

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: P528910

Luminaire Tested: **GLAN-SA4A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14258 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

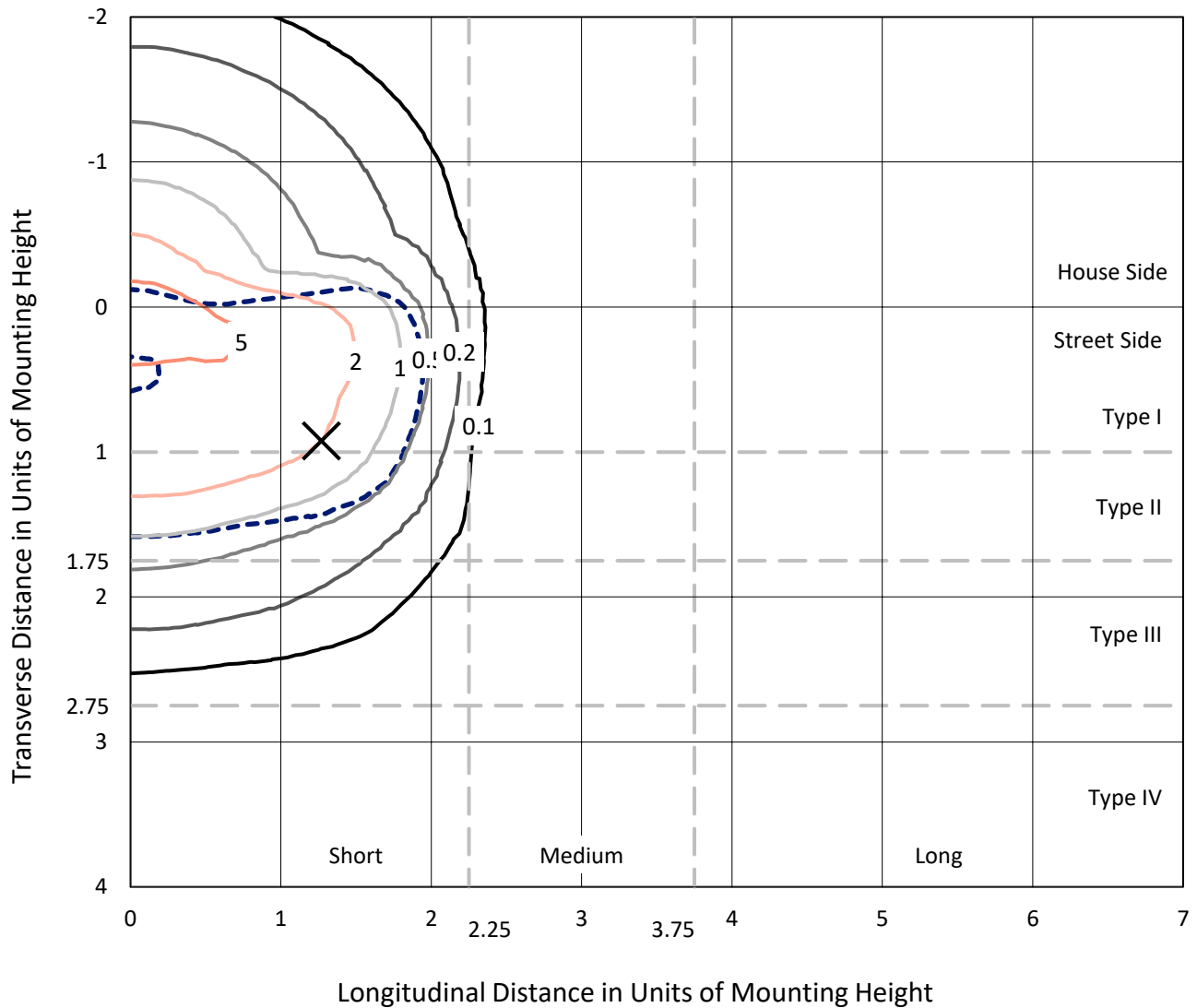
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528910  
 CATALOG NUMBER: GLAN-SA4A-735-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

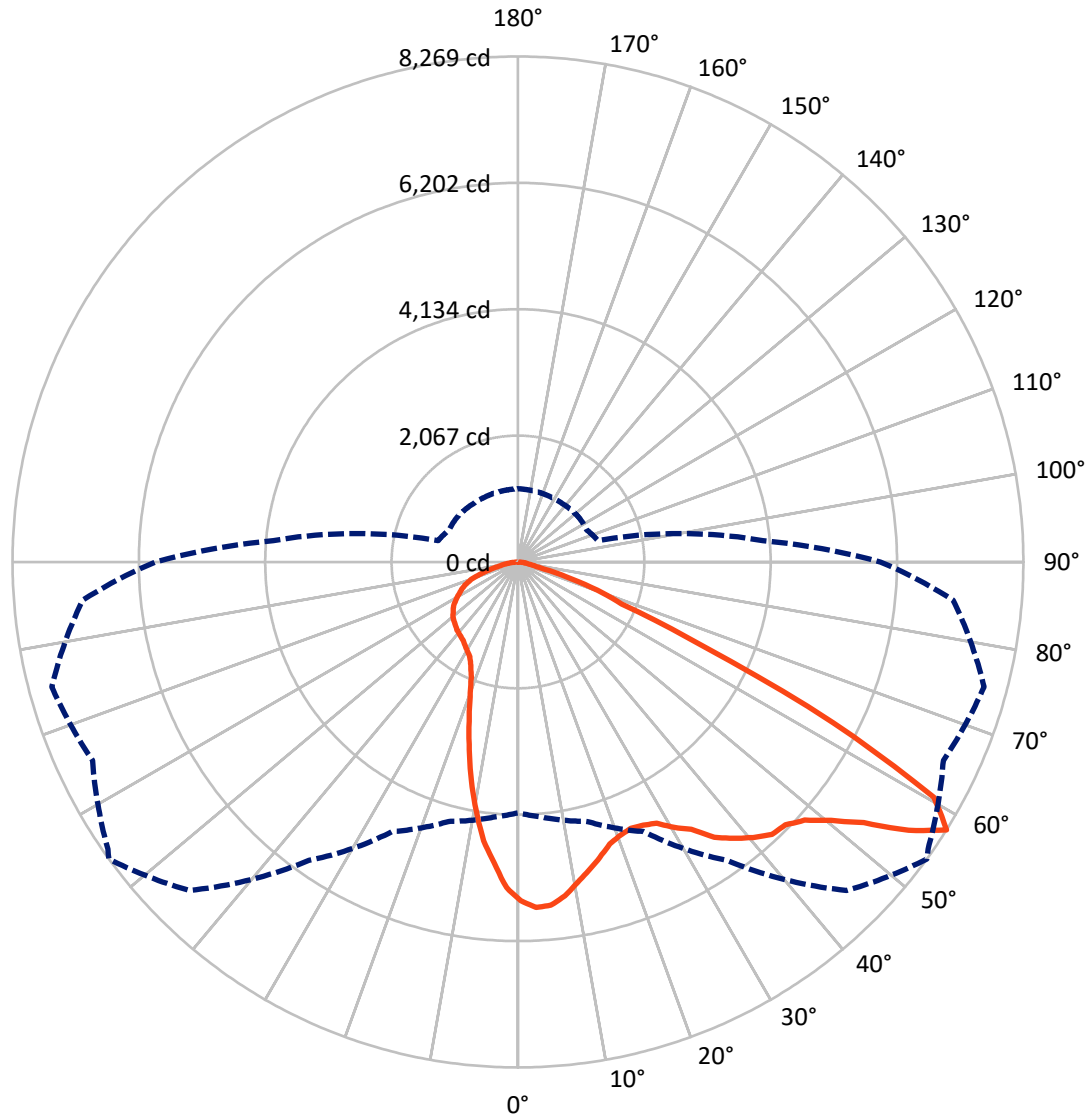
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P528910  
CATALOG NUMBER: GLAN-SA4A-735-U-SL3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P528910  
 CATALOG NUMBER: GLAN-SA4A-735-U-SL3-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3944.6   | 0.0    | 3944.6  |
|                    | % Fixture | 27.7     | 0.0    | 27.7    |
| <b>Street Side</b> | Lumens    | 10313.4  | 0.0    | 10313.4 |
|                    | % Fixture | 72.3     | 0.0    | 72.3    |
| <b>Total</b>       | Lumens    | 14258.0  | 0.0    | 14258.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 477.9   | 3.4       |
| 10°-20°   | 1106.6  | 7.8       |
| 20°-30°   | 1554.8  | 10.9      |
| 30°-40°   | 2173.6  | 15.2      |
| 40°-50°   | 2942.6  | 20.6      |
| 50°-60°   | 3584.3  | 25.1      |
| 60°-70°   | 1866.8  | 13.1      |
| 70°-80°   | 478.4   | 3.4       |
| 80°-90°   | 73.0    | 0.5       |
| 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°    | 14258.0 | 100.0     |
| 0°-180°   | 14258.0 | 100.0     |

