

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: P456121

Luminaire Tested: **GLAN-SA7B-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456121
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-SA7B-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 800mA 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: 34163 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

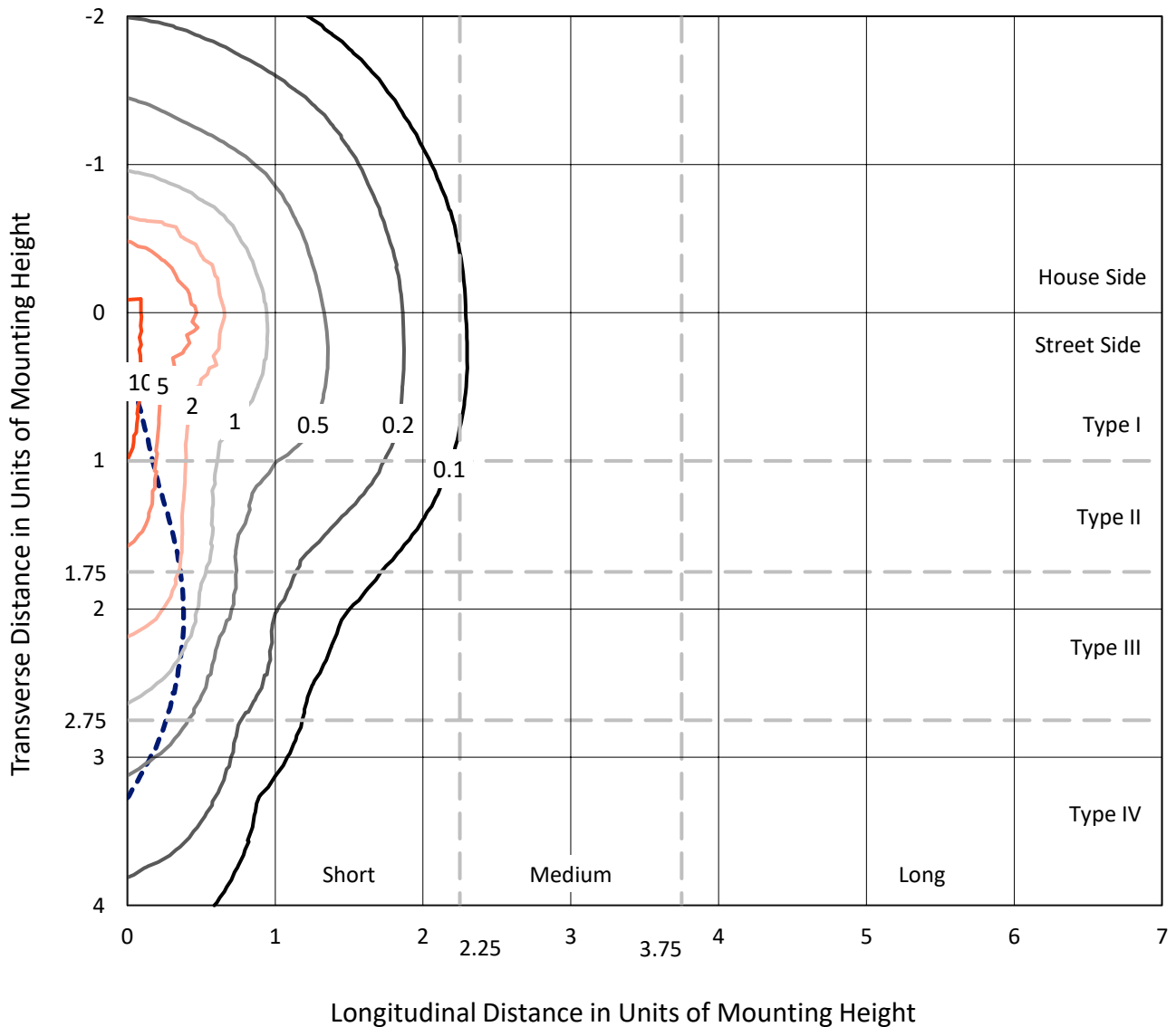
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

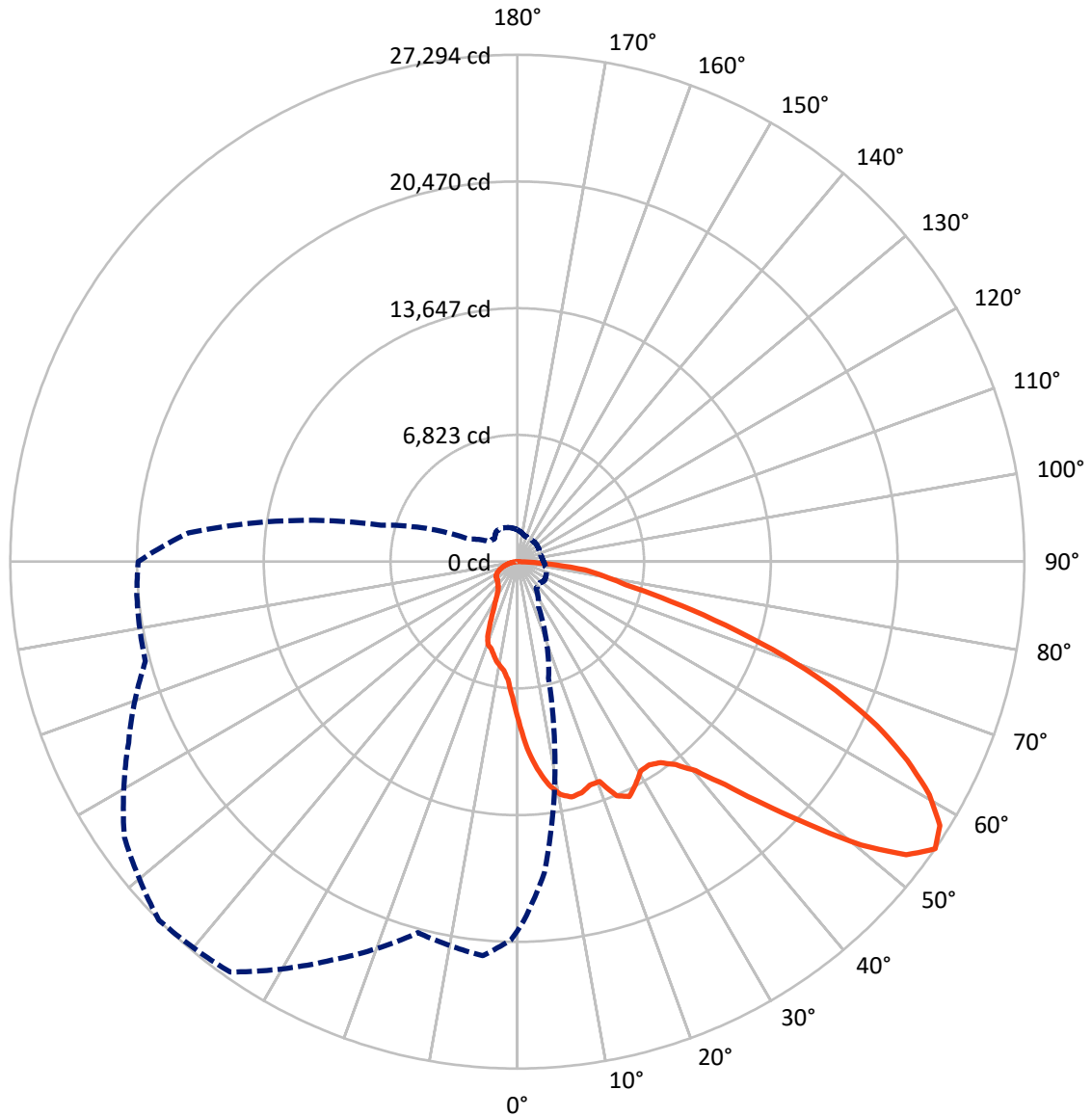
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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-SA7B-760-U-SLR

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7473.0 | 0.0 | 7473.0 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 26690.0 | 0.0 | 26690.0 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 34163.0 | 0.0 | 34163.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 726.6 | 2.1 |
| 10°-20° | 1927.8 | 5.6 |
| 20°-30° | 3330.3 | 9.7 |
| 30°-40° | 3870.4 | 11.3 |
| 40°-50° | 5400.0 | 15.8 |
| 50°-60° | 7327.1 | 21.4 |
| 60°-70° | 6970.9 | 20.4 |
| 70°-80° | 3765.9 | 11.0 |
| 80°-90° | 844.0 | 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° | 34163.0 | 100.0 |
| 0°-180° | 34163.0 | 100.0 |

Coefficient of Utilization



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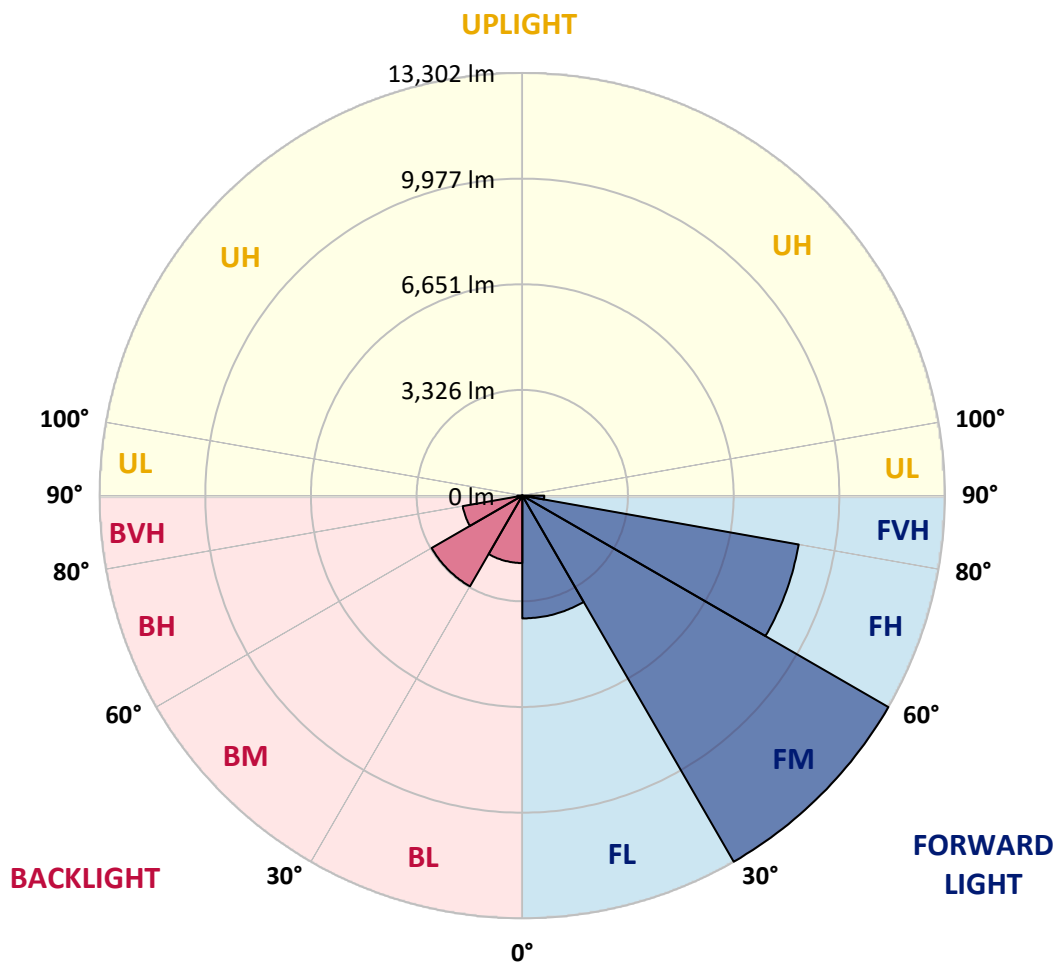
CATALOG NUMBER: GLAN-SA7B-760-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3863.9 | 11.3 | | | |
| FM | (30°-60°) | 13302.4 | 38.9 | | | |
| FH | (60°-80°) | 8834.0 | 25.9 | | | G4/12000 |
| FVH | (80°-90°) | 689.8 | 2.0 | | | G4/750 |
| BL | (0°-30°) | 2120.9 | 6.2 | B3/2500 | | |
| BM | (30°-60°) | 3295.1 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 1902.8 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 154.2 | 0.5 | | | 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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CATALOG NUMBER: GLAN-SA7B-760-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 |
