

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: P456585

Luminaire Tested: **GLAN-SA7D-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456585
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-SA7D-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 46445 lumens
Efficiency: N/A
Efficacy: 107.3 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

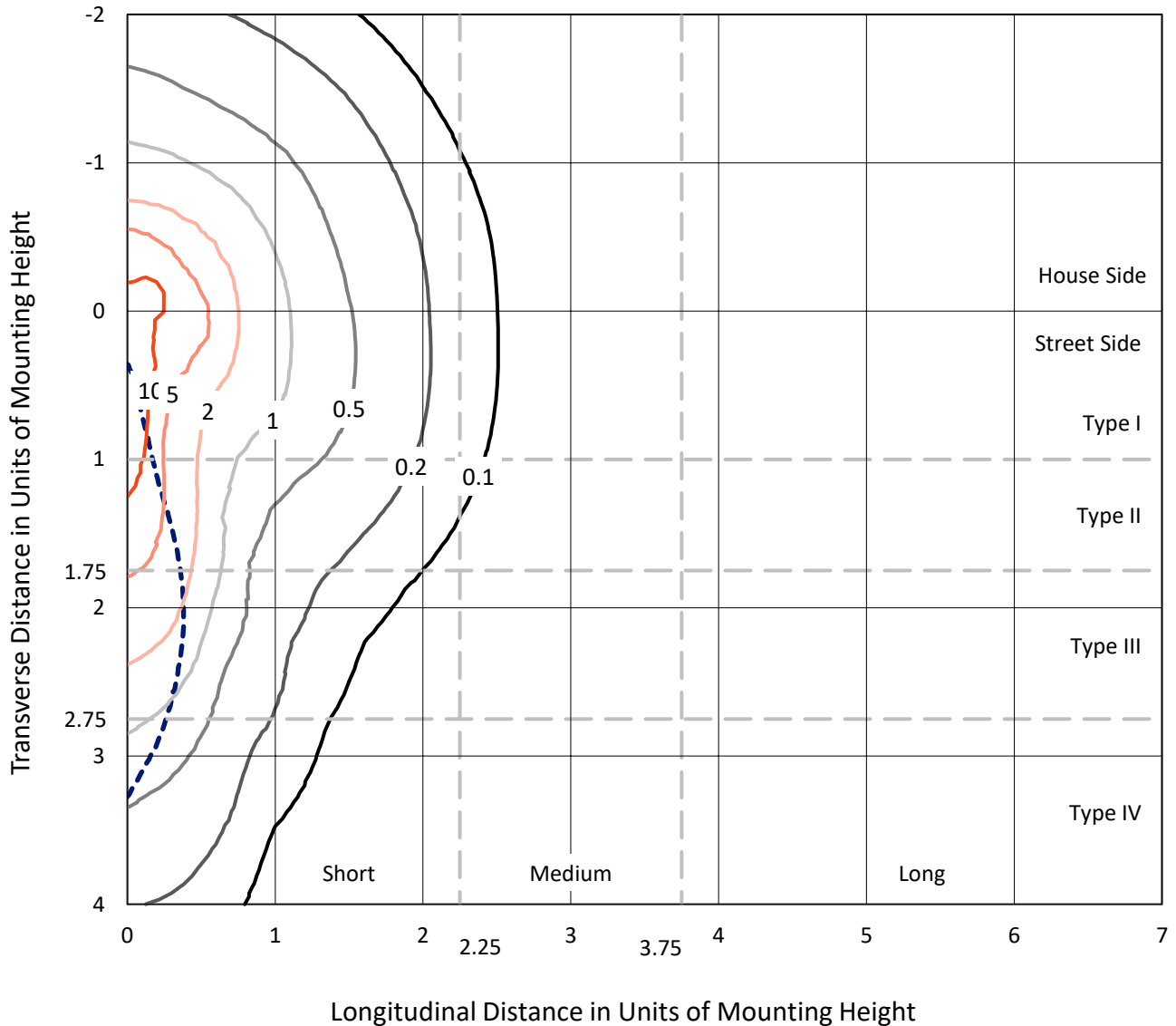
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456585
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Iso-Footcandle Lines of Horizontal Illumination

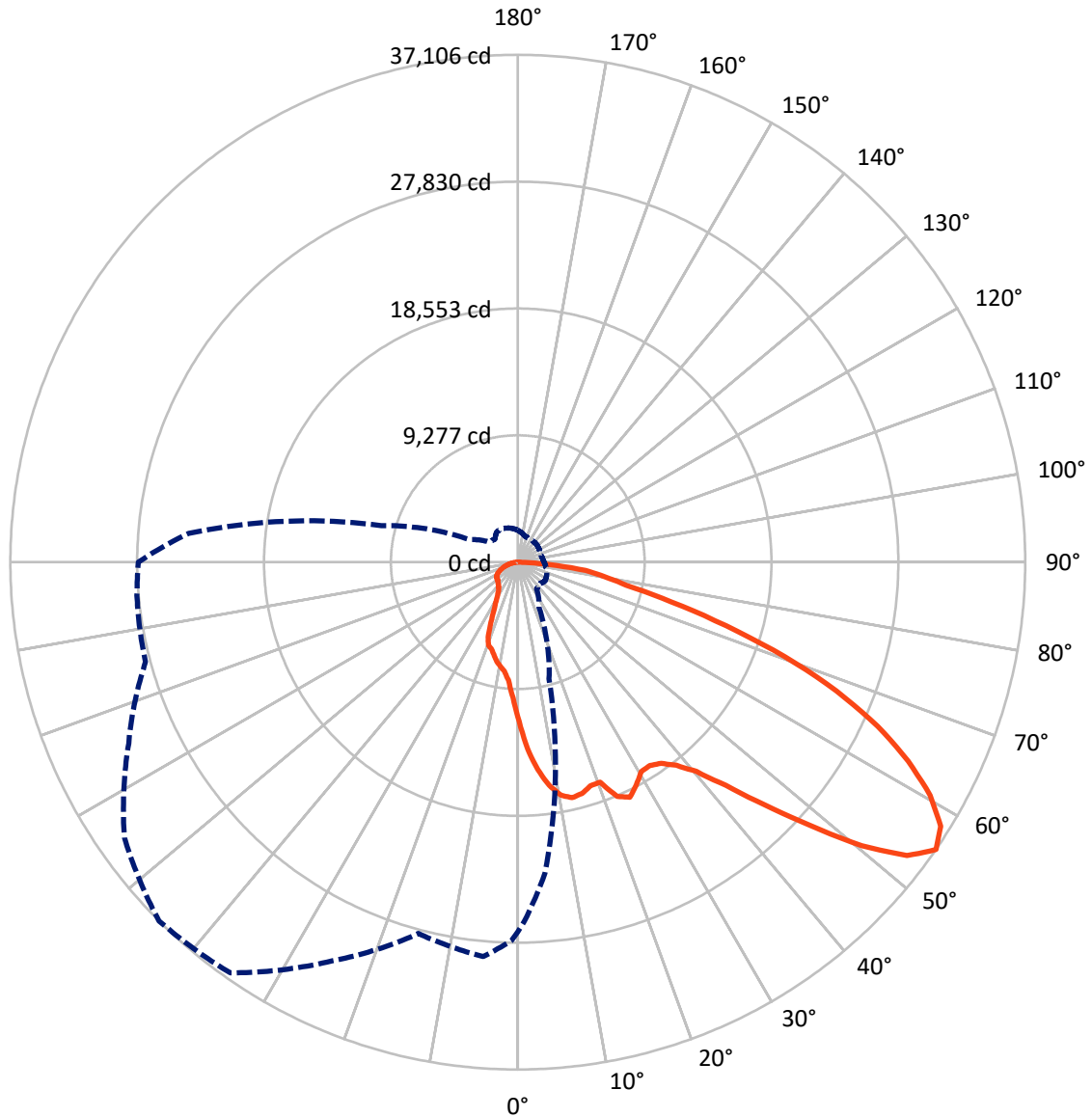
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type IV - Short - N/A

REPORT NUMBER: P456585
CATALOG NUMBER: GLAN-SA7D-760-U-SLR

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLAN-SA7D-760-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10159.6 | 0.0 | 10159.6 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 36285.4 | 0.0 | 36285.4 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 46445.0 | 0.0 | 46445.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 987.9 | 2.1 |
| 10°-20° | 2620.8 | 5.6 |
| 20°-30° | 4527.6 | 9.7 |
| 30°-40° | 5261.8 | 11.3 |
| 40°-50° | 7341.3 | 15.8 |
| 50°-60° | 9961.3 | 21.4 |
| 60°-70° | 9477.0 | 20.4 |
| 70°-80° | 5119.7 | 11.0 |
| 80°-90° | 1147.4 | 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° | 46445.0 | 100.0 |
| 0°-180° | 46445.0 | 100.0 |

Coefficient of Utilization



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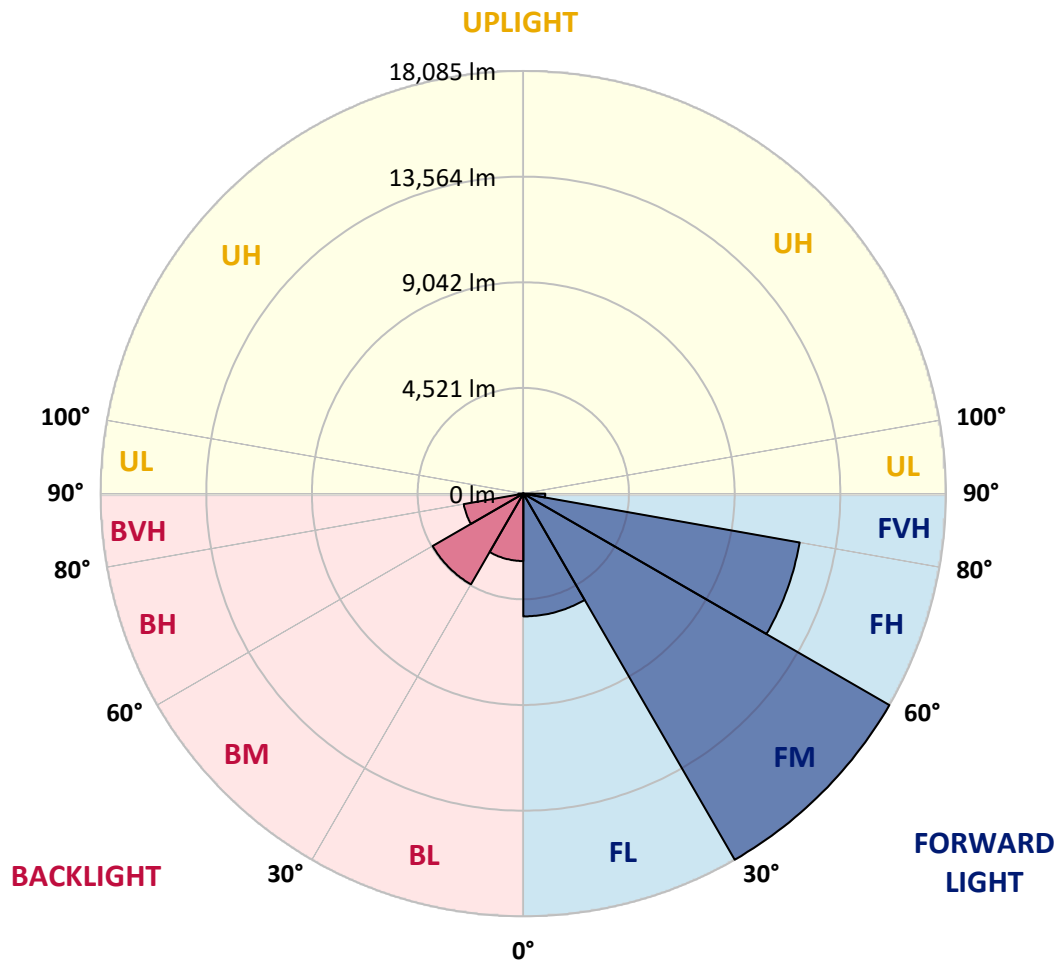
CATALOG NUMBER: GLAN-SA7D-760-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5253.0 | 11.3 | | | |
| FM | (30°-60°) | 18084.7 | 38.9 | | | |
| FH | (60°-80°) | 12009.9 | 25.9 | | | G5 |
| FVH | (80°-90°) | 937.7 | 2.0 | | | G5 |
| BL | (0°-30°) | 2883.3 | 6.2 | B4/5000 | | |
| BM | (30°-60°) | 4479.7 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 2586.9 | 5.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 209.7 | 0.5 | | | G2/225 |
| 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





REPORT NUMBER: P456585

CATALOG NUMBER: GLAN-SA7D-760-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 |
| 2.5° | 12948.9 | 12899.9 | 12762.0 | 12400.5 | 12035.8 | 11665.1 | 11380.1 | 11024.7 | 10653.9 | 10454.7 | 10200.4 |