**Coefficient of Utilization**



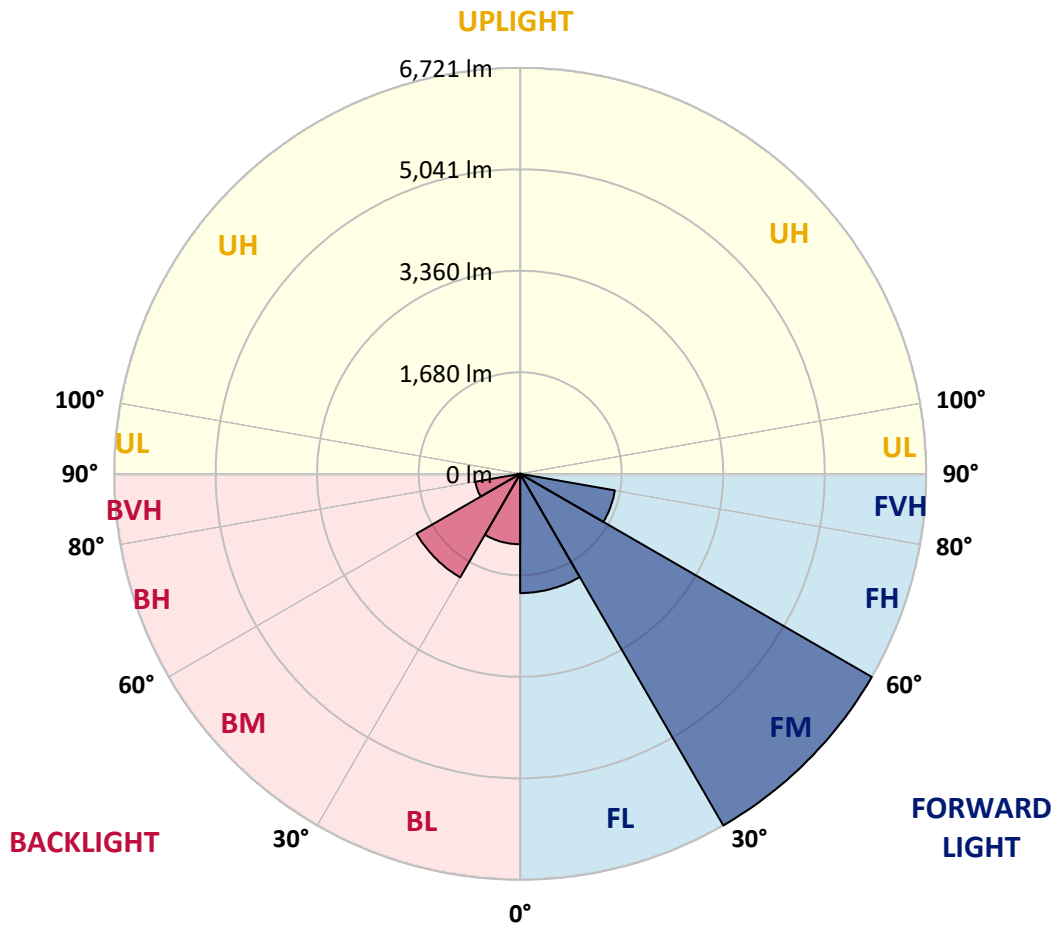
REPORT NUMBER: P528910  
 CATALOG NUMBER: GLAN-SA4A-735-U-SL3-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1973.5 | 13.8      |                         |      |         |
| FM (30°-60°)   | 6720.8 | 47.1      |                         |      |         |
| FH (60°-80°)   | 1591.6 | 11.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 27.6   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1165.8 | 8.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 1979.7 | 13.9      | B2/2500                 |      |         |
| BH (60°-80°)   | 753.6  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 45.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P528910

CATALOG NUMBER: GLAN-SA4A-735-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 |
| 2.5°  | 5699.5 | 5677.5 | 5681.2 | 5710.5 | 5673.9 | 5659.2 | 5659.2 | 5587.7 | 5593.2 | 5543.8 | 5530.9 |
| 5°    | 5567.6 | 5516.3 | 5551.1 | 5595.1 | 5602.4 | 5617.1 | 5640.9 | 5622.6 | 5571.2 | 5518.1 | 5432.0 |
| 7.5°  | 5223.0 | 5268.9 | 5281.7 | 5312.8 | 5378.8 | 5439.3 | 5514.4 | 5463.1 | 5461.3 | 5408.1 | 5356.8 |
| 10°   | 4920.7 | 4893.2 | 4962.8 | 5008.6 | 5118.6 | 5219.4 | 5334.8 | 5329.3 | 5356.8 | 5296.3 | 5208.4 |
| 12.5° | 4620.1 | 4598.1 | 4631.1 | 4735.6 | 4889.5 | 5036.1 | 5173.6 | 5122.2 | 5268.9 | 5257.9 | 5069.1 |
