

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: P452956

Luminaire Tested: **GLAN-SA4A-722-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-722-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13017 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 121  
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



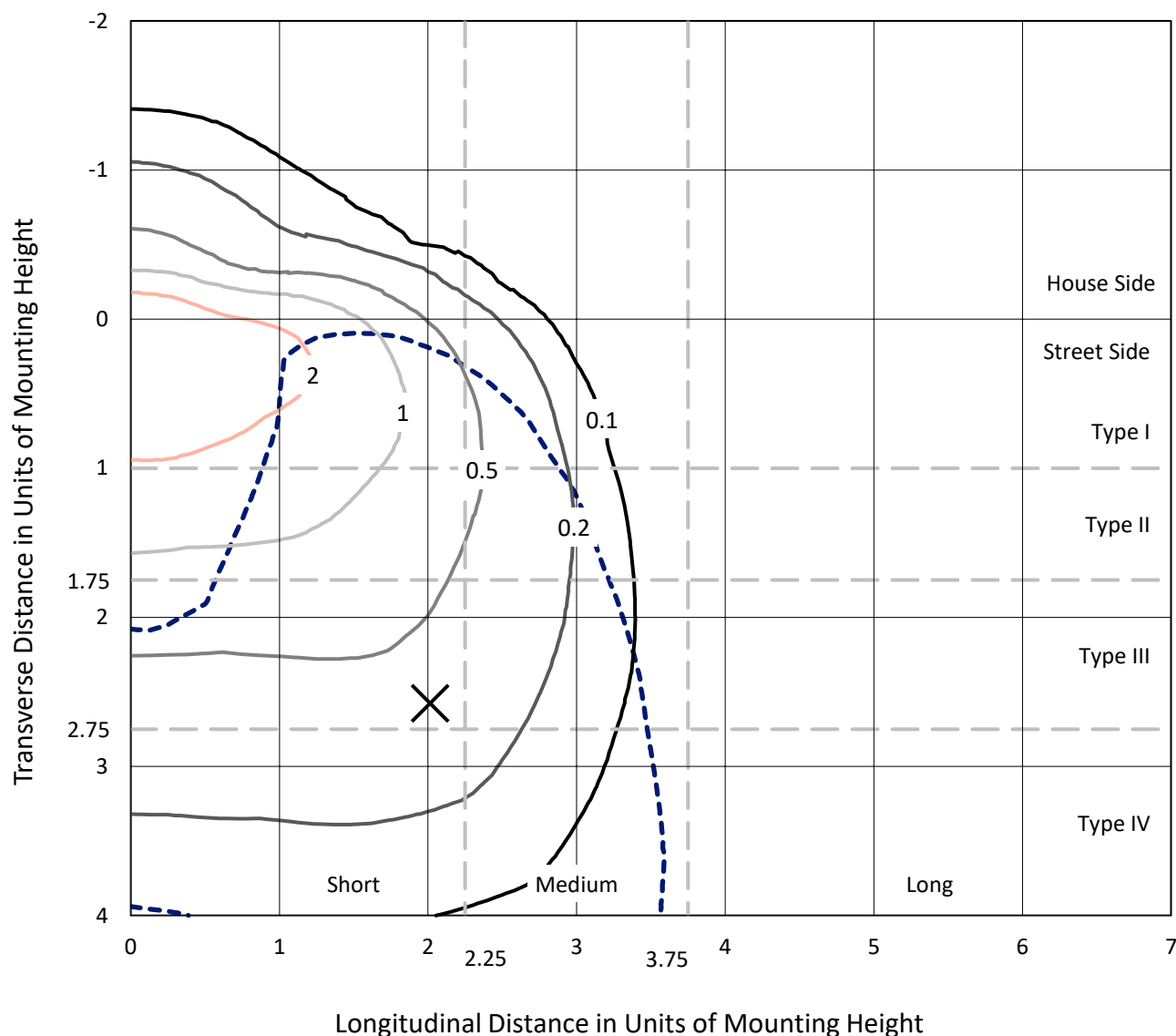
REPORT NUMBER: P452956

CATALOG NUMBER: GLAN-SA4A-722-U-SL4

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



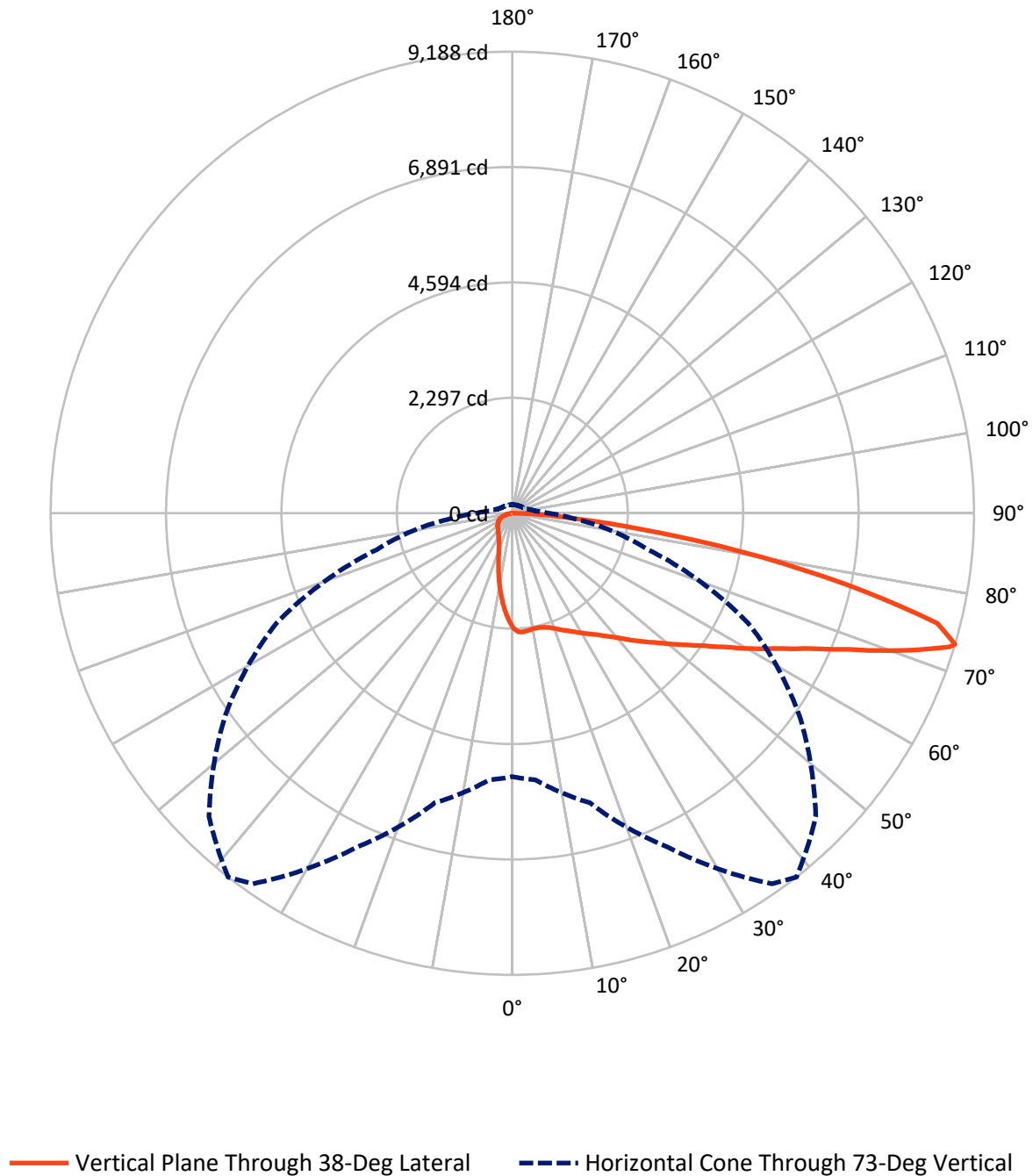
Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type IV - Short - N/A

