

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: P456197

Luminaire Tested: **GLAN-SA7C-722-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-722-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36350 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 377  
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

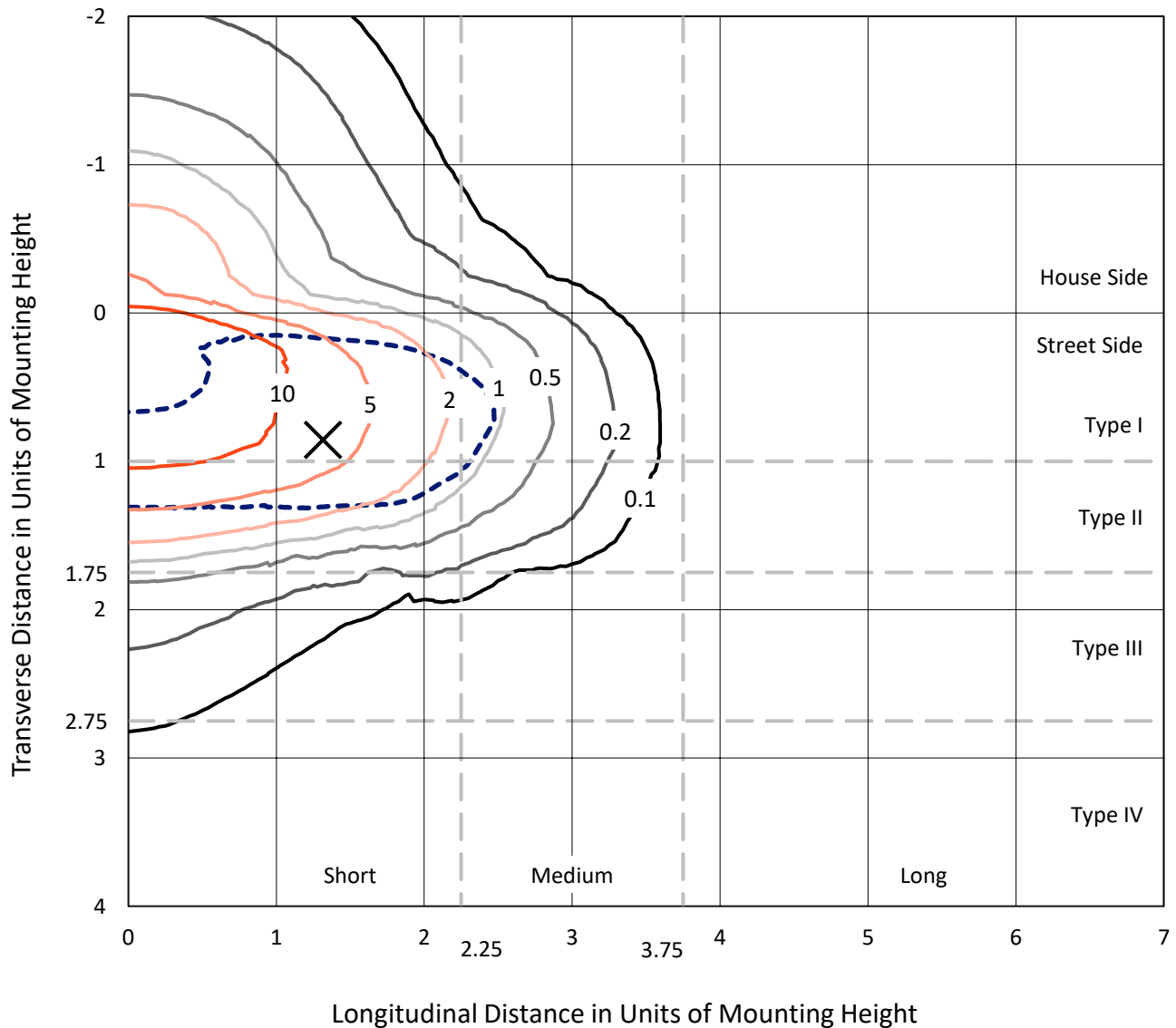


REPORT NUMBER: P456197

CATALOG NUMBER: GLAN-SA7C-722-U-AFL

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

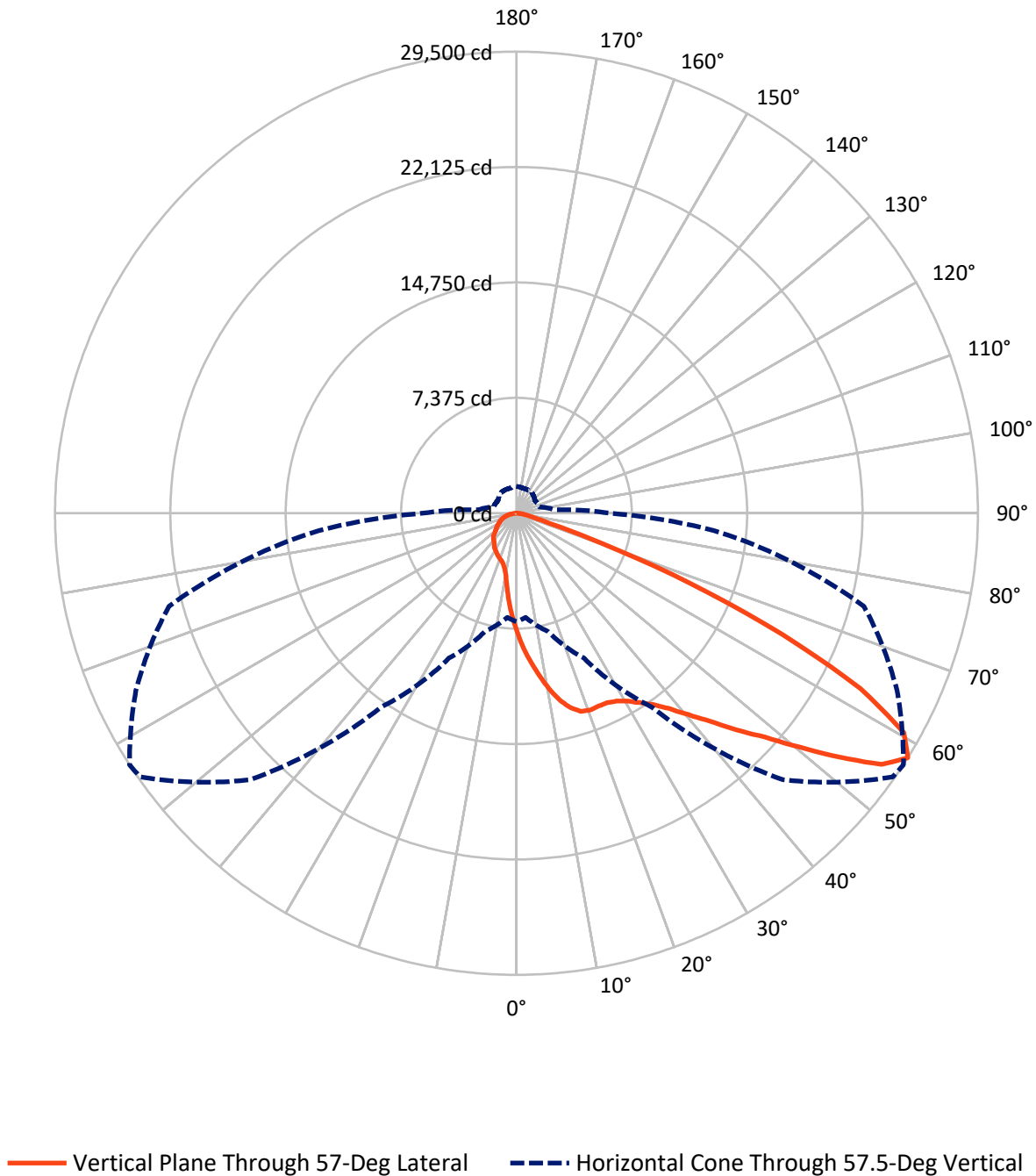


Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
Type II - Short - N/A

REPORT NUMBER: P456197

CATALOG NUMBER: GLAN-SA7C-722-U-AFL

## Luminous Intensity Polar Plot



REPORT NUMBER: P456197

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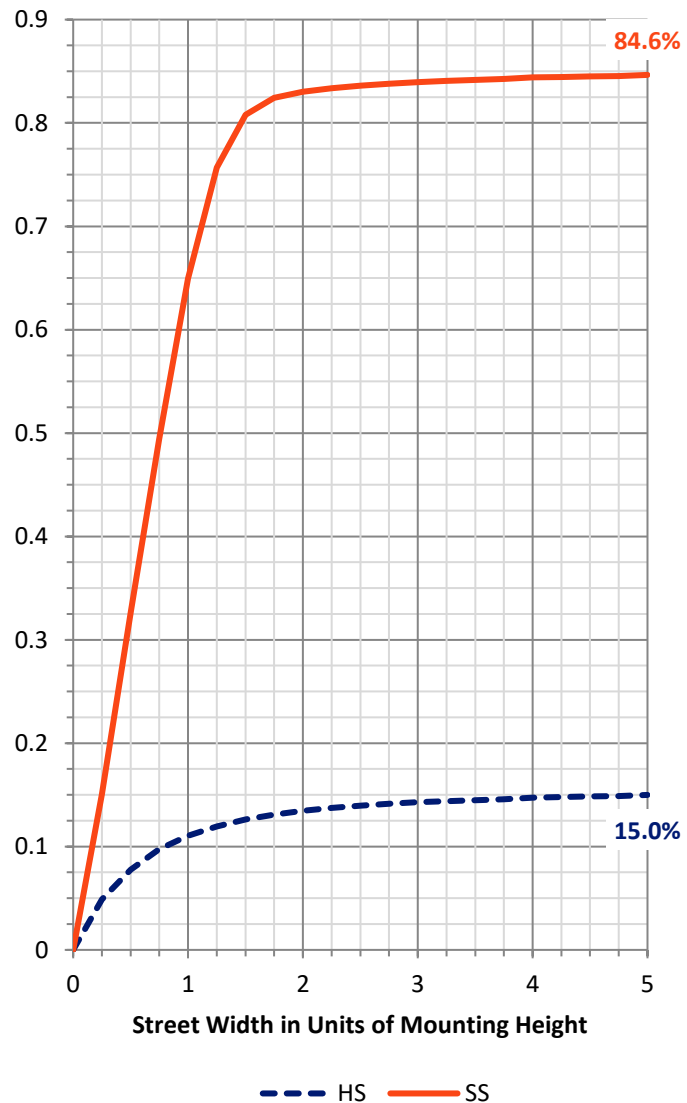
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5527.8   | 0.0    | 5527.8  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 30822.2  | 0.0    | 30822.2 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 36350.0  | 0.0    | 36350.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 734.0   | 2.0       |
| 10°-20°   | 2163.0  | 6.0       |
| 20°-30°   | 3591.8  | 9.9       |
| 30°-40°   | 5410.2  | 14.9      |
| 40°-50°   | 8122.9  | 22.3      |
| 50°-60°   | 9104.8  | 25.0      |
| 60°-70°   | 5328.6  | 14.7      |
| 70°-80°   | 1576.1  | 4.3       |
| 80°-90°   | 318.6   | 0.9       |
| 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°    | 36350.0 | 100.0     |
| 0°-180°   | 36350.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P456197

