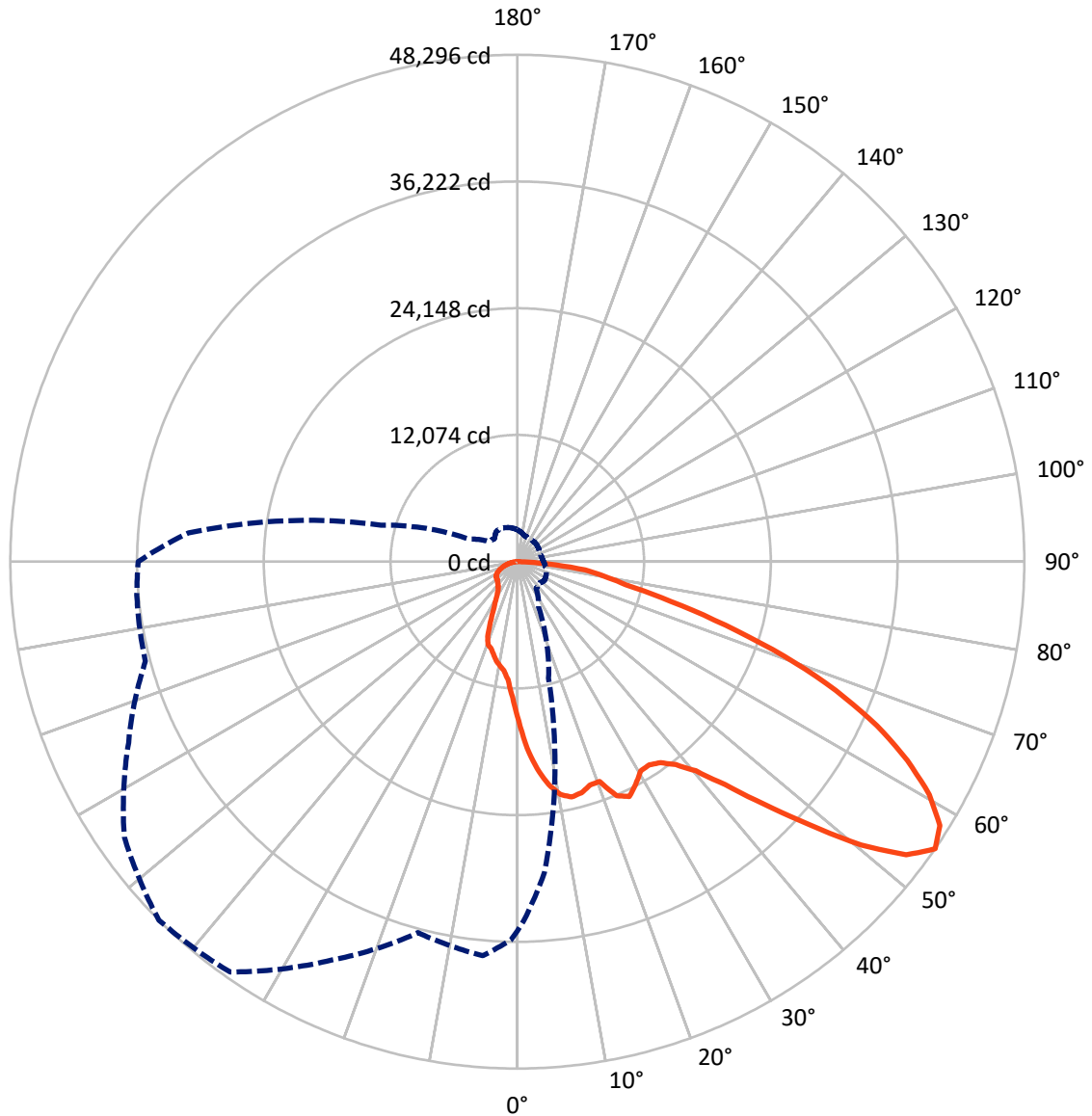
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GLAN-SA9D-740-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13223.4 | 0.0 | 13223.4 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 47227.6 | 0.0 | 47227.6 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 60451.0 | 0.0 | 60451.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1285.8 | 2.1 |
| 10°-20° | 3411.2 | 5.6 |
| 20°-30° | 5893.0 | 9.7 |
| 30°-40° | 6848.6 | 11.3 |
| 40°-50° | 9555.1 | 15.8 |
| 50°-60° | 12965.3 | 21.4 |
| 60°-70° | 12334.9 | 20.4 |
| 70°-80° | 6663.7 | 11.0 |
| 80°-90° | 1493.4 | 2.5 |
| 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° | 60451.0 | 100.0 |
| 0°-180° | 60451.0 | 100.0 |

Coefficient of Utilization



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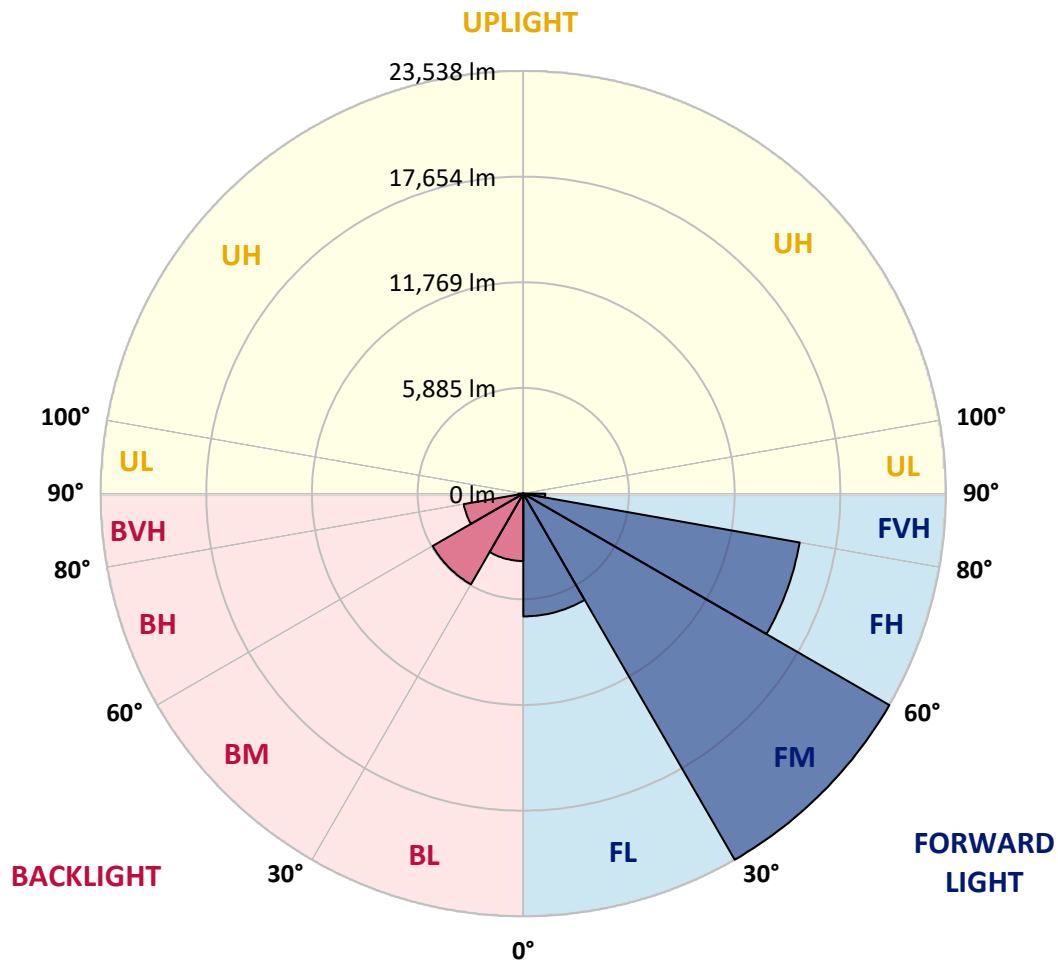
CATALOG NUMBER: GLAN-SA9D-740-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 6837.1 | 11.3 | | | |
| FM | (30°-60°) | 23538.4 | 38.9 | | | |
| FH | (60°-80°) | 15631.6 | 25.9 | | | G5 |
| FVH | (80°-90°) | 1220.5 | 2.0 | | | G5 |
| BL | (0°-30°) | 3752.8 | 6.2 | B4/5000 | | |
| BM | (30°-60°) | 5830.7 | 9.6 | B4/8500 | | |
| BH | (60°-80°) | 3367.0 | 5.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 272.9 | 0.5 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 |
| 2.5° | 16853.8 | 16790.0 | 16610.6 | 16140.0 | 15665.4 | 15182.8 | 14811.9 | 14349.3 | 13866.7 | 13607.5 | 13276.5 |
| 5° | 17085.1 | 17013.4 | 16590.6 | 15529.8 | 14568.6 | 13559.6 | 12754.0 | 12048.1 | 11761.0 | 11338.2 | 10999.3 |
| 7.5° | 16542.8 | 16510.9 | 15876.7 | 14353.3 | 13037.2 | 11717.1 | 10803.8 | 10237.5 | 9723.1 | 9531.6 | 9571.5 |
| 10° | 16048.2 | 15920.6 | 15127.0 | 13136.9 | 11601.5 | 10528.7 | 9874.6 | 9320.3 | 8957.3 | 8861.6 | 8881.6 |
| 12.5° | 15637.5 | 15466.0 | 14528.8 | 12319.3 | 10975.3 | 10117.9 | 9284.4 | 8706.1 | 8375.1 | 8466.8 | 8777.9 |
| 15° | 15553.7 | 15322.4 | 14277.5 | 12040.2 | 10632.3 | 9527.6 | 8614.4 | 7948.3 | 7701.1 | 7900.5 | 8399.0 |
| 17.5° | 16096.1 | 15805.0 | 14708.2 | 12131.9 | 10305.3 | 8925.4 | 7804.8 | 7043.0 | 6835.7 | 7154.7 | 7804.8 |
