

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: P649101

Luminaire Tested: **GLAN-SA8C-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649101
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-SA8C-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA 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: 38316.1 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

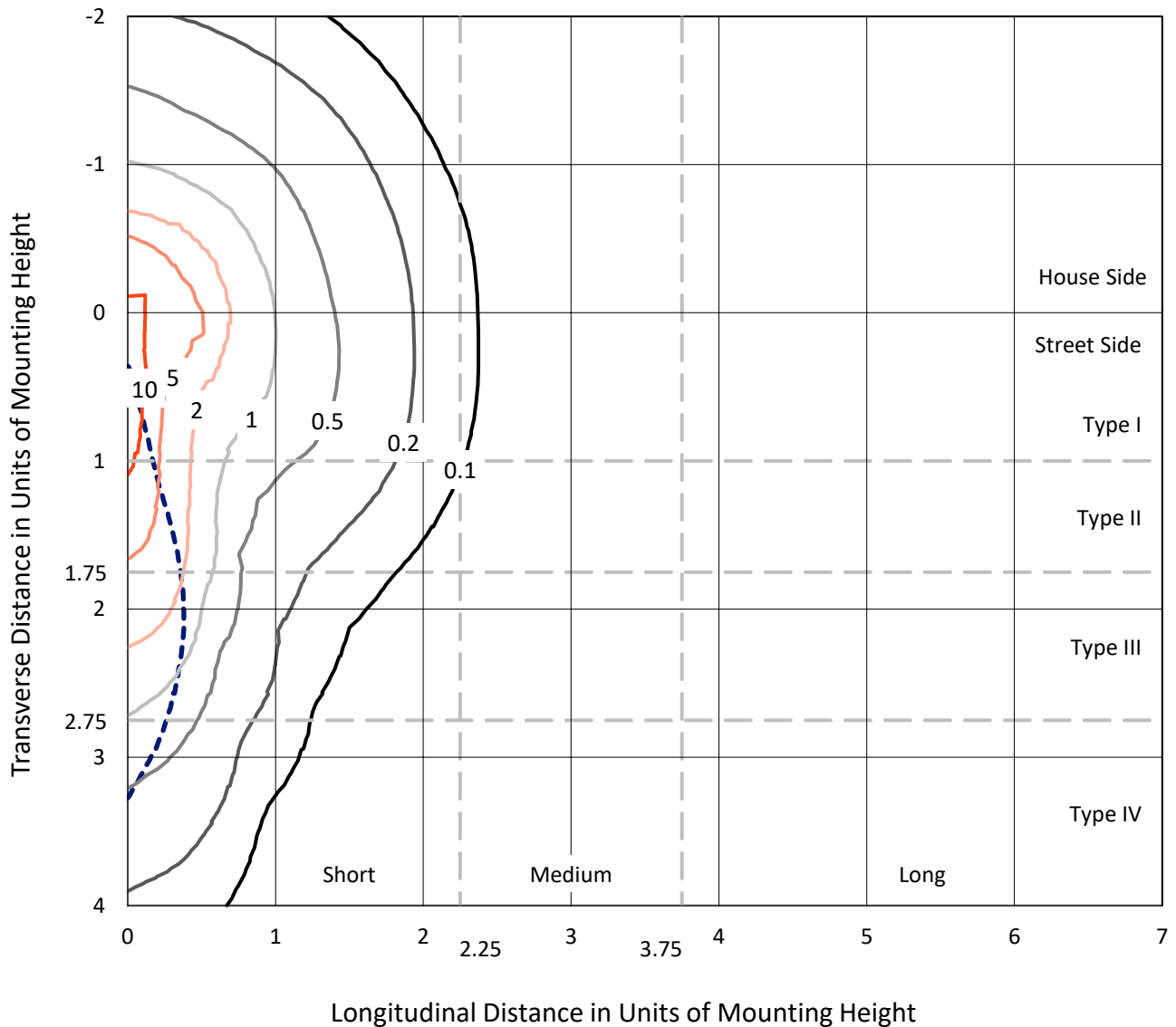
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649101
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Iso-Footcandle Lines of Horizontal Illumination

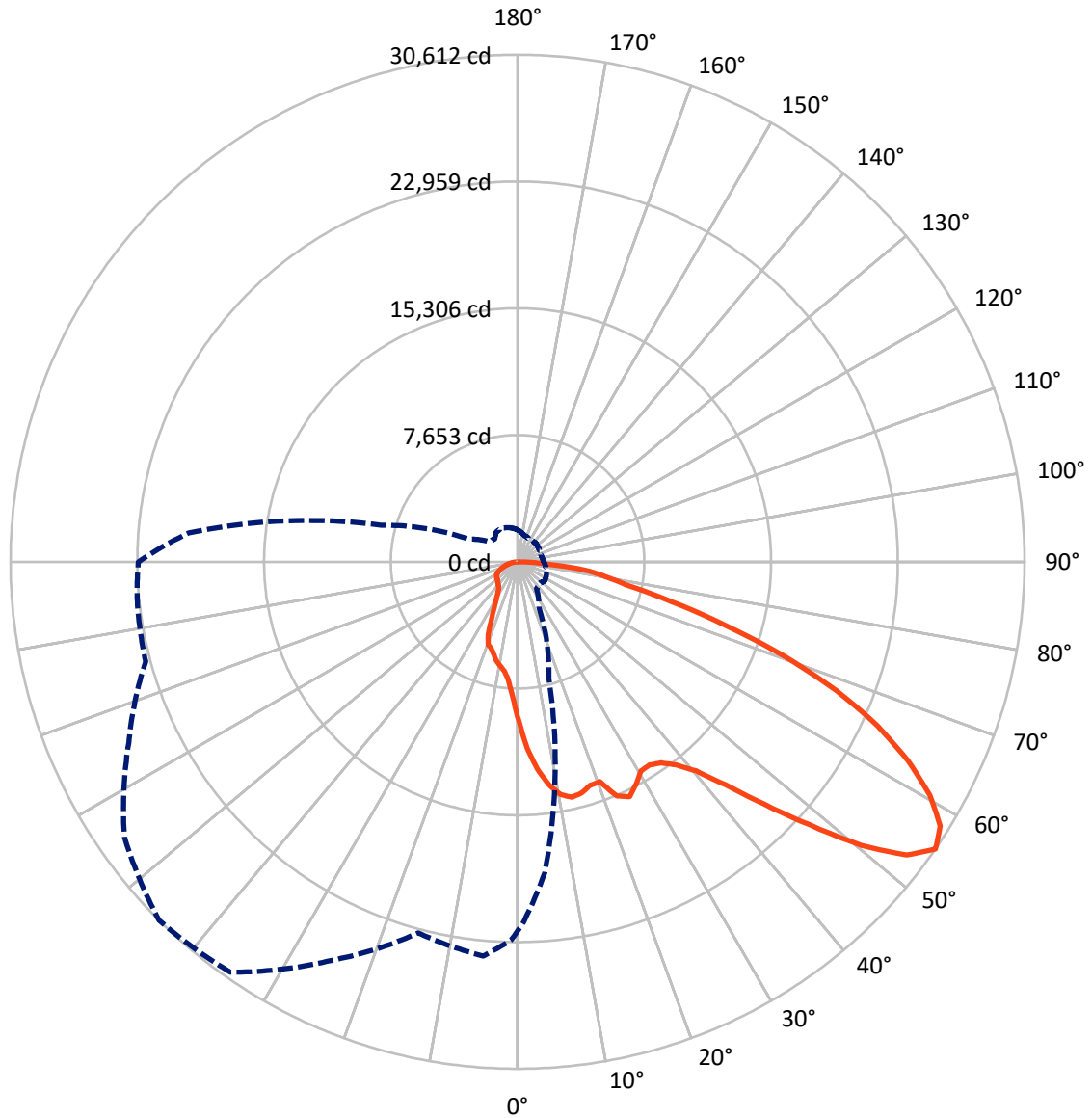
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8381.5 | 0.0 | 8381.5 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 29934.6 | 0.0 | 29934.6 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 38316.1 | 0.0 | 38316.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 815.0 | 2.1 |
| 10°-20° | 2162.1 | 5.6 |
| 20°-30° | 3735.2 | 9.7 |
| 30°-40° | 4340.9 | 11.3 |
| 40°-50° | 6056.4 | 15.8 |
| 50°-60° | 8217.9 | 21.4 |
| 60°-70° | 7818.3 | 20.4 |
| 70°-80° | 4223.7 | 11.0 |
| 80°-90° | 946.6 | 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° | 38316.1 | 100.0 |
| 0°-180° | 38316.1 | 100.0 |

Coefficient of Utilization

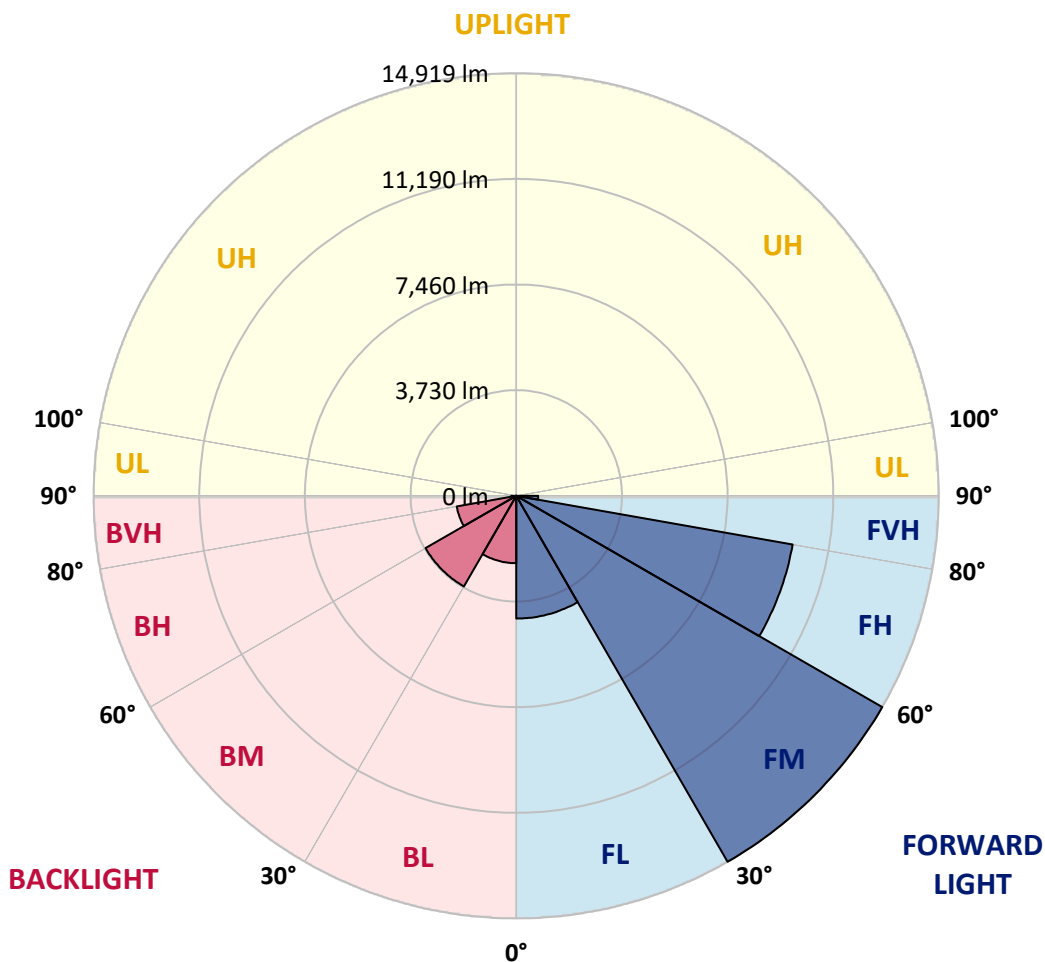


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4333.6 | 11.3 | | | |
| FM (30°-60°) | 14919.5 | 38.9 | | | |
| FH (60°-80°) | 9907.9 | 25.9 | | | G4/12000 |
| FVH (80°-90°) | 773.6 | 2.0 | | | G5 |
| BL (0°-30°) | 2378.7 | 6.2 | B3/2500 | | |
| BM (30°-60°) | 3695.7 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 2134.1 | 5.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 173.0 | 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-G5
 Type IV Short





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 CATALOG NUMBER: GLAN-SA8C-835-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 |
