

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: P532244

Luminaire Tested: **GLAN-SA7C-750-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7C-750-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41074 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

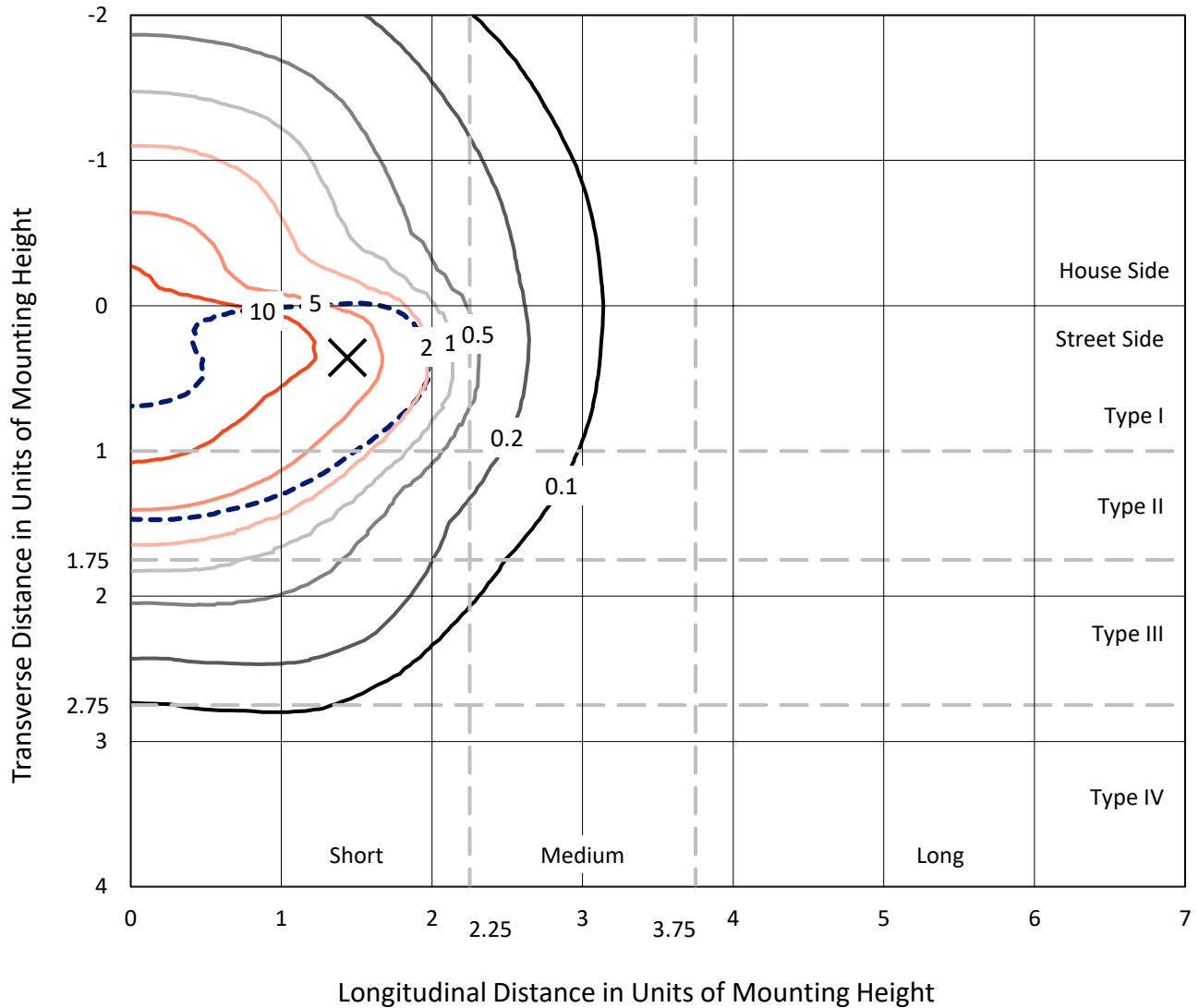
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

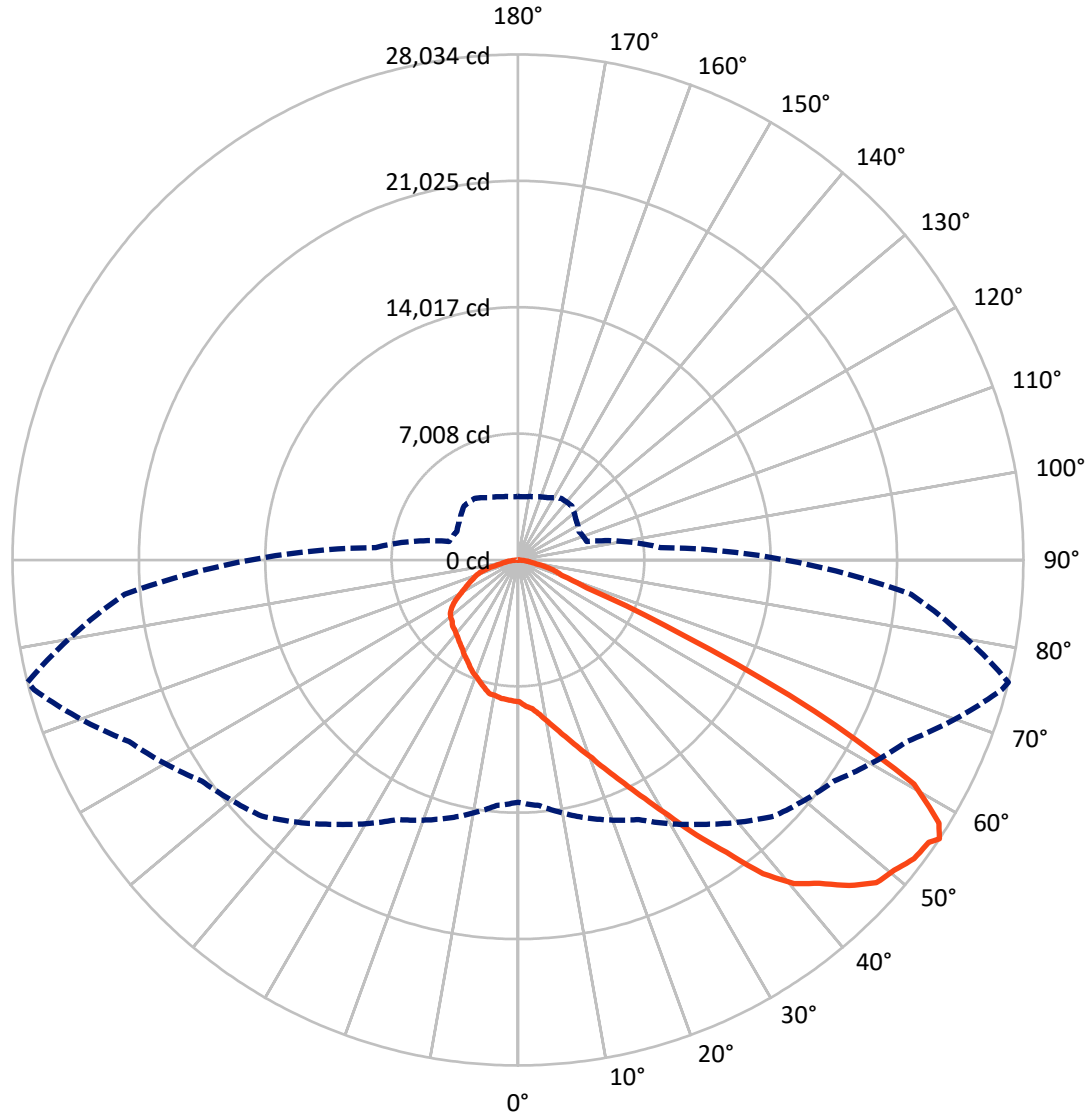
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11043.6  | 0.0    | 11043.6 |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 30030.4  | 0.0    | 30030.4 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 41074.0  | 0.0    | 41074.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 779.4   | 1.9       |
| 10°-20°   | 2448.2  | 6.0       |
| 20°-30°   | 4281.7  | 10.4      |
| 30°-40°   | 6703.9  | 16.3      |
| 40°-50°   | 9752.3  | 23.7      |
| 50°-60°   | 10718.3 | 26.1      |
| 60°-70°   | 4784.2  | 11.6      |
| 70°-80°   | 1381.9  | 3.4       |
| 80°-90°   | 224.1   | 0.5       |
| 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°    | 41074.0 | 100.0     |
| 0°-180°   | 41074.0 | 100.0     |

**Coefficient of Utilization**



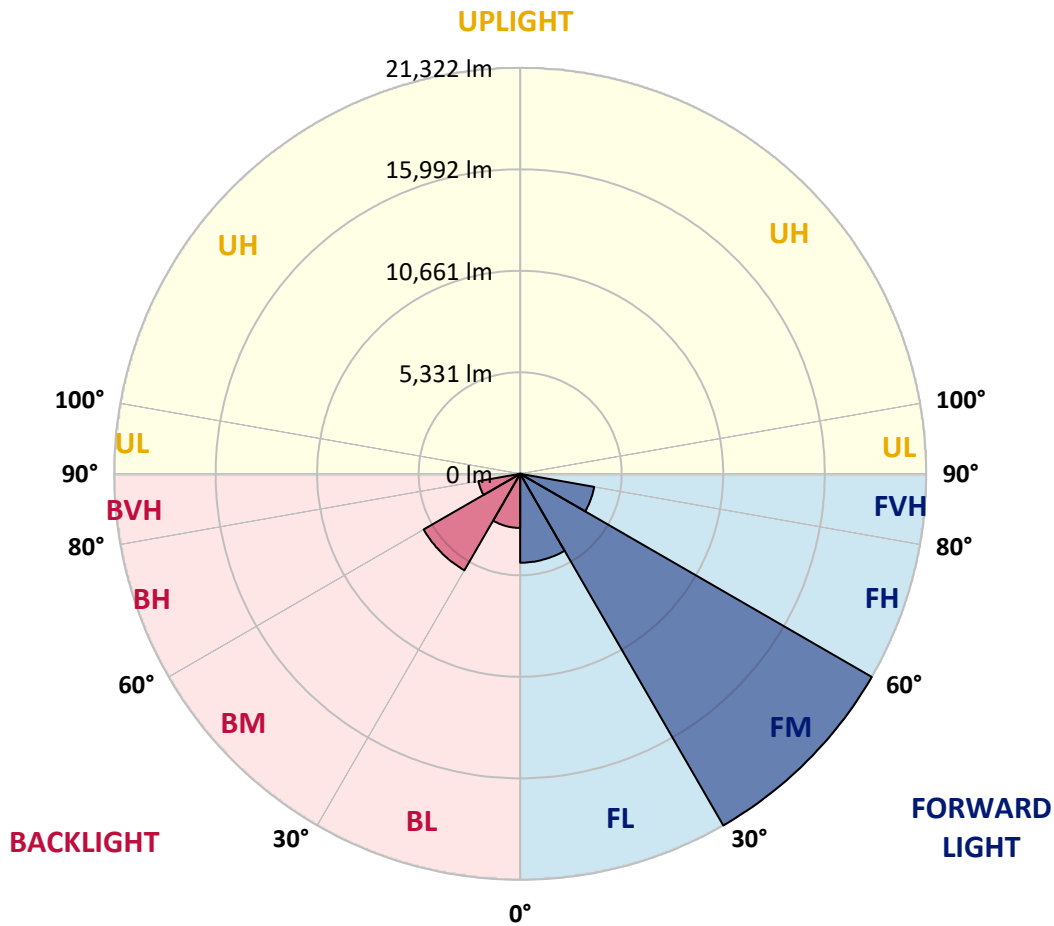
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4667.6  | 11.4      |                         |      |         |
| FM (30°-60°)   | 21322.3 | 51.9      |                         |      |         |
