

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: P454428

Luminaire Tested: **GLAN-SA5C-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35552 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

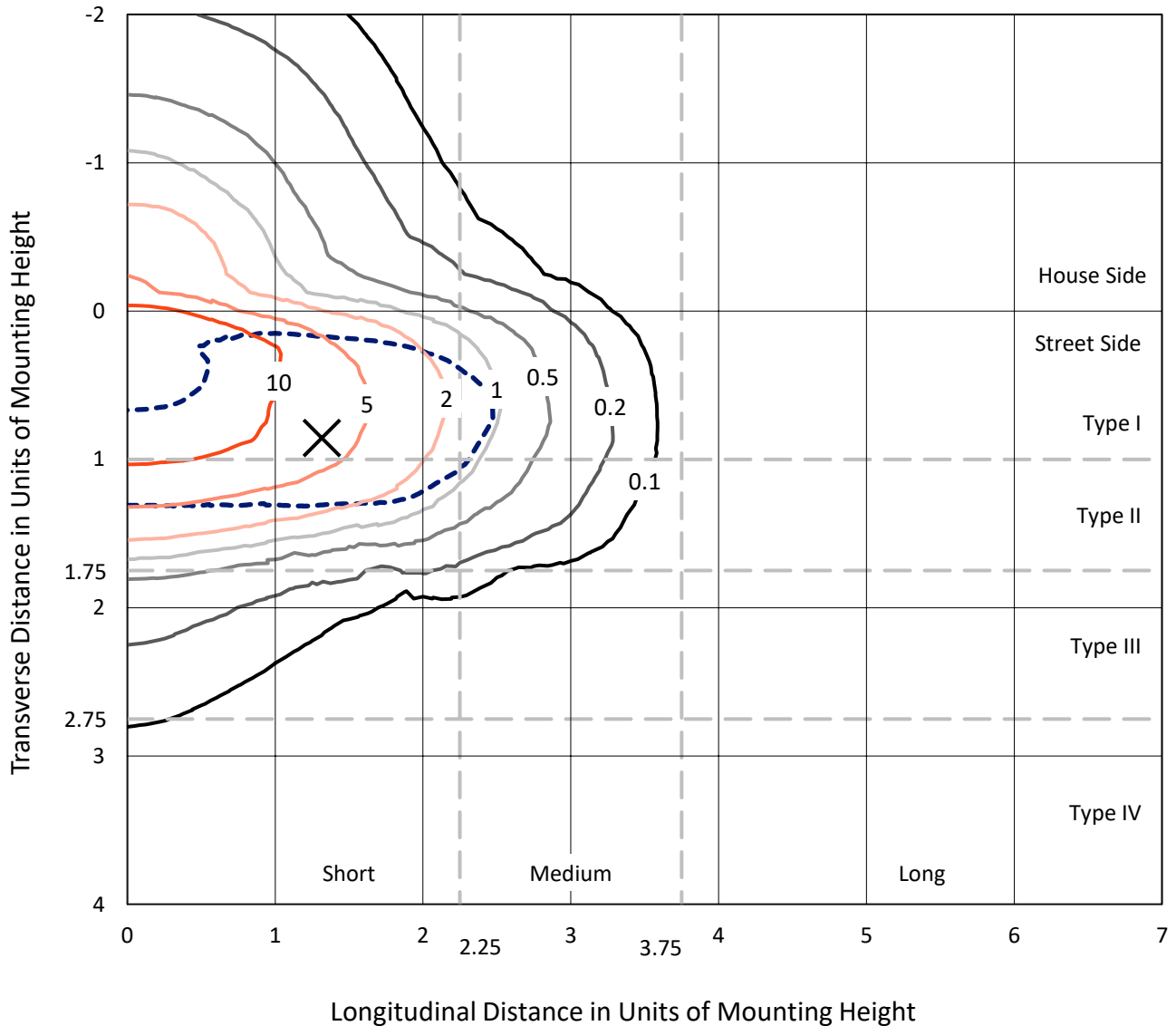
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454428  
 CATALOG NUMBER: GLAN-SA5C-740-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

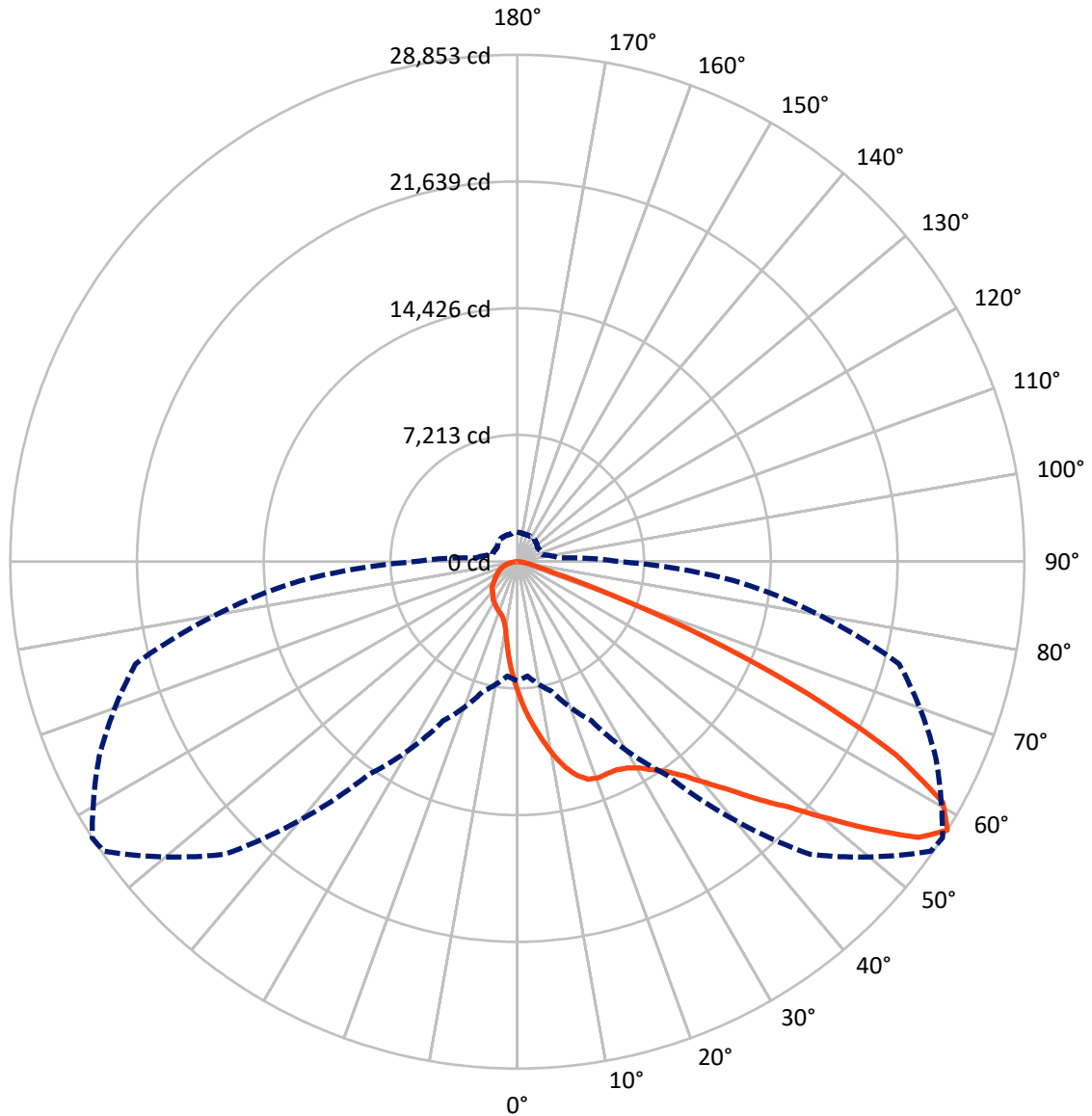
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P454428  
CATALOG NUMBER: GLAN-SA5C-740-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P454428

CATALOG NUMBER: GLAN-SA5C-740-U-AFL

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5406.5   | 0.0    | 5406.5  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 30145.5  | 0.0    | 30145.5 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 35552.0  | 0.0    | 35552.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 717.8   | 2.0       |
| 10°-20°   | 2115.5  | 6.0       |
| 20°-30°   | 3512.9  | 9.9       |
| 30°-40°   | 5291.4  | 14.9      |
| 40°-50°   | 7944.6  | 22.3      |
| 50°-60°   | 8904.9  | 25.0      |
| 60°-70°   | 5211.6  | 14.7      |
| 70°-80°   | 1541.5  | 4.3       |
| 80°-90°   | 311.6   | 0.9       |
| 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°    | 35552.0 | 100.0     |
| 0°-180°   | 35552.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P454428

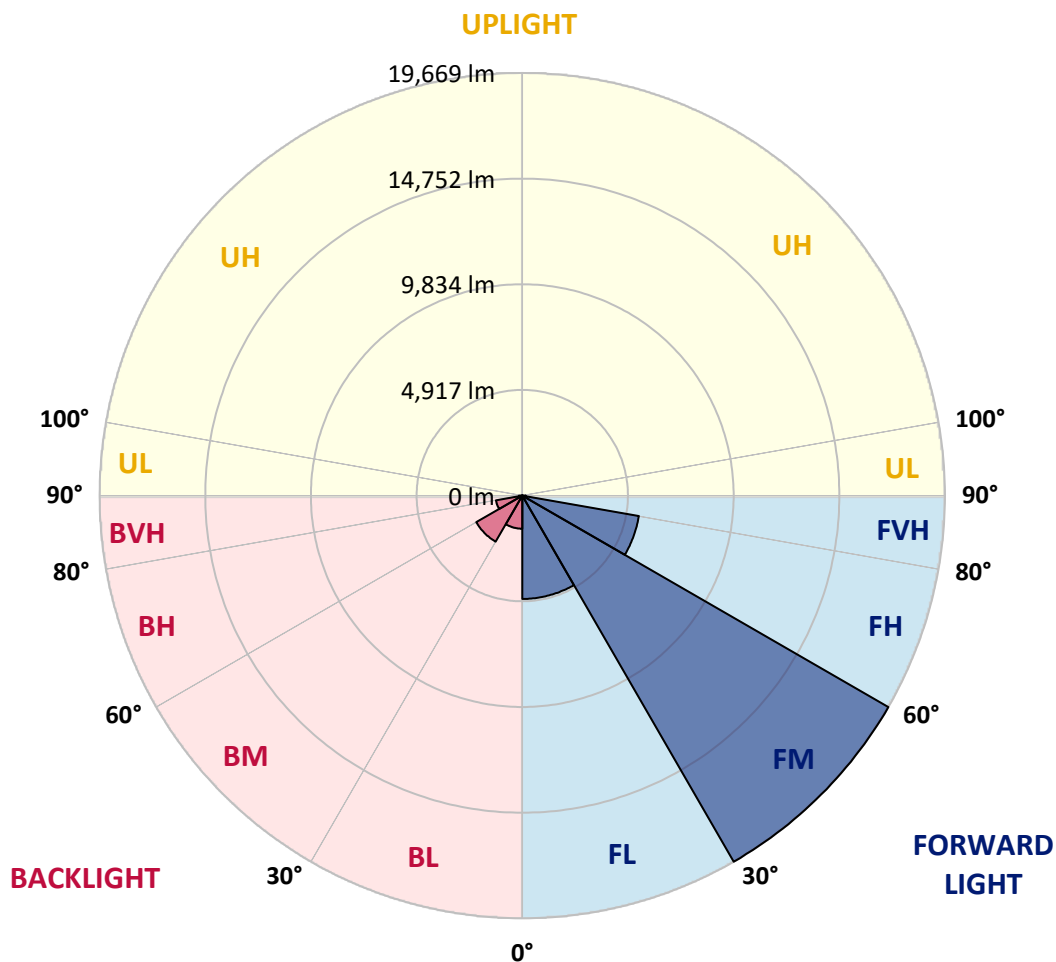
