

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: P532015

Luminaire Tested: **GLAN-SA7B-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-750-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24104 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

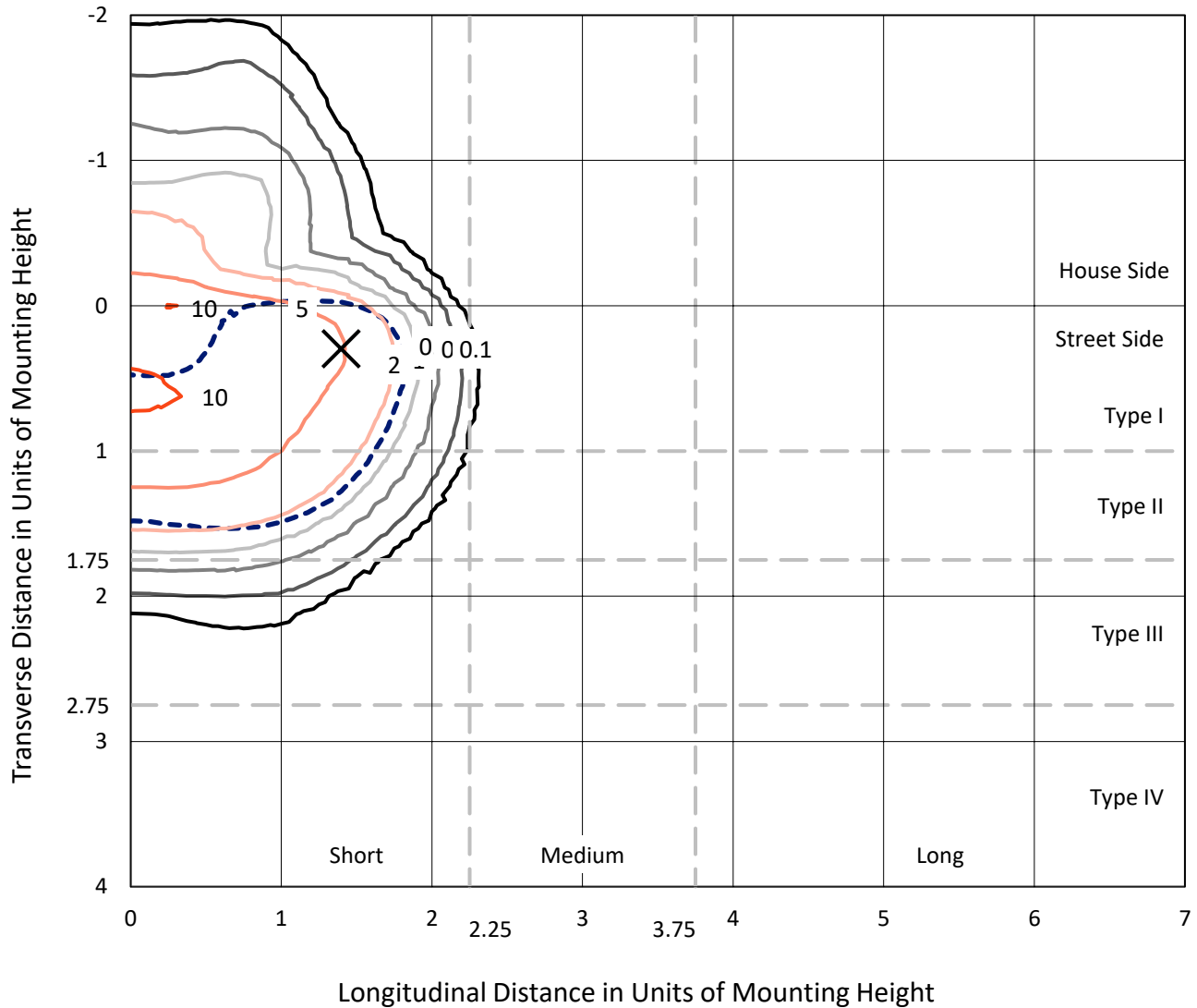
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

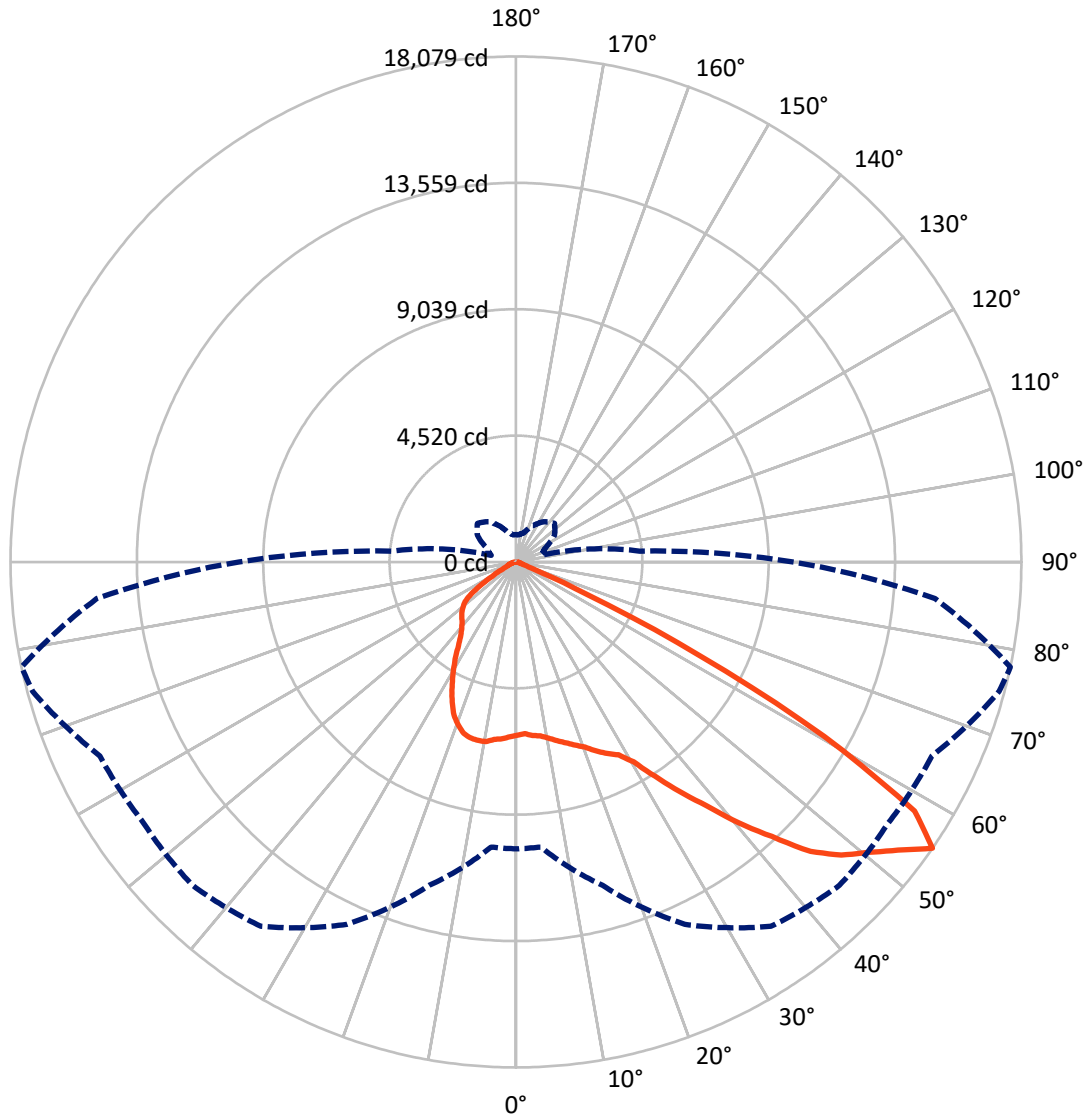
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4477.0   | 0.0    | 4477.0  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 19626.9  | 0.0    | 19626.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 24104.0  | 0.0    | 24104.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 552.6   | 2.3       |
| 10°-20°   | 1462.4  | 6.1       |
| 20°-30°   | 2563.4  | 10.6      |
| 30°-40°   | 4226.7  | 17.5      |
| 40°-50°   | 6150.4  | 25.5      |
| 50°-60°   | 6969.0  | 28.9      |
| 60°-70°   | 1992.6  | 8.3       |
| 70°-80°   | 154.7   | 0.6       |
| 80°-90°   | 32.2    | 0.1       |
| 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°    | 24104.0 | 100.0     |
| 0°-180°   | 24104.0 | 100.0     |

**Coefficient of Utilization**



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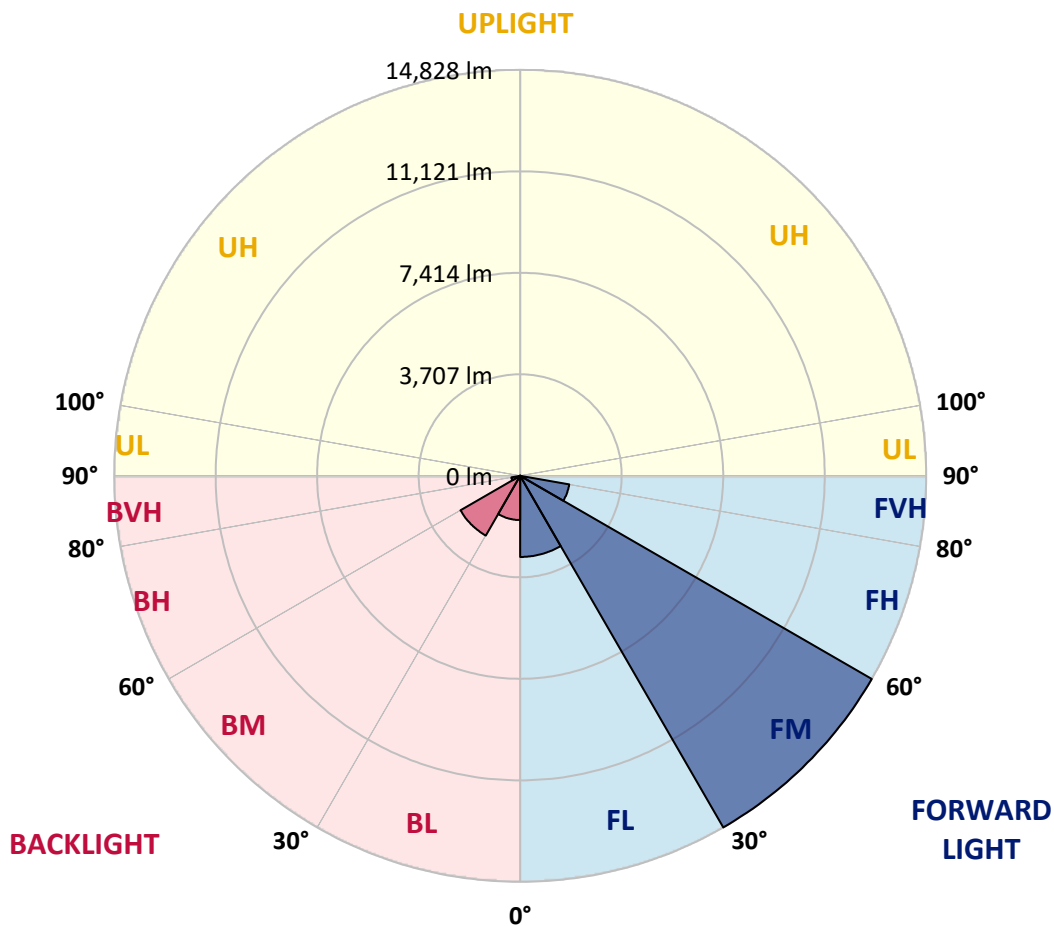
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2963.1  | 12.3      |                         |      |         |
| FM (30°-60°)   | 14827.7 | 61.5      |                         |      |         |
| FH (60°-80°)   | 1820.5  | 7.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 15.7    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1615.3  | 6.7       | B3/2500                 |      |         |
