

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: P452964

Luminaire Tested: **GLAN-SA4A-722-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-722-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10647 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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

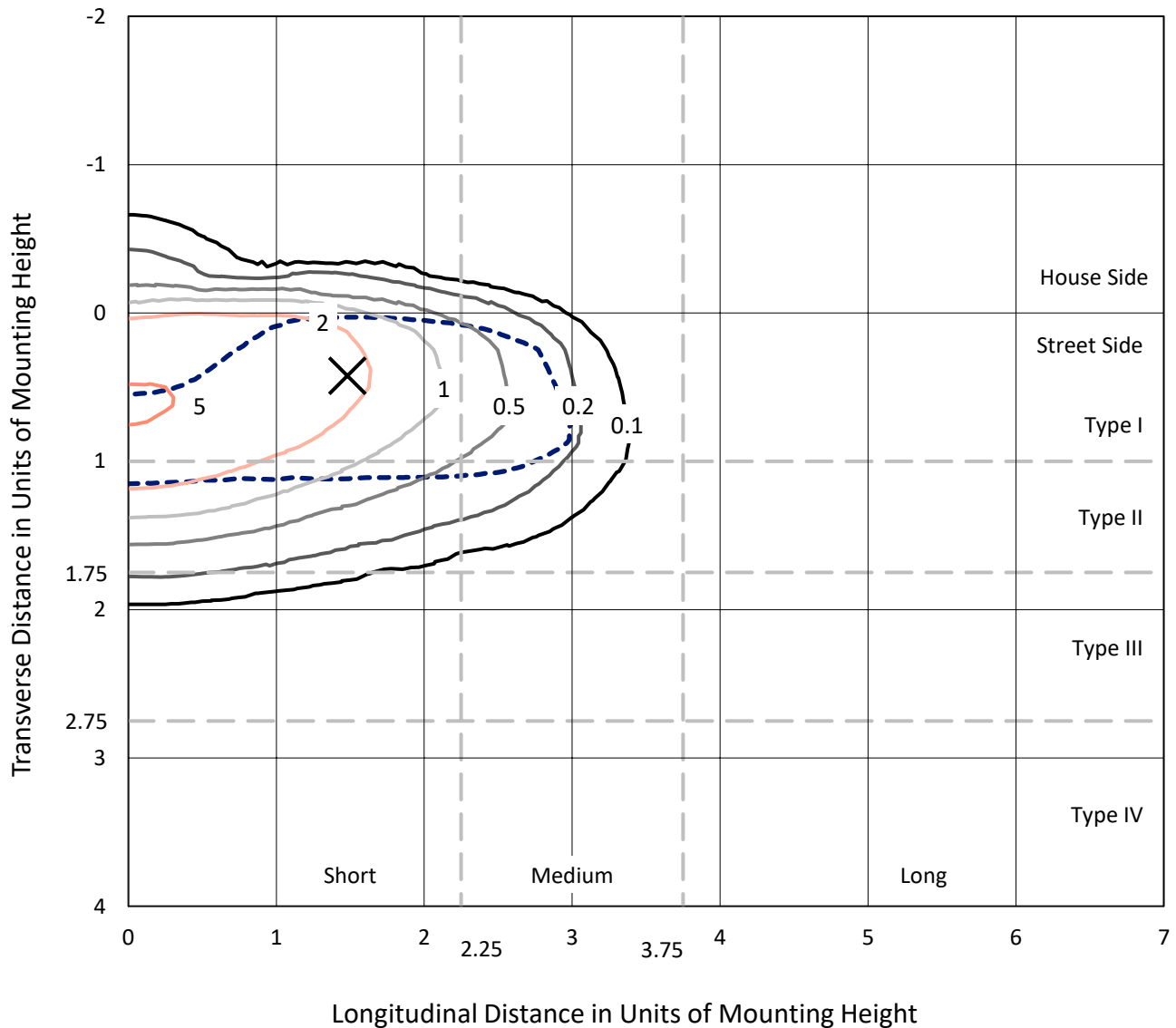


REPORT NUMBER: P452964

CATALOG NUMBER: GLAN-SA4A-722-U-T2R-HSS

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

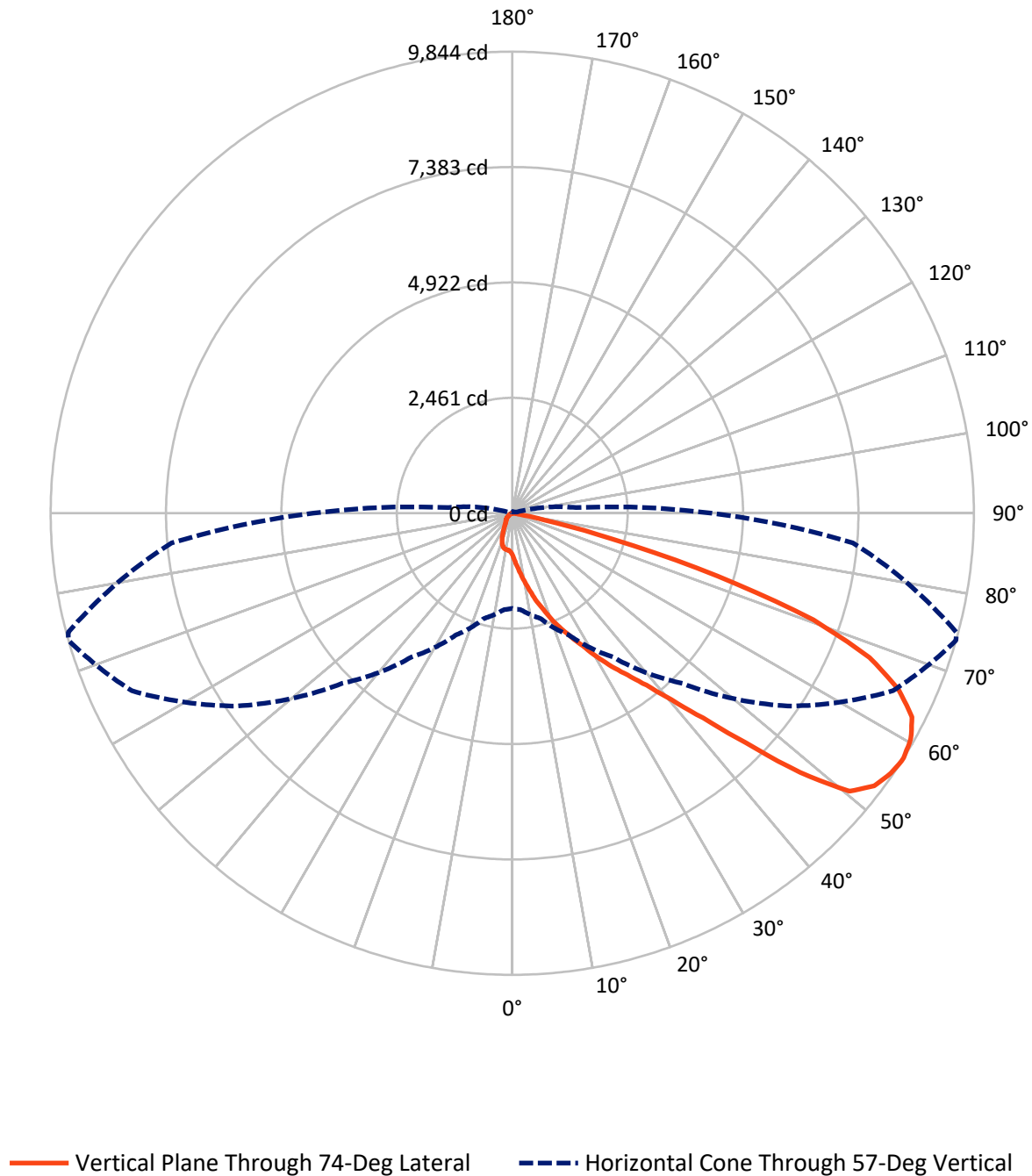


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P452964

CATALOG NUMBER: GLAN-SA4A-722-U-T2R-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P452964

