

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: P653540

Luminaire Tested: **GLAN-SA8D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44528.4 lumens  
Efficiency: N/A  
Efficacy: 90.3 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

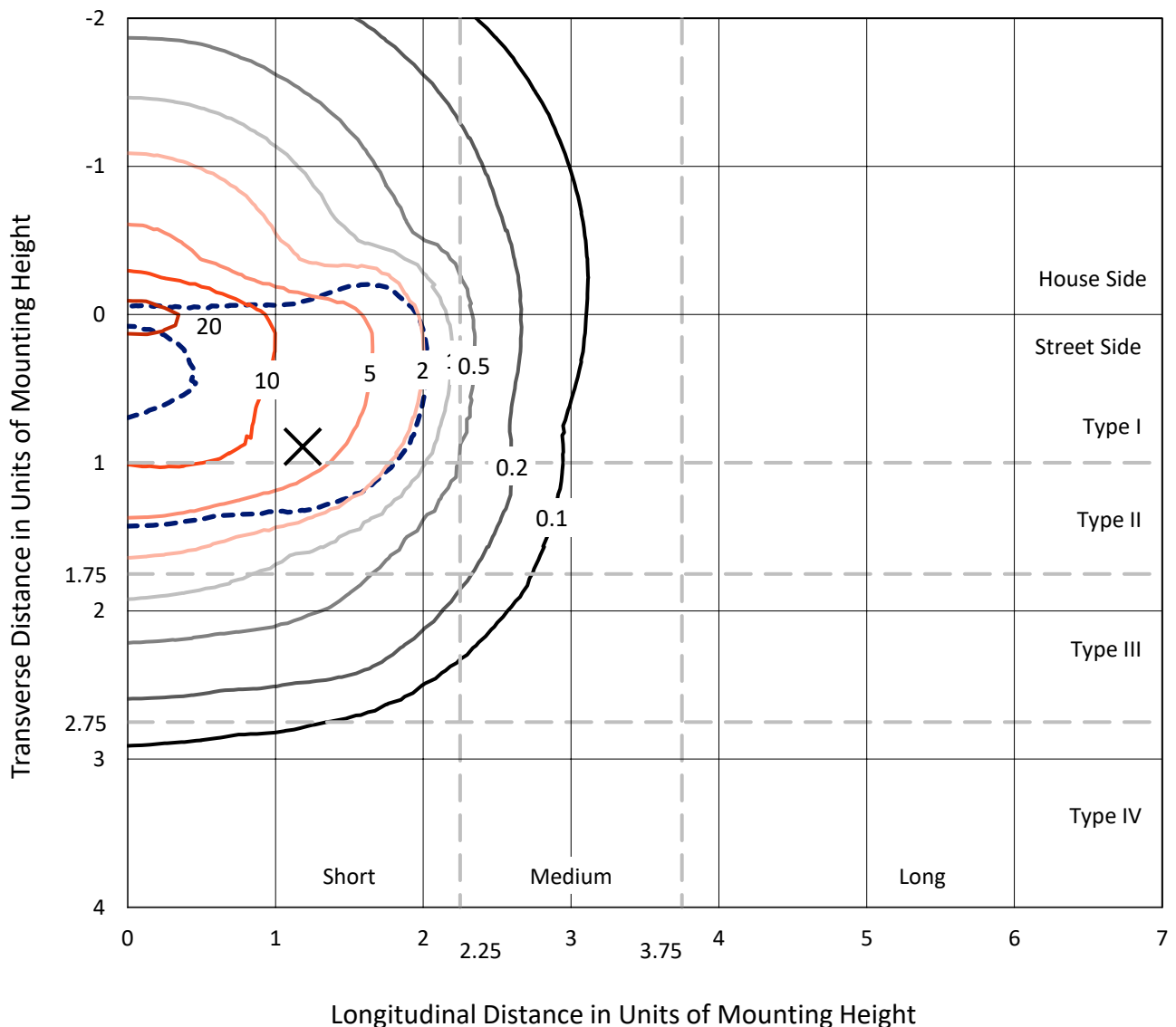
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P653540  
 CATALOG NUMBER: GLAN-SA8D-840-U-SL2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

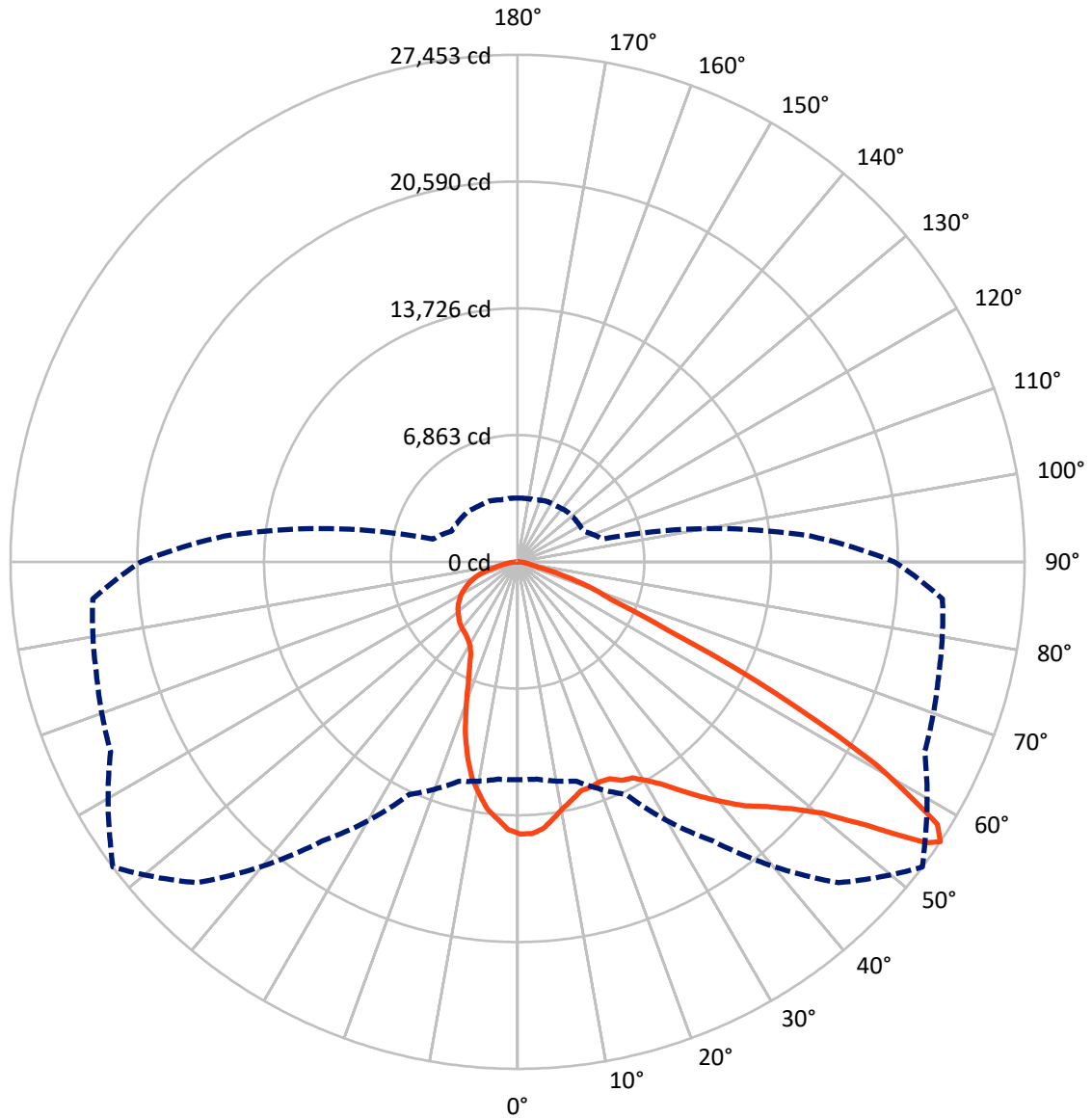
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P653540  
CATALOG NUMBER: GLAN-SA8D-840-U-SL2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P653540  
 CATALOG NUMBER: GLAN-SA8D-840-U-SL2-GRSWH

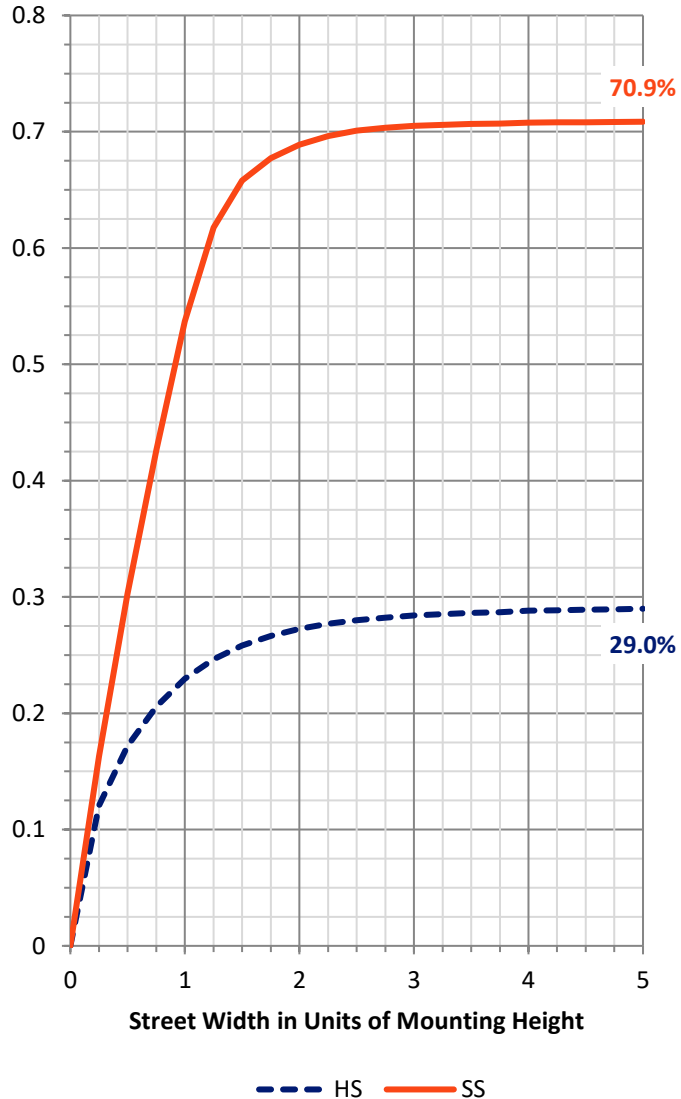
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12994.4  | 0.0    | 12994.4 |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 31534.1  | 0.0    | 31534.1 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 44528.4  | 0.0    | 44528.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1304.2  | 2.9       |
| 10°-20°   | 3257.3  | 7.3       |
| 20°-30°   | 4803.1  | 10.8      |
| 30°-40°   | 6862.8  | 15.4      |
| 40°-50°   | 9445.7  | 21.2      |
| 50°-60°   | 11162.2 | 25.1      |
| 60°-70°   | 5948.7  | 13.4      |
| 70°-80°   | 1509.2  | 3.4       |
| 80°-90°   | 235.3   | 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°    | 44528.4 | 100.0     |
| 0°-180°   | 44528.4 | 100.0     |

**Coefficient of Utilization**



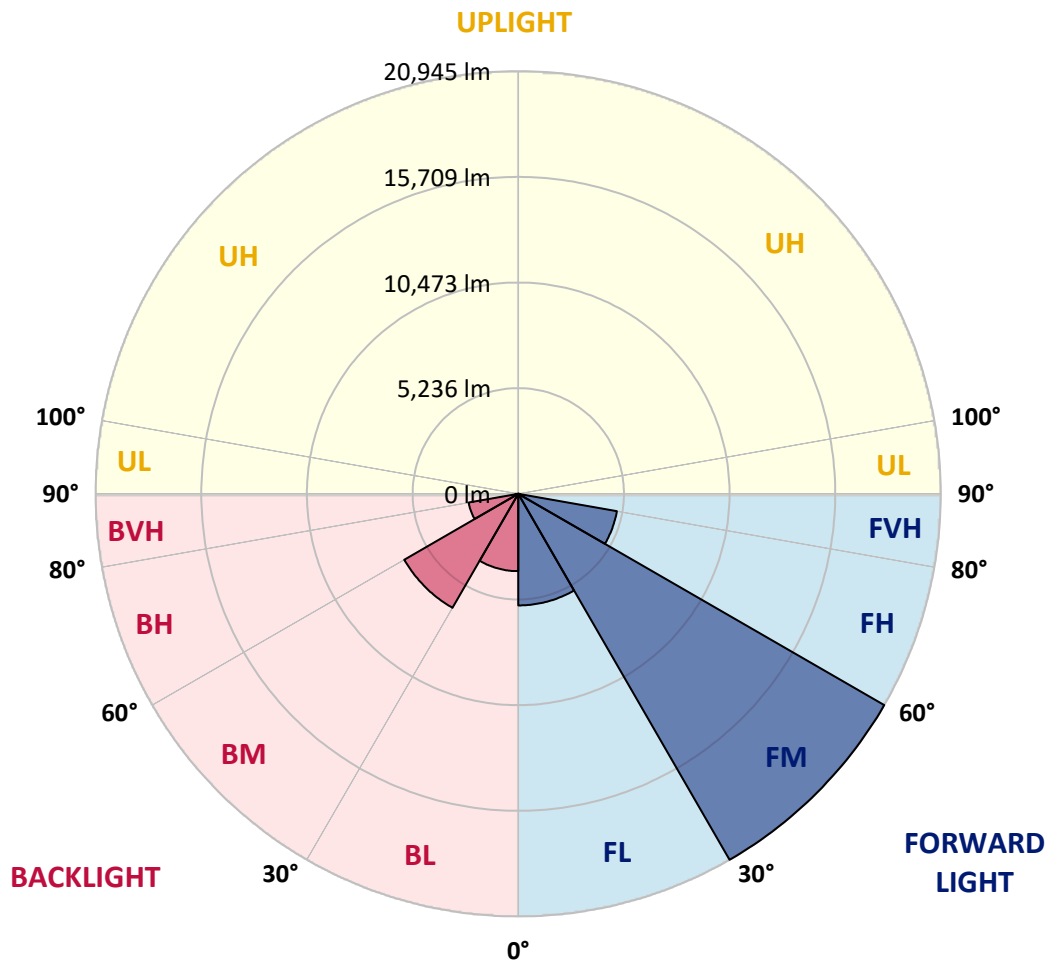
REPORT NUMBER: P653540  
