

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: P457482

Luminaire Tested: **GLAN-SA8D-750-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-750-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53846 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

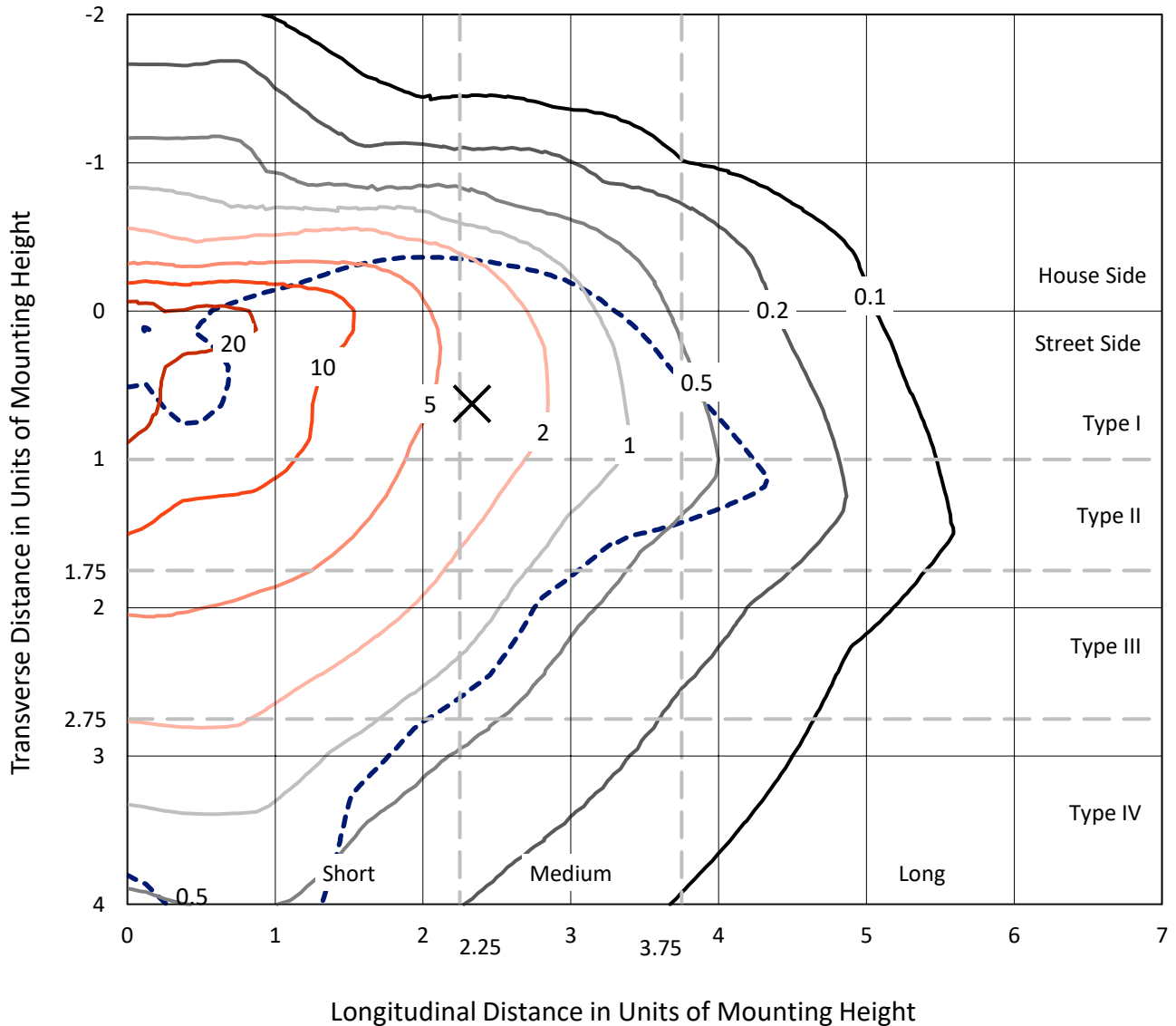
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

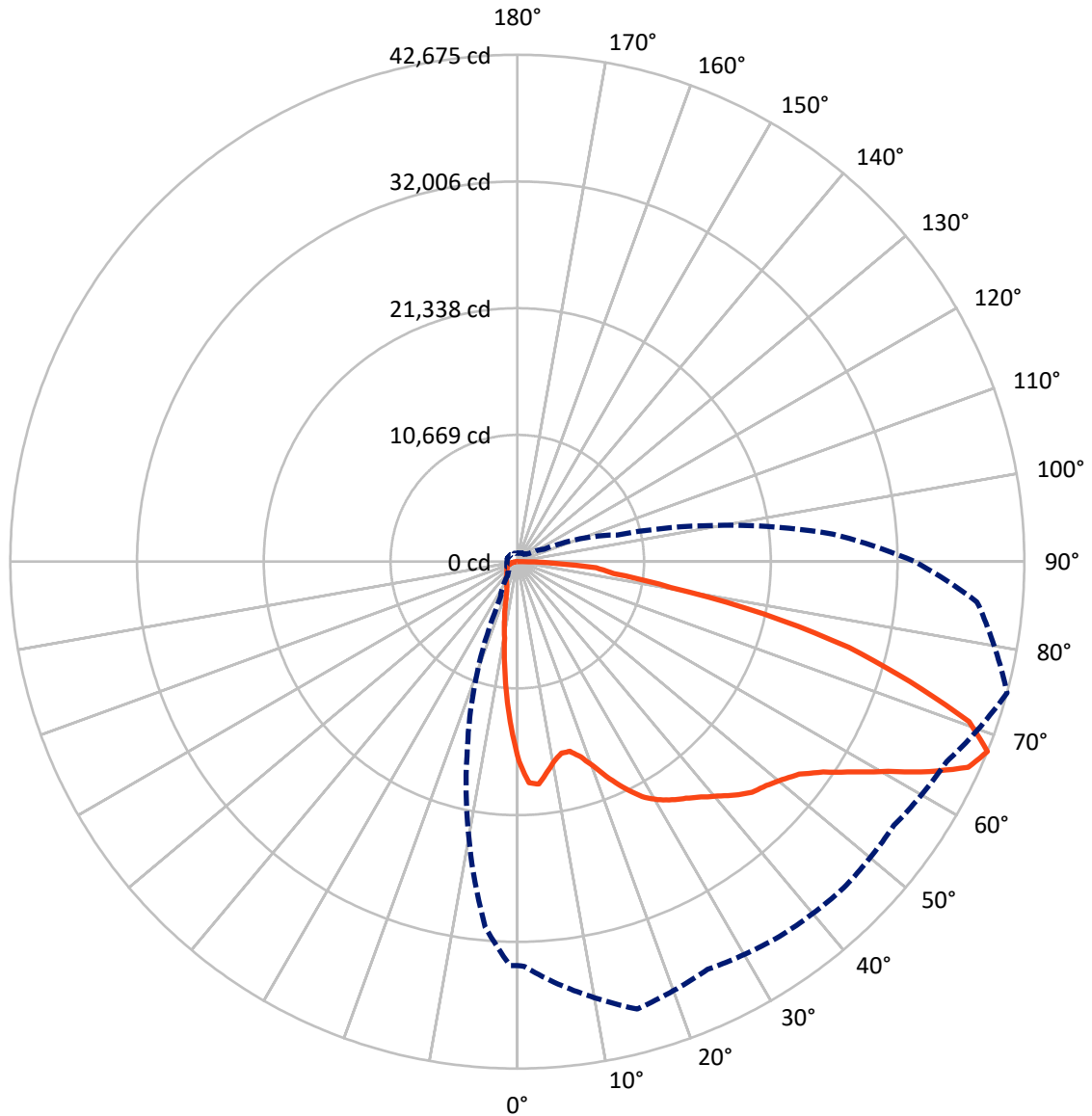
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.2 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GLAN-SA8D-750-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GLAN-SA8D-750-U-SLL

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9101.1 | 0.0 | 9101.1 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 44744.9 | 0.0 | 44744.9 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 53846.0 | 0.0 | 53846.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1276.0 | 2.4 |
| 10°-20° | 2661.1 | 4.9 |
| 20°-30° | 3829.3 | 7.1 |
| 30°-40° | 5515.3 | 10.2 |
| 40°-50° | 7747.4 | 14.4 |
| 50°-60° | 10804.9 | 20.1 |
| 60°-70° | 12846.4 | 23.9 |
| 70°-80° | 7565.8 | 14.1 |
| 80°-90° | 1599.9 | 3.0 |
| 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° | 53846.0 | 100.0 |
| 0°-180° | 53846.0 | 100.0 |

Coefficient of Utilization



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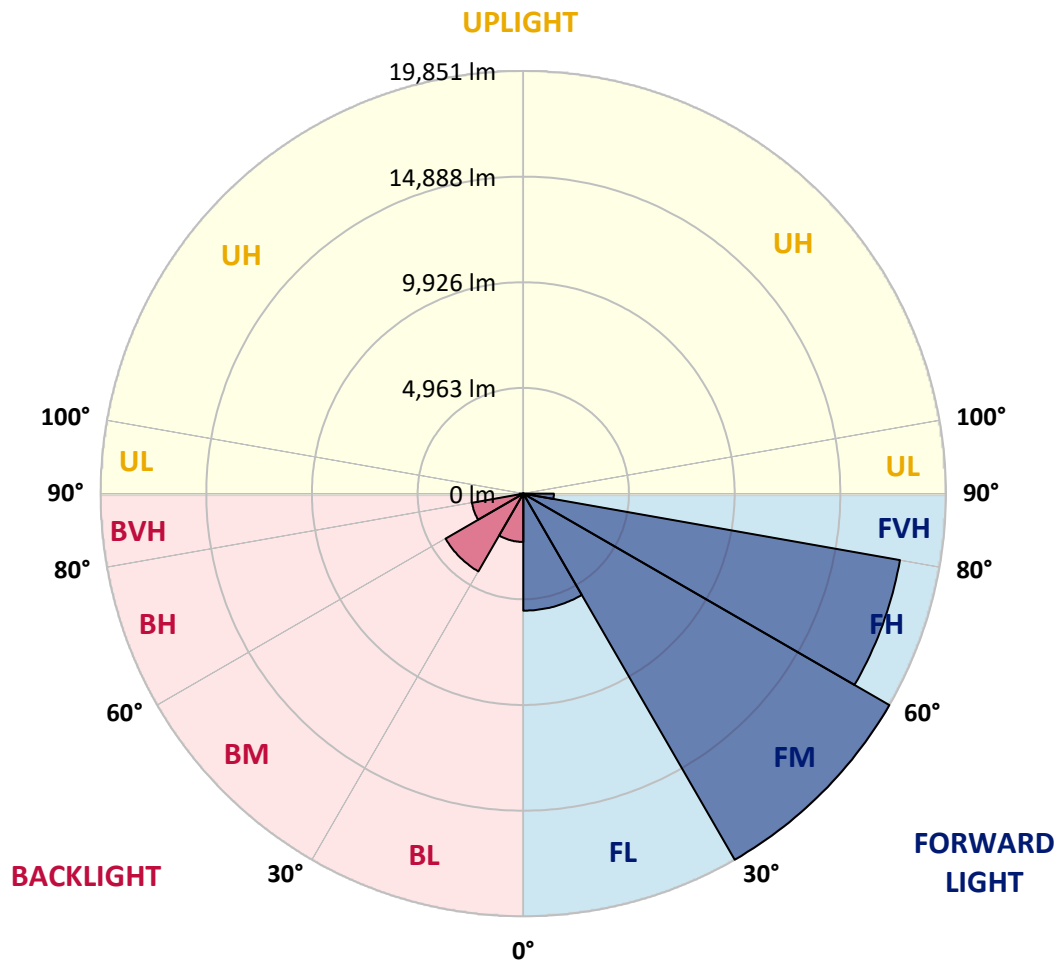
CATALOG NUMBER: GLAN-SA8D-750-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5496.2 | 10.2 | | | |
| FM | (30°-60°) | 19851.0 | 36.9 | | | |
| FH | (60°-80°) | 17963.2 | 33.4 | | | G5 |
| FVH | (80°-90°) | 1434.4 | 2.7 | | | G5 |
| BL | (0°-30°) | 2270.1 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 4216.6 | 7.8 | B3/5000 | | |
| BH | (60°-80°) | 2448.9 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 165.5 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 |
| 2.5° | 18138.3 | 18162.5 | 18317.9 | 18770.2 | 19081.0 | 19194.9 | 19274.4 | 19125.9 | 18980.9 | 18628.7 | 18096.9 |
| 5° | 18083.1 | 18224.7 | 18628.7 | 19643.8 | 20444.9 | 20790.2 | 20893.8 | 20448.4 | 19712.9 | 18808.2 | 17720.5 |
| 7.5° | 17026.5 | 17216.4 | 17837.9 | 19540.2 | 20952.5 | 21760.5 | 21653.4 | 20848.9 | 19523.0 | 17910.4 | 16391.1 |
