

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: P530586

Luminaire Tested: **GLAN-SA5D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33819 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 309  
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

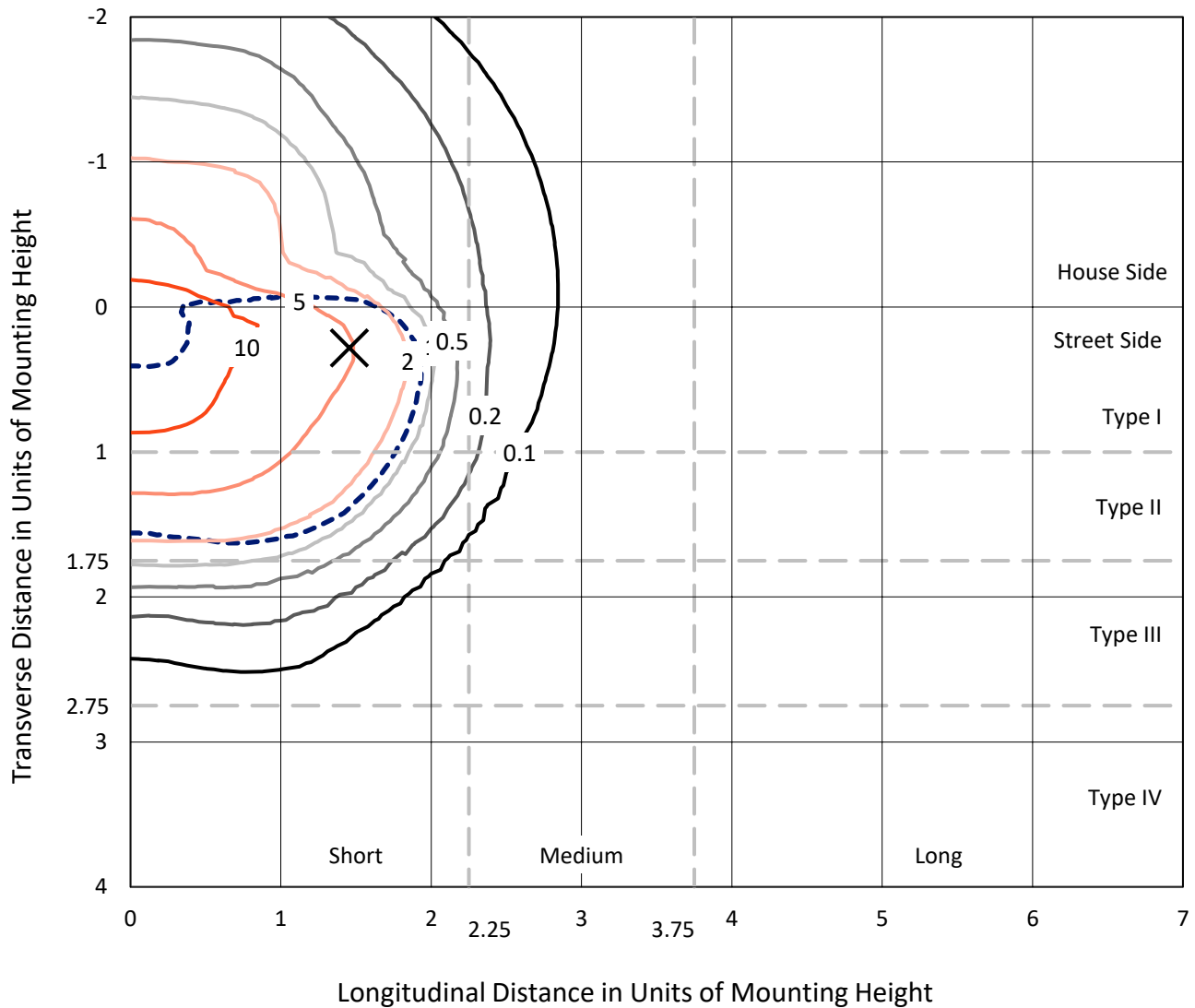


REPORT NUMBER: P530586

CATALOG NUMBER: GLAN-SA5D-740-U-T3R-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

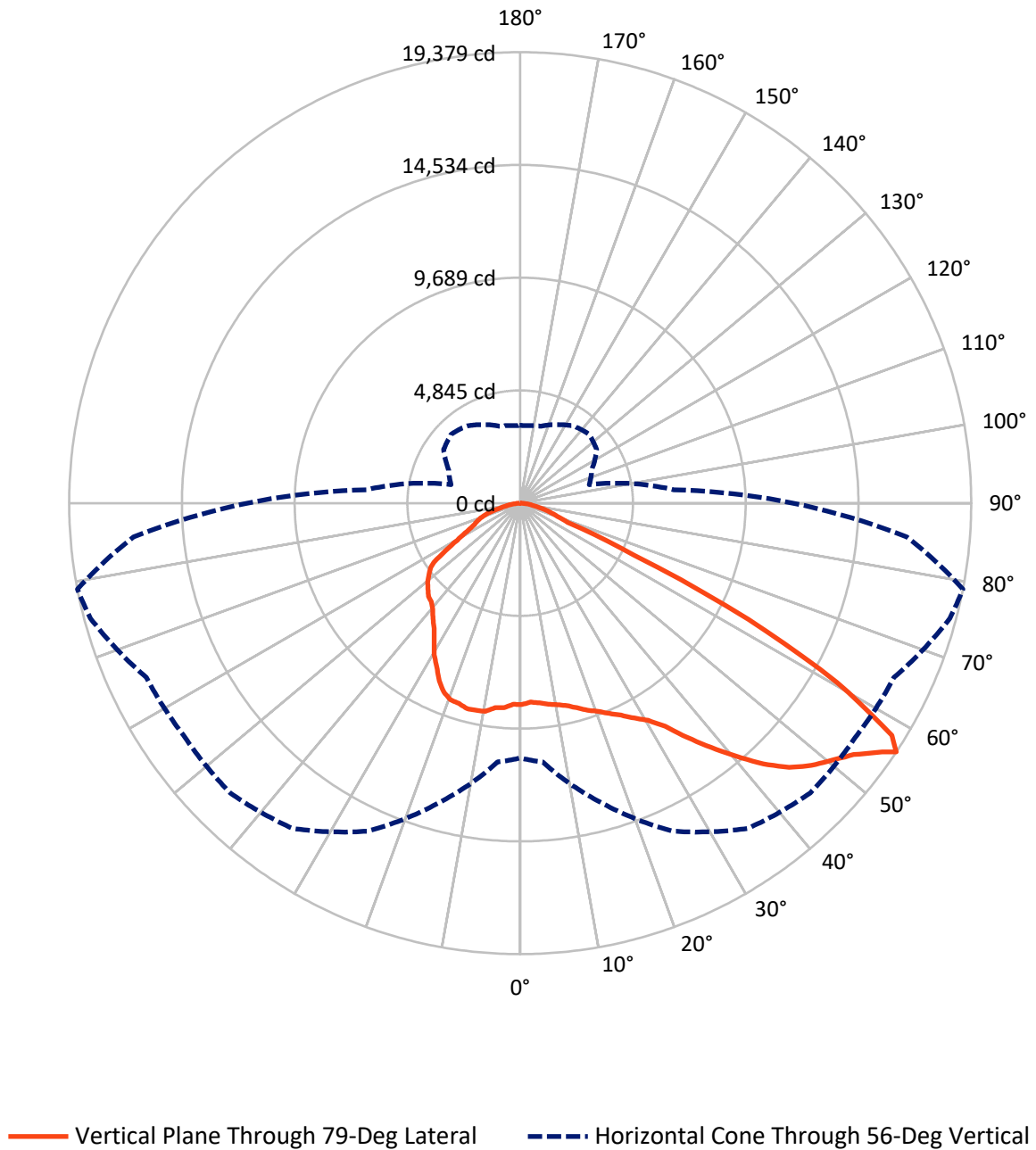
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
Type II - Short - N/A

REPORT NUMBER: P530586  
CATALOG NUMBER: GLAN-SA5D-740-U-T3R-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P530586

CATALOG NUMBER: GLAN-SA5D-740-U-T3R-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9987.5   | 0.0    | 9987.5  |
|                    | % Fixture | 29.5     | 0.0    | 29.5    |
| <b>Street Side</b> | Lumens    | 23831.5  | 0.0    | 23831.5 |
|                    | % Fixture | 70.5     | 0.0    | 70.5    |
| <b>Total</b>       | Lumens    | 33819.0  | 0.0    | 33819.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 786.7   | 2.3       |
| 10°-20°   | 2153.0  | 6.4       |
| 20°-30°   | 3683.4  | 10.9      |
| 30°-40°   | 5645.3  | 16.7      |
| 40°-50°   | 7629.6  | 22.6      |
| 50°-60°   | 8762.8  | 25.9      |
| 60°-70°   | 3994.4  | 11.8      |
| 70°-80°   | 984.8   | 2.9       |
| 80°-90°   | 179.0   | 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°    | 33819.0 | 100.0     |
| 0°-180°   | 33819.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P530586