 CATALOG NUMBER: GLAN-SA8D-840-U-SL2-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5532.0  | 12.4      |                         |      |         |
| FM (30°-60°)   | 20945.3 | 47.0      |                         |      |         |
| FH (60°-80°)   | 4962.2  | 11.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 94.6    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3832.6  | 8.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 6525.3  | 14.7      | B4/8500                 |      |         |
| BH (60°-80°)   | 2495.7  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 140.7   | 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





REPORT NUMBER: P653540

CATALOG NUMBER: GLAN-SA8D-840-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 |
| 2.5°  | 14549.0 | 14423.3 | 14497.6 | 14469.0 | 14703.2 | 14771.7 | 14737.4 | 14766.0 | 14897.4 | 14834.6 | 14703.2 |
| 5°    | 13595.0 | 13772.1 | 13806.4 | 13892.1 | 14029.1 | 14297.7 | 14509.0 | 14566.1 | 14628.9 | 14920.3 | 14891.7 |
| 7.5°  | 12726.8 | 12846.7 | 12783.9 | 13035.2 | 13332.3 | 13766.4 | 14023.4 | 14069.2 | 14646.1 | 14806.1 | 14926.0 |
| 10°   | 12178.4 | 12058.4 | 12344.0 | 12412.6 | 12749.6 | 13246.6 | 13555.1 | 13743.5 | 14269.1 | 14903.1 | 14977.4 |
| 12.5° | 11670.1 | 11630.0 | 11801.4 | 11995.6 | 12372.6 | 12886.7 | 13200.9 | 13275.2 | 14086.2 | 14754.6 | 15103.0 |
| 15°   | 11293.0 | 11247.3 | 11418.7 | 11561.5 | 12001.3 | 12458.3 | 12858.1 | 13069.5 | 13886.3 | 14668.9 | 14994.5 |
| 17.5° | 10996.0 | 10990.3 | 11087.4 | 11344.4 | 11795.7 | 12178.4 | 12823.9 | 12835.3 | 13783.6 | 14800.3 | 15085.9 |