| 20° | 17838.9 | 17408.2 | 16052.2 | 12662.3 | 10273.4 | 8626.3 | 7334.2 | 6568.4 | 6656.2 | 7262.4 | 7940.4 |
| 22.5° | 21061.3 | 20415.2 | 18405.2 | 13436.0 | 10440.9 | 8550.5 | 7238.5 | 6839.6 | 7322.2 | 7836.7 | 8283.3 |
| 25° | 21699.4 | 21192.9 | 18828.0 | 13611.5 | 10405.0 | 8498.7 | 7509.6 | 7709.1 | 8247.4 | 8502.7 | 8347.2 |
| 27.5° | 22058.3 | 21480.1 | 18800.0 | 12742.1 | 9304.3 | 7709.1 | 7178.6 | 7509.6 | 7645.2 | 7398.0 | 6975.2 |
| 30° | 22895.8 | 22293.6 | 19274.6 | 11828.8 | 7661.2 | 5719.0 | 5013.1 | 4877.5 | 4969.2 | 5017.1 | 4865.5 |
| 32.5° | 24048.4 | 23454.2 | 20168.0 | 11230.6 | 6624.3 | 4729.9 | 4036.0 | 3844.6 | 3800.7 | 3748.8 | 3689.0 |
| 35° | 25540.0 | 24626.7 | 21045.4 | 10847.7 | 6197.6 | 4375.0 | 3736.9 | 3589.3 | 3529.5 | 3457.7 | 3393.9 |
| 37.5° | 27055.5 | 26098.3 | 22154.1 | 10444.9 | 5914.4 | 4127.7 | 3537.5 | 3469.7 | 3366.0 | 3290.2 | 3198.5 |
| 40° | 28666.7 | 27593.9 | 23163.0 | 10094.0 | 5639.2 | 3968.2 | 3393.9 | 3385.9 | 3250.3 | 3162.6 | 3054.9 |
| 42.5° | 30062.5 | 28957.8 | 24064.4 | 9878.6 | 5427.8 | 3800.7 | 3306.2 | 3330.1 | 3190.5 | 3058.9 | 2919.3 |
| 45° | 31171.2 | 30086.4 | 24897.9 | 9878.6 | 5256.4 | 3633.2 | 3290.2 | 3274.3 | 3134.7 | 2971.2 | 2811.6 |
| 47.5° | 32144.3 | 31023.6 | 25711.5 | 10129.8 | 5148.7 | 3493.6 | 3202.5 | 3230.4 | 3086.8 | 2879.4 | 2723.9 |
| 50° | 32898.1 | 31909.0 | 26808.2 | 10520.7 | 5041.0 | 3381.9 | 3090.8 | 3242.3 | 3046.9 | 2831.6 | 2652.1 |
| 52.5° | 33859.2 | 32973.8 | 28128.3 | 11055.1 | 4949.3 | 3258.3 | 2991.1 | 3242.3 | 3042.9 | 2835.6 | 2640.1 |
| 55° | 35191.2 | 34258.0 | 29719.5 | 11497.8 | 4801.7 | 3142.6 | 2903.4 | 3150.6 | 3031.0 | 2815.6 | 2608.2 |
| 57.5° | 36124.5 | 35426.5 | 30844.2 | 11792.9 | 4590.3 | 2995.1 | 2823.6 | 3062.9 | 2979.1 | 2739.8 | 2512.5 |
| 58° | 36168.3 | 35486.4 | 31007.7 | 11860.7 | 4538.5 | 2967.2 | 2803.7 | 3023.0 | 2955.2 | 2707.9 | 2480.6 |
| 60° | 35665.8 | 35079.6 | 31039.6 | 11765.0 | 4243.4 | 2827.6 | 2700.0 | 2859.5 | 2827.6 | 2520.5 | 2309.1 |
| 62.5° | 33839.3 | 33213.1 | 29751.4 | 10987.3 | 3852.5 | 2656.1 | 2540.4 | 2640.1 | 2568.4 | 2257.3 | 2061.9 |
| 65° | 31243.0 | 30090.4 | 27103.3 | 9766.9 | 3573.4 | 2472.6 | 2325.1 | 2333.1 | 2257.3 | 2033.9 | 1862.5 |