| 2.5° | 10682.6 | 10642.1 | 10528.4 | 10230.1 | 9929.3 | 9623.5 | 9388.3 | 9095.1 | 8789.3 | 8624.9 | 8415.1 |
| 5° | 10829.2 | 10783.7 | 10515.8 | 9843.3 | 9234.2 | 8594.6 | 8084.0 | 7636.5 | 7454.6 | 7186.6 | 6971.8 |
| 7.5° | 10485.4 | 10465.2 | 10063.3 | 9097.7 | 8263.5 | 7426.8 | 6847.9 | 6489.0 | 6162.8 | 6041.5 | 6066.8 |
| 10° | 10172.0 | 10091.1 | 9588.1 | 8326.7 | 7353.5 | 6673.4 | 6258.9 | 5907.5 | 5677.5 | 5616.9 | 5629.5 |
| 12.5° | 9911.6 | 9802.9 | 9208.9 | 7808.5 | 6956.6 | 6413.1 | 5884.8 | 5518.3 | 5308.4 | 5366.6 | 5563.8 |
| 15° | 9858.5 | 9711.9 | 9049.6 | 7631.5 | 6739.2 | 6039.0 | 5460.1 | 5038.0 | 4881.2 | 5007.6 | 5323.6 |
| 17.5° | 10202.3 | 10017.8 | 9322.6 | 7689.6 | 6531.9 | 5657.3 | 4946.9 | 4464.1 | 4332.7 | 4534.9 | 4946.9 |
| 20° | 11307.0 | 11034.0 | 10174.5 | 8025.8 | 6511.7 | 5467.7 | 4648.7 | 4163.3 | 4219.0 | 4603.2 | 5032.9 |
| 22.5° | 13349.4 | 12939.9 | 11665.9 | 8516.2 | 6617.8 | 5419.7 | 4588.0 | 4335.2 | 4641.1 | 4967.2 | 5250.3 |
| 25° | 13753.9 | 13432.8 | 11933.9 | 8627.5 | 6595.1 | 5386.8 | 4759.9 | 4886.3 | 5227.5 | 5389.3 | 5290.7 |
| 27.5° | 13981.4 | 13614.9 | 11916.2 | 8076.4 | 5897.4 | 4886.3 | 4550.1 | 4759.9 | 4845.8 | 4689.2 | 4421.1 |
| 30° | 14512.3 | 14130.6 | 12217.0 | 7497.5 | 4855.9 | 3624.9 | 3177.5 | 3091.5 | 3149.7 | 3180.0 | 3083.9 |
| 32.5° | 15242.8 | 14866.1 | 12783.2 | 7118.3 | 4198.7 | 2998.0 | 2558.1 | 2436.9 | 2409.1 | 2376.2 | 2338.3 |
| 35° | 16188.2 | 15609.3 | 13339.3 | 6875.7 | 3928.2 | 2773.0 | 2368.6 | 2275.0 | 2237.1 | 2191.6 | 2151.2 |
| 37.5° | 17148.8 | 16542.0 | 14042.1 | 6620.3 | 3748.8 | 2616.3 | 2242.2 | 2199.2 | 2133.5 | 2085.4 | 2027.3 |
| 40° | 18170.0 | 17490.0 | 14681.6 | 6397.9 | 3574.3 | 2515.2 | 2151.2 | 2146.1 | 2060.2 | 2004.6 | 1936.3 |
| 42.5° | 19054.8 | 18354.5 | 15252.9 | 6261.4 | 3440.3 | 2409.1 | 2095.5 | 2110.7 | 2022.3 | 1938.9 | 1850.4 |
| 45° | 19757.5 | 19069.9 | 15781.2 | 6261.4 | 3331.7 | 2302.9 | 2085.4 | 2075.3 | 1986.9 | 1883.2 | 1782.1 |
