

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: P530281

Luminaire Tested: **GLAN-SA5C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23919 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 269  
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



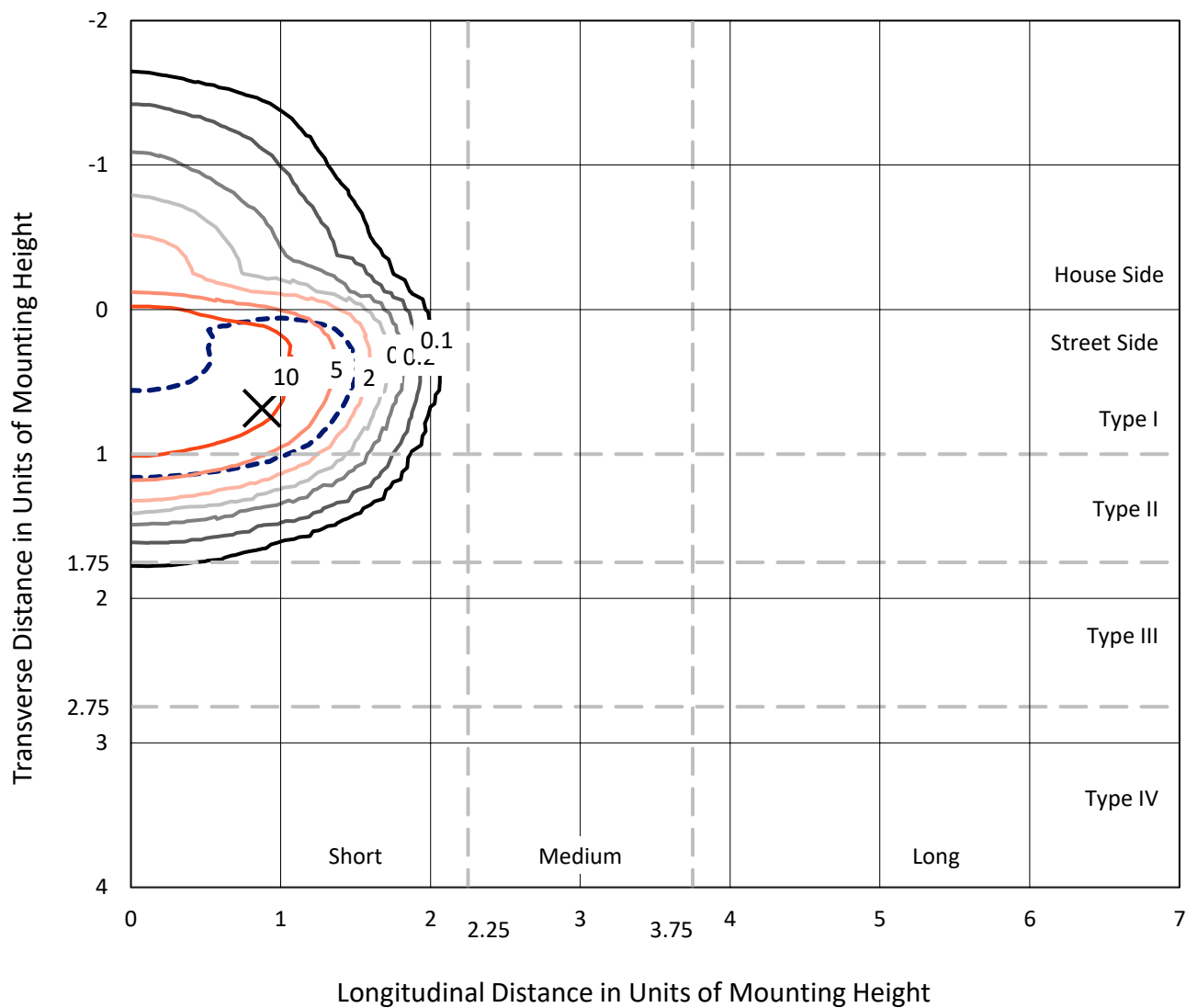
REPORT NUMBER: P530281

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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