CATALOG NUMBER: GLAN-SA5C-740-U-AFL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4805.8  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 19668.9 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 5509.1  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 161.7   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1540.5  | 4.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2472.0  | 7.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1244.0  | 3.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 149.9   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P454428

CATALOG NUMBER: GLAN-SA5C-740-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  | 7469.1  |
| 2.5°  | 9280.9  | 9179.7  | 9099.9  | 9029.8  | 8938.4  | 8691.2  | 8444.1  | 8440.2  | 8243.6  | 7940.0  | 7628.6  |
| 5°    | 10793.0 | 10656.8 | 10674.3 | 10456.3 | 10238.3 | 9880.3  | 9356.8  | 9329.5  | 8911.1  | 8342.9  | 7764.9  |
| 7.5°  | 11777.7 | 11779.6 | 11725.2 | 11600.6 | 11365.1 | 10958.4 | 10364.8 | 10230.6 | 9648.7  | 8786.6  | 7920.6  |
| 10°   | 11727.1 | 11779.6 | 11871.1 | 11978.1 | 12050.1 | 11849.7 | 11308.7 | 11145.2 | 10388.2 | 9323.7  | 8093.8  |
| 12.5° | 11053.8 | 11135.5 | 11265.9 | 11534.4 | 11968.4 | 12299.2 | 12114.4 | 11982.0 | 11244.5 | 9858.9  | 8284.5  |
| 15°   | 10633.4 | 10682.1 | 10754.1 | 10935.0 | 11402.1 | 12194.2 | 12672.9 | 12602.8 | 12052.1 | 10464.1 | 8498.5  |
| 17.5° | 10505.0 | 10553.6 | 10577.0 | 10687.9 | 11020.7 | 11832.2 | 12892.8 | 13017.4 | 12768.3 | 11020.7 | 8714.6  |
