

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: P453185

Luminaire Tested: **GLAN-SA4B-722-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-722-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13688 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 164  
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

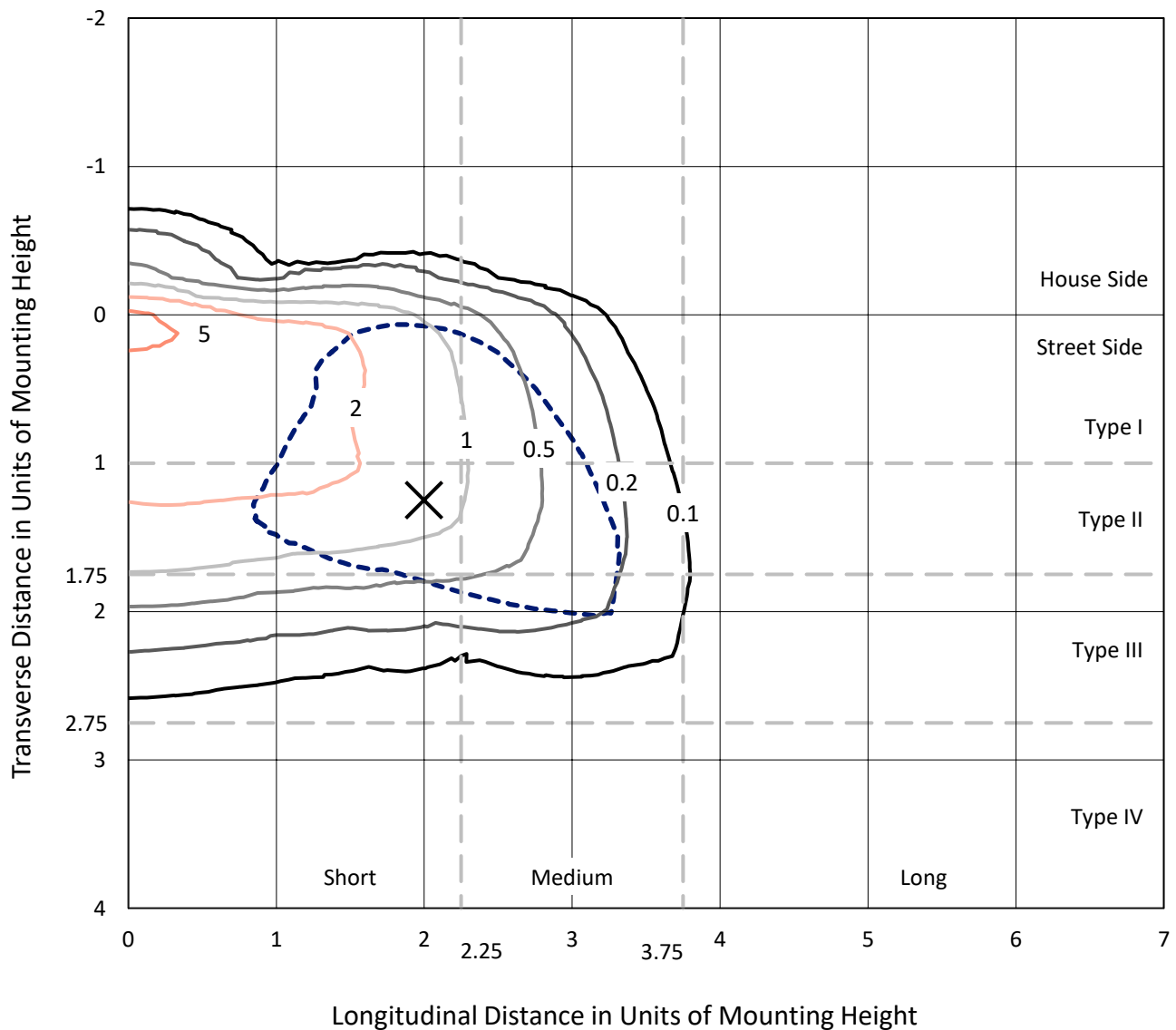


REPORT NUMBER: P453185

CATALOG NUMBER: GLAN-SA4B-722-U-SL3-HSS

## Iso-Footcandle Lines of Horizontal Illumination

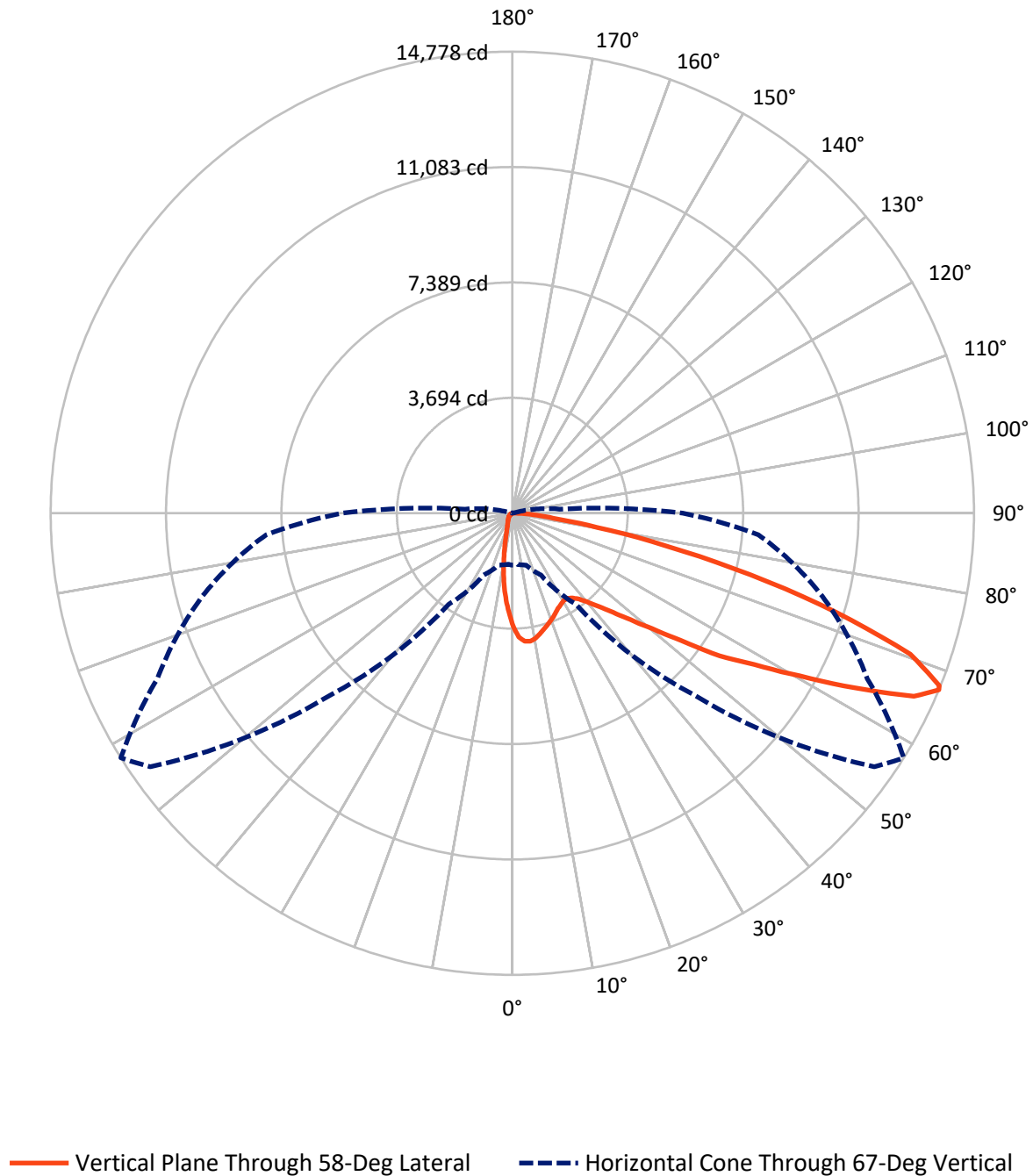
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P453185  
CATALOG NUMBER: GLAN-SA4B-722-U-SL3-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P453185

CATALOG NUMBER: GLAN-SA4B-722-U-SL3-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 987.8    | 0.0    | 987.8   |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 12700.2  | 0.0    | 12700.2 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 13688.0  | 0.0    | 13688.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 294.4   | 2.2       |
| 10°-20°   | 635.9   | 4.6       |
| 20°-30°   | 861.7   | 6.3       |
| 30°-40°   | 1195.2  | 8.7       |
| 40°-50°   | 1906.2  | 13.9      |
| 50°-60°   | 3295.0  | 24.1      |
| 60°-70°   | 3763.9  | 27.5      |
| 70°-80°   | 1569.2  | 11.5      |
| 80°-90°   | 166.4   | 1.2       |
| 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°    | 13688.0 | 100.0     |
| 0°-180°   | 13688.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P453185