| 2.5° | 9524.7 | 9488.6 | 9387.2 | 9121.3 | 8853.1 | 8580.3 | 8370.7 | 8109.3 | 7836.6 | 7690.1 | 7503.0 |
| 5° | 9655.4 | 9614.8 | 9375.9 | 8776.4 | 8233.2 | 7663.0 | 7207.8 | 6808.8 | 6646.6 | 6407.6 | 6216.1 |
| 7.5° | 9348.9 | 9330.9 | 8972.5 | 8111.5 | 7367.8 | 6621.8 | 6105.6 | 5785.6 | 5494.8 | 5386.7 | 5409.2 |
| 10° | 9069.4 | 8997.3 | 8548.8 | 7424.1 | 6556.4 | 5950.1 | 5580.5 | 5267.2 | 5062.1 | 5008.0 | 5019.3 |
| 12.5° | 8837.3 | 8740.4 | 8210.7 | 6962.1 | 6202.5 | 5718.0 | 5246.9 | 4920.1 | 4733.0 | 4784.9 | 4960.7 |
| 15° | 8789.9 | 8659.2 | 8068.7 | 6804.3 | 6008.7 | 5384.4 | 4868.3 | 4491.9 | 4352.2 | 4464.8 | 4746.6 |
| 17.5° | 9096.5 | 8931.9 | 8312.1 | 6856.2 | 5823.9 | 5044.1 | 4410.8 | 3980.3 | 3863.1 | 4043.4 | 4410.8 |
| 20° | 10081.4 | 9838.0 | 9071.7 | 7155.9 | 5805.9 | 4875.0 | 4144.8 | 3712.1 | 3761.6 | 4104.2 | 4487.4 |
| 22.5° | 11902.5 | 11537.4 | 10401.4 | 7593.2 | 5900.5 | 4832.2 | 4090.7 | 3865.3 | 4138.0 | 4428.8 | 4681.2 |
| 25° | 12263.1 | 11976.9 | 10640.3 | 7692.3 | 5880.2 | 4802.9 | 4244.0 | 4356.7 | 4660.9 | 4805.2 | 4717.3 |
| 27.5° | 12465.9 | 12139.1 | 10624.6 | 7201.0 | 5258.2 | 4356.7 | 4056.9 | 4244.0 | 4320.6 | 4180.9 | 3942.0 |
| 30° | 12939.3 | 12598.9 | 10892.8 | 6684.9 | 4329.6 | 3232.0 | 2833.1 | 2756.4 | 2808.3 | 2835.3 | 2749.7 |
| 32.5° | 13590.6 | 13254.8 | 11397.6 | 6346.8 | 3743.6 | 2673.0 | 2280.9 | 2172.7 | 2147.9 | 2118.6 | 2084.8 |
| 35° | 14433.5 | 13917.4 | 11893.5 | 6130.4 | 3502.5 | 2472.5 | 2111.8 | 2028.4 | 1994.6 | 1954.1 | 1918.0 |
| 37.5° | 15290.0 | 14749.1 | 12520.0 | 5902.8 | 3342.4 | 2332.7 | 1999.1 | 1960.8 | 1902.2 | 1859.4 | 1807.6 |
| 40° | 16200.5 | 15594.3 | 13090.3 | 5704.4 | 3186.9 | 2242.6 | 1918.0 | 1913.5 | 1836.9 | 1787.3 | 1726.4 |