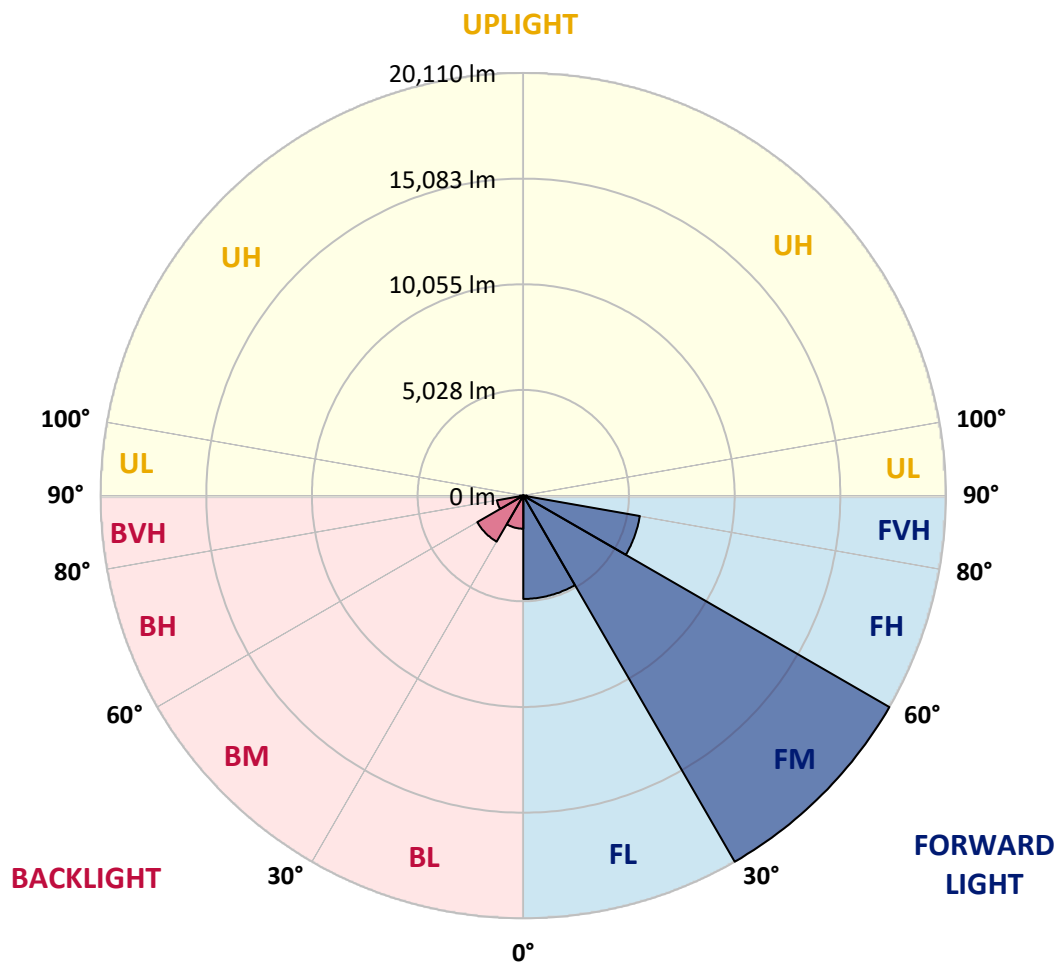
CATALOG NUMBER: GLAN-SA7C-722-U-AFL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4913.7  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 20110.4 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 5632.8  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 165.3   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1575.1  | 4.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2527.5  | 7.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1271.9  | 3.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 153.3   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P456197

