

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: P454355

Luminaire Tested: **GLAN-SA5C-722-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-722-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26029 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 269  
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

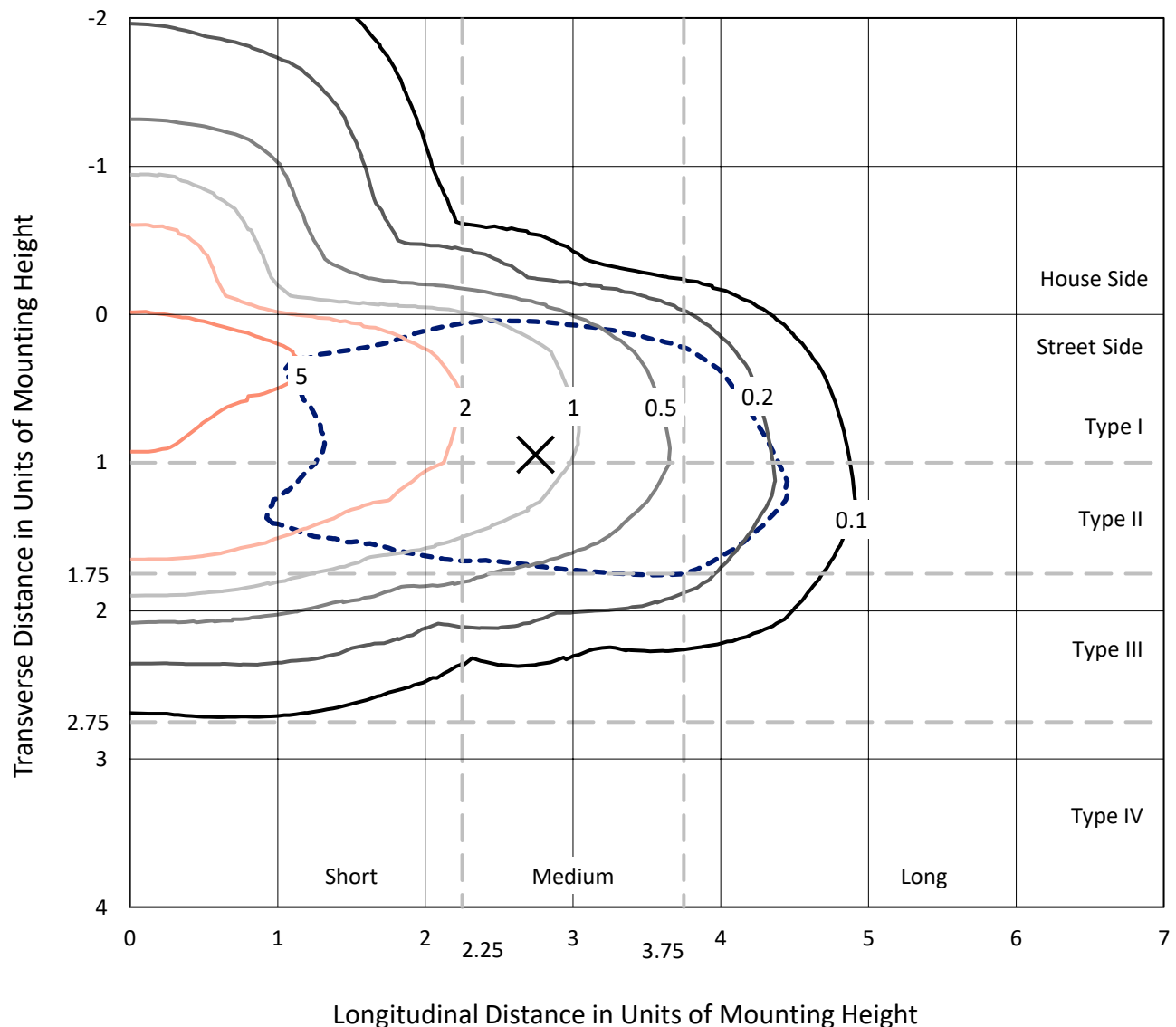


REPORT NUMBER: P454355

CATALOG NUMBER: GLAN-SA5C-722-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