| 42.5° | 16989.4 | 16365.1 | 13599.6 | 5582.7 | 3067.5 | 2147.9 | 1868.4 | 1882.0 | 1803.1 | 1728.7 | 1649.8 |
| 45° | 17616.0 | 17002.9 | 14070.7 | 5582.7 | 2970.6 | 2053.2 | 1859.4 | 1850.4 | 1771.5 | 1679.1 | 1589.0 |
| 47.5° | 18165.9 | 17532.6 | 14530.5 | 5724.7 | 2909.7 | 1974.4 | 1809.8 | 1825.6 | 1744.5 | 1627.3 | 1539.4 |
| 50° | 18591.9 | 18032.9 | 15150.3 | 5945.6 | 2848.8 | 1911.2 | 1746.7 | 1832.4 | 1721.9 | 1600.2 | 1498.8 |
| 52.5° | 19135.0 | 18634.7 | 15896.3 | 6247.6 | 2797.0 | 1841.4 | 1690.4 | 1832.4 | 1719.7 | 1602.5 | 1492.0 |
| 55° | 19887.8 | 19360.4 | 16795.6 | 6497.8 | 2713.6 | 1776.0 | 1640.8 | 1780.5 | 1712.9 | 1591.2 | 1474.0 |
| 57.5° | 20415.2 | 20020.8 | 17431.1 | 6664.6 | 2594.2 | 1692.6 | 1595.7 | 1730.9 | 1683.6 | 1548.4 | 1419.9 |
| 58° | 20440.0 | 20054.6 | 17523.5 | 6702.9 | 2564.9 | 1676.9 | 1584.4 | 1708.4 | 1670.1 | 1530.4 | 1401.9 |
| 60° | 20156.0 | 19824.7 | 17541.6 | 6648.8 | 2398.1 | 1598.0 | 1525.8 | 1616.0 | 1598.0 | 1424.4 | 1305.0 |
| 62.5° | 19123.8 | 18769.9 | 16813.6 | 6209.3 | 2177.2 | 1501.1 | 1435.7 | 1492.0 | 1451.5 | 1275.7 | 1165.2 |
| 65° | 17656.5 | 17005.2 | 15317.0 | 5519.6 | 2019.4 | 1397.4 | 1314.0 | 1318.5 | 1275.7 | 1149.5 | 1052.5 |
| 67.5° | 15702.5 | 14974.5 | 12968.6 | 4651.9 | 1900.0 | 1282.4 | 1169.7 | 1158.5 | 1106.6 | 1025.5 | 946.6 |
| 70° | 13297.6 | 12799.5 | 10538.9 | 3784.2 | 1767.0 | 1156.2 | 1007.5 | 1000.7 | 969.1 | 908.3 | 838.4 |
| 72.5° | 10777.8 | 10144.5 | 8510.5 | 3029.2 | 1604.7 | 1034.5 | 856.5 | 870.0 | 829.4 | 786.6 | 723.5 |
| 75° | 7953.8 | 7539.1 | 6578.9 | 2429.6 | 1386.1 | 901.5 | 714.5 | 719.0 | 700.9 | 655.9 | 606.3 |
| 77.5° | 5237.9 | 5113.9 | 4706.0 | 1595.7 | 1066.1 | 716.7 | 583.7 | 588.3 | 574.7 | 534.2 | 482.3 |
| 80° | 3525.0 | 3441.6 | 3189.2 | 1027.7 | 712.2 | 518.4 | 450.8 | 455.3 | 453.0 | 410.2 | 340.3 |
| 82.5° | 2172.7 | 2136.6 | 2055.5 | 694.2 | 493.6 | 371.9 | 297.5 | 311.0 | 335.8 | 288.5 | 232.1 |
