

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: P453420

Luminaire Tested: **GLAN-SA4C-722-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453420  
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-SA4C-722-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 1050mA 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: 20012 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 213  
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

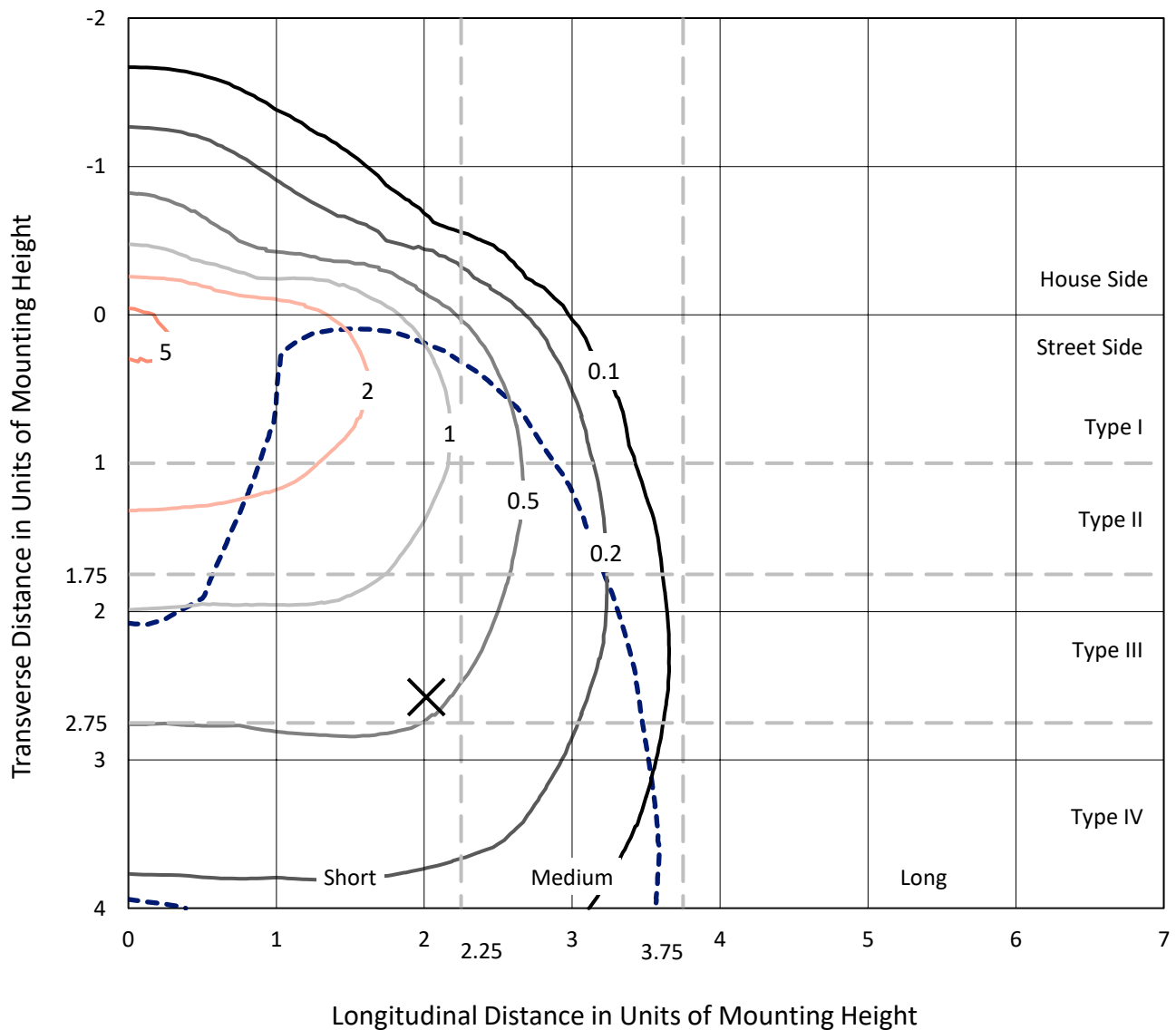


REPORT NUMBER: P453420

CATALOG NUMBER: GLAN-SA4C-722-U-SL4