| 67.5° | 27785.3 | 26497.1 | 22947.7 | 8231.5 | 3362.0 | 2269.2 | 2069.8 | 2049.9 | 1958.2 | 1814.6 | 1675.0 |
| 70° | 23530.0 | 22648.6 | 18648.5 | 6696.1 | 3126.7 | 2045.9 | 1782.7 | 1770.7 | 1714.9 | 1607.2 | 1483.6 |
| 72.5° | 19071.2 | 17950.6 | 15059.2 | 5360.0 | 2839.5 | 1830.6 | 1515.5 | 1539.4 | 1467.6 | 1391.9 | 1280.2 |
| 75° | 14074.1 | 13340.3 | 11641.3 | 4299.2 | 2452.7 | 1595.3 | 1264.2 | 1272.2 | 1240.3 | 1160.5 | 1072.8 |
| 77.5° | 9268.4 | 9049.1 | 8327.2 | 2823.6 | 1886.4 | 1268.2 | 1032.9 | 1040.9 | 1017.0 | 945.2 | 853.5 |
| 80° | 6237.4 | 6089.9 | 5643.2 | 1818.6 | 1260.2 | 917.3 | 797.6 | 805.6 | 801.6 | 725.8 | 602.2 |
| 82.5° | 3844.6 | 3780.7 | 3637.2 | 1228.3 | 873.4 | 658.0 | 526.4 | 550.4 | 594.2 | 510.5 | 410.8 |
| 85° | 1814.6 | 1818.6 | 2197.5 | 670.0 | 514.5 | 422.7 | 287.1 | 307.1 | 307.1 | 307.1 | 231.3 |
| 87.5° | 235.3 | 247.3 | 303.1 | 283.2 | 187.4 | 159.5 | 103.7 | 87.7 | 75.8 | 99.7 | 71.8 |
| 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-SA9D-740-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 |
| 2.5° | 13160.8 | 13081.1 | 12909.6 | 12869.7 | 12845.8 | 12913.6 | 12734.1 | 12782.0 | 12702.2 | 12925.5 | 12889.6 |
| 5° | 11019.2 | 11027.2 | 11166.8 | 11258.5 | 11290.4 | 11258.5 | 11138.8 | 10931.5 | 10771.9 | 10708.1 | 10724.1 |
| 7.5° | 9495.7 | 9635.3 | 9874.6 | 10141.8 | 10385.1 | 10456.9 | 10389.1 | 9994.2 | 9563.5 | 9292.3 | 9204.6 |
| 10° | 8989.2 | 9176.7 | 9451.9 | 9663.2 | 9878.6 | 10050.1 | 10086.0 | 9778.9 | 9268.4 | 8626.3 | 8375.1 |
| 12.5° | 9017.2 | 9272.4 | 9535.6 | 9603.4 | 9583.5 | 9651.3 | 9619.4 | 9567.5 | 9232.5 | 8415.0 | 7996.2 |
| 15° | 8753.9 | 9057.0 | 9240.5 | 9204.6 | 9140.8 | 9081.0 | 8997.2 | 8865.6 | 8746.0 | 8171.7 | 7709.1 |
| 17.5° | 8147.7 | 8458.8 | 8610.4 | 8622.3 | 8622.3 | 8606.4 | 8403.0 | 8355.1 | 8339.2 | 8060.0 | 7776.8 |
| 20° | 8259.4 | 8430.9 | 8363.1 | 8251.4 | 8283.3 | 8391.0 | 8271.4 | 8247.4 | 8339.2 | 8462.8 | 8411.0 |
| 22.5° | 8323.2 | 8263.4 | 7752.9 | 7258.4 | 7146.7 | 7481.7 | 7549.5 | 7816.7 | 8187.6 | 8634.3 | 8925.4 |
| 25° | 7928.4 | 7445.8 | 6532.6 | 5974.2 | 5659.2 | 5970.2 | 6377.0 | 6871.5 | 7425.9 | 8000.2 | 8339.2 |