| 20°   | 10978.8 | 10973.1 | 10990.3 | 11275.9 | 11687.1 | 12155.6 | 12715.3 | 12818.2 | 13783.6 | 14708.9 | 15091.7 |
| 22.5° | 11121.6 | 11030.2 | 11133.1 | 11315.8 | 11612.9 | 12195.5 | 12755.4 | 12983.9 | 14114.8 | 15160.2 | 15348.7 |
| 25°   | 11350.1 | 11373.0 | 11430.1 | 11492.9 | 11664.3 | 12286.9 | 13109.5 | 13298.0 | 14503.3 | 15548.6 | 15702.8 |
| 27.5° | 11767.1 | 11755.7 | 11778.5 | 11812.9 | 11961.4 | 12372.6 | 13252.3 | 13737.8 | 15314.4 | 16239.8 | 16085.6 |
| 30°   | 12378.3 | 12338.3 | 12429.7 | 12549.7 | 12412.6 | 12646.8 | 13726.4 | 14092.0 | 16068.4 | 16936.6 | 16514.0 |
| 32.5° | 12932.4 | 13080.9 | 13252.3 | 13303.7 | 13138.0 | 13183.8 | 14354.8 | 14726.1 | 16696.8 | 17793.5 | 17039.5 |
| 35°   | 13623.6 | 13743.5 | 13972.0 | 14132.0 | 14103.4 | 13966.3 | 15211.6 | 15702.8 | 17605.0 | 18421.9 | 17593.6 |
| 37.5° | 14297.7 | 14440.5 | 14817.4 | 15291.6 | 15028.8 | 14965.9 | 16125.5 | 16531.1 | 17884.9 | 18758.8 | 17999.2 |
| 40°   | 15383.0 | 15377.3 | 16028.5 | 16274.0 | 16508.2 | 16399.8 | 17073.7 | 17210.8 | 18033.4 | 18684.6 | 18010.5 |
| 42.5° | 16656.8 | 16576.8 | 17239.4 | 17622.1 | 17924.9 | 17936.3 | 18062.0 | 18016.2 | 18101.9 | 18307.6 | 17890.6 |
| 45°   | 17867.7 | 18039.1 | 18707.5 | 19392.9 | 19695.6 | 19729.9 | 18895.9 | 18810.2 | 18221.9 | 18199.1 | 17662.1 |
| 47.5° | 19347.2 | 19387.2 | 19935.6 | 20838.1 | 21540.7 | 21300.8 | 19975.5 | 19787.0 | 18747.4 | 18924.5 | 18044.8 |
| 50°   | 19432.9 | 19729.9 | 20221.2 | 21283.7 | 23442.9 | 23380.1 | 21375.0 | 21020.9 | 19592.9 | 19952.7 | 19113.0 |
| 52.5° | 17639.3 | 17570.8 | 18153.4 | 19889.9 | 23300.1 | 25447.8 | 23694.2 | 22848.8 | 21409.3 | 21135.2 | 20843.8 |