| FH (60°-80°)   | 3944.1  | 9.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 96.5    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2841.7  | 6.9       | B4/5000                 |      |         |
| BM (30°-60°)   | 5852.2  | 14.2      | B4/8500                 |      |         |
| BH (60°-80°)   | 2222.0  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 127.7   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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CATALOG NUMBER: GLAN-SA7C-750-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  | 7859.0  |
| 2.5°  | 8657.7  | 8519.2  | 8508.6  | 8471.3  | 8492.6  | 8396.8  | 8295.6  | 8162.5  | 8024.0  | 8109.2  | 7906.9  |
| 5°    | 9264.7  | 9078.3  | 9152.8  | 9025.1  | 9041.0  | 8913.2  | 8705.6  | 8551.2  | 8380.8  | 8279.6  | 8135.9  |
| 7.5°  | 9477.6  | 9493.6  | 9546.9  | 9525.6  | 9419.1  | 9419.1  | 9280.6  | 9009.1  | 8710.9  | 8652.3  | 8412.7  |
| 10°   | 9765.2  | 9770.5  | 9711.9  | 9727.9  | 9877.0  | 9807.8  | 9685.3  | 9568.2  | 9184.8  | 9115.6  | 8689.6  |
| 12.5° | 9866.3  | 9770.5  | 9866.3  | 9951.5  | 10127.2 | 10223.1 | 10196.4 | 10111.3 | 9701.3  | 9653.3  | 9030.4  |
| 15°   | 9882.3  | 9823.7  | 9903.6  | 10095.3 | 10249.7 | 10654.4 | 10856.7 | 10798.1 | 10255.0 | 10260.3 | 9413.7  |
| 17.5° | 9807.8  | 9887.6  | 9919.6  | 10084.6 | 10441.4 | 10819.4 | 11405.1 | 11485.0 | 11037.7 | 10968.5 | 9898.3  |
| 20°   | 9908.9  | 9850.4  | 9892.9  | 10042.0 | 10515.9 | 11106.9 | 11873.7 | 12400.8 | 11772.5 | 11724.6 | 10398.8 |
| 22.5° | 10297.6 | 10217.7 | 10207.1 | 10302.9 | 10643.7 | 11256.0 | 12368.8 | 13316.6 | 12667.0 | 12693.6 | 11021.7 |
