

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: P532803

Luminaire Tested: **GLAN-SA8B-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532803  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-722-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25197 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

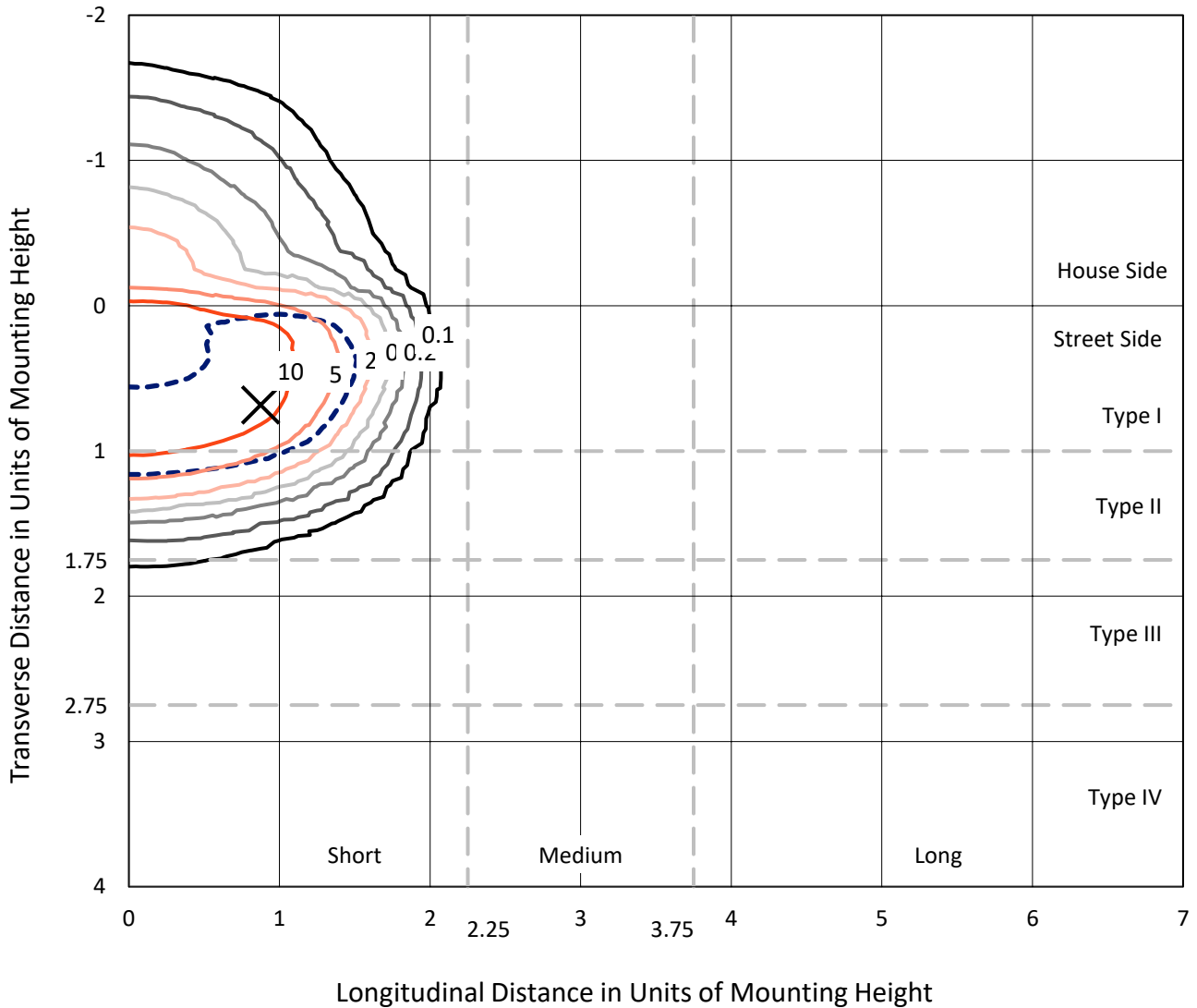
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

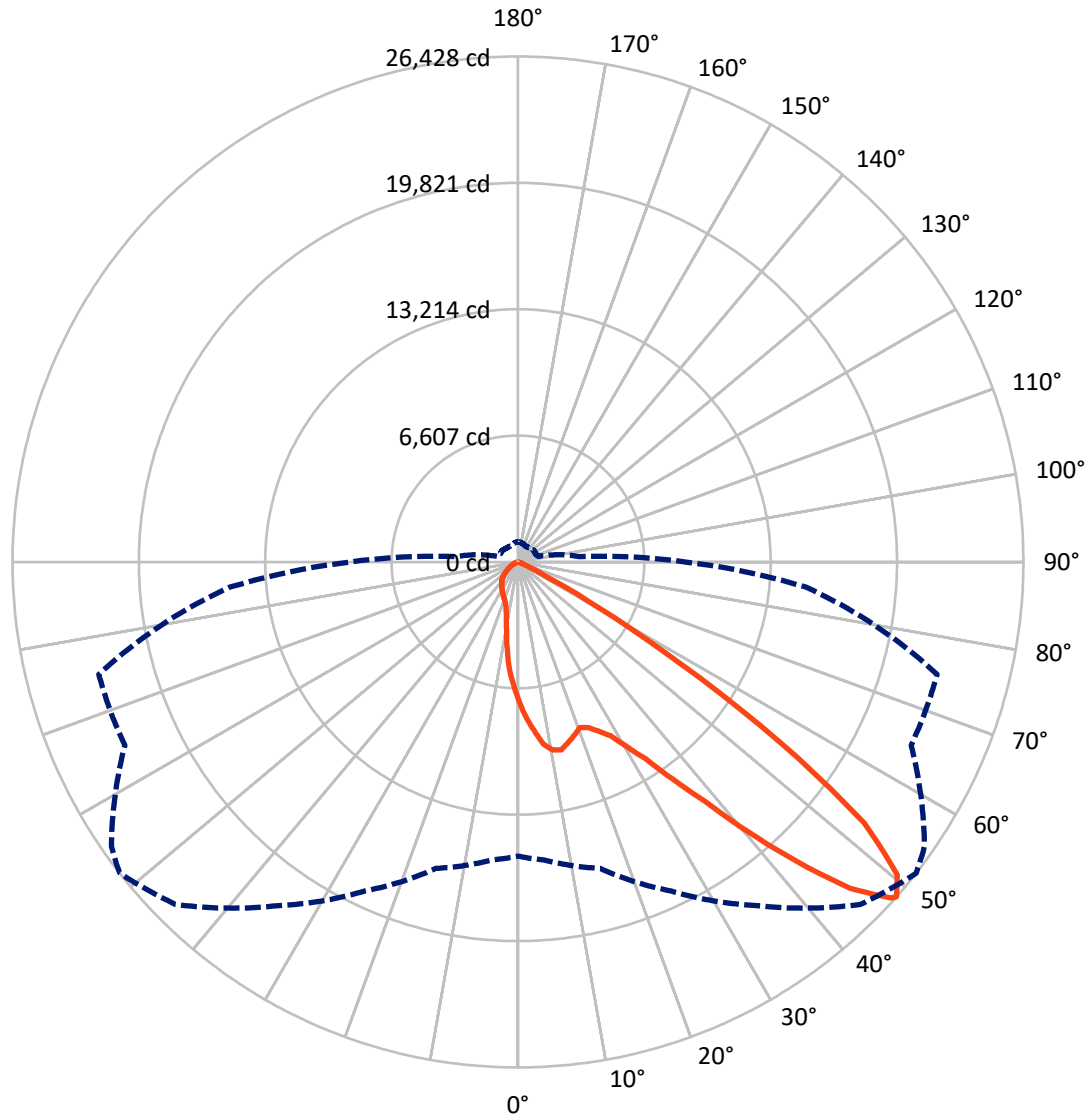
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P532803  
CATALOG NUMBER: GLAN-SA8B-722-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P532803

CATALOG NUMBER: GLAN-SA8B-722-U-AFL-GRSBK

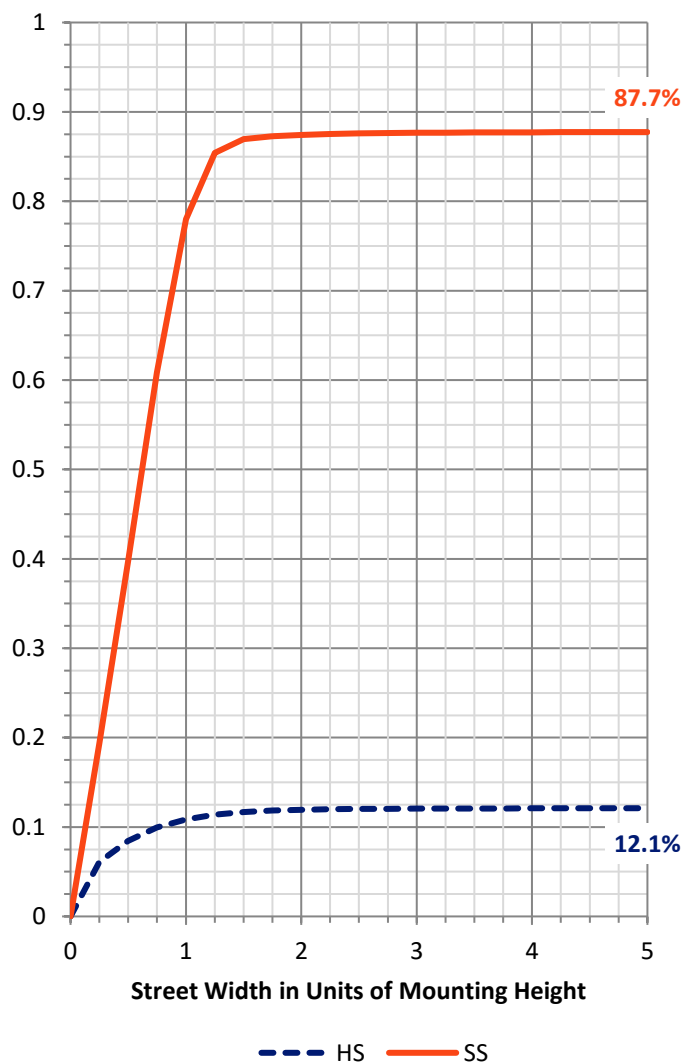
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3067.9   | 0.0    | 3067.9  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 22129.1  | 0.0    | 22129.1 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 25197.0  | 0.0    | 25197.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 666.0   | 2.6       |
| 10°-20°   | 1740.5  | 6.9       |
| 20°-30°   | 2971.8  | 11.8      |
| 30°-40°   | 5472.5  | 21.7      |
| 40°-50°   | 8498.8  | 33.7      |
| 50°-60°   | 5114.8  | 20.3      |
| 60°-70°   | 591.6   | 2.3       |
| 70°-80°   | 114.5   | 0.5       |
| 80°-90°   | 26.5    | 0.1       |
| 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°    | 25197.0 | 100.0     |
| 0°-180°   | 25197.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P532803

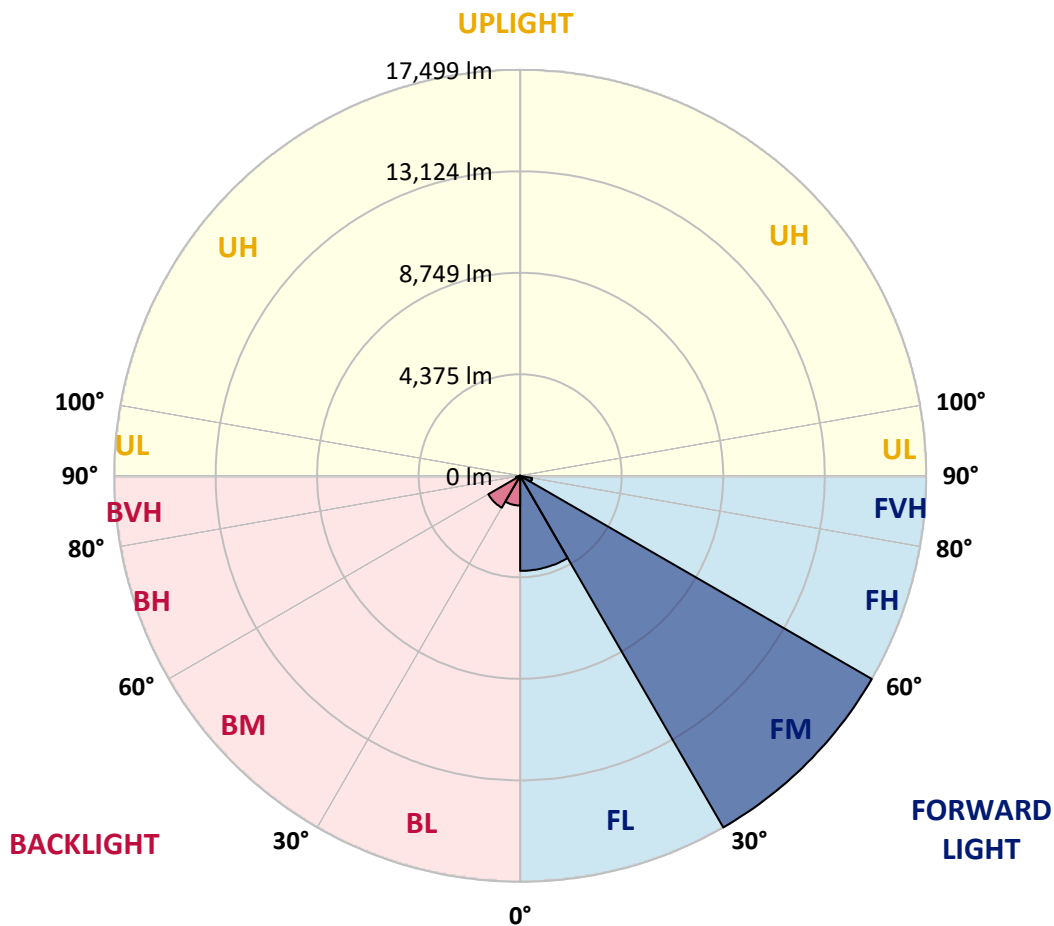