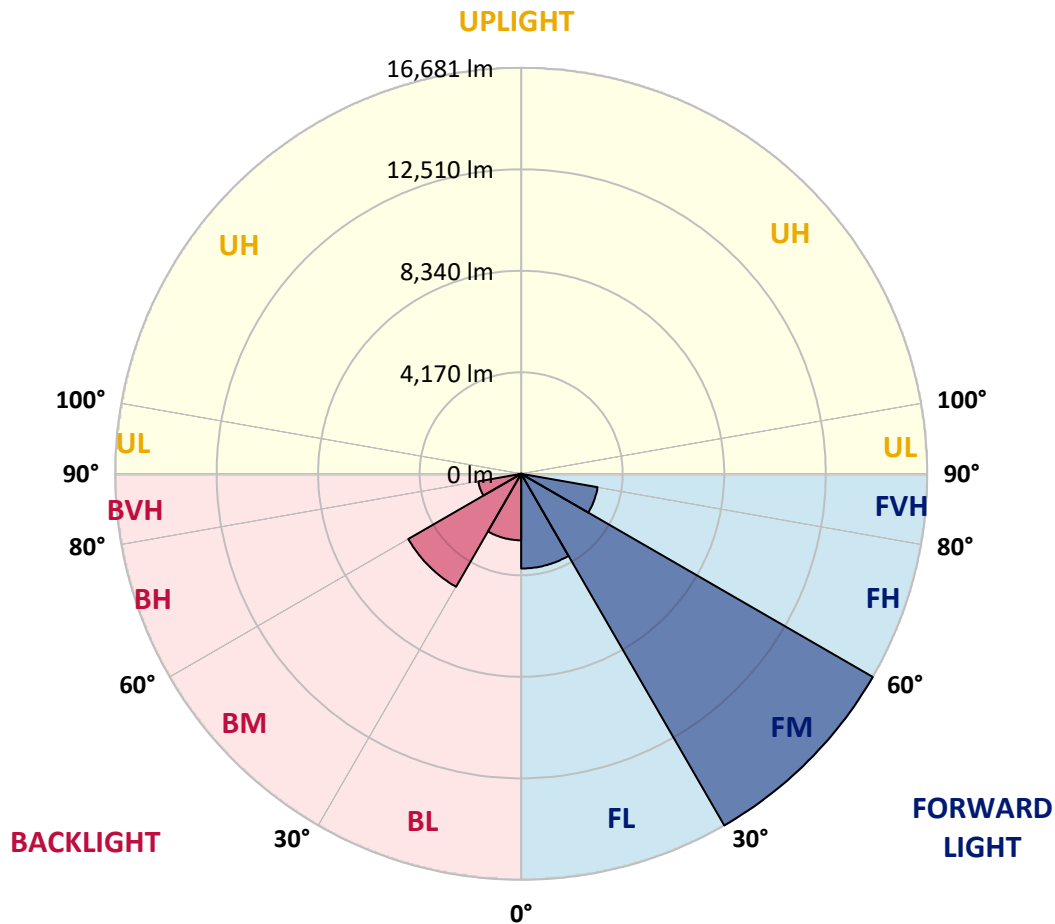
CATALOG NUMBER: GLAN-SA5D-740-U-T3R-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3891.2  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 16680.5 | 49.3      |                         |      |         |
| FH   | (60°-80°)   | 3188.4  | 9.4       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 71.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2732.0  | 8.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5357.2  | 15.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 1790.8  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 107.5   | 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: P530586

CATALOG NUMBER: GLAN-SA5D-740-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  | 8652.9  |
| 2.5°  | 8231.7  | 8210.6  | 8261.2  | 8299.1  | 8345.4  | 8404.4  | 8433.9  | 8450.7  | 8598.2  | 8560.3  | 8674.0  |
| 5°    | 8054.7  | 8000.0  | 8037.9  | 8067.4  | 8147.4  | 8219.0  | 8299.1  | 8425.5  | 8560.3  | 8619.2  | 8758.3  |
| 7.5°  | 7898.9  | 7869.4  | 7861.0  | 7882.0  | 7991.5  | 8084.2  | 8223.2  | 8408.6  | 8627.7  | 8724.6  | 8804.6  |
| 10°   | 7641.9  | 7599.8  | 7663.0  | 7802.0  | 7831.5  | 8025.2  | 8185.3  | 8450.7  | 8640.3  | 8808.8  | 9044.7  |
| 12.5° | 7528.1  | 7486.0  | 7498.7  | 7578.7  | 7785.1  | 7970.5  | 8160.1  | 8459.2  | 8859.4  | 8926.8  | 9242.7  |
| 15°   | 7709.3  | 7667.2  | 7679.8  | 7658.7  | 7856.7  | 7953.6  | 8252.7  | 8627.7  | 9011.0  | 9124.8  | 9461.8  |
| 17.5° | 8122.1  | 8126.4  | 8071.6  | 8025.2  | 7978.9  | 8185.3  | 8391.8  | 8728.8  | 9070.0  | 9356.5  | 9609.2  |