| 25°   | 10601.1 | 10643.7 | 10606.4 | 10601.1 | 10814.1 | 11479.7 | 13023.8 | 14408.1 | 13881.0 | 13726.6 | 11756.5 |
| 27.5° | 11122.9 | 11224.1 | 11149.5 | 11250.7 | 11202.8 | 11815.1 | 13492.3 | 15616.8 | 15190.8 | 14983.2 | 12422.1 |
| 30°   | 11847.0 | 11900.3 | 11831.1 | 11831.1 | 11687.3 | 12283.7 | 13918.3 | 16878.7 | 16703.0 | 16420.8 | 13204.8 |
| 32.5° | 12800.1 | 12880.0 | 12741.6 | 12661.7 | 12640.4 | 12981.2 | 14685.0 | 18124.6 | 18422.8 | 18183.2 | 14243.1 |
| 35°   | 14062.0 | 14014.1 | 13849.1 | 13774.5 | 13487.0 | 14051.4 | 15824.5 | 19556.9 | 20339.6 | 19913.7 | 15499.7 |
| 37.5° | 15174.9 | 15100.3 | 15089.7 | 14674.4 | 14743.6 | 15206.8 | 16793.5 | 20643.1 | 22197.9 | 22075.4 | 16825.5 |
| 40°   | 16213.1 | 16282.4 | 16394.2 | 16159.9 | 16053.4 | 16564.6 | 17922.3 | 21473.8 | 23640.8 | 23592.9 | 17847.8 |
| 42.5° | 17326.0 | 17262.1 | 17459.1 | 17262.1 | 17102.3 | 17826.5 | 19147.0 | 22048.8 | 24908.1 | 24514.1 | 18918.0 |
| 45°   | 18939.3 | 18737.0 | 18806.2 | 18822.2 | 18705.0 | 18971.2 | 19652.8 | 22464.1 | 25797.3 | 25754.7 | 19700.7 |
| 47.5° | 20286.4 | 20291.7 | 20174.6 | 20084.1 | 19727.3 | 19993.5 | 20217.2 | 22725.0 | 26819.6 | 26750.4 | 20004.2 |
| 50°   | 20786.9 | 20717.7 | 21058.5 | 21255.5 | 21276.8 | 20733.7 | 20659.1 | 22868.8 | 27357.4 | 27053.9 | 20307.7 |
| 52.5° | 18987.2 | 19051.1 | 19588.9 | 20760.3 | 21436.5 | 21495.1 | 21175.6 | 23167.0 | 27575.7 | 27511.8 | 20552.6 |
