

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: P455782

Luminaire Tested: **GLAN-SA7A-727-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-727-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27260 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

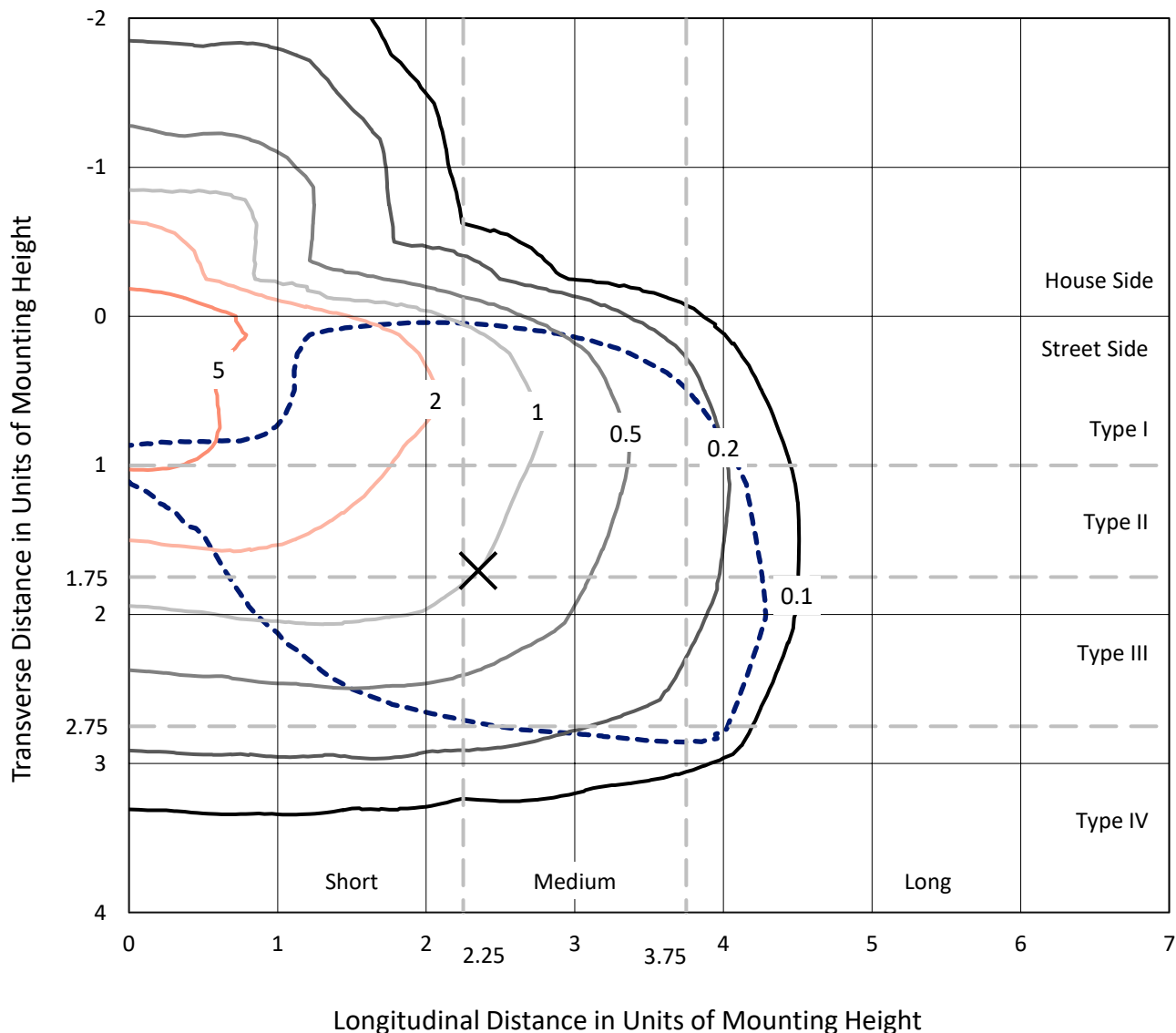
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455782  
 CATALOG NUMBER: GLAN-SA7A-727-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

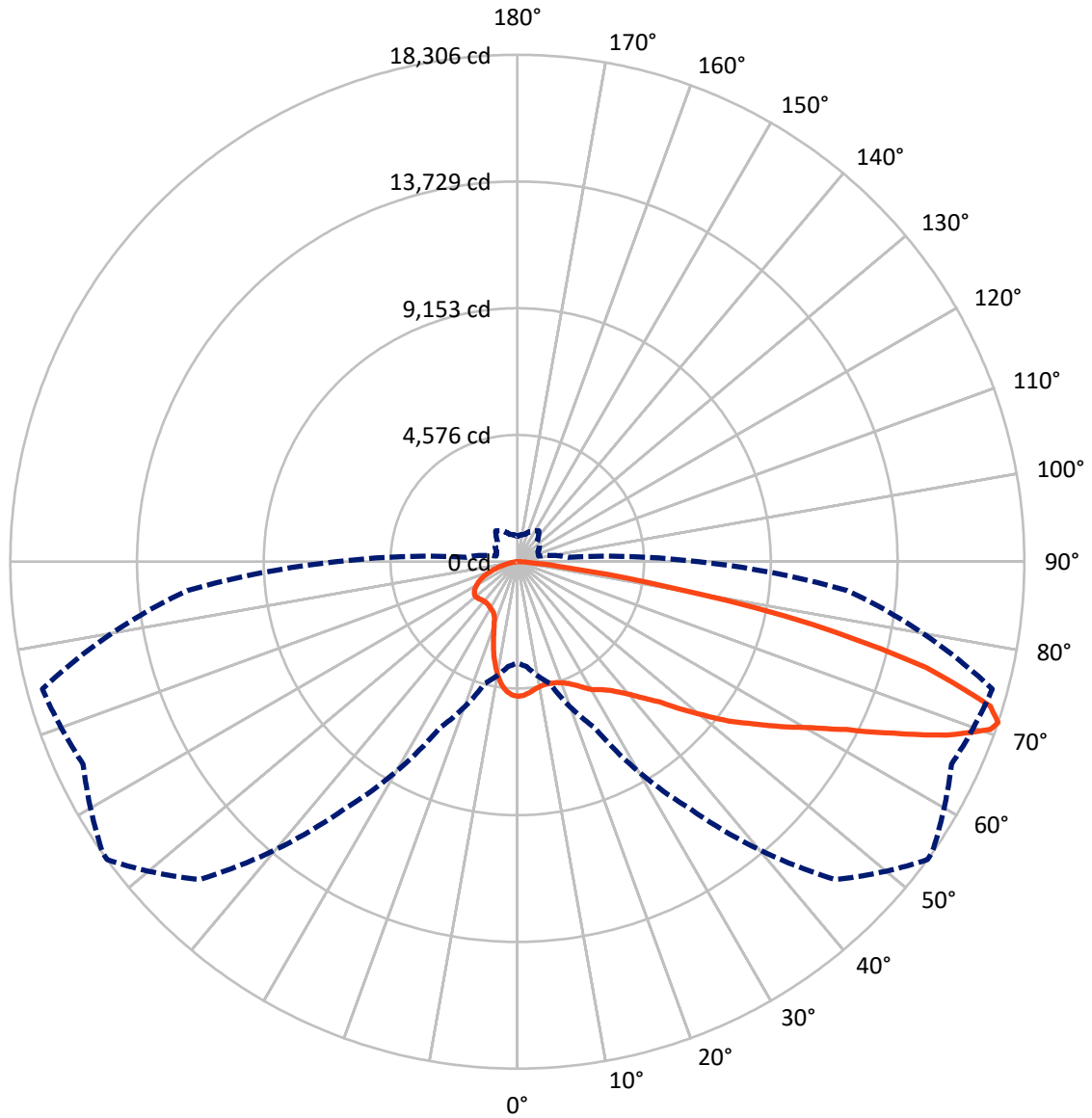
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P455782  
CATALOG NUMBER: GLAN-SA7A-727-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P455782

CATALOG NUMBER: GLAN-SA7A-727-U-T3R

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4921.6   | 0.0    | 4921.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 22338.4  | 0.0    | 22338.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 27260.0  | 0.0    | 27260.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 433.4   | 1.6       |
| 10°-20°   | 1144.4  | 4.2       |
| 20°-30°   | 1905.5  | 7.0       |
| 30°-40°   | 2817.7  | 10.3      |
| 40°-50°   | 3968.8  | 14.6      |
| 50°-60°   | 5314.4  | 19.5      |
| 60°-70°   | 6698.4  | 24.6      |
| 70°-80°   | 4575.0  | 16.8      |
| 80°-90°   | 402.3   | 1.5       |
| 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°    | 27260.0 | 100.0     |
| 0°-180°   | 27260.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P455782

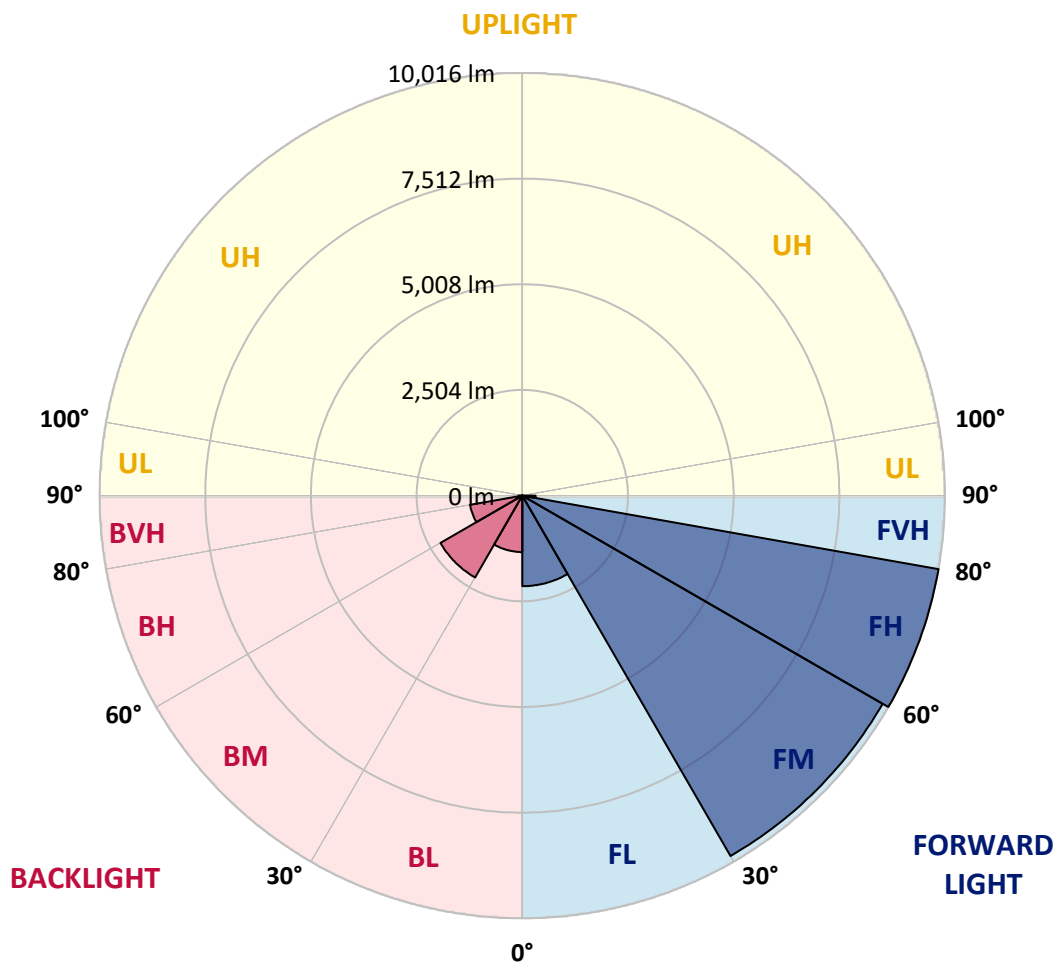