| BM (30°-60°)   | 2518.4  | 10.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 326.8   | 1.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 16.5    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  | 6197.2  |
| 2.5°  | 5826.5  | 5882.6  | 5891.2  | 5960.1  | 5955.8  | 6072.2  | 6106.7  | 6111.0  | 6188.5  | 6149.7  | 6248.9  |
| 5°    | 5662.8  | 5632.6  | 5619.7  | 5740.3  | 5774.8  | 5878.2  | 5964.4  | 6016.2  | 6175.6  | 6231.6  | 6335.1  |
| 7.5°  | 5516.2  | 5516.2  | 5524.9  | 5632.6  | 5619.7  | 5753.3  | 5843.8  | 6003.2  | 6235.9  | 6283.3  | 6408.3  |
| 10°   | 5374.0  | 5322.3  | 5387.0  | 5499.0  | 5593.8  | 5654.1  | 5843.8  | 5994.6  | 6266.1  | 6404.0  | 6576.4  |
| 12.5° | 5300.8  | 5326.6  | 5335.2  | 5417.1  | 5520.6  | 5701.6  | 5805.0  | 6054.9  | 6481.6  | 6563.5  | 6748.8  |
| 15°   | 5761.9  | 5710.2  | 5585.2  | 5511.9  | 5598.1  | 5684.3  | 5942.9  | 6197.2  | 6593.6  | 6710.0  | 6916.8  |
| 17.5° | 6296.3  | 6253.2  | 6149.7  | 5951.5  | 5757.6  | 5917.0  | 6119.6  | 6352.3  | 6714.3  | 6886.7  | 7192.7  |
| 20°   | 6994.4  | 6925.5  | 6822.0  | 6434.2  | 6266.1  | 6093.7  | 6309.2  | 6585.0  | 6912.5  | 7067.7  | 7382.3  |
| 22.5° | 7826.2  | 7826.2  | 7593.5  | 7123.7  | 6774.6  | 6610.9  | 6701.4  | 6860.8  | 7132.3  | 7343.5  | 7653.8  |
| 25°   | 8692.4  | 8666.5  | 8455.4  | 7968.4  | 7378.0  | 7184.0  | 7287.5  | 7399.5  | 7472.8  | 7589.1  | 7796.0  |
| 27.5° | 9683.6  | 9532.8  | 9265.6  | 8726.9  | 8205.4  | 7830.5  | 7942.5  | 7843.4  | 7752.9  | 7813.2  | 8110.6  |
| 30°   | 10355.9 | 10450.7 | 10110.2 | 9593.1  | 9101.8  | 8683.8  | 8705.3  | 8619.1  | 8205.4  | 8291.6  | 8468.3  |
| 32.5° | 11054.0 | 11114.4 | 10924.7 | 10640.3 | 10149.0 | 9662.0  | 9485.3  | 9412.1  | 9101.8  | 9140.6  | 8968.2  |
