

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: P457447

Luminaire Tested: **GLAN-SA8D-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62354 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

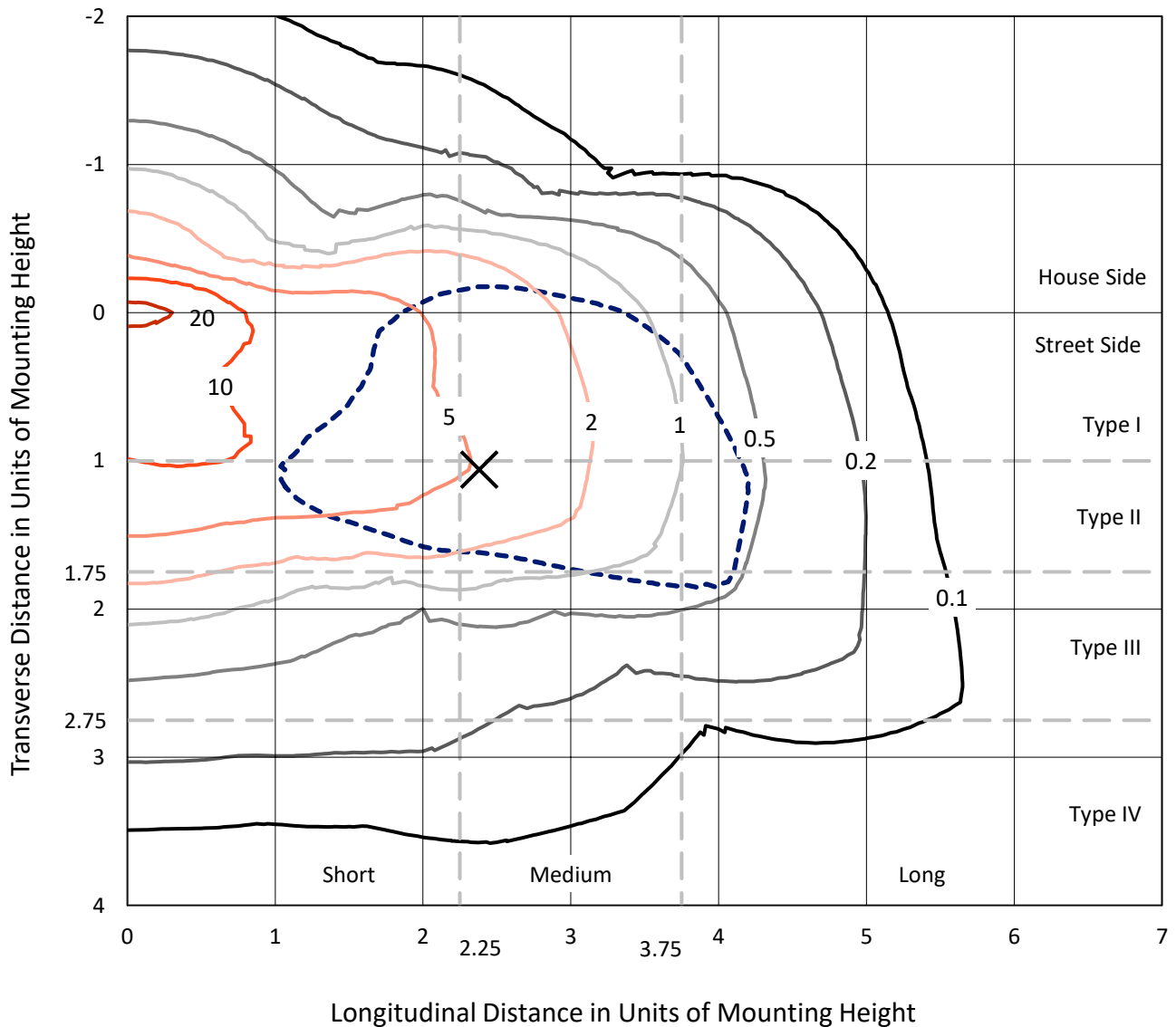
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457447
 CATALOG NUMBER: GLAN-SA8D-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

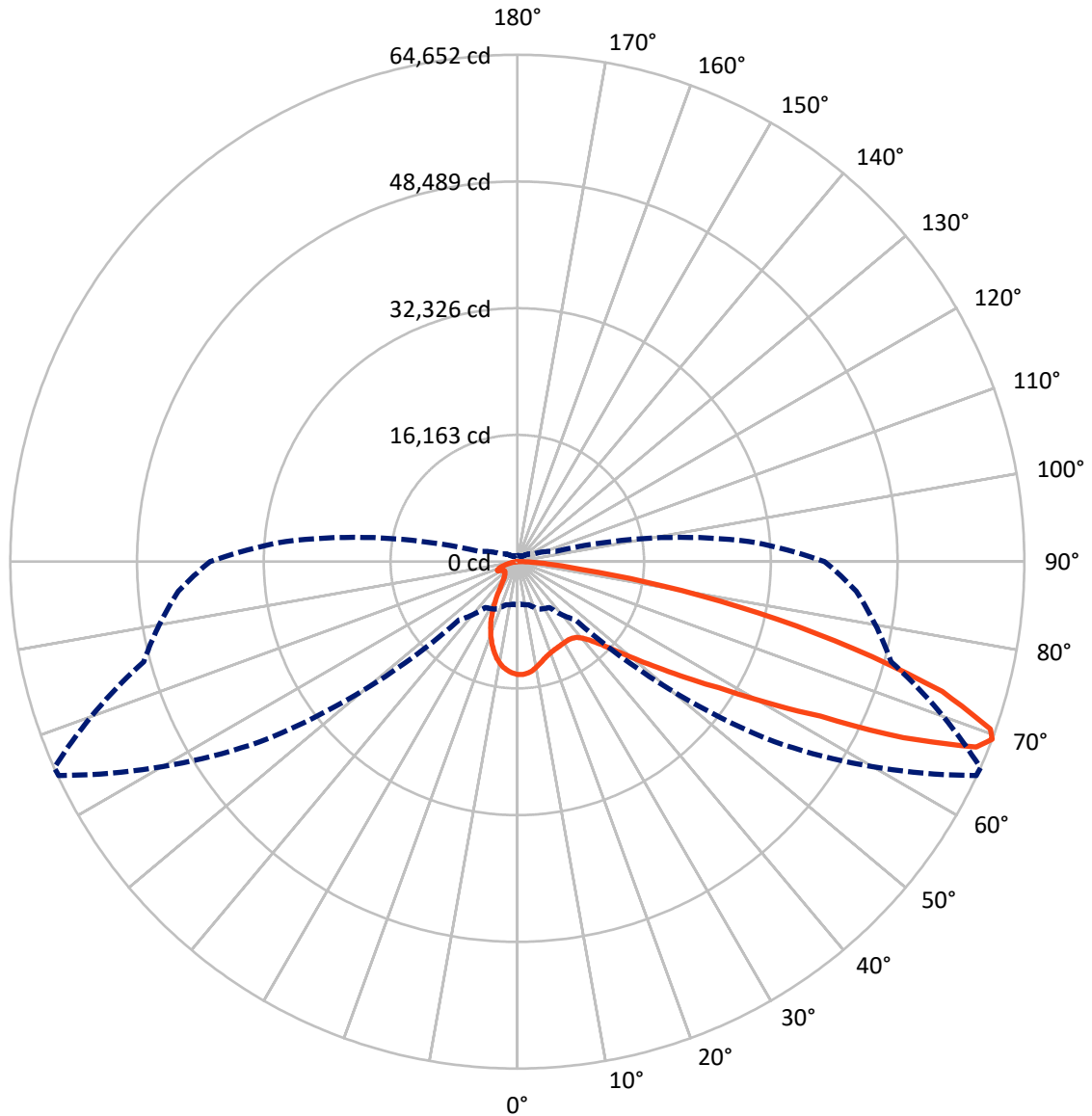
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11726.4 | 0.0 | 11726.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 50627.6 | 0.0 | 50627.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 62354.0 | 0.0 | 62354.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1250.4 | 2.0 |
| 10°-20° | 2965.9 | 4.8 |
| 20°-30° | 4037.7 | 6.5 |
| 30°-40° | 5425.8 | 8.7 |
| 40°-50° | 8101.6 | 13.0 |
| 50°-60° | 12886.9 | 20.7 |
| 60°-70° | 15850.1 | 25.4 |
| 70°-80° | 10312.8 | 16.5 |
| 80°-90° | 1522.9 | 2.4 |
| 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° | 62354.0 | 100.0 |
| 0°-180° | 62354.0 | 100.0 |



REPORT NUMBER: P457447

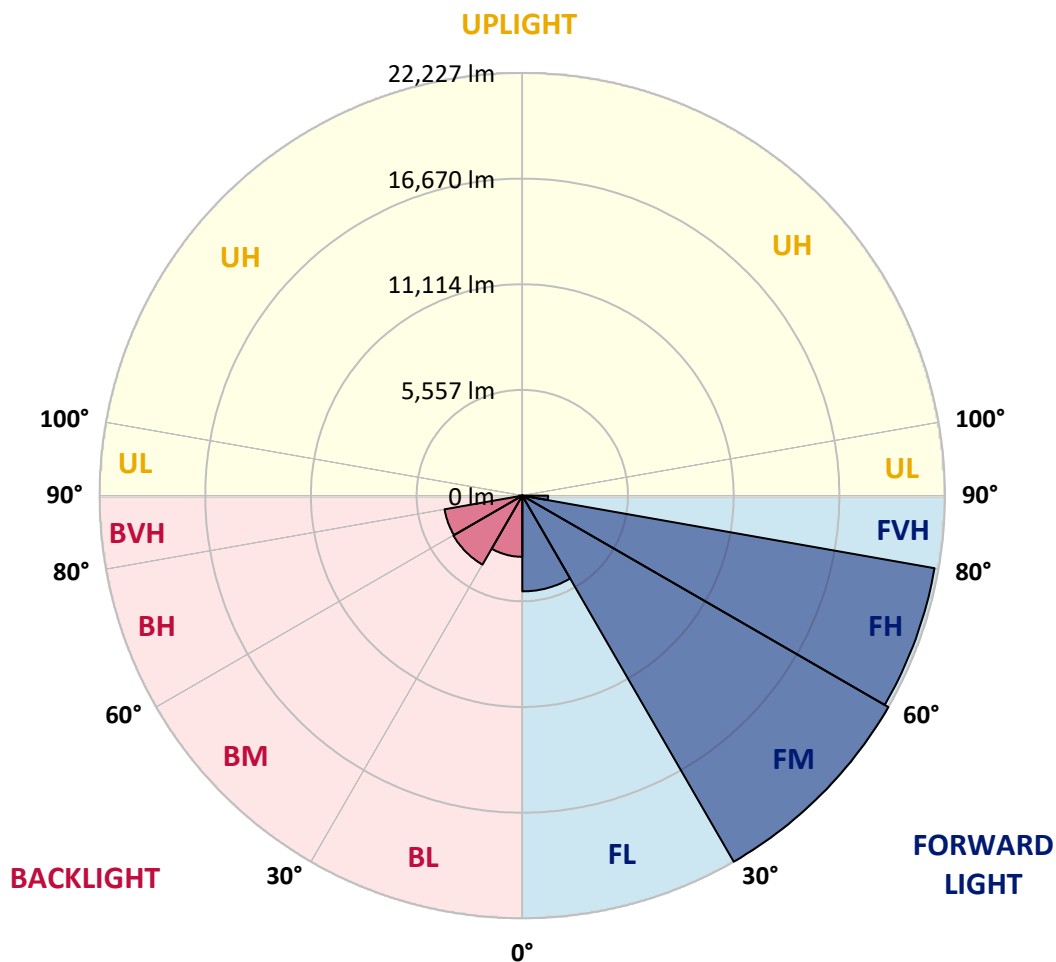
CATALOG NUMBER: GLAN-SA8D-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 5035.0 | 8.1 | | | |
| FM | (30°-60°) | 22227.3 | 35.6 | | | |
| FH | (60°-80°) | 22011.3 | 35.3 | | | G5 |
| FVH | (80°-90°) | 1353.9 | 2.2 | | | G5 |
| BL | (0°-30°) | 3219.0 | 5.2 | B4/5000 | | |
| BM | (30°-60°) | 4186.9 | 6.7 | B3/5000 | | |