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

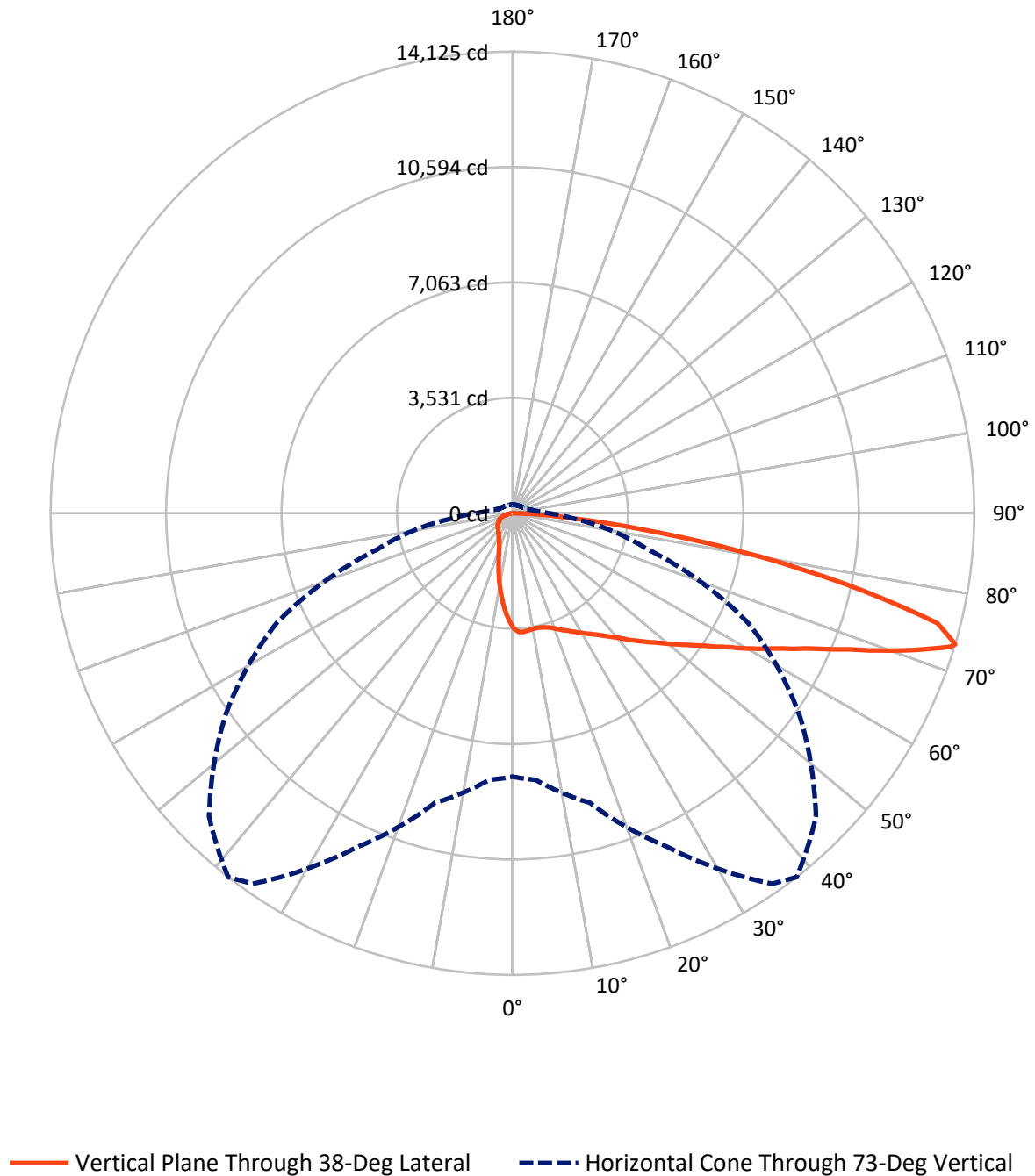


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P453420

CATALOG NUMBER: GLAN-SA4C-722-U-SL4

## Luminous Intensity Polar Plot



REPORT NUMBER: P453420

CATALOG NUMBER: GLAN-SA4C-722-U-SL4

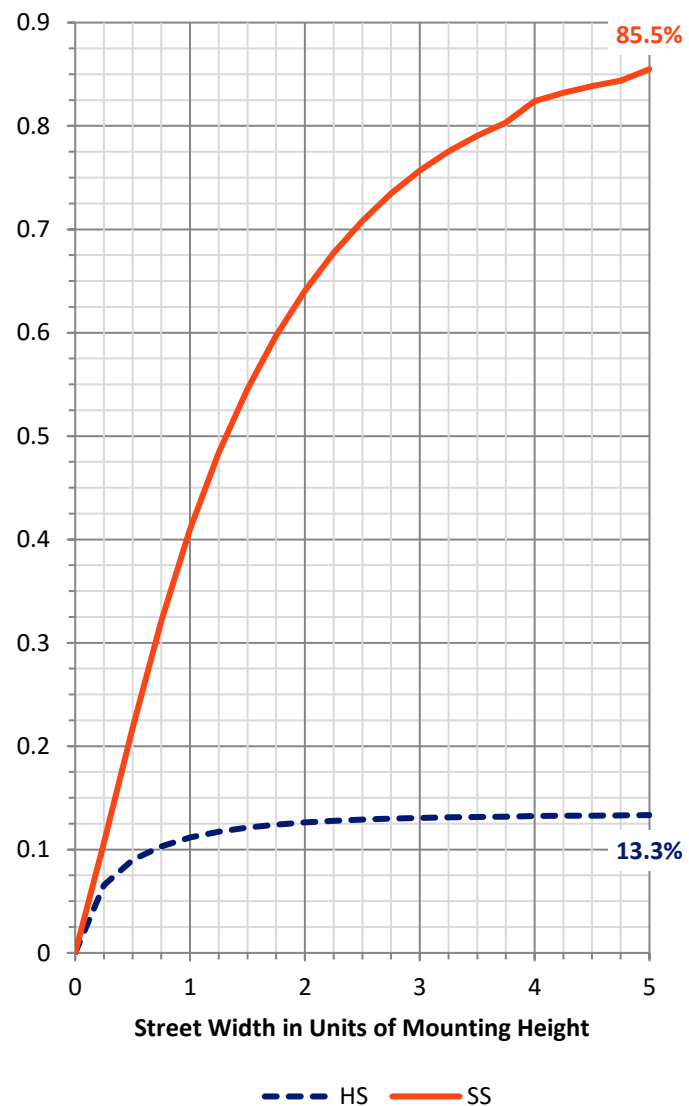
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2690.2   | 0.0    | 2690.2  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 17321.8  | 0.0    | 17321.8 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 20012.0  | 0.0    | 20012.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.9   | 1.5       |
| 10°-20°   | 787.0   | 3.9       |
| 20°-30°   | 1225.5  | 6.1       |
| 30°-40°   | 1797.5  | 9.0       |
| 40°-50°   | 2666.3  | 13.3      |
| 50°-60°   | 3777.6  | 18.9      |
| 60°-70°   | 4792.1  | 23.9      |
| 70°-80°   | 3989.0  | 19.9      |
| 80°-90°   | 670.2   | 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°    | 20012.0 | 100.0     |
| 0°-180°   | 20012.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P453420