| 5° | 13126.7 | 13071.5 | 12746.7 | 11931.7 | 11193.2 | 10418.0 | 9799.0 | 9256.7 | 9036.1 | 8711.3 | 8450.8 |
| 7.5° | 12709.9 | 12685.4 | 12198.2 | 11027.7 | 10016.6 | 9002.4 | 8300.7 | 7865.6 | 7470.3 | 7323.2 | 7353.9 |
| 10° | 12330.0 | 12231.9 | 11622.2 | 10093.2 | 8913.5 | 8089.3 | 7586.7 | 7160.8 | 6882.0 | 6808.5 | 6823.8 |
| 12.5° | 12014.4 | 11882.6 | 11162.6 | 9465.0 | 8432.4 | 7773.7 | 7133.3 | 6689.0 | 6434.6 | 6505.1 | 6744.1 |
| 15° | 11950.0 | 11772.3 | 10969.5 | 9250.6 | 8168.9 | 7320.2 | 6618.5 | 6106.8 | 5916.8 | 6070.0 | 6453.0 |
| 17.5° | 12366.8 | 12143.1 | 11300.4 | 9321.0 | 7917.7 | 6857.5 | 5996.5 | 5411.2 | 5251.9 | 5497.0 | 5996.5 |
| 20° | 13705.8 | 13374.8 | 12333.0 | 9728.6 | 7893.2 | 6627.7 | 5634.9 | 5046.6 | 5114.0 | 5579.7 | 6100.6 |
| 22.5° | 16181.6 | 15685.2 | 14140.9 | 10323.0 | 8021.8 | 6569.5 | 5561.4 | 5255.0 | 5625.7 | 6021.0 | 6364.2 |
| 25° | 16671.8 | 16282.7 | 14465.7 | 10457.8 | 7994.3 | 6529.6 | 5769.7 | 5922.9 | 6336.6 | 6532.7 | 6413.2 |
| 27.5° | 16947.6 | 16503.3 | 14444.2 | 9789.8 | 7148.6 | 5922.9 | 5515.4 | 5769.7 | 5873.9 | 5683.9 | 5359.1 |
| 30° | 17591.1 | 17128.4 | 14808.9 | 9088.2 | 5886.2 | 4393.9 | 3851.6 | 3747.4 | 3817.9 | 3854.7 | 3738.2 |
| 32.5° | 18476.6 | 18020.0 | 15495.2 | 8628.5 | 5089.5 | 3634.0 | 3100.9 | 2953.8 | 2920.1 | 2880.3 | 2834.3 |
| 35° | 19622.6 | 18920.9 | 16169.3 | 8334.4 | 4761.6 | 3361.3 | 2871.1 | 2757.7 | 2711.7 | 2656.6 | 2607.6 |
| 37.5° | 20786.9 | 20051.5 | 17021.1 | 8024.9 | 4544.1 | 3171.4 | 2717.9 | 2665.8 | 2586.1 | 2527.9 | 2457.4 |
| 40° | 22024.8 | 21200.6 | 17796.4 | 7755.3 | 4332.7 | 3048.8 | 2607.6 | 2601.4 | 2497.3 | 2429.8 | 2347.1 |
| 42.5° | 23097.3 | 22248.5 | 18488.8 | 7589.8 | 4170.3 | 2920.1 | 2540.1 | 2558.5 | 2451.3 | 2350.2 | 2242.9 |
| 45° | 23949.1 | 23115.7 | 19129.2 | 7589.8 | 4038.5 | 2791.4 | 2527.9 | 2515.6 | 2408.4 | 2282.8 | 2160.2 |
| 47.5° | 24696.7 | 23835.7 | 19754.3 | 7782.8 | 3955.8 | 2684.2 | 2460.5 | 2481.9 | 2371.6 | 2212.3 | 2092.8 |
| 50° | 25275.9 | 24516.0 | 20597.0 | 8083.1 | 3873.0 | 2598.4 | 2374.7 | 2491.1 | 2341.0 | 2175.5 | 2037.6 |
| 52.5° | 26014.3 | 25334.1 | 21611.2 | 8493.7 | 3802.6 | 2503.4 | 2298.1 | 2491.1 | 2337.9 | 2178.6 | 2028.4 |