REPORT NUMBER: P452956

CATALOG NUMBER: GLAN-SA4A-722-U-SL4

## Luminous Intensity Polar Plot



REPORT NUMBER: P452956

CATALOG NUMBER: GLAN-SA4A-722-U-SL4

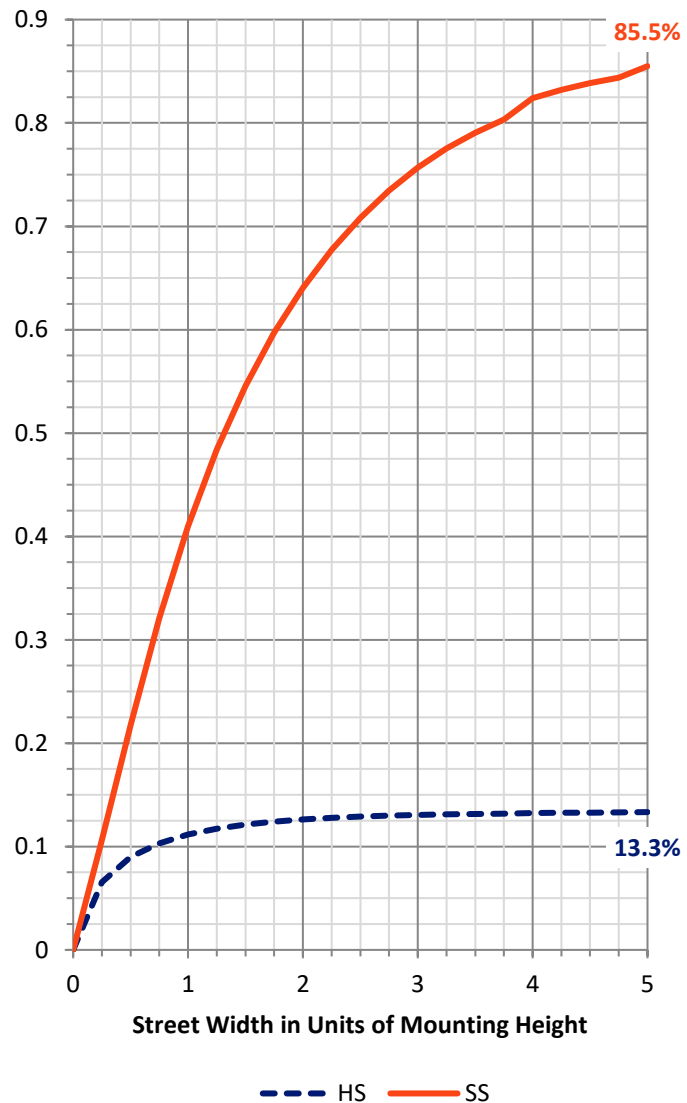
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1749.9   | 0.0    | 1749.9  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 11267.1  | 0.0    | 11267.1 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 13017.0  | 0.0    | 13017.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.6   | 1.5       |
| 10°-20°   | 511.9   | 3.9       |
| 20°-30°   | 797.1   | 6.1       |
| 30°-40°   | 1169.2  | 9.0       |
| 40°-50°   | 1734.3  | 13.3      |
| 50°-60°   | 2457.2  | 18.9      |
| 60°-70°   | 3117.0  | 23.9      |
| 70°-80°   | 2594.7  | 19.9      |
| 80°-90°   | 435.9   | 3.3       |
| 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°    | 13017.0 | 100.0     |
| 0°-180°   | 13017.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452956