| 15°   | 4301.2 | 4317.7 | 4365.4 | 4462.5 | 4664.1 | 4840.0 | 5014.1 | 5016.0 | 5146.1 | 5190.1 | 4937.1 |
| 17.5° | 4077.6 | 4059.3 | 4119.8 | 4264.6 | 4444.2 | 4654.9 | 4852.8 | 4893.2 | 5092.9 | 5118.6 | 4896.8 |
| 20°   | 3910.9 | 3936.5 | 4015.3 | 4088.6 | 4295.7 | 4550.5 | 4774.0 | 4788.7 | 5081.9 | 5151.6 | 4832.7 |
| 22.5° | 3870.5 | 3855.9 | 3881.5 | 4000.7 | 4171.1 | 4447.8 | 4731.9 | 4786.9 | 5080.1 | 5140.6 | 4711.7 |
| 25°   | 3828.4 | 3876.0 | 3874.2 | 3993.3 | 4118.0 | 4365.4 | 4766.7 | 4827.2 | 5177.2 | 5197.4 | 4728.2 |
| 27.5° | 3923.7 | 3918.2 | 3969.5 | 3978.7 | 4132.6 | 4387.4 | 4840.0 | 4885.8 | 5338.5 | 5322.0 | 4741.1 |
| 30°   | 4019.0 | 3991.5 | 4022.7 | 4130.8 | 4202.3 | 4513.8 | 5041.6 | 5037.9 | 5547.4 | 5536.4 | 4781.4 |
| 32.5° | 4136.3 | 4123.5 | 4143.6 | 4238.9 | 4359.9 | 4682.4 | 5212.0 | 5320.2 | 5760.0 | 5829.6 | 4920.7 |
| 35°   | 4158.3 | 4211.4 | 4259.1 | 4387.4 | 4559.6 | 4955.5 | 5532.8 | 5622.6 | 6005.6 | 6223.7 | 5186.4 |
| 37.5° | 4297.6 | 4317.7 | 4429.5 | 4656.8 | 4814.4 | 5320.2 | 5736.2 | 5793.0 | 6229.2 | 6476.6 | 5466.8 |
| 40°   | 4446.0 | 4469.8 | 4638.4 | 4876.7 | 5092.9 | 5558.4 | 5926.8 | 5945.1 | 6300.6 | 6670.8 | 5650.0 |
| 42.5° | 4647.6 | 4669.6 | 4836.4 | 5135.1 | 5424.6 | 5761.8 | 6095.4 | 6115.5 | 6295.1 | 6894.4 | 5941.4 |
| 45°   | 4856.5 | 4909.7 | 5105.8 | 5444.8 | 5705.0 | 6000.1 | 6133.9 | 6216.3 | 6346.5 | 7094.2 | 6177.8 |
| 47.5° | 5149.7 | 5199.2 | 5360.5 | 5692.2 | 5996.4 | 6209.0 | 6311.6 | 6392.3 | 6469.2 | 7268.3 | 6330.0 |