| 10° | 15773.1 | 15983.7 | 16733.0 | 18790.9 | 20610.6 | 21722.5 | 21722.5 | 20741.9 | 18980.9 | 17064.5 | 15313.8 |
| 12.5° | 14778.6 | 14999.6 | 15855.9 | 18020.9 | 19899.3 | 20952.5 | 21128.6 | 20286.1 | 18590.7 | 16529.3 | 14606.0 |
| 15° | 14450.6 | 14664.7 | 15586.6 | 17554.8 | 19146.6 | 19788.8 | 19847.5 | 19571.3 | 18400.8 | 16567.2 | 14574.9 |
| 17.5° | 14858.0 | 15134.3 | 16066.6 | 17692.9 | 18456.0 | 18494.0 | 18538.9 | 18756.4 | 18421.5 | 17261.3 | 15203.3 |
| 20° | 16035.5 | 16332.4 | 17306.2 | 18138.3 | 17851.7 | 17458.1 | 17482.3 | 18041.7 | 18666.6 | 18407.7 | 16705.4 |
| 22.5° | 17734.3 | 17993.3 | 18991.2 | 18922.2 | 17596.2 | 16784.8 | 16615.6 | 17396.0 | 19029.2 | 19837.2 | 18304.1 |
| 25° | 19567.9 | 19871.7 | 21018.1 | 20085.8 | 17668.7 | 16384.2 | 16277.2 | 17016.1 | 19405.6 | 21173.5 | 20151.4 |
| 27.5° | 21667.3 | 21964.2 | 22868.9 | 21259.8 | 18048.6 | 16353.2 | 16225.4 | 16981.6 | 19744.0 | 22409.6 | 21915.9 |
| 30° | 23228.0 | 23500.8 | 24115.4 | 22247.3 | 18514.7 | 16560.3 | 16401.5 | 17254.4 | 20034.0 | 23255.6 | 23635.4 |
| 32.5° | 24453.8 | 24736.9 | 25071.9 | 22862.0 | 19129.3 | 16936.7 | 16643.2 | 17751.6 | 20413.8 | 23901.3 | 24909.6 |
| 35° | 25731.4 | 26066.3 | 26042.1 | 23407.5 | 19702.5 | 17371.8 | 17085.2 | 18469.8 | 21011.2 | 24464.1 | 26525.5 |
| 37.5° | 27350.8 | 27485.5 | 27312.8 | 23897.9 | 20389.7 | 18155.6 | 17996.8 | 19536.8 | 21860.6 | 25144.4 | 28414.3 |
| 40° | 28994.4 | 29263.7 | 28376.3 | 24491.8 | 21225.3 | 19630.0 | 19612.7 | 21114.8 | 22868.9 | 25942.0 | 30244.4 |
| 42.5° | 30403.2 | 30631.1 | 29370.8 | 25009.7 | 22237.0 | 21429.0 | 21560.2 | 23231.4 | 24191.4 | 26867.4 | 31715.3 |
| 45° | 31463.3 | 31667.0 | 30289.3 | 25510.4 | 23569.8 | 23507.7 | 24281.1 | 25500.0 | 25859.1 | 27699.6 | 32578.6 |
| 47.5° | 32364.5 | 32561.3 | 30928.1 | 26270.0 | 25216.9 | 25990.3 | 27337.0 | 27865.3 | 27285.2 | 28176.1 | 33545.4 |
| 50° | 33124.1 | 33182.8 | 31366.6 | 27174.7 | 27261.0 | 29032.4 | 30337.6 | 30679.4 | 28694.0 | 28859.7 | 34384.5 |
| 52.5° | 33914.9 | 33838.9 | 32122.8 | 28314.2 | 29470.9 | 31919.1 | 32868.6 | 33224.3 | 30044.1 | 29702.3 | 35606.8 |