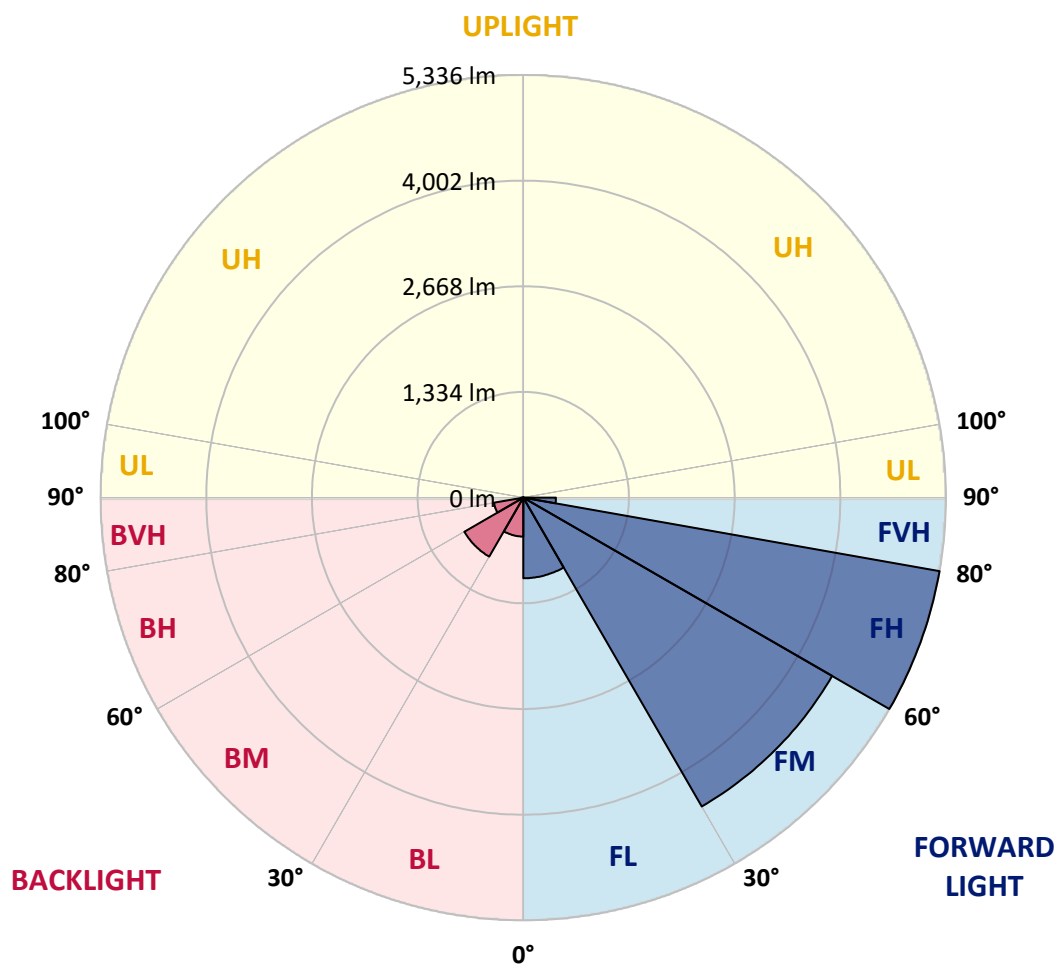
CATALOG NUMBER: GLAN-SA4A-722-U-SL4

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1017.6 | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 4501.6 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 5335.6 | 41.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 412.3  | 3.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 491.0  | 3.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 859.1  | 6.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 376.1  | 2.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 23.6   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P452956