CATALOG NUMBER: GLAN-SA4A-722-U-T2R-HSS

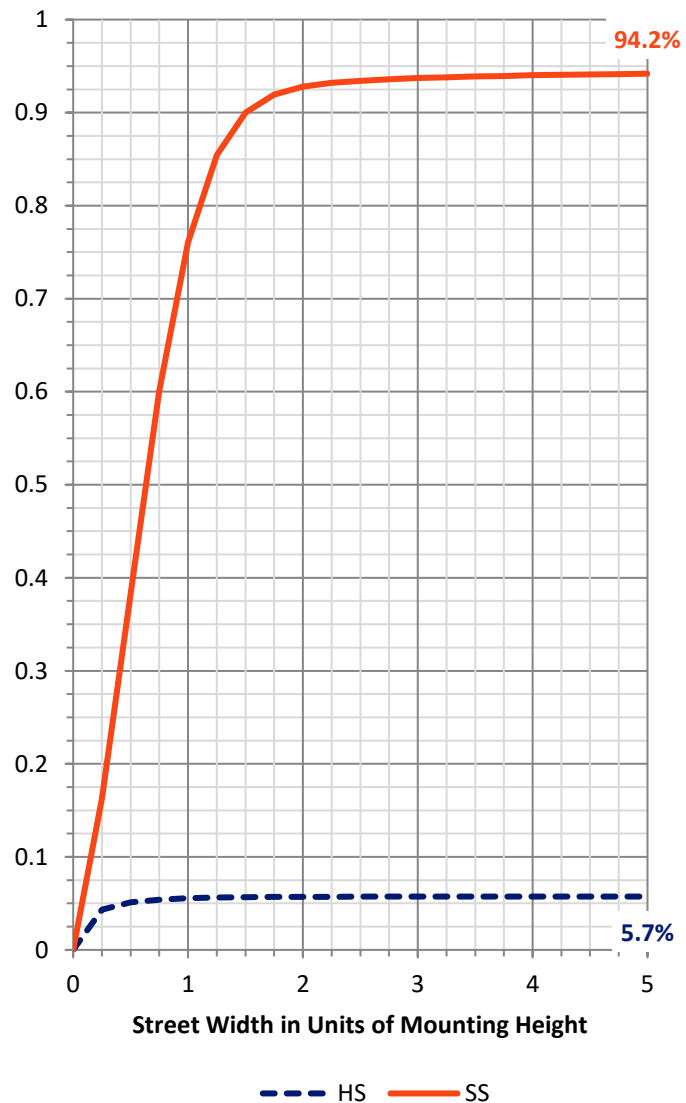
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 614.1    | 0.0    | 614.1   |
|                    | % Fixture | 5.8      | 0.0    | 5.8     |
| <b>Street Side</b> | Lumens    | 10032.9  | 0.0    | 10032.9 |
|                    | % Fixture | 94.2     | 0.0    | 94.2    |
| <b>Total</b>       | Lumens    | 10647.0  | 0.0    | 10647.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 107.6   | 1.0       |
| 10°-20°   | 424.2   | 4.0       |
| 20°-30°   | 907.7   | 8.5       |
| 30°-40°   | 1668.4  | 15.7      |
| 40°-50°   | 2557.7  | 24.0      |
| 50°-60°   | 2705.7  | 25.4      |
| 60°-70°   | 1766.9  | 16.6      |
| 70°-80°   | 482.8   | 4.5       |
| 80°-90°   | 26.0    | 0.2       |
| 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°    | 10647.0 | 100.0     |
| 0°-180°   | 10647.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P452964