CATALOG NUMBER: GLAN-SA7A-727-U-T3R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2145.8  | 7.9       |                         |      |          |
| FM   | (30°-60°)   | 9861.7  | 36.2      |                         |      |          |
| FH   | (60°-80°)   | 10016.4 | 36.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 314.5   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1337.6  | 4.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2239.2  | 8.2       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1257.0  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 87.8    | 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-G4**

Type IV Medium





REPORT NUMBER: P455782

CATALOG NUMBER: GLAN-SA7A-727-U-T3R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4863.6 | 4863.6 | 4863.6 | 4863.6  | 4863.6  | 4863.6  | 4863.6  | 4863.6  | 4863.6  | 4863.6  | 4863.6  |
| 2.5°  | 4698.7 | 4720.8 | 4726.6 | 4741.4  | 4772.3  | 4797.3  | 4822.4  | 4819.4  | 4854.8  | 4869.5  | 4882.7  |
| 5°    | 4489.6 | 4495.5 | 4517.6 | 4547.0  | 4601.5  | 4670.7  | 4738.4  | 4739.9  | 4826.8  | 4896.0  | 4929.8  |
| 7.5°  | 4336.4 | 4355.6 | 4370.3 | 4401.2  | 4458.7  | 4533.8  | 4641.2  | 4650.1  | 4804.7  | 4941.6  | 5013.8  |
| 10°   | 4236.3 | 4258.4 | 4274.6 | 4312.9  | 4370.3  | 4454.2  | 4570.6  | 4586.8  | 4788.5  | 5013.8  | 5140.4  |
| 12.5° | 4145.0 | 4167.1 | 4181.8 | 4231.9  | 4307.0  | 4410.1  | 4541.1  | 4560.3  | 4794.4  | 5097.7  | 5278.8  |
| 15°   | 4201.0 | 4218.6 | 4212.8 | 4227.5  | 4277.5  | 4395.3  | 4552.9  | 4572.0  | 4816.5  | 5178.7  | 5415.8  |
