

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: P452954

Luminaire Tested: **GLAN-SA4A-722-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-722-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13181 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - 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

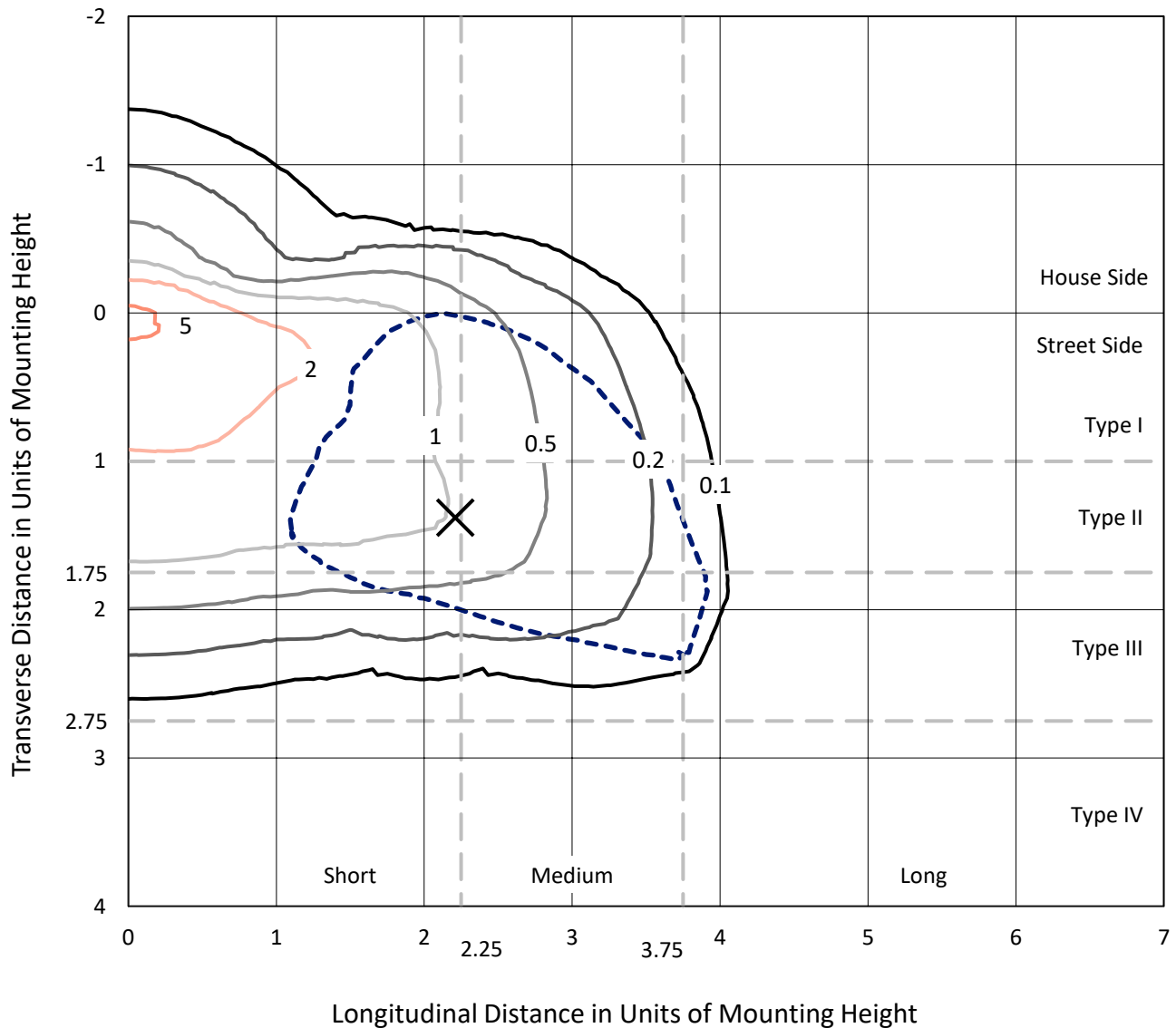


REPORT NUMBER: P452954

CATALOG NUMBER: GLAN-SA4A-722-U-SL3

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

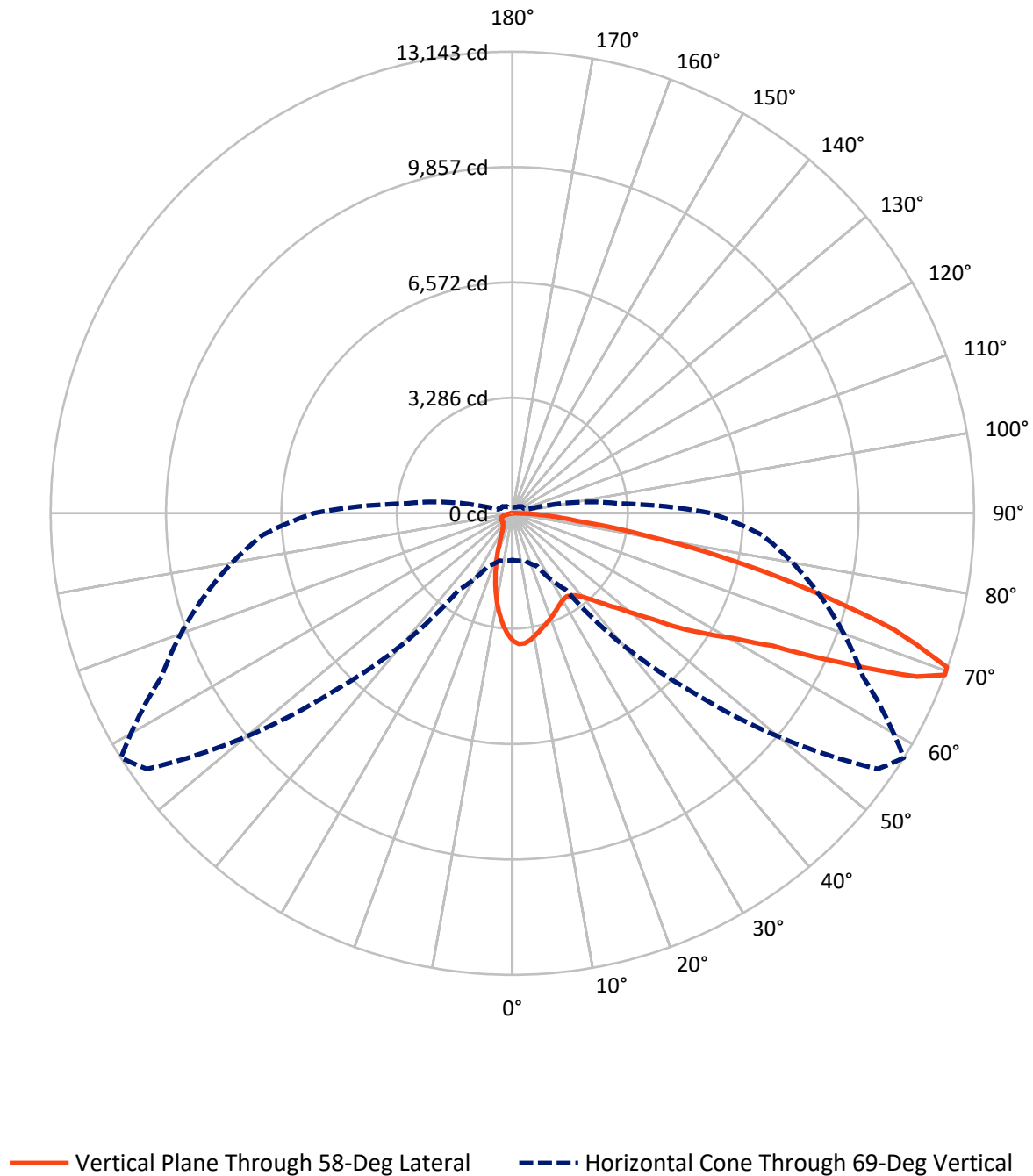


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P452954

CATALOG NUMBER: GLAN-SA4A-722-U-SL3

## Luminous Intensity Polar Plot



REPORT NUMBER: P452954

CATALOG NUMBER: GLAN-SA4A-722-U-SL3