| 55° | 35686.2 | 35758.7 | 33818.2 | 29750.6 | 31705.0 | 34753.9 | 36003.9 | 35662.1 | 31539.2 | 31252.6 | 37160.6 |
| 57.5° | 37827.0 | 37764.9 | 36204.2 | 31998.5 | 33980.5 | 37392.0 | 38324.3 | 37775.3 | 33535.0 | 33383.1 | 38735.2 |
| 60° | 38659.2 | 38742.1 | 38200.0 | 34415.5 | 36224.9 | 39702.0 | 40655.0 | 39802.1 | 35927.9 | 35858.9 | 39923.0 |
| 62.5° | 37823.6 | 38289.7 | 38655.8 | 36566.7 | 38137.8 | 41400.9 | 42347.0 | 41373.2 | 38424.4 | 38925.1 | 40755.2 |
| 65° | 36159.3 | 36259.4 | 37505.9 | 38389.9 | 39059.8 | 41680.5 | 42174.3 | 41656.4 | 40510.0 | 41718.5 | 40717.2 |
| 67.5° | 33997.7 | 34084.1 | 35544.7 | 38987.2 | 37871.9 | 38503.8 | 38849.1 | 38697.2 | 39864.3 | 42675.0 | 38842.2 |
| 70° | 31939.8 | 31870.7 | 33414.2 | 37464.5 | 32968.8 | 32008.8 | 32295.4 | 31818.9 | 34398.3 | 40337.3 | 35164.8 |
| 72.5° | 27934.4 | 28183.0 | 29840.4 | 33231.2 | 26104.3 | 24543.6 | 25168.5 | 23935.8 | 26456.5 | 34546.7 | 28542.1 |
| 75° | 21881.3 | 21940.0 | 24705.8 | 27889.5 | 19692.2 | 17230.2 | 18076.2 | 17561.7 | 20265.4 | 28818.3 | 19709.4 |
| 77.5° | 15151.5 | 15020.3 | 17993.3 | 21301.2 | 14043.1 | 12613.6 | 12627.4 | 12382.3 | 14150.2 | 21218.4 | 13390.5 |
| 80° | 9623.4 | 9423.1 | 11263.5 | 13159.2 | 9651.0 | 10324.3 | 9985.9 | 9975.6 | 9212.5 | 13090.1 | 8097.2 |
| 82.5° | 5200.1 | 5421.1 | 7116.5 | 8249.1 | 6923.2 | 7979.8 | 7313.3 | 7099.3 | 6322.3 | 8193.8 | 5179.4 |
| 85° | 2368.7 | 2575.9 | 3794.8 | 5611.0 | 5258.8 | 5317.5 | 3553.1 | 4191.9 | 5231.2 | 6653.8 | 2765.8 |
| 87.5° | 231.3 | 297.0 | 783.8 | 2648.4 | 1795.5 | 1415.7 | 528.3 | 1018.6 | 1315.6 | 2365.3 | 221.0 |
| 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-SA8D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 |
| 2.5° | 17879.4 | 17699.8 | 17088.6 | 16584.5 | 16049.3 | 15641.9 | 15110.1 | 14754.4 | 14509.3 | 14139.8 | 14094.9 |
| 5° | 17057.6 | 16619.0 | 15555.5 | 14471.3 | 13535.6 | 12831.2 | 12116.4 | 11460.3 | 11073.6 | 10952.8 | 10797.4 |
| 7.5° | 15672.9 | 14934.0 | 13566.6 | 12323.6 | 11249.7 | 10200.0 | 9392.0 | 8818.8 | 8435.6 | 8211.1 | 7941.8 |
| 10° | 14533.5 | 13677.1 | 12012.8 | 10490.1 | 9606.1 | 8953.5 | 8242.2 | 7627.6 | 7154.5 | 6750.5 | 6529.5 |
