

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: P451803

Luminaire Tested: **GLAN-SA2D-722-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451803  
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-SA2D-722-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11501 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 125  
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

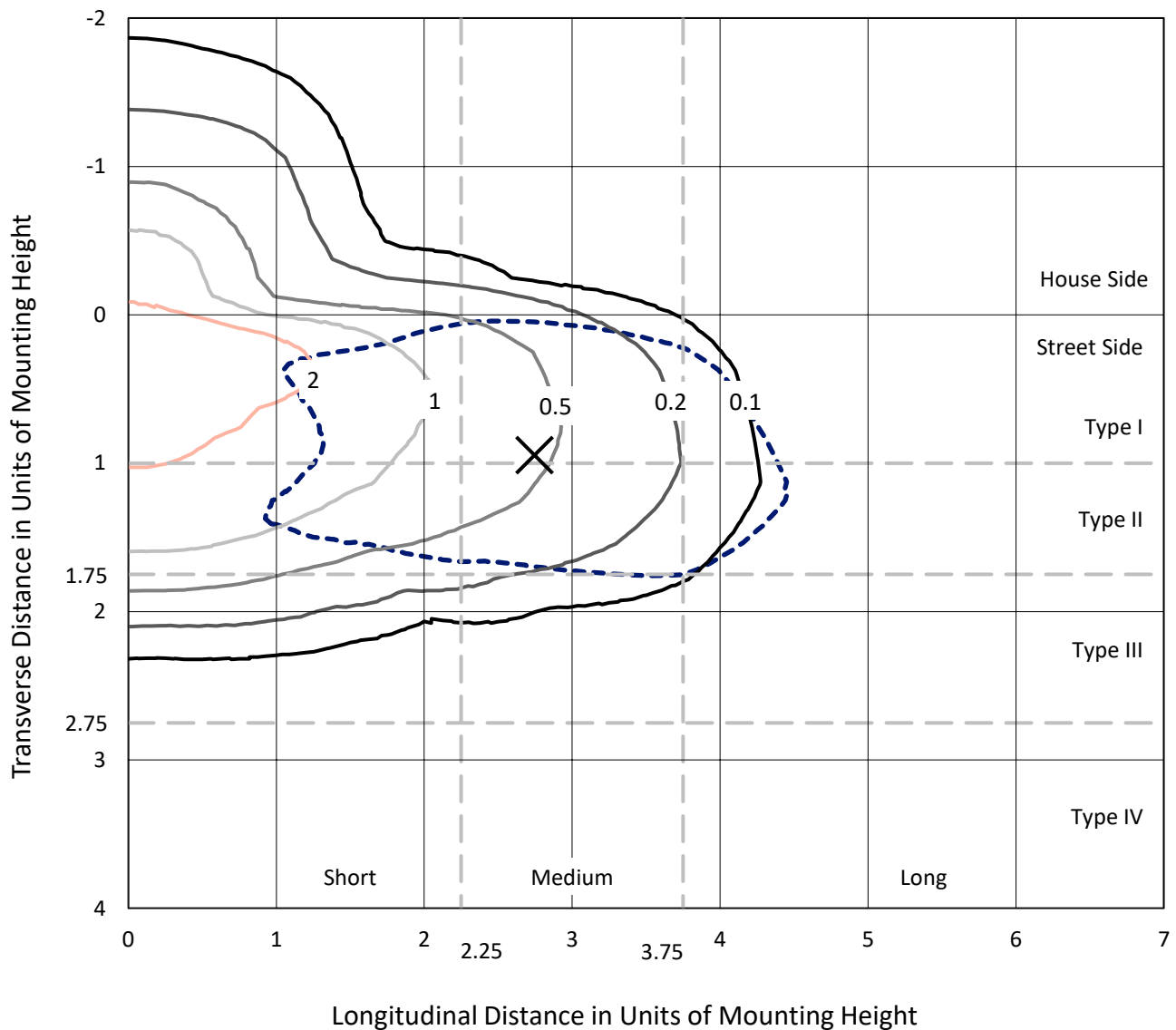


REPORT NUMBER: P451803

CATALOG NUMBER: GLAN-SA2D-722-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

