

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: P457217

Luminaire Tested: **GLAN-SA8C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56269 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

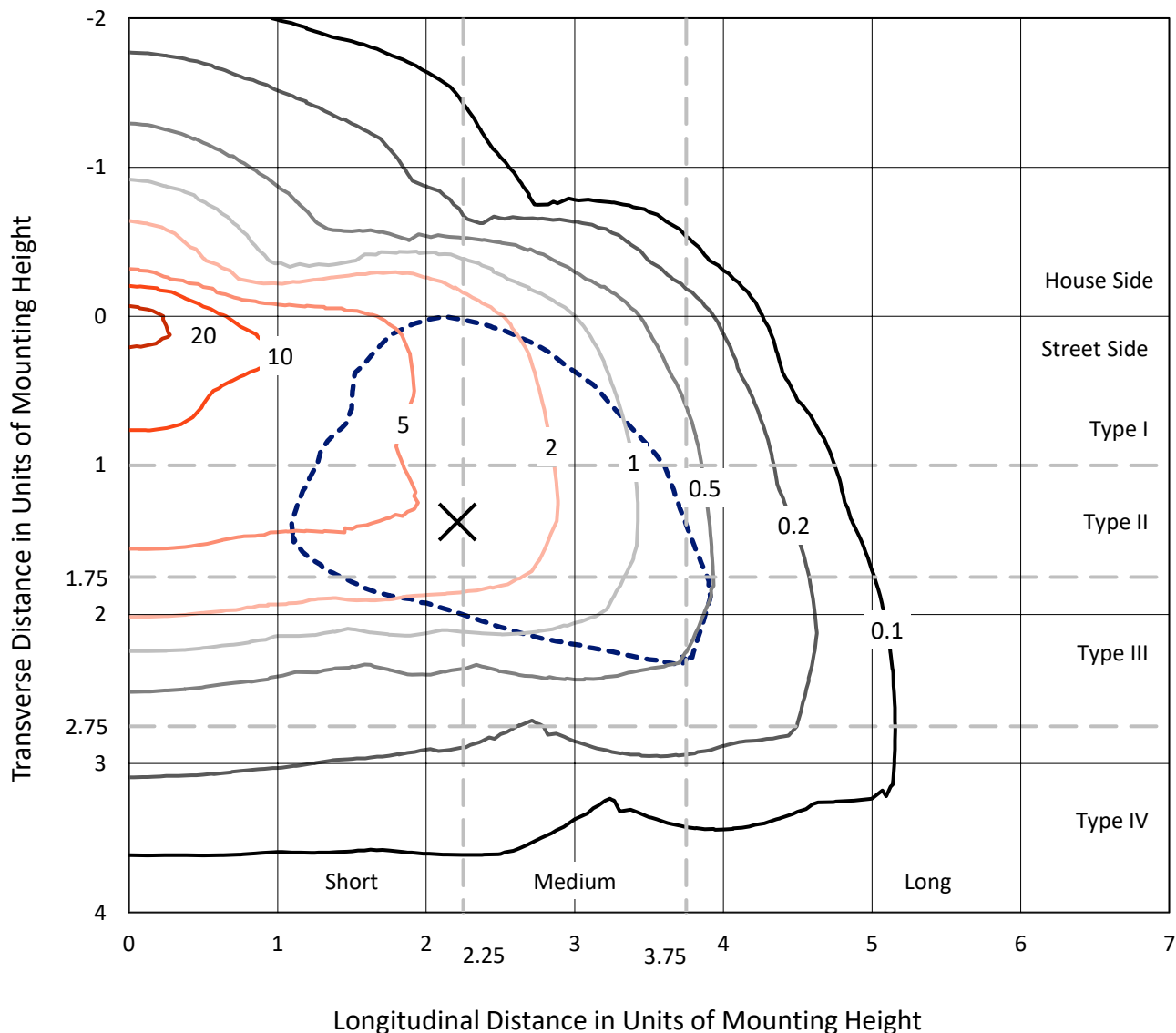
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457217
 CATALOG NUMBER: GLAN-SA8C-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

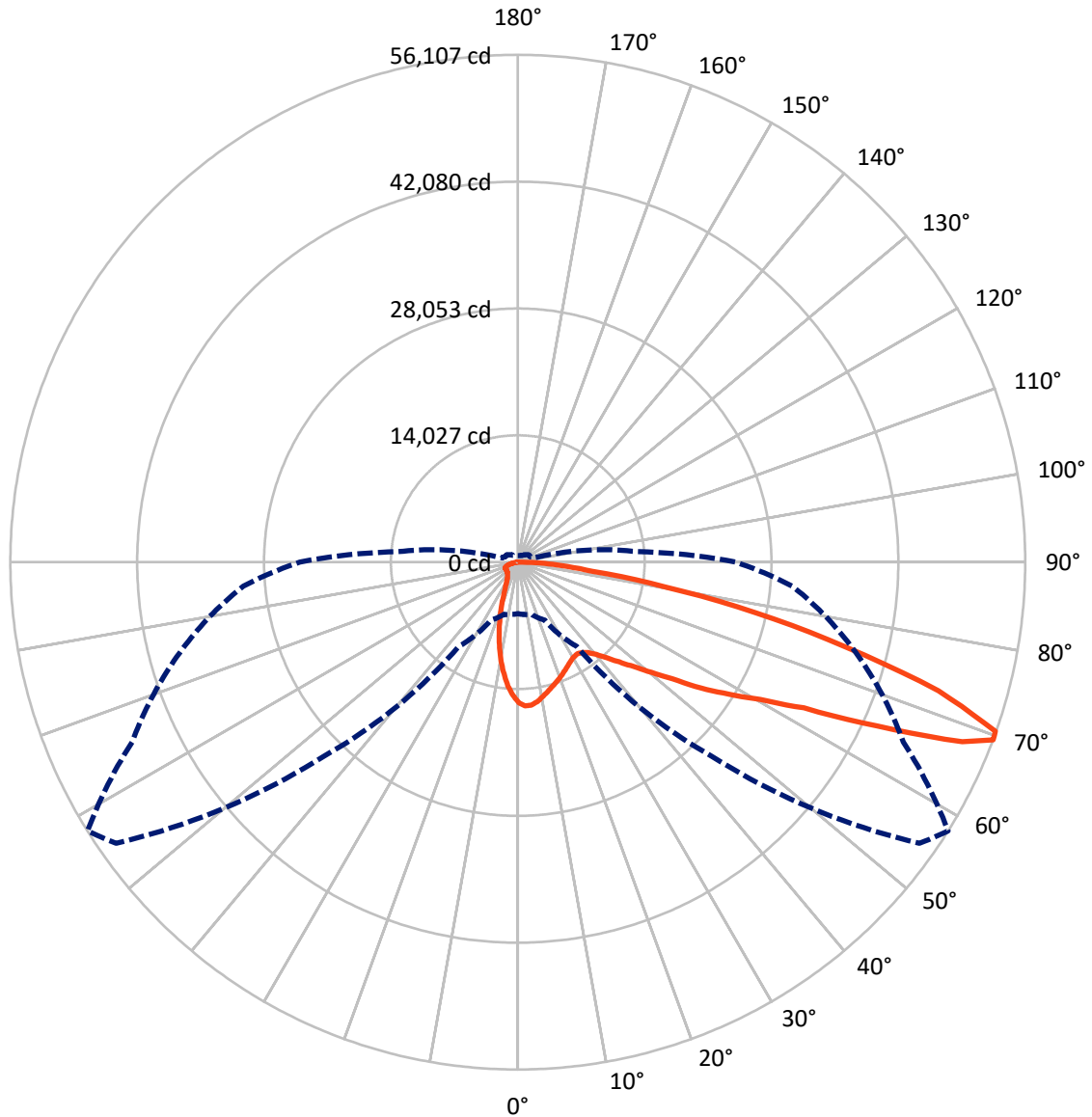
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Short - N/A

REPORT NUMBER: P457217
CATALOG NUMBER: GLAN-SA8C-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P457217

CATALOG NUMBER: GLAN-SA8C-740-U-SL3

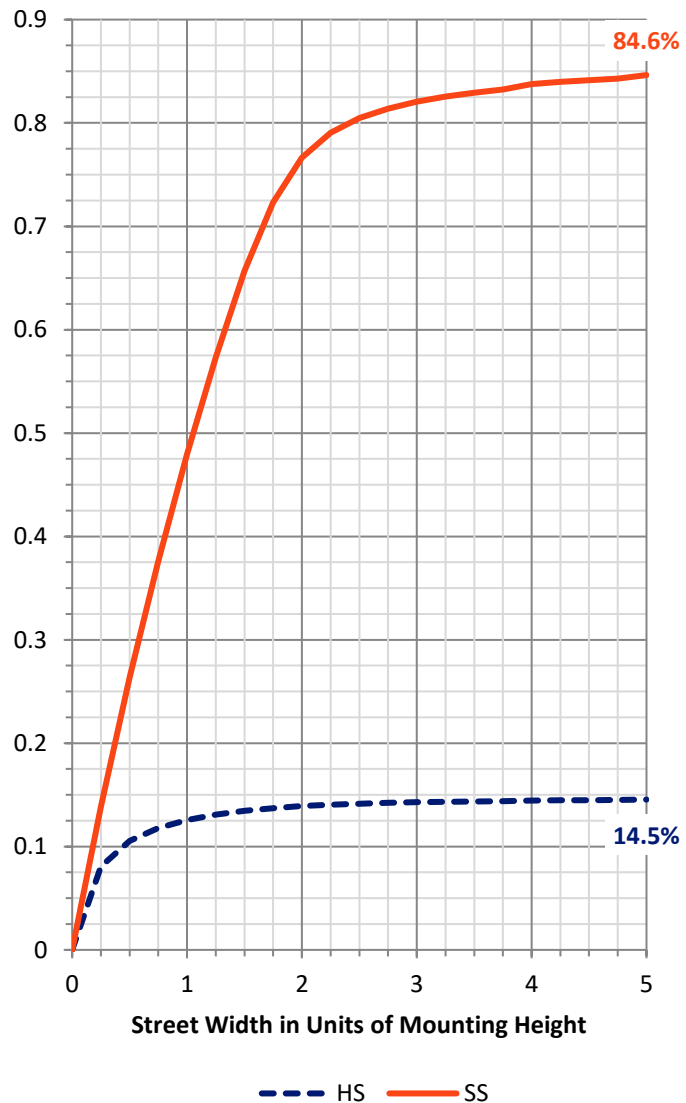
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8246.2 | 0.0 | 8246.2 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 48022.8 | 0.0 | 48022.8 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 56269.0 | 0.0 | 56269.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1320.5 | 2.3 |
| 10°-20° | 2899.7 | 5.2 |
| 20°-30° | 3746.4 | 6.7 |
| 30°-40° | 4865.8 | 8.6 |
| 40°-50° | 7074.2 | 12.6 |
| 50°-60° | 11288.1 | 20.1 |
| 60°-70° | 15079.5 | 26.8 |
| 70°-80° | 8692.7 | 15.4 |
| 80°-90° | 1302.0 | 2.3 |
| 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° | 56269.0 | 100.0 |
| 0°-180° | 56269.0 | 100.0 |



REPORT NUMBER: P457217

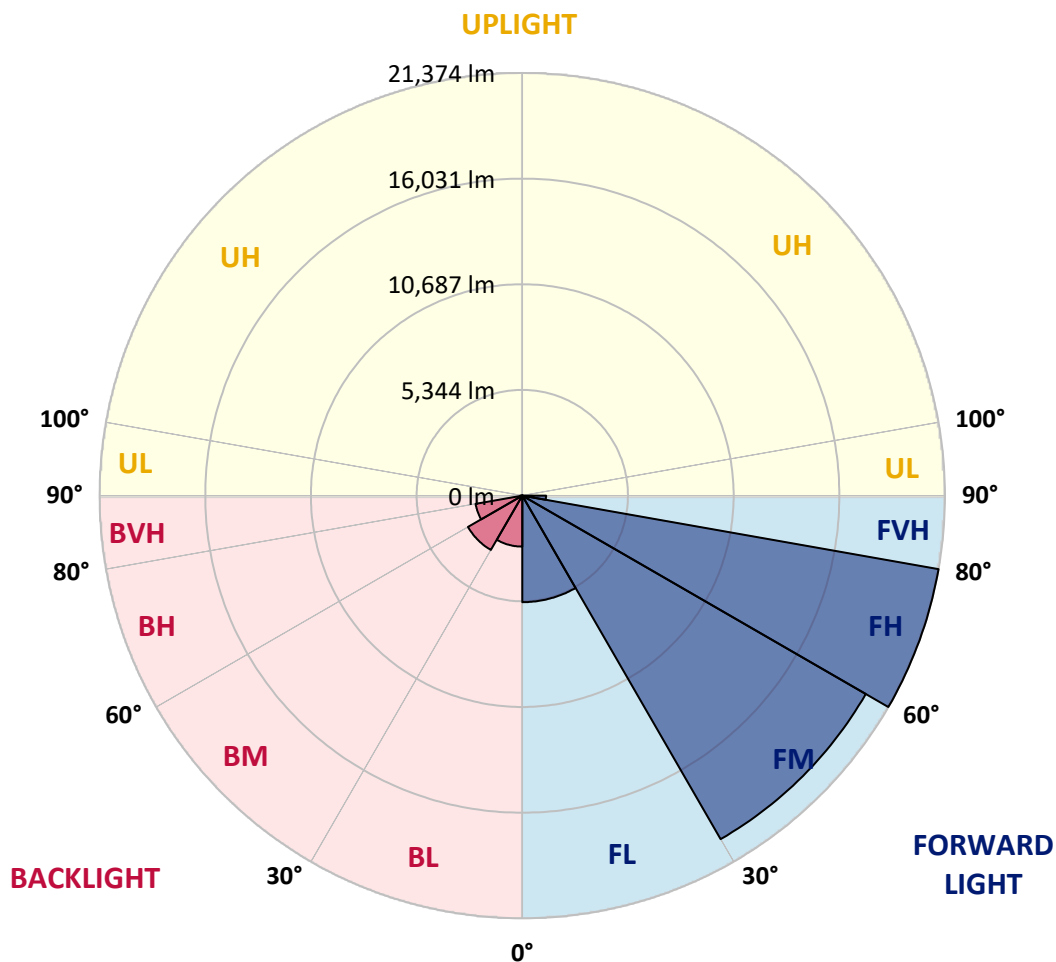
CATALOG NUMBER: GLAN-SA8C-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5389.1 | 9.6 | | | |