| 17.5° | 4449.8 | 4464.5 | 4416.0 | 4360.0  | 4336.4  | 4423.3  | 4589.7  | 4610.3  | 4860.6  | 5262.6  | 5555.7  |
| 20°   | 4816.5 | 4856.2 | 4750.2 | 4625.0  | 4511.7  | 4523.4  | 4666.3  | 4688.4  | 4922.5  | 5346.6  | 5698.5  |
| 22.5° | 5293.6 | 5323.0 | 5193.4 | 4987.3  | 4778.2  | 4670.7  | 4781.1  | 4794.4  | 5015.3  | 5455.5  | 5854.6  |
| 25°   | 5854.6 | 5872.2 | 5692.6 | 5427.5  | 5125.7  | 4922.5  | 4938.7  | 4962.2  | 5168.4  | 5579.2  | 5993.0  |
| 27.5° | 6399.4 | 6455.3 | 6247.7 | 5923.8  | 5526.2  | 5187.5  | 5155.1  | 5169.9  | 5334.8  | 5648.4  | 6088.7  |
| 30°   | 7045.8 | 7041.4 | 6822.0 | 6446.5  | 5937.0  | 5476.1  | 5359.8  | 5356.9  | 5424.6  | 5682.3  | 6157.9  |
| 32.5° | 7561.2 | 7621.5 | 7406.6 | 6997.2  | 6406.7  | 5775.1  | 5501.2  | 5495.3  | 5493.8  | 5741.2  | 6261.0  |
| 35°   | 8147.2 | 8156.0 | 7958.7 | 7546.4  | 6914.7  | 6150.5  | 5698.5  | 5669.0  | 5635.2  | 5867.8  | 6400.9  |
| 37.5° | 8671.4 | 8712.6 | 8531.5 | 8069.2  | 7413.9  | 6540.7  | 5969.4  | 5950.3  | 5847.2  | 6087.2  | 6624.7  |
| 40°   | 9080.8 | 9111.7 | 9002.7 | 8562.4  | 7905.7  | 6961.9  | 6314.0  | 6278.6  | 6153.5  | 6446.5  | 6923.6  |
| 42.5° | 9214.8 | 9278.1 | 9320.8 | 9104.3  | 8471.2  | 7461.0  | 6738.0  | 6693.9  | 6598.2  | 6991.3  | 7268.1  |
| 45°   | 9225.1 | 9325.2 | 9550.5 | 9560.8  | 9039.5  | 8058.9  | 7232.8  | 7201.9  | 7194.5  | 7689.3  | 7752.6  |
| 47.5° | 9147.0 | 9248.6 | 9627.0 | 9831.7  | 9546.1  | 8662.6  | 7947.0  | 7898.4  | 7902.8  | 8552.1  | 8295.9  |