| 55°   | 15281.4 | 15590.2 | 16474.0 | 17826.5 | 19429.2 | 21191.6 | 21734.7 | 23475.8 | 27692.8 | 27639.6 | 21638.8 |
| 56°   | 13433.7 | 13673.4 | 14823.4 | 15883.0 | 17895.7 | 20089.4 | 21383.2 | 23805.9 | 27783.3 | 28033.6 | 21894.4 |
| 57.5° | 10814.1 | 11091.0 | 11916.3 | 13119.6 | 15494.3 | 17991.5 | 20414.2 | 23401.2 | 27431.9 | 27527.7 | 22080.8 |
| 60°   | 6762.1  | 6788.8  | 7779.1  | 8572.5  | 10244.4 | 12683.0 | 15579.5 | 20360.9 | 25387.3 | 25248.8 | 19833.8 |
| 62.5° | 4435.3  | 4440.6  | 5340.5  | 5990.1  | 6751.5  | 7310.6  | 9168.8  | 13503.0 | 18731.6 | 18486.7 | 14120.6 |
| 65°   | 3114.8  | 3184.1  | 3881.6  | 4749.5  | 5058.3  | 4765.4  | 4706.9  | 7118.9  | 10462.7 | 10111.3 | 7587.4  |
| 67.5° | 2278.9  | 2284.2  | 2901.9  | 3833.7  | 4280.9  | 3626.0  | 2944.5  | 3476.9  | 4142.5  | 4131.8  | 3514.2  |
| 70°   | 1506.8  | 1570.7  | 2044.6  | 2864.6  | 3375.7  | 2912.5  | 2406.7  | 2486.5  | 2635.6  | 2635.6  | 2614.3  |
| 72.5° | 878.5   | 937.1   | 1251.3  | 1815.7  | 1895.5  | 1821.0  | 1906.2  | 2129.8  | 2225.6  | 2220.3  | 2193.7  |
| 75°   | 500.5   | 527.1   | 596.3   | 756.1   | 942.4   | 1112.8  | 1400.3  | 1613.3  | 1709.2  | 1767.7  | 1698.5  |
| 77.5° | 292.8   | 308.8   | 351.4   | 431.3   | 489.9   | 601.7   | 761.4   | 910.5   | 1038.3  | 1022.3  | 1033.0  |
| 80°   | 154.4   | 154.4   | 197.0   | 255.6   | 340.8   | 426.0   | 505.8   | 591.0   | 660.2   | 676.2   | 692.2   |
| 82.5° | 90.5    | 95.8    | 127.8   | 186.4   | 244.9   | 303.5   | 388.7   | 447.3   | 511.2   | 516.5   | 527.1   |