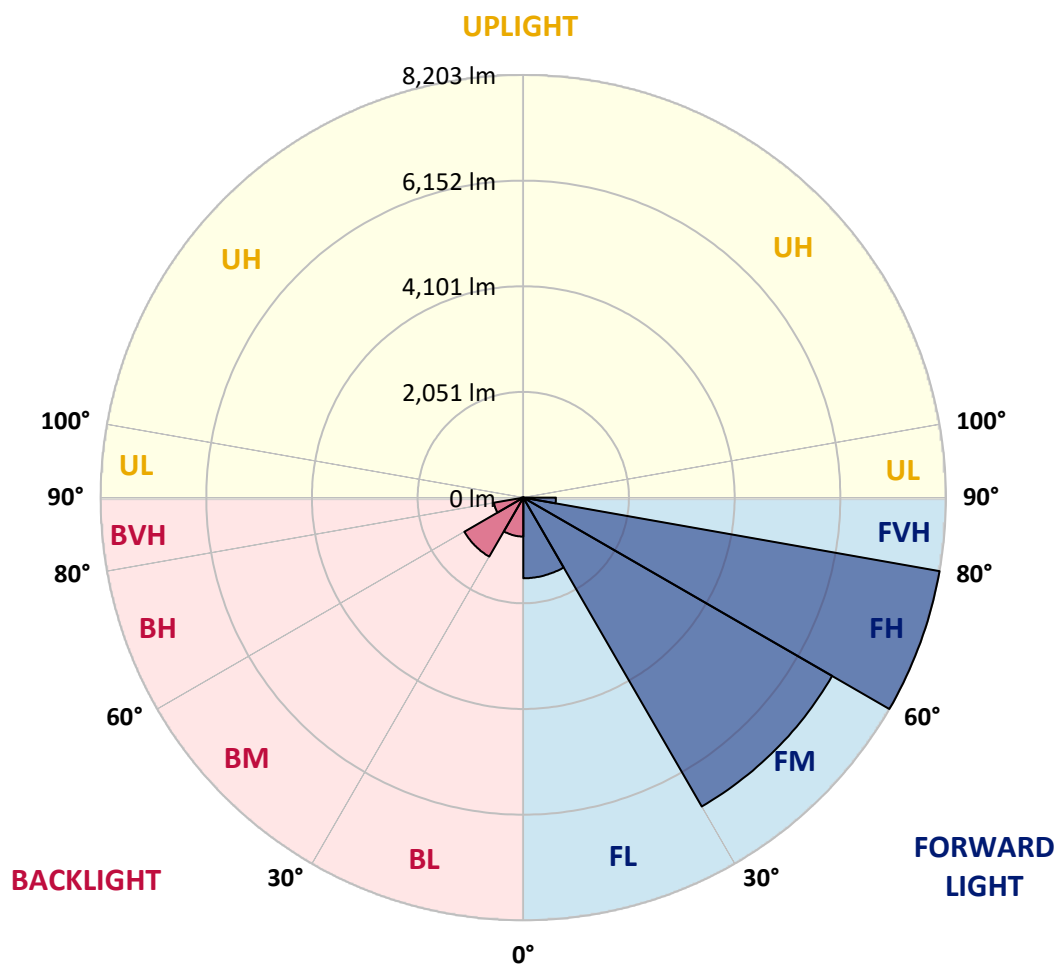
CATALOG NUMBER: GLAN-SA4C-722-U-SL4

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1564.4 | 7.8       |                         |      |          |
| FM   | (30°-60°)   | 6920.7 | 34.6      |                         |      |          |
| FH   | (60°-80°)   | 8202.8 | 41.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 633.9  | 3.2       |                         |      | G4/750   |
| BL   | (0°-30°)    | 754.9  | 3.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1320.7 | 6.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 578.2  | 2.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 36.3   | 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-G4**