| 27.5° | 6628.3 | 6261.4 | 5607.3 | 5104.8 | 4829.6 | 4877.5 | 5224.4 | 5675.1 | 6189.6 | 6576.4 | 6823.7 |
| 30° | 4993.1 | 4829.6 | 4490.6 | 4319.1 | 4151.6 | 4111.8 | 4259.3 | 4430.8 | 4658.1 | 4706.0 | 4769.8 |
| 32.5° | 3677.1 | 3653.1 | 3673.1 | 3617.2 | 3585.3 | 3581.3 | 3537.5 | 3577.4 | 3601.3 | 3629.2 | 3573.4 |
| 35° | 3326.1 | 3294.2 | 3238.4 | 3222.4 | 3202.5 | 3210.4 | 3190.5 | 3170.6 | 3186.5 | 3210.4 | 3226.4 |
| 37.5° | 3146.6 | 3098.8 | 3019.0 | 2991.1 | 2991.1 | 3003.1 | 2971.2 | 2963.2 | 2991.1 | 3066.9 | 3106.8 |
| 40° | 3007.0 | 2951.2 | 2859.5 | 2823.6 | 2847.5 | 2879.4 | 2835.6 | 2819.6 | 2887.4 | 2967.2 | 3031.0 |
| 42.5° | 2875.4 | 2831.6 | 2743.8 | 2704.0 | 2723.9 | 2783.7 | 2719.9 | 2707.9 | 2795.7 | 2883.4 | 2959.2 |
| 45° | 2763.8 | 2719.9 | 2640.1 | 2620.2 | 2628.2 | 2684.0 | 2640.1 | 2640.1 | 2723.9 | 2819.6 | 2887.4 |
| 47.5° | 2676.0 | 2620.2 | 2568.4 | 2552.4 | 2560.4 | 2592.3 | 2584.3 | 2584.3 | 2664.1 | 2763.8 | 2831.6 |
| 50° | 2588.3 | 2540.4 | 2472.6 | 2480.6 | 2500.6 | 2544.4 | 2540.4 | 2552.4 | 2632.2 | 2755.8 | 2827.6 |
| 52.5° | 2548.4 | 2476.6 | 2400.9 | 2408.8 | 2468.7 | 2520.5 | 2504.5 | 2516.5 | 2608.2 | 2839.5 | 2943.2 |
| 55° | 2504.5 | 2408.8 | 2321.1 | 2333.1 | 2400.9 | 2476.6 | 2456.7 | 2472.6 | 2580.3 | 2895.4 | 3039.0 |
| 57.5° | 2420.8 | 2309.1 | 2213.4 | 2221.4 | 2321.1 | 2400.9 | 2368.9 | 2388.9 | 2516.5 | 2835.6 | 2987.1 |
| 58° | 2384.9 | 2289.2 | 2197.5 | 2201.4 | 2297.2 | 2384.9 | 2349.0 | 2365.0 | 2496.6 | 2819.6 | 2963.2 |
| 60° | 2233.4 | 2177.5 | 2097.8 | 2101.7 | 2193.5 | 2269.2 | 2249.3 | 2265.3 | 2392.9 | 2704.0 | 2811.6 |
| 62.5° | 2026.0 | 1994.1 | 1974.1 | 1974.1 | 2030.0 | 2101.7 | 2121.7 | 2141.6 | 2257.3 | 2444.7 | 2540.4 |
| 65° | 1802.6 | 1802.6 | 1806.6 | 1806.6 | 1842.5 | 1934.2 | 1946.2 | 1998.1 | 2105.7 | 2197.5 | 2269.2 |
| 67.5° | 1651.1 | 1643.1 | 1651.1 | 1631.1 | 1647.1 | 1702.9 | 1762.8 | 1810.6 | 1922.3 | 1986.1 | 2010.0 |
| 70° | 1455.7 | 1451.7 | 1455.7 | 1427.7 | 1447.7 | 1495.5 | 1535.4 | 1615.2 | 1730.8 | 1778.7 | 1790.7 |
| 72.5° | 1264.2 | 1264.2 | 1272.2 | 1252.3 | 1252.3 | 1304.1 | 1332.0 | 1419.8 | 1527.5 | 1555.4 | 1559.4 |
| 75° | 1064.8 | 1076.8 | 1076.8 | 1048.9 | 1056.9 | 1088.8 | 1124.7 | 1196.4 | 1296.1 | 1316.1 | 1316.1 |
