

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: P529175

Luminaire Tested: **GLAN-SA4B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13278 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

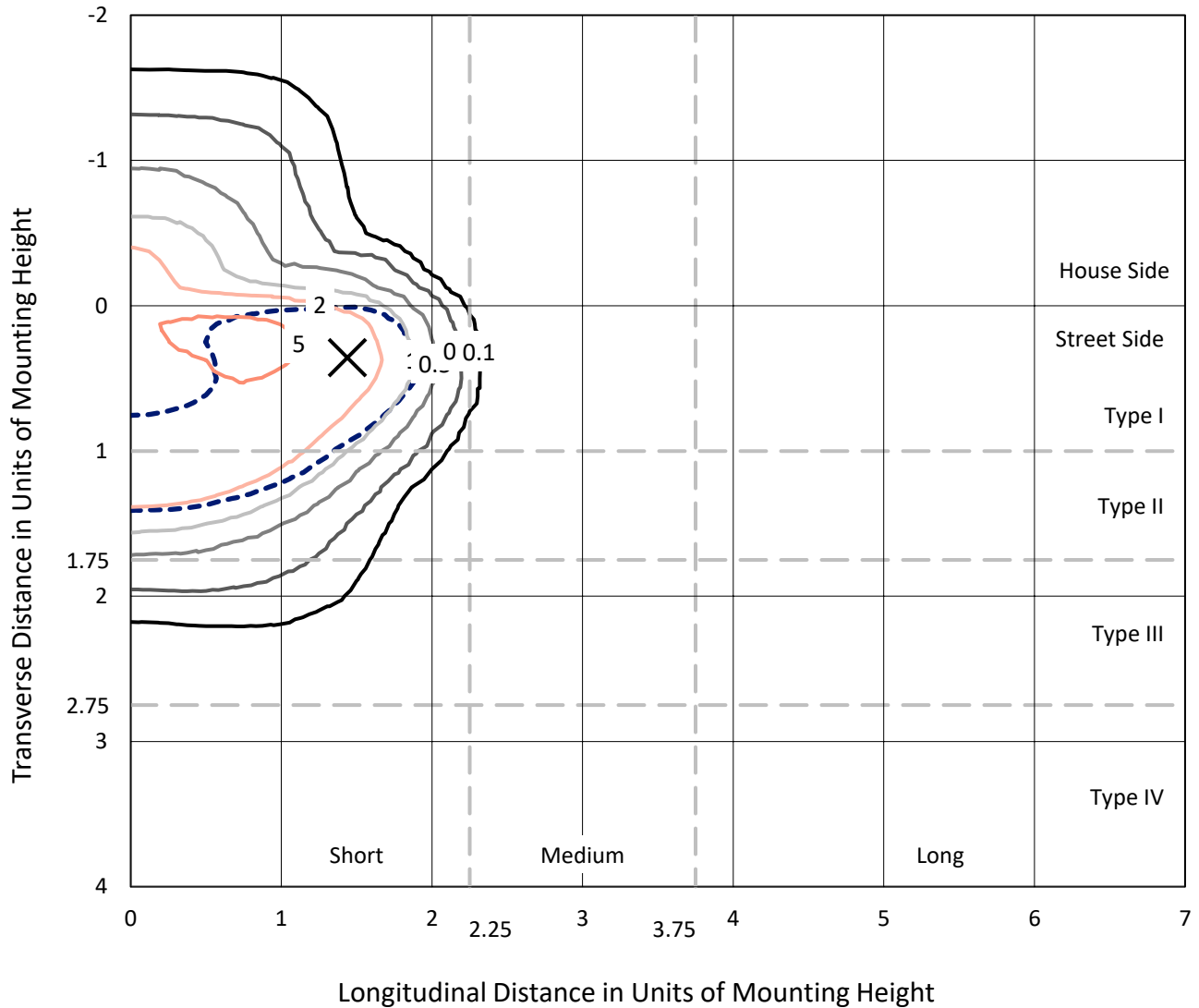
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529175  
 CATALOG NUMBER: GLAN-SA4B-740-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

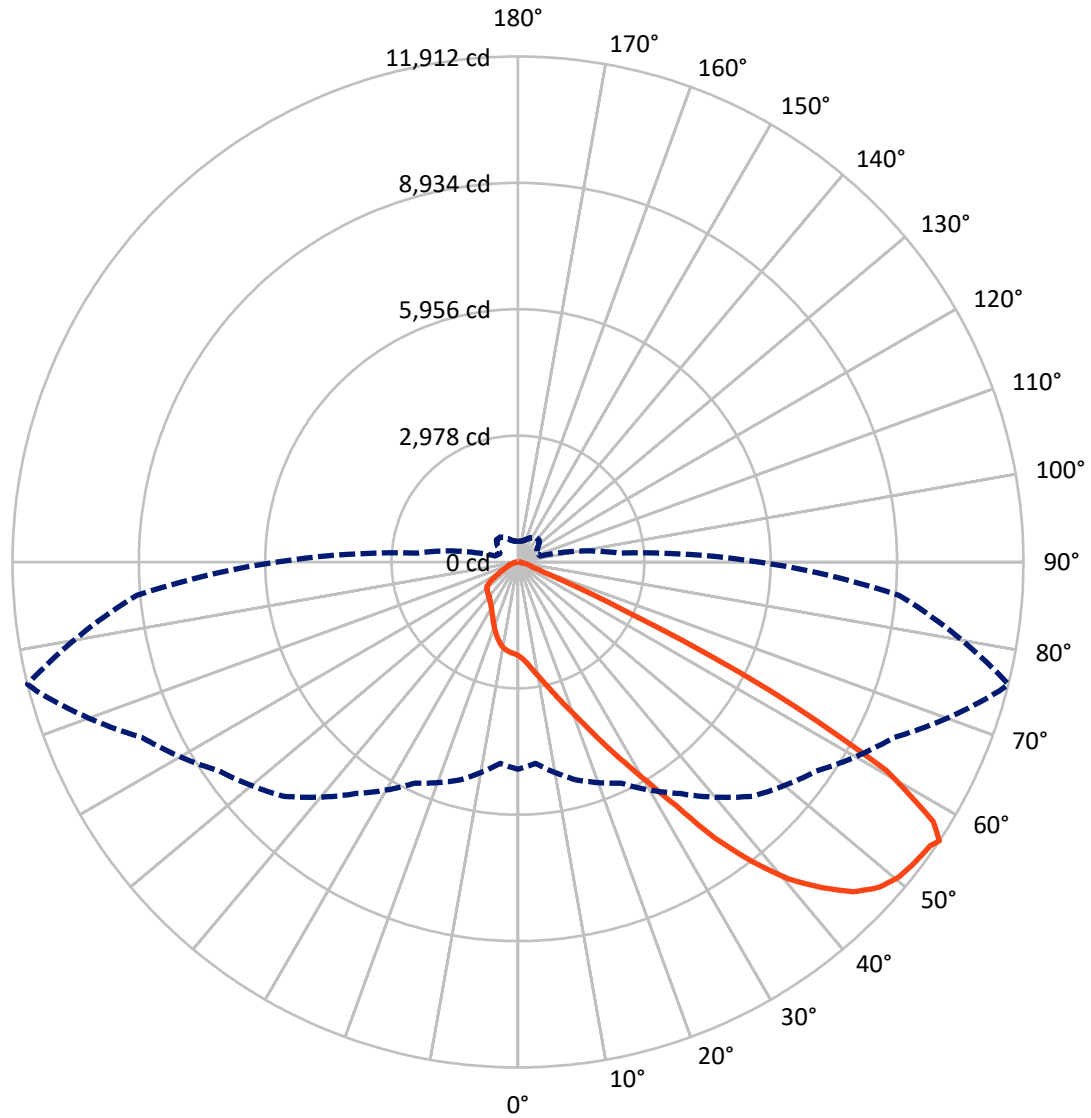
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

REPORT NUMBER: P529175  
CATALOG NUMBER: GLAN-SA4B-740-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529175  
 CATALOG NUMBER: GLAN-SA4B-740-U-T2-GRSBK

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2085.9   | 0.0    | 2085.9  |
|                    | % Fixture | 15.7     | 0.0    | 15.7    |
| <b>Street Side</b> | Lumens    | 11192.1  | 0.0    | 11192.1 |
|                    | % Fixture | 84.3     | 0.0    | 84.3    |
| <b>Total</b>       | Lumens    | 13278.0  | 0.0    | 13278.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 222.6   | 1.7       |
| 10°-20°   | 715.3   | 5.4       |
| 20°-30°   | 1297.0  | 9.8       |
| 30°-40°   | 2236.7  | 16.8      |
| 40°-50°   | 3633.6  | 27.4      |
| 50°-60°   | 3829.9  | 28.8      |
| 60°-70°   | 1170.2  | 8.8       |
| 70°-80°   | 150.0   | 1.1       |
| 80°-90°   | 22.8    | 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°    | 13278.0 | 100.0     |
| 0°-180°   | 13278.0 | 100.0     |

**Coefficient of Utilization**

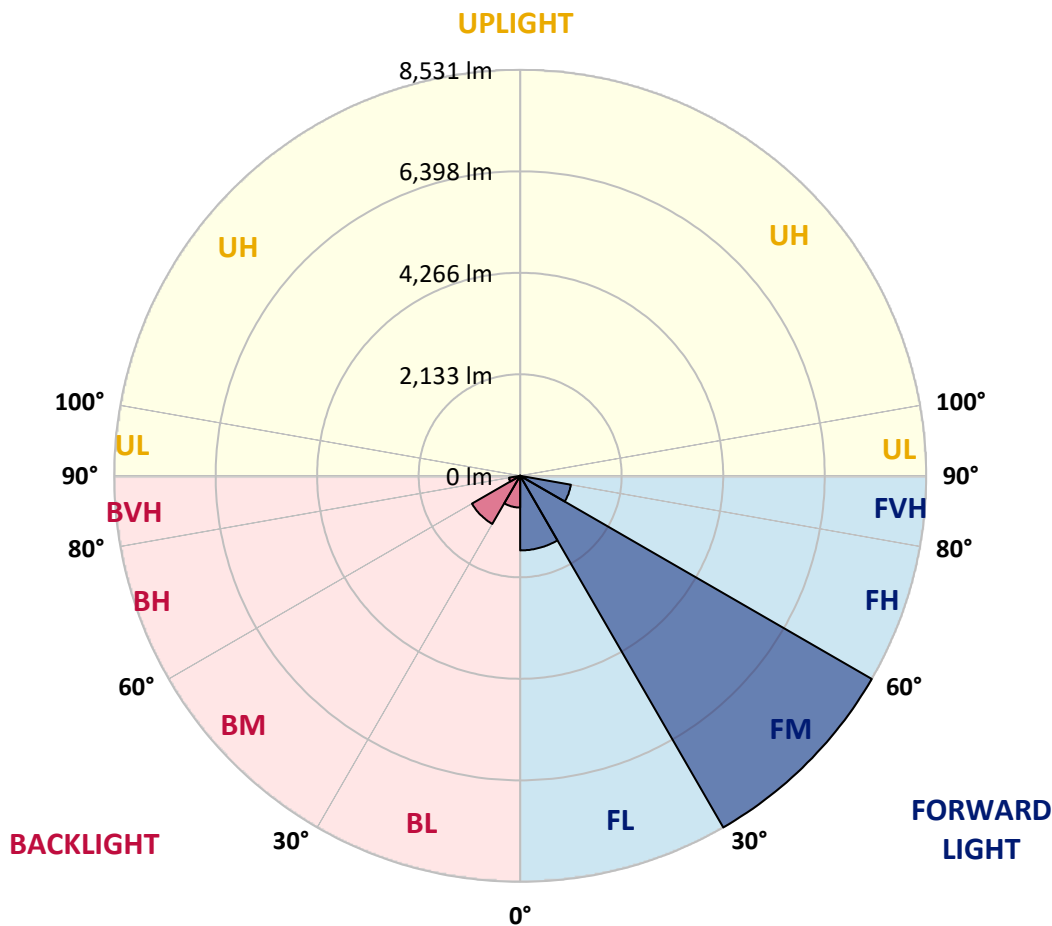