| 20°   | 8909.9  | 8770.9  | 8661.4  | 8400.2  | 8328.6  | 8417.0  | 8678.2  | 9002.6  | 9310.1  | 9546.0  | 9832.5  |
| 22.5° | 9516.6  | 9529.2  | 9373.3  | 8943.6  | 8787.8  | 8825.7  | 9048.9  | 9314.3  | 9651.4  | 9819.9  | 10148.5 |
| 25°   | 10397.0 | 10308.5 | 10140.0 | 9798.8  | 9449.1  | 9478.6  | 9642.9  | 9883.1  | 9975.7  | 10093.7 | 10451.8 |
| 27.5° | 11201.6 | 11226.9 | 10894.1 | 10573.9 | 10140.0 | 10055.8 | 10350.7 | 10392.8 | 10236.9 | 10460.2 | 10582.4 |
| 30°   | 12018.9 | 11997.8 | 11778.8 | 11403.9 | 10978.4 | 10995.2 | 11125.8 | 10919.4 | 10704.5 | 10826.7 | 10911.0 |
| 32.5° | 12865.7 | 12625.5 | 12617.1 | 12280.1 | 11955.7 | 11799.9 | 11639.8 | 11740.9 | 11408.1 | 11433.3 | 11353.3 |
| 35°   | 13543.9 | 13577.6 | 13383.8 | 13143.7 | 12983.6 | 12709.8 | 12271.7 | 12452.8 | 12389.6 | 12360.1 | 12014.7 |
| 37.5° | 14036.8 | 13906.2 | 14003.1 | 13923.1 | 13771.4 | 13430.2 | 12975.2 | 13147.9 | 13177.4 | 13320.6 | 12920.4 |
| 40°   | 14441.2 | 14386.5 | 14643.4 | 14685.6 | 14580.3 | 13843.0 | 13025.8 | 13539.7 | 13982.0 | 14293.8 | 13817.7 |
| 42.5° | 14635.0 | 14753.0 | 15022.6 | 15347.0 | 15111.1 | 14323.3 | 13286.9 | 13838.8 | 14824.6 | 15317.5 | 14668.7 |
| 45°   | 14896.2 | 14744.5 | 15144.8 | 15738.8 | 15743.0 | 14727.7 | 13539.7 | 14243.2 | 15481.8 | 16197.9 | 15250.1 |
| 47.5° | 14630.8 | 14706.6 | 15119.5 | 15873.6 | 16067.3 | 15153.2 | 14222.2 | 14816.2 | 16206.4 | 16842.5 | 15789.3 |
| 50°   | 14036.8 | 14188.5 | 14942.5 | 15726.1 | 16311.7 | 15603.9 | 15005.7 | 15435.4 | 16876.2 | 17360.7 | 15877.8 |