| FM | (30°-60°) | 20057.0 | 35.6 | | | |
| FH | (60°-80°) | 21374.4 | 38.0 | | | G5 |
| FVH | (80°-90°) | 1202.2 | 2.1 | | | G5 |
| BL | (0°-30°) | 2577.4 | 4.6 | B4/5000 | | |
| BM | (30°-60°) | 3171.2 | 5.6 | B3/5000 | | |
| BH | (60°-80°) | 2397.8 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 99.8 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P457217
 CATALOG NUMBER: GLAN-SA8C-740-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 |
| 2.5° | 16126.9 | 16170.8 | 16158.3 | 16142.6 | 16117.5 | 16048.4 | 15935.4 | 15916.6 | 15844.4 | 15690.7 | 15499.2 |
| 5° | 15879.0 | 15916.6 | 15919.8 | 15941.7 | 15973.1 | 15960.6 | 15879.0 | 15869.5 | 15762.9 | 15555.7 | 15235.6 |
| 7.5° | 15028.5 | 15078.7 | 15188.6 | 15311.0 | 15420.8 | 15524.4 | 15549.5 | 15565.1 | 15499.2 | 15260.7 | 14834.0 |
| 10° | 14071.4 | 14121.6 | 14171.8 | 14353.8 | 14623.7 | 14881.0 | 15094.4 | 15122.7 | 15138.4 | 14918.7 | 14397.8 |
| 12.5° | 13010.7 | 13114.3 | 13221.0 | 13490.8 | 13851.7 | 14256.5 | 14633.1 | 14692.7 | 14799.4 | 14633.1 | 14021.2 |
| 15° | 12110.1 | 12216.8 | 12370.5 | 12612.2 | 13048.4 | 13632.1 | 14162.4 | 14259.7 | 14469.9 | 14385.2 | 13669.7 |
| 17.5° | 11485.6 | 11523.2 | 11629.9 | 11906.1 | 12376.8 | 12991.9 | 13701.1 | 13895.7 | 14231.4 | 14209.5 | 13368.5 |
| 20° | 10992.9 | 11040.0 | 11105.9 | 11275.3 | 11764.9 | 12414.5 | 13271.2 | 13522.2 | 13977.3 | 14052.6 | 13070.3 |