| 50°   | 5461.3 | 5470.4 | 5666.5 | 5967.1 | 6190.7 | 6445.4 | 6643.3 | 6670.8 | 6630.5 | 7469.9 | 6588.4 |
| 52.5° | 5690.4 | 5719.7 | 5871.8 | 6165.0 | 6498.6 | 6811.9 | 7083.2 | 7112.5 | 7033.7 | 7545.0 | 6676.3 |
| 55°   | 5311.0 | 5294.5 | 5541.9 | 5932.3 | 6705.7 | 7358.1 | 7752.1 | 7774.1 | 7326.9 | 7777.7 | 6964.1 |
| 57.5° | 4105.1 | 4183.9 | 4394.7 | 4865.7 | 5957.9 | 7600.0 | 8268.9 | 8190.1 | 7678.8 | 7895.0 | 7147.3 |
| 60°   | 2983.5 | 2965.2 | 3106.3 | 3421.5 | 4490.0 | 6549.9 | 7818.1 | 7898.7 | 7391.1 | 7116.2 | 5893.8 |
| 62.5° | 2430.1 | 2404.4 | 2415.4 | 2426.4 | 2897.4 | 4347.0 | 5787.5 | 5785.7 | 5692.2 | 5114.9 | 3975.0 |
| 65°   | 1942.6 | 2003.1 | 2008.6 | 2091.0 | 2151.5 | 2596.9 | 3353.7 | 3533.3 | 3077.0 | 2523.6 | 1830.8 |
| 67.5° | 1464.3 | 1442.3 | 1515.6 | 1808.8 | 1922.4 | 1874.8 | 1830.8 | 1851.0 | 1315.8 | 949.3  | 894.3  |
| 70°   | 863.2  | 854.0  | 942.0  | 1260.9 | 1583.4 | 1489.9 | 1380.0 | 1381.8 | 903.5  | 663.4  | 738.6  |
| 72.5° | 472.8  | 471.0  | 489.3  | 639.6  | 899.8  | 934.6  | 828.4  | 854.0  | 538.8  | 537.0  | 577.3  |
| 75°   | 263.9  | 258.4  | 252.9  | 282.2  | 324.4  | 342.7  | 350.0  | 353.7  | 370.2  | 414.2  | 430.7  |
| 77.5° | 97.1   | 93.5   | 93.5   | 108.1  | 137.4  | 172.3  | 218.1  | 221.8  | 262.1  | 300.6  | 317.0  |
| 80°   | 33.0   | 36.7   | 49.5   | 67.8   | 91.6   | 122.8  | 148.4  | 152.1  | 185.1  | 210.8  | 216.3  |