Type IV Short





REPORT NUMBER: P453420

CATALOG NUMBER: GLAN-SA4C-722-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 3515.8 | 3515.8 | 3515.8 | 3515.8  | 3515.8  | 3515.8  | 3515.8  | 3515.8  | 3515.8  | 3515.8 | 3515.8 |
| 2.5°  | 3657.0 | 3675.1 | 3666.1 | 3653.6  | 3645.7  | 3637.8  | 3626.5  | 3593.7  | 3567.8  | 3539.5 | 3495.4 |
| 5°    | 3684.2 | 3695.5 | 3687.5 | 3671.7  | 3653.6  | 3645.7  | 3624.3  | 3581.3  | 3539.5  | 3492.0 | 3426.5 |
| 7.5°  | 3668.3 | 3672.9 | 3663.8 | 3644.6  | 3628.8  | 3614.1  | 3589.2  | 3541.8  | 3490.9  | 3433.3 | 3347.4 |
| 10°   | 3611.8 | 3628.8 | 3628.8 | 3613.0  | 3597.1  | 3589.2  | 3564.4  | 3519.2  | 3472.8  | 3407.3 | 3305.6 |
| 12.5° | 3565.5 | 3583.6 | 3598.3 | 3593.7  | 3592.6  | 3592.6  | 3573.4  | 3539.5  | 3485.3  | 3423.1 | 3302.2 |
| 15°   | 3533.9 | 3555.3 | 3587.0 | 3605.0  | 3616.3  | 3619.7  | 3611.8  | 3582.4  | 3527.1  | 3454.7 | 3315.7 |
| 17.5° | 3527.1 | 3553.1 | 3610.7 | 3650.3  | 3679.6  | 3678.5  | 3676.2  | 3635.6  | 3574.5  | 3499.9 | 3332.7 |
| 20°   | 3557.6 | 3591.5 | 3671.7 | 3733.9  | 3776.8  | 3768.9  | 3756.5  | 3703.4  | 3632.2  | 3548.5 | 3348.5 |
| 22.5° | 3649.1 | 3684.2 | 3772.3 | 3840.1  | 3881.9  | 3881.9  | 3844.6  | 3774.6  | 3698.8  | 3605.0 | 3370.0 |
| 25°   | 3780.2 | 3818.6 | 3912.4 | 3981.4  | 4000.6  | 3985.9  | 3948.6  | 3863.8  | 3776.8  | 3686.4 | 3415.2 |
| 27.5° | 3940.7 | 3987.0 | 4074.0 | 4131.7  | 4126.0  | 4114.7  | 4076.3  | 3967.8  | 3880.8  | 3798.3 | 3492.0 |
| 30°   | 4140.7 | 4174.6 | 4265.0 | 4278.6  | 4258.3  | 4256.0  | 4201.7  | 4093.3  | 4011.9  | 3948.6 | 3601.7 |
| 32.5° | 4329.4 | 4360.0 | 4432.3 | 4437.9  | 4401.8  | 4406.3  | 4355.4  | 4256.0  | 4209.7  | 4187.1 | 3785.9 |
| 35°   | 4529.5 | 4545.3 | 4607.5 | 4600.7  | 4576.9  | 4573.6  | 4553.2  | 4458.3  | 4473.0  | 4513.7 | 4046.9 |
| 37.5° | 4696.7 | 4728.4 | 4763.4 | 4769.1  | 4767.9  | 4779.2  | 4792.8  | 4747.6  | 4832.3  | 4960.0 | 4389.3 |
| 40°   | 4850.4 | 4877.6 | 4929.5 | 4947.6  | 4991.7  | 5014.3  | 5060.6  | 5061.8  | 5257.3  | 5467.5 | 4810.9 |
| 42.5° | 4954.4 | 5000.7 | 5097.9 | 5130.7  | 5238.1  | 5305.9  | 5374.8  | 5448.3  | 5731.9  | 6002.0 | 5308.1 |