| 55° | 27037.7 | 26320.7 | 22833.8 | 8833.8 | 3689.2 | 2414.5 | 2230.7 | 2420.6 | 2328.7 | 2163.3 | 2003.9 |
| 57.5° | 27754.7 | 27218.5 | 23697.8 | 9060.6 | 3526.8 | 2301.1 | 2169.4 | 2353.2 | 2288.9 | 2105.0 | 1930.4 |
| 58° | 27788.4 | 27264.5 | 23823.5 | 9112.7 | 3487.0 | 2279.7 | 2154.1 | 2322.6 | 2270.5 | 2080.5 | 1905.9 |
| 60° | 27402.4 | 26951.9 | 23848.0 | 9039.1 | 3260.2 | 2172.5 | 2074.4 | 2197.0 | 2172.5 | 1936.5 | 1774.1 |
| 62.5° | 25999.0 | 25517.9 | 22858.3 | 8441.6 | 2959.9 | 2040.7 | 1951.8 | 2028.4 | 1973.3 | 1734.3 | 1584.1 |
| 65° | 24004.3 | 23118.7 | 20823.7 | 7504.0 | 2745.4 | 1899.7 | 1786.4 | 1792.5 | 1734.3 | 1562.7 | 1430.9 |
| 67.5° | 21347.7 | 20358.0 | 17630.9 | 6324.3 | 2583.0 | 1743.5 | 1590.3 | 1575.0 | 1504.5 | 1394.2 | 1286.9 |
| 70° | 18078.3 | 17401.1 | 14327.8 | 5144.6 | 2402.3 | 1571.9 | 1369.7 | 1360.5 | 1317.6 | 1234.8 | 1139.8 |
| 72.5° | 14652.6 | 13791.6 | 11570.1 | 4118.2 | 2181.6 | 1406.4 | 1164.4 | 1182.7 | 1127.6 | 1069.4 | 983.6 |
| 75° | 10813.3 | 10249.5 | 8944.1 | 3303.1 | 1884.4 | 1225.6 | 971.3 | 977.5 | 952.9 | 891.7 | 824.2 |
| 77.5° | 7121.0 | 6952.5 | 6397.9 | 2169.4 | 1449.3 | 974.4 | 793.6 | 799.7 | 781.3 | 726.2 | 655.7 |
| 80° | 4792.3 | 4678.9 | 4335.7 | 1397.2 | 968.3 | 704.7 | 612.8 | 619.0 | 615.9 | 557.7 | 462.7 |
| 82.5° | 2953.8 | 2904.8 | 2794.5 | 943.7 | 671.0 | 505.6 | 404.5 | 422.8 | 456.6 | 392.2 | 315.6 |
| 85° | 1394.2 | 1397.2 | 1688.3 | 514.8 | 395.3 | 324.8 | 220.6 | 235.9 | 235.9 | 235.9 | 177.7 |
| 87.5° | 180.8 | 190.0 | 232.9 | 217.6 | 144.0 | 122.6 | 79.7 | 67.4 | 58.2 | 76.6 | 55.2 |
| 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-SA7D-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 |
| 2.5° | 10111.6 | 10050.3 | 9918.5 | 9887.9 | 9869.5 | 9921.6 | 9783.7 | 9820.5 | 9759.2 | 9930.8 | 9903.2 |
| 5° | 8466.1 | 8472.3 | 8579.5 | 8650.0 | 8674.5 | 8650.0 | 8558.1 | 8398.7 | 8276.2 | 8227.1 | 8239.4 |
| 7.5° | 7295.6 | 7402.9 | 7586.7 | 7792.0 | 7978.9 | 8034.1 | 7982.0 | 7678.7 | 7347.7 | 7139.4 | 7072.0 |
| 10° | 6906.5 | 7050.5 | 7261.9 | 7424.3 | 7589.8 | 7721.6 | 7749.1 | 7513.2 | 7121.0 | 6627.7 | 6434.6 |
| 12.5° | 6928.0 | 7124.1 | 7326.3 | 7378.4 | 7363.1 | 7415.2 | 7390.6 | 7350.8 | 7093.4 | 6465.3 | 6143.5 |
| 15° | 6725.7 | 6958.6 | 7099.5 | 7072.0 | 7022.9 | 6977.0 | 6912.6 | 6811.5 | 6719.6 | 6278.4 | 5922.9 |