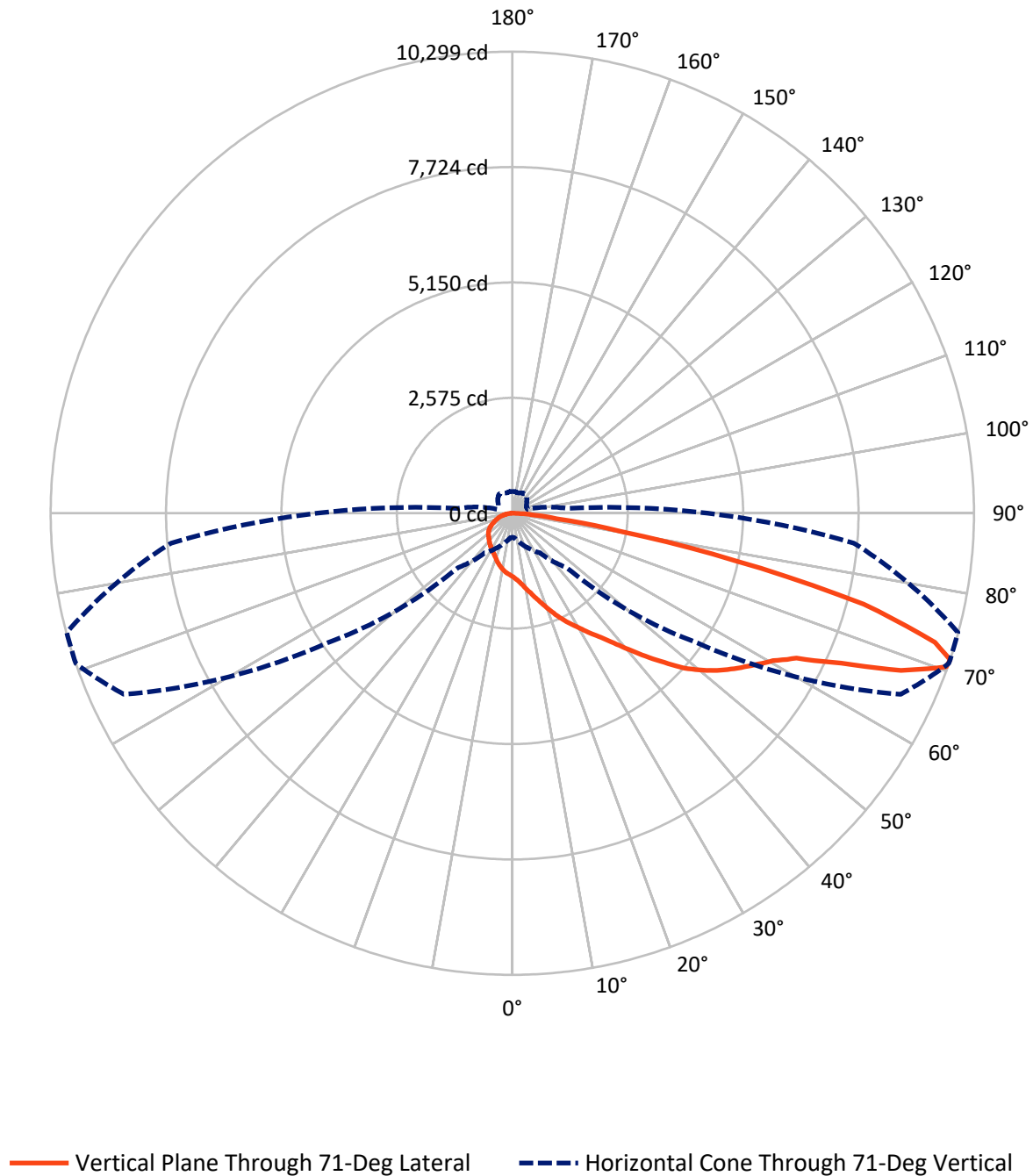


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P451803

CATALOG NUMBER: GLAN-SA2D-722-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P451803