| 50°   | 8958.5 | 9079.3 | 9538.7 | 10005.5 | 9942.2  | 9289.8  | 8700.9  | 8684.7  | 8776.0  | 9537.2  | 8859.9  |
| 52.5° | 8603.7 | 8749.5 | 9447.4 | 10114.4 | 10236.7 | 9830.2  | 9557.8  | 9512.2  | 9743.4  | 10606.2 | 9476.9  |
| 55°   | 7621.5 | 7840.9 | 9113.2 | 10174.8 | 10516.4 | 10347.1 | 10329.4 | 10411.9 | 10718.2 | 11772.4 | 10155.7 |
| 57.5° | 7109.1 | 7274.0 | 8387.2 | 10185.1 | 10869.8 | 10947.9 | 11230.6 | 11251.2 | 11787.2 | 13010.8 | 10922.8 |
| 60°   | 6829.3 | 6975.1 | 7989.7 | 10117.4 | 11363.1 | 11691.5 | 12152.3 | 12226.0 | 12831.2 | 14352.2 | 11718.0 |
| 62.5° | 6584.9 | 6710.1 | 7751.1 | 9883.3  | 11919.7 | 12794.3 | 13346.5 | 13381.9 | 14016.5 | 15833.5 | 12502.8 |
| 65°   | 6009.2 | 6152.0 | 7271.1 | 9649.1  | 12399.7 | 14172.6 | 14930.9 | 14889.7 | 15278.4 | 17111.6 | 12994.6 |
| 67.5° | 5233.2 | 5414.3 | 6374.3 | 8840.7  | 12636.8 | 15678.9 | 16715.5 | 16664.0 | 16524.1 | 17949.5 | 13136.0 |
| 70°   | 4242.2 | 4339.4 | 5227.3 | 7443.4  | 11690.0 | 16469.6 | 18124.7 | 18070.2 | 17295.7 | 18059.9 | 12467.5 |
| 71°   | 3650.3 | 3801.9 | 4551.4 | 6611.4  | 10902.2 | 16228.2 | 18305.8 | 18291.1 | 17297.2 | 17755.1 | 11963.9 |
| 72.5° | 2849.2 | 2942.0 | 3604.6 | 5122.7  | 9266.3  | 14855.8 | 17858.2 | 17914.1 | 16921.7 | 16908.4 | 10925.8 |
| 75°   | 1802.3 | 1843.5 | 2261.7 | 3015.6  | 5084.5  | 10520.8 | 15244.5 | 15396.2 | 15025.1 | 13839.8 | 8125.1  |
| 77.5° | 1046.9 | 1099.9 | 1354.7 | 1777.3  | 2196.9  | 5710.3  | 10908.1 | 11073.0 | 10439.9 | 7620.1  | 3326.3  |