| 17.5° | 6260.0 | 6499.0 | 6615.4 | 6624.6 | 6624.6 | 6612.4 | 6456.1 | 6419.3 | 6407.1 | 6192.6 | 5975.0 |
| 20° | 6345.8 | 6477.5 | 6425.4 | 6339.6 | 6364.2 | 6446.9 | 6355.0 | 6336.6 | 6407.1 | 6502.0 | 6462.2 |
| 22.5° | 6394.8 | 6348.8 | 5956.6 | 5576.7 | 5490.9 | 5748.3 | 5800.4 | 6005.7 | 6290.6 | 6633.8 | 6857.5 |
| 25° | 6091.5 | 5720.7 | 5019.0 | 4590.0 | 4348.0 | 4587.0 | 4899.5 | 5279.5 | 5705.4 | 6146.6 | 6407.1 |
| 27.5° | 5092.6 | 4810.7 | 4308.1 | 3922.1 | 3710.6 | 3747.4 | 4014.0 | 4360.2 | 4755.5 | 5052.7 | 5242.7 |
| 30° | 3836.3 | 3710.6 | 3450.2 | 3318.4 | 3189.7 | 3159.1 | 3272.5 | 3404.2 | 3578.9 | 3615.7 | 3664.7 |
| 32.5° | 2825.1 | 2806.7 | 2822.0 | 2779.1 | 2754.6 | 2751.6 | 2717.9 | 2748.5 | 2766.9 | 2788.3 | 2745.4 |
| 35° | 2555.5 | 2531.0 | 2488.1 | 2475.8 | 2460.5 | 2466.6 | 2451.3 | 2436.0 | 2448.2 | 2466.6 | 2478.9 |
| 37.5° | 2417.6 | 2380.8 | 2319.5 | 2298.1 | 2298.1 | 2307.3 | 2282.8 | 2276.6 | 2298.1 | 2356.3 | 2386.9 |
| 40° | 2310.3 | 2267.4 | 2197.0 | 2169.4 | 2187.8 | 2212.3 | 2178.6 | 2166.3 | 2218.4 | 2279.7 | 2328.7 |
| 42.5° | 2209.2 | 2175.5 | 2108.1 | 2077.5 | 2092.8 | 2138.7 | 2089.7 | 2080.5 | 2147.9 | 2215.4 | 2273.6 |
| 45° | 2123.4 | 2089.7 | 2028.4 | 2013.1 | 2019.2 | 2062.1 | 2028.4 | 2028.4 | 2092.8 | 2166.3 | 2218.4 |
| 47.5° | 2056.0 | 2013.1 | 1973.3 | 1961.0 | 1967.2 | 1991.7 | 1985.5 | 1985.5 | 2046.8 | 2123.4 | 2175.5 |
| 50° | 1988.6 | 1951.8 | 1899.7 | 1905.9 | 1921.2 | 1954.9 | 1951.8 | 1961.0 | 2022.3 | 2117.3 | 2172.5 |
| 52.5° | 1958.0 | 1902.8 | 1844.6 | 1850.7 | 1896.7 | 1936.5 | 1924.3 | 1933.5 | 2003.9 | 2181.6 | 2261.3 |
| 55° | 1924.3 | 1850.7 | 1783.3 | 1792.5 | 1844.6 | 1902.8 | 1887.5 | 1899.7 | 1982.5 | 2224.5 | 2334.9 |
| 57.5° | 1859.9 | 1774.1 | 1700.6 | 1706.7 | 1783.3 | 1844.6 | 1820.1 | 1835.4 | 1933.5 | 2178.6 | 2295.0 |
| 58° | 1832.3 | 1758.8 | 1688.3 | 1691.4 | 1764.9 | 1832.3 | 1804.8 | 1817.0 | 1918.1 | 2166.3 | 2276.6 |
| 60° | 1715.9 | 1673.0 | 1611.7 | 1614.8 | 1685.3 | 1743.5 | 1728.2 | 1740.4 | 1838.5 | 2077.5 | 2160.2 |
| 62.5° | 1556.6 | 1532.1 | 1516.7 | 1516.7 | 1559.6 | 1614.8 | 1630.1 | 1645.4 | 1734.3 | 1878.3 | 1951.8 |
| 65° | 1385.0 | 1385.0 | 1388.0 | 1388.0 | 1415.6 | 1486.1 | 1495.3 | 1535.1 | 1617.9 | 1688.3 | 1743.5 |