| 12.5° | 13766.9 | 12800.1 | 10928.6 | 9692.4 | 9008.7 | 8314.7 | 7482.5 | 6791.9 | 6094.5 | 5635.2 | 5438.4 |
| 15° | 13535.6 | 12513.5 | 10593.6 | 9295.3 | 8314.7 | 7406.6 | 6474.3 | 5573.1 | 4882.5 | 4447.4 | 4302.4 |
| 17.5° | 14101.8 | 12865.7 | 10590.2 | 8767.0 | 7499.8 | 6415.6 | 5220.9 | 4374.9 | 3667.0 | 3342.5 | 3238.9 |
| 20° | 15158.4 | 13542.5 | 10621.3 | 8245.6 | 6615.8 | 5089.6 | 3798.2 | 3104.2 | 2765.8 | 2627.7 | 2575.9 |
| 22.5° | 16632.9 | 14574.9 | 10714.5 | 7731.2 | 5649.0 | 3908.7 | 2845.2 | 2493.0 | 2372.2 | 2348.0 | 2337.6 |
| 25° | 18449.1 | 15852.5 | 11028.7 | 7268.5 | 4834.1 | 2983.3 | 2379.1 | 2220.2 | 2151.2 | 2127.0 | 2123.6 |
| 27.5° | 20120.3 | 17503.0 | 11408.5 | 6871.4 | 4046.9 | 2572.4 | 2151.2 | 2016.5 | 1947.5 | 1944.0 | 1950.9 |
| 30° | 21629.3 | 18884.2 | 11726.2 | 6425.9 | 3449.5 | 2285.9 | 2002.7 | 1868.0 | 1802.4 | 1799.0 | 1819.7 |
| 32.5° | 22934.5 | 20020.2 | 11961.0 | 5987.4 | 3118.0 | 2109.8 | 1868.0 | 1723.0 | 1667.8 | 1657.4 | 1667.8 |
| 35° | 24329.5 | 21152.8 | 11854.0 | 5645.6 | 2928.1 | 1964.7 | 1767.9 | 1626.3 | 1560.7 | 1529.7 | 1529.7 |
| 37.5° | 25921.3 | 22319.9 | 11671.0 | 5362.4 | 2841.8 | 1843.9 | 1681.6 | 1543.5 | 1477.9 | 1446.8 | 1443.3 |
| 40° | 27658.1 | 23487.0 | 11418.9 | 5110.4 | 2755.5 | 1771.4 | 1622.9 | 1477.9 | 1398.4 | 1367.4 | 1360.5 |
| 42.5° | 29191.2 | 24484.9 | 11211.7 | 4944.6 | 2613.9 | 1785.2 | 1571.1 | 1429.5 | 1329.4 | 1287.9 | 1284.5 |
| 45° | 30524.1 | 25489.7 | 11173.7 | 4847.9 | 2496.5 | 1764.5 | 1557.3 | 1391.5 | 1274.1 | 1229.2 | 1222.3 |
| 47.5° | 31566.9 | 26535.9 | 11391.3 | 4792.7 | 2368.7 | 1654.0 | 1647.1 | 1367.4 | 1225.8 | 1177.5 | 1170.5 |
| 50° | 32837.5 | 28020.7 | 11888.5 | 4678.7 | 2251.3 | 1550.4 | 1740.3 | 1363.9 | 1187.8 | 1125.7 | 1108.4 |
| 52.5° | 34529.5 | 29954.3 | 12561.8 | 4475.0 | 2082.1 | 1453.7 | 1660.9 | 1363.9 | 1142.9 | 1080.8 | 1060.1 |
| 55° | 37088.1 | 32419.7 | 13221.3 | 4188.4 | 1843.9 | 1325.9 | 1498.6 | 1322.5 | 1077.3 | 1022.1 | 1008.3 |
| 57.5° | 38783.5 | 34222.2 | 13642.6 | 3791.3 | 1546.9 | 1232.7 | 1291.4 | 1256.9 | 1011.7 | 953.0 | 953.0 |