| 77.5° | 845.5 | 889.4 | 889.4 | 861.4 | 873.4 | 877.4 | 925.2 | 961.1 | 1036.9 | 1044.9 | 1013.0 |
| 80° | 614.2 | 658.0 | 693.9 | 670.0 | 689.9 | 666.0 | 693.9 | 717.9 | 793.6 | 757.7 | 705.9 |
| 82.5° | 438.7 | 470.6 | 498.5 | 502.5 | 482.6 | 438.7 | 474.6 | 478.6 | 514.5 | 466.6 | 438.7 |
| 85° | 243.3 | 271.2 | 307.1 | 291.1 | 259.2 | 231.3 | 243.3 | 251.3 | 247.3 | 235.3 | 219.3 |
| 87.5° | 63.8 | 67.8 | 75.8 | 55.8 | 51.8 | 43.9 | 59.8 | 59.8 | 67.8 | 71.8 | 67.8 |
| 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-SA9D-740-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 |
| 2.5° | 12917.5 | 13093.0 | 13471.9 | 13759.0 | 14110.0 | 14536.7 | 15039.2 | 15545.7 | 16092.1 | 16263.6 | 16502.9 |
| 5° | 10688.2 | 11126.9 | 11310.3 | 11832.8 | 12351.2 | 13128.9 | 13958.4 | 14919.6 | 15972.5 | 16478.9 | 16965.5 |
| 7.5° | 9132.8 | 9368.1 | 9559.5 | 9942.4 | 10564.6 | 11509.7 | 12550.6 | 13751.1 | 15242.6 | 15980.4 | 16694.3 |
| 10° | 8295.3 | 8319.2 | 8554.5 | 9029.1 | 9571.5 | 10405.0 | 11390.1 | 12734.1 | 14397.1 | 15294.5 | 16132.0 |
| 12.5° | 7741.0 | 7637.3 | 7892.5 | 8387.0 | 9001.2 | 9770.9 | 10676.2 | 11956.4 | 13787.0 | 14708.2 | 15721.2 |
| 15° | 7254.4 | 7090.9 | 7282.3 | 7788.8 | 8395.0 | 9300.3 | 10273.4 | 11629.4 | 13547.7 | 14620.5 | 15745.1 |
| 17.5° | 7266.4 | 6815.7 | 6883.5 | 7310.2 | 7912.4 | 8833.7 | 10014.2 | 11617.4 | 13910.6 | 15146.9 | 16478.9 |
| 20° | 8163.7 | 7441.8 | 7134.8 | 7214.5 | 7796.8 | 8801.8 | 10133.8 | 12175.8 | 15103.0 | 16905.7 | 18329.4 |
| 22.5° | 9045.1 | 8610.4 | 8115.8 | 7952.3 | 8271.4 | 9324.2 | 10895.6 | 13495.8 | 17695.3 | 20411.2 | 22983.6 |
| 25° | 8738.0 | 9108.9 | 8985.3 | 8753.9 | 8825.7 | 9699.1 | 11414.0 | 14580.6 | 19709.3 | 22768.2 | 25185.0 |
| 27.5° | 6991.2 | 7665.2 | 7800.8 | 7796.8 | 7824.7 | 8542.6 | 10265.4 | 13850.8 | 19960.6 | 23218.9 | 25528.0 |
| 30° | 4913.4 | 4973.2 | 5045.0 | 5184.6 | 5312.2 | 5954.3 | 8032.1 | 12159.8 | 19848.9 | 23422.3 | 25735.4 |
| 32.5° | 3545.4 | 3625.2 | 3724.9 | 3916.3 | 4219.4 | 5037.0 | 7027.1 | 11621.4 | 20439.2 | 24263.8 | 26341.6 |
| 35° | 3242.3 | 3334.1 | 3429.8 | 3649.1 | 3936.3 | 4694.0 | 6628.3 | 11398.1 | 21408.3 | 25627.7 | 27430.3 |