| 45°   | 5044.8 | 5105.8 | 5267.4 | 5369.1  | 5514.9  | 5597.4  | 5743.2  | 5896.9  | 6304.9  | 6658.6 | 5813.3 |
| 47.5° | 5181.5 | 5235.8 | 5421.1 | 5600.8  | 5821.2  | 5916.1  | 6134.2  | 6363.6  | 6897.1  | 7284.7 | 6297.0 |
| 50°   | 5371.4 | 5404.2 | 5592.9 | 5885.6  | 6167.0  | 6289.1  | 6577.2  | 6908.4  | 7529.9  | 7902.9 | 6721.9 |
| 52.5° | 5614.4 | 5627.9 | 5778.2 | 6168.1  | 6538.8  | 6690.2  | 7072.2  | 7458.7  | 8083.7  | 8439.7 | 7058.7 |
| 55°   | 5901.4 | 5878.8 | 5996.4 | 6467.6  | 6963.7  | 7161.5  | 7571.7  | 8015.9  | 8706.4  | 8873.6 | 7303.9 |
| 57.5° | 6185.1 | 6150.1 | 6243.9 | 6831.5  | 7488.1  | 7726.6  | 8204.6  | 8590.0  | 9262.4  | 9279.3 | 7475.7 |
| 60°   | 6485.7 | 6459.7 | 6571.6 | 7258.7  | 8131.1  | 8413.7  | 8855.5  | 9185.5  | 9800.3  | 9561.9 | 7502.8 |
| 62.5° | 6794.2 | 6752.4 | 6911.7 | 7739.0  | 8855.5  | 9112.1  | 9540.4  | 9818.4  | 10328.1 | 9667.0 | 7241.7 |
| 65°   | 7093.7 | 7074.5 | 7320.8 | 8309.7  | 9680.5  | 9972.1  | 10388.0 | 10576.7 | 10750.7 | 9508.7 | 6594.2 |
| 67.5° | 7412.4 | 7450.8 | 7844.1 | 9071.4  | 10756.4 | 11122.5 | 11571.2 | 11393.8 | 10871.6 | 8759.5 | 5553.4 |
| 70°   | 7898.3 | 7923.2 | 8531.2 | 10069.3 | 12143.0 | 12584.9 | 12801.9 | 11684.2 | 10288.5 | 7336.7 | 4174.6 |
| 72.5° | 8107.4 | 8217.0 | 9144.8 | 11116.9 | 13718.4 | 13988.5 | 13215.5 | 11036.6 | 8570.7  | 4983.8 | 2193.5 |
| 73°   | 8061.1 | 8192.2 | 9173.1 | 11276.2 | 13841.6 | 14125.2 | 13127.3 | 10703.3 | 7967.3  | 4292.2 | 1880.5 |
| 75°   | 7483.6 | 7645.2 | 8805.8 | 11142.9 | 13602.0 | 13432.5 | 11710.2 | 9122.2  | 5383.8  | 1951.7 | 856.6  |
| 77.5° | 5904.8 | 5951.2 | 6977.3 | 8997.9  | 10711.2 | 10397.0 | 8764.0  | 5701.4  | 2199.2  | 725.5  | 485.9  |
| 80°   | 2962.0 | 3132.7 | 3932.8 | 5154.4  | 7162.6  | 7059.8  | 5531.9  | 2696.4  | 916.5   | 426.1  | 322.1  |
| 82.5° | 1425.1 | 1546.0 | 1915.5 | 2513.4  | 3957.6  | 3863.8  | 2739.4  | 1473.7  | 582.0   | 248.6  | 189.9  |
| 85°   | 917.6  | 1008.1 | 1219.4 | 1199.0  | 1627.4  | 1553.9  | 1230.7  | 1115.4  | 344.7   | 130.0  | 132.2  |
| 87.5° | 605.7  | 663.4  | 795.6  | 636.3   | 592.2   | 535.7   | 543.6   | 628.3   | 67.8    | 49.7   | 18.1   |
| 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: P453420