| 35°   | 11635.8 | 11752.2 | 11584.1 | 11459.1 | 11316.9 | 10924.7 | 10437.8 | 10674.8 | 10174.9 | 10080.1 | 9631.9  |
| 37.5° | 12170.2 | 12135.7 | 12334.0 | 12204.7 | 12174.5 | 11898.7 | 11364.3 | 11411.7 | 11075.6 | 11054.0 | 10536.9 |
| 40°   | 12648.6 | 12657.2 | 12928.7 | 12989.0 | 12868.4 | 12377.1 | 11601.3 | 11976.3 | 12247.8 | 12273.6 | 11610.0 |
| 42.5° | 13045.0 | 13161.4 | 13394.1 | 13881.1 | 13700.1 | 12881.3 | 11847.0 | 12256.4 | 13264.8 | 13424.3 | 12627.0 |
| 45°   | 13389.8 | 13626.8 | 13915.6 | 14350.8 | 14247.4 | 13596.7 | 12458.9 | 12833.9 | 14350.8 | 14768.9 | 13583.7 |
| 47.5° | 13411.4 | 13721.7 | 14036.2 | 14682.7 | 14812.0 | 13980.2 | 13092.5 | 13747.5 | 15212.8 | 15665.3 | 14281.9 |
| 50°   | 13325.2 | 13488.9 | 14118.1 | 14820.6 | 15113.6 | 14605.1 | 13980.2 | 14514.6 | 16048.8 | 16333.2 | 14635.3 |
| 52.5° | 12303.8 | 12428.8 | 13691.5 | 14949.9 | 15656.6 | 15311.9 | 15156.7 | 15583.4 | 16902.1 | 17113.3 | 14967.1 |
| 55°   | 10256.8 | 10235.2 | 11972.0 | 14299.1 | 15906.6 | 16359.1 | 16264.3 | 16415.1 | 17889.0 | 18078.6 | 15049.0 |
| 57.5° | 7016.0  | 7408.1  | 8907.9  | 11907.3 | 14376.7 | 16113.5 | 16212.6 | 15962.6 | 16738.3 | 16811.6 | 13118.3 |
| 60°   | 3783.8  | 3947.6  | 5154.2  | 7946.8  | 10946.3 | 13131.2 | 13389.8 | 12937.3 | 12877.0 | 12670.1 | 9364.7  |
| 62.5° | 1504.0  | 1585.9  | 2271.1  | 3934.6  | 5964.4  | 7981.3  | 8537.2  | 8351.9  | 7955.5  | 7412.4  | 4848.3  |
| 65°   | 715.4   | 767.1   | 1129.1  | 1840.2  | 2646.1  | 3327.0  | 3882.9  | 4055.3  | 2990.8  | 2693.5  | 1598.8  |
| 67.5° | 487.0   | 525.8   | 823.1   | 1051.5  | 943.8   | 986.9   | 1284.2  | 1193.7  | 702.5   | 599.0   | 443.9   |