REPORT NUMBER: P529175  
 CATALOG NUMBER: GLAN-SA4B-740-U-T2-GRSBK

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1567.6 | 11.8      |                         |      |         |
| FM (30°-60°)   | 8531.1 | 64.2      |                         |      |         |
| FH (60°-80°)   | 1082.2 | 8.2       |                         |      | G1/1800 |
| FVH (80°-90°)  | 11.2   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 667.3  | 5.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1169.0 | 8.8       | B2/2500                 |      |         |
| BH (60°-80°)   | 238.0  | 1.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 11.6   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P529175

CATALOG NUMBER: GLAN-SA4B-740-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 76°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1  | 2210.1  | 2210.1 |
| 2.5°  | 2545.5 | 2486.7 | 2489.2 | 2484.3 | 2476.9 | 2450.0 | 2369.2 | 2357.0 | 2303.2  | 2288.5  | 2239.5 |
| 5°    | 2851.4 | 2800.0 | 2829.4 | 2785.3 | 2743.7 | 2719.2 | 2587.1 | 2525.9 | 2440.2  | 2408.4  | 2339.9 |
| 7.5°  | 3042.3 | 3017.8 | 3008.0 | 3010.5 | 2971.3 | 2910.1 | 2851.4 | 2716.8 | 2601.8  | 2577.3  | 2432.9 |
| 10°   | 3135.3 | 3120.6 | 3135.3 | 3128.0 | 3145.1 | 3152.5 | 3049.7 | 2968.9 | 2800.0  | 2758.4  | 2533.2 |
| 12.5° | 3157.3 | 3186.7 | 3199.0 | 3230.8 | 3272.4 | 3343.4 | 3336.0 | 3225.9 | 3000.7  | 2973.8  | 2687.4 |