| 52.5° | 13417.5 | 13501.8 | 14681.4 | 15839.9 | 16421.2 | 16185.3 | 16054.7 | 16290.6 | 17693.5 | 17946.2 | 15987.3 |
| 55°   | 11732.4 | 12132.7 | 13817.7 | 15789.3 | 16956.2 | 17234.3 | 17133.2 | 17478.6 | 18620.3 | 18873.0 | 16585.5 |
| 56°   | 10953.1 | 11163.7 | 13299.6 | 15553.4 | 17061.5 | 17617.6 | 17567.1 | 17722.9 | 19113.1 | 19378.5 | 16678.2 |
| 57.5° | 9512.3  | 9529.2  | 11340.7 | 14508.6 | 16665.6 | 17731.4 | 17680.8 | 17803.0 | 19016.3 | 18835.1 | 15865.1 |
| 60°   | 5952.6  | 6213.8  | 7717.7  | 11159.5 | 14171.6 | 16450.7 | 16737.2 | 15755.6 | 16033.6 | 15650.3 | 12343.3 |
| 62.5° | 3083.7  | 3045.8  | 4044.2  | 6525.5  | 9407.0  | 11778.8 | 12044.2 | 11997.8 | 11568.2 | 11007.9 | 8063.2  |
| 65°   | 1537.6  | 1546.1  | 2114.8  | 3231.2  | 4819.4  | 6167.4  | 6908.9  | 6988.9  | 5847.3  | 5379.7  | 3825.2  |
| 67.5° | 1116.4  | 1158.5  | 1520.8  | 1975.8  | 2270.7  | 2540.3  | 3113.2  | 3054.2  | 2312.8  | 2199.0  | 2039.0  |
| 70°   | 867.8   | 905.7   | 1234.3  | 1508.2  | 1369.1  | 1369.1  | 1491.3  | 1541.9  | 1647.2  | 1693.5  | 1748.3  |
| 72.5° | 631.9   | 661.4   | 943.7   | 1040.5  | 897.3   | 964.7   | 1116.4  | 1234.3  | 1343.9  | 1360.7  | 1423.9  |
| 75°   | 433.9   | 459.2   | 619.3   | 572.9   | 539.2   | 665.6   | 817.3   | 926.8   | 1006.8  | 1049.0  | 1086.9  |
| 77.5° | 282.3   | 290.7   | 353.9   | 299.1   | 345.4   | 429.7   | 530.8   | 623.5   | 703.5   | 737.2   | 745.7   |
| 80°   | 126.4   | 139.0   | 151.7   | 189.6   | 240.1   | 307.5   | 379.1   | 455.0   | 505.5   | 518.2   | 543.4   |