| 47.5° | 20374.3 | 19663.9 | 16296.9 | 6420.7 | 3263.4 | 2214.4 | 2029.8 | 2047.5 | 1956.6 | 1825.1 | 1726.5 |
| 50° | 20852.0 | 20225.1 | 16992.0 | 6668.4 | 3195.2 | 2143.6 | 1959.1 | 2055.1 | 1931.3 | 1794.8 | 1681.0 |
| 52.5° | 21461.2 | 20900.1 | 17828.8 | 7007.1 | 3137.0 | 2065.2 | 1895.9 | 2055.1 | 1928.8 | 1797.3 | 1673.4 |
| 55° | 22305.6 | 21714.0 | 18837.3 | 7287.7 | 3043.5 | 1992.0 | 1840.3 | 1997.0 | 1921.2 | 1784.6 | 1653.2 |
| 57.5° | 22897.0 | 22454.6 | 19550.2 | 7474.8 | 2909.5 | 1898.4 | 1789.7 | 1941.4 | 1888.3 | 1736.6 | 1592.5 |
| 58° | 22924.8 | 22492.6 | 19653.8 | 7517.7 | 2876.7 | 1880.7 | 1777.1 | 1916.1 | 1873.1 | 1716.4 | 1572.3 |
| 60° | 22606.3 | 22234.8 | 19674.0 | 7457.1 | 2689.6 | 1792.2 | 1711.3 | 1812.5 | 1792.2 | 1597.6 | 1463.6 |
| 62.5° | 21448.6 | 21051.7 | 18857.5 | 6964.2 | 2441.9 | 1683.5 | 1610.2 | 1673.4 | 1627.9 | 1430.8 | 1306.9 |
| 65° | 19803.0 | 19072.5 | 17179.1 | 6190.6 | 2264.9 | 1567.3 | 1473.7 | 1478.8 | 1430.8 | 1289.2 | 1180.5 |
| 67.5° | 17611.4 | 16794.9 | 14545.1 | 5217.4 | 2130.9 | 1438.4 | 1311.9 | 1299.3 | 1241.1 | 1150.1 | 1061.7 |
| 70° | 14914.2 | 14355.5 | 11820.1 | 4244.3 | 1981.9 | 1296.8 | 1129.9 | 1122.4 | 1087.0 | 1018.7 | 940.4 |
| 72.5° | 12088.0 | 11377.8 | 9545.1 | 3397.4 | 1799.8 | 1160.2 | 960.6 | 975.8 | 930.2 | 882.2 | 811.4 |
| 75° | 8920.7 | 8455.5 | 7378.8 | 2725.0 | 1554.6 | 1011.2 | 801.3 | 806.4 | 786.1 | 735.6 | 680.0 |
| 77.5° | 5874.7 | 5735.6 | 5278.1 | 1789.7 | 1195.6 | 803.8 | 654.7 | 659.8 | 644.6 | 599.1 | 541.0 |
| 80° | 3953.5 | 3860.0 | 3576.9 | 1152.7 | 798.8 | 581.4 | 505.6 | 510.6 | 508.1 | 460.1 | 381.7 |
| 82.5° | 2436.9 | 2396.4 | 2305.4 | 778.5 | 553.6 | 417.1 | 333.6 | 348.8 | 376.6 | 323.5 | 260.3 |
| 85° | 1150.1 | 1152.7 | 1392.8 | 424.7 | 326.1 | 267.9 | 182.0 | 194.7 | 194.7 | 194.7 | 146.6 |
| 87.5° | 149.2 | 156.8 | 192.1 | 179.5 | 118.8 | 101.1 | 65.7 | 55.6 | 48.0 | 63.2 | 45.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P649101