| 20°   | 10633.4 | 10656.8 | 10656.8 | 10722.9 | 10983.7 | 11620.1 | 12883.1 | 13134.1 | 13356.0 | 11688.2 | 8917.0  |
| 22.5° | 10970.1 | 10979.8 | 10966.2 | 10989.5 | 11184.1 | 11678.4 | 12791.6 | 13103.0 | 13830.8 | 12254.5 | 9074.6  |
| 25°   | 11516.9 | 11532.5 | 11443.0 | 11388.5 | 11530.5 | 11935.3 | 12842.2 | 13128.3 | 14202.5 | 12795.5 | 9179.7  |
| 27.5° | 12137.7 | 12157.2 | 12048.2 | 11921.7 | 11987.9 | 12252.5 | 13040.7 | 13297.6 | 14480.8 | 13328.7 | 9245.8  |
| 30°   | 12898.6 | 12906.4 | 12723.5 | 12571.7 | 12528.9 | 12725.4 | 13379.3 | 13618.7 | 14827.2 | 13957.3 | 9345.1  |
| 32.5° | 13677.1 | 13735.5 | 13500.0 | 13285.9 | 13213.9 | 13274.2 | 13879.5 | 14111.1 | 15239.8 | 14632.6 | 9504.7  |
| 35°   | 14735.7 | 14745.5 | 14463.3 | 14202.5 | 13965.1 | 14042.9 | 14519.7 | 14687.1 | 15810.0 | 15413.0 | 9730.4  |
| 37.5° | 16057.1 | 16146.7 | 15757.4 | 15270.9 | 14979.0 | 14866.1 | 15294.3 | 15477.2 | 16609.8 | 16370.5 | 10071.0 |
| 40°   | 17524.5 | 17557.6 | 17224.8 | 16921.2 | 16388.0 | 16061.0 | 16356.8 | 16555.3 | 17596.5 | 17512.8 | 10466.0 |
| 42.5° | 18446.9 | 18518.9 | 18544.2 | 18513.1 | 18112.2 | 17563.4 | 17676.3 | 17769.7 | 18764.1 | 18585.1 | 10870.8 |
| 45°   | 18758.3 | 18865.3 | 19227.3 | 19994.1 | 20036.9 | 19495.9 | 19233.1 | 19322.7 | 20036.9 | 19667.1 | 11258.1 |
| 47.5° | 18242.6 | 18425.5 | 19093.0 | 20665.5 | 21842.8 | 21883.7 | 21091.7 | 20895.1 | 21196.7 | 20564.3 | 11538.3 |