| 55°   | 13440.8 | 13600.7 | 14114.8 | 15868.5 | 20232.6 | 25476.4 | 26853.0 | 26161.8 | 23351.5 | 22883.1 | 22546.0 |
| 56°   | 11790.0 | 11812.9 | 12298.4 | 13897.8 | 18461.8 | 24568.1 | 27452.8 | 26893.0 | 24316.8 | 23602.8 | 23088.7 |
| 57.5° | 9773.6  | 9642.1  | 9893.5  | 10767.5 | 15582.9 | 22648.9 | 26795.9 | 27344.3 | 25447.8 | 24379.7 | 23665.7 |
| 60°   | 7694.3  | 7665.8  | 7562.9  | 7722.9  | 9847.9  | 17062.4 | 22306.1 | 23539.9 | 25333.6 | 23648.5 | 22666.0 |
| 62.5° | 6283.4  | 6140.6  | 6346.3  | 6574.8  | 6843.2  | 10584.7 | 15674.3 | 16399.8 | 20112.7 | 18878.9 | 17028.1 |
| 65°   | 4872.5  | 4804.0  | 5061.0  | 5803.6  | 5963.5  | 6723.3  | 8928.1  | 9488.0  | 11875.7 | 11664.3 | 10270.5 |
| 67.5° | 3353.1  | 3364.5  | 3587.3  | 4718.3  | 5529.4  | 5460.9  | 5466.6  | 5757.9  | 6197.7  | 4604.1  | 4010.0  |
| 70°   | 2125.0  | 2119.2  | 2239.2  | 3038.9  | 4449.8  | 4495.5  | 4267.0  | 4181.4  | 3964.3  | 2399.1  | 2541.9  |
| 72.5° | 1365.2  | 1325.2  | 1388.1  | 1679.4  | 2302.0  | 2661.8  | 2741.8  | 2793.3  | 2296.3  | 1885.0  | 2045.0  |
| 75°   | 771.1   | 731.2   | 708.3   | 782.6   | 908.3   | 1051.1  | 1153.9  | 1188.2  | 1331.0  | 1428.0  | 1513.7  |
| 77.5° | 234.2   | 211.3   | 257.0   | 342.7   | 451.3   | 605.5   | 736.9   | 759.8   | 896.8   | 1011.1  | 1096.7  |
| 80°   | 102.9   | 114.2   | 160.0   | 228.5   | 319.9   | 428.4   | 519.8   | 554.1   | 645.5   | 731.2   | 754.0   |
| 82.5° | 62.8    | 68.5    | 108.6   | 154.2   | 222.8   | 302.8   | 371.3   | 382.7   | 474.1   | 542.7   | 559.8   |