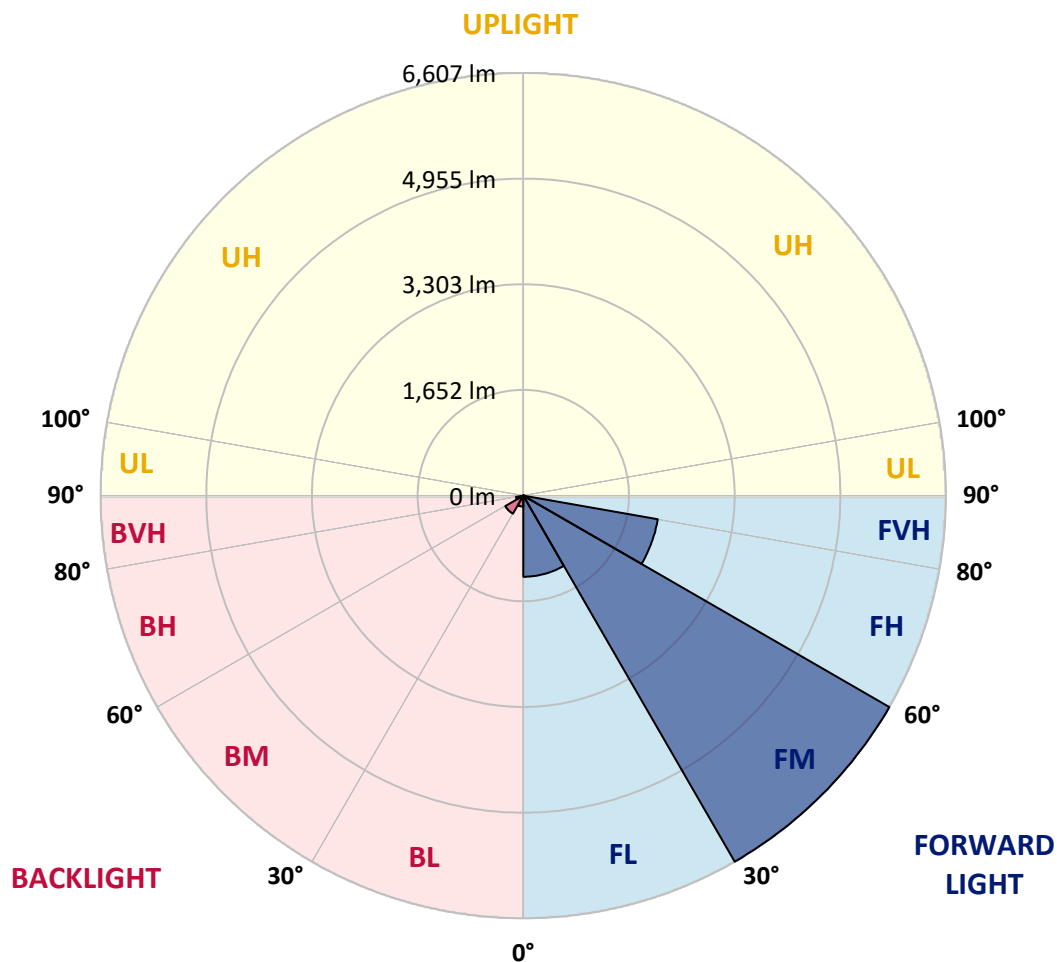
CATALOG NUMBER: GLAN-SA4A-722-U-T2R-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1268.0 | 11.9      |                         |      |         |
| FM   | (30°-60°)   | 6606.7 | 62.1      |                         |      |         |
| FH   | (60°-80°)   | 2134.4 | 20.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 23.8   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 171.5  | 1.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 325.1  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 115.3  | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.1    | 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-G2**