| 67.5° | 1268.5 | 1262.4 | 1268.5 | 1253.2 | 1265.5 | 1308.4 | 1354.3 | 1391.1 | 1476.9 | 1525.9 | 1544.3 |
| 70° | 1118.4 | 1115.3 | 1118.4 | 1097.0 | 1112.3 | 1149.0 | 1179.7 | 1241.0 | 1329.8 | 1366.6 | 1375.8 |
| 72.5° | 971.3 | 971.3 | 977.5 | 962.1 | 962.1 | 1002.0 | 1023.4 | 1090.8 | 1173.6 | 1195.0 | 1198.1 |
| 75° | 818.1 | 827.3 | 827.3 | 805.9 | 812.0 | 836.5 | 864.1 | 919.2 | 995.8 | 1011.2 | 1011.2 |
| 77.5° | 649.6 | 683.3 | 683.3 | 661.8 | 671.0 | 674.1 | 710.9 | 738.5 | 796.7 | 802.8 | 778.3 |
| 80° | 471.9 | 505.6 | 533.2 | 514.8 | 530.1 | 511.7 | 533.2 | 551.5 | 609.8 | 582.2 | 542.3 |
| 82.5° | 337.1 | 361.6 | 383.0 | 386.1 | 370.8 | 337.1 | 364.6 | 367.7 | 395.3 | 358.5 | 337.1 |
| 85° | 186.9 | 208.4 | 235.9 | 223.7 | 199.2 | 177.7 | 186.9 | 193.0 | 190.0 | 180.8 | 168.5 |
| 87.5° | 49.0 | 52.1 | 58.2 | 42.9 | 39.8 | 33.7 | 46.0 | 46.0 | 52.1 | 55.2 | 52.1 |
| 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-SA7D-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 |
| 2.5° | 9924.7 | 10059.5 | 10350.6 | 10571.2 | 10840.8 | 11168.7 | 11554.8 | 11943.9 | 12363.7 | 12495.4 | 12679.3 |
| 5° | 8211.8 | 8548.9 | 8689.8 | 9091.2 | 9489.6 | 10087.1 | 10724.4 | 11462.8 | 12271.8 | 12660.9 | 13034.7 |
| 7.5° | 7016.8 | 7197.6 | 7344.7 | 7638.8 | 8116.8 | 8843.0 | 9642.8 | 10565.1 | 11711.0 | 12277.9 | 12826.4 |
| 10° | 6373.4 | 6391.7 | 6572.5 | 6937.1 | 7353.9 | 7994.3 | 8751.1 | 9783.7 | 11061.4 | 11750.9 | 12394.3 |
| 12.5° | 5947.4 | 5867.8 | 6063.9 | 6443.8 | 6915.7 | 7507.1 | 8202.6 | 9186.2 | 10592.6 | 11300.4 | 12078.7 |
| 15° | 5573.6 | 5448.0 | 5595.1 | 5984.2 | 6450.0 | 7145.5 | 7893.2 | 8934.9 | 10408.8 | 11233.0 | 12097.1 |
| 17.5° | 5582.8 | 5236.6 | 5288.7 | 5616.5 | 6079.2 | 6787.0 | 7694.0 | 8925.8 | 10687.6 | 11637.5 | 12660.9 |
| 20° | 6272.2 | 5717.6 | 5481.7 | 5543.0 | 5990.3 | 6762.5 | 7785.9 | 9354.7 | 11603.8 | 12988.8 | 14082.7 |
| 22.5° | 6949.4 | 6615.4 | 6235.5 | 6109.8 | 6355.0 | 7163.9 | 8371.2 | 10369.0 | 13595.5 | 15682.1 | 17658.5 |
| 25° | 6713.5 | 6998.4 | 6903.4 | 6725.7 | 6780.9 | 7451.9 | 8769.5 | 11202.4 | 15142.8 | 17493.0 | 19349.9 |
| 27.5° | 5371.4 | 5889.2 | 5993.4 | 5990.3 | 6011.8 | 6563.3 | 7887.0 | 10641.7 | 15335.9 | 17839.3 | 19613.4 |