| 82.5° | 20.2   | 22.0   | 33.0   | 47.6   | 66.0   | 86.1   | 110.0  | 111.8  | 137.4  | 153.9  | 161.3  |
| 85°   | 9.2    | 11.0   | 18.3   | 29.3   | 42.2   | 56.8   | 58.6   | 58.6   | 56.8   | 58.6   | 55.0   |
| 87.5° | 0.0    | 0.0    | 3.7    | 3.7    | 3.7    | 5.5    | 7.3    | 5.5    | 9.2    | 11.0   | 11.0   |
| 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: P528910

CATALOG NUMBER: GLAN-SA4A-735-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 | 5541.9 |
| 2.5°  | 5492.4 | 5472.3 | 5410.0 | 5355.0 | 5338.5 | 5265.2 | 5157.1 | 5169.9 | 5091.1 | 5127.7 | 5089.3 |
| 5°    | 5417.3 | 5349.5 | 5190.1 | 5122.2 | 4944.5 | 4863.8 | 4808.9 | 4671.4 | 4607.3 | 4594.4 | 4539.5 |
| 7.5°  | 5224.9 | 5182.7 | 4983.0 | 4799.7 | 4610.9 | 4449.7 | 4242.6 | 4101.5 | 4000.7 | 3973.2 | 3892.5 |
| 10°   | 5072.8 | 4979.3 | 4702.6 | 4424.0 | 4154.6 | 3874.2 | 3604.8 | 3394.1 | 3291.4 | 3172.3 | 3132.0 |
| 12.5° | 4922.5 | 4781.4 | 4407.5 | 4050.1 | 3701.9 | 3348.2 | 3022.0 | 2765.5 | 2541.9 | 2488.7 | 2470.4 |
| 15°   | 4829.0 | 4583.4 | 4143.6 | 3712.9 | 3218.1 | 2756.3 | 2430.1 | 2261.5 | 2124.0 | 2067.2 | 2107.5 |
| 17.5° | 4706.2 | 4420.3 | 3890.7 | 3317.1 | 2772.8 | 2347.6 | 2074.6 | 1970.1 | 1920.6 | 1926.1 | 1909.6 |
| 20°   | 4552.3 | 4266.4 | 3559.0 | 2957.9 | 2375.1 | 2036.1 | 1880.3 | 1841.8 | 1849.1 | 1862.0 | 1856.5 |
| 22.5° | 4442.3 | 4079.5 | 3318.9 | 2591.4 | 2052.6 | 1863.8 | 1799.7 | 1772.2 | 1796.0 | 1807.0 | 1797.8 |