CATALOG NUMBER: GLAN-SA7C-722-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  | 7636.7  |
| 2.5°  | 9489.2  | 9385.7  | 9304.1  | 9232.5  | 9139.0  | 8886.3  | 8633.6  | 8629.6  | 8428.6  | 8118.2  | 7799.9  |
| 5°    | 11035.2 | 10896.0 | 10913.9 | 10691.0 | 10468.2 | 10102.0 | 9566.8  | 9538.9  | 9111.1  | 8530.1  | 7939.2  |
| 7.5°  | 12042.1 | 12044.0 | 11988.3 | 11861.0 | 11620.2 | 11204.4 | 10597.5 | 10460.2 | 9865.3  | 8983.8  | 8098.3  |
| 10°   | 11990.3 | 12044.0 | 12137.6 | 12247.0 | 12320.6 | 12115.7 | 11562.5 | 11395.4 | 10621.4 | 9533.0  | 8275.4  |
| 12.5° | 11301.9 | 11385.4 | 11518.8 | 11793.3 | 12237.1 | 12575.3 | 12386.3 | 12251.0 | 11496.9 | 10080.2 | 8470.4  |
| 15°   | 10872.1 | 10921.8 | 10995.4 | 11180.5 | 11658.0 | 12467.9 | 12957.4 | 12885.7 | 12322.6 | 10699.0 | 8689.3  |
| 17.5° | 10740.8 | 10790.5 | 10814.4 | 10927.8 | 11268.0 | 12097.8 | 13182.2 | 13309.5 | 13054.8 | 11268.0 | 8910.2  |
| 20°   | 10872.1 | 10896.0 | 10896.0 | 10963.6 | 11230.2 | 11880.9 | 13172.2 | 13428.9 | 13655.8 | 11950.5 | 9117.1  |
| 22.5° | 11216.3 | 11226.3 | 11212.3 | 11236.2 | 11435.2 | 11940.6 | 13078.7 | 13397.1 | 14141.3 | 12529.6 | 9278.3  |
| 25°   | 11775.4 | 11791.3 | 11699.8 | 11644.1 | 11789.4 | 12203.2 | 13130.5 | 13423.0 | 14521.3 | 13082.7 | 9385.7  |
| 27.5° | 12410.2 | 12430.1 | 12318.6 | 12189.3 | 12257.0 | 12527.6 | 13333.4 | 13596.1 | 14805.8 | 13627.9 | 9453.4  |
| 30°   | 13188.2 | 13196.1 | 13009.1 | 12853.9 | 12810.1 | 13011.1 | 13679.6 | 13924.4 | 15160.0 | 14270.6 | 9554.9  |
| 32.5° | 13984.1 | 14043.8 | 13803.0 | 13584.1 | 13510.5 | 13572.2 | 14191.0 | 14427.8 | 15581.9 | 14961.0 | 9718.0  |
| 35°   | 15066.5 | 15076.5 | 14787.9 | 14521.3 | 14278.6 | 14358.1 | 14845.6 | 15016.8 | 16164.9 | 15758.9 | 9948.8  |
| 37.5° | 16417.6 | 16509.1 | 16111.1 | 15613.7 | 15315.2 | 15199.8 | 15637.6 | 15824.6 | 16982.6 | 16737.9 | 10297.0 |
| 40°   | 17917.8 | 17951.7 | 17611.4 | 17301.0 | 16755.8 | 16421.5 | 16724.0 | 16926.9 | 17991.5 | 17905.9 | 10701.0 |
| 42.5° | 18861.0 | 18934.6 | 18960.5 | 18928.6 | 18518.7 | 17957.6 | 18073.0 | 18168.5 | 19185.3 | 19002.3 | 11114.8 |