| 85° | 1025.5 | 1027.7 | 1241.9 | 378.6 | 290.7 | 238.9 | 162.3 | 173.5 | 173.5 | 173.5 | 130.7 |
| 87.5° | 133.0 | 139.7 | 171.3 | 160.0 | 105.9 | 90.2 | 58.6 | 49.6 | 42.8 | 56.3 | 40.6 |
| 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-SA7B-760-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 |
| 2.5° | 7437.6 | 7392.6 | 7295.7 | 7273.1 | 7259.6 | 7297.9 | 7196.5 | 7223.5 | 7178.5 | 7304.7 | 7284.4 |
| 5° | 6227.3 | 6231.8 | 6310.7 | 6362.6 | 6380.6 | 6362.6 | 6295.0 | 6177.8 | 6087.6 | 6051.5 | 6060.6 |
| 7.5° | 5366.4 | 5445.3 | 5580.5 | 5731.5 | 5869.0 | 5909.5 | 5871.2 | 5648.1 | 5404.7 | 5251.4 | 5201.8 |
| 10° | 5080.1 | 5186.1 | 5341.6 | 5461.0 | 5582.7 | 5679.7 | 5699.9 | 5526.4 | 5237.9 | 4875.0 | 4733.0 |
| 12.5° | 5095.9 | 5240.2 | 5388.9 | 5427.2 | 5416.0 | 5454.3 | 5436.2 | 5406.9 | 5217.6 | 4755.6 | 4518.9 |
| 15° | 4947.2 | 5118.5 | 5222.1 | 5201.8 | 5165.8 | 5132.0 | 5084.6 | 5010.3 | 4942.7 | 4618.1 | 4356.7 |
| 17.5° | 4604.6 | 4780.4 | 4866.0 | 4872.8 | 4872.8 | 4863.8 | 4748.8 | 4721.8 | 4712.8 | 4555.0 | 4395.0 |
| 20° | 4667.7 | 4764.6 | 4726.3 | 4663.2 | 4681.2 | 4742.1 | 4674.4 | 4660.9 | 4712.8 | 4782.6 | 4753.3 |
| 22.5° | 4703.7 | 4669.9 | 4381.5 | 4102.0 | 4038.9 | 4228.2 | 4266.5 | 4417.5 | 4627.1 | 4879.5 | 5044.1 |
| 25° | 4480.6 | 4207.9 | 3691.8 | 3376.2 | 3198.2 | 3374.0 | 3603.9 | 3883.4 | 4196.6 | 4521.2 | 4712.8 |
| 27.5° | 3745.9 | 3538.5 | 3168.9 | 2884.9 | 2729.4 | 2756.4 | 2952.5 | 3207.2 | 3497.9 | 3716.6 | 3856.3 |
| 30° | 2821.8 | 2729.4 | 2537.8 | 2440.9 | 2346.2 | 2323.7 | 2407.1 | 2504.0 | 2632.5 | 2659.5 | 2695.6 |
| 32.5° | 2078.0 | 2064.5 | 2075.8 | 2044.2 | 2026.2 | 2023.9 | 1999.1 | 2021.7 | 2035.2 | 2051.0 | 2019.4 |
| 35° | 1879.7 | 1861.7 | 1830.1 | 1821.1 | 1809.8 | 1814.3 | 1803.1 | 1791.8 | 1800.8 | 1814.3 | 1823.4 |
| 37.5° | 1778.3 | 1751.2 | 1706.2 | 1690.4 | 1690.4 | 1697.1 | 1679.1 | 1674.6 | 1690.4 | 1733.2 | 1755.7 |