| 85°   | 47.9    | 53.2    | 79.9    | 122.5   | 165.1   | 186.4   | 191.7   | 181.0   | 197.0   | 186.4   | 213.0   |
| 87.5° | 16.0    | 16.0    | 26.6    | 21.3    | 21.3    | 26.6    | 31.9    | 31.9    | 42.6    | 42.6    | 42.6    |
| 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: P532244

CATALOG NUMBER: GLAN-SA7C-750-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7859.0  | 7859.0 | 7859.0 | 7859.0 | 7859.0 | 7859.0 | 7859.0 | 7859.0 | 7859.0 | 7859.0 | 7859.0 |
| 2.5°  | 7901.6  | 7901.6 | 7811.1 | 7640.7 | 7614.1 | 7544.8 | 7480.9 | 7475.6 | 7427.7 | 7385.1 | 7363.8 |
| 5°    | 8050.7  | 7885.6 | 7752.5 | 7598.1 | 7417.0 | 7331.9 | 7236.0 | 7129.5 | 7086.9 | 7129.5 | 7124.2 |
| 7.5°  | 8221.0  | 8082.6 | 7683.3 | 7395.7 | 7188.1 | 7102.9 | 6996.4 | 6884.6 | 6895.2 | 6895.2 | 6820.7 |
| 10°   | 8386.1  | 8199.8 | 7560.8 | 7193.4 | 6889.9 | 6826.0 | 6767.5 | 6810.1 | 6863.3 | 6873.9 | 6826.0 |
| 12.5° | 8663.0  | 8242.3 | 7502.2 | 6991.1 | 6799.4 | 6661.0 | 6698.2 | 6815.4 | 6927.2 | 6895.2 | 6932.5 |
| 15°   | 8870.6  | 8279.6 | 7236.0 | 6783.4 | 6543.8 | 6607.7 | 6740.8 | 6820.7 | 7007.1 | 6985.8 | 7023.0 |
| 17.5° | 9073.0  | 8300.9 | 6975.1 | 6506.6 | 6405.4 | 6581.1 | 6682.3 | 6911.2 | 6969.8 | 7097.6 | 7145.5 |
| 20°   | 9488.3  | 8343.5 | 6708.9 | 6336.2 | 6304.2 | 6506.6 | 6682.3 | 6788.8 | 6916.5 | 7028.4 | 7028.4 |
| 22.5° | 9701.3  | 8322.2 | 6533.2 | 6112.5 | 6213.7 | 6341.5 | 6501.2 | 6682.3 | 6682.3 | 6788.8 | 6794.1 |