| 45°   | 19179.3 | 19288.8 | 19658.9 | 20442.8 | 20486.6 | 19933.5 | 19664.8 | 19756.4 | 20486.6 | 20108.6 | 11510.8 |
| 47.5° | 18652.1 | 18839.1 | 19521.6 | 21129.3 | 22333.1 | 22374.9 | 21565.1 | 21364.1 | 21672.5 | 21025.8 | 11797.3 |
| 50°   | 17289.1 | 17328.9 | 18373.5 | 20701.5 | 23198.7 | 24708.9 | 23871.2 | 23497.1 | 22798.7 | 21704.4 | 11994.3 |
| 52.5° | 15179.9 | 15225.7 | 16101.2 | 18713.7 | 22665.4 | 26340.5 | 26569.3 | 25900.8 | 23942.8 | 22231.6 | 12123.6 |
| 55°   | 11268.0 | 11532.7 | 12495.7 | 15020.7 | 20138.4 | 26187.3 | 28714.3 | 28334.3 | 25325.7 | 22649.5 | 12326.6 |
| 57.5° | 6928.4  | 6685.6  | 7827.7  | 10219.4 | 15146.1 | 24082.1 | 29376.9 | 29500.3 | 26847.9 | 22999.7 | 12666.8 |
| 60°   | 3187.6  | 3235.4  | 3706.9  | 5270.9  | 9232.5  | 18839.1 | 27669.7 | 28449.7 | 27689.6 | 22987.8 | 12752.4 |
| 62.5° | 2196.7  | 2152.9  | 2033.5  | 2314.1  | 4210.3  | 11914.7 | 23371.8 | 24693.0 | 26002.3 | 22273.4 | 12412.2 |
| 65°   | 1963.9  | 1920.1  | 1689.3  | 1611.7  | 1934.1  | 5193.3  | 16990.6 | 18658.0 | 21893.4 | 20470.7 | 11564.5 |
| 67.5° | 1834.6  | 1774.9  | 1536.1  | 1384.9  | 1380.9  | 2067.4  | 10018.5 | 12026.1 | 16238.5 | 17307.0 | 10020.5 |
| 70°   | 1699.3  | 1651.5  | 1414.7  | 1247.6  | 1176.0  | 1299.3  | 4403.4  | 5764.3  | 10543.8 | 12471.8 | 7805.8  |
| 72.5° | 1564.0  | 1508.2  | 1295.3  | 1116.3  | 1022.7  | 973.0   | 1687.3  | 2194.7  | 5957.4  | 7477.5  | 4785.4  |
| 75°   | 1367.0  | 1339.1  | 1158.0  | 1010.8  | 909.3   | 786.0   | 1070.5  | 1221.7  | 2849.3  | 3434.3  | 2401.6  |
| 77.5° | 1195.8  | 1166.0  | 1028.7  | 883.5   | 809.8   | 638.7   | 760.1   | 829.7   | 1201.8  | 1392.8  | 1084.4  |
| 80°   | 875.5   | 905.3   | 867.5   | 780.0   | 722.3   | 501.4   | 511.4   | 569.1   | 714.3   | 789.9   | 662.6   |
| 82.5° | 555.1   | 610.9   | 668.6   | 600.9   | 547.2   | 396.0   | 354.2   | 376.1   | 487.5   | 517.3   | 294.5   |
| 85°   | 232.8   | 236.8   | 388.0   | 366.1   | 312.4   | 234.8   | 212.9   | 224.8   | 260.7   | 272.6   | 137.3   |
| 87.5° | 89.5    | 87.5    | 137.3   | 127.3   | 97.5    | 67.7    | 67.7    | 75.6    | 103.5   | 95.5    | 43.8    |
| 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: P456197