| 80°   | 609.6  | 668.5  | 892.3  | 1032.2  | 1008.6  | 2118.9  | 5554.2  | 5835.4  | 4520.5  | 1924.5  | 933.5   |
| 82.5° | 338.7  | 378.4  | 627.3  | 628.7   | 537.5   | 692.1   | 1747.8  | 1828.8  | 1289.9  | 776.0   | 381.4   |
| 85°   | 245.9  | 278.3  | 404.9  | 366.6   | 257.7   | 297.4   | 608.1   | 637.6   | 521.3   | 326.9   | 123.7   |
| 87.5° | 86.9   | 123.7  | 222.3  | 176.7   | 70.7    | 61.8    | 175.2   | 142.8   | 132.5   | 91.3    | 28.0    |
| 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: P455782  
 CATALOG NUMBER: GLAN-SA7A-727-U-T3R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 | 4863.6 |
| 2.5°  | 4890.1 | 4893.0 | 4878.3 | 4851.8 | 4825.3 | 4791.4 | 4753.2 | 4723.7 | 4710.5 | 4709.0 | 4707.5 |
| 5°    | 4943.1 | 4950.5 | 4894.5 | 4812.1 | 4720.8 | 4608.8 | 4513.1 | 4404.2 | 4376.2 | 4332.0 | 4345.3 |
| 7.5°  | 5028.5 | 5024.1 | 4913.7 | 4738.4 | 4524.9 | 4287.8 | 4087.6 | 3971.3 | 3850.5 | 3816.7 | 3818.1 |
| 10°   | 5150.7 | 5122.7 | 4913.7 | 4588.2 | 4231.9 | 3880.0 | 3600.2 | 3423.5 | 3327.8 | 3248.3 | 3218.8 |
| 12.5° | 5280.3 | 5209.6 | 4866.5 | 4377.7 | 3854.9 | 3423.5 | 3123.1 | 2884.6 | 2822.7 | 2757.9 | 2759.4 |
| 15°   | 5404.0 | 5286.2 | 4773.8 | 4081.7 | 3448.5 | 2936.1 | 2644.6 | 2501.7 | 2482.6 | 2490.0 | 2488.5 |
| 17.5° | 5515.9 | 5340.7 | 4632.4 | 3751.9 | 2974.4 | 2517.9 | 2363.3 | 2373.6 | 2425.2 | 2462.0 | 2466.4 |
| 20°   | 5629.3 | 5373.1 | 4421.8 | 3310.1 | 2526.8 | 2264.7 | 2270.6 | 2351.5 | 2429.6 | 2479.6 | 2487.0 |