| BH | (60°-80°) | 4151.7 | 6.7 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 169.0 | 0.3 | | | 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 III Medium





REPORT NUMBER: P457447

CATALOG NUMBER: GLAN-SA8D-740-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 |
| 2.5° | 13895.1 | 13950.4 | 14012.5 | 14081.6 | 14212.8 | 14285.3 | 14337.1 | 14395.8 | 14402.7 | 14433.8 | 14409.6 |
| 5° | 12869.6 | 12935.2 | 13028.4 | 13159.6 | 13356.4 | 13663.8 | 13981.5 | 14240.4 | 14271.5 | 14416.5 | 14458.0 |
| 7.5° | 12013.2 | 12051.2 | 12127.2 | 12337.8 | 12617.5 | 12959.3 | 13422.1 | 13946.9 | 14022.9 | 14368.2 | 14489.1 |
| 10° | 11315.7 | 11353.7 | 11443.4 | 11661.0 | 11937.2 | 12365.4 | 12873.0 | 13563.6 | 13625.8 | 14219.7 | 14496.0 |
| 12.5° | 10794.3 | 10828.8 | 10925.5 | 11139.6 | 11457.3 | 11857.8 | 12417.2 | 13149.3 | 13239.0 | 14022.9 | 14430.3 |
| 15° | 10397.2 | 10462.8 | 10542.2 | 10718.3 | 11053.3 | 11440.0 | 11982.1 | 12769.4 | 12841.9 | 13815.7 | 14385.5 |
| 17.5° | 10228.0 | 10259.0 | 10314.3 | 10476.6 | 10721.8 | 11101.6 | 11647.2 | 12472.5 | 12558.8 | 13670.7 | 14375.1 |
| 20° | 10234.9 | 10266.0 | 10276.3 | 10366.1 | 10542.2 | 10870.2 | 11408.9 | 12237.7 | 12341.2 | 13542.9 | 14392.4 |
| 22.5° | 10469.7 | 10473.1 | 10435.2 | 10404.1 | 10473.1 | 10745.9 | 11239.7 | 12061.5 | 12182.4 | 13487.7 | 14406.2 |
| 25° | 10832.3 | 10894.4 | 10839.2 | 10694.1 | 10566.4 | 10697.6 | 11174.1 | 11964.9 | 12078.8 | 13408.2 | 14388.9 |