CATALOG NUMBER: GLAN-SA2D-722-U-T2

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2068.4   | 0.0    | 2068.4  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 9432.6   | 0.0    | 9432.6  |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 11501.0  | 0.0    | 11501.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 141.7   | 1.2       |
| 10°-20°   | 460.5   | 4.0       |
| 20°-30°   | 804.7   | 7.0       |
| 30°-40°   | 1196.9  | 10.4      |
| 40°-50°   | 1763.4  | 15.3      |
| 50°-60°   | 2468.8  | 21.5      |
| 60°-70°   | 2761.3  | 24.0      |
| 70°-80°   | 1686.7  | 14.7      |
| 80°-90°   | 217.0   | 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°    | 11501.0 | 100.0     |
| 0°-180°   | 11501.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P451803

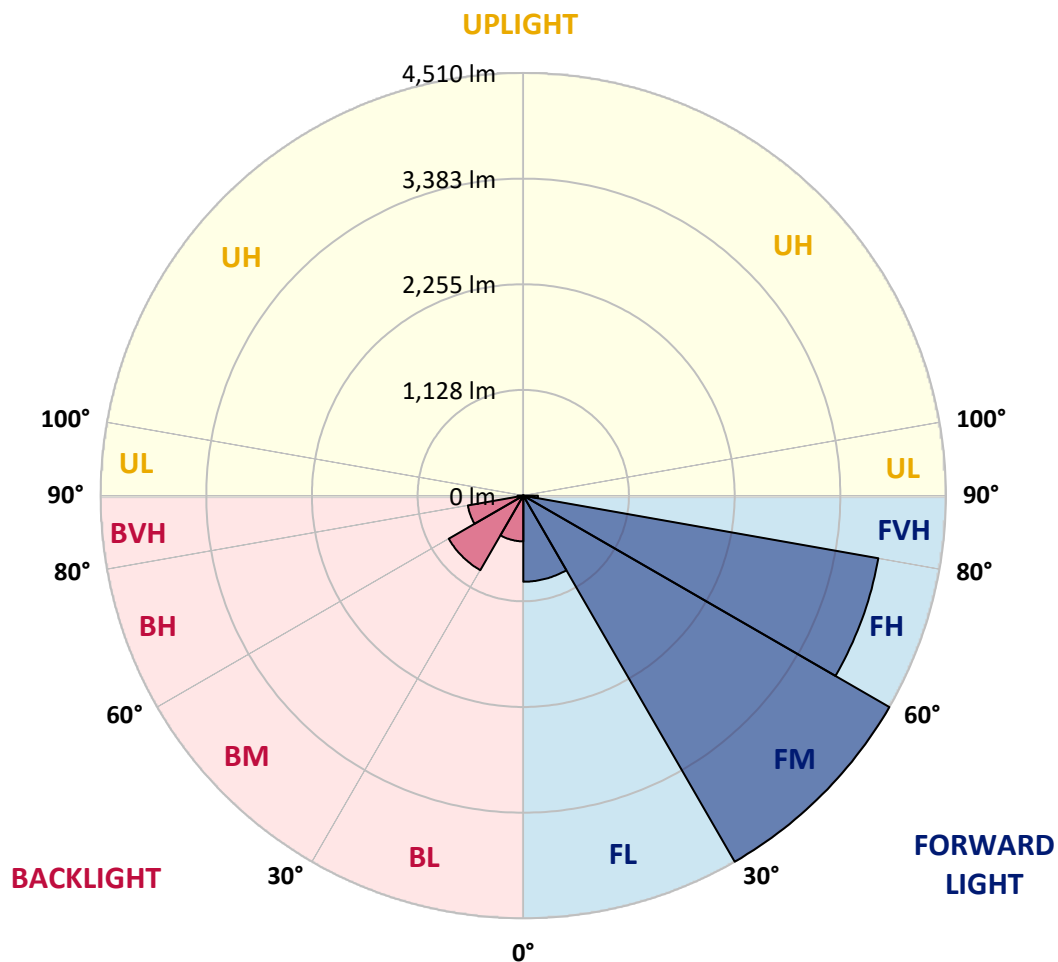
CATALOG NUMBER: GLAN-SA2D-722-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 918.9  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 4510.5 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 3847.1 | 33.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 156.1  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 487.9  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 918.7  | 8.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 601.0  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 60.9   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium





REPORT NUMBER: P451803

CATALOG NUMBER: GLAN-SA2D-722-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 71°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5  | 1411.5  | 1411.5 |
| 2.5°  | 1567.0 | 1559.4 | 1560.1 | 1549.3 | 1535.4 | 1520.2 | 1498.8 | 1479.8 | 1464.6  | 1455.8  | 1429.9 |
| 5°    | 1736.4 | 1728.8 | 1719.4 | 1696.0 | 1685.9 | 1648.6 | 1601.2 | 1558.2 | 1525.3  | 1507.0  | 1455.1 |
| 7.5°  | 1873.6 | 1871.7 | 1869.2 | 1855.9 | 1830.0 | 1778.1 | 1737.7 | 1663.1 | 1614.4  | 1579.7  | 1491.2 |
| 10°   | 1958.3 | 1961.5 | 1963.4 | 1965.9 | 1955.1 | 1928.0 | 1872.3 | 1778.1 | 1716.2  | 1672.0  | 1537.9 |
| 12.5° | 2001.3 | 2004.4 | 2015.2 | 2038.6 | 2053.1 | 2050.0 | 2004.4 | 1912.2 | 1826.8  | 1768.7  | 1587.9 |
| 15°   | 2027.8 | 2032.9 | 2051.9 | 2082.8 | 2131.5 | 2162.5 | 2140.4 | 2055.0 | 1961.5  | 1892.6  | 1647.3 |
| 17.5° | 2056.9 | 2062.6 | 2083.5 | 2127.7 | 2191.6 | 2258.6 | 2282.6 | 2209.3 | 2107.5  | 2025.3  | 1713.7 |
| 20°   | 2073.3 | 2080.9 | 2110.6 | 2168.8 | 2243.4 | 2340.7 | 2420.4 | 2381.8 | 2270.6  | 2179.5  | 1790.2 |
| 22.5° | 2099.9 | 2106.2 | 2131.5 | 2193.5 | 2282.6 | 2404.6 | 2558.2 | 2550.0 | 2452.0  | 2334.4  | 1874.2 |
| 25°   | 2172.0 | 2182.1 | 2194.7 | 2232.0 | 2318.0 | 2469.7 | 2672.6 | 2729.5 | 2627.7  | 2496.2  | 1951.4 |
| 27.5° | 2307.9 | 2316.1 | 2315.5 | 2320.5 | 2369.2 | 2525.9 | 2771.8 | 2907.1 | 2802.2  | 2660.0  | 2025.9 |
| 30°   | 2462.7 | 2465.9 | 2468.4 | 2457.0 | 2467.8 | 2583.5 | 2862.9 | 3082.8 | 2977.9  | 2828.1  | 2091.0 |
| 32.5° | 2651.1 | 2657.4 | 2635.9 | 2606.9 | 2598.0 | 2668.8 | 2938.1 | 3258.6 | 3185.9  | 2998.8  | 2155.5 |
| 35°   | 2873.6 | 2890.0 | 2846.4 | 2795.2 | 2759.2 | 2791.4 | 3039.2 | 3438.1 | 3398.9  | 3216.9  | 2240.9 |
| 37.5° | 3127.7 | 3148.0 | 3107.5 | 3007.0 | 2955.8 | 2964.6 | 3171.3 | 3660.0 | 3668.2  | 3465.3  | 2367.9 |
| 40°   | 3335.7 | 3362.2 | 3363.5 | 3221.3 | 3143.5 | 3153.6 | 3338.9 | 3898.9 | 3993.1  | 3772.5  | 2517.7 |
| 42.5° | 3472.9 | 3498.8 | 3526.0 | 3442.5 | 3361.0 | 3418.5 | 3534.2 | 4158.1 | 4358.5  | 4145.4  | 2727.0 |