| 37.5° | 3146.6 | 3250.3 | 3334.1 | 3493.6 | 3724.9 | 4446.8 | 6265.3 | 11246.5 | 22401.3 | 27071.4 | 28890.0 |
| 40° | 3078.8 | 3198.5 | 3266.3 | 3393.9 | 3553.4 | 4219.4 | 5942.3 | 11126.9 | 23362.5 | 28391.5 | 30062.5 |
| 42.5° | 3019.0 | 3142.6 | 3230.4 | 3322.1 | 3453.7 | 4016.0 | 5655.2 | 11007.2 | 24196.0 | 29671.7 | 31231.0 |
| 45° | 2947.2 | 3102.8 | 3214.4 | 3286.2 | 3401.9 | 3844.6 | 5435.8 | 10911.5 | 25145.1 | 30808.3 | 32411.5 |
| 47.5° | 2887.4 | 3058.9 | 3198.5 | 3282.2 | 3326.1 | 3724.9 | 5260.3 | 11043.1 | 26285.8 | 31996.8 | 33508.3 |
| 50° | 2891.4 | 3054.9 | 3230.4 | 3362.0 | 3246.3 | 3625.2 | 5152.7 | 11565.6 | 27769.3 | 33408.5 | 34373.7 |
| 52.5° | 3019.0 | 3218.4 | 3358.0 | 3389.9 | 3134.7 | 3505.6 | 5096.8 | 12478.9 | 29524.1 | 34656.8 | 35247.1 |
| 55° | 3162.6 | 3370.0 | 3521.5 | 3501.6 | 3074.8 | 3354.0 | 5084.9 | 13452.0 | 31446.4 | 36112.5 | 36383.7 |
| 57.5° | 3110.7 | 3413.8 | 3645.1 | 3541.5 | 3078.8 | 3206.5 | 5033.0 | 14237.6 | 33053.6 | 37201.3 | 37508.3 |
| 58° | 3094.8 | 3397.9 | 3661.1 | 3533.5 | 3066.9 | 3162.6 | 5021.1 | 14305.4 | 33276.9 | 37277.0 | 37667.9 |
| 60° | 2939.3 | 3258.3 | 3649.1 | 3473.7 | 2999.1 | 3042.9 | 4889.4 | 14524.8 | 33217.1 | 36886.2 | 37763.6 |
| 62.5° | 2656.1 | 2919.3 | 3374.0 | 3182.5 | 2791.7 | 2883.4 | 4594.3 | 14253.6 | 31597.9 | 35003.8 | 36363.8 |
| 65° | 2337.0 | 2532.5 | 2835.6 | 2799.7 | 2496.6 | 2719.9 | 4191.5 | 13180.8 | 28355.6 | 31948.9 | 33380.6 |
| 67.5° | 2097.8 | 2257.3 | 2448.7 | 2396.9 | 2245.3 | 2500.6 | 3756.8 | 11366.2 | 24718.4 | 28279.8 | 30082.5 |
| 70° | 1854.5 | 1978.1 | 2073.8 | 2037.9 | 1990.1 | 2285.2 | 3370.0 | 9224.5 | 21232.8 | 24794.2 | 26541.0 |
| 72.5° | 1607.2 | 1722.9 | 1802.6 | 1750.8 | 1722.9 | 2057.9 | 3054.9 | 7158.7 | 16770.1 | 20455.1 | 22700.4 |
| 75° | 1344.0 | 1459.7 | 1515.5 | 1455.7 | 1439.7 | 1814.6 | 2588.3 | 5348.1 | 12582.5 | 15769.1 | 17707.3 |
| 77.5° | 1040.9 | 1164.5 | 1236.3 | 1216.4 | 1224.4 | 1491.6 | 2089.8 | 3661.1 | 8997.2 | 10748.0 | 12789.9 |
| 80° | 729.8 | 865.4 | 913.3 | 893.3 | 949.2 | 1136.6 | 1475.6 | 2325.1 | 6205.5 | 6975.2 | 8415.0 |
| 82.5° | 450.7 | 578.3 | 586.3 | 606.2 | 646.1 | 841.5 | 1112.7 | 1415.8 | 3896.4 | 4028.0 | 5072.9 |