| 27.5° | 11419.3 | 11429.6 | 11384.7 | 11187.9 | 10856.4 | 10759.7 | 11146.5 | 11892.3 | 11989.0 | 13349.5 | 14302.6 |
| 30° | 12206.6 | 12175.5 | 12134.1 | 11916.5 | 11395.1 | 10998.0 | 11205.2 | 11826.7 | 11926.9 | 13263.2 | 14199.0 |
| 32.5° | 13004.2 | 13100.9 | 13062.9 | 12807.4 | 12130.6 | 11460.7 | 11395.1 | 11819.8 | 11902.7 | 13197.6 | 14085.0 |
| 35° | 13850.2 | 13895.1 | 14074.7 | 13943.5 | 13249.4 | 12210.0 | 11750.8 | 11926.9 | 11992.5 | 13201.1 | 14005.6 |
| 37.5° | 14513.2 | 14634.1 | 15055.4 | 15169.3 | 14516.7 | 13201.1 | 12327.4 | 12230.7 | 12258.4 | 13370.3 | 14036.7 |
| 40° | 15314.3 | 15521.5 | 16063.6 | 16529.8 | 16101.6 | 14489.1 | 13308.1 | 12793.6 | 12828.1 | 13777.7 | 14240.4 |
| 42.5° | 16329.5 | 16474.6 | 17203.2 | 17835.1 | 17766.0 | 16191.4 | 14496.0 | 13715.6 | 13732.8 | 14589.2 | 14810.2 |
| 45° | 17517.4 | 17724.6 | 18542.9 | 19492.5 | 19654.8 | 18118.2 | 16212.1 | 15110.6 | 15100.2 | 15849.6 | 15873.7 |
| 47.5° | 19036.7 | 19164.5 | 19976.0 | 21011.9 | 21668.0 | 20538.8 | 18294.3 | 17113.4 | 17002.9 | 17686.6 | 17489.8 |
| 50° | 20435.2 | 20635.5 | 21250.1 | 22382.8 | 24016.1 | 23373.8 | 21032.6 | 19710.1 | 19451.1 | 20089.9 | 19758.4 |
| 52.5° | 21022.2 | 21232.9 | 21750.8 | 23156.2 | 26029.2 | 27040.9 | 24509.8 | 22807.5 | 22375.8 | 22866.2 | 22745.3 |
| 55° | 20003.6 | 20276.4 | 20759.8 | 22469.1 | 26913.2 | 31270.9 | 29199.1 | 26388.3 | 26074.1 | 25863.4 | 25898.0 |