| 22.5° | 10785.8 | 10820.3 | 10810.9 | 10901.9 | 11234.5 | 11887.3 | 12835.0 | 13133.1 | 13751.3 | 13945.9 | 12794.2 |
| 25° | 10798.3 | 10829.7 | 10782.6 | 10760.7 | 10958.4 | 11422.8 | 12379.9 | 12759.7 | 13569.3 | 13873.7 | 12543.1 |
| 27.5° | 11008.6 | 11030.5 | 10942.7 | 10854.8 | 10870.5 | 11134.1 | 12003.4 | 12423.9 | 13415.5 | 13905.1 | 12332.9 |
| 30° | 11291.0 | 11331.8 | 11275.3 | 11168.6 | 11052.5 | 11065.1 | 11761.7 | 12176.0 | 13343.3 | 14014.9 | 12232.4 |
| 32.5° | 11655.0 | 11692.7 | 11667.6 | 11582.9 | 11432.2 | 11265.9 | 11702.1 | 12085.0 | 13349.6 | 14237.7 | 12210.5 |
| 35° | 12037.9 | 12113.2 | 12154.0 | 12147.7 | 12025.3 | 11736.6 | 11937.5 | 12254.4 | 13500.3 | 14611.2 | 12339.1 |
| 37.5° | 12470.9 | 12533.7 | 12709.4 | 12822.4 | 12709.4 | 12373.7 | 12467.8 | 12687.5 | 13832.9 | 15150.9 | 12621.6 |
| 40° | 12891.5 | 12985.6 | 13242.9 | 13594.4 | 13550.5 | 13255.5 | 13277.4 | 13421.8 | 14419.7 | 15954.3 | 13173.9 |
| 42.5° | 13330.8 | 13443.8 | 13892.5 | 14413.5 | 14517.0 | 14287.9 | 14347.6 | 14476.2 | 15254.5 | 17068.3 | 14121.6 |
| 45° | 13895.7 | 14030.6 | 14582.9 | 15232.5 | 15640.5 | 15499.2 | 15668.7 | 15731.5 | 16371.6 | 18518.1 | 15370.6 |
| 47.5° | 14623.7 | 14780.6 | 15461.6 | 16271.2 | 16848.6 | 16977.3 | 17272.3 | 17234.6 | 17755.6 | 20234.7 | 16989.9 |
| 50° | 15850.7 | 15938.6 | 16581.9 | 17407.2 | 18201.2 | 18781.7 | 19101.8 | 19161.5 | 19472.1 | 21904.2 | 18800.6 |