| 22.5° | 5736.8 | 5387.8 | 4174.5 | 2883.1 | 2202.8 | 2157.2 | 2244.1 | 2330.9 | 2407.5 | 2456.1 | 2463.5 |
| 25°   | 5807.4 | 5353.9 | 3824.0 | 2436.9 | 2043.8 | 2118.9 | 2210.2 | 2283.8 | 2348.6 | 2398.7 | 2410.4 |
| 27.5° | 5826.6 | 5245.0 | 3389.6 | 2076.2 | 1970.2 | 2082.1 | 2166.0 | 2220.5 | 2270.6 | 2317.7 | 2326.5 |
| 30°   | 5816.3 | 5084.5 | 2912.6 | 1864.2 | 1927.5 | 2039.4 | 2104.2 | 2143.9 | 2204.3 | 2241.1 | 2248.5 |
| 32.5° | 5800.1 | 4897.5 | 2414.9 | 1750.8 | 1892.1 | 1999.6 | 2037.9 | 2073.2 | 2071.8 | 2057.0 | 2067.4 |
| 35°   | 5806.0 | 4673.6 | 2011.4 | 1683.0 | 1861.2 | 1970.2 | 2002.6 | 1958.4 | 1831.8 | 1825.9 | 1820.0 |
| 37.5° | 5836.9 | 4452.8 | 1718.4 | 1635.9 | 1845.0 | 1965.8 | 1983.4 | 1780.2 | 1668.3 | 1616.8 | 1603.5 |
| 40°   | 5916.4 | 4195.1 | 1525.5 | 1600.6 | 1843.5 | 1999.6 | 1896.5 | 1690.4 | 1475.4 | 1375.3 | 1367.9 |
| 42.5° | 6022.4 | 3941.8 | 1407.7 | 1578.5 | 1861.2 | 2051.2 | 1861.2 | 1563.8 | 1329.6 | 1270.7 | 1261.9 |
| 45°   | 6180.0 | 3651.7 | 1342.9 | 1568.2 | 1887.7 | 2070.3 | 1849.4 | 1471.0 | 1270.7 | 1223.6 | 1223.6 |
| 47.5° | 6358.2 | 3374.9 | 1307.6 | 1560.8 | 1921.6 | 2057.0 | 1744.9 | 1441.6 | 1242.8 | 1248.7 | 1276.6 |
| 50°   | 6534.8 | 3134.9 | 1281.1 | 1544.6 | 1951.0 | 2049.7 | 1702.2 | 1440.1 | 1250.1 | 1325.2 | 1375.3 |
| 52.5° | 6739.5 | 2965.6 | 1248.7 | 1518.1 | 1951.0 | 2002.6 | 1688.9 | 1469.5 | 1270.7 | 1292.8 | 1314.9 |
| 55°   | 6986.9 | 2912.6 | 1207.4 | 1460.7 | 1915.7 | 1884.8 | 1681.6 | 1512.2 | 1285.5 | 1233.9 | 1242.8 |