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 4096.7  | 16.3      |                         |      |        |
| FM (30°-60°)   | 17498.8 | 69.4      |                         |      |        |
| FH (60°-80°)   | 520.9   | 2.1       |                         |      | G0/660 |
| FVH (80°-90°)  | 12.6    | 0.0       |                         |      | G1/100 |
| BL (0°-30°)    | 1281.6  | 5.1       | B3/2500                 |      |        |
| BM (30°-60°)   | 1587.3  | 6.3       | B2/2500                 |      |        |
| BH (60°-80°)   | 185.2   | 0.7       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 13.9    | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G1**

Type II Short





REPORT NUMBER: P532803

CATALOG NUMBER: GLAN-SA8B-722-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  | 7276.5  |
| 2.5°  | 8819.2  | 8617.2  | 8635.5  | 8503.3  | 8426.2  | 8301.3  | 8132.3  | 8099.3  | 7915.6  | 7665.8  | 7412.4  |
| 5°    | 9612.6  | 9564.8  | 9627.3  | 9436.3  | 9443.6  | 9237.9  | 8841.2  | 8848.6  | 8426.2  | 8018.4  | 7625.4  |
| 7.5°  | 9664.0  | 9553.8  | 9616.3  | 9785.2  | 9884.4  | 9847.7  | 9623.6  | 9428.9  | 9028.6  | 8429.8  | 7856.8  |
| 10°   | 8653.9  | 8863.3  | 8929.4  | 9208.5  | 9605.2  | 10024.0 | 9998.3  | 10009.3 | 9675.0  | 8892.7  | 8055.2  |
| 12.5° | 8047.8  | 7908.3  | 8132.3  | 8301.3  | 8900.0  | 9711.8  | 10082.7 | 10163.6 | 10189.3 | 9340.8  | 8253.5  |
| 15°   | 7772.3  | 7772.3  | 7809.1  | 7856.8  | 8290.3  | 9039.6  | 9796.2  | 10031.3 | 10586.0 | 9928.5  | 8565.7  |