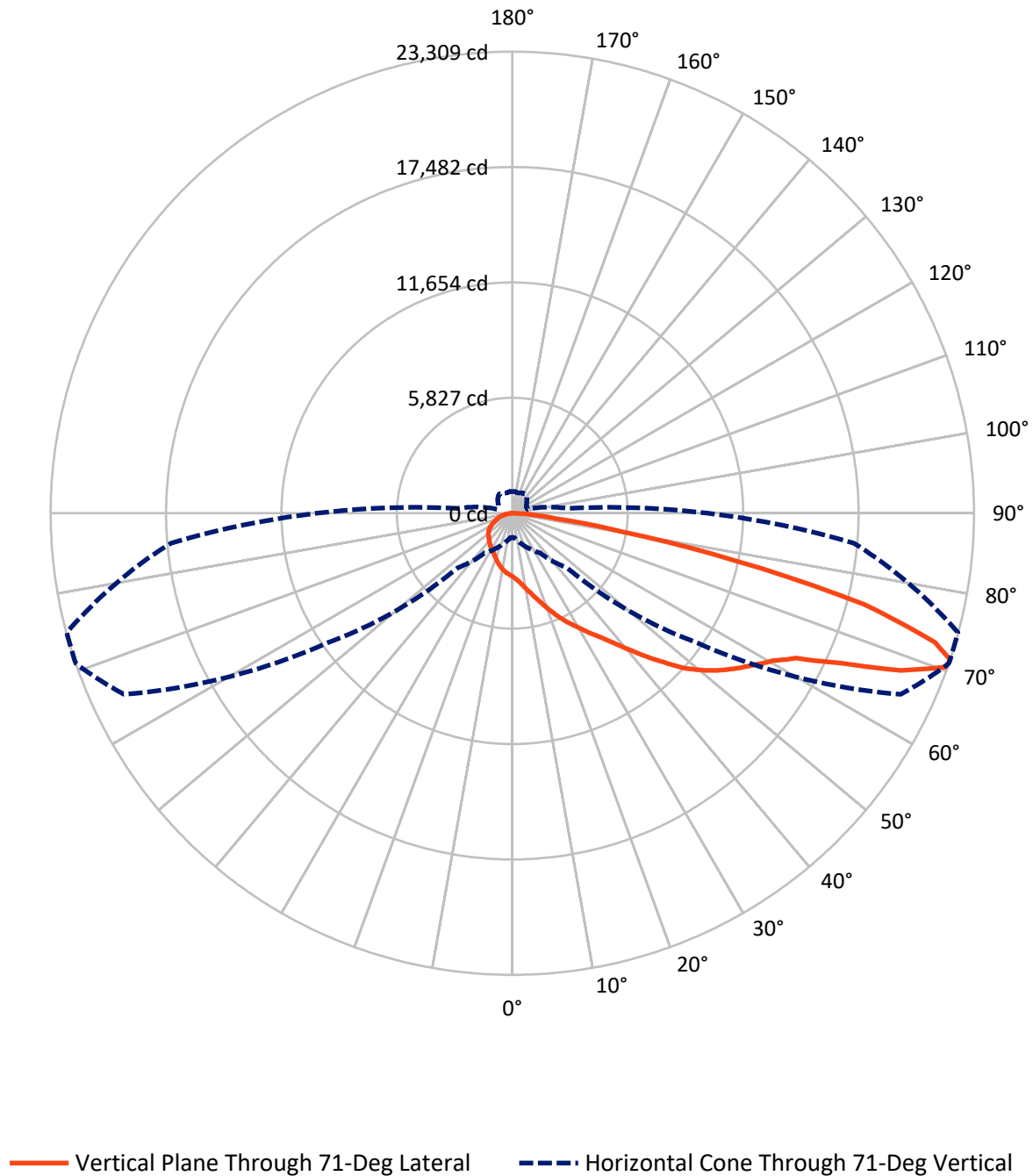


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P454355

CATALOG NUMBER: GLAN-SA5C-722-U-T2

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4681.3   | 0.0    | 4681.3  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 21347.7  | 0.0    | 21347.7 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 26029.0  | 0.0    | 26029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 320.8   | 1.2       |
| 10°-20°   | 1042.1  | 4.0       |
| 20°-30°   | 1821.2  | 7.0       |
| 30°-40°   | 2708.7  | 10.4      |
| 40°-50°   | 3991.0  | 15.3      |
| 50°-60°   | 5587.4  | 21.5      |
| 60°-70°   | 6249.4  | 24.0      |
| 70°-80°   | 3817.4  | 14.7      |
| 80°-90°   | 491.1   | 1.9       |
| 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°    | 26029.0 | 100.0     |