| 15°   | 3211.2 | 3235.7 | 3223.4 | 3274.8 | 3353.2 | 3473.1 | 3536.7 | 3519.6 | 3277.3  | 3228.3  | 2866.1 |
| 17.5° | 3260.1 | 3216.1 | 3257.7 | 3360.5 | 3438.8 | 3622.4 | 3776.6 | 3847.6 | 3578.3  | 3522.0  | 3030.1 |
| 20°   | 3326.2 | 3314.0 | 3306.6 | 3358.0 | 3497.6 | 3742.3 | 4048.3 | 4178.0 | 3916.1  | 3857.3  | 3265.0 |
| 22.5° | 3526.9 | 3529.4 | 3524.5 | 3448.6 | 3549.0 | 3825.5 | 4285.7 | 4606.3 | 4319.9  | 4271.0  | 3531.8 |
| 25°   | 3791.3 | 3759.4 | 3735.0 | 3673.8 | 3661.5 | 3901.4 | 4525.5 | 5130.1 | 4804.6  | 4770.3  | 3820.6 |
| 27.5° | 4070.3 | 4070.3 | 3996.9 | 3940.6 | 3862.2 | 4089.9 | 4745.8 | 5639.2 | 5389.5  | 5343.0  | 4072.7 |
| 30°   | 4373.8 | 4390.9 | 4381.1 | 4261.2 | 4212.2 | 4295.5 | 4971.0 | 6290.2 | 6060.1  | 6001.4  | 4488.8 |
| 32.5° | 4821.7 | 4785.0 | 4826.6 | 4726.2 | 4581.8 | 4655.3 | 5325.9 | 6872.7 | 6931.5  | 6848.3  | 5034.6 |
| 35°   | 5414.0 | 5392.0 | 5365.0 | 5201.1 | 5029.7 | 5088.5 | 5827.6 | 7589.9 | 8025.5  | 7983.9  | 5585.3 |
| 37.5° | 5945.1 | 5932.9 | 5910.8 | 5798.3 | 5600.0 | 5671.0 | 6397.9 | 8336.4 | 9092.7  | 8955.6  | 6363.6 |
| 40°   | 6503.2 | 6569.2 | 6498.3 | 6397.9 | 6216.8 | 6373.4 | 7068.5 | 8779.4 | 9990.9  | 9824.5  | 6958.4 |
| 42.5° | 7259.5 | 7208.1 | 7239.9 | 7056.3 | 6958.4 | 7129.7 | 7741.6 | 9222.4 | 10688.5 | 10490.2 | 7589.9 |
| 45°   | 8064.7 | 8067.1 | 7981.5 | 7922.7 | 7668.2 | 7854.2 | 8155.3 | 9467.1 | 11244.1 | 11089.9 | 8067.1 |
| 47.5° | 8581.1 | 8578.7 | 8671.7 | 8764.7 | 8502.8 | 8319.2 | 8436.7 | 9699.7 | 11530.4 | 11459.5 | 8240.9 |