 CATALOG NUMBER: GLAN-SA8C-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 |
| 2.5° | 8341.8 | 8291.3 | 8182.6 | 8157.3 | 8142.1 | 8185.1 | 8071.3 | 8101.7 | 8051.1 | 8192.7 | 8169.9 |
| 5° | 6984.4 | 6989.4 | 7077.9 | 7136.0 | 7156.3 | 7136.0 | 7060.2 | 6928.8 | 6827.7 | 6787.2 | 6797.3 |
| 7.5° | 6018.8 | 6107.2 | 6258.9 | 6428.3 | 6582.4 | 6627.9 | 6585.0 | 6334.7 | 6061.8 | 5889.8 | 5834.2 |
| 10° | 5697.7 | 5816.5 | 5991.0 | 6124.9 | 6261.4 | 6370.1 | 6392.9 | 6198.2 | 5874.7 | 5467.7 | 5308.4 |
| 12.5° | 5715.4 | 5877.2 | 6044.1 | 6087.0 | 6074.4 | 6117.3 | 6097.1 | 6064.3 | 5851.9 | 5333.7 | 5068.3 |
| 15° | 5548.6 | 5740.7 | 5857.0 | 5834.2 | 5793.8 | 5755.8 | 5702.7 | 5619.4 | 5543.5 | 5179.5 | 4886.3 |
| 17.5° | 5164.4 | 5361.5 | 5457.6 | 5465.2 | 5465.2 | 5455.1 | 5326.1 | 5295.8 | 5285.7 | 5108.8 | 4929.2 |
| 20° | 5235.1 | 5343.8 | 5300.8 | 5230.0 | 5250.3 | 5318.5 | 5242.7 | 5227.5 | 5285.7 | 5364.0 | 5331.2 |
| 22.5° | 5275.5 | 5237.6 | 4914.1 | 4600.7 | 4529.9 | 4742.2 | 4785.1 | 4954.5 | 5189.6 | 5472.8 | 5657.3 |
| 25° | 5025.3 | 4719.5 | 4140.6 | 3786.7 | 3587.0 | 3784.2 | 4042.0 | 4355.4 | 4706.8 | 5070.8 | 5285.7 |
| 27.5° | 4201.3 | 3968.7 | 3554.1 | 3235.6 | 3061.2 | 3091.5 | 3311.5 | 3597.1 | 3923.2 | 4168.4 | 4325.1 |
| 30° | 3164.8 | 3061.2 | 2846.4 | 2737.6 | 2631.4 | 2606.2 | 2699.7 | 2808.4 | 2952.5 | 2982.8 | 3023.2 |
| 32.5° | 2330.7 | 2315.5 | 2328.1 | 2292.7 | 2272.5 | 2270.0 | 2242.2 | 2267.5 | 2282.6 | 2300.3 | 2264.9 |
| 35° | 2108.2 | 2087.9 | 2052.6 | 2042.5 | 2029.8 | 2034.9 | 2022.3 | 2009.6 | 2019.7 | 2034.9 | 2045.0 |
| 37.5° | 1994.5 | 1964.2 | 1913.6 | 1895.9 | 1895.9 | 1903.5 | 1883.2 | 1878.2 | 1895.9 | 1943.9 | 1969.2 |
| 40° | 1906.0 | 1870.6 | 1812.5 | 1789.7 | 1804.9 | 1825.1 | 1797.3 | 1787.2 | 1830.2 | 1880.7 | 1921.2 |
| 42.5° | 1822.6 | 1794.8 | 1739.1 | 1713.8 | 1726.5 | 1764.4 | 1724.0 | 1716.4 | 1772.0 | 1827.6 | 1875.7 |
| 45° | 1751.8 | 1724.0 | 1673.4 | 1660.7 | 1665.8 | 1701.2 | 1673.4 | 1673.4 | 1726.5 | 1787.2 | 1830.2 |