| 17.5° | 7945.0  | 7937.6  | 7989.1  | 7889.9  | 8051.5  | 8628.2  | 9531.8  | 9799.9  | 11030.4 | 10505.2 | 8811.8  |
| 20°   | 8470.2  | 8496.0  | 8462.9  | 8176.4  | 8187.4  | 8620.8  | 9237.9  | 9660.3  | 11331.6 | 11004.7 | 9138.8  |
| 22.5° | 9201.2  | 9215.9  | 9028.6  | 8716.3  | 8624.5  | 8837.6  | 9406.9  | 9730.1  | 11574.0 | 11603.4 | 9237.9  |
| 25°   | 10046.0 | 9987.2  | 9950.5  | 9509.7  | 9230.6  | 9414.2  | 9788.9  | 9976.2  | 11724.6 | 12117.7 | 9520.8  |
| 27.5° | 11217.7 | 11100.2 | 10876.1 | 10483.1 | 10277.4 | 10016.6 | 10284.8 | 10593.3 | 12154.4 | 12837.6 | 9829.3  |
| 30°   | 12947.8 | 12844.9 | 12407.8 | 11900.9 | 11361.0 | 11103.9 | 11188.4 | 11357.3 | 12929.4 | 13671.4 | 10237.0 |
| 32.5° | 15552.0 | 15335.3 | 14703.5 | 13737.5 | 13002.9 | 12294.0 | 12271.9 | 12451.9 | 13623.6 | 14824.8 | 10721.9 |
| 35°   | 18420.8 | 18354.6 | 17425.3 | 16429.9 | 15008.4 | 13913.8 | 13932.2 | 14027.7 | 14953.3 | 16338.1 | 11357.3 |
| 37.5° | 20327.1 | 20690.8 | 20099.4 | 19030.5 | 17836.7 | 16272.0 | 15875.3 | 15908.3 | 16778.9 | 18130.6 | 12503.3 |
| 40°   | 21800.0 | 21491.5 | 21561.3 | 21311.5 | 20496.1 | 19430.9 | 18553.0 | 18380.4 | 18890.9 | 20114.1 | 13642.0 |
| 42.5° | 21157.2 | 21171.9 | 21601.7 | 22193.1 | 22395.1 | 22318.0 | 21421.7 | 21094.8 | 20698.1 | 21737.6 | 14725.6 |
| 45°   | 19342.7 | 19721.0 | 20279.4 | 21844.1 | 23217.9 | 24507.1 | 24330.8 | 23787.2 | 21947.0 | 23023.2 | 15350.0 |
| 47.5° | 16448.3 | 16433.6 | 17348.2 | 19383.1 | 22435.5 | 25454.8 | 26255.5 | 25873.5 | 22832.2 | 22879.9 | 15221.5 |