| 50°   | 8500.4 | 8524.8 | 8644.8 | 8992.3 | 9129.4 | 8882.2 | 8701.1 | 9631.1 | 11660.2 | 11652.8 | 8390.2 |
| 52.5° | 7394.1 | 7474.8 | 7675.5 | 8177.3 | 8867.5 | 9173.4 | 8977.6 | 9758.4 | 11723.8 | 11736.0 | 8612.9 |
| 55°   | 5629.4 | 5673.4 | 6055.3 | 6664.7 | 7428.3 | 8475.9 | 8867.5 | 9858.8 | 11772.7 | 11794.8 | 8882.2 |
| 56°   | 4882.9 | 4765.4 | 5316.1 | 5749.3 | 6662.2 | 7807.7 | 8588.5 | 9780.4 | 11743.4 | 11912.3 | 9016.8 |
| 57.5° | 3686.0 | 3607.7 | 4053.2 | 4594.1 | 5472.7 | 6681.8 | 7722.0 | 9410.9 | 11545.1 | 11542.7 | 8823.4 |
| 60°   | 2242.0 | 2163.6 | 2506.3 | 2824.5 | 3316.4 | 4114.3 | 5218.2 | 7494.4 | 9760.9  | 9966.4  | 7144.4 |
| 62.5° | 1333.9 | 1382.9 | 1720.6 | 1914.0 | 2073.1 | 2156.3 | 2699.7 | 4454.6 | 6512.9  | 6659.8  | 4432.5 |
| 65°   | 888.5  | 905.6  | 1160.1 | 1478.3 | 1549.3 | 1233.6 | 1099.0 | 1803.8 | 2824.5  | 2733.9  | 1828.3 |
| 67.5° | 548.3  | 587.4  | 778.3  | 1111.2 | 1231.1 | 900.7  | 521.3  | 673.1  | 778.3   | 778.3   | 528.7  |
| 70°   | 332.9  | 352.4  | 518.9  | 756.3  | 844.4  | 580.1  | 379.4  | 379.4  | 374.5   | 367.1   | 315.7  |
| 72.5° | 159.1  | 171.3  | 264.3  | 389.2  | 396.5  | 305.9  | 293.7  | 320.6  | 313.3   | 310.8   | 261.9  |
| 75°   | 68.5   | 73.4   | 93.0   | 122.4  | 139.5  | 129.7  | 178.7  | 230.1  | 237.4   | 230.1   | 188.5  |
| 77.5° | 22.0   | 24.5   | 34.3   | 44.1   | 46.5   | 56.3   | 75.9   | 95.5   | 110.1   | 102.8   | 93.0   |