| 47.5° | 1696.1 | 1660.7 | 1627.9 | 1617.8 | 1622.8 | 1643.0 | 1638.0 | 1638.0 | 1688.6 | 1751.8 | 1794.8 |
| 50° | 1640.5 | 1610.2 | 1567.3 | 1572.3 | 1584.9 | 1612.7 | 1610.2 | 1617.8 | 1668.3 | 1746.7 | 1792.2 |
| 52.5° | 1615.3 | 1569.8 | 1521.8 | 1526.8 | 1564.7 | 1597.6 | 1587.5 | 1595.0 | 1653.2 | 1799.8 | 1865.5 |
| 55° | 1587.5 | 1526.8 | 1471.2 | 1478.8 | 1521.8 | 1569.8 | 1557.2 | 1567.3 | 1635.5 | 1835.2 | 1926.2 |
| 57.5° | 1534.4 | 1463.6 | 1403.0 | 1408.0 | 1471.2 | 1521.8 | 1501.6 | 1514.2 | 1595.0 | 1797.3 | 1893.4 |
| 58° | 1511.7 | 1451.0 | 1392.8 | 1395.4 | 1456.0 | 1511.7 | 1488.9 | 1499.0 | 1582.4 | 1787.2 | 1878.2 |
| 60° | 1415.6 | 1380.2 | 1329.6 | 1332.2 | 1390.3 | 1438.4 | 1425.7 | 1435.8 | 1516.7 | 1713.8 | 1782.1 |
| 62.5° | 1284.1 | 1263.9 | 1251.3 | 1251.3 | 1286.6 | 1332.2 | 1344.8 | 1357.4 | 1430.8 | 1549.6 | 1610.2 |
| 65° | 1142.6 | 1142.6 | 1145.1 | 1145.1 | 1167.8 | 1226.0 | 1233.6 | 1266.4 | 1334.7 | 1392.8 | 1438.4 |
| 67.5° | 1046.6 | 1041.5 | 1046.6 | 1033.9 | 1044.0 | 1079.4 | 1117.3 | 1147.6 | 1218.4 | 1258.8 | 1274.0 |
| 70° | 922.7 | 920.1 | 922.7 | 905.0 | 917.6 | 947.9 | 973.2 | 1023.8 | 1097.1 | 1127.4 | 1135.0 |
| 72.5° | 801.3 | 801.3 | 806.4 | 793.7 | 793.7 | 826.6 | 844.3 | 899.9 | 968.2 | 985.9 | 988.4 |
| 75° | 674.9 | 682.5 | 682.5 | 664.8 | 669.9 | 690.1 | 712.8 | 758.3 | 821.5 | 834.2 | 834.2 |
| 77.5° | 535.9 | 563.7 | 563.7 | 546.0 | 553.6 | 556.1 | 586.5 | 609.2 | 657.3 | 662.3 | 642.1 |
| 80° | 389.3 | 417.1 | 439.8 | 424.7 | 437.3 | 422.1 | 439.8 | 455.0 | 503.0 | 480.3 | 447.4 |
| 82.5° | 278.0 | 298.2 | 315.9 | 318.5 | 305.8 | 278.0 | 300.8 | 303.3 | 326.1 | 295.7 | 278.0 |
| 85° | 154.2 | 171.9 | 194.7 | 184.6 | 164.3 | 146.6 | 154.2 | 159.3 | 156.8 | 149.2 | 139.1 |
| 87.5° | 40.5 | 43.0 | 48.0 | 35.4 | 32.9 | 27.8 | 37.9 | 37.9 | 43.0 | 45.5 | 43.0 |
| 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-SA8C-835-U-SLR

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 | 9615.9 |