| 25°   | 4358.0 | 3920.0 | 3027.5 | 2267.0 | 1865.6 | 1766.7 | 1737.3 | 1735.5 | 1772.2 | 1786.8 | 1777.7 |
| 27.5° | 4281.1 | 3771.6 | 2738.0 | 2019.6 | 1741.0 | 1691.5 | 1682.4 | 1704.4 | 1728.2 | 1742.8 | 1755.7 |
| 30°   | 4235.2 | 3658.0 | 2466.7 | 1812.5 | 1678.7 | 1654.9 | 1638.4 | 1658.5 | 1671.4 | 1686.0 | 1678.7 |
| 32.5° | 4279.2 | 3577.3 | 2204.7 | 1695.2 | 1627.4 | 1603.6 | 1625.6 | 1612.7 | 1634.7 | 1647.5 | 1627.4 |
| 35°   | 4416.7 | 3505.9 | 2017.7 | 1632.9 | 1568.7 | 1577.9 | 1581.6 | 1576.1 | 1585.2 | 1574.2 | 1598.1 |
| 37.5° | 4552.3 | 3480.2 | 1845.5 | 1579.7 | 1541.3 | 1541.3 | 1537.6 | 1526.6 | 1544.9 | 1541.3 | 1552.3 |
| 40°   | 4724.6 | 3496.7 | 1698.9 | 1522.9 | 1515.6 | 1511.9 | 1497.3 | 1495.4 | 1488.1 | 1489.9 | 1493.6 |
| 42.5° | 4874.8 | 3533.3 | 1614.6 | 1486.3 | 1491.8 | 1499.1 | 1471.6 | 1449.6 | 1458.8 | 1440.5 | 1440.5 |
| 45°   | 5034.3 | 3566.3 | 1539.4 | 1460.6 | 1455.1 | 1453.3 | 1431.3 | 1418.5 | 1411.1 | 1413.0 | 1429.5 |
| 47.5° | 5285.4 | 3614.0 | 1482.6 | 1425.8 | 1429.5 | 1402.0 | 1396.5 | 1380.0 | 1387.3 | 1398.3 | 1400.1 |
| 50°   | 5463.1 | 3714.8 | 1438.6 | 1385.5 | 1398.3 | 1380.0 | 1347.0 | 1339.7 | 1339.7 | 1358.0 | 1354.3 |
| 52.5° | 5587.7 | 3855.9 | 1396.5 | 1341.5 | 1347.0 | 1332.3 | 1321.3 | 1304.8 | 1293.8 | 1319.5 | 1332.3 |
| 55°   | 5968.9 | 4090.5 | 1385.5 | 1304.8 | 1303.0 | 1288.4 | 1268.2 | 1251.7 | 1246.2 | 1249.9 | 1275.5 |