| 80°   | 2.4    | 4.9    | 9.8    | 22.0   | 34.3   | 44.1   | 56.3   | 63.6   | 71.0    | 71.0    | 66.1   |
| 82.5° | 2.4    | 2.4    | 9.8    | 19.6   | 31.8   | 41.6   | 53.8   | 61.2   | 71.0    | 73.4    | 68.5   |
| 85°   | 0.0    | 2.4    | 7.3    | 17.1   | 26.9   | 26.9   | 24.5   | 24.5   | 17.1    | 17.1    | 17.1   |
| 87.5° | 0.0    | 0.0    | 2.4    | 2.4    | 2.4    | 4.9    | 4.9    | 4.9    | 4.9     | 4.9     | 4.9    |
| 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: P529175

CATALOG NUMBER: GLAN-SA4B-740-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 | 2210.1 |
| 2.5°  | 2229.7 | 2224.8 | 2158.7 | 2117.1 | 2095.1 | 2051.1 | 2024.1 | 2004.5 | 1989.9 | 1972.7 | 1975.2 |
| 5°    | 2259.1 | 2242.0 | 2131.8 | 2055.9 | 1965.4 | 1916.4 | 1874.8 | 1840.6 | 1818.5 | 1813.6 | 1803.8 |
| 7.5°  | 2342.3 | 2251.8 | 2085.3 | 1948.3 | 1833.2 | 1784.3 | 1747.6 | 1725.5 | 1735.3 | 1713.3 | 1730.4 |
| 10°   | 2405.9 | 2271.3 | 2029.0 | 1830.8 | 1715.7 | 1679.0 | 1659.4 | 1676.6 | 1701.1 | 1691.3 | 1679.0 |
| 12.5° | 2484.3 | 2290.9 | 1938.5 | 1718.2 | 1610.5 | 1583.6 | 1617.8 | 1649.7 | 1698.6 | 1718.2 | 1693.7 |
| 15°   | 2572.4 | 2312.9 | 1823.4 | 1588.5 | 1519.9 | 1542.0 | 1600.7 | 1657.0 | 1705.9 | 1730.4 | 1745.1 |
| 17.5° | 2680.1 | 2305.6 | 1710.8 | 1485.7 | 1434.3 | 1497.9 | 1568.9 | 1620.3 | 1693.7 | 1730.4 | 1720.6 |
| 20°   | 2780.4 | 2281.1 | 1586.0 | 1382.9 | 1385.3 | 1444.1 | 1502.8 | 1586.0 | 1625.2 | 1674.1 | 1657.0 |
| 22.5° | 2875.9 | 2237.1 | 1456.3 | 1311.9 | 1311.9 | 1402.4 | 1431.8 | 1485.7 | 1519.9 | 1544.4 | 1542.0 |