| 52.5° | 17310.0 | 17388.4 | 17852.8 | 18574.6 | 19569.4 | 20799.6 | 21590.4 | 21395.8 | 21471.1 | 23937.7 | 20918.8 |
| 55° | 18951.2 | 19083.0 | 19378.0 | 19858.1 | 21147.9 | 22958.6 | 24546.5 | 24593.6 | 23758.8 | 25883.3 | 22949.2 |
| 57.5° | 20222.1 | 20444.9 | 20950.2 | 21634.3 | 23269.3 | 25359.3 | 27493.2 | 27524.6 | 26457.6 | 27960.8 | 25189.8 |
| 60° | 19582.0 | 19845.6 | 21000.4 | 22666.7 | 26052.8 | 29548.7 | 31014.2 | 30835.3 | 29084.2 | 30326.9 | 27923.1 |
| 62.5° | 16820.4 | 16867.5 | 18546.4 | 21151.0 | 26909.5 | 35153.4 | 36254.9 | 35498.6 | 32589.5 | 33327.0 | 30700.4 |
| 65° | 10886.2 | 11193.7 | 12524.3 | 16173.9 | 24094.6 | 38263.3 | 45437.1 | 43689.1 | 37503.8 | 36731.9 | 33025.7 |
| 67.5° | 6872.5 | 6794.1 | 7346.4 | 9235.5 | 16572.5 | 35523.7 | 53273.0 | 52996.8 | 43930.7 | 38881.5 | 32470.3 |
| 69° | 5698.9 | 5786.7 | 5975.0 | 7079.6 | 11404.0 | 30330.1 | 54198.7 | 56106.7 | 47046.9 | 38712.0 | 30452.5 |
| 70° | 5168.5 | 5209.3 | 5407.0 | 6276.3 | 8799.3 | 25403.2 | 52679.9 | 56022.0 | 48270.8 | 38002.8 | 28990.1 |
| 72.5° | 4101.5 | 4098.4 | 4437.3 | 5221.9 | 6577.5 | 14501.3 | 43256.0 | 48637.9 | 46902.6 | 34701.5 | 23953.4 |
| 75° | 3116.2 | 3166.4 | 3539.8 | 4418.5 | 6059.7 | 7923.8 | 30185.7 | 37456.8 | 37459.9 | 27408.5 | 14946.9 |
| 77.5° | 2246.9 | 2278.3 | 2714.5 | 3709.3 | 5708.3 | 6423.8 | 20106.0 | 26865.6 | 25255.7 | 12558.8 | 4697.8 |
| 80° | 1471.8 | 1490.6 | 1823.3 | 2937.3 | 5146.5 | 6059.7 | 11921.8 | 16443.8 | 11912.4 | 3332.7 | 1553.4 |