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1931.7   | 0.0    | 1931.7  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 11249.3  | 0.0    | 11249.3 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 13181.0  | 0.0    | 13181.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 309.3   | 2.3       |
| 10°-20°   | 679.2   | 5.2       |
| 20°-30°   | 877.6   | 6.7       |
| 30°-40°   | 1139.8  | 8.6       |
| 40°-50°   | 1657.1  | 12.6      |
| 50°-60°   | 2644.2  | 20.1      |
| 60°-70°   | 3532.4  | 26.8      |
| 70°-80°   | 2036.3  | 15.4      |
| 80°-90°   | 305.0   | 2.3       |
| 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°    | 13181.0 | 100.0     |
| 0°-180°   | 13181.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452954

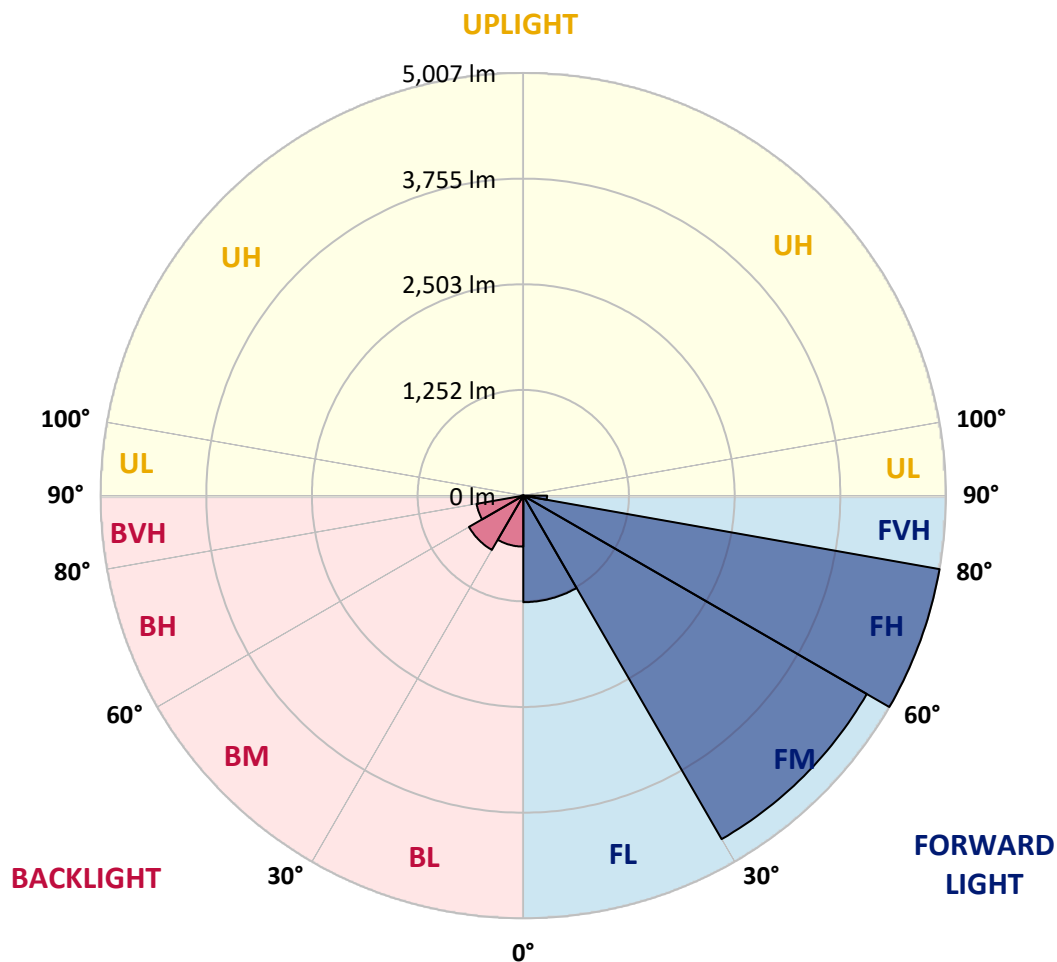
CATALOG NUMBER: GLAN-SA4A-722-U-SL3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1262.4 | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 4698.3 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 5007.0 | 38.0      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 281.6  | 2.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 603.8  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 742.9  | 5.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 561.7  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 23.4   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