| 25°   | 3010.5 | 2153.8 | 1348.6 | 1243.4 | 1272.7 | 1331.5 | 1355.9 | 1373.1 | 1358.4 | 1378.0 | 1380.4 |
| 27.5° | 3105.9 | 2068.2 | 1260.5 | 1182.2 | 1236.0 | 1280.1 | 1272.7 | 1262.9 | 1228.7 | 1201.7 | 1218.9 |
| 30°   | 3208.7 | 1967.8 | 1184.6 | 1140.6 | 1169.9 | 1209.1 | 1179.7 | 1150.4 | 1096.5 | 1052.4 | 1054.9 |
| 32.5° | 3355.6 | 1921.3 | 1118.5 | 1091.6 | 1130.8 | 1135.7 | 1103.8 | 1059.8 | 1005.9 | 964.3  | 961.9  |
| 35°   | 3629.7 | 1892.0 | 1062.2 | 1059.8 | 1067.1 | 1069.6 | 1037.8 | 983.9  | 961.9  | 927.6  | 939.9  |
| 37.5° | 3903.9 | 1877.3 | 1023.1 | 1013.3 | 1010.8 | 1013.3 | 976.6  | 925.2  | 966.8  | 964.3  | 969.2  |
| 40°   | 4253.9 | 1943.4 | 966.8  | 954.5  | 957.0  | 957.0  | 910.5  | 895.8  | 969.2  | 976.6  | 979.0  |
| 42.5° | 4608.7 | 2026.6 | 930.1  | 890.9  | 900.7  | 900.7  | 876.2  | 859.1  | 910.5  | 861.5  | 854.2  |
| 45°   | 4917.1 | 2149.0 | 890.9  | 827.3  | 851.7  | 864.0  | 856.6  | 827.3  | 795.5  | 712.2  | 712.2  |
| 47.5° | 5017.5 | 2256.6 | 844.4  | 766.1  | 785.7  | 839.5  | 817.5  | 756.3  | 700.0  | 631.5  | 626.6  |
| 50°   | 5193.7 | 2374.1 | 807.7  | 695.1  | 736.7  | 802.8  | 780.8  | 719.6  | 655.9  | 607.0  | 609.4  |
| 52.5° | 5374.8 | 2508.7 | 739.2  | 611.9  | 663.3  | 773.4  | 773.4  | 704.9  | 607.0  | 572.7  | 567.8  |
| 55°   | 5646.5 | 2503.8 | 616.8  | 501.7  | 592.3  | 729.4  | 741.6  | 631.5  | 543.4  | 516.4  | 516.4  |
| 56°   | 5685.7 | 2391.3 | 555.6  | 469.9  | 560.5  | 717.1  | 719.6  | 611.9  | 518.9  | 489.5  | 489.5  |