CATALOG NUMBER: GLAN-SA7C-722-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 | 7636.7 |
| 2.5°  | 7662.6 | 7521.3 | 7240.8 | 6892.5 | 6637.9 | 6351.3 | 6098.6 | 5917.6 | 5849.9 | 5818.1 | 5758.4 |
| 5°    | 7656.6 | 7378.0 | 6797.0 | 6188.2 | 5698.7 | 5197.3 | 4773.4 | 4498.9 | 4475.0 | 4291.9 | 4274.0 |
| 7.5°  | 7658.6 | 7232.8 | 6307.6 | 5412.2 | 4666.0 | 4152.6 | 3802.4 | 3710.9 | 3601.5 | 3573.6 | 3587.5 |
| 10°   | 7664.6 | 7047.7 | 5782.3 | 4644.1 | 3921.8 | 3585.6 | 3454.2 | 3418.4 | 3422.4 | 3434.3 | 3436.3 |
| 12.5° | 7672.5 | 6868.7 | 5237.1 | 4061.1 | 3504.0 | 3364.7 | 3350.8 | 3382.6 | 3416.4 | 3442.3 | 3448.3 |
| 15°   | 7682.5 | 6663.7 | 4705.8 | 3591.5 | 3295.1 | 3283.1 | 3328.9 | 3382.6 | 3430.4 | 3468.2 | 3474.1 |
| 17.5° | 7670.5 | 6425.0 | 4260.1 | 3303.0 | 3179.6 | 3237.3 | 3313.0 | 3380.6 | 3424.4 | 3460.2 | 3464.2 |
| 20°   | 7642.7 | 6158.3 | 3830.3 | 3100.1 | 3108.0 | 3201.5 | 3283.1 | 3346.8 | 3394.5 | 3412.4 | 3426.4 |
| 22.5° | 7535.2 | 5840.0 | 3456.2 | 2942.9 | 3022.5 | 3151.8 | 3249.3 | 3287.1 | 3233.4 | 3195.6 | 3205.5 |
| 25°   | 7352.2 | 5426.1 | 3108.0 | 2815.5 | 2944.9 | 3082.1 | 3181.6 | 3090.1 | 3046.3 | 3030.4 | 3038.4 |
| 27.5° | 7123.4 | 4972.4 | 2845.4 | 2682.2 | 2845.4 | 3004.5 | 2976.7 | 2960.8 | 2940.9 | 2915.0 | 2921.0 |
| 30°   | 6876.6 | 4528.7 | 2622.5 | 2578.7 | 2737.9 | 2829.4 | 2841.4 | 2867.3 | 2845.4 | 2805.6 | 2821.5 |
| 32.5° | 6647.8 | 4110.9 | 2453.4 | 2491.2 | 2662.3 | 2648.4 | 2737.9 | 2767.8 | 2666.3 | 2533.0 | 2538.9 |
| 35°   | 6452.8 | 3722.9 | 2326.0 | 2405.6 | 2533.0 | 2538.9 | 2628.5 | 2525.0 | 2415.6 | 2351.9 | 2355.9 |
| 37.5° | 6305.6 | 3420.4 | 2242.5 | 2332.0 | 2367.8 | 2443.4 | 2395.7 | 2342.0 | 2328.0 | 2284.3 | 2286.2 |
| 40°   | 6218.0 | 3155.8 | 2188.7 | 2274.3 | 2268.3 | 2320.1 | 2166.9 | 2220.6 | 2240.5 | 2226.5 | 2228.5 |
| 42.5° | 6130.5 | 2968.7 | 2133.0 | 2194.7 | 2192.7 | 2091.2 | 2057.4 | 2103.2 | 2154.9 | 2160.9 | 2156.9 |