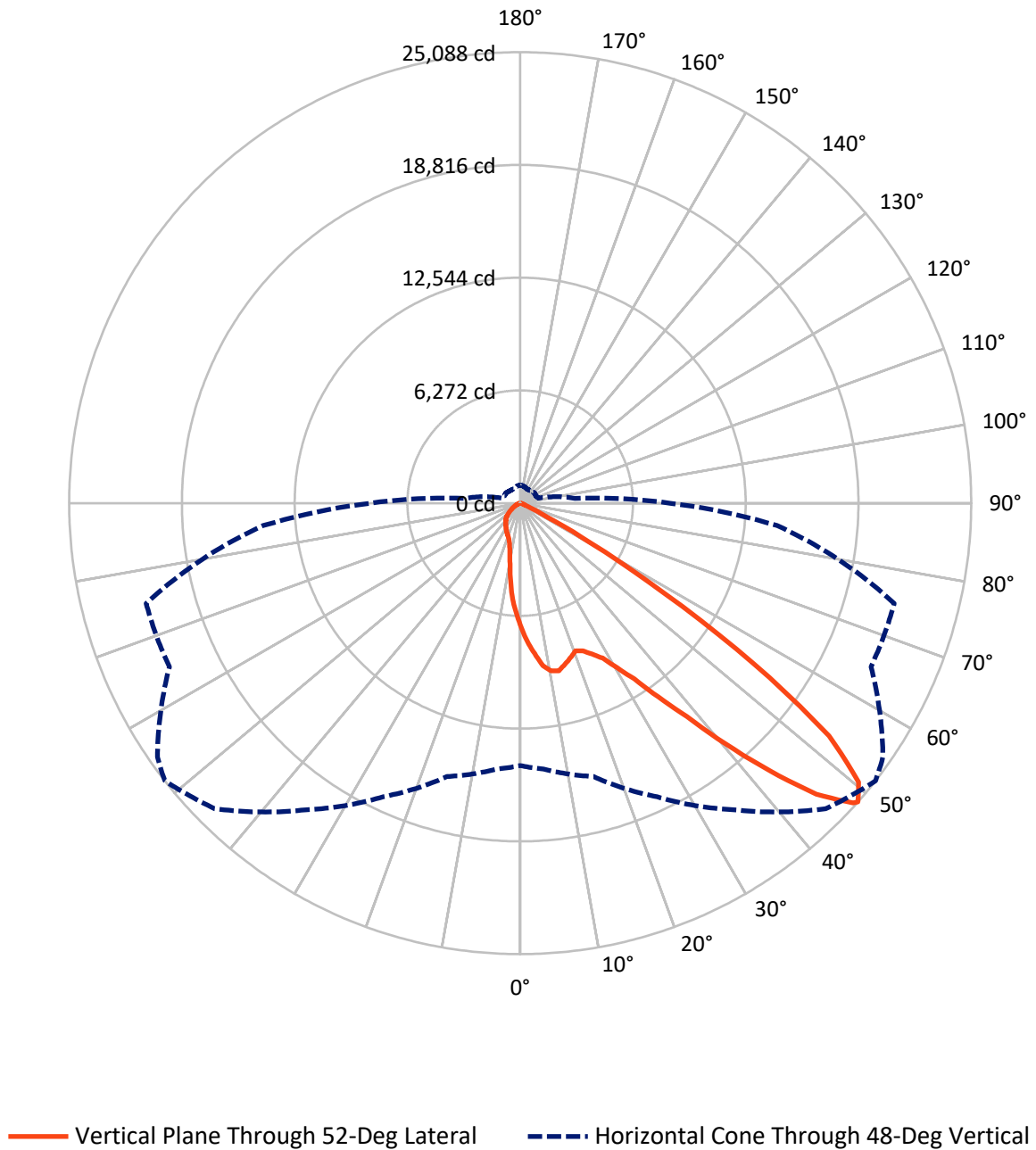


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P530281

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2912.3   | 0.0    | 2912.3  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 21006.7  | 0.0    | 21006.7 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 23919.0  | 0.0    | 23919.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 632.2   | 2.6       |
| 10°-20°   | 1652.2  | 6.9       |
| 20°-30°   | 2821.0  | 11.8      |
| 30°-40°   | 5194.9  | 21.7      |
| 40°-50°   | 8067.7  | 33.7      |
| 50°-60°   | 4855.4  | 20.3      |
| 60°-70°   | 561.6   | 2.3       |
| 70°-80°   | 108.7   | 0.5       |
| 80°-90°   | 25.1    | 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°    | 23919.0 | 100.0     |
| 0°-180°   | 23919.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P530281