| 82.5° | 806.5 | 900.6 | 1114.0 | 1901.7 | 4129.8 | 5598.4 | 7246.0 | 8322.3 | 4468.7 | 1484.3 | 809.6 |
| 85° | 404.8 | 429.9 | 627.6 | 1110.9 | 2698.8 | 4631.9 | 5046.1 | 4773.1 | 2306.5 | 737.5 | 420.5 |
| 87.5° | 119.2 | 150.6 | 260.5 | 429.9 | 1095.2 | 2413.2 | 2808.6 | 2519.9 | 888.1 | 266.7 | 87.9 |
| 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: P457217
 CATALOG NUMBER: GLAN-SA8C-740-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 | 15549.5 |
| 2.5° | 15420.8 | 15364.3 | 15113.3 | 14887.3 | 14680.2 | 14460.5 | 14275.4 | 14112.2 | 14127.9 | 14131.0 | 13964.7 |
| 5° | 15069.3 | 14940.7 | 14463.7 | 14018.0 | 13641.5 | 13164.5 | 12756.5 | 12492.9 | 12361.1 | 12185.4 | 12248.1 |
| 7.5° | 14592.3 | 14344.4 | 13682.3 | 12941.7 | 12248.1 | 11629.9 | 10958.4 | 10497.1 | 10202.1 | 9916.5 | 9954.2 |
| 10° | 14099.6 | 13701.1 | 12737.7 | 11758.6 | 10861.1 | 9872.6 | 9015.9 | 8281.5 | 7735.5 | 7531.5 | 7396.6 |
| 12.5° | 13594.4 | 13070.3 | 11846.5 | 10544.1 | 9304.6 | 8121.5 | 6907.0 | 6119.4 | 5516.8 | 5196.8 | 5237.5 |
| 15° | 13133.1 | 12496.1 | 10917.6 | 9329.7 | 7719.8 | 6310.8 | 5099.5 | 4349.5 | 3928.9 | 3841.1 | 3891.3 |
| 17.5° | 12706.3 | 11871.6 | 10048.3 | 8149.7 | 6270.0 | 4732.3 | 3831.7 | 3408.0 | 3238.6 | 3191.5 | 3188.3 |
| 20° | 12267.0 | 11341.2 | 9072.3 | 6888.2 | 4886.1 | 3668.5 | 3144.4 | 2946.7 | 2915.3 | 2934.2 | 2937.3 |
| 22.5° | 11821.4 | 10685.3 | 8068.1 | 5636.1 | 3891.3 | 3000.1 | 2749.0 | 2695.7 | 2720.8 | 2764.7 | 2771.0 |