| 45°   | 3623.3 | 3646.7 | 3661.9 | 3623.9 | 3578.4 | 3727.6 | 3770.0 | 4433.7 | 4747.8  | 4562.0  | 2955.8 |
| 47.5° | 3797.8 | 3823.7 | 3838.2 | 3802.2 | 3785.1 | 3998.8 | 4024.1 | 4691.0 | 5163.8  | 4966.6  | 3208.6 |
| 50°   | 4030.4 | 4050.0 | 4042.4 | 4019.6 | 4015.8 | 4206.7 | 4268.1 | 4931.8 | 5507.0  | 5402.1  | 3471.0 |
| 52.5° | 4319.9 | 4343.3 | 4351.5 | 4319.3 | 4304.7 | 4355.3 | 4464.7 | 5151.1 | 5819.3  | 5776.3  | 3751.0 |
| 55°   | 4495.0 | 4532.3 | 4657.5 | 4708.0 | 4742.8 | 4547.5 | 4676.4 | 5393.2 | 6099.3  | 6170.7  | 4051.9 |
| 57.5° | 4270.6 | 4318.6 | 4598.7 | 4851.5 | 5178.3 | 5027.9 | 4976.7 | 5646.1 | 6379.3  | 6553.2  | 4412.2 |
| 60°   | 3723.2 | 3733.9 | 4094.9 | 4560.7 | 5218.1 | 5645.5 | 5603.1 | 6048.1 | 6682.8  | 6938.8  | 4886.9 |
| 62.5° | 2582.8 | 2605.6 | 3032.3 | 3775.6 | 4726.4 | 5868.0 | 6668.9 | 6742.2 | 7117.7  | 7515.9  | 5582.9 |
| 65°   | 1331.9 | 1302.2 | 1690.9 | 2373.0 | 3563.3 | 5339.5 | 7532.3 | 8018.4 | 8060.8  | 8418.6  | 6562.7 |
| 67.5° | 819.9  | 833.1  | 1015.2 | 1385.6 | 2106.9 | 3880.6 | 7441.9 | 9577.9 | 9354.7  | 9526.7  | 7472.3 |
| 70°   | 615.7  | 632.1  | 757.3  | 948.2  | 1284.5 | 2218.7 | 5984.9 | 9955.9 | 10267.5 | 10223.3 | 7749.1 |
| 71°   | 535.4  | 552.5  | 682.7  | 862.8  | 1079.0 | 1712.4 | 5042.4 | 9560.2 | 10299.1 | 10291.5 | 7644.8 |
| 72.5° | 456.4  | 467.1  | 568.9  | 730.7  | 909.6  | 1200.4 | 3788.3 | 8574.1 | 9859.8  | 10112.0 | 7272.5 |
| 75°   | 358.4  | 366.6  | 412.1  | 557.5  | 716.2  | 737.1  | 2032.9 | 6428.0 | 8098.1  | 8578.5  | 6054.4 |
| 77.5° | 292.0  | 297.7  | 321.1  | 414.0  | 552.5  | 522.1  | 1066.4 | 4184.0 | 5073.4  | 5557.0  | 3566.4 |
| 80°   | 232.0  | 238.3  | 252.2  | 280.7  | 414.0  | 372.3  | 508.9  | 2120.1 | 2450.7  | 2445.7  | 1423.5 |
| 82.5° | 180.2  | 182.1  | 198.5  | 206.1  | 283.2  | 264.2  | 275.6  | 897.6  | 994.3   | 1027.2  | 513.9  |
| 85°   | 113.8  | 119.5  | 175.7  | 158.0  | 169.4  | 154.9  | 135.9  | 356.5  | 439.3   | 433.0   | 205.4  |
| 87.5° | 34.8   | 36.7   | 59.4   | 67.0   | 75.2   | 67.6   | 49.9   | 104.9  | 128.3   | 139.1   | 51.2   |
| 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: P451803