CATALOG NUMBER: GLAN-SA4A-722-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 |
| 2.5°  | 2378.8 | 2390.5 | 2384.6 | 2376.5 | 2371.4 | 2366.3 | 2358.9 | 2337.6 | 2320.7 | 2302.3 | 2273.6 |
| 5°    | 2396.4 | 2403.7 | 2398.6 | 2388.3 | 2376.5 | 2371.4 | 2357.4 | 2329.5 | 2302.3 | 2271.4 | 2228.8 |
| 7.5°  | 2386.1 | 2389.0 | 2383.2 | 2370.7 | 2360.4 | 2350.8 | 2334.6 | 2303.8 | 2270.7 | 2233.2 | 2177.3 |
| 10°   | 2349.3 | 2360.4 | 2360.4 | 2350.1 | 2339.8 | 2334.6 | 2318.5 | 2289.1 | 2258.9 | 2216.3 | 2150.1 |
| 12.5° | 2319.2 | 2331.0 | 2340.5 | 2337.6 | 2336.9 | 2336.9 | 2324.4 | 2302.3 | 2267.0 | 2226.6 | 2147.9 |
| 15°   | 2298.6 | 2312.6 | 2333.2 | 2344.9 | 2352.3 | 2354.5 | 2349.3 | 2330.2 | 2294.2 | 2247.2 | 2156.8 |
| 17.5° | 2294.2 | 2311.1 | 2348.6 | 2374.3 | 2393.5 | 2392.7 | 2391.2 | 2364.8 | 2325.1 | 2276.6 | 2167.8 |
| 20°   | 2314.1 | 2336.1 | 2388.3 | 2428.7 | 2456.7 | 2451.5 | 2443.4 | 2408.9 | 2362.6 | 2308.2 | 2178.1 |
| 22.5° | 2373.6 | 2396.4 | 2453.7 | 2497.8 | 2525.0 | 2525.0 | 2500.8 | 2455.2 | 2406.0 | 2344.9 | 2192.0 |
| 25°   | 2458.9 | 2483.9 | 2544.9 | 2589.7 | 2602.2 | 2592.7 | 2568.4 | 2513.3 | 2456.7 | 2397.9 | 2221.4 |
| 27.5° | 2563.3 | 2593.4 | 2650.0 | 2687.5 | 2683.8 | 2676.5 | 2651.5 | 2580.9 | 2524.3 | 2470.6 | 2271.4 |
| 30°   | 2693.4 | 2715.4 | 2774.2 | 2783.1 | 2769.8 | 2768.4 | 2733.1 | 2662.5 | 2609.6 | 2568.4 | 2342.7 |
| 32.5° | 2816.1 | 2836.0 | 2883.0 | 2886.7 | 2863.2 | 2866.1 | 2833.0 | 2768.4 | 2738.2 | 2723.5 | 2462.6 |
| 35°   | 2946.2 | 2956.5 | 2997.0 | 2992.6 | 2977.1 | 2974.9 | 2961.7 | 2899.9 | 2909.5 | 2936.0 | 2632.4 |
| 37.5° | 3055.0 | 3075.6 | 3098.4 | 3102.1 | 3101.3 | 3108.7 | 3117.5 | 3088.1 | 3143.2 | 3226.3 | 2855.1 |
| 40°   | 3155.0 | 3172.7 | 3206.5 | 3218.2 | 3246.9 | 3261.6 | 3291.7 | 3292.5 | 3419.6 | 3556.4 | 3129.3 |
| 42.5° | 3222.6 | 3252.8 | 3316.0 | 3337.3 | 3407.1 | 3451.2 | 3496.1 | 3543.9 | 3728.4 | 3904.1 | 3452.7 |
| 45°   | 3281.4 | 3321.1 | 3426.3 | 3492.4 | 3587.2 | 3640.9 | 3735.7 | 3835.7 | 4101.1 | 4331.2 | 3781.3 |