| 57.5° | 17265.3 | 17524.3 | 18176.9 | 20062.3 | 25856.5 | 34340.7 | 35894.6 | 30991.2 | 30317.9 | 29347.6 | 29513.3 |
| 60° | 13142.4 | 13304.7 | 13643.1 | 15732.2 | 22724.6 | 35138.4 | 43498.2 | 36809.6 | 36381.5 | 32817.9 | 32935.3 |
| 62.5° | 9333.6 | 9516.6 | 9751.4 | 10794.3 | 16636.9 | 32890.4 | 49451.3 | 44934.7 | 43405.0 | 36412.5 | 36298.6 |
| 65° | 7579.5 | 7455.2 | 7738.3 | 8225.2 | 9761.8 | 25490.5 | 50791.1 | 56212.4 | 54106.0 | 41146.7 | 39565.2 |
| 67.5° | 6232.8 | 6101.6 | 6381.3 | 7248.0 | 7424.1 | 14796.4 | 45963.7 | 63532.9 | 63111.6 | 46295.2 | 42883.6 |
| 69° | 5518.0 | 5448.9 | 5694.1 | 6681.7 | 7127.1 | 10507.7 | 40041.7 | 64551.6 | 64651.7 | 49330.5 | 43394.6 |
| 70° | 4972.4 | 5000.0 | 5238.3 | 6395.1 | 6992.5 | 8663.7 | 34223.3 | 63146.2 | 63995.6 | 50846.3 | 42842.1 |
| 72.5° | 3660.2 | 3718.9 | 4050.4 | 5297.0 | 6864.7 | 7351.6 | 20366.2 | 55155.8 | 56657.9 | 50936.1 | 39192.3 |
| 75° | 2558.7 | 2531.1 | 2824.6 | 3988.3 | 6484.9 | 7286.0 | 11961.4 | 42655.7 | 44358.0 | 44026.5 | 32931.9 |
| 77.5° | 1674.7 | 1719.6 | 1954.4 | 2817.7 | 5455.8 | 7230.7 | 7797.0 | 30262.6 | 31367.6 | 29444.3 | 19478.7 |
| 80° | 1180.9 | 1177.5 | 1308.7 | 1923.4 | 4047.0 | 6947.6 | 6384.7 | 19074.7 | 18795.0 | 11571.2 | 5777.0 |
| 82.5° | 676.8 | 725.1 | 877.1 | 1353.6 | 2707.2 | 6115.4 | 5873.7 | 9123.0 | 8328.8 | 3297.7 | 1951.0 |