| 57.5° | 7313.8 | 2998.0 | 1167.7 | 1388.5 | 1834.7 | 1762.6 | 1678.6 | 1524.0 | 1251.6 | 1208.9 | 1200.1 |
| 60°   | 7693.7 | 3167.3 | 1155.9 | 1314.9 | 1724.3 | 1658.0 | 1661.0 | 1490.1 | 1204.5 | 1160.3 | 1167.7 |
| 62.5° | 7960.2 | 3268.9 | 1148.5 | 1259.0 | 1603.5 | 1543.2 | 1618.3 | 1448.9 | 1183.9 | 1145.6 | 1152.9 |
| 65°   | 7960.2 | 3145.2 | 1080.8 | 1173.6 | 1447.4 | 1404.7 | 1566.7 | 1397.4 | 1157.4 | 1113.2 | 1105.8 |
| 67.5° | 7658.3 | 2784.5 | 977.7  | 1045.5 | 1275.2 | 1247.2 | 1494.6 | 1335.5 | 1117.6 | 1083.7 | 1066.1 |
| 70°   | 6872.0 | 2111.5 | 848.1  | 895.3  | 1057.2 | 1082.3 | 1401.8 | 1251.6 | 1051.3 | 1010.1 | 983.6  |
| 71°   | 6526.0 | 1839.1 | 793.7  | 818.7  | 973.3  | 1010.1 | 1357.6 | 1216.3 | 1021.9 | 963.0  | 915.9  |
| 72.5° | 5859.0 | 1549.0 | 711.2  | 721.5  | 831.9  | 898.2  | 1264.9 | 1148.5 | 965.9  | 882.0  | 829.0  |
| 75°   | 4451.3 | 1130.9 | 572.8  | 566.9  | 615.5  | 712.7  | 1070.5 | 1023.4 | 846.7  | 733.3  | 702.4  |
| 77.5° | 1923.1 | 615.5  | 428.5  | 432.9  | 418.2  | 540.4  | 842.3  | 879.1  | 725.9  | 596.4  | 568.4  |
| 80°   | 583.1  | 354.9  | 293.0  | 298.9  | 279.8  | 362.2  | 593.4  | 689.1  | 583.1  | 463.8  | 425.5  |
| 82.5° | 298.9  | 212.0  | 200.3  | 197.3  | 178.2  | 204.7  | 359.3  | 471.2  | 416.7  | 290.1  | 256.2  |
| 85°   | 129.6  | 113.4  | 98.7   | 95.7   | 83.9   | 73.6   | 128.1  | 235.6  | 220.9  | 162.0  | 154.6  |
| 87.5° | 32.4   | 29.4   | 19.1   | 17.7   | 10.3   | 1.5    | 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)