| 50°   | 16909.5 | 16948.4 | 17970.1 | 20247.1 | 22689.4 | 24166.5 | 23347.2 | 22981.3 | 22298.2 | 21227.9 | 11731.0 |
| 52.5° | 14846.7 | 14891.4 | 15747.7 | 18302.9 | 22167.8 | 25762.3 | 25986.1 | 25332.2 | 23417.2 | 21743.6 | 11857.5 |
| 55°   | 11020.7 | 11279.5 | 12221.4 | 14691.0 | 19696.3 | 25612.4 | 28083.9 | 27712.2 | 24769.8 | 22152.3 | 12056.0 |
| 57.5° | 6776.3  | 6538.8  | 7655.9  | 9995.1  | 14813.6 | 23553.4 | 28732.0 | 28852.6 | 26258.5 | 22494.8 | 12388.8 |
| 60°   | 3117.6  | 3164.3  | 3625.6  | 5155.2  | 9029.8  | 18425.5 | 27062.2 | 27825.1 | 27081.7 | 22483.1 | 12472.4 |
| 62.5° | 2148.5  | 2105.7  | 1988.9  | 2263.3  | 4117.9  | 11653.1 | 22858.7 | 24150.9 | 25431.4 | 21784.5 | 12139.7 |
| 65°   | 1920.8  | 1878.0  | 1652.2  | 1576.3  | 1891.6  | 5079.3  | 16617.6 | 18248.4 | 21412.8 | 20021.3 | 11310.6 |
| 67.5° | 1794.3  | 1735.9  | 1502.4  | 1354.5  | 1350.6  | 2022.0  | 9798.5  | 11762.1 | 15882.0 | 16927.0 | 9800.5  |
| 70°   | 1662.0  | 1615.2  | 1383.7  | 1220.2  | 1150.1  | 1270.8  | 4306.7  | 5637.8  | 10312.3 | 12198.1 | 7634.5  |
| 72.5° | 1529.6  | 1475.1  | 1266.9  | 1091.8  | 1000.3  | 951.6   | 1650.3  | 2146.5  | 5826.6  | 7313.4  | 4680.3  |
| 75°   | 1337.0  | 1309.7  | 1132.6  | 988.6   | 889.4   | 768.7   | 1047.0  | 1194.9  | 2786.8  | 3358.9  | 2348.9  |
| 77.5° | 1169.6  | 1140.4  | 1006.1  | 864.1   | 792.1   | 624.7   | 743.4   | 811.5   | 1175.4  | 1362.3  | 1060.6  |
| 80°   | 856.3   | 885.5   | 848.5   | 762.9   | 706.4   | 490.4   | 500.1   | 556.6   | 698.6   | 772.6   | 648.0   |