| 40° | 1699.4 | 1667.8 | 1616.0 | 1595.7 | 1609.2 | 1627.3 | 1602.5 | 1593.5 | 1631.8 | 1676.9 | 1712.9 |
| 42.5° | 1625.0 | 1600.2 | 1550.6 | 1528.1 | 1539.4 | 1573.2 | 1537.1 | 1530.4 | 1579.9 | 1629.5 | 1672.3 |
| 45° | 1561.9 | 1537.1 | 1492.0 | 1480.8 | 1485.3 | 1516.8 | 1492.0 | 1492.0 | 1539.4 | 1593.5 | 1631.8 |
| 47.5° | 1512.3 | 1480.8 | 1451.5 | 1442.5 | 1447.0 | 1465.0 | 1460.5 | 1460.5 | 1505.6 | 1561.9 | 1600.2 |
| 50° | 1462.7 | 1435.7 | 1397.4 | 1401.9 | 1413.2 | 1437.9 | 1435.7 | 1442.5 | 1487.5 | 1557.4 | 1598.0 |
| 52.5° | 1440.2 | 1399.6 | 1356.8 | 1361.3 | 1395.1 | 1424.4 | 1415.4 | 1422.2 | 1474.0 | 1604.7 | 1663.3 |
| 55° | 1415.4 | 1361.3 | 1311.7 | 1318.5 | 1356.8 | 1399.6 | 1388.4 | 1397.4 | 1458.2 | 1636.3 | 1717.4 |
| 57.5° | 1368.1 | 1305.0 | 1250.9 | 1255.4 | 1311.7 | 1356.8 | 1338.8 | 1350.0 | 1422.2 | 1602.5 | 1688.1 |
| 58° | 1347.8 | 1293.7 | 1241.9 | 1244.1 | 1298.2 | 1347.8 | 1327.5 | 1336.5 | 1410.9 | 1593.5 | 1674.6 |
| 60° | 1262.1 | 1230.6 | 1185.5 | 1187.8 | 1239.6 | 1282.4 | 1271.2 | 1280.2 | 1352.3 | 1528.1 | 1589.0 |
| 62.5° | 1144.9 | 1126.9 | 1115.6 | 1115.6 | 1147.2 | 1187.8 | 1199.0 | 1210.3 | 1275.7 | 1381.6 | 1435.7 |
| 65° | 1018.7 | 1018.7 | 1021.0 | 1021.0 | 1041.3 | 1093.1 | 1099.9 | 1129.2 | 1190.0 | 1241.9 | 1282.4 |
| 67.5° | 933.1 | 928.6 | 933.1 | 921.8 | 930.8 | 962.4 | 996.2 | 1023.2 | 1086.3 | 1122.4 | 1135.9 |
| 70° | 822.6 | 820.4 | 822.6 | 806.9 | 818.1 | 845.2 | 867.7 | 912.8 | 978.2 | 1005.2 | 1012.0 |
| 72.5° | 714.5 | 714.5 | 719.0 | 707.7 | 707.7 | 737.0 | 752.8 | 802.4 | 863.2 | 879.0 | 881.2 |
| 75° | 601.8 | 608.5 | 608.5 | 592.8 | 597.3 | 615.3 | 635.6 | 676.1 | 732.5 | 743.8 | 743.8 |
| 77.5° | 477.8 | 502.6 | 502.6 | 486.8 | 493.6 | 495.8 | 522.9 | 543.2 | 586.0 | 590.5 | 572.5 |
| 80° | 347.1 | 371.9 | 392.2 | 378.6 | 389.9 | 376.4 | 392.2 | 405.7 | 448.5 | 428.2 | 398.9 |