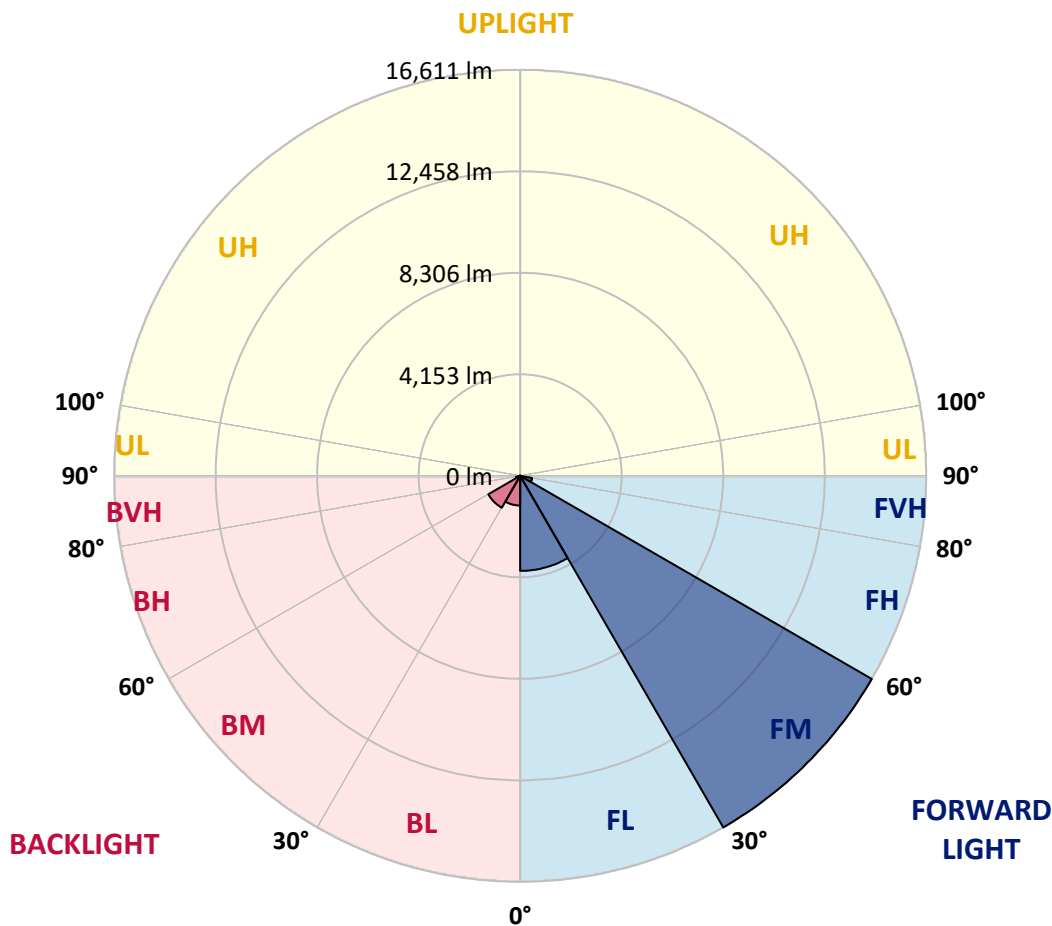
CATALOG NUMBER: GLAN-SA5C-730-U-AFL-GRSBK

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3888.9  | 16.3      |                         |      |        |
| FM   | (30°-60°)   | 16611.3 | 69.4      |                         |      |        |
| FH   | (60°-80°)   | 494.5   | 2.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 12.0    | 0.1       |                         |      | G1/100 |
| BL   | (0°-30°)    | 1216.6  | 5.1       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 1506.8  | 6.3       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 175.8   | 0.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 13.2    | 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-G1**