| 48°   | 15379.4 | 15643.9 | 16587.9 | 18982.7 | 21939.6 | 25315.2 | 26428.2 | 25947.0 | 22681.6 | 22688.9 | 15111.3 |
| 50°   | 11368.3 | 11320.6 | 12496.0 | 15434.5 | 19596.2 | 23787.2 | 25700.9 | 26075.6 | 22677.9 | 21722.9 | 14339.9 |
| 52.5° | 6005.6  | 6211.3  | 7067.1  | 9704.4  | 13855.1 | 19467.6 | 22670.6 | 23254.6 | 21877.2 | 20143.5 | 13230.6 |
| 55°   | 2552.8  | 2306.7  | 2964.2  | 4382.0  | 7794.4  | 13006.6 | 16631.9 | 17932.2 | 18497.9 | 17825.7 | 11574.0 |
| 57.5° | 910.9   | 995.4   | 1146.0  | 1649.2  | 3276.4  | 7118.5  | 9917.5  | 10927.6 | 12815.6 | 13080.0 | 7886.2  |
| 60°   | 584.0   | 595.0   | 642.8   | 756.7   | 1230.5  | 2743.8  | 4705.3  | 5509.7  | 6365.5  | 6571.2  | 3680.5  |
| 62.5° | 451.8   | 455.5   | 477.5   | 495.9   | 584.0   | 1065.2  | 1766.8  | 2093.7  | 2174.5  | 1869.6  | 966.0   |
| 65°   | 378.3   | 382.0   | 389.4   | 389.4   | 415.1   | 499.5   | 617.1   | 679.5   | 661.2   | 653.8   | 547.3   |
| 67.5° | 290.2   | 297.5   | 312.2   | 312.2   | 326.9   | 304.9   | 341.6   | 363.6   | 411.4   | 499.5   | 466.5   |
| 70°   | 227.7   | 231.4   | 242.4   | 249.8   | 249.8   | 220.4   | 246.1   | 268.1   | 301.2   | 371.0   | 367.3   |
| 72.5° | 176.3   | 183.7   | 191.0   | 191.0   | 180.0   | 150.6   | 176.3   | 194.7   | 216.7   | 257.1   | 249.8   |
| 75°   | 135.9   | 135.9   | 139.6   | 113.9   | 88.2    | 77.1    | 106.5   | 128.6   | 161.6   | 169.0   | 139.6   |
| 77.5° | 36.7    | 40.4    | 36.7    | 33.1    | 36.7    | 55.1    | 69.8    | 80.8    | 102.8   | 102.8   | 91.8    |