| 82.5° | 71.6    | 71.6    | 92.7    | 134.8   | 176.9   | 223.3   | 273.8   | 328.6   | 387.6   | 400.2   | 396.0   |
| 85°   | 37.9    | 37.9    | 54.8    | 80.0    | 109.5   | 130.6   | 126.4   | 130.6   | 139.0   | 160.1   | 155.9   |
| 87.5° | 12.6    | 12.6    | 16.9    | 16.9    | 21.1    | 25.3    | 21.1    | 29.5    | 37.9    | 37.9    | 37.9    |
| 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: P530586

CATALOG NUMBER: GLAN-SA5D-740-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8652.9  | 8652.9 | 8652.9 | 8652.9 | 8652.9 | 8652.9 | 8652.9 | 8652.9 | 8652.9 | 8652.9 | 8652.9 |
| 2.5°  | 8640.3  | 8678.2 | 8627.7 | 8737.2 | 8737.2 | 8716.1 | 8610.8 | 8644.5 | 8669.8 | 8669.8 | 8690.9 |
| 5°    | 8804.6  | 8792.0 | 8825.7 | 8695.1 | 8615.0 | 8585.5 | 8412.8 | 8328.6 | 8256.9 | 8252.7 | 8189.5 |
| 7.5°  | 8897.3  | 8863.6 | 8850.9 | 8754.0 | 8400.2 | 8185.3 | 7814.6 | 7599.8 | 7553.4 | 7389.1 | 7452.3 |
| 10°   | 9044.7  | 9107.9 | 9044.7 | 8518.1 | 8025.2 | 7532.4 | 7170.1 | 6837.3 | 6706.7 | 6601.3 | 6538.2 |
| 12.5° | 9348.0  | 9318.6 | 8952.0 | 8240.1 | 7549.2 | 6963.6 | 6424.4 | 6074.8 | 5944.2 | 5851.5 | 5843.1 |
| 15°   | 9605.0  | 9457.6 | 8897.3 | 7802.0 | 6807.8 | 6184.3 | 5741.9 | 5493.4 | 5434.4 | 5442.8 | 5480.8 |
| 17.5° | 9693.5  | 9592.4 | 8610.8 | 7347.0 | 6255.9 | 5522.9 | 5316.5 | 5278.5 | 5333.3 | 5396.5 | 5413.4 |
| 20°   | 9832.5  | 9672.4 | 8492.9 | 6727.7 | 5573.4 | 5110.0 | 5097.4 | 5232.2 | 5333.3 | 5426.0 | 5438.6 |