Type II Short



REPORT NUMBER: P530281

CATALOG NUMBER: GLAN-SA5C-730-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  | 6907.4  |
| 2.5°  | 8371.9  | 8180.1  | 8197.5  | 8072.0  | 7998.8  | 7880.2  | 7719.8  | 7688.5  | 7514.1  | 7277.0  | 7036.4  |
| 5°    | 9125.0  | 9079.7  | 9139.0  | 8957.7  | 8964.6  | 8769.4  | 8392.8  | 8399.8  | 7998.8  | 7611.7  | 7238.7  |
| 7.5°  | 9173.8  | 9069.2  | 9128.5  | 9288.9  | 9383.1  | 9348.2  | 9135.5  | 8950.7  | 8570.6  | 8002.3  | 7458.3  |
| 10°   | 8215.0  | 8413.7  | 8476.5  | 8741.5  | 9118.1  | 9515.6  | 9491.2  | 9501.6  | 9184.3  | 8441.6  | 7646.6  |
| 12.5° | 7639.6  | 7507.1  | 7719.8  | 7880.2  | 8448.6  | 9219.2  | 9571.3  | 9648.1  | 9672.5  | 8867.0  | 7834.9  |
| 15°   | 7378.1  | 7378.1  | 7413.0  | 7458.3  | 7869.8  | 8581.1  | 9299.4  | 9522.5  | 10049.0 | 9424.9  | 8131.3  |
| 17.5° | 7542.0  | 7535.0  | 7583.9  | 7489.7  | 7643.1  | 8190.6  | 9048.3  | 9302.9  | 10471.0 | 9972.3  | 8364.9  |
| 20°   | 8040.6  | 8065.0  | 8033.7  | 7761.7  | 7772.1  | 8183.6  | 8769.4  | 9170.4  | 10756.9 | 10446.5 | 8675.2  |
| 22.5° | 8734.5  | 8748.5  | 8570.6  | 8274.2  | 8187.1  | 8389.3  | 8929.8  | 9236.6  | 10987.0 | 11014.9 | 8769.4  |
| 25°   | 9536.5  | 9480.7  | 9445.8  | 9027.4  | 8762.4  | 8936.7  | 9292.4  | 9470.2  | 11130.0 | 11503.1 | 9037.9  |
| 27.5° | 10648.8 | 10537.2 | 10324.5 | 9951.4  | 9756.1  | 9508.6  | 9763.1  | 10056.0 | 11537.9 | 12186.5 | 9330.8  |
| 30°   | 12291.1 | 12193.4 | 11778.5 | 11297.3 | 10784.8 | 10540.7 | 10620.9 | 10781.3 | 12273.6 | 12978.0 | 9717.8  |
| 32.5° | 14763.2 | 14557.5 | 13957.8 | 13040.7 | 12343.4 | 11670.4 | 11649.5 | 11820.4 | 12932.7 | 14072.8 | 10178.1 |
| 35°   | 17486.5 | 17423.7 | 16541.5 | 15596.6 | 14247.2 | 13208.1 | 13225.5 | 13316.2 | 14194.9 | 15509.4 | 10781.3 |
| 37.5° | 19296.1 | 19641.3 | 19079.9 | 18065.3 | 16932.0 | 15446.7 | 15070.1 | 15101.5 | 15927.8 | 17211.0 | 11869.2 |
| 40°   | 20694.3 | 20401.4 | 20467.7 | 20230.6 | 19456.5 | 18445.3 | 17612.0 | 17448.1 | 17932.8 | 19093.9 | 12950.1 |
| 42.5° | 20084.1 | 20098.1 | 20506.0 | 21067.4 | 21259.2 | 21186.0 | 20335.2 | 20024.9 | 19648.3 | 20635.1 | 13978.7 |
| 45°   | 18361.6 | 18720.8 | 19250.8 | 20736.2 | 22040.3 | 23264.1 | 23096.8 | 22580.7 | 20833.8 | 21855.4 | 14571.5 |
| 47.5° | 15614.0 | 15600.1 | 16468.3 | 18400.0 | 21297.6 | 24163.7 | 24923.9 | 24561.2 | 21674.1 | 21719.5 | 14449.4 |
| 48°   | 14599.4 | 14850.4 | 15746.5 | 18019.9 | 20826.8 | 24031.2 | 25087.7 | 24631.0 | 21531.2 | 21538.1 | 14344.8 |
| 50°   | 10791.7 | 10746.4 | 11862.2 | 14651.7 | 18602.2 | 22580.7 | 24397.3 | 24753.0 | 21527.7 | 20621.1 | 13612.6 |
| 52.5° | 5701.0  | 5896.2  | 6708.7  | 9212.2  | 13152.3 | 18480.2 | 21520.7 | 22075.1 | 20767.6 | 19121.8 | 12559.6 |
| 55°   | 2423.3  | 2189.7  | 2813.9  | 4159.8  | 7399.1  | 12346.9 | 15788.4 | 17022.7 | 17559.7 | 16921.6 | 10987.0 |
| 57.5° | 864.7   | 944.9   | 1087.9  | 1565.6  | 3110.3  | 6757.5  | 9414.4  | 10373.3 | 12165.5 | 12416.6 | 7486.2  |
| 60°   | 554.4   | 564.9   | 610.2   | 718.3   | 1168.1  | 2604.7  | 4466.6  | 5230.2  | 6042.7  | 6237.9  | 3493.8  |
| 62.5° | 428.9   | 432.4   | 453.3   | 470.7   | 554.4   | 1011.2  | 1677.2  | 1987.5  | 2064.2  | 1774.8  | 917.0   |
| 65°   | 359.1   | 362.6   | 369.6   | 369.6   | 394.0   | 474.2   | 585.8   | 645.1   | 627.6   | 620.7   | 519.5   |
| 67.5° | 275.5   | 282.4   | 296.4   | 296.4   | 310.3   | 289.4   | 324.3   | 345.2   | 390.5   | 474.2   | 442.8   |
| 70°   | 216.2   | 219.7   | 230.1   | 237.1   | 237.1   | 209.2   | 233.6   | 254.5   | 285.9   | 352.2   | 348.7   |
| 72.5° | 167.4   | 174.3   | 181.3   | 181.3   | 170.9   | 143.0   | 167.4   | 184.8   | 205.7   | 244.1   | 237.1   |
| 75°   | 129.0   | 129.0   | 132.5   | 108.1   | 83.7    | 73.2    | 101.1   | 122.0   | 153.4   | 160.4   | 132.5   |
| 77.5° | 34.9    | 38.4    | 34.9    | 31.4    | 34.9    | 52.3    | 66.2    | 76.7    | 97.6    | 97.6    | 87.2    |
| 80°   | 0.0     | 3.5     | 10.5    | 20.9    | 34.9    | 48.8    | 59.3    | 66.2    | 76.7    | 83.7    | 80.2    |
| 82.5° | 0.0     | 3.5     | 10.5    | 20.9    | 31.4    | 38.4    | 52.3    | 55.8    | 62.8    | 73.2    | 73.2    |
| 85°   | 0.0     | 3.5     | 7.0     | 13.9    | 20.9    | 24.4    | 24.4    | 20.9    | 20.9    | 17.4    | 13.9    |
| 87.5° | 0.0     | 0.0     | 3.5     | 7.0     | 7.0     | 10.5    | 10.5    | 10.5    | 10.5    | 10.5    | 10.5    |
| 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: P530281