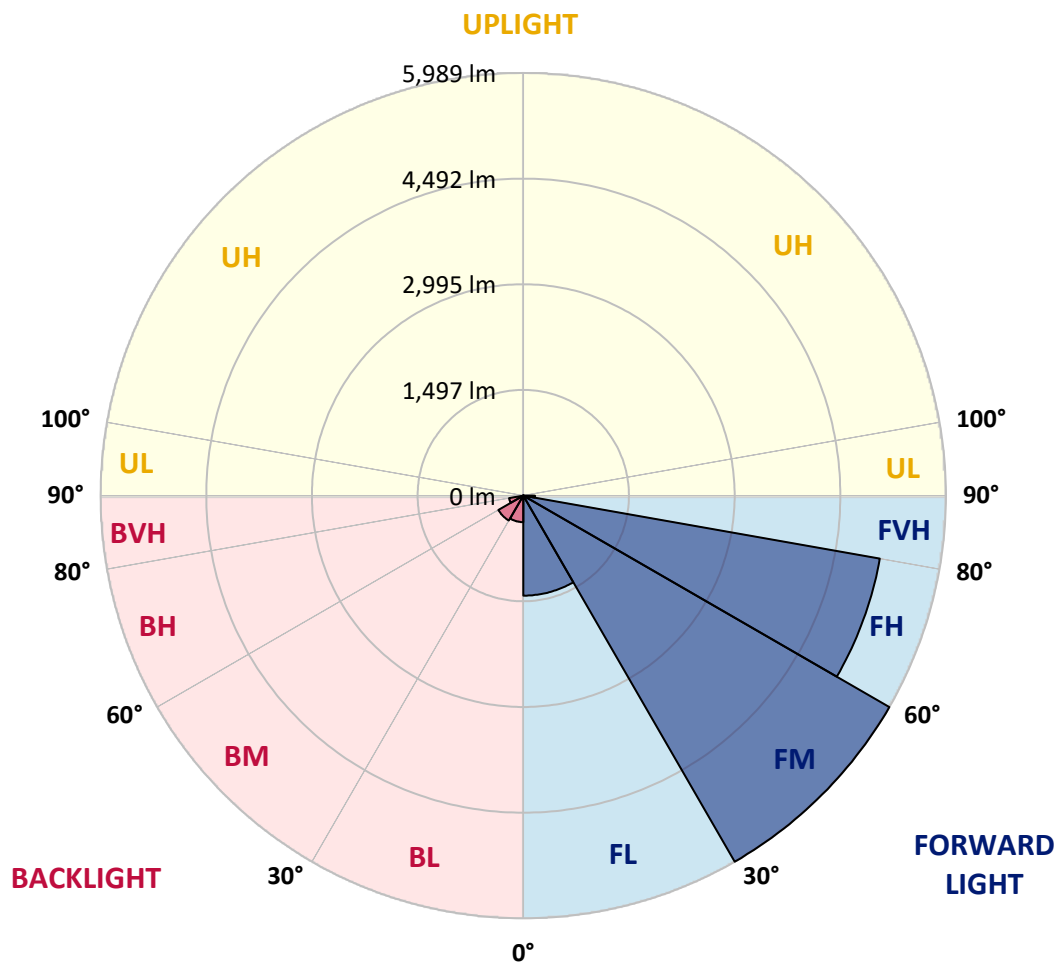
CATALOG NUMBER: GLAN-SA4B-722-U-SL3-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1417.0 | 10.4      |                         |      |         |
| FM   | (30°-60°)   | 5989.1 | 43.8      |                         |      |         |
| FH   | (60°-80°)   | 5128.9 | 37.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 165.2  | 1.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 375.1  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 407.3  | 3.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 204.2  | 1.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.2    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Short