| 85°   | 22.9    | 28.6    | 57.1    | 91.4    | 142.8   | 194.2   | 194.2   | 211.3   | 194.2   | 194.2   | 211.3   |
| 87.5° | 0.0     | 0.0     | 5.7     | 11.4    | 11.4    | 17.2    | 22.9    | 22.9    | 28.6    | 34.3    | 39.9    |
| 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: P653540

CATALOG NUMBER: GLAN-SA8D-840-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 | 14731.8 |
| 2.5°  | 14771.7 | 14743.2 | 14697.5 | 14531.8 | 14514.7 | 14463.3 | 14177.7 | 14132.0 | 14177.7 | 14040.6 | 14052.0 |
| 5°    | 14743.2 | 14828.8 | 14486.1 | 14320.5 | 14012.0 | 13789.2 | 13532.2 | 13400.8 | 13166.6 | 13018.1 | 13183.8 |
| 7.5°  | 14868.9 | 14834.6 | 14406.2 | 14046.3 | 13583.6 | 13018.1 | 12566.8 | 12309.8 | 11898.5 | 11784.3 | 11870.0 |
| 10°   | 14823.1 | 14640.4 | 14137.7 | 13663.6 | 12789.6 | 12292.6 | 11561.5 | 10853.2 | 10464.7 | 10264.8 | 10236.2 |
| 12.5° | 14760.3 | 14708.9 | 13869.2 | 13052.4 | 12132.7 | 11087.4 | 10059.2 | 9390.9  | 8756.8  | 8482.6  | 8522.6  |
| 15°   | 14834.6 | 14400.4 | 13366.5 | 12332.7 | 11110.2 | 9739.3  | 8631.1  | 7768.6  | 7328.7  | 7151.7  | 7151.7  |
| 17.5° | 14800.3 | 14251.9 | 13126.7 | 11527.3 | 9979.2  | 8356.9  | 7140.3  | 6620.4  | 6437.7  | 6437.7  | 6489.1  |
| 20°   | 14817.4 | 14349.1 | 12641.1 | 10721.8 | 8642.5  | 7037.4  | 6152.0  | 5963.5  | 6043.5  | 6072.1  | 6100.6  |
| 22.5° | 14914.5 | 14029.1 | 12167.0 | 9836.4  | 7403.0  | 6020.6  | 5586.5  | 5592.2  | 5735.0  | 5889.3  | 5860.7  |
| 25°   | 15034.5 | 13903.5 | 11590.1 | 8956.7  | 6454.8  | 5523.7  | 5386.6  | 5369.4  | 5478.0  | 5558.0  | 5569.4  |