| 70°   | 370.6   | 396.5   | 659.4   | 715.4   | 422.3   | 297.4   | 331.8   | 310.3   | 288.7   | 293.1   | 288.7   |
| 72.5° | 262.9   | 284.4   | 482.7   | 422.3   | 185.3   | 137.9   | 176.7   | 211.2   | 211.2   | 211.2   | 206.9   |
| 75°   | 159.5   | 181.0   | 280.1   | 163.8   | 73.3    | 73.3    | 112.0   | 142.2   | 150.8   | 155.1   | 146.5   |
| 77.5° | 81.9    | 103.4   | 94.8    | 47.4    | 47.4    | 56.0    | 81.9    | 99.1    | 107.7   | 107.7   | 103.4   |
| 80°   | 17.2    | 17.2    | 17.2    | 25.9    | 47.4    | 60.3    | 81.9    | 90.5    | 103.4   | 103.4   | 94.8    |
| 82.5° | 0.0     | 4.3     | 12.9    | 25.9    | 43.1    | 56.0    | 77.6    | 90.5    | 103.4   | 107.7   | 99.1    |
| 85°   | 0.0     | 4.3     | 8.6     | 17.2    | 30.2    | 34.5    | 30.2    | 25.9    | 25.9    | 25.9    | 25.9    |
| 87.5° | 0.0     | 0.0     | 4.3     | 4.3     | 4.3     | 8.6     | 8.6     | 8.6     | 8.6     | 8.6     | 8.6     |
| 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: P532015

CATALOG NUMBER: GLAN-SA7B-750-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6197.2  | 6197.2 | 6197.2 | 6197.2 | 6197.2 | 6197.2 | 6197.2 | 6197.2 | 6197.2 | 6197.2 | 6197.2 |
| 2.5°  | 6257.5  | 6270.4 | 6248.9 | 6244.6 | 6227.3 | 6279.0 | 6154.1 | 6123.9 | 6201.5 | 6128.2 | 6145.4 |
| 5°    | 6339.4  | 6369.5 | 6330.7 | 6266.1 | 6171.3 | 6024.8 | 5899.8 | 5736.0 | 5658.5 | 5602.4 | 5593.8 |
| 7.5°  | 6399.7  | 6421.2 | 6382.5 | 6175.6 | 5891.2 | 5520.6 | 5244.7 | 5042.2 | 4882.7 | 4835.3 | 4757.8 |
| 10°   | 6645.3  | 6649.7 | 6455.7 | 5998.9 | 5443.0 | 4956.0 | 4533.7 | 4223.4 | 4063.9 | 3964.8 | 3921.7 |