| 0°-180°   | 26029.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P454355

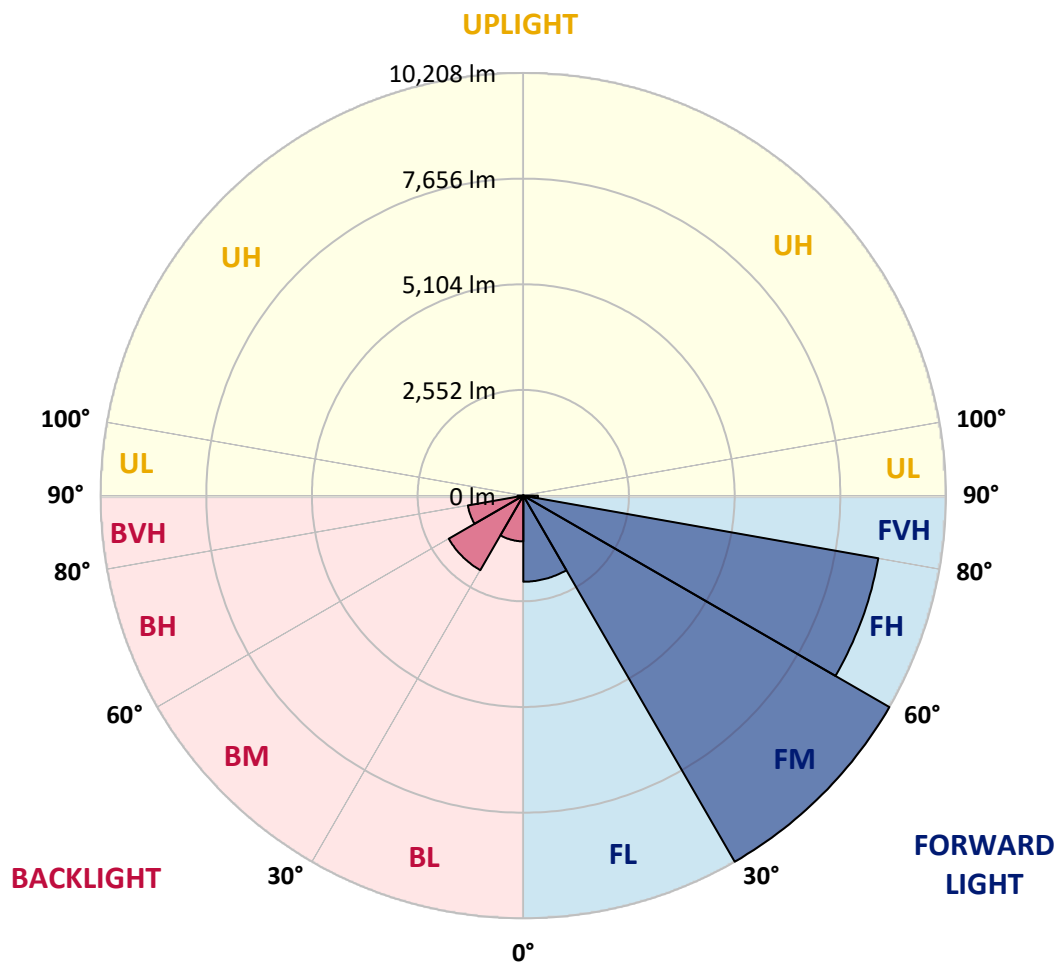
CATALOG NUMBER: GLAN-SA5C-722-U-T2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2079.7  | 8.0       |                         |      |          |
| FM   | (30°-60°)   | 10208.1 | 39.2      |                         |      |          |
| FH   | (60°-80°)   | 8706.6  | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 353.3   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1104.3  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2079.1  | 8.0       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1360.1  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 137.7   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium





REPORT NUMBER: P454355

CATALOG NUMBER: GLAN-SA5C-722-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  | 3194.5  |
| 2.5°  | 3546.5  | 3529.3  | 3530.7  | 3506.4  | 3474.9  | 3440.6  | 3392.0  | 3349.1  | 3314.7  | 3294.7  | 3236.0  |
| 5°    | 3929.9  | 3912.7  | 3891.3  | 3838.3  | 3815.4  | 3731.0  | 3623.7  | 3526.4  | 3452.1  | 3410.6  | 3293.3  |
| 7.5°  | 4240.3  | 4236.0  | 4230.3  | 4200.3  | 4141.6  | 4024.3  | 3932.7  | 3763.9  | 3653.8  | 3575.1  | 3374.8  |
| 10°   | 4432.0  | 4439.2  | 4443.5  | 4449.2  | 4424.9  | 4363.4  | 4237.5  | 4024.3  | 3884.1  | 3784.0  | 3480.7  |
| 12.5° | 4529.3  | 4536.5  | 4560.8  | 4613.7  | 4646.6  | 4639.5  | 4536.5  | 4327.6  | 4134.5  | 4002.8  | 3593.7  |
| 15°   | 4589.4  | 4600.8  | 4643.8  | 4713.9  | 4824.0  | 4894.1  | 4844.0  | 4650.9  | 4439.2  | 4283.2  | 3728.2  |
| 17.5° | 4655.2  | 4668.1  | 4715.3  | 4815.4  | 4959.9  | 5111.6  | 5165.9  | 5000.0  | 4769.6  | 4583.7  | 3878.4  |
| 20°   | 4692.4  | 4709.6  | 4776.8  | 4908.4  | 5077.2  | 5297.5  | 5477.8  | 5390.5  | 5138.7  | 4932.7  | 4051.5  |
| 22.5° | 4752.5  | 4766.8  | 4824.0  | 4964.2  | 5165.9  | 5442.0  | 5789.7  | 5771.1  | 5549.3  | 5283.2  | 4241.8  |
| 25°   | 4915.6  | 4938.5  | 4967.1  | 5051.5  | 5246.0  | 5589.4  | 6048.6  | 6177.4  | 5947.0  | 5649.5  | 4416.3  |
| 27.5° | 5223.1  | 5241.7  | 5240.3  | 5251.8  | 5361.9  | 5716.7  | 6273.2  | 6579.4  | 6341.9  | 6020.0  | 4585.1  |
| 30°   | 5573.6  | 5580.8  | 5586.5  | 5560.8  | 5585.1  | 5846.9  | 6479.2  | 6977.1  | 6739.6  | 6400.5  | 4732.4  |
| 32.5° | 6000.0  | 6014.3  | 5965.6  | 5899.8  | 5879.8  | 6040.0  | 6649.5  | 7374.8  | 7210.3  | 6786.8  | 4878.4  |
| 35°   | 6503.5  | 6540.7  | 6442.0  | 6326.1  | 6244.6  | 6317.6  | 6878.4  | 7781.1  | 7692.4  | 7280.4  | 5071.5  |
| 37.5° | 7078.6  | 7124.4  | 7032.9  | 6805.4  | 6689.5  | 6709.5  | 7177.4  | 8283.2  | 8301.8  | 7842.6  | 5359.1  |
| 40°   | 7549.3  | 7609.4  | 7612.3  | 7290.4  | 7114.4  | 7137.3  | 7556.5  | 8824.0  | 9037.1  | 8537.9  | 5698.1  |
| 42.5° | 7859.8  | 7918.4  | 7979.9  | 7791.1  | 7606.5  | 7736.7  | 7998.5  | 9410.5  | 9864.0  | 9381.9  | 6171.6  |
| 45°   | 8200.2  | 8253.2  | 8287.5  | 8201.7  | 8098.7  | 8436.3  | 8532.1  | 10034.3 | 10745.3 | 10324.7 | 6689.5  |