| 27.5° | 14931.7 | 13686.4 | 11001.7 | 7860.0  | 5677.9  | 5192.4  | 5163.8  | 5175.3  | 5209.5  | 5369.4  | 5318.1  |
| 30°   | 15268.7 | 13749.3 | 10264.8 | 6940.4  | 5249.5  | 5083.8  | 5049.6  | 5032.5  | 5083.8  | 5129.6  | 5089.6  |
| 32.5° | 15685.7 | 13526.5 | 9716.4  | 6054.9  | 5038.2  | 5003.9  | 4935.3  | 4912.4  | 4941.0  | 4895.4  | 4918.2  |
| 35°   | 15868.5 | 13486.5 | 9002.4  | 5420.9  | 4872.5  | 4843.9  | 4804.0  | 4798.2  | 4804.0  | 4764.0  | 4729.7  |
| 37.5° | 15971.3 | 13675.0 | 8185.6  | 5129.6  | 4769.6  | 4798.2  | 4706.8  | 4695.4  | 4592.6  | 4615.5  | 4632.6  |
| 40°   | 16148.4 | 13383.7 | 7523.0  | 4849.6  | 4706.8  | 4649.7  | 4569.7  | 4552.6  | 4484.0  | 4444.1  | 4484.0  |
| 42.5° | 15891.4 | 13298.0 | 6871.8  | 4729.7  | 4615.5  | 4552.6  | 4495.5  | 4398.4  | 4375.6  | 4341.2  | 4318.5  |
| 45°   | 15685.7 | 12806.7 | 6289.2  | 4581.2  | 4506.9  | 4472.7  | 4364.1  | 4261.3  | 4175.6  | 4209.9  | 4158.5  |
| 47.5° | 15839.9 | 12635.4 | 5712.2  | 4455.5  | 4358.4  | 4318.5  | 4209.9  | 4129.9  | 4044.2  | 4004.3  | 3992.8  |
| 50°   | 16456.9 | 12955.3 | 5226.6  | 4364.1  | 4232.8  | 4209.9  | 4067.1  | 3975.7  | 3895.7  | 3867.2  | 3878.6  |
| 52.5° | 17930.6 | 13829.2 | 4895.4  | 4175.6  | 4112.7  | 4010.0  | 3930.0  | 3815.8  | 3764.3  | 3673.0  | 3730.1  |
| 55°   | 19798.5 | 15251.5 | 4809.7  | 3998.5  | 3964.3  | 3872.9  | 3764.3  | 3678.6  | 3581.6  | 3507.3  | 3490.2  |
| 56°   | 20398.3 | 15931.3 | 4741.1  | 3930.0  | 3872.9  | 3821.4  | 3678.6  | 3627.2  | 3473.0  | 3455.9  | 3444.5  |