Type II Short



REPORT NUMBER: P452964

CATALOG NUMBER: GLAN-SA4A-722-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 74°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  | 891.7  |
| 2.5°  | 1304.8 | 1293.0 | 1269.5 | 1261.4 | 1226.9 | 1173.2 | 1126.2 | 1062.9 | 1013.0 | 1007.8 | 947.5  |
| 5°    | 1747.3 | 1720.9 | 1709.8 | 1656.9 | 1573.8 | 1495.9 | 1362.1 | 1260.7 | 1143.8 | 1135.0 | 1013.7 |
| 7.5°  | 2173.7 | 2136.9 | 2125.9 | 2075.9 | 1978.9 | 1856.1 | 1682.6 | 1498.1 | 1312.9 | 1296.0 | 1102.6 |
| 10°   | 2482.4 | 2487.6 | 2467.7 | 2434.6 | 2356.0 | 2231.0 | 2017.1 | 1765.0 | 1501.1 | 1479.7 | 1202.6 |
| 12.5° | 2703.7 | 2703.0 | 2706.6 | 2705.9 | 2664.0 | 2569.2 | 2344.2 | 2053.9 | 1708.4 | 1666.5 | 1317.3 |
| 15°   | 2847.8 | 2850.0 | 2861.0 | 2899.2 | 2903.6 | 2844.8 | 2657.4 | 2330.3 | 1948.7 | 1896.5 | 1441.5 |
| 17.5° | 2993.3 | 3008.8 | 3026.4 | 3062.4 | 3094.8 | 3071.2 | 2938.9 | 2618.4 | 2166.3 | 2127.4 | 1574.6 |
| 20°   | 3233.7 | 3255.0 | 3244.7 | 3266.8 | 3283.7 | 3285.9 | 3183.7 | 2884.5 | 2430.2 | 2364.8 | 1726.7 |
| 22.5° | 3618.1 | 3617.4 | 3590.9 | 3551.3 | 3518.2 | 3516.7 | 3424.1 | 3158.0 | 2669.9 | 2606.7 | 1879.6 |
| 25°   | 4104.0 | 4106.3 | 4054.8 | 3941.6 | 3859.3 | 3758.5 | 3652.0 | 3397.6 | 2926.4 | 2848.5 | 2040.6 |
| 27.5° | 4661.2 | 4647.3 | 4569.4 | 4413.5 | 4250.3 | 4078.3 | 3924.7 | 3676.2 | 3198.4 | 3133.7 | 2225.1 |
| 30°   | 5161.8 | 5156.7 | 5065.6 | 4875.2 | 4660.5 | 4487.8 | 4265.0 | 4025.4 | 3550.5 | 3471.1 | 2431.7 |
| 32.5° | 5627.9 | 5635.3 | 5508.8 | 5311.8 | 5104.5 | 4905.3 | 4670.1 | 4359.1 | 3896.0 | 3783.5 | 2656.6 |
| 35°   | 5991.8 | 5999.1 | 5868.3 | 5704.4 | 5491.2 | 5325.8 | 5101.6 | 4714.9 | 4237.1 | 4142.3 | 2915.4 |
| 37.5° | 6185.8 | 6195.4 | 6119.7 | 5996.2 | 5863.1 | 5780.1 | 5571.3 | 5172.9 | 4651.7 | 4594.4 | 3221.2 |
| 40°   | 6222.6 | 6233.6 | 6200.5 | 6167.5 | 6160.1 | 6219.7 | 6158.6 | 5712.4 | 5226.5 | 5136.9 | 3677.0 |
| 42.5° | 6112.3 | 6127.0 | 6141.7 | 6215.2 | 6365.2 | 6583.5 | 6796.0 | 6444.6 | 5966.8 | 5846.2 | 4234.2 |