| 30° | 3775.0 | 3820.9 | 3876.1 | 3983.3 | 4081.4 | 4574.7 | 6171.1 | 9342.5 | 15250.1 | 17995.5 | 19772.7 |
| 32.5° | 2724.0 | 2785.3 | 2861.9 | 3009.0 | 3241.8 | 3870.0 | 5399.0 | 8928.8 | 15703.6 | 18642.1 | 20238.5 |
| 35° | 2491.1 | 2561.6 | 2635.1 | 2803.7 | 3024.3 | 3606.5 | 5092.6 | 8757.2 | 16448.2 | 19690.0 | 21075.0 |
| 37.5° | 2417.6 | 2497.3 | 2561.6 | 2684.2 | 2861.9 | 3416.5 | 4813.7 | 8640.8 | 17211.1 | 20799.2 | 22196.4 |
| 40° | 2365.5 | 2457.4 | 2509.5 | 2607.6 | 2730.1 | 3241.8 | 4565.5 | 8548.9 | 17949.6 | 21813.4 | 23097.3 |
| 42.5° | 2319.5 | 2414.5 | 2481.9 | 2552.4 | 2653.5 | 3085.6 | 4344.9 | 8456.9 | 18590.0 | 22797.0 | 23995.1 |
| 45° | 2264.4 | 2383.9 | 2469.7 | 2524.8 | 2613.7 | 2953.8 | 4176.4 | 8383.4 | 19319.2 | 23670.3 | 24902.0 |
| 47.5° | 2218.4 | 2350.2 | 2457.4 | 2521.8 | 2555.5 | 2861.9 | 4041.6 | 8484.5 | 20195.6 | 24583.4 | 25744.7 |
| 50° | 2221.5 | 2347.1 | 2481.9 | 2583.0 | 2494.2 | 2785.3 | 3958.8 | 8885.9 | 21335.4 | 25668.1 | 26409.6 |
| 52.5° | 2319.5 | 2472.7 | 2580.0 | 2604.5 | 2408.4 | 2693.4 | 3915.9 | 9587.6 | 22683.6 | 26627.1 | 27080.6 |
| 55° | 2429.8 | 2589.2 | 2705.6 | 2690.3 | 2362.4 | 2576.9 | 3906.7 | 10335.2 | 24160.5 | 27745.5 | 27953.9 |
| 57.5° | 2390.0 | 2622.9 | 2800.6 | 2720.9 | 2365.5 | 2463.5 | 3866.9 | 10938.9 | 25395.4 | 28582.0 | 28818.0 |
| 58° | 2377.8 | 2610.6 | 2812.9 | 2714.8 | 2356.3 | 2429.8 | 3857.7 | 10991.0 | 25566.9 | 28640.3 | 28940.5 |
| 60° | 2258.3 | 2503.4 | 2803.7 | 2668.8 | 2304.2 | 2337.9 | 3756.6 | 11159.5 | 25521.0 | 28340.0 | 29014.1 |
| 62.5° | 2040.7 | 2242.9 | 2592.2 | 2445.2 | 2144.9 | 2215.4 | 3529.9 | 10951.1 | 24277.0 | 26893.7 | 27938.6 |
| 65° | 1795.6 | 1945.7 | 2178.6 | 2151.0 | 1918.1 | 2089.7 | 3220.4 | 10126.9 | 21785.8 | 24546.6 | 25646.6 |
| 67.5° | 1611.7 | 1734.3 | 1881.4 | 1841.5 | 1725.1 | 1921.2 | 2886.4 | 8732.7 | 18991.4 | 21727.6 | 23112.6 |
| 70° | 1424.8 | 1519.8 | 1593.3 | 1565.8 | 1529.0 | 1755.7 | 2589.2 | 7087.3 | 16313.3 | 19049.6 | 20391.7 |
| 72.5° | 1234.8 | 1323.7 | 1385.0 | 1345.1 | 1323.7 | 1581.1 | 2347.1 | 5500.1 | 12884.6 | 15715.8 | 17440.9 |
| 75° | 1032.6 | 1121.5 | 1164.4 | 1118.4 | 1106.1 | 1394.2 | 1988.6 | 4109.0 | 9667.3 | 12115.5 | 13604.7 |
| 77.5° | 799.7 | 894.7 | 949.9 | 934.6 | 940.7 | 1146.0 | 1605.6 | 2812.9 | 6912.6 | 8257.8 | 9826.6 |