| 12.5° | 6809.1  | 6800.5 | 6408.3 | 5649.8 | 4908.6 | 4262.2 | 3779.5 | 3404.6 | 3258.0 | 3210.6 | 3180.5 |
| 15°   | 7016.0  | 6968.6 | 6296.3 | 5292.1 | 4219.1 | 3520.9 | 3085.6 | 2827.1 | 2814.1 | 2784.0 | 2814.1 |
| 17.5° | 7179.7  | 7046.1 | 6132.5 | 4641.4 | 3559.7 | 2900.3 | 2615.9 | 2633.1 | 2667.6 | 2697.8 | 2702.1 |
| 20°   | 7446.9  | 7171.1 | 5757.6 | 4072.5 | 2947.7 | 2486.6 | 2482.3 | 2559.9 | 2646.1 | 2680.5 | 2715.0 |
| 22.5° | 7649.5  | 7222.8 | 5356.8 | 3464.9 | 2447.8 | 2318.5 | 2391.8 | 2508.2 | 2572.8 | 2607.3 | 2659.0 |
| 25°   | 7722.7  | 7080.6 | 4822.4 | 2857.2 | 2206.5 | 2241.0 | 2353.0 | 2430.6 | 2512.5 | 2551.3 | 2529.7 |
| 27.5° | 7796.0  | 7007.4 | 4184.6 | 2353.0 | 2077.2 | 2189.3 | 2284.1 | 2361.6 | 2387.5 | 2439.2 | 2473.7 |
| 30°   | 7972.7  | 6753.1 | 3611.4 | 2034.1 | 2012.6 | 2154.8 | 2223.7 | 2249.6 | 2318.5 | 2348.7 | 2348.7 |
| 32.5° | 8114.9  | 6654.0 | 3003.8 | 1883.3 | 2003.9 | 2172.0 | 2180.6 | 2180.6 | 2189.3 | 2167.7 | 2159.1 |
| 35°   | 8408.0  | 6313.5 | 2460.8 | 1792.8 | 1999.6 | 2176.3 | 2197.9 | 2124.6 | 1926.4 | 1848.8 | 1827.3 |
| 37.5° | 8770.0  | 6093.7 | 2060.0 | 1771.2 | 2029.8 | 2228.0 | 2262.5 | 1986.7 | 1728.1 | 1603.2 | 1581.6 |
| 40°   | 9209.5  | 5938.6 | 1797.1 | 1762.6 | 2098.8 | 2348.7 | 2245.3 | 1879.0 | 1542.8 | 1361.8 | 1353.2 |
| 42.5° | 9722.4  | 5796.4 | 1620.4 | 1758.3 | 2184.9 | 2473.7 | 2228.0 | 1788.5 | 1353.2 | 1232.5 | 1249.8 |
| 45°   | 10131.8 | 5718.8 | 1499.7 | 1728.1 | 2215.1 | 2547.0 | 2241.0 | 1629.0 | 1275.6 | 1198.1 | 1206.7 |
| 47.5° | 10450.7 | 5555.0 | 1400.6 | 1676.4 | 2210.8 | 2572.8 | 2124.6 | 1564.4 | 1236.8 | 1258.4 | 1279.9 |
| 50°   | 10459.3 | 5335.2 | 1275.6 | 1564.4 | 2146.2 | 2525.4 | 1991.0 | 1504.0 | 1228.2 | 1318.7 | 1361.8 |