| 2.5° | 8187.6 | 8298.9 | 8539.0 | 8721.0 | 8943.4 | 9214.0 | 9532.4 | 9853.4 | 10199.7 | 10308.5 | 10460.2 |
| 5° | 6774.6 | 7052.6 | 7168.9 | 7500.0 | 7828.7 | 8321.6 | 8847.4 | 9456.6 | 10124.0 | 10445.0 | 10753.3 |
| 7.5° | 5788.7 | 5937.9 | 6059.2 | 6301.9 | 6696.2 | 7295.3 | 7955.0 | 8716.0 | 9661.4 | 10129.0 | 10581.5 |
| 10° | 5257.8 | 5273.0 | 5422.2 | 5723.0 | 6066.8 | 6595.1 | 7219.5 | 8071.3 | 9125.5 | 9694.2 | 10225.0 |
| 12.5° | 4906.5 | 4840.8 | 5002.6 | 5316.0 | 5705.3 | 6193.1 | 6767.0 | 7578.4 | 8738.7 | 9322.6 | 9964.7 |
| 15° | 4598.1 | 4494.5 | 4615.8 | 4936.8 | 5321.0 | 5894.9 | 6511.7 | 7371.2 | 8587.0 | 9267.0 | 9979.9 |
| 17.5° | 4605.7 | 4320.0 | 4363.0 | 4633.5 | 5015.2 | 5599.2 | 6347.4 | 7363.6 | 8817.0 | 9600.7 | 10445.0 |
| 20° | 5174.5 | 4716.9 | 4522.3 | 4572.8 | 4941.9 | 5578.9 | 6423.2 | 7717.5 | 9572.9 | 10715.4 | 11617.9 |
| 22.5° | 5733.1 | 5457.6 | 5144.2 | 5040.5 | 5242.7 | 5910.1 | 6906.0 | 8554.2 | 11215.9 | 12937.4 | 14567.9 |
| 25° | 5538.5 | 5773.5 | 5695.2 | 5548.6 | 5594.1 | 6147.6 | 7234.6 | 9241.7 | 12492.5 | 14431.3 | 15963.2 |
| 27.5° | 4431.3 | 4858.5 | 4944.4 | 4941.9 | 4959.6 | 5414.6 | 6506.7 | 8779.2 | 12651.8 | 14717.0 | 16180.6 |
| 30° | 3114.3 | 3152.2 | 3197.7 | 3286.2 | 3367.1 | 3774.1 | 5091.1 | 7707.3 | 12581.0 | 14845.9 | 16312.1 |
| 32.5° | 2247.2 | 2297.8 | 2361.0 | 2482.3 | 2674.4 | 3192.6 | 4454.0 | 7366.1 | 12955.1 | 15379.3 | 16696.3 |
| 35° | 2055.1 | 2113.2 | 2173.9 | 2313.0 | 2495.0 | 2975.2 | 4201.3 | 7224.5 | 13569.4 | 16243.8 | 17386.4 |
| 37.5° | 1994.5 | 2060.2 | 2113.2 | 2214.4 | 2361.0 | 2818.5 | 3971.2 | 7128.4 | 14198.8 | 17158.9 | 18311.6 |
| 40° | 1951.5 | 2027.3 | 2070.3 | 2151.2 | 2252.3 | 2674.4 | 3766.5 | 7052.6 | 14808.0 | 17995.6 | 19054.8 |
| 42.5° | 1913.6 | 1992.0 | 2047.5 | 2105.6 | 2189.1 | 2545.5 | 3584.4 | 6976.8 | 15336.3 | 18807.0 | 19795.4 |
| 45° | 1868.1 | 1966.7 | 2037.4 | 2082.9 | 2156.2 | 2436.9 | 3445.4 | 6916.2 | 15938.0 | 19527.5 | 20543.6 |