REPORT NUMBER: P453185

CATALOG NUMBER: GLAN-SA4B-722-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6  | 3628.6  | 3628.6  | 3628.6  | 3628.6  | 3628.6 |
| 2.5°  | 4211.2 | 4217.6 | 4193.8 | 4174.6 | 4125.2 | 4072.2  | 4001.8  | 3964.3  | 3900.2  | 3789.5  | 3667.0 |
| 5°    | 4310.0 | 4318.2 | 4314.6 | 4310.0 | 4290.8 | 4239.6  | 4149.9  | 4117.0  | 4022.8  | 3842.6  | 3621.2 |
| 7.5°  | 4090.5 | 4120.7 | 4124.3 | 4160.0 | 4193.8 | 4198.4  | 4164.6  | 4139.9  | 4053.0  | 3841.7  | 3539.8 |
| 10°   | 3799.6 | 3819.7 | 3849.0 | 3890.2 | 3971.6 | 4039.3  | 4072.2  | 4068.5  | 4018.2  | 3813.3  | 3444.7 |
| 12.5° | 3506.0 | 3517.0 | 3561.8 | 3632.2 | 3731.9 | 3847.2  | 3935.0  | 3952.4  | 3953.3  | 3779.5  | 3365.1 |
| 15°   | 3253.5 | 3249.0 | 3283.7 | 3365.1 | 3505.1 | 3649.6  | 3806.9  | 3834.4  | 3878.3  | 3746.6  | 3291.0 |
| 17.5° | 3037.7 | 3061.5 | 3066.9 | 3156.6 | 3285.6 | 3473.1  | 3673.4  | 3721.9  | 3809.7  | 3718.2  | 3229.8 |
| 20°   | 2904.1 | 2916.9 | 2928.8 | 2979.1 | 3095.3 | 3292.9  | 3548.1  | 3614.8  | 3745.6  | 3692.6  | 3161.2 |
| 22.5° | 2864.8 | 2873.0 | 2863.0 | 2878.5 | 2960.8 | 3136.5  | 3411.8  | 3500.5  | 3684.4  | 3668.8  | 3105.4 |
| 25°   | 2895.0 | 2903.2 | 2879.4 | 2861.1 | 2889.5 | 3009.3  | 3280.1  | 3388.0  | 3635.0  | 3664.2  | 3063.3 |
| 27.5° | 2968.2 | 2983.7 | 2950.8 | 2917.9 | 2901.4 | 2940.7  | 3176.7  | 3302.0  | 3601.1  | 3686.2  | 3044.1 |
| 30°   | 3082.5 | 3091.6 | 3066.9 | 3026.7 | 2989.2 | 2949.9  | 3122.7  | 3242.6  | 3592.0  | 3737.4  | 3042.2 |
| 32.5° | 3206.9 | 3226.1 | 3212.4 | 3185.9 | 3137.4 | 3044.1  | 3138.3  | 3244.4  | 3613.9  | 3811.5  | 3065.1 |
| 35°   | 3360.6 | 3382.5 | 3395.3 | 3389.8 | 3327.6 | 3211.5  | 3237.1  | 3326.7  | 3672.5  | 3947.8  | 3127.3 |
| 37.5° | 3511.5 | 3530.7 | 3603.0 | 3627.6 | 3572.8 | 3463.0  | 3429.2  | 3488.6  | 3801.4  | 4126.2  | 3239.8 |
| 40°   | 3684.4 | 3710.0 | 3811.5 | 3905.7 | 3879.2 | 3763.9  | 3701.7  | 3751.1  | 3999.0  | 4395.1  | 3452.9 |
| 42.5° | 3849.9 | 3895.7 | 4050.2 | 4216.7 | 4241.4 | 4112.4  | 4071.3  | 4087.7  | 4291.7  | 4782.0  | 3750.2 |
| 45°   | 4085.0 | 4128.0 | 4327.4 | 4553.3 | 4669.5 | 4568.9  | 4526.8  | 4524.0  | 4693.3  | 5326.2  | 4232.3 |