| 25° | 11410.3 | 10107.9 | 7101.6 | 4537.7 | 3106.8 | 2636.0 | 2513.6 | 2513.6 | 2570.1 | 2636.0 | 2639.2 |
| 27.5° | 11071.3 | 9549.3 | 6138.2 | 3602.6 | 2601.5 | 2372.4 | 2331.6 | 2353.6 | 2432.1 | 2482.3 | 2485.4 |
| 30° | 10792.0 | 9028.4 | 5228.1 | 2887.1 | 2287.7 | 2162.2 | 2152.8 | 2190.4 | 2246.9 | 2294.0 | 2297.1 |
| 32.5° | 10581.8 | 8570.2 | 4377.7 | 2425.8 | 2071.2 | 2002.1 | 1999.0 | 2027.2 | 2058.6 | 2071.2 | 2083.7 |
| 35° | 10500.2 | 8190.5 | 3599.4 | 2133.9 | 1926.8 | 1882.9 | 1882.9 | 1879.7 | 1892.3 | 1898.6 | 1904.8 |
| 37.5° | 10566.1 | 7898.7 | 2996.9 | 1945.6 | 1820.1 | 1788.7 | 1769.9 | 1751.1 | 1744.8 | 1744.8 | 1747.9 |
| 40° | 10845.4 | 7744.9 | 2548.2 | 1823.3 | 1744.8 | 1697.7 | 1663.2 | 1641.2 | 1619.3 | 1625.6 | 1631.8 |
| 42.5° | 11438.5 | 7773.2 | 2243.8 | 1741.7 | 1678.9 | 1613.0 | 1562.8 | 1537.7 | 1522.0 | 1540.8 | 1537.7 |
| 45° | 12383.1 | 8055.6 | 2049.2 | 1685.2 | 1613.0 | 1528.3 | 1481.2 | 1456.1 | 1456.1 | 1484.3 | 1493.8 |
| 47.5° | 13704.2 | 8595.4 | 1945.6 | 1641.2 | 1562.8 | 1462.4 | 1415.3 | 1396.5 | 1402.7 | 1449.8 | 1453.0 |
| 50° | 15317.2 | 9533.7 | 1926.8 | 1619.3 | 1537.7 | 1415.3 | 1362.0 | 1343.1 | 1358.8 | 1409.0 | 1415.3 |
| 52.5° | 17096.6 | 10741.8 | 2017.8 | 1622.4 | 1515.7 | 1387.1 | 1318.0 | 1289.8 | 1305.5 | 1346.3 | 1358.8 |
| 55° | 19205.4 | 12254.4 | 2253.2 | 1635.0 | 1484.3 | 1371.4 | 1286.6 | 1223.9 | 1242.7 | 1270.9 | 1274.1 |