| 82.5° | 543.0   | 597.4   | 653.9   | 587.7   | 535.2   | 387.3   | 346.4   | 367.8   | 476.8   | 506.0   | 288.0   |
| 85°   | 227.7   | 231.6   | 379.5   | 358.1   | 305.5   | 229.6   | 208.2   | 219.9   | 254.9   | 266.6   | 134.3   |
| 87.5° | 87.6    | 85.6    | 134.3   | 124.5   | 95.4    | 66.2    | 66.2    | 74.0    | 101.2   | 93.4    | 42.8    |
| 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: P454428  
 CATALOG NUMBER: GLAN-SA5C-740-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 | 7469.1 |
| 2.5°  | 7494.4 | 7356.2 | 7081.8 | 6741.2 | 6492.1 | 6211.9 | 5964.7 | 5787.7 | 5721.5 | 5690.3 | 5632.0 |
| 5°    | 7488.5 | 7216.1 | 6647.8 | 6052.3 | 5573.6 | 5083.2 | 4668.7 | 4400.1 | 4376.7 | 4197.7 | 4180.2 |
| 7.5°  | 7490.5 | 7074.0 | 6169.1 | 5293.3 | 4563.6 | 4061.5 | 3719.0 | 3629.4 | 3522.4 | 3495.2 | 3508.8 |
| 10°   | 7496.3 | 6893.0 | 5655.3 | 4542.2 | 3835.7 | 3506.8 | 3378.4 | 3343.4 | 3347.3 | 3358.9 | 3360.9 |
| 12.5° | 7504.1 | 6717.9 | 5122.1 | 3972.0 | 3427.1 | 3290.8 | 3277.2 | 3308.3 | 3341.4 | 3366.7 | 3372.6 |
| 15°   | 7513.8 | 6517.4 | 4602.5 | 3512.7 | 3222.7 | 3211.0 | 3255.8 | 3308.3 | 3355.0 | 3392.0 | 3397.9 |
| 17.5° | 7502.2 | 6283.9 | 4166.6 | 3230.5 | 3109.8 | 3166.3 | 3240.2 | 3306.4 | 3349.2 | 3384.2 | 3388.1 |
| 20°   | 7474.9 | 6023.1 | 3746.2 | 3032.0 | 3039.8 | 3131.2 | 3211.0 | 3273.3 | 3320.0 | 3337.5 | 3351.2 |