| 47.5° | 4424.3 | 4462.8 | 4697.8 | 4921.0 | 5127.7 | 5141.5  | 5061.9  | 5089.3  | 5198.2  | 5962.8  | 4823.1 |
| 50°   | 4840.5 | 4931.1 | 5085.7 | 5318.0 | 5594.2 | 5817.4  | 5842.1  | 5805.5  | 5898.8  | 6700.1  | 5532.9 |
| 52.5° | 5445.1 | 5479.9 | 5621.7 | 5812.8 | 6136.6 | 6515.3  | 6808.9  | 6758.6  | 6729.4  | 7402.6  | 6250.1 |
| 55°   | 5896.1 | 5942.7 | 6163.2 | 6425.7 | 6900.4 | 7399.8  | 8036.4  | 8053.8  | 7684.3  | 8077.6  | 6951.6 |
| 57.5° | 5759.8 | 5831.1 | 6165.0 | 6692.8 | 7736.4 | 8649.3  | 9123.1  | 9135.0  | 8567.9  | 8733.4  | 7743.7 |
| 60°   | 5060.0 | 5093.9 | 5572.3 | 6276.6 | 7807.8 | 10003.0 | 10664.3 | 10568.3 | 9467.0  | 9467.0  | 8443.5 |
| 62.5° | 3588.3 | 3641.4 | 4029.2 | 5065.5 | 7051.3 | 10473.2 | 12510.2 | 12311.7 | 10705.5 | 10168.6 | 8860.6 |
| 65°   | 2293.1 | 2241.9 | 2498.9 | 3197.7 | 5253.0 | 9778.9  | 14117.3 | 14129.2 | 11870.8 | 10449.4 | 8632.8 |
| 67°   | 1661.1 | 1640.9 | 1715.0 | 2186.1 | 3561.8 | 8220.3  | 14151.1 | 14777.7 | 12540.4 | 10271.9 | 7904.7 |
| 67.5° | 1519.3 | 1534.8 | 1588.8 | 1972.1 | 3236.2 | 7480.3  | 13997.5 | 14739.3 | 12691.3 | 10164.9 | 7641.3 |
| 70°   | 1151.6 | 1125.1 | 1183.6 | 1394.9 | 1940.1 | 4718.9  | 12040.9 | 13518.2 | 12503.8 | 9103.0  | 6105.5 |
| 72.5° | 847.0  | 844.3  | 925.7  | 1140.6 | 1493.7 | 2513.6  | 9038.9  | 10839.0 | 10215.2 | 6931.5  | 3844.4 |
| 75°   | 571.7  | 597.3  | 727.2  | 953.1  | 1353.7 | 1630.0  | 6162.2  | 7863.6  | 7091.6  | 3935.9  | 1571.4 |
| 77.5° | 325.6  | 327.5  | 468.3  | 765.6  | 1215.6 | 1311.7  | 3651.4  | 5009.7  | 3753.9  | 1308.9  | 466.5  |
| 80°   | 140.9  | 154.6  | 232.3  | 556.1  | 1008.0 | 1161.7  | 2093.7  | 2753.2  | 1518.4  | 277.2   | 150.9  |
| 82.5° | 52.1   | 61.3   | 102.4  | 342.1  | 735.4  | 956.8   | 1265.0  | 1314.4  | 515.0   | 97.9    | 94.2   |
| 85°   | 0.0    | 1.8    | 37.5   | 160.1  | 383.3  | 427.2   | 845.2   | 779.3   | 227.8   | 46.6    | 61.3   |
| 87.5° | 0.0    | 0.0    | 0.0    | 16.5   | 50.3   | 159.2   | 262.5   | 292.7   | 54.9    | 16.5    | 14.6   |
| 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: P453185