| 47.5° | 8595.1  | 8653.7  | 8686.6  | 8605.1  | 8566.5  | 9050.0  | 9107.2  | 10616.5 | 11686.6 | 11240.3 | 7261.8  |
| 50°   | 9121.6  | 9165.9  | 9148.7  | 9097.2  | 9088.6  | 9520.7  | 9659.5  | 11161.6 | 12463.5 | 12226.0 | 7855.5  |
| 52.5° | 9776.8  | 9829.7  | 9848.3  | 9775.3  | 9742.4  | 9856.9  | 10104.4 | 11658.0 | 13170.2 | 13072.9 | 8489.2  |
| 55°   | 10173.0 | 10257.5 | 10540.7 | 10655.2 | 10733.8 | 10291.8 | 10583.6 | 12205.9 | 13803.9 | 13965.6 | 9170.2  |
| 57.5° | 9665.2  | 9773.9  | 10407.7 | 10979.9 | 11719.5 | 11379.1 | 11263.2 | 12778.2 | 14437.7 | 14831.1 | 9985.6  |
| 60°   | 8426.3  | 8450.6  | 9267.5  | 10321.8 | 11809.7 | 12776.8 | 12680.9 | 13688.1 | 15124.4 | 15703.8 | 11060.0 |
| 62.5° | 5845.5  | 5897.0  | 6862.6  | 8545.0  | 10696.7 | 13280.3 | 15092.9 | 15258.9 | 16108.6 | 17009.9 | 12635.1 |
| 65°   | 3014.3  | 2947.1  | 3826.9  | 5370.5  | 8064.3  | 12084.3 | 17047.1 | 18147.3 | 18243.1 | 19052.8 | 14852.6 |
| 67.5° | 1855.5  | 1885.5  | 2297.6  | 3135.9  | 4768.2  | 8782.5  | 16842.5 | 21676.6 | 21171.6 | 21560.7 | 16911.2 |
| 70°   | 1393.4  | 1430.6  | 1713.9  | 2145.9  | 2907.0  | 5021.4  | 13545.0 | 22532.1 | 23237.4 | 23137.2 | 17537.8 |
| 71°   | 1211.7  | 1250.4  | 1545.1  | 1952.8  | 2442.0  | 3875.5  | 11412.0 | 21636.5 | 23308.9 | 23291.7 | 17301.8 |
| 72.5° | 1032.9  | 1057.2  | 1287.5  | 1653.8  | 2058.6  | 2716.7  | 8573.6  | 19404.8 | 22314.6 | 22885.4 | 16459.1 |
| 75°   | 811.2   | 829.8   | 932.8   | 1261.8  | 1620.9  | 1668.1  | 4600.8  | 14547.8 | 18327.5 | 19414.8 | 13702.4 |
| 77.5° | 660.9   | 673.8   | 726.7   | 937.0   | 1250.4  | 1181.7  | 2413.4  | 9469.2  | 11482.1 | 12576.5 | 8071.5  |
| 80°   | 525.0   | 539.3   | 570.8   | 635.2   | 937.0   | 842.6   | 1151.6  | 4798.3  | 5546.5  | 5535.0  | 3221.7  |
| 82.5° | 407.7   | 412.0   | 449.2   | 466.4   | 640.9   | 598.0   | 623.7   | 2031.5  | 2250.3  | 2324.7  | 1163.1  |
| 85°   | 257.5   | 270.4   | 397.7   | 357.7   | 383.4   | 350.5   | 307.6   | 806.9   | 994.3   | 980.0   | 464.9   |
| 87.5° | 78.7    | 83.0    | 134.5   | 151.6   | 170.2   | 153.1   | 113.0   | 237.5   | 290.4   | 314.7   | 115.9   |
| 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: P454355