| 60° | 38869.8 | 34705.6 | 13442.3 | 3290.7 | 1360.5 | 1146.4 | 1122.2 | 1267.2 | 953.0 | 890.9 | 884.0 |
| 62.5° | 37875.4 | 33521.2 | 12399.5 | 2841.8 | 1260.3 | 1053.1 | 1015.2 | 1111.8 | 894.3 | 832.2 | 821.8 |
| 65° | 36321.6 | 30499.9 | 10590.2 | 2627.7 | 1205.1 | 970.3 | 915.0 | 911.6 | 832.2 | 773.5 | 759.6 |
| 67.5° | 33466.0 | 26653.3 | 8701.4 | 2503.4 | 1177.5 | 877.0 | 825.3 | 808.0 | 759.6 | 711.3 | 704.4 |
| 70° | 29256.8 | 22323.3 | 6978.4 | 2451.6 | 1163.6 | 780.4 | 738.9 | 718.2 | 676.8 | 638.8 | 635.3 |
| 72.5° | 22761.8 | 18107.3 | 5759.5 | 2417.1 | 1156.7 | 690.6 | 645.7 | 618.1 | 593.9 | 559.4 | 559.4 |
| 75° | 16349.7 | 13321.5 | 4395.6 | 2178.8 | 1070.4 | 593.9 | 545.6 | 528.3 | 493.8 | 466.1 | 473.1 |
| 77.5° | 10307.1 | 8970.8 | 2893.6 | 1602.2 | 828.7 | 476.5 | 435.1 | 424.7 | 397.1 | 359.1 | 383.3 |
| 80° | 6961.1 | 6308.5 | 1688.5 | 1008.3 | 521.4 | 348.7 | 334.9 | 331.5 | 300.4 | 259.0 | 262.4 |
| 82.5° | 4737.4 | 4647.7 | 877.0 | 573.2 | 300.4 | 203.7 | 196.8 | 203.7 | 169.2 | 138.1 | 138.1 |
| 85° | 1850.8 | 2527.6 | 414.4 | 224.4 | 96.7 | 31.1 | 44.9 | 48.3 | 27.6 | 13.8 | 17.3 |
| 87.5° | 34.5 | 259.0 | 10.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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-SA8D-750-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 |
| 2.5° | 14025.9 | 13994.8 | 14046.6 | 13825.6 | 13870.5 | 13953.4 | 13994.8 | 14019.0 | 14360.8 | 14281.4 | 14498.9 |
| 5° | 10942.4 | 10911.3 | 11111.6 | 11139.2 | 11242.8 | 11222.1 | 11322.2 | 11346.4 | 11470.7 | 11515.6 | 11819.4 |
| 7.5° | 7959.0 | 8093.7 | 8321.6 | 8439.0 | 8615.1 | 8670.4 | 8618.6 | 8746.3 | 8487.3 | 8673.8 | 8729.1 |
| 10° | 6394.9 | 6232.6 | 6135.9 | 6405.2 | 6439.7 | 6695.3 | 6591.7 | 6508.8 | 6660.7 | 6667.6 | 6812.7 |
| 12.5° | 5324.4 | 4975.7 | 4744.4 | 4820.3 | 4903.2 | 5013.7 | 5030.9 | 5196.7 | 5307.2 | 5410.8 | 5497.1 |
| 15° | 4174.6 | 4053.8 | 3843.1 | 3739.5 | 3856.9 | 3901.8 | 4008.9 | 4147.0 | 4264.4 | 4295.5 | 4412.9 |
| 17.5° | 3204.3 | 3225.1 | 3190.5 | 3128.4 | 3200.9 | 3235.4 | 3242.3 | 3245.8 | 3276.8 | 3256.1 | 3428.8 |
| 20° | 2579.4 | 2651.9 | 2738.2 | 2752.0 | 2776.2 | 2793.4 | 2762.4 | 2645.0 | 2648.4 | 2720.9 | 2776.2 |