| 57.5° | 5932.3 | 4017.2 | 1350.7 | 1240.7 | 1237.0 | 1216.9 | 1196.7 | 1191.2 | 1189.4 | 1193.1 | 1200.4 |
| 60°   | 4816.2 | 2967.1 | 1205.9 | 1167.4 | 1161.9 | 1158.2 | 1138.1 | 1116.1 | 1105.1 | 1116.1 | 1106.9 |
| 62.5° | 3187.0 | 1986.6 | 1062.9 | 1079.4 | 1083.1 | 1073.9 | 1040.9 | 1019.0 | 1022.6 | 1035.4 | 1015.3 |
| 65°   | 1565.1 | 1167.4 | 964.0  | 1008.0 | 1011.6 | 986.0  | 954.8  | 929.2  | 916.3  | 927.3  | 918.2  |
| 67.5° | 894.3  | 892.5  | 883.3  | 929.2  | 927.3  | 901.7  | 852.2  | 830.2  | 808.2  | 811.9  | 806.4  |
| 70°   | 758.7  | 773.4  | 791.7  | 819.2  | 817.4  | 788.0  | 729.4  | 712.9  | 681.7  | 678.1  | 668.9  |
| 72.5° | 597.4  | 623.1  | 663.4  | 683.6  | 667.1  | 630.4  | 591.9  | 564.5  | 537.0  | 520.5  | 526.0  |
| 75°   | 443.5  | 480.2  | 502.1  | 515.0  | 489.3  | 469.2  | 438.0  | 405.0  | 372.0  | 357.4  | 351.9  |
| 77.5° | 322.5  | 333.5  | 353.7  | 362.9  | 346.4  | 326.2  | 307.9  | 274.9  | 243.7  | 223.6  | 218.1  |
| 80°   | 225.4  | 232.7  | 247.4  | 247.4  | 247.4  | 238.2  | 214.4  | 181.4  | 161.3  | 142.9  | 139.3  |
| 82.5° | 157.6  | 164.9  | 179.6  | 172.3  | 170.4  | 159.4  | 144.8  | 119.1  | 97.1   | 84.3   | 80.6   |
| 85°   | 55.0   | 60.5   | 73.3   | 88.0   | 93.5   | 91.6   | 82.5   | 66.0   | 51.3   | 42.2   | 38.5   |
| 87.5° | 12.8   | 12.8   | 14.7   | 12.8   | 12.8   | 14.7   | 12.8   | 12.8   | 12.8   | 9.2    | 7.3    |
| 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)