REPORT NUMBER: P452954

CATALOG NUMBER: GLAN-SA4A-722-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5  | 3642.5  | 3642.5  | 3642.5 | 3642.5 |
| 2.5°  | 3777.7 | 3788.0 | 3785.1 | 3781.4 | 3775.5 | 3759.3 | 3732.9  | 3728.5  | 3711.6  | 3675.5 | 3630.7 |
| 5°    | 3719.6 | 3728.5 | 3729.2 | 3734.3 | 3741.7 | 3738.8 | 3719.6  | 3717.4  | 3692.4  | 3643.9 | 3568.9 |
| 7.5°  | 3520.4 | 3532.2 | 3557.9 | 3586.6 | 3612.3 | 3636.6 | 3642.5  | 3646.1  | 3630.7  | 3574.8 | 3474.9 |
| 10°   | 3296.2 | 3308.0 | 3319.7 | 3362.4 | 3425.6 | 3485.9 | 3535.9  | 3542.5  | 3546.2  | 3494.7 | 3372.7 |
| 12.5° | 3047.8 | 3072.0 | 3097.0 | 3160.2 | 3244.8 | 3339.6 | 3427.8  | 3441.8  | 3466.8  | 3427.8 | 3284.5 |
| 15°   | 2836.8 | 2861.8 | 2897.8 | 2954.4 | 3056.6 | 3193.3 | 3317.5  | 3340.3  | 3389.6  | 3369.7 | 3202.1 |
| 17.5° | 2690.5 | 2699.3 | 2724.3 | 2789.0 | 2899.3 | 3043.3 | 3209.5  | 3255.1  | 3333.7  | 3328.6 | 3131.6 |
| 20°   | 2575.1 | 2586.1 | 2601.5 | 2641.2 | 2755.9 | 2908.1 | 3108.8  | 3167.6  | 3274.2  | 3291.8 | 3061.7 |
| 22.5° | 2526.6 | 2534.7 | 2532.4 | 2553.8 | 2631.7 | 2784.6 | 3006.6  | 3076.4  | 3221.2  | 3266.8 | 2997.0 |
| 25°   | 2529.5 | 2536.9 | 2525.8 | 2520.7 | 2567.0 | 2675.8 | 2900.0  | 2988.9  | 3178.6  | 3249.9 | 2938.2 |
| 27.5° | 2578.8 | 2583.9 | 2563.3 | 2542.7 | 2546.4 | 2608.2 | 2811.8  | 2910.3  | 3142.6  | 3257.3 | 2889.0 |
| 30°   | 2644.9 | 2654.5 | 2641.2 | 2616.2 | 2589.0 | 2592.0 | 2755.2  | 2852.2  | 3125.7  | 3283.0 | 2865.4 |
| 32.5° | 2730.2 | 2739.0 | 2733.1 | 2713.3 | 2678.0 | 2639.0 | 2741.2  | 2830.9  | 3127.1  | 3335.2 | 2860.3 |
| 35°   | 2819.9 | 2837.5 | 2847.1 | 2845.6 | 2816.9 | 2749.3 | 2796.3  | 2870.6  | 3162.4  | 3422.7 | 2890.4 |
| 37.5° | 2921.3 | 2936.0 | 2977.2 | 3003.6 | 2977.2 | 2898.5 | 2920.6  | 2972.0  | 3240.4  | 3549.1 | 2956.6 |
| 40°   | 3019.8 | 3041.9 | 3102.2 | 3184.5 | 3174.2 | 3105.1 | 3110.2  | 3144.1  | 3377.8  | 3737.3 | 3086.0 |
| 42.5° | 3122.7 | 3149.2 | 3254.3 | 3376.3 | 3400.6 | 3346.9 | 3360.9  | 3391.1  | 3573.4  | 3998.2 | 3308.0 |
| 45°   | 3255.1 | 3286.7 | 3416.0 | 3568.2 | 3663.8 | 3630.7 | 3670.4  | 3685.1  | 3835.1  | 4337.9 | 3600.6 |