| 47.5° | 3370.4 | 3405.7 | 3526.2 | 3643.1 | 3786.5 | 3848.2 | 3990.1 | 4139.3 | 4486.3 | 4738.4 | 4095.9 |
| 50°   | 3493.9 | 3515.2 | 3638.0 | 3828.4 | 4011.4 | 4090.8 | 4278.2 | 4493.6 | 4897.9 | 5140.5 | 4372.3 |
| 52.5° | 3651.9 | 3660.8 | 3758.5 | 4012.1 | 4253.2 | 4351.7 | 4600.2 | 4851.6 | 5258.1 | 5489.7 | 4591.4 |
| 55°   | 3838.6 | 3823.9 | 3900.4 | 4206.9 | 4529.6 | 4658.3 | 4925.1 | 5214.0 | 5663.1 | 5771.9 | 4750.9 |
| 57.5° | 4023.1 | 4000.4 | 4061.4 | 4443.6 | 4870.7 | 5025.8 | 5336.8 | 5587.4 | 6024.8 | 6035.8 | 4862.6 |
| 60°   | 4218.7 | 4201.8 | 4274.6 | 4721.5 | 5289.0 | 5472.7 | 5760.2 | 5974.8 | 6374.7 | 6219.6 | 4880.3 |
| 62.5° | 4419.4 | 4392.2 | 4495.8 | 5033.9 | 5760.2 | 5927.0 | 6205.6 | 6386.5 | 6718.0 | 6288.0 | 4710.5 |
| 65°   | 4614.2 | 4601.7 | 4761.9 | 5405.1 | 6296.8 | 6486.4 | 6757.0 | 6879.7 | 6992.9 | 6185.1 | 4289.3 |
| 67.5° | 4821.5 | 4846.5 | 5102.3 | 5900.6 | 6996.6 | 7234.8 | 7526.6 | 7411.2 | 7071.6 | 5697.7 | 3612.2 |
| 70°   | 5137.5 | 5153.7 | 5549.2 | 6549.7 | 7898.5 | 8186.0 | 8327.1 | 7600.1 | 6692.3 | 4772.2 | 2715.4 |
| 72.5° | 5273.5 | 5344.8 | 5948.4 | 7231.1 | 8923.3 | 9098.9 | 8596.1 | 7178.9 | 5574.9 | 3241.7 | 1426.8 |
| 73°   | 5243.4 | 5328.7 | 5966.7 | 7334.7 | 9003.4 | 9187.9 | 8538.8 | 6962.0 | 5182.4 | 2791.9 | 1223.2 |
| 75°   | 4867.8 | 4972.9 | 5727.8 | 7248.0 | 8847.5 | 8737.3 | 7617.0 | 5933.6 | 3502.0 | 1269.5 | 557.2  |
| 77.5° | 3840.8 | 3871.0 | 4538.4 | 5852.8 | 6967.2 | 6762.8 | 5700.6 | 3708.5 | 1430.5 | 471.9  | 316.1  |
| 80°   | 1926.7 | 2037.7 | 2558.1 | 3352.7 | 4659.0 | 4592.1 | 3598.3 | 1753.9 | 596.2  | 277.1  | 209.5  |
| 82.5° | 926.9  | 1005.6 | 1246.0 | 1634.8 | 2574.3 | 2513.3 | 1781.9 | 958.6  | 378.6  | 161.7  | 123.5  |
| 85°   | 596.9  | 655.7  | 793.2  | 779.9  | 1058.5 | 1010.7 | 800.5  | 725.5  | 224.2  | 84.5   | 86.0   |
| 87.5° | 394.0  | 431.5  | 517.5  | 413.9  | 385.2  | 348.4  | 353.6  | 408.7  | 44.1   | 32.3   | 11.8   |
| 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: P452956