| 22.5° | 10123.2 | 9718.8 | 8109.5 | 6142.2 | 5105.8 | 4987.9 | 5110.0 | 5223.8 | 5379.7 | 5455.5 | 5388.1 |
| 25°   | 10207.4 | 9617.7 | 7570.3 | 5438.6 | 4810.9 | 4912.0 | 5042.6 | 5198.5 | 5308.0 | 5350.2 | 5379.7 |
| 27.5° | 10279.1 | 9461.8 | 6841.5 | 4971.0 | 4718.3 | 4907.8 | 5042.6 | 5173.2 | 5232.2 | 5270.1 | 5303.8 |
| 30°   | 10481.3 | 9415.4 | 6209.6 | 4659.3 | 4659.3 | 4823.6 | 4996.3 | 5030.0 | 5110.0 | 5156.4 | 5215.4 |
| 32.5° | 10582.4 | 9095.3 | 5560.8 | 4461.3 | 4600.3 | 4865.7 | 4878.3 | 4941.5 | 4945.7 | 4983.7 | 4920.5 |
| 35°   | 10847.8 | 8867.8 | 4958.4 | 4318.0 | 4625.6 | 4823.6 | 4886.8 | 4848.8 | 4642.4 | 4541.3 | 4562.4 |
| 37.5° | 11041.6 | 8754.0 | 4524.5 | 4301.2 | 4629.8 | 4869.9 | 4903.6 | 4617.1 | 4402.3 | 4233.8 | 4275.9 |
| 40°   | 11563.9 | 8471.8 | 4195.9 | 4271.7 | 4667.7 | 4920.5 | 4827.8 | 4516.0 | 4128.5 | 3955.8 | 3926.3 |
| 42.5° | 11964.1 | 8269.6 | 3989.5 | 4238.0 | 4697.2 | 4992.1 | 4789.9 | 4313.8 | 3917.8 | 3757.8 | 3799.9 |
| 45°   | 12427.5 | 8223.2 | 3879.9 | 4246.4 | 4747.7 | 5030.0 | 4743.5 | 4158.0 | 3736.7 | 3673.5 | 3660.9 |
| 47.5° | 12591.8 | 7890.4 | 3762.0 | 4174.8 | 4735.1 | 5017.4 | 4587.7 | 4040.0 | 3669.3 | 3677.7 | 3711.4 |
| 50°   | 12318.0 | 7549.2 | 3673.5 | 4027.4 | 4650.9 | 4903.6 | 4343.3 | 3884.1 | 3631.4 | 3736.7 | 3795.7 |
| 52.5° | 11968.4 | 7199.6 | 3492.4 | 3829.4 | 4478.1 | 4726.7 | 4229.6 | 3875.7 | 3593.5 | 3559.8 | 3572.4 |
| 55°   | 12073.7 | 6913.1 | 3239.6 | 3559.8 | 4200.1 | 4398.1 | 4103.2 | 3795.7 | 3500.8 | 3374.4 | 3416.5 |