| 85° | 376.4 | 393.6 | 521.4 | 818.4 | 1581.5 | 4606.4 | 5127.8 | 4150.6 | 3915.8 | 1377.8 | 839.1 |
| 87.5° | 120.9 | 131.2 | 217.5 | 414.4 | 718.2 | 2175.4 | 2904.0 | 1916.4 | 1768.0 | 497.2 | 338.4 |
| 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: P457447
 CATALOG NUMBER: GLAN-SA8D-740-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 | 14399.3 |
| 2.5° | 14420.0 | 14461.4 | 14350.9 | 14243.9 | 14147.2 | 14012.5 | 13891.7 | 13791.5 | 13722.5 | 13712.1 | 13677.6 |
| 5° | 14468.3 | 14471.8 | 14261.1 | 13978.0 | 13701.8 | 13397.9 | 13083.7 | 12859.2 | 12648.6 | 12531.2 | 12472.5 |
| 7.5° | 14502.9 | 14471.8 | 14091.9 | 13632.7 | 13100.9 | 12548.4 | 11995.9 | 11553.9 | 11212.1 | 11077.4 | 11129.2 |
| 10° | 14489.1 | 14392.4 | 13836.4 | 13100.9 | 12327.4 | 11502.2 | 10707.9 | 10086.4 | 9516.6 | 9223.1 | 9230.0 |
| 12.5° | 14413.1 | 14254.2 | 13456.6 | 12503.5 | 11367.5 | 10262.5 | 9047.0 | 8207.9 | 7548.4 | 7158.2 | 7037.3 |
| 15° | 14347.5 | 14071.2 | 13011.1 | 11692.1 | 10279.8 | 8701.7 | 7220.4 | 6184.4 | 5631.9 | 5324.6 | 5321.2 |
| 17.5° | 14278.4 | 13895.1 | 12524.3 | 10832.3 | 9029.8 | 6999.4 | 5445.5 | 4654.7 | 4395.7 | 4426.8 | 4375.0 |
| 20° | 14205.9 | 13687.9 | 12016.7 | 9875.8 | 7507.0 | 5221.0 | 4078.1 | 3756.9 | 3829.4 | 3971.0 | 3991.7 |
| 22.5° | 14123.0 | 13466.9 | 11471.1 | 8822.6 | 5904.7 | 3929.6 | 3308.0 | 3259.7 | 3446.2 | 3667.2 | 3698.2 |
| 25° | 13995.3 | 13190.7 | 10783.9 | 7721.0 | 4554.6 | 3166.5 | 2897.1 | 2931.7 | 3114.7 | 3301.1 | 3321.8 |