CATALOG NUMBER: GLAN-SA2D-722-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 | 1411.5 |
| 2.5°  | 1419.7 | 1412.8 | 1388.1 | 1367.9 | 1348.9 | 1328.1 | 1310.4 | 1305.3 | 1300.9 | 1299.0 | 1298.4 |
| 5°    | 1433.0 | 1412.2 | 1363.5 | 1323.7 | 1292.1 | 1263.0 | 1244.6 | 1236.4 | 1228.2 | 1228.2 | 1230.7 |
| 7.5°  | 1452.0 | 1414.0 | 1338.8 | 1279.4 | 1239.6 | 1212.4 | 1199.1 | 1197.9 | 1199.8 | 1201.7 | 1202.3 |
| 10°   | 1472.8 | 1412.8 | 1302.8 | 1228.8 | 1193.4 | 1180.8 | 1181.4 | 1192.2 | 1202.3 | 1209.9 | 1211.1 |
| 12.5° | 1493.1 | 1405.2 | 1260.4 | 1181.4 | 1158.7 | 1161.2 | 1178.9 | 1202.9 | 1222.5 | 1233.3 | 1233.9 |
| 15°   | 1515.8 | 1393.2 | 1209.2 | 1136.5 | 1129.0 | 1148.6 | 1181.4 | 1218.1 | 1247.8 | 1265.5 | 1267.4 |
| 17.5° | 1534.8 | 1373.0 | 1155.5 | 1092.9 | 1102.4 | 1138.4 | 1184.0 | 1231.4 | 1267.4 | 1289.5 | 1293.3 |
| 20°   | 1556.3 | 1347.0 | 1099.9 | 1051.2 | 1078.4 | 1127.1 | 1178.9 | 1230.1 | 1267.4 | 1288.9 | 1293.9 |
| 22.5° | 1573.3 | 1310.4 | 1046.8 | 1017.1 | 1056.9 | 1113.2 | 1161.8 | 1202.9 | 1233.3 | 1244.6 | 1252.2 |
| 25°   | 1580.3 | 1264.2 | 996.9  | 989.3  | 1039.8 | 1090.4 | 1123.3 | 1146.7 | 1156.1 | 1154.9 | 1158.0 |
| 27.5° | 1576.5 | 1211.1 | 953.9  | 967.1  | 1018.3 | 1055.0 | 1071.4 | 1069.5 | 1052.5 | 1036.7 | 1044.3 |
| 30°   | 1560.7 | 1147.9 | 917.8  | 944.4  | 990.5  | 1010.8 | 1008.2 | 983.6  | 951.3  | 921.6  | 923.5  |
| 32.5° | 1532.3 | 1079.7 | 884.3  | 918.5  | 951.3  | 960.2  | 943.1  | 910.9  | 864.7  | 826.2  | 820.5  |
| 35°   | 1508.2 | 1014.6 | 854.6  | 888.8  | 912.1  | 907.7  | 891.3  | 849.6  | 807.8  | 773.7  | 768.0  |
| 37.5° | 1504.4 | 958.9  | 826.2  | 855.3  | 868.5  | 862.2  | 842.0  | 806.6  | 791.4  | 765.5  | 762.3  |
| 40°   | 1524.7 | 919.7  | 797.1  | 819.9  | 826.2  | 821.1  | 799.0  | 778.8  | 792.7  | 786.4  | 786.4  |
| 42.5° | 1579.7 | 898.9  | 771.2  | 784.5  | 789.5  | 793.3  | 777.5  | 760.4  | 777.5  | 748.4  | 738.9  |
| 45°   | 1666.9 | 899.5  | 747.8  | 749.7  | 764.9  | 778.1  | 767.4  | 742.1  | 733.3  | 675.1  | 663.7  |