| 80° | 560.7 | 664.9 | 701.7 | 686.4 | 729.3 | 873.3 | 1133.7 | 1786.4 | 4767.8 | 5359.1 | 6465.3 |
| 82.5° | 346.2 | 444.3 | 450.4 | 465.7 | 496.4 | 646.5 | 854.9 | 1087.8 | 2993.6 | 3094.8 | 3897.6 |
| 85° | 174.7 | 211.4 | 226.7 | 251.3 | 278.8 | 395.3 | 487.2 | 674.1 | 1927.3 | 1458.5 | 2178.6 |
| 87.5° | 58.2 | 61.3 | 73.5 | 91.9 | 113.4 | 162.4 | 208.4 | 275.8 | 478.0 | 263.5 | 674.1 |
| 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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| 0° | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 | 11655.9 |
| 2.5° | 13050.1 | 13310.5 | 13500.5 | 13675.1 | 13506.6 | 13491.3 | 13325.8 | 13059.2 | 12948.9 | 12948.9 |
| 5° | 13819.1 | 14428.9 | 14922.2 | 15237.8 | 15103.0 | 14778.2 | 14242.0 | 13558.7 | 13191.0 | 13126.7 |
| 7.5° | 14030.6 | 15234.8 | 16150.9 | 16475.7 | 16249.0 | 15532.0 | 14505.5 | 13353.4 | 12826.4 | 12709.9 |
| 10° | 13901.9 | 15467.6 | 16812.8 | 17327.6 | 17011.9 | 15927.3 | 14527.0 | 13114.4 | 12464.8 | 12330.0 |
| 12.5° | 13767.1 | 15498.3 | 16935.3 | 17679.9 | 17474.6 | 16245.9 | 14683.2 | 12958.1 | 12207.4 | 12014.4 |
| 15° | 13865.1 | 15510.5 | 16785.2 | 17554.3 | 17686.1 | 16628.9 | 14940.6 | 13071.5 | 12155.3 | 11950.0 |
| 17.5° | 14484.1 | 15743.4 | 16570.7 | 17192.7 | 17655.4 | 17149.8 | 15672.9 | 13613.8 | 12621.1 | 12366.8 |
| 20° | 15777.1 | 16301.1 | 16693.3 | 17174.3 | 17918.9 | 18213.1 | 17171.3 | 15103.0 | 13929.5 | 13705.8 |
| 22.5° | 19521.5 | 19426.5 | 18623.7 | 18614.5 | 19693.0 | 20872.7 | 20802.3 | 18130.3 | 16365.4 | 16181.6 |
| 25° | 20924.8 | 20483.6 | 19322.3 | 19040.4 | 19515.3 | 21335.4 | 21071.9 | 18749.3 | 17119.2 | 16671.8 |
| 27.5° | 20376.3 | 19282.5 | 18519.5 | 18455.1 | 18298.9 | 20017.8 | 20652.1 | 19000.6 | 17382.7 | 16947.6 |
| 30° | 20342.6 | 18734.0 | 17643.2 | 17771.8 | 17922.0 | 19564.4 | 20885.0 | 19788.0 | 18056.8 | 17591.1 |
| 32.5° | 20425.4 | 18810.6 | 17707.5 | 17732.0 | 18179.4 | 19631.8 | 21142.4 | 20646.0 | 18942.3 | 18476.6 |
| 35° | 20759.4 | 19245.7 | 18118.1 | 18059.9 | 18758.5 | 20073.0 | 21580.5 | 21994.2 | 20152.7 | 19622.6 |
| 37.5° | 21298.6 | 20112.8 | 18868.8 | 18853.5 | 19867.7 | 20869.7 | 22126.0 | 23354.7 | 21356.9 | 20786.9 |
| 40° | 22092.2 | 21127.0 | 20204.8 | 20122.0 | 21375.2 | 22165.8 | 22833.8 | 24804.0 | 22757.2 | 22024.8 |