| 82.5° | 247.9 | 266.0 | 281.7 | 284.0 | 272.7 | 247.9 | 268.2 | 270.5 | 290.7 | 263.7 | 247.9 |
| 85° | 137.5 | 153.3 | 173.5 | 164.5 | 146.5 | 130.7 | 137.5 | 142.0 | 139.7 | 133.0 | 124.0 |
| 87.5° | 36.1 | 38.3 | 42.8 | 31.6 | 29.3 | 24.8 | 33.8 | 33.8 | 38.3 | 40.6 | 38.3 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 | 8573.6 |
| 2.5° | 7300.2 | 7399.3 | 7613.4 | 7775.7 | 7974.1 | 8215.2 | 8499.2 | 8785.4 | 9094.2 | 9191.1 | 9326.4 |
| 5° | 6040.3 | 6288.2 | 6391.9 | 6687.1 | 6980.1 | 7419.6 | 7888.4 | 8431.6 | 9026.6 | 9312.8 | 9587.8 |
| 7.5° | 5161.3 | 5294.3 | 5402.4 | 5618.8 | 5970.4 | 6504.6 | 7092.8 | 7771.2 | 8614.1 | 9031.1 | 9434.5 |
| 10° | 4688.0 | 4701.5 | 4834.5 | 5102.7 | 5409.2 | 5880.2 | 6436.9 | 7196.5 | 8136.3 | 8643.4 | 9116.8 |
| 12.5° | 4374.7 | 4316.1 | 4460.3 | 4739.8 | 5086.9 | 5521.9 | 6033.5 | 6757.0 | 7791.5 | 8312.1 | 8884.6 |
| 15° | 4099.7 | 4007.3 | 4115.5 | 4401.7 | 4744.3 | 5255.9 | 5805.9 | 6572.2 | 7656.3 | 8262.5 | 8898.1 |
| 17.5° | 4106.5 | 3851.8 | 3890.1 | 4131.3 | 4471.6 | 4992.2 | 5659.4 | 6565.4 | 7861.4 | 8560.1 | 9312.8 |
| 20° | 4613.6 | 4205.7 | 4032.1 | 4077.2 | 4406.2 | 4974.2 | 5727.0 | 6881.0 | 8535.3 | 9554.0 | 10358.6 |
| 22.5° | 5111.7 | 4866.0 | 4586.5 | 4494.1 | 4674.4 | 5269.5 | 6157.5 | 7627.0 | 10000.3 | 11535.1 | 12988.8 |
| 25° | 4938.1 | 5147.8 | 5077.9 | 4947.2 | 4987.7 | 5481.3 | 6450.5 | 8240.0 | 11138.4 | 12867.1 | 14233.0 |
| 27.5° | 3951.0 | 4331.9 | 4408.5 | 4406.2 | 4422.0 | 4827.7 | 5801.4 | 7827.6 | 11280.4 | 13121.8 | 14426.8 |
| 30° | 2776.7 | 2810.5 | 2851.1 | 2930.0 | 3002.1 | 3365.0 | 4539.2 | 6871.9 | 11217.3 | 13236.8 | 14544.0 |
| 32.5° | 2003.7 | 2048.7 | 2105.1 | 2213.3 | 2384.6 | 2846.6 | 3971.3 | 6567.7 | 11550.9 | 13712.3 | 14886.6 |
| 35° | 1832.4 | 1884.2 | 1938.3 | 2062.3 | 2224.5 | 2652.8 | 3745.9 | 6441.5 | 12098.6 | 14483.1 | 15501.9 |
| 37.5° | 1778.3 | 1836.9 | 1884.2 | 1974.4 | 2105.1 | 2513.0 | 3540.8 | 6355.8 | 12659.8 | 15299.0 | 16326.8 |