| 47.5° | 3425.6 | 3462.4 | 3621.9 | 3811.5 | 3946.8 | 3976.9 | 4046.0  | 4037.2  | 4159.2  | 4740.0 | 3979.9 |
| 50°   | 3713.0 | 3733.6 | 3884.3 | 4077.6 | 4263.6 | 4399.6 | 4474.6  | 4488.6  | 4561.3  | 5131.0 | 4404.0 |
| 52.5° | 4054.9 | 4073.2 | 4182.0 | 4351.1 | 4584.1 | 4872.3 | 5057.5  | 5012.0  | 5029.6  | 5607.4 | 4900.2 |
| 55°   | 4439.3 | 4470.2 | 4539.3 | 4651.8 | 4953.9 | 5378.0 | 5750.0  | 5761.0  | 5565.5  | 6063.2 | 5375.8 |
| 57.5° | 4737.0 | 4789.2 | 4907.6 | 5067.8 | 5450.8 | 5940.4 | 6440.3  | 6447.6  | 6197.7  | 6549.8 | 5900.7 |
| 60°   | 4587.1 | 4648.8 | 4919.3 | 5309.7 | 6102.9 | 6921.8 | 7265.1  | 7223.2  | 6813.0  | 7104.1 | 6541.0 |
| 62.5° | 3940.2 | 3951.2 | 4344.5 | 4954.6 | 6303.5 | 8234.7 | 8492.7  | 8315.5  | 7634.1  | 7806.8 | 7191.6 |
| 65°   | 2550.1 | 2622.1 | 2933.8 | 3788.7 | 5644.2 | 8963.2 | 10643.6 | 10234.2 | 8785.3  | 8604.4 | 7736.3 |
| 67.5° | 1609.9 | 1591.5 | 1720.9 | 2163.4 | 3882.1 | 8321.4 | 12479.2 | 12414.5 | 10290.8 | 9108.0 | 7606.2 |
| 69°   | 1335.0 | 1355.5 | 1399.6 | 1658.4 | 2671.4 | 7104.8 | 12696.0 | 13143.0 | 11020.7 | 9068.3 | 7133.5 |
| 70°   | 1210.7 | 1220.3 | 1266.6 | 1470.2 | 2061.2 | 5950.7 | 12340.2 | 13123.1 | 11307.4 | 8902.1 | 6790.9 |
| 72.5° | 960.8  | 960.1  | 1039.4 | 1223.2 | 1540.8 | 3396.9 | 10132.7 | 11393.4 | 10986.9 | 8128.8 | 5611.1 |
| 75°   | 730.0  | 741.7  | 829.2  | 1035.0 | 1419.5 | 1856.1 | 7071.0  | 8774.2  | 8775.0  | 6420.4 | 3501.3 |
| 77.5° | 526.3  | 533.7  | 635.9  | 868.9  | 1337.2 | 1504.8 | 4709.8  | 6293.3  | 5916.1  | 2941.9 | 1100.5 |
| 80°   | 344.8  | 349.2  | 427.1  | 688.1  | 1205.6 | 1419.5 | 2792.7  | 3852.0  | 2790.5  | 780.7  | 363.9  |
| 82.5° | 188.9  | 211.0  | 261.0  | 445.5  | 967.4  | 1311.4 | 1697.4  | 1949.5  | 1046.8  | 347.7  | 189.7  |
| 85°   | 94.8   | 100.7  | 147.0  | 260.2  | 632.2  | 1085.0 | 1182.1  | 1118.1  | 540.3   | 172.8  | 98.5   |
| 87.5° | 27.9   | 35.3   | 61.0   | 100.7  | 256.6  | 565.3  | 657.9   | 590.3   | 208.0   | 62.5   | 20.6   |
| 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: P452954