| 57.5° | 21358.1 | 14162.4 | 2667.4 | 1638.1 | 1459.2 | 1343.1 | 1233.3 | 1151.7 | 1151.7 | 1170.5 | 1179.9 |
| 60° | 23987.9 | 16239.8 | 3213.4 | 1641.2 | 1462.4 | 1302.3 | 1161.1 | 1070.1 | 1057.6 | 1067.0 | 1070.1 |
| 62.5° | 26598.8 | 17978.4 | 3304.5 | 1631.8 | 1493.8 | 1261.5 | 1082.7 | 988.5 | 966.5 | 963.4 | 957.1 |
| 65° | 27750.5 | 17655.1 | 2708.2 | 1587.9 | 1528.3 | 1236.4 | 1019.9 | 910.1 | 872.4 | 859.8 | 859.8 |
| 67.5° | 25873.9 | 14934.4 | 2036.6 | 1528.3 | 1506.3 | 1211.3 | 960.3 | 844.2 | 800.2 | 775.1 | 775.1 |
| 69° | 24110.3 | 13283.7 | 1829.5 | 1487.5 | 1449.8 | 1170.5 | 922.6 | 809.6 | 756.3 | 728.0 | 718.6 |
| 70° | 22748.3 | 12147.7 | 1741.7 | 1453.0 | 1396.5 | 1123.5 | 894.4 | 784.5 | 724.9 | 693.5 | 687.3 |
| 72.5° | 18154.1 | 9530.5 | 1525.1 | 1321.2 | 1189.4 | 944.6 | 793.9 | 706.1 | 649.6 | 615.1 | 605.7 |
| 75° | 10462.5 | 5165.4 | 1264.7 | 1148.6 | 957.1 | 734.3 | 671.6 | 615.1 | 571.1 | 539.8 | 530.3 |
| 77.5° | 3219.7 | 1995.9 | 916.3 | 906.9 | 702.9 | 568.0 | 536.6 | 514.7 | 483.3 | 448.8 | 442.5 |
| 80° | 1355.7 | 1016.8 | 621.4 | 611.9 | 467.6 | 395.4 | 386.0 | 382.9 | 370.3 | 342.1 | 332.6 |
| 82.5° | 743.7 | 574.3 | 433.1 | 376.6 | 282.4 | 229.1 | 238.5 | 241.6 | 232.2 | 204.0 | 185.1 |
| 85° | 364.0 | 313.8 | 210.3 | 169.5 | 128.7 | 81.6 | 78.5 | 94.1 | 87.9 | 62.8 | 69.0 |
| 87.5° | 72.2 | 87.9 | 56.5 | 25.1 | 12.6 | 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 |

(END OF REPORT)