| 42.5° | 23051.3 | 22343.5 | 21966.6 | 22294.5 | 23498.7 | 23621.2 | 23936.8 | 26143.0 | 23949.1 | 23097.3 |
| 45° | 23939.9 | 23906.2 | 24430.2 | 25300.4 | 26002.1 | 25266.7 | 25088.9 | 27040.8 | 24874.5 | 23949.1 |
| 47.5° | 24997.0 | 25910.1 | 27491.2 | 28765.9 | 29501.3 | 27181.7 | 26072.5 | 27626.0 | 25548.6 | 24696.7 |
| 50° | 26069.5 | 28309.3 | 30834.2 | 32611.3 | 32767.6 | 29262.3 | 26749.7 | 28177.6 | 26161.4 | 25275.9 |
| 52.5° | 27197.1 | 30224.4 | 33585.7 | 35650.9 | 35347.6 | 31073.2 | 27405.4 | 28551.4 | 26792.6 | 26014.3 |
| 55° | 28177.6 | 31398.0 | 35123.9 | 37106.4 | 36662.1 | 32176.2 | 28113.2 | 28955.9 | 27693.4 | 27037.7 |
| 57.5° | 28726.0 | 31496.0 | 34740.9 | 36472.1 | 35991.1 | 31961.7 | 28438.0 | 29256.1 | 28269.5 | 27754.7 |
| 58° | 28805.7 | 31364.2 | 34400.8 | 36104.4 | 35614.2 | 31781.0 | 28435.0 | 29243.9 | 28306.3 | 27788.4 |
| 60° | 28735.2 | 30509.4 | 33135.3 | 34652.0 | 34137.3 | 30647.2 | 28318.5 | 29014.1 | 27840.5 | 27402.4 |
| 62.5° | 28082.6 | 29026.3 | 30950.6 | 32053.7 | 31906.6 | 28876.2 | 27840.5 | 28146.9 | 26421.8 | 25999.0 |
| 65° | 27224.6 | 27004.0 | 28153.1 | 28934.4 | 29044.7 | 27549.4 | 27365.6 | 26271.7 | 24601.8 | 24004.3 |
| 67.5° | 26182.8 | 24712.1 | 24709.0 | 25153.3 | 25337.1 | 25508.7 | 26375.9 | 24234.1 | 21978.9 | 21347.7 |
| 70° | 24414.8 | 21179.1 | 20204.8 | 20728.7 | 20575.5 | 22024.8 | 24607.9 | 21372.2 | 18816.7 | 18078.3 |
| 72.5° | 21173.0 | 16806.7 | 15247.0 | 15921.1 | 15535.0 | 17272.4 | 21531.5 | 17588.0 | 15559.6 | 14652.6 |
| 75° | 17162.1 | 12572.1 | 10963.4 | 11582.3 | 11343.3 | 13102.1 | 17915.9 | 12774.3 | 11159.5 | 10813.3 |
| 77.5° | 13325.8 | 9109.6 | 8175.0 | 8089.3 | 8267.0 | 9750.0 | 13142.0 | 8625.5 | 7356.9 | 7121.0 |
| 80° | 8561.1 | 6520.4 | 6575.6 | 6465.3 | 6557.2 | 6146.6 | 7978.9 | 5503.1 | 4982.2 | 4792.3 |
| 82.5° | 5634.9 | 4544.1 | 5417.3 | 5000.6 | 4749.4 | 4133.5 | 5233.5 | 3603.4 | 3058.0 | 2953.8 |
| 85° | 3839.3 | 3346.0 | 3045.7 | 2328.7 | 2742.4 | 3183.6 | 3925.1 | 1939.6 | 1538.2 | 1394.2 |
| 87.5° | 1734.3 | 1164.4 | 854.9 | 527.0 | 833.4 | 962.1 | 1905.9 | 226.7 | 174.7 | 180.8 |
| 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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