| 56°   | 11732.4 | 6618.2 | 3075.3 | 3391.2 | 4010.5 | 4187.5 | 4040.0 | 3724.1 | 3424.9 | 3340.7 | 3340.7 |
| 57.5° | 10767.7 | 5628.2 | 2860.4 | 3121.6 | 3610.3 | 3820.9 | 3917.8 | 3681.9 | 3340.7 | 3193.2 | 3197.5 |
| 60°   | 7941.0  | 4002.1 | 2565.6 | 2750.9 | 2991.0 | 3159.5 | 3610.3 | 3564.0 | 3130.1 | 3029.0 | 2991.0 |
| 62.5° | 4895.2  | 2923.6 | 2354.9 | 2426.5 | 2548.7 | 2687.7 | 3151.1 | 3226.9 | 2906.8 | 2797.3 | 2772.0 |
| 65°   | 2742.5  | 2237.0 | 2194.8 | 2224.3 | 2283.3 | 2354.9 | 2616.1 | 2784.6 | 2565.6 | 2397.0 | 2388.6 |
| 67.5° | 2005.3  | 2001.0 | 2034.7 | 2060.0 | 2085.3 | 2085.3 | 2148.5 | 2215.9 | 2186.4 | 2051.6 | 2039.0 |
| 70°   | 1782.0  | 1794.6 | 1819.9 | 1824.1 | 1832.5 | 1803.0 | 1752.5 | 1731.4 | 1765.1 | 1680.9 | 1664.0 |
| 72.5° | 1470.2  | 1512.4 | 1541.9 | 1546.1 | 1499.7 | 1461.8 | 1394.4 | 1322.8 | 1297.5 | 1280.7 | 1276.5 |
| 75°   | 1129.0  | 1158.5 | 1171.1 | 1166.9 | 1150.1 | 1095.3 | 1015.3 | 943.7  | 897.3  | 846.8  | 872.0  |
| 77.5° | 762.5   | 804.6  | 825.7  | 825.7  | 800.4  | 716.2  | 678.2  | 623.5  | 577.1  | 522.4  | 530.8  |
| 80°   | 535.0   | 564.5  | 598.2  | 594.0  | 551.9  | 509.7  | 455.0  | 404.4  | 366.5  | 324.4  | 320.2  |
| 82.5° | 400.2   | 417.1  | 433.9  | 425.5  | 396.0  | 353.9  | 316.0  | 269.6  | 227.5  | 198.0  | 198.0  |
| 85°   | 143.2   | 155.9  | 189.6  | 198.0  | 214.8  | 214.8  | 181.1  | 151.7  | 122.2  | 101.1  | 101.1  |
| 87.5° | 42.1    | 42.1   | 46.3   | 46.3   | 42.1   | 46.3   | 37.9   | 42.1   | 46.3   | 29.5   | 29.5   |
| 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)