| 22.5° | 7369.8 | 5711.8 | 3380.3 | 2878.3 | 2956.1 | 3082.6 | 3178.0 | 3214.9 | 3162.4 | 3125.4 | 3135.1 |
| 25°   | 7190.8 | 5307.0 | 3039.8 | 2753.7 | 2880.2 | 3014.5 | 3111.8 | 3022.3 | 2979.5 | 2963.9 | 2971.7 |
| 27.5° | 6967.0 | 4863.3 | 2782.9 | 2623.3 | 2782.9 | 2938.6 | 2911.3 | 2895.8 | 2876.3 | 2851.0 | 2856.9 |
| 30°   | 6725.7 | 4429.3 | 2564.9 | 2522.1 | 2677.8 | 2767.3 | 2779.0 | 2804.3 | 2782.9 | 2744.0 | 2759.5 |
| 32.5° | 6501.9 | 4020.6 | 2399.5 | 2436.5 | 2603.9 | 2590.2 | 2677.8 | 2707.0 | 2607.8 | 2477.4 | 2483.2 |
| 35°   | 6311.1 | 3641.1 | 2275.0 | 2352.8 | 2477.4 | 2483.2 | 2570.8 | 2469.6 | 2362.5 | 2300.3 | 2304.2 |
| 37.5° | 6167.1 | 3345.3 | 2193.2 | 2280.8 | 2315.8 | 2389.8 | 2343.1 | 2290.5 | 2276.9 | 2234.1 | 2236.0 |
| 40°   | 6081.5 | 3086.5 | 2140.7 | 2224.4 | 2218.5 | 2269.1 | 2119.3 | 2171.8 | 2191.3 | 2177.7 | 2179.6 |
| 42.5° | 5995.9 | 2903.6 | 2086.2 | 2146.5 | 2144.6 | 2045.3 | 2012.3 | 2057.0 | 2107.6 | 2113.4 | 2109.6 |
| 45°   | 5927.8 | 2761.5 | 2029.8 | 2027.8 | 2066.7 | 1911.1 | 1901.3 | 1928.6 | 2000.6 | 2035.6 | 2033.7 |
| 47.5° | 5851.9 | 2642.8 | 1944.1 | 1889.6 | 1901.3 | 1827.4 | 1811.8 | 1823.5 | 1911.1 | 1967.5 | 1983.1 |
| 50°   | 5756.5 | 2524.1 | 1837.1 | 1763.2 | 1714.5 | 1749.5 | 1753.4 | 1755.4 | 1842.9 | 1907.2 | 1920.8 |
| 52.5° | 5680.6 | 2434.6 | 1714.5 | 1660.0 | 1601.6 | 1679.5 | 1708.7 | 1712.6 | 1765.1 | 1817.6 | 1827.4 |
| 55°   | 5725.4 | 2384.0 | 1593.8 | 1554.9 | 1502.4 | 1607.5 | 1663.9 | 1671.7 | 1683.4 | 1722.3 | 1728.1 |