| 47.5° | 1795.2 | 921.0  | 728.8  | 716.8  | 744.0  | 766.1  | 751.0  | 714.3  | 675.1  | 636.5  | 629.6  |
| 50°   | 1945.0 | 959.6  | 711.8  | 682.7  | 716.2  | 751.0  | 739.6  | 696.6  | 656.1  | 632.8  | 628.3  |
| 52.5° | 2111.3 | 1008.2 | 690.9  | 644.8  | 682.1  | 744.0  | 742.1  | 694.1  | 638.4  | 622.6  | 618.8  |
| 55°   | 2316.7 | 1056.3 | 665.0  | 600.5  | 651.7  | 738.3  | 735.2  | 673.2  | 634.6  | 623.3  | 622.0  |
| 57.5° | 2555.7 | 1125.8 | 627.7  | 555.6  | 616.9  | 714.9  | 708.0  | 660.6  | 622.0  | 613.8  | 613.2  |
| 60°   | 2940.6 | 1233.9 | 574.6  | 514.5  | 581.5  | 673.8  | 682.7  | 639.1  | 601.8  | 599.9  | 599.2  |
| 62.5° | 3446.9 | 1385.6 | 519.6  | 472.2  | 540.5  | 620.7  | 646.0  | 610.0  | 580.3  | 589.8  | 591.0  |
| 65°   | 4146.1 | 1513.3 | 462.7  | 436.2  | 494.9  | 569.5  | 611.3  | 582.8  | 556.3  | 574.6  | 574.6  |
| 67.5° | 4601.8 | 1515.8 | 410.9  | 398.9  | 448.8  | 526.6  | 574.6  | 550.6  | 525.3  | 556.3  | 557.5  |
| 70°   | 4507.0 | 1328.1 | 367.9  | 359.7  | 403.9  | 480.4  | 534.1  | 515.2  | 486.1  | 513.9  | 503.8  |
| 71°   | 4354.0 | 1223.8 | 350.8  | 344.5  | 386.2  | 458.3  | 515.2  | 499.4  | 470.3  | 488.6  | 482.9  |
| 72.5° | 4110.0 | 1062.6 | 323.0  | 324.3  | 359.7  | 430.5  | 488.6  | 472.2  | 443.1  | 453.2  | 451.3  |
| 75°   | 3474.1 | 928.0  | 276.2  | 281.9  | 309.1  | 383.1  | 435.5  | 422.9  | 393.2  | 393.2  | 391.3  |
| 77.5° | 2172.0 | 648.6  | 229.5  | 232.6  | 262.3  | 328.1  | 374.2  | 363.5  | 335.0  | 325.5  | 323.0  |
| 80°   | 810.4  | 335.0  | 179.5  | 183.3  | 201.6  | 258.5  | 309.7  | 299.6  | 270.5  | 259.8  | 249.7  |
| 82.5° | 306.6  | 168.1  | 132.1  | 129.0  | 148.5  | 197.2  | 242.7  | 230.7  | 208.0  | 182.1  | 174.5  |
| 85°   | 115.7  | 83.4   | 80.9   | 78.4   | 87.2   | 116.9  | 150.4  | 147.9  | 123.9  | 105.6  | 103.7  |
| 87.5° | 30.3   | 27.2   | 31.6   | 23.4   | 24.7   | 22.1   | 22.8   | 9.5    | 4.4    | 1.9    | 1.3    |
| 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)