| 27.5° | 13815.7 | 12848.8 | 10089.8 | 6346.7 | 3422.0 | 2717.6 | 2648.5 | 2693.4 | 2783.2 | 2897.1 | 2924.7 |
| 30° | 13574.0 | 12462.1 | 9292.2 | 5158.9 | 2741.7 | 2493.1 | 2465.5 | 2489.7 | 2541.5 | 2589.8 | 2603.6 |
| 32.5° | 13332.3 | 12089.2 | 8487.6 | 3950.3 | 2444.8 | 2344.6 | 2317.0 | 2317.0 | 2317.0 | 2323.9 | 2327.4 |
| 35° | 13107.8 | 11737.0 | 7624.4 | 3076.7 | 2289.4 | 2227.2 | 2189.2 | 2147.8 | 2140.9 | 2116.7 | 2116.7 |
| 37.5° | 12983.5 | 11415.8 | 6705.8 | 2576.0 | 2175.4 | 2130.5 | 2078.7 | 2009.7 | 1971.7 | 1975.2 | 1968.2 |
| 40° | 13007.7 | 11205.2 | 5870.2 | 2292.8 | 2082.2 | 2033.9 | 1954.4 | 1875.0 | 1850.8 | 1850.8 | 1843.9 |
| 42.5° | 13280.5 | 11136.1 | 5069.1 | 2144.4 | 1992.4 | 1937.2 | 1837.0 | 1764.5 | 1750.7 | 1747.2 | 1754.2 |
| 45° | 13908.9 | 11305.3 | 4350.9 | 2047.7 | 1916.4 | 1833.6 | 1733.4 | 1667.8 | 1654.0 | 1654.0 | 1650.6 |
| 47.5° | 15134.8 | 11854.4 | 3836.4 | 1985.5 | 1861.2 | 1754.2 | 1650.6 | 1585.0 | 1560.8 | 1553.9 | 1553.9 |
| 50° | 17040.9 | 13045.7 | 3453.1 | 1930.3 | 1792.1 | 1681.6 | 1574.6 | 1498.6 | 1460.6 | 1457.2 | 1453.7 |
| 52.5° | 19689.4 | 14903.4 | 3304.6 | 1888.8 | 1716.2 | 1605.7 | 1488.3 | 1415.8 | 1367.4 | 1357.1 | 1350.1 |
| 55° | 22786.8 | 17496.7 | 3508.3 | 1857.7 | 1636.8 | 1519.3 | 1398.5 | 1322.5 | 1277.6 | 1256.9 | 1253.5 |
| 57.5° | 26374.5 | 20611.3 | 4281.8 | 1816.3 | 1564.2 | 1426.1 | 1308.7 | 1232.7 | 1184.4 | 1160.2 | 1153.3 |