CATALOG NUMBER: GLAN-SA4C-722-U-SL4

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 |
| 2.5°  | 3477.3 | 3462.7 | 3414.1 | 3366.6 | 3321.4 | 3278.4 | 3250.2 | 3212.9 | 3188.0 | 3194.8 | 3205.0 |
| 5°    | 3390.3 | 3357.6 | 3271.7 | 3188.0 | 3108.9 | 3015.1 | 2939.4 | 2878.4 | 2832.1 | 2815.1 | 2811.7 |
| 7.5°  | 3298.8 | 3243.4 | 3120.2 | 2976.7 | 2842.2 | 2725.8 | 2591.3 | 2524.7 | 2446.7 | 2419.6 | 2410.5 |
| 10°   | 3243.4 | 3168.8 | 2995.9 | 2795.9 | 2593.6 | 2400.4 | 2254.6 | 2135.9 | 2028.5 | 2008.2 | 1998.0 |
| 12.5° | 3227.6 | 3129.3 | 2896.5 | 2638.8 | 2369.8 | 2132.5 | 1916.7 | 1760.7 | 1656.7 | 1633.0 | 1598.0 |
| 15°   | 3218.6 | 3096.5 | 2803.8 | 2480.6 | 2139.3 | 1850.0 | 1622.8 | 1440.9 | 1346.0 | 1282.7 | 1283.8 |
| 17.5° | 3210.6 | 3059.2 | 2699.8 | 2307.7 | 1940.4 | 1607.0 | 1356.1 | 1192.3 | 1105.2 | 1071.3 | 1068.0 |
| 20°   | 3199.3 | 3015.1 | 2580.0 | 2125.7 | 1713.2 | 1385.5 | 1158.4 | 1036.3 | 977.5  | 949.3  | 948.2  |
| 22.5° | 3194.8 | 2972.2 | 2462.5 | 1940.4 | 1512.1 | 1214.9 | 1027.3 | 941.4  | 904.1  | 884.9  | 884.9  |
| 25°   | 3206.1 | 2941.7 | 2339.3 | 1764.1 | 1333.5 | 1069.1 | 936.9  | 878.1  | 856.6  | 846.5  | 843.1  |
| 27.5° | 3241.2 | 2928.1 | 2217.3 | 1587.8 | 1169.7 | 969.6  | 875.8  | 835.2  | 819.3  | 811.4  | 812.5  |
| 30°   | 3307.8 | 2927.0 | 2097.5 | 1413.8 | 1047.6 | 893.9  | 827.2  | 799.0  | 786.6  | 782.0  | 780.9  |
| 32.5° | 3415.2 | 2951.8 | 1980.0 | 1270.2 | 944.8  | 830.6  | 782.0  | 761.7  | 756.0  | 752.7  | 751.5  |
| 35°   | 3597.1 | 3021.9 | 1863.5 | 1139.1 | 865.7  | 774.1  | 739.1  | 728.9  | 721.0  | 724.4  | 725.5  |
| 37.5° | 3842.4 | 3142.8 | 1752.8 | 1036.3 | 805.8  | 732.3  | 702.9  | 693.9  | 689.4  | 692.8  | 696.1  |
| 40°   | 4171.2 | 3316.9 | 1660.1 | 953.8  | 762.8  | 697.3  | 671.3  | 663.4  | 658.9  | 664.5  | 665.6  |
| 42.5° | 4534.0 | 3518.0 | 1583.3 | 889.4  | 727.8  | 667.9  | 643.0  | 634.0  | 630.6  | 634.0  | 635.1  |
| 45°   | 4906.9 | 3752.0 | 1543.7 | 843.1  | 698.4  | 646.4  | 620.4  | 610.3  | 602.3  | 600.1  | 603.5  |
| 47.5° | 5274.2 | 3955.4 | 1542.6 | 814.8  | 674.7  | 627.2  | 599.0  | 587.7  | 577.5  | 571.8  | 570.7  |
| 50°   | 5573.7 | 4117.0 | 1569.7 | 802.4  | 654.3  | 605.7  | 577.5  | 566.2  | 552.6  | 541.3  | 543.6  |
| 52.5° | 5799.7 | 4222.1 | 1582.2 | 796.7  | 643.0  | 583.1  | 554.9  | 544.7  | 528.9  | 514.2  | 514.2  |
| 55°   | 5945.5 | 4246.9 | 1551.6 | 791.1  | 634.0  | 559.4  | 528.9  | 519.9  | 504.0  | 489.3  | 489.3  |
| 57.5° | 5995.2 | 4170.1 | 1442.0 | 777.5  | 625.0  | 539.1  | 502.9  | 495.0  | 482.6  | 467.9  | 465.6  |
| 60°   | 5880.0 | 3910.2 | 1249.9 | 736.8  | 606.9  | 517.6  | 474.6  | 471.3  | 466.7  | 454.3  | 453.2  |
| 62.5° | 5435.8 | 3358.7 | 1040.8 | 683.7  | 576.4  | 495.0  | 448.7  | 454.3  | 457.7  | 450.9  | 449.8  |
| 65°   | 4696.7 | 2727.0 | 889.4  | 610.3  | 535.7  | 463.3  | 420.4  | 435.1  | 444.1  | 444.1  | 441.9  |
| 67.5° | 3809.6 | 2094.1 | 749.3  | 547.0  | 484.8  | 420.4  | 388.8  | 400.1  | 406.8  | 404.6  | 410.2  |
| 70°   | 2707.7 | 1418.3 | 610.3  | 474.6  | 420.4  | 371.8  | 348.1  | 348.1  | 343.6  | 341.3  | 341.3  |
| 72.5° | 1313.2 | 810.3  | 495.0  | 396.7  | 358.2  | 317.6  | 298.3  | 290.4  | 281.4  | 280.3  | 274.6  |
| 73°   | 1097.3 | 726.7  | 472.4  | 382.0  | 343.6  | 309.6  | 288.2  | 275.7  | 270.1  | 265.6  | 264.4  |
| 75°   | 667.9  | 551.5  | 394.4  | 322.1  | 292.7  | 266.7  | 247.5  | 236.2  | 230.5  | 227.2  | 226.0  |
| 77.5° | 439.6  | 411.4  | 306.3  | 246.4  | 223.8  | 207.9  | 200.0  | 188.7  | 185.3  | 180.8  | 180.8  |
| 80°   | 327.7  | 314.2  | 219.2  | 174.0  | 160.5  | 146.9  | 144.7  | 142.4  | 133.4  | 127.7  | 125.4  |
| 82.5° | 211.3  | 223.8  | 149.2  | 116.4  | 101.7  | 90.4   | 91.5   | 94.9   | 85.9   | 78.0   | 75.7   |
| 85°   | 150.3  | 161.6  | 90.4   | 53.1   | 42.9   | 37.3   | 41.8   | 37.3   | 38.4   | 30.5   | 24.9   |
| 87.5° | 24.9   | 42.9   | 15.8   | 6.8    | 3.4    | 2.3    | 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)