| 22.5° | 2334.2 | 2348.0 | 2444.7 | 2475.8 | 2551.7 | 2520.7 | 2430.9 | 2375.6 | 2368.7 | 2386.0 | 2413.6 |
| 25° | 2140.8 | 2161.5 | 2230.6 | 2278.9 | 2337.6 | 2282.4 | 2216.8 | 2165.0 | 2158.1 | 2175.4 | 2203.0 |
| 27.5° | 1968.2 | 1999.3 | 2061.4 | 2109.8 | 2165.0 | 2113.2 | 2051.1 | 2006.2 | 2002.7 | 1999.3 | 2016.5 |
| 30° | 1830.1 | 1864.6 | 1909.5 | 1964.7 | 2002.7 | 1957.8 | 1899.1 | 1875.0 | 1871.5 | 1864.6 | 1871.5 |
| 32.5° | 1691.9 | 1747.2 | 1792.1 | 1819.7 | 1857.7 | 1823.2 | 1778.3 | 1764.5 | 1740.3 | 1719.6 | 1709.2 |
| 35° | 1536.6 | 1595.3 | 1664.3 | 1698.9 | 1736.8 | 1702.3 | 1671.2 | 1612.5 | 1571.1 | 1567.6 | 1574.5 |
| 37.5° | 1446.8 | 1471.0 | 1526.2 | 1584.9 | 1622.9 | 1605.6 | 1546.9 | 1488.2 | 1477.9 | 1477.9 | 1484.8 |
| 40° | 1367.4 | 1377.7 | 1401.9 | 1477.9 | 1546.9 | 1495.1 | 1422.6 | 1405.4 | 1405.4 | 1401.9 | 1405.4 |
| 42.5° | 1287.9 | 1298.3 | 1298.3 | 1357.0 | 1467.5 | 1384.6 | 1329.4 | 1329.4 | 1329.4 | 1332.8 | 1343.2 |
| 45° | 1215.4 | 1218.9 | 1215.4 | 1256.9 | 1360.5 | 1291.4 | 1253.4 | 1263.8 | 1270.7 | 1277.6 | 1284.5 |
| 47.5° | 1153.3 | 1156.7 | 1153.3 | 1187.8 | 1239.6 | 1212.0 | 1191.3 | 1205.1 | 1218.9 | 1229.2 | 1236.2 |
| 50° | 1098.0 | 1094.6 | 1101.5 | 1122.2 | 1146.4 | 1153.3 | 1139.5 | 1160.2 | 1167.1 | 1180.9 | 1198.2 |
| 52.5° | 1049.7 | 1046.2 | 1053.1 | 1063.5 | 1098.0 | 1098.0 | 1098.0 | 1115.3 | 1129.1 | 1142.9 | 1167.1 |
| 55° | 994.4 | 997.9 | 1008.3 | 1022.1 | 1067.0 | 1060.1 | 1063.5 | 1077.3 | 1091.1 | 1111.8 | 1125.7 |
| 57.5° | 942.7 | 949.6 | 963.4 | 984.1 | 1029.0 | 1025.5 | 1029.0 | 1035.9 | 1053.1 | 1063.5 | 1077.3 |
| 60° | 884.0 | 897.8 | 915.0 | 928.8 | 973.7 | 970.3 | 987.5 | 1001.4 | 1011.7 | 1011.7 | 1018.6 |
| 62.5° | 825.3 | 846.0 | 863.2 | 873.6 | 921.9 | 925.4 | 949.6 | 959.9 | 966.8 | 959.9 | 970.3 |
| 65° | 766.6 | 797.6 | 804.5 | 818.3 | 866.7 | 870.1 | 897.8 | 921.9 | 915.0 | 908.1 | 925.4 |
| 67.5° | 707.9 | 745.8 | 742.4 | 759.6 | 808.0 | 814.9 | 839.1 | 880.5 | 866.7 | 859.8 | 873.6 |
| 70° | 642.2 | 669.9 | 673.3 | 683.7 | 749.3 | 738.9 | 776.9 | 814.9 | 804.5 | 808.0 | 808.0 |
| 72.5° | 569.7 | 593.9 | 593.9 | 614.6 | 683.7 | 666.4 | 697.5 | 738.9 | 738.9 | 735.5 | 735.5 |