| 60° | 29596.2 | 23812.3 | 5631.9 | 1792.1 | 1502.1 | 1326.0 | 1205.1 | 1136.1 | 1091.2 | 1067.0 | 1063.5 |
| 62.5° | 33135.6 | 26864.8 | 7244.5 | 1857.7 | 1474.5 | 1229.3 | 1108.4 | 1046.3 | 1008.3 | 984.1 | 984.1 |
| 65° | 36916.7 | 29920.8 | 8311.5 | 2078.7 | 1515.9 | 1153.3 | 1004.8 | 953.0 | 918.5 | 901.2 | 897.8 |
| 67.5° | 39465.1 | 30977.4 | 6847.4 | 2306.6 | 1619.5 | 1070.4 | 904.7 | 863.3 | 842.5 | 825.3 | 825.3 |
| 69° | 39188.8 | 29641.1 | 5051.8 | 2365.3 | 1650.6 | 1029.0 | 849.5 | 818.4 | 790.8 | 783.8 | 776.9 |
| 70° | 38315.2 | 28118.3 | 4233.5 | 2327.4 | 1626.4 | 991.0 | 814.9 | 776.9 | 752.8 | 745.9 | 742.4 |
| 72.5° | 34126.6 | 24385.5 | 3152.6 | 2023.5 | 1384.7 | 859.8 | 721.7 | 687.2 | 666.4 | 656.1 | 656.1 |
| 75° | 28353.1 | 19931.1 | 2462.0 | 1609.1 | 1084.3 | 725.1 | 618.1 | 590.5 | 573.2 | 566.3 | 562.8 |
| 77.5° | 15891.0 | 11129.2 | 1768.0 | 1260.4 | 821.8 | 587.0 | 518.0 | 493.8 | 476.5 | 469.6 | 469.6 |
| 80° | 4426.8 | 3180.3 | 1039.4 | 832.2 | 559.4 | 445.4 | 410.9 | 393.6 | 369.5 | 352.2 | 362.6 |
| 82.5° | 1667.8 | 1377.8 | 593.9 | 500.7 | 355.7 | 297.0 | 286.6 | 272.8 | 262.4 | 238.3 | 238.3 |
| 85° | 811.5 | 669.9 | 379.8 | 265.9 | 196.8 | 155.4 | 148.5 | 141.6 | 134.7 | 117.4 | 120.9 |
| 87.5° | 279.7 | 297.0 | 165.7 | 96.7 | 58.7 | 38.0 | 31.1 | 17.3 | 17.3 | 17.3 | 17.3 |
| 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)