| 52.5° | 10343.0 | 5025.0 | 1142.0 | 1404.9 | 1995.3 | 2361.6 | 1870.4 | 1478.2 | 1189.4 | 1180.8 | 1232.5 |
| 55°   | 9929.2  | 4443.2 | 917.9  | 1137.7 | 1685.0 | 1947.9 | 1762.6 | 1430.8 | 1073.1 | 974.0  | 982.6  |
| 57.5° | 8024.4  | 3184.8 | 676.6  | 814.5  | 1193.7 | 1426.5 | 1590.2 | 1409.2 | 965.3  | 827.4  | 831.7  |
| 60°   | 4968.9  | 1805.7 | 495.6  | 555.9  | 736.9  | 866.2  | 1288.6 | 1310.1 | 861.9  | 698.1  | 689.5  |
| 62.5° | 2551.3  | 892.1  | 383.6  | 392.2  | 452.5  | 508.5  | 883.5  | 1098.9 | 780.0  | 663.7  | 663.7  |
| 65°   | 853.3   | 439.6  | 336.1  | 301.7  | 301.7  | 314.6  | 534.4  | 762.8  | 659.4  | 555.9  | 555.9  |
| 67.5° | 366.3   | 327.5  | 293.1  | 262.9  | 241.3  | 228.4  | 301.7  | 443.9  | 491.3  | 422.3  | 405.1  |
| 70°   | 284.4   | 275.8  | 254.3  | 219.8  | 189.6  | 172.4  | 176.7  | 228.4  | 280.1  | 271.5  | 262.9  |
| 72.5° | 211.2   | 211.2  | 202.5  | 172.4  | 146.5  | 125.0  | 116.4  | 120.7  | 133.6  | 137.9  | 142.2  |
| 75°   | 146.5   | 150.8  | 150.8  | 133.6  | 107.7  | 90.5   | 77.6   | 64.6   | 51.7   | 43.1   | 38.8   |
| 77.5° | 99.1    | 103.4  | 112.0  | 99.1   | 81.9   | 60.3   | 47.4   | 34.5   | 21.5   | 8.6    | 8.6    |
| 80°   | 86.2    | 99.1   | 107.7  | 99.1   | 86.2   | 64.6   | 47.4   | 25.9   | 12.9   | 0.0    | 0.0    |
| 82.5° | 90.5    | 99.1   | 112.0  | 94.8   | 81.9   | 60.3   | 47.4   | 30.2   | 12.9   | 4.3    | 0.0    |
| 85°   | 21.5    | 21.5   | 25.9   | 30.2   | 38.8   | 43.1   | 34.5   | 21.5   | 12.9   | 4.3    | 0.0    |
| 87.5° | 8.6     | 8.6    | 8.6    | 8.6    | 8.6    | 4.3    | 4.3    | 4.3    | 4.3    | 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)