CATALOG NUMBER: GLAN-SA4A-722-U-SL4

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 | 2286.9 |
| 2.5°  | 2261.9 | 2252.3 | 2220.7 | 2189.8 | 2160.4 | 2132.5 | 2114.1 | 2089.9 | 2073.7 | 2078.1 | 2084.7 |
| 5°    | 2205.3 | 2184.0 | 2128.1 | 2073.7 | 2022.2 | 1961.2 | 1912.0 | 1872.3 | 1842.1 | 1831.1 | 1828.9 |
| 7.5°  | 2145.7 | 2109.7 | 2029.6 | 1936.2 | 1848.8 | 1773.0 | 1685.6 | 1642.2 | 1591.5 | 1573.8 | 1567.9 |
| 10°   | 2109.7 | 2061.2 | 1948.7 | 1818.6 | 1687.0 | 1561.3 | 1466.5 | 1389.3 | 1319.5 | 1306.3 | 1299.6 |
| 12.5° | 2099.4 | 2035.5 | 1884.0 | 1716.4 | 1541.5 | 1387.1 | 1246.7 | 1145.3 | 1077.6 | 1062.2 | 1039.4 |
| 15°   | 2093.5 | 2014.1 | 1823.8 | 1613.5 | 1391.5 | 1203.3 | 1055.6 | 937.2  | 875.5  | 834.3  | 835.1  |
| 17.5° | 2088.4 | 1989.9 | 1756.1 | 1501.1 | 1262.2 | 1045.3 | 882.1  | 775.5  | 718.9  | 696.9  | 694.7  |
| 20°   | 2081.0 | 1961.2 | 1678.2 | 1382.7 | 1114.4 | 901.2  | 753.5  | 674.1  | 635.9  | 617.5  | 616.7  |
| 22.5° | 2078.1 | 1933.3 | 1601.8 | 1262.2 | 983.6  | 790.2  | 668.2  | 612.3  | 588.1  | 575.6  | 575.6  |
| 25°   | 2085.5 | 1913.4 | 1521.6 | 1147.5 | 867.4  | 695.4  | 609.4  | 571.2  | 557.2  | 550.6  | 548.4  |
| 27.5° | 2108.2 | 1904.6 | 1442.2 | 1032.8 | 760.8  | 630.7  | 569.7  | 543.2  | 532.9  | 527.8  | 528.5  |
| 30°   | 2151.6 | 1903.9 | 1364.3 | 919.6  | 681.4  | 581.5  | 538.1  | 519.7  | 511.6  | 508.7  | 507.9  |
| 32.5° | 2221.4 | 1920.1 | 1287.9 | 826.2  | 614.5  | 540.3  | 508.7  | 495.5  | 491.8  | 489.6  | 488.8  |
| 35°   | 2339.8 | 1965.6 | 1212.2 | 741.0  | 563.1  | 503.5  | 480.7  | 474.1  | 469.0  | 471.2  | 471.9  |
| 37.5° | 2499.3 | 2044.3 | 1140.1 | 674.1  | 524.1  | 476.3  | 457.2  | 451.3  | 448.4  | 450.6  | 452.8  |
| 40°   | 2713.2 | 2157.5 | 1079.8 | 620.4  | 496.2  | 453.6  | 436.6  | 431.5  | 428.6  | 432.2  | 433.0  |
| 42.5° | 2949.2 | 2288.3 | 1029.9 | 578.5  | 473.4  | 434.4  | 418.3  | 412.4  | 410.2  | 412.4  | 413.1  |
| 45°   | 3191.8 | 2440.5 | 1004.1 | 548.4  | 454.3  | 420.5  | 403.6  | 396.9  | 391.8  | 390.3  | 392.5  |
| 47.5° | 3430.7 | 2572.8 | 1003.4 | 530.0  | 438.8  | 408.0  | 389.6  | 382.2  | 375.6  | 372.0  | 371.2  |
| 50°   | 3625.5 | 2677.9 | 1021.0 | 521.9  | 425.6  | 394.0  | 375.6  | 368.3  | 359.5  | 352.1  | 353.6  |
| 52.5° | 3772.5 | 2746.3 | 1029.1 | 518.2  | 418.3  | 379.3  | 360.9  | 354.3  | 344.0  | 334.5  | 334.5  |
| 55°   | 3867.3 | 2762.5 | 1009.3 | 514.6  | 412.4  | 363.9  | 344.0  | 338.1  | 327.9  | 318.3  | 318.3  |
| 57.5° | 3899.7 | 2712.5 | 938.0  | 505.7  | 406.5  | 350.6  | 327.1  | 322.0  | 313.9  | 304.3  | 302.9  |
| 60°   | 3824.7 | 2543.4 | 813.0  | 479.3  | 394.7  | 336.7  | 308.7  | 306.5  | 303.6  | 295.5  | 294.8  |
| 62.5° | 3535.8 | 2184.7 | 677.0  | 444.7  | 374.9  | 322.0  | 291.8  | 295.5  | 297.7  | 293.3  | 292.6  |
| 65°   | 3055.0 | 1773.8 | 578.5  | 396.9  | 348.4  | 301.4  | 273.5  | 283.0  | 288.9  | 288.9  | 287.4  |
| 67.5° | 2478.0 | 1362.1 | 487.4  | 355.8  | 315.4  | 273.5  | 252.9  | 260.2  | 264.6  | 263.2  | 266.8  |
| 70°   | 1761.3 | 922.5  | 396.9  | 308.7  | 273.5  | 241.8  | 226.4  | 226.4  | 223.5  | 222.0  | 222.0  |
| 72.5° | 854.2  | 527.1  | 322.0  | 258.0  | 233.0  | 206.6  | 194.1  | 188.9  | 183.0  | 182.3  | 178.6  |
| 73°   | 713.8  | 472.7  | 307.3  | 248.5  | 223.5  | 201.4  | 187.4  | 179.4  | 175.7  | 172.7  | 172.0  |
| 75°   | 434.4  | 358.7  | 256.5  | 209.5  | 190.4  | 173.5  | 161.0  | 153.6  | 150.0  | 147.8  | 147.0  |
| 77.5° | 286.0  | 267.6  | 199.2  | 160.2  | 145.5  | 135.3  | 130.1  | 122.8  | 120.6  | 117.6  | 117.6  |
| 80°   | 213.2  | 204.4  | 142.6  | 113.2  | 104.4  | 95.6   | 94.1   | 92.6   | 86.7   | 83.1   | 81.6   |
| 82.5° | 137.5  | 145.5  | 97.0   | 75.7   | 66.2   | 58.8   | 59.5   | 61.7   | 55.9   | 50.7   | 49.3   |
| 85°   | 97.8   | 105.1  | 58.8   | 34.5   | 27.9   | 24.3   | 27.2   | 24.3   | 25.0   | 19.8   | 16.2   |
| 87.5° | 16.2   | 27.9   | 10.3   | 4.4    | 2.2    | 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)