| 80°   | 0.0     | 3.7     | 11.0    | 22.0    | 36.7    | 51.4    | 62.4    | 69.8    | 80.8    | 88.2    | 84.5    |
| 82.5° | 0.0     | 3.7     | 11.0    | 22.0    | 33.1    | 40.4    | 55.1    | 58.8    | 66.1    | 77.1    | 77.1    |
| 85°   | 0.0     | 3.7     | 7.3     | 14.7    | 22.0    | 25.7    | 25.7    | 22.0    | 22.0    | 18.4    | 14.7    |
| 87.5° | 0.0     | 0.0     | 3.7     | 7.3     | 7.3     | 11.0    | 11.0    | 11.0    | 11.0    | 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: P532803

CATALOG NUMBER: GLAN-SA8B-722-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 | 7276.5 |
| 2.5°  | 7313.2 | 7199.3 | 7026.7 | 6754.9 | 6494.1 | 6325.1 | 6163.5 | 5983.5 | 5884.4 | 5877.0 | 5821.9 |
| 5°    | 7401.4 | 7144.2 | 6732.9 | 6266.4 | 5766.8 | 5337.1 | 4903.6 | 4620.8 | 4367.4 | 4227.8 | 4202.1 |
| 7.5°  | 7449.1 | 7114.9 | 6450.0 | 5667.6 | 4815.5 | 4113.9 | 3629.1 | 3272.8 | 3133.2 | 3030.3 | 3026.7 |
| 10°   | 7548.3 | 7063.4 | 6027.6 | 4874.2 | 3820.1 | 3111.1 | 2776.9 | 2615.3 | 2538.1 | 2508.7 | 2464.7 |
| 12.5° | 7621.7 | 6967.9 | 5594.2 | 4058.8 | 3019.3 | 2578.5 | 2431.6 | 2394.9 | 2398.6 | 2413.2 | 2394.9 |
| 15°   | 7724.6 | 6883.4 | 5010.2 | 3331.5 | 2534.5 | 2321.4 | 2321.4 | 2328.8 | 2380.2 | 2387.5 | 2383.9 |
| 17.5° | 7717.3 | 6718.2 | 4407.8 | 2743.8 | 2240.6 | 2211.2 | 2222.2 | 2292.0 | 2325.1 | 2336.1 | 2310.4 |
| 20°   | 7805.4 | 6563.9 | 3787.0 | 2343.5 | 2075.3 | 2119.4 | 2192.9 | 2211.2 | 2251.6 | 2259.0 | 2229.6 |