| 57.5° | 5859.7 | 2395.6 | 1496.5 | 1445.9 | 1407.0 | 1521.8 | 1617.2 | 1623.0 | 1615.2 | 1662.0 | 1669.7 |
| 60°   | 5900.5 | 2389.8 | 1424.5 | 1325.3 | 1301.9 | 1430.4 | 1549.1 | 1560.8 | 1558.8 | 1626.9 | 1640.5 |
| 62.5° | 5729.3 | 2315.8 | 1352.5 | 1224.1 | 1208.5 | 1337.0 | 1453.7 | 1500.4 | 1510.2 | 1607.5 | 1625.0 |
| 65°   | 5326.4 | 2164.0 | 1257.2 | 1117.1 | 1117.1 | 1237.7 | 1362.3 | 1426.5 | 1453.7 | 1584.1 | 1603.6 |
| 67.5° | 4795.1 | 1985.0 | 1159.9 | 1025.6 | 1021.7 | 1142.4 | 1265.0 | 1331.1 | 1373.9 | 1551.0 | 1562.7 |
| 70°   | 3979.7 | 1743.7 | 1039.2 | 926.3  | 926.3  | 1035.3 | 1146.2 | 1226.0 | 1288.3 | 1488.8 | 1488.8 |
| 72.5° | 2726.5 | 1449.8 | 893.3  | 813.5  | 815.4  | 916.6  | 1029.5 | 1119.0 | 1192.9 | 1364.2 | 1368.1 |
| 75°   | 1724.2 | 1132.6 | 733.7  | 692.8  | 700.6  | 795.9  | 912.7  | 1006.1 | 1154.0 | 1348.6 | 1354.5 |
| 77.5° | 916.6  | 795.9  | 583.8  | 574.1  | 583.8  | 671.4  | 801.8  | 930.2  | 1157.9 | 1169.6 | 1150.1 |
| 80°   | 593.6  | 564.4  | 461.2  | 441.8  | 445.7  | 541.0  | 714.2  | 883.5  | 930.2  | 941.9  | 899.1  |
| 82.5° | 323.0  | 358.1  | 326.9  | 307.5  | 307.5  | 422.3  | 609.1  | 702.5  | 667.5  | 554.6  | 529.3  |
| 85°   | 138.2  | 167.4  | 169.3  | 147.9  | 142.1  | 260.8  | 408.7  | 383.4  | 356.1  | 340.6  | 336.7  |
| 87.5° | 38.9   | 54.5   | 54.5   | 40.9   | 31.1   | 72.0   | 81.7   | 23.4   | 0.0    | 1.9    | 3.9    |
| 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)