| 57.5° | 5392.0 | 2158.7 | 487.1  | 430.8  | 521.3  | 695.1  | 697.6  | 594.8  | 499.3  | 457.7  | 452.8  |
| 60°   | 4148.6 | 1461.2 | 406.3  | 384.3  | 472.4  | 626.6  | 638.8  | 540.9  | 438.1  | 406.3  | 403.8  |
| 62.5° | 2342.3 | 810.1  | 357.3  | 347.6  | 406.3  | 533.6  | 570.3  | 472.4  | 372.0  | 354.9  | 359.8  |
| 65°   | 1069.6 | 445.5  | 301.0  | 281.5  | 328.0  | 411.2  | 460.1  | 389.2  | 305.9  | 286.4  | 286.4  |
| 67.5° | 391.6  | 303.5  | 257.0  | 222.7  | 230.1  | 266.8  | 298.6  | 252.1  | 203.1  | 173.8  | 181.1  |
| 70°   | 279.0  | 254.5  | 225.2  | 193.4  | 178.7  | 173.8  | 171.3  | 142.0  | 100.3  | 78.3   | 83.2   |
| 72.5° | 225.2  | 210.5  | 188.5  | 164.0  | 139.5  | 117.5  | 100.3  | 73.4   | 46.5   | 31.8   | 29.4   |
| 75°   | 161.5  | 154.2  | 137.1  | 117.5  | 97.9   | 83.2   | 68.5   | 46.5   | 24.5   | 12.2   | 12.2   |
| 77.5° | 83.2   | 83.2   | 80.8   | 73.4   | 61.2   | 49.0   | 39.2   | 26.9   | 14.7   | 4.9    | 4.9    |
| 80°   | 63.6   | 68.5   | 71.0   | 63.6   | 56.3   | 44.1   | 31.8   | 19.6   | 9.8    | 2.4    | 2.4    |
| 82.5° | 61.2   | 71.0   | 75.9   | 66.1   | 56.3   | 41.6   | 31.8   | 19.6   | 9.8    | 2.4    | 2.4    |
| 85°   | 14.7   | 14.7   | 22.0   | 24.5   | 31.8   | 34.3   | 26.9   | 17.1   | 7.3    | 2.4    | 2.4    |
| 87.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 2.4    | 2.4    | 2.4    | 2.4    | 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)