| 40° | 1740.0 | 1807.6 | 1845.9 | 1918.0 | 2008.2 | 2384.6 | 3358.2 | 6288.2 | 13203.0 | 16045.0 | 16989.4 |
| 42.5° | 1706.2 | 1776.0 | 1825.6 | 1877.4 | 1951.8 | 2269.6 | 3195.9 | 6220.6 | 13674.0 | 16768.5 | 17649.8 |
| 45° | 1665.6 | 1753.5 | 1816.6 | 1857.2 | 1922.5 | 2172.7 | 3072.0 | 6166.5 | 14210.4 | 17410.9 | 18316.9 |
| 47.5° | 1631.8 | 1728.7 | 1807.6 | 1854.9 | 1879.7 | 2105.1 | 2972.8 | 6240.9 | 14855.0 | 18082.5 | 18936.7 |
| 50° | 1634.0 | 1726.4 | 1825.6 | 1900.0 | 1834.6 | 2048.7 | 2912.0 | 6536.1 | 15693.4 | 18880.4 | 19425.8 |
| 52.5° | 1706.2 | 1818.8 | 1897.7 | 1915.8 | 1771.5 | 1981.1 | 2880.4 | 7052.2 | 16685.1 | 19585.8 | 19919.4 |
| 55° | 1787.3 | 1904.5 | 1990.1 | 1978.9 | 1737.7 | 1895.5 | 2873.6 | 7602.2 | 17771.5 | 20408.5 | 20561.7 |
| 57.5° | 1758.0 | 1929.3 | 2060.0 | 2001.4 | 1740.0 | 1812.1 | 2844.3 | 8046.2 | 18679.8 | 21023.7 | 21197.3 |
| 58° | 1749.0 | 1920.3 | 2069.0 | 1996.9 | 1733.2 | 1787.3 | 2837.6 | 8084.5 | 18806.0 | 21066.6 | 21287.4 |
| 60° | 1661.1 | 1841.4 | 2062.3 | 1963.1 | 1694.9 | 1719.7 | 2763.2 | 8208.5 | 18772.2 | 20845.7 | 21341.5 |
| 62.5° | 1501.1 | 1649.8 | 1906.7 | 1798.6 | 1577.7 | 1629.5 | 2596.4 | 8055.2 | 17857.1 | 19781.9 | 20550.4 |
| 65° | 1320.7 | 1431.2 | 1602.5 | 1582.2 | 1410.9 | 1537.1 | 2368.8 | 7448.9 | 16024.7 | 18055.5 | 18864.6 |
| 67.5° | 1185.5 | 1275.7 | 1383.9 | 1354.6 | 1268.9 | 1413.2 | 2123.1 | 6423.4 | 13969.3 | 15981.9 | 17000.7 |
| 70° | 1048.0 | 1117.9 | 1172.0 | 1151.7 | 1124.7 | 1291.4 | 1904.5 | 5213.1 | 11999.4 | 14012.1 | 14999.3 |
| 72.5° | 908.3 | 973.7 | 1018.7 | 989.4 | 973.7 | 1163.0 | 1726.4 | 4045.6 | 9477.4 | 11559.9 | 12828.8 |
| 75° | 759.5 | 824.9 | 856.5 | 822.6 | 813.6 | 1025.5 | 1462.7 | 3022.4 | 7110.8 | 8911.7 | 10007.0 |
| 77.5° | 588.3 | 658.1 | 698.7 | 687.4 | 691.9 | 842.9 | 1181.0 | 2069.0 | 5084.6 | 6074.1 | 7228.0 |