| 85° | 227.3 | 275.2 | 295.1 | 327.0 | 362.9 | 514.5 | 634.1 | 877.4 | 2508.5 | 1898.3 | 2835.6 |
| 87.5° | 75.8 | 79.8 | 95.7 | 119.6 | 147.6 | 211.4 | 271.2 | 358.9 | 622.1 | 343.0 | 877.4 |
| 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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| 0° | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 | 15170.8 |
| 2.5° | 16985.4 | 17324.4 | 17571.7 | 17799.0 | 17579.7 | 17559.7 | 17344.4 | 16997.4 | 16853.8 | 16853.8 |
| 5° | 17986.5 | 18780.1 | 19422.2 | 19833.0 | 19657.5 | 19234.7 | 18536.8 | 17647.5 | 17168.9 | 17085.1 |
| 7.5° | 18261.6 | 19829.0 | 21021.4 | 21444.2 | 21149.0 | 20215.8 | 18879.8 | 17380.3 | 16694.3 | 16542.8 |
| 10° | 18094.1 | 20132.1 | 21882.9 | 22552.9 | 22142.1 | 20730.3 | 18907.7 | 17069.2 | 16223.7 | 16048.2 |
| 12.5° | 17918.7 | 20172.0 | 22042.4 | 23011.5 | 22744.3 | 21145.1 | 19111.1 | 16865.8 | 15888.7 | 15637.5 |
| 15° | 18046.3 | 20187.9 | 21847.0 | 22848.0 | 23019.5 | 21643.6 | 19446.1 | 17013.4 | 15820.9 | 15553.7 |
| 17.5° | 18851.9 | 20491.0 | 21567.8 | 22377.4 | 22979.6 | 22321.6 | 20399.3 | 17719.3 | 16427.1 | 16096.1 |
| 20° | 20534.9 | 21216.8 | 21727.3 | 22353.5 | 23322.6 | 23705.4 | 22349.5 | 19657.5 | 18130.0 | 17838.9 |
| 22.5° | 25408.4 | 25284.7 | 24239.8 | 24227.9 | 25631.7 | 27167.1 | 27075.4 | 23597.8 | 21300.6 | 21061.3 |
| 25° | 27234.9 | 26660.6 | 25149.1 | 24782.2 | 25400.4 | 27769.3 | 27426.4 | 24403.4 | 22281.7 | 21699.4 |
| 27.5° | 26521.1 | 25097.3 | 24104.2 | 24020.5 | 23817.1 | 26054.4 | 26880.0 | 24730.4 | 22624.7 | 22058.3 |
| 30° | 26477.2 | 24383.4 | 22963.6 | 23131.1 | 23326.6 | 25464.2 | 27183.1 | 25755.3 | 23502.0 | 22895.8 |
| 32.5° | 26584.9 | 24483.1 | 23047.4 | 23079.3 | 23661.6 | 25551.9 | 27518.1 | 26872.0 | 24654.6 | 24048.4 |
| 35° | 27019.6 | 25049.4 | 23581.8 | 23506.0 | 24415.3 | 26126.2 | 28088.4 | 28626.8 | 26229.9 | 25540.0 |
| 37.5° | 27721.5 | 26178.1 | 24558.9 | 24539.0 | 25859.0 | 27163.1 | 28798.3 | 30397.5 | 27797.3 | 27055.5 |
| 40° | 28754.4 | 27498.1 | 26297.7 | 26190.0 | 27821.2 | 28850.1 | 29719.5 | 32283.9 | 29619.8 | 28666.7 |