| 25°   | 9967.5  | 8237.0 | 6256.3 | 6006.1 | 6080.6 | 6203.1 | 6384.1 | 6320.2 | 6389.4 | 6389.4 | 6474.6 |
| 27.5° | 10271.0 | 8056.0 | 6016.7 | 5814.4 | 5963.5 | 6096.6 | 6123.2 | 6080.6 | 6000.7 | 5990.1 | 5958.1 |
| 30°   | 10515.9 | 7832.4 | 5841.0 | 5750.5 | 5872.9 | 5947.5 | 5862.3 | 5771.8 | 5633.3 | 5622.7 | 5548.1 |
| 32.5° | 10851.4 | 7555.5 | 5622.7 | 5590.7 | 5729.2 | 5734.5 | 5707.9 | 5569.4 | 5367.1 | 5281.9 | 5196.7 |
| 35°   | 11415.8 | 7395.7 | 5457.6 | 5505.5 | 5548.1 | 5532.2 | 5484.2 | 5335.2 | 5132.8 | 5095.6 | 5063.6 |
| 37.5° | 11831.1 | 7278.6 | 5287.2 | 5345.8 | 5383.1 | 5404.4 | 5260.6 | 5095.6 | 5100.9 | 5026.3 | 5005.0 |
| 40°   | 12299.6 | 7204.1 | 5148.8 | 5175.4 | 5180.8 | 5250.0 | 5074.3 | 4994.4 | 5031.7 | 4983.7 | 5015.7 |
| 42.5° | 12901.3 | 7225.4 | 5005.0 | 4983.7 | 5084.9 | 5058.3 | 4973.1 | 4866.6 | 4887.9 | 4744.1 | 4765.4 |
| 45°   | 13220.8 | 7369.1 | 4919.9 | 4824.0 | 4935.8 | 4930.5 | 4818.7 | 4717.5 | 4589.7 | 4312.9 | 4323.5 |
| 47.5° | 13433.7 | 7406.4 | 4717.5 | 4653.6 | 4770.8 | 4840.0 | 4712.2 | 4477.9 | 4296.9 | 4099.9 | 4052.0 |
| 50°   | 13652.1 | 7475.6 | 4621.7 | 4488.6 | 4536.5 | 4701.5 | 4541.8 | 4318.2 | 4142.5 | 3966.8 | 3993.4 |
| 52.5° | 13843.7 | 7608.7 | 4435.3 | 4238.3 | 4323.5 | 4504.5 | 4419.3 | 4147.8 | 3956.1 | 3812.4 | 3769.8 |
| 55°   | 14695.7 | 7906.9 | 4121.2 | 3865.6 | 4067.9 | 4296.9 | 4249.0 | 3918.8 | 3711.2 | 3636.6 | 3626.0 |
| 56°   | 14828.8 | 7917.6 | 3956.1 | 3737.8 | 3924.2 | 4227.7 | 4169.1 | 3817.7 | 3631.3 | 3514.2 | 3519.5 |