| 47.5° | 1830.2 | 1938.9 | 2027.3 | 2080.4 | 2108.2 | 2361.0 | 3334.2 | 6999.6 | 16660.9 | 20280.7 | 21238.8 |
| 50° | 1832.7 | 1936.3 | 2047.5 | 2130.9 | 2057.6 | 2297.8 | 3266.0 | 7330.7 | 17601.2 | 21175.6 | 21787.3 |
| 52.5° | 1913.6 | 2039.9 | 2128.4 | 2148.6 | 1986.9 | 2221.9 | 3230.6 | 7909.6 | 18713.5 | 21966.8 | 22340.9 |
| 55° | 2004.6 | 2136.0 | 2232.1 | 2219.4 | 1949.0 | 2125.9 | 3223.0 | 8526.3 | 19931.9 | 22889.4 | 23061.3 |
| 57.5° | 1971.7 | 2163.8 | 2310.4 | 2244.7 | 1951.5 | 2032.4 | 3190.1 | 9024.3 | 20950.6 | 23579.6 | 23774.2 |
| 58° | 1961.6 | 2153.7 | 2320.6 | 2239.6 | 1943.9 | 2004.6 | 3182.5 | 9067.3 | 21092.1 | 23627.6 | 23875.3 |
| 60° | 1863.0 | 2065.2 | 2313.0 | 2201.7 | 1900.9 | 1928.8 | 3099.1 | 9206.4 | 21054.2 | 23379.8 | 23936.0 |
| 62.5° | 1683.5 | 1850.4 | 2138.5 | 2017.2 | 1769.5 | 1827.6 | 2912.1 | 9034.4 | 20028.0 | 22186.7 | 23048.7 |
| 65° | 1481.3 | 1605.2 | 1797.3 | 1774.5 | 1582.4 | 1724.0 | 2656.7 | 8354.5 | 17972.8 | 20250.4 | 21157.9 |
| 67.5° | 1329.6 | 1430.8 | 1552.1 | 1519.3 | 1423.2 | 1584.9 | 2381.2 | 7204.3 | 15667.4 | 17924.8 | 19067.4 |
| 70° | 1175.4 | 1253.8 | 1314.5 | 1291.7 | 1261.4 | 1448.5 | 2136.0 | 5846.9 | 13458.1 | 15715.5 | 16822.7 |
| 72.5° | 1018.7 | 1092.1 | 1142.6 | 1109.7 | 1092.1 | 1304.3 | 1936.3 | 4537.4 | 10629.5 | 12965.2 | 14388.4 |
| 75° | 851.9 | 925.2 | 960.6 | 922.7 | 912.5 | 1150.1 | 1640.5 | 3389.8 | 7975.3 | 9995.0 | 11223.5 |
| 77.5° | 659.8 | 738.1 | 783.6 | 771.0 | 776.0 | 945.4 | 1324.6 | 2320.6 | 5702.7 | 6812.5 | 8106.7 |
| 80° | 462.6 | 548.6 | 578.9 | 566.3 | 601.7 | 720.4 | 935.3 | 1473.7 | 3933.3 | 4421.1 | 5333.7 |
| 82.5° | 285.6 | 366.5 | 371.6 | 384.2 | 409.5 | 533.4 | 705.2 | 897.4 | 2469.7 | 2553.1 | 3215.4 |
| 85° | 144.1 | 174.5 | 187.1 | 207.3 | 230.0 | 326.1 | 401.9 | 556.1 | 1590.0 | 1203.2 | 1797.3 |
| 87.5° | 48.0 | 50.6 | 60.7 | 75.9 | 93.6 | 134.0 | 171.9 | 227.5 | 394.3 | 217.4 | 556.1 |