| 42.5° | 30002.7 | 29081.4 | 28590.9 | 29017.6 | 30585.0 | 30744.5 | 31155.3 | 34026.7 | 31171.2 | 30062.5 |
| 45° | 31159.2 | 31115.4 | 31797.3 | 32930.0 | 33843.3 | 32886.1 | 32654.8 | 35195.2 | 32375.6 | 31171.2 |
| 47.5° | 32535.1 | 33723.6 | 35781.5 | 37440.5 | 38397.7 | 35378.7 | 33935.0 | 35957.0 | 33253.0 | 32144.3 |
| 50° | 33931.0 | 36846.3 | 40132.5 | 42445.6 | 42649.0 | 38086.6 | 34816.4 | 36674.8 | 34050.6 | 32898.1 |
| 52.5° | 35398.6 | 39338.9 | 43713.9 | 46401.9 | 46007.0 | 40443.6 | 35669.8 | 37161.4 | 34872.2 | 33859.2 |
| 55° | 36674.8 | 40866.3 | 45715.9 | 48296.2 | 47718.0 | 41879.3 | 36591.1 | 37687.8 | 36044.7 | 35191.2 |
| 57.5° | 37388.7 | 40994.0 | 45217.4 | 47470.7 | 46844.6 | 41600.2 | 37013.8 | 38078.6 | 36794.5 | 36124.5 |
| 58° | 37492.4 | 40822.5 | 44774.7 | 46992.1 | 46354.0 | 41364.9 | 37009.8 | 38062.7 | 36842.3 | 36168.3 |
| 60° | 37400.7 | 39709.8 | 43127.6 | 45101.7 | 44431.7 | 39889.3 | 36858.3 | 37763.6 | 36236.1 | 35665.8 |
| 62.5° | 36551.2 | 37779.5 | 40284.1 | 41719.8 | 41528.4 | 37584.1 | 36236.1 | 36634.9 | 34389.6 | 33839.3 |
| 65° | 35434.5 | 35147.4 | 36642.9 | 37659.9 | 37803.5 | 35857.3 | 35618.0 | 34194.2 | 32020.7 | 31243.0 |
| 67.5° | 34078.6 | 32164.3 | 32160.3 | 32738.5 | 32977.8 | 33201.2 | 34329.8 | 31542.1 | 28606.8 | 27785.3 |
| 70° | 31777.4 | 27565.9 | 26297.7 | 26979.7 | 26780.3 | 28666.7 | 32028.7 | 27817.2 | 24491.1 | 23530.0 |
| 72.5° | 27558.0 | 21874.9 | 19844.9 | 20722.3 | 20219.8 | 22481.1 | 28024.6 | 22891.9 | 20251.7 | 19071.2 |
| 75° | 22337.5 | 16363.3 | 14269.5 | 15075.1 | 14764.1 | 17053.2 | 23318.6 | 16626.5 | 14524.8 | 14074.1 |
| 77.5° | 17344.4 | 11856.7 | 10640.3 | 10528.7 | 10760.0 | 12690.2 | 17105.1 | 11226.6 | 9575.5 | 9268.4 |
| 80° | 11142.8 | 8486.7 | 8558.5 | 8415.0 | 8534.6 | 8000.2 | 10385.1 | 7162.7 | 6484.7 | 6237.4 |
| 82.5° | 7334.2 | 5914.4 | 7051.0 | 6508.6 | 6181.6 | 5380.0 | 6811.7 | 4690.0 | 3980.2 | 3844.6 |
| 85° | 4997.1 | 4355.0 | 3964.2 | 3031.0 | 3569.4 | 4143.7 | 5108.8 | 2524.5 | 2002.0 | 1814.6 |
| 87.5° | 2257.3 | 1515.5 | 1112.7 | 686.0 | 1084.8 | 1252.3 | 2480.6 | 295.1 | 227.3 | 235.3 |
| 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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