| 45°   | 5822.7 | 5821.2 | 5879.3 | 6069.7 | 6405.6 | 6871.7 | 7462.0 | 7361.3 | 6975.3 | 6832.0 | 5021.4 |
| 47.5° | 5327.2 | 5319.9 | 5445.6 | 5716.8 | 6240.2 | 6924.6 | 8005.2 | 8474.2 | 8262.5 | 8130.2 | 5867.5 |
| 50°   | 4572.3 | 4608.3 | 4806.1 | 5184.6 | 5829.3 | 6764.4 | 8172.8 | 9204.1 | 9318.8 | 9178.4 | 6551.2 |
| 52.5° | 3688.0 | 3686.5 | 3996.7 | 4510.6 | 5220.7 | 6411.5 | 8055.9 | 9336.5 | 9662.1 | 9554.8 | 6887.9 |
| 55°   | 2729.4 | 2748.5 | 3071.2 | 3589.5 | 4430.4 | 5767.6 | 7674.4 | 9200.5 | 9793.0 | 9717.2 | 7109.9 |
| 57°   | 2030.3 | 2064.2 | 2322.9 | 2871.3 | 3742.4 | 5130.2 | 7166.5 | 8957.2 | 9844.4 | 9803.3 | 7294.4 |
| 57.5° | 1895.1 | 1896.5 | 2148.7 | 2647.1 | 3541.0 | 4885.5 | 7020.9 | 8855.7 | 9842.9 | 9820.2 | 7324.5 |
| 60°   | 1166.6 | 1203.4 | 1377.6 | 1789.2 | 2592.0 | 3812.9 | 6045.4 | 8272.8 | 9766.5 | 9799.6 | 7453.1 |
| 62.5° | 698.3  | 713.8  | 827.0  | 1078.4 | 1670.9 | 2783.1 | 4947.2 | 7526.7 | 9567.3 | 9668.0 | 7444.3 |
| 65°   | 449.1  | 452.8  | 504.3  | 652.8  | 1044.6 | 1881.1 | 3812.2 | 6540.9 | 9052.0 | 9237.2 | 7153.2 |
| 67.5° | 347.0  | 352.8  | 373.4  | 428.6  | 605.7  | 1171.7 | 2696.3 | 5489.0 | 8218.4 | 8457.3 | 6447.5 |
| 70°   | 308.0  | 310.9  | 318.3  | 335.9  | 400.6  | 661.6  | 1677.5 | 4287.8 | 6815.1 | 6882.7 | 5045.7 |
| 72.5° | 251.4  | 259.5  | 282.3  | 288.2  | 317.6  | 413.1  | 933.6  | 2877.9 | 4578.9 | 4595.8 | 2822.8 |
| 75°   | 194.8  | 196.3  | 230.1  | 247.0  | 267.6  | 284.5  | 416.8  | 1451.1 | 2199.4 | 2081.8 | 1087.9 |
| 77.5° | 145.5  | 152.2  | 167.6  | 188.9  | 218.3  | 203.6  | 186.7  | 546.9  | 682.9  | 670.4  | 316.1  |
| 80°   | 93.4   | 97.0   | 116.9  | 141.9  | 169.8  | 133.1  | 105.1  | 160.3  | 150.0  | 154.4  | 75.7   |
| 82.5° | 47.0   | 47.8   | 75.0   | 115.4  | 108.1  | 66.9   | 66.2   | 65.4   | 55.9   | 55.1   | 35.3   |
| 85°   | 5.1    | 11.0   | 48.5   | 66.2   | 48.5   | 22.1   | 30.9   | 30.1   | 29.4   | 30.1   | 20.6   |
| 87.5° | 0.7    | 0.7    | 8.1    | 9.6    | 6.6    | 7.4    | 8.8    | 9.6    | 11.8   | 11.0   | 8.8    |
| 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: P452964