| 75° | 483.4 | 497.2 | 511.0 | 542.1 | 614.6 | 593.9 | 614.6 | 652.6 | 659.5 | 652.6 | 652.6 |
| 77.5° | 390.2 | 410.9 | 417.8 | 459.2 | 511.0 | 507.6 | 528.3 | 545.6 | 559.4 | 552.5 | 552.5 |
| 80° | 276.2 | 297.0 | 324.6 | 369.5 | 400.5 | 410.9 | 421.3 | 435.1 | 442.0 | 442.0 | 448.9 |
| 82.5° | 155.4 | 186.5 | 210.6 | 255.5 | 269.3 | 321.1 | 317.7 | 328.0 | 317.7 | 279.7 | 310.8 |
| 85° | 34.5 | 65.6 | 93.2 | 117.4 | 134.7 | 186.5 | 196.8 | 221.0 | 183.0 | 169.2 | 169.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.6 | 55.2 | 76.0 | 65.6 | 55.2 | 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 | 16822.8 |
| 2.5° | 14681.9 | 14982.3 | 15344.9 | 15969.9 | 16408.4 | 16881.5 | 17358.0 | 17865.6 | 18000.2 | 18138.3 |
| 5° | 11902.3 | 12492.8 | 12813.9 | 13653.0 | 14533.5 | 15652.2 | 16567.2 | 17568.6 | 17986.4 | 18083.1 |
| 7.5° | 9015.6 | 9416.2 | 10258.7 | 11108.1 | 12199.3 | 13373.3 | 14775.2 | 16335.9 | 16822.8 | 17026.5 |
| 10° | 7147.6 | 7693.2 | 8432.1 | 9343.7 | 10300.1 | 11563.9 | 13145.4 | 14968.5 | 15659.1 | 15773.1 |
| 12.5° | 6084.1 | 6691.8 | 7496.4 | 8459.7 | 9364.4 | 10317.4 | 11912.7 | 13794.5 | 14533.5 | 14778.6 |
| 15° | 4865.2 | 5600.7 | 6529.5 | 7544.7 | 8528.8 | 9571.6 | 11187.6 | 13311.1 | 14164.0 | 14450.6 |
| 17.5° | 3822.4 | 4416.3 | 5421.1 | 6522.6 | 7689.7 | 9008.7 | 11035.6 | 13542.5 | 14592.2 | 14858.0 |
| 20° | 2924.6 | 3349.4 | 4195.3 | 5359.0 | 6726.3 | 8452.8 | 11073.6 | 14416.1 | 15672.9 | 16035.5 |
| 22.5° | 2527.6 | 2745.1 | 3259.6 | 4368.0 | 5897.6 | 7969.4 | 11229.0 | 15614.2 | 17130.1 | 17734.3 |
| 25° | 2289.3 | 2403.3 | 2693.3 | 3418.4 | 5106.9 | 7499.8 | 11584.6 | 17226.8 | 19167.3 | 19567.9 |
| 27.5° | 2085.6 | 2168.5 | 2348.0 | 2869.4 | 4388.7 | 7064.7 | 11999.0 | 19015.4 | 21069.9 | 21667.3 |
| 30° | 1892.2 | 2002.7 | 2171.9 | 2548.3 | 3929.5 | 6667.6 | 12520.4 | 20465.6 | 22672.1 | 23228.0 |
| 32.5° | 1743.7 | 1854.2 | 2009.6 | 2323.8 | 3539.3 | 6249.8 | 12831.2 | 21739.8 | 23980.7 | 24453.8 |
| 35° | 1622.9 | 1716.1 | 1878.4 | 2144.3 | 3242.3 | 5932.2 | 12769.0 | 22751.5 | 25248.0 | 25731.4 |