CATALOG NUMBER: GLAN-SA5C-722-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3194.5  | 3194.5 | 3194.5 | 3194.5 | 3194.5 | 3194.5 | 3194.5 | 3194.5 | 3194.5 | 3194.5 | 3194.5 |
| 2.5°  | 3213.1  | 3197.4 | 3141.6 | 3095.8 | 3052.9 | 3005.7 | 2965.6 | 2954.2 | 2944.2 | 2939.9 | 2938.5 |
| 5°    | 3243.2  | 3196.0 | 3085.8 | 2995.7 | 2924.2 | 2858.4 | 2816.9 | 2798.3 | 2779.7 | 2779.7 | 2785.4 |
| 7.5°  | 3286.1  | 3200.3 | 3030.0 | 2895.5 | 2805.4 | 2743.9 | 2713.9 | 2711.0 | 2715.3 | 2719.6 | 2721.0 |
| 10°   | 3333.3  | 3197.4 | 2948.5 | 2781.1 | 2701.0 | 2672.4 | 2673.8 | 2698.1 | 2721.0 | 2738.2 | 2741.0 |
| 12.5° | 3379.1  | 3180.2 | 2852.6 | 2673.8 | 2622.3 | 2628.0 | 2668.1 | 2722.4 | 2766.8 | 2791.1 | 2792.5 |
| 15°   | 3430.6  | 3153.1 | 2736.8 | 2572.2 | 2555.1 | 2599.4 | 2673.8 | 2756.8 | 2824.0 | 2864.1 | 2868.4 |
| 17.5° | 3473.5  | 3107.3 | 2615.2 | 2473.5 | 2495.0 | 2576.5 | 2679.5 | 2786.8 | 2868.4 | 2918.4 | 2927.0 |
| 20°   | 3522.2  | 3048.6 | 2489.3 | 2379.1 | 2440.6 | 2550.8 | 2668.1 | 2784.0 | 2868.4 | 2917.0 | 2928.5 |
| 22.5° | 3560.8  | 2965.6 | 2369.1 | 2301.8 | 2392.0 | 2519.3 | 2629.5 | 2722.4 | 2791.1 | 2816.9 | 2834.0 |
| 25°   | 3576.5  | 2861.2 | 2256.1 | 2238.9 | 2353.3 | 2467.8 | 2542.2 | 2595.1 | 2616.6 | 2613.7 | 2620.9 |
| 27.5° | 3567.9  | 2741.0 | 2158.8 | 2188.8 | 2304.7 | 2387.7 | 2424.9 | 2420.6 | 2382.0 | 2346.2 | 2363.4 |
| 30°   | 3532.2  | 2598.0 | 2077.2 | 2137.3 | 2241.8 | 2287.5 | 2281.8 | 2226.0 | 2153.1 | 2085.8 | 2090.1 |
| 32.5° | 3467.8  | 2443.5 | 2001.4 | 2078.7 | 2153.1 | 2173.1 | 2134.5 | 2061.5 | 1957.1 | 1869.8 | 1856.9 |
| 35°   | 3413.4  | 2296.1 | 1934.2 | 2011.4 | 2064.4 | 2054.4 | 2017.2 | 1922.7 | 1828.3 | 1751.1 | 1738.2 |
| 37.5° | 3404.8  | 2170.2 | 1869.8 | 1935.6 | 1965.7 | 1951.3 | 1905.6 | 1825.5 | 1791.1 | 1732.5 | 1725.3 |
| 40°   | 3450.6  | 2081.5 | 1804.0 | 1855.5 | 1869.8 | 1858.4 | 1808.3 | 1762.5 | 1794.0 | 1779.7 | 1779.7 |
| 42.5° | 3575.1  | 2034.3 | 1745.3 | 1775.4 | 1786.8 | 1795.4 | 1759.6 | 1721.0 | 1759.6 | 1693.8 | 1672.4 |