CATALOG NUMBER: GLAN-SA4A-722-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 891.7  | 891.7  | 891.7 | 891.7 | 891.7 | 891.7 | 891.7 | 891.7 | 891.7 | 891.7 | 891.7 |
| 2.5°  | 918.1  | 888.7  | 834.3 | 782.1 | 743.2 | 718.2 | 685.8 | 674.1 | 657.2 | 655.0 | 646.9 |
| 5°    | 957.8  | 902.0  | 807.1 | 732.2 | 671.9 | 626.3 | 586.6 | 553.5 | 527.1 | 521.2 | 524.1 |
| 7.5°  | 1014.4 | 931.4  | 799.1 | 696.9 | 613.1 | 535.2 | 471.9 | 433.0 | 405.0 | 394.7 | 396.2 |
| 10°   | 1078.4 | 970.3  | 797.6 | 659.4 | 531.5 | 435.9 | 366.8 | 332.3 | 316.1 | 310.2 | 303.6 |
| 12.5° | 1154.1 | 1015.2 | 793.9 | 601.3 | 441.8 | 347.7 | 298.4 | 277.9 | 262.4 | 258.0 | 258.0 |
| 15°   | 1239.4 | 1062.9 | 776.3 | 529.3 | 358.7 | 287.4 | 254.3 | 238.2 | 233.0 | 228.6 | 228.6 |
| 17.5° | 1328.3 | 1110.0 | 739.5 | 440.3 | 297.7 | 246.3 | 225.7 | 216.1 | 208.8 | 203.6 | 203.6 |
| 20°   | 1429.8 | 1156.3 | 680.7 | 361.7 | 251.4 | 219.8 | 203.6 | 192.6 | 186.7 | 182.3 | 180.8 |
| 22.5° | 1526.1 | 1193.8 | 605.7 | 297.0 | 219.1 | 197.7 | 183.0 | 171.3 | 165.4 | 163.2 | 163.2 |
| 25°   | 1626.0 | 1216.6 | 515.3 | 245.5 | 199.9 | 179.4 | 163.2 | 153.6 | 148.5 | 147.0 | 146.3 |
| 27.5° | 1723.1 | 1229.8 | 435.9 | 214.6 | 182.3 | 162.5 | 147.0 | 139.7 | 134.5 | 133.1 | 133.8 |
| 30°   | 1840.7 | 1232.0 | 358.7 | 192.6 | 166.9 | 146.3 | 132.3 | 125.7 | 122.8 | 121.3 | 120.6 |
| 32.5° | 1959.8 | 1229.1 | 301.4 | 179.4 | 152.2 | 132.3 | 120.6 | 115.4 | 113.2 | 111.0 | 111.0 |
| 35°   | 2093.6 | 1213.6 | 256.5 | 166.1 | 138.2 | 120.6 | 110.3 | 105.9 | 102.9 | 100.7 | 100.0 |
| 37.5° | 2259.7 | 1205.6 | 230.8 | 151.4 | 125.7 | 109.5 | 100.0 | 95.6  | 93.4  | 90.4  | 89.7  |
| 40°   | 2521.4 | 1241.6 | 222.7 | 138.2 | 113.2 | 99.2  | 90.4  | 85.3  | 82.3  | 79.4  | 78.7  |
| 42.5° | 2847.8 | 1304.8 | 209.5 | 125.0 | 102.2 | 89.7  | 80.9  | 75.0  | 69.8  | 66.2  | 64.7  |
| 45°   | 3270.4 | 1387.9 | 188.9 | 111.0 | 92.6  | 79.4  | 71.3  | 64.0  | 57.3  | 54.4  | 53.7  |
| 47.5° | 3713.7 | 1468.0 | 170.5 | 100.0 | 82.3  | 70.6  | 61.7  | 53.7  | 47.8  | 45.6  | 44.8  |
| 50°   | 3985.7 | 1484.2 | 158.8 | 87.5  | 72.0  | 61.0  | 52.2  | 44.8  | 41.2  | 39.0  | 39.0  |
| 52.5° | 4109.9 | 1458.4 | 142.6 | 76.5  | 62.5  | 53.7  | 44.8  | 39.0  | 36.8  | 35.3  | 34.5  |
| 55°   | 4196.7 | 1418.7 | 121.3 | 66.2  | 53.7  | 45.6  | 39.7  | 35.3  | 32.3  | 30.9  | 30.1  |
| 57°   | 4247.4 | 1365.1 | 105.1 | 58.1  | 46.3  | 39.7  | 35.3  | 31.6  | 28.7  | 25.7  | 25.7  |
| 57.5° | 4249.6 | 1344.5 | 100.7 | 57.3  | 44.1  | 38.2  | 34.5  | 30.9  | 27.2  | 24.3  | 23.5  |
| 60°   | 4184.2 | 1203.4 | 80.9  | 48.5  | 35.3  | 32.3  | 28.7  | 24.3  | 19.1  | 16.2  | 15.4  |
| 62.5° | 3973.9 | 1024.0 | 66.9  | 41.2  | 28.7  | 25.0  | 20.6  | 18.4  | 13.2  | 9.6   | 9.6   |
| 65°   | 3655.6 | 830.7  | 57.3  | 33.1  | 23.5  | 18.4  | 14.0  | 13.2  | 8.1   | 4.4   | 3.7   |
| 67.5° | 3195.5 | 646.9  | 48.5  | 27.2  | 19.8  | 13.2  | 9.6   | 8.8   | 4.4   | 1.5   | 0.0   |
| 70°   | 2434.6 | 441.1  | 40.4  | 22.1  | 14.7  | 9.6   | 6.6   | 5.1   | 2.9   | 0.7   | 0.0   |
| 72.5° | 1403.3 | 242.6  | 33.8  | 16.9  | 11.0  | 7.4   | 5.1   | 2.9   | 2.9   | 0.0   | 0.0   |
| 75°   | 501.3  | 104.4  | 25.7  | 12.5  | 8.8   | 5.9   | 3.7   | 1.5   | 2.2   | 0.7   | 0.0   |
| 77.5° | 159.5  | 55.9   | 16.9  | 9.6   | 7.4   | 4.4   | 2.9   | 1.5   | 1.5   | 0.7   | 0.0   |
| 80°   | 47.0   | 29.4   | 10.3  | 8.1   | 5.1   | 3.7   | 2.2   | 0.7   | 1.5   | 0.7   | 0.0   |
| 82.5° | 25.7   | 14.7   | 8.1   | 5.9   | 5.1   | 2.9   | 2.2   | 0.7   | 0.7   | 0.7   | 0.0   |
| 85°   | 13.2   | 8.8    | 6.6   | 5.9   | 5.1   | 2.9   | 2.2   | 0.7   | 0.0   | 0.7   | 0.7   |
| 87.5° | 7.4    | 6.6    | 6.6   | 5.9   | 5.1   | 3.7   | 2.2   | 0.7   | 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)