| 45°   | 6060.8 | 2823.5 | 2075.3 | 2073.3 | 2113.1 | 1953.9 | 1944.0 | 1971.9 | 2045.5 | 2081.3 | 2079.3 |
| 47.5° | 5983.2 | 2702.1 | 1987.8 | 1932.1 | 1944.0 | 1868.4 | 1852.5 | 1864.4 | 1953.9 | 2011.7 | 2027.6 |
| 50°   | 5885.7 | 2580.7 | 1878.3 | 1802.7 | 1753.0 | 1788.8 | 1792.8 | 1794.8 | 1884.3 | 1950.0 | 1963.9 |
| 52.5° | 5808.1 | 2489.2 | 1753.0 | 1697.3 | 1637.6 | 1717.2 | 1747.0 | 1751.0 | 1804.7 | 1858.4 | 1868.4 |
| 55°   | 5853.9 | 2437.5 | 1629.6 | 1589.8 | 1536.1 | 1643.5 | 1701.2 | 1709.2 | 1721.1 | 1760.9 | 1766.9 |
| 57.5° | 5991.2 | 2449.4 | 1530.1 | 1478.4 | 1438.6 | 1556.0 | 1653.5 | 1659.5 | 1651.5 | 1699.3 | 1707.2 |
| 60°   | 6033.0 | 2443.4 | 1456.5 | 1355.0 | 1331.2 | 1462.5 | 1583.9 | 1595.8 | 1593.8 | 1663.4 | 1677.4 |
| 62.5° | 5857.9 | 2367.8 | 1382.9 | 1251.6 | 1235.6 | 1367.0 | 1486.4 | 1534.1 | 1544.1 | 1643.5 | 1661.5 |
| 65°   | 5446.0 | 2212.6 | 1285.4 | 1142.1 | 1142.1 | 1265.5 | 1392.8 | 1458.5 | 1486.4 | 1619.7 | 1639.6 |
| 67.5° | 4902.8 | 2029.6 | 1185.9 | 1048.6 | 1044.6 | 1168.0 | 1293.3 | 1361.0 | 1404.8 | 1585.8 | 1597.8 |
| 70°   | 4069.1 | 1782.8 | 1062.5 | 947.1  | 947.1  | 1058.6 | 1172.0 | 1253.6 | 1317.2 | 1522.2 | 1522.2 |
| 72.5° | 2787.7 | 1482.4 | 913.3  | 831.7  | 833.7  | 937.2  | 1052.6 | 1144.1 | 1219.7 | 1394.8 | 1398.8 |
| 75°   | 1762.9 | 1158.0 | 750.1  | 708.4  | 716.3  | 813.8  | 933.2  | 1028.7 | 1179.9 | 1378.9 | 1384.9 |
| 77.5° | 937.2  | 813.8  | 596.9  | 587.0  | 596.9  | 686.5  | 819.8  | 951.1  | 1183.9 | 1195.8 | 1176.0 |
| 80°   | 606.9  | 577.0  | 471.6  | 451.7  | 455.7  | 553.2  | 730.2  | 903.4  | 951.1  | 963.0  | 919.3  |
| 82.5° | 330.3  | 366.1  | 334.3  | 314.4  | 314.4  | 431.8  | 622.8  | 718.3  | 682.5  | 567.1  | 541.2  |
| 85°   | 141.3  | 171.1  | 173.1  | 151.2  | 145.3  | 266.6  | 417.9  | 392.0  | 364.1  | 348.2  | 344.2  |
| 87.5° | 39.8   | 55.7   | 55.7   | 41.8   | 31.8   | 73.6   | 83.6   | 23.9   | 0.0    | 2.0    | 4.0    |
| 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)