CATALOG NUMBER: GLAN-SA4B-722-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 | 3628.6 |
| 2.5°  | 3601.1 | 3541.7 | 3392.6 | 3243.5 | 3132.8 | 3040.4 | 2901.4 | 2825.5 | 2785.2 | 2725.8 | 2729.4 |
| 5°    | 3510.6 | 3389.8 | 3127.3 | 2855.7 | 2636.1 | 2422.1 | 2166.0 | 2062.6 | 1975.7 | 1926.3 | 1893.4 |
| 7.5°  | 3376.1 | 3197.7 | 2809.0 | 2446.8 | 2109.3 | 1735.2 | 1454.4 | 1266.8 | 1140.6 | 1094.0 | 1049.1 |
| 10°   | 3228.8 | 2991.9 | 2486.1 | 1984.0 | 1515.6 | 1129.6 | 891.8  | 719.9  | 658.6  | 601.9  | 607.4  |
| 12.5° | 3092.6 | 2804.4 | 2189.8 | 1565.9 | 1062.0 | 718.0  | 559.8  | 489.4  | 469.2  | 462.8  | 462.8  |
| 15°   | 2981.0 | 2625.2 | 1871.4 | 1177.2 | 728.1  | 515.9  | 448.2  | 429.0  | 421.7  | 419.8  | 419.8  |
| 17.5° | 2862.1 | 2455.0 | 1584.2 | 869.9  | 529.6  | 431.7  | 408.9  | 396.1  | 393.3  | 391.5  | 391.5  |
| 20°   | 2756.0 | 2284.0 | 1311.7 | 647.6  | 428.1  | 388.7  | 374.1  | 365.9  | 363.1  | 361.3  | 362.2  |
| 22.5° | 2655.3 | 2132.1 | 1055.5 | 489.4  | 376.9  | 354.0  | 339.3  | 331.1  | 325.6  | 321.1  | 322.0  |
| 25°   | 2565.7 | 1985.8 | 848.8  | 400.6  | 339.3  | 319.2  | 304.6  | 292.7  | 280.8  | 275.3  | 274.4  |
| 27.5° | 2502.6 | 1857.7 | 661.3  | 343.0  | 305.5  | 283.6  | 265.3  | 250.6  | 235.1  | 226.8  | 225.0  |
| 30°   | 2450.4 | 1727.8 | 523.2  | 302.8  | 271.7  | 250.6  | 227.8  | 206.7  | 190.3  | 182.0  | 178.4  |
| 32.5° | 2416.6 | 1604.4 | 412.5  | 269.8  | 243.3  | 217.7  | 192.1  | 171.0  | 152.8  | 144.5  | 142.7  |
| 35°   | 2411.1 | 1501.0 | 337.5  | 242.4  | 217.7  | 190.3  | 163.7  | 140.9  | 125.3  | 117.1  | 115.3  |
| 37.5° | 2450.4 | 1421.4 | 282.6  | 220.4  | 196.7  | 166.5  | 137.2  | 116.2  | 102.4  | 96.0   | 95.1   |
| 40°   | 2555.6 | 1371.1 | 245.1  | 202.1  | 177.4  | 144.5  | 117.1  | 98.8   | 85.1   | 78.7   | 78.7   |
| 42.5° | 2756.0 | 1372.9 | 220.4  | 184.8  | 158.2  | 123.5  | 99.7   | 82.3   | 70.4   | 64.9   | 63.1   |
| 45°   | 3068.8 | 1435.1 | 199.4  | 167.4  | 139.9  | 107.0  | 85.1   | 67.7   | 55.8   | 51.2   | 51.2   |
| 47.5° | 3487.7 | 1558.6 | 181.1  | 150.0  | 123.5  | 91.5   | 72.3   | 54.9   | 44.8   | 40.2   | 40.2   |
| 50°   | 4035.6 | 1757.1 | 165.6  | 135.4  | 109.8  | 78.7   | 58.5   | 44.8   | 34.8   | 31.1   | 30.2   |
| 52.5° | 4608.2 | 2002.2 | 147.3  | 122.6  | 94.2   | 66.8   | 47.6   | 34.8   | 26.5   | 23.8   | 22.9   |
| 55°   | 5240.2 | 2241.9 | 129.9  | 109.8  | 76.8   | 55.8   | 37.5   | 27.4   | 19.2   | 16.5   | 16.5   |
| 57.5° | 5877.8 | 2477.0 | 108.8  | 91.5   | 60.4   | 41.2   | 29.3   | 20.1   | 12.8   | 10.1   | 10.1   |
| 60°   | 6417.4 | 2552.9 | 92.4   | 74.1   | 45.7   | 29.3   | 21.0   | 12.8   | 7.3    | 4.6    | 4.6    |
| 62.5° | 6491.5 | 2296.8 | 77.7   | 56.7   | 32.9   | 20.1   | 11.0   | 7.3    | 2.7    | 1.8    | 1.8    |
| 65°   | 6089.1 | 1866.0 | 64.9   | 43.0   | 22.0   | 10.1   | 4.6    | 2.7    | 0.9    | 0.0    | 0.0    |
| 67°   | 5456.1 | 1512.9 | 53.1   | 32.0   | 15.5   | 6.4    | 2.7    | 0.9    | 0.0    | 0.0    | 0.0    |
| 67.5° | 5294.2 | 1442.5 | 51.2   | 30.2   | 13.7   | 5.5    | 1.8    | 0.9    | 0.0    | 0.0    | 0.0    |
| 70°   | 4154.5 | 1080.2 | 36.6   | 18.3   | 8.2    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 2582.2 | 611.0  | 26.5   | 11.0   | 5.5    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 976.0  | 214.0  | 18.3   | 7.3    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 303.7  | 81.4   | 11.0   | 5.5    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 102.4  | 31.1   | 7.3    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 63.1   | 12.8   | 4.6    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 39.3   | 5.5    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.3    | 1.8    | 0.9    | 0.0    | 0.0    | 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)