| 57.5° | 14850.1 | 7789.8 | 3721.8 | 3620.7 | 3780.4 | 4126.5 | 4052.0 | 3737.8 | 3482.2 | 3375.7 | 3343.8 |
| 60°   | 13066.4 | 6080.6 | 3429.0 | 3365.1 | 3551.5 | 3817.7 | 3791.1 | 3519.5 | 3232.0 | 3109.5 | 3168.1 |
| 62.5° | 8907.9  | 4456.6 | 3200.0 | 3189.4 | 3285.2 | 3546.1 | 3476.9 | 3232.0 | 2992.4 | 2912.5 | 2875.2 |
| 65°   | 5186.1  | 3381.1 | 2976.4 | 2933.8 | 3013.7 | 3152.1 | 3200.0 | 2944.5 | 2694.2 | 2641.0 | 2625.0 |
| 67.5° | 3061.6  | 2795.4 | 2688.9 | 2619.7 | 2593.0 | 2678.2 | 2715.5 | 2566.4 | 2316.2 | 2241.6 | 2305.5 |
| 70°   | 2561.1  | 2486.5 | 2491.9 | 2374.7 | 2310.8 | 2252.3 | 2220.3 | 2087.2 | 1879.6 | 1783.7 | 1757.1 |
| 72.5° | 2209.7  | 2177.7 | 2156.4 | 2049.9 | 1991.4 | 1858.3 | 1719.8 | 1586.7 | 1432.3 | 1352.4 | 1357.8 |
| 75°   | 1687.9  | 1677.2 | 1687.9 | 1634.6 | 1533.5 | 1427.0 | 1299.2 | 1128.8 | 1011.7 | 910.5  | 931.8  |
| 77.5° | 1006.3  | 1038.3 | 1054.3 | 1033.0 | 990.4  | 894.5  | 814.7  | 702.8  | 591.0  | 511.2  | 500.5  |
| 80°   | 692.2   | 718.8  | 745.4  | 718.8  | 676.2  | 607.0  | 521.8  | 436.6  | 356.7  | 314.1  | 303.5  |
| 82.5° | 527.1   | 553.7  | 569.7  | 543.1  | 489.9  | 415.3  | 356.7  | 298.2  | 234.3  | 191.7  | 181.0  |
| 85°   | 191.7   | 218.3  | 213.0  | 255.6  | 276.9  | 266.2  | 229.0  | 175.7  | 133.1  | 95.8   | 90.5   |
| 87.5° | 53.2    | 47.9   | 53.2   | 53.2   | 53.2   | 47.9   | 42.6   | 42.6   | 42.6   | 26.6   | 21.3   |
| 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)