| 37.5° | 1536.6 | 1616.0 | 1778.3 | 1975.1 | 3017.9 | 5600.7 | 12737.9 | 24087.8 | 26791.4 | 27350.8 |
| 40° | 1457.1 | 1540.0 | 1688.5 | 1864.6 | 2793.4 | 5210.5 | 12755.2 | 25413.7 | 28435.0 | 28994.4 |
| 42.5° | 1395.0 | 1488.2 | 1609.1 | 1833.5 | 2562.1 | 4896.3 | 12755.2 | 26567.0 | 29864.6 | 30403.2 |
| 45° | 1343.2 | 1443.3 | 1560.7 | 1830.1 | 2379.1 | 4658.0 | 12668.9 | 27558.0 | 31004.0 | 31463.3 |
| 47.5° | 1298.3 | 1408.8 | 1578.0 | 1767.9 | 2334.2 | 4485.4 | 12592.9 | 28352.2 | 31932.9 | 32364.5 |
| 50° | 1267.2 | 1398.4 | 1678.1 | 1695.4 | 2348.0 | 4433.6 | 12958.9 | 29353.5 | 32751.2 | 33124.1 |
| 52.5° | 1243.1 | 1401.9 | 1674.7 | 1588.4 | 2323.8 | 4468.1 | 13722.0 | 30917.7 | 33887.2 | 33914.9 |
| 55° | 1194.7 | 1398.4 | 1588.4 | 1467.5 | 2223.7 | 4526.8 | 14702.7 | 33189.7 | 35665.5 | 35686.2 |
| 57.5° | 1146.4 | 1360.5 | 1474.4 | 1363.9 | 2020.0 | 4526.8 | 15883.6 | 35340.9 | 37809.8 | 37827.0 |
| 60° | 1098.0 | 1415.7 | 1294.9 | 1274.1 | 1754.1 | 4443.9 | 17130.1 | 36287.0 | 38483.1 | 38659.2 |
| 62.5° | 1049.7 | 1426.1 | 1156.7 | 1194.7 | 1560.7 | 4243.7 | 18058.9 | 35240.8 | 37571.5 | 37823.6 |
| 65° | 994.4 | 1149.8 | 1067.0 | 1111.8 | 1460.6 | 3908.7 | 17765.4 | 33324.4 | 35858.9 | 36159.3 |
| 67.5° | 928.8 | 973.7 | 970.3 | 1025.5 | 1426.1 | 3415.0 | 16218.5 | 30900.4 | 34015.0 | 33997.7 |
| 70° | 849.4 | 873.6 | 884.0 | 942.7 | 1360.5 | 3031.7 | 13514.8 | 27754.8 | 31553.0 | 31939.8 |
| 72.5° | 766.6 | 787.3 | 797.6 | 849.4 | 1294.9 | 2814.2 | 10490.1 | 23421.3 | 27330.1 | 27934.4 |
| 75° | 676.8 | 690.6 | 704.4 | 749.3 | 1225.8 | 2493.0 | 7472.2 | 17879.4 | 20931.8 | 21881.3 |
| 77.5° | 583.5 | 583.5 | 600.8 | 645.7 | 1032.4 | 2058.0 | 5013.7 | 12541.1 | 14181.3 | 15151.5 |
| 80° | 473.1 | 476.5 | 469.6 | 517.9 | 759.6 | 1408.8 | 2848.7 | 8376.9 | 9436.9 | 9623.4 |
| 82.5° | 362.6 | 352.2 | 355.7 | 379.8 | 566.3 | 959.9 | 1519.3 | 5203.6 | 5303.7 | 5200.1 |
| 85° | 227.9 | 227.9 | 221.0 | 248.6 | 362.6 | 500.7 | 828.7 | 3187.1 | 2489.6 | 2368.7 |
| 87.5° | 93.2 | 76.0 | 86.3 | 100.1 | 172.6 | 203.7 | 324.6 | 656.1 | 252.1 | 231.3 |
| 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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