CATALOG NUMBER: GLAN-SA4A-722-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 | 3642.5 |
| 2.5°  | 3612.3 | 3599.1 | 3540.3 | 3487.3 | 3438.8 | 3387.4 | 3344.0 | 3305.8 | 3309.5 | 3310.2 | 3271.2 |
| 5°    | 3530.0 | 3499.8 | 3388.1 | 3283.7 | 3195.5 | 3083.8 | 2988.2 | 2926.5 | 2895.6 | 2854.4 | 2869.1 |
| 7.5°  | 3418.2 | 3360.2 | 3205.1 | 3031.6 | 2869.1 | 2724.3 | 2567.0 | 2458.9 | 2389.8 | 2322.9 | 2331.8 |
| 10°   | 3302.8 | 3209.5 | 2983.8 | 2754.4 | 2544.2 | 2312.6 | 2112.0 | 1939.9 | 1812.0 | 1764.3 | 1732.6 |
| 12.5° | 3184.5 | 3061.7 | 2775.0 | 2470.0 | 2179.6 | 1902.5 | 1618.0 | 1433.5 | 1292.3 | 1217.3 | 1226.9 |
| 15°   | 3076.4 | 2927.2 | 2557.4 | 2185.5 | 1808.4 | 1478.3 | 1194.5 | 1018.9 | 920.4  | 899.8  | 911.5  |
| 17.5° | 2976.4 | 2780.9 | 2353.8 | 1909.1 | 1468.7 | 1108.5 | 897.6  | 798.3  | 758.6  | 747.6  | 746.9  |
| 20°   | 2873.5 | 2656.7 | 2125.2 | 1613.6 | 1144.6 | 859.3  | 736.6  | 690.3  | 682.9  | 687.3  | 688.1  |
| 22.5° | 2769.1 | 2503.0 | 1890.0 | 1320.3 | 911.5  | 702.8  | 644.0  | 631.5  | 637.3  | 647.6  | 649.1  |
| 25°   | 2672.9 | 2367.8 | 1663.5 | 1063.0 | 727.8  | 617.5  | 588.8  | 588.8  | 602.1  | 617.5  | 618.2  |
| 27.5° | 2593.5 | 2236.9 | 1437.9 | 843.9  | 609.4  | 555.7  | 546.2  | 551.3  | 569.7  | 581.5  | 582.2  |
| 30°   | 2528.0 | 2114.9 | 1224.7 | 676.3  | 535.9  | 506.5  | 504.3  | 513.1  | 526.3  | 537.4  | 538.1  |
| 32.5° | 2478.8 | 2007.6 | 1025.5 | 568.2  | 485.2  | 469.0  | 468.3  | 474.9  | 482.2  | 485.2  | 488.1  |
| 35°   | 2459.7 | 1918.6 | 843.2  | 499.9  | 451.4  | 441.1  | 441.1  | 440.3  | 443.3  | 444.7  | 446.2  |
| 37.5° | 2475.1 | 1850.3 | 702.0  | 455.8  | 426.4  | 419.0  | 414.6  | 410.2  | 408.7  | 408.7  | 409.5  |
| 40°   | 2540.5 | 1814.2 | 596.9  | 427.1  | 408.7  | 397.7  | 389.6  | 384.5  | 379.3  | 380.8  | 382.3  |
| 42.5° | 2679.5 | 1820.9 | 525.6  | 408.0  | 393.3  | 377.8  | 366.1  | 360.2  | 356.5  | 360.9  | 360.2  |
| 45°   | 2900.7 | 1887.0 | 480.0  | 394.8  | 377.8  | 358.0  | 347.0  | 341.1  | 341.1  | 347.7  | 349.9  |