| 22.5° | 7779.7 | 6178.2 | 3210.3 | 2027.6 | 1950.4 | 2034.9 | 2108.4 | 2130.4 | 2119.4 | 2097.4 | 2093.7 |
| 25°   | 7731.9 | 5847.6 | 2681.4 | 1818.2 | 1858.6 | 1950.4 | 2020.2 | 1979.8 | 1957.8 | 1961.5 | 1965.1 |
| 27.5° | 7647.5 | 5428.9 | 2244.3 | 1671.3 | 1733.7 | 1869.6 | 1866.0 | 1851.3 | 1873.3 | 1854.9 | 1873.3 |
| 30°   | 7632.8 | 5010.2 | 1884.3 | 1539.0 | 1641.9 | 1741.1 | 1748.4 | 1774.1 | 1799.8 | 1766.8 | 1799.8 |
| 32.5° | 7654.8 | 4551.0 | 1627.2 | 1458.2 | 1586.8 | 1590.5 | 1671.3 | 1697.0 | 1678.6 | 1605.2 | 1612.5 |
| 35°   | 7823.8 | 4198.4 | 1439.9 | 1414.2 | 1498.6 | 1502.3 | 1579.4 | 1546.4 | 1465.6 | 1421.5 | 1447.2 |
| 37.5° | 8180.1 | 3904.5 | 1351.7 | 1373.8 | 1381.1 | 1428.8 | 1432.5 | 1366.4 | 1373.8 | 1370.1 | 1384.8 |
| 40°   | 8635.5 | 3680.5 | 1289.3 | 1337.0 | 1329.7 | 1362.7 | 1230.5 | 1267.2 | 1300.3 | 1311.3 | 1318.7 |
| 42.5° | 8947.8 | 3518.9 | 1248.9 | 1278.3 | 1263.6 | 1204.8 | 1131.3 | 1168.1 | 1193.8 | 1234.2 | 1241.5 |
| 45°   | 9087.3 | 3390.3 | 1201.1 | 1175.4 | 1175.4 | 1068.9 | 1039.5 | 1046.8 | 1105.6 | 1149.7 | 1142.3 |
| 47.5° | 8859.6 | 3265.4 | 1116.6 | 1039.5 | 1065.2 | 977.1  | 944.0  | 944.0  | 1006.4 | 1061.5 | 1050.5 |
| 48°   | 8771.4 | 3214.0 | 1120.3 | 1010.1 | 1028.5 | 962.4  | 929.3  | 922.0  | 991.7  | 1043.2 | 1043.2 |
| 50°   | 8334.3 | 3023.0 | 1024.8 | 929.3  | 892.6  | 885.2  | 863.2  | 870.5  | 914.6  | 962.4  | 962.4  |
| 52.5° | 7482.2 | 2611.6 | 866.9  | 797.1  | 731.0  | 775.0  | 786.1  | 771.4  | 793.4  | 837.5  | 833.8  |