| 45°   | 3772.5  | 2035.8 | 1692.4 | 1696.7 | 1731.0 | 1761.1 | 1736.8 | 1679.5 | 1659.5 | 1527.9 | 1502.1 |
| 47.5° | 4062.9  | 2084.4 | 1649.5 | 1622.3 | 1683.8 | 1733.9 | 1699.6 | 1616.6 | 1527.9 | 1440.6 | 1424.9 |
| 50°   | 4402.0  | 2171.7 | 1610.9 | 1545.1 | 1620.9 | 1699.6 | 1673.8 | 1576.5 | 1485.0 | 1432.0 | 1422.0 |
| 52.5° | 4778.2  | 2281.8 | 1563.7 | 1459.2 | 1543.6 | 1683.8 | 1679.5 | 1570.8 | 1444.9 | 1409.1 | 1400.6 |
| 55°   | 5243.2  | 2390.5 | 1505.0 | 1359.1 | 1475.0 | 1670.9 | 1663.8 | 1523.6 | 1436.3 | 1410.6 | 1407.7 |
| 57.5° | 5783.9  | 2547.9 | 1420.6 | 1257.5 | 1396.3 | 1618.0 | 1602.3 | 1495.0 | 1407.7 | 1389.1 | 1387.7 |
| 60°   | 6655.2  | 2792.5 | 1300.4 | 1164.5 | 1316.2 | 1525.0 | 1545.1 | 1446.3 | 1361.9 | 1357.6 | 1356.2 |
| 62.5° | 7801.1  | 3135.9 | 1176.0 | 1068.7 | 1223.2 | 1404.9 | 1462.1 | 1380.5 | 1313.3 | 1334.8 | 1337.6 |
| 65°   | 9383.4  | 3424.9 | 1047.2 | 987.1  | 1120.2 | 1289.0 | 1383.4 | 1319.0 | 1258.9 | 1300.4 | 1300.4 |
| 67.5° | 10414.8 | 3430.6 | 929.9  | 902.7  | 1015.7 | 1191.7 | 1300.4 | 1246.1 | 1188.8 | 1258.9 | 1261.8 |
| 70°   | 10200.2 | 3005.7 | 832.6  | 814.0  | 914.2  | 1087.3 | 1208.9 | 1165.9 | 1100.1 | 1163.1 | 1140.2 |
| 71°   | 9854.0  | 2769.7 | 794.0  | 779.7  | 874.1  | 1037.2 | 1165.9 | 1130.2 | 1064.4 | 1105.9 | 1093.0 |
| 72.5° | 9301.8  | 2404.9 | 731.0  | 733.9  | 814.0  | 974.2  | 1105.9 | 1068.7 | 1002.9 | 1025.7 | 1021.5 |
| 75°   | 7862.6  | 2100.1 | 625.2  | 638.1  | 699.6  | 866.9  | 985.7  | 957.1  | 889.8  | 889.8  | 885.5  |
| 77.5° | 4915.6  | 1467.8 | 519.3  | 526.5  | 593.7  | 742.5  | 846.9  | 822.6  | 758.2  | 736.8  | 731.0  |
| 80°   | 1834.0  | 758.2  | 406.3  | 414.9  | 456.4  | 585.1  | 701.0  | 678.1  | 612.3  | 588.0  | 565.1  |
| 82.5° | 693.8   | 380.5  | 299.0  | 291.8  | 336.2  | 446.3  | 549.4  | 522.2  | 470.7  | 412.0  | 394.8  |
| 85°   | 261.8   | 188.8  | 183.1  | 177.4  | 197.4  | 264.7  | 340.5  | 334.8  | 280.4  | 238.9  | 234.6  |
| 87.5° | 68.7    | 61.5   | 71.5   | 52.9   | 55.8   | 50.1   | 51.5   | 21.5   | 10.0   | 4.3    | 2.9    |
| 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)