| 80° | 412.5 | 489.1 | 516.1 | 504.9 | 536.4 | 642.3 | 833.9 | 1314.0 | 3507.0 | 3942.0 | 4755.6 |
| 82.5° | 254.7 | 326.8 | 331.3 | 342.6 | 365.1 | 475.6 | 628.8 | 800.1 | 2202.0 | 2276.4 | 2866.9 |
| 85° | 128.5 | 155.5 | 166.8 | 184.8 | 205.1 | 290.7 | 358.4 | 495.8 | 1417.7 | 1072.8 | 1602.5 |
| 87.5° | 42.8 | 45.1 | 54.1 | 67.6 | 83.4 | 119.5 | 153.3 | 202.8 | 351.6 | 193.8 | 495.8 |
| 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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| 27.5° | 14988.0 | 14183.4 | 13622.2 | 13574.8 | 13459.9 | 14724.3 | 15190.8 | 13976.0 | 12786.0 | 12465.9 |
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| 52.5° | 20005.0 | 22231.8 | 24704.3 | 26223.3 | 26000.2 | 22856.1 | 20158.3 | 21001.2 | 19707.5 | 19135.0 |
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| 58° | 21188.3 | 23070.2 | 25303.8 | 26556.9 | 26196.3 | 23376.7 | 20915.6 | 21510.6 | 20820.9 | 20440.0 |
| 60° | 21136.4 | 22441.4 | 24372.9 | 25488.6 | 25109.9 | 22542.8 | 20829.9 | 21341.5 | 20478.3 | 20156.0 |
| 62.5° | 20656.4 | 21350.6 | 22766.0 | 23577.3 | 23469.2 | 21240.1 | 20478.3 | 20703.7 | 19434.8 | 19123.8 |
| 65° | 20025.3 | 19863.0 | 20708.2 | 21282.9 | 21364.1 | 20264.2 | 20129.0 | 19324.4 | 18096.0 | 17656.5 |
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| 75° | 12623.7 | 9247.5 | 8064.2 | 8519.5 | 8343.7 | 9637.4 | 13178.2 | 9396.2 | 8208.5 | 7953.8 |
| 77.5° | 9801.9 | 6700.6 | 6013.2 | 5950.1 | 6080.8 | 7171.7 | 9666.7 | 6344.5 | 5411.5 | 5237.9 |
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| 82.5° | 4144.8 | 3342.4 | 3984.8 | 3678.3 | 3493.4 | 3040.4 | 3849.5 | 2650.5 | 2249.3 | 2172.7 |
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| 87.5° | 1275.7 | 856.5 | 628.8 | 387.7 | 613.0 | 707.7 | 1401.9 | 166.8 | 128.5 | 133.0 |
| 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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