| 55°   | 6244.3 | 2005.5 | 694.2  | 661.2  | 609.7  | 657.5  | 679.5  | 661.2  | 639.1  | 672.2  | 672.2  |
| 57.5° | 4000.0 | 1079.9 | 554.6  | 562.0  | 510.6  | 558.3  | 576.7  | 532.6  | 492.2  | 517.9  | 514.2  |
| 60°   | 1803.5 | 646.5  | 455.5  | 444.4  | 411.4  | 466.5  | 495.9  | 444.4  | 389.4  | 407.7  | 426.1  |
| 62.5° | 675.9  | 459.1  | 345.3  | 337.9  | 330.6  | 382.0  | 396.7  | 356.3  | 301.2  | 312.2  | 315.9  |
| 65°   | 495.9  | 404.0  | 275.5  | 249.8  | 264.5  | 301.2  | 293.9  | 253.4  | 216.7  | 216.7  | 224.1  |
| 67.5° | 422.4  | 352.6  | 224.1  | 194.7  | 194.7  | 198.3  | 183.7  | 161.6  | 150.6  | 157.9  | 165.3  |
| 70°   | 330.6  | 279.2  | 176.3  | 150.6  | 135.9  | 121.2  | 106.5  | 102.8  | 91.8   | 102.8  | 99.2   |
| 72.5° | 213.0  | 187.3  | 135.9  | 113.9  | 102.8  | 84.5   | 69.8   | 66.1   | 55.1   | 51.4   | 51.4   |
| 75°   | 113.9  | 113.9  | 106.5  | 91.8   | 80.8   | 66.1   | 55.1   | 44.1   | 29.4   | 22.0   | 22.0   |
| 77.5° | 80.8   | 88.2   | 95.5   | 88.2   | 73.5   | 55.1   | 44.1   | 29.4   | 14.7   | 7.3    | 7.3    |
| 80°   | 77.1   | 88.2   | 95.5   | 84.5   | 73.5   | 55.1   | 40.4   | 22.0   | 11.0   | 3.7    | 3.7    |
| 82.5° | 69.8   | 80.8   | 88.2   | 77.1   | 66.1   | 47.8   | 36.7   | 22.0   | 11.0   | 3.7    | 3.7    |
| 85°   | 14.7   | 18.4   | 22.0   | 22.0   | 25.7   | 33.1   | 25.7   | 18.4   | 7.3    | 3.7    | 3.7    |
| 87.5° | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 7.3    | 7.3    | 3.7    | 3.7    | 3.7    |
| 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)