| 47.5° | 3210.2 | 2013.5 | 455.8  | 384.5  | 366.1  | 342.6  | 331.5  | 327.1  | 328.6  | 339.6  | 340.4  |
| 50°   | 3588.1 | 2233.3 | 451.4  | 379.3  | 360.2  | 331.5  | 319.0  | 314.6  | 318.3  | 330.1  | 331.5  |
| 52.5° | 4004.9 | 2516.3 | 472.7  | 380.1  | 355.1  | 324.9  | 308.7  | 302.1  | 305.8  | 315.4  | 318.3  |
| 55°   | 4498.9 | 2870.6 | 527.8  | 383.0  | 347.7  | 321.2  | 301.4  | 286.7  | 291.1  | 297.7  | 298.5  |
| 57.5° | 5003.1 | 3317.5 | 624.8  | 383.7  | 341.8  | 314.6  | 288.9  | 269.8  | 269.8  | 274.2  | 276.4  |
| 60°   | 5619.2 | 3804.2 | 752.7  | 384.5  | 342.6  | 305.1  | 272.0  | 250.7  | 247.7  | 249.9  | 250.7  |
| 62.5° | 6230.8 | 4211.4 | 774.1  | 382.3  | 349.9  | 295.5  | 253.6  | 231.6  | 226.4  | 225.7  | 224.2  |
| 65°   | 6500.6 | 4135.7 | 634.4  | 372.0  | 358.0  | 289.6  | 238.9  | 213.2  | 204.4  | 201.4  | 201.4  |
| 67.5° | 6061.0 | 3498.4 | 477.1  | 358.0  | 352.9  | 283.8  | 224.9  | 197.7  | 187.5  | 181.6  | 181.6  |
| 69°   | 5647.8 | 3111.7 | 428.6  | 348.4  | 339.6  | 274.2  | 216.1  | 189.7  | 177.2  | 170.5  | 168.3  |
| 70°   | 5328.8 | 2845.6 | 408.0  | 340.4  | 327.1  | 263.2  | 209.5  | 183.8  | 169.8  | 162.5  | 161.0  |
| 72.5° | 4252.6 | 2232.5 | 357.3  | 309.5  | 278.6  | 221.3  | 186.0  | 165.4  | 152.2  | 144.1  | 141.9  |
| 75°   | 2450.8 | 1210.0 | 296.2  | 269.0  | 224.2  | 172.0  | 157.3  | 144.1  | 133.8  | 126.4  | 124.2  |
| 77.5° | 754.2  | 467.5  | 214.7  | 212.4  | 164.7  | 133.1  | 125.7  | 120.6  | 113.2  | 105.1  | 103.7  |
| 80°   | 317.6  | 238.2  | 145.6  | 143.3  | 109.5  | 92.6   | 90.4   | 89.7   | 86.7   | 80.1   | 77.9   |
| 82.5° | 174.2  | 134.5  | 101.4  | 88.2   | 66.2   | 53.7   | 55.9   | 56.6   | 54.4   | 47.8   | 43.4   |
| 85°   | 85.3   | 73.5   | 49.3   | 39.7   | 30.1   | 19.1   | 18.4   | 22.1   | 20.6   | 14.7   | 16.2   |
| 87.5° | 16.9   | 20.6   | 13.2   | 5.9    | 2.9    | 0.0    | 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)