| 57.5° | 20883.8 | 16531.1 | 4752.6  | 3798.6  | 3741.5  | 3695.8  | 3610.1  | 3484.4  | 3381.7  | 3318.8  | 3347.3  |
| 60°   | 19787.0 | 15474.3 | 4535.5  | 3598.7  | 3587.3  | 3501.6  | 3381.7  | 3324.5  | 3198.8  | 3124.6  | 3107.4  |
| 62.5° | 14708.9 | 10504.8 | 3678.6  | 3341.6  | 3335.9  | 3244.5  | 3107.4  | 3044.6  | 3021.7  | 2918.9  | 2918.9  |
| 65°   | 8471.2  | 6586.1  | 3181.7  | 3130.3  | 3084.6  | 2993.2  | 2856.1  | 2804.7  | 2747.5  | 2713.3  | 2684.7  |
| 67.5° | 3615.8  | 3415.9  | 2890.3  | 2884.6  | 2833.2  | 2719.0  | 2582.0  | 2502.0  | 2427.7  | 2359.2  | 2393.4  |
| 70°   | 2621.9  | 2661.8  | 2610.5  | 2582.0  | 2519.0  | 2376.2  | 2256.3  | 2159.2  | 2045.0  | 1999.3  | 2033.5  |
| 72.5° | 2079.2  | 2164.9  | 2239.2  | 2244.9  | 2170.6  | 2004.9  | 1873.6  | 1742.2  | 1616.6  | 1553.7  | 1582.3  |
| 75°   | 1576.5  | 1633.7  | 1708.0  | 1725.1  | 1616.6  | 1502.3  | 1376.6  | 1239.5  | 1142.4  | 1068.2  | 1079.6  |
| 77.5° | 1136.7  | 1125.3  | 1193.9  | 1182.4  | 1131.0  | 1051.1  | 936.8   | 811.1   | 702.6   | 634.0   | 639.7   |
| 80°   | 776.8   | 794.0   | 834.0   | 828.3   | 765.4   | 714.0   | 628.3   | 525.5   | 445.6   | 388.5   | 377.0   |
| 82.5° | 542.7   | 571.2   | 605.5   | 576.9   | 525.5   | 474.1   | 411.2   | 337.0   | 274.2   | 228.5   | 217.1   |
| 85°   | 194.2   | 222.8   | 257.0   | 274.2   | 291.3   | 279.9   | 234.2   | 188.5   | 137.1   | 114.2   | 108.6   |
| 87.5° | 39.9    | 45.7    | 51.4    | 51.4    | 51.4    | 45.7    | 39.9    | 39.9    | 34.3    | 17.2    | 17.2    |
| 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)