| 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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| 32.5° | 16850.5 | 15518.4 | 14608.3 | 14628.6 | 14997.6 | 16195.8 | 17442.0 | 17032.5 | 15627.0 | 15242.8 |
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| 47.5° | 20622.0 | 21375.3 | 22679.7 | 23731.2 | 24337.9 | 22424.3 | 21509.2 | 22790.9 | 21077.0 | 20374.3 |
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| 52.5° | 22436.9 | 24934.5 | 27707.5 | 29411.3 | 29161.0 | 25634.6 | 22608.9 | 23554.3 | 22103.3 | 21461.2 |
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| 57.5° | 23698.4 | 25983.5 | 28660.5 | 30088.7 | 29691.8 | 26367.8 | 23460.7 | 24135.7 | 23321.7 | 22897.0 |
| 58° | 23764.0 | 25874.8 | 28379.9 | 29785.4 | 29380.9 | 26218.6 | 23458.2 | 24125.6 | 23352.0 | 22924.8 |
| 60° | 23706.0 | 25169.5 | 27335.9 | 28587.2 | 28162.5 | 25283.3 | 23362.1 | 23936.0 | 22967.8 | 22606.3 |
| 62.5° | 23167.5 | 23946.1 | 25533.6 | 26443.6 | 26322.3 | 23822.2 | 22967.8 | 23220.6 | 21797.5 | 21448.6 |
| 65° | 22459.7 | 22277.7 | 23225.7 | 23870.2 | 23961.3 | 22727.7 | 22576.0 | 21673.6 | 20295.9 | 19803.0 |
| 67.5° | 21600.2 | 20386.9 | 20384.4 | 20750.9 | 20902.6 | 21044.1 | 21759.5 | 19992.6 | 18132.1 | 17611.4 |
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| 75° | 14158.4 | 10371.7 | 9044.6 | 9555.2 | 9358.0 | 10809.0 | 14780.2 | 10538.5 | 9206.4 | 8920.7 |
| 77.5° | 10993.5 | 7515.2 | 6744.2 | 6673.4 | 6820.1 | 8043.5 | 10841.8 | 7115.8 | 6069.3 | 5874.7 |
| 80° | 7062.7 | 5379.2 | 5424.7 | 5333.7 | 5409.5 | 5070.8 | 6582.4 | 4540.0 | 4110.3 | 3953.5 |
| 82.5° | 4648.7 | 3748.8 | 4469.2 | 4125.4 | 3918.1 | 3410.0 | 4317.5 | 2972.7 | 2522.7 | 2436.9 |
| 85° | 3167.4 | 2760.4 | 2512.6 | 1921.2 | 2262.4 | 2626.4 | 3238.2 | 1600.1 | 1268.9 | 1150.1 |
| 87.5° | 1430.8 | 960.6 | 705.2 | 434.8 | 687.6 | 793.7 | 1572.3 | 187.1 | 144.1 | 149.2 |
| 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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