CATALOG NUMBER: GLAN-SA5C-730-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 | 6907.4 |
| 2.5°  | 6942.3 | 6834.2 | 6670.3 | 6412.3 | 6164.7 | 6004.3 | 5850.9 | 5680.0 | 5585.9 | 5578.9 | 5526.6 |
| 5°    | 7026.0 | 6781.9 | 6391.4 | 5948.5 | 5474.3 | 5066.4 | 4654.9 | 4386.4 | 4145.8 | 4013.3 | 3988.9 |
| 7.5°  | 7071.3 | 6754.0 | 6122.9 | 5380.2 | 4571.2 | 3905.2 | 3445.0 | 3106.8 | 2974.3 | 2876.6 | 2873.1 |
| 10°   | 7165.4 | 6705.2 | 5721.9 | 4627.0 | 3626.3 | 2953.3 | 2636.0 | 2482.6 | 2409.4 | 2381.5 | 2339.7 |
| 12.5° | 7235.2 | 6614.5 | 5310.4 | 3852.9 | 2866.2 | 2447.8 | 2308.3 | 2273.4 | 2276.9 | 2290.8 | 2273.4 |
| 15°   | 7332.8 | 6534.3 | 4756.0 | 3162.6 | 2405.9 | 2203.7 | 2203.7 | 2210.7 | 2259.5 | 2266.4 | 2263.0 |
| 17.5° | 7325.8 | 6377.4 | 4184.2 | 2604.7 | 2127.0 | 2099.1 | 2109.5 | 2175.8 | 2207.2 | 2217.6 | 2193.2 |
| 20°   | 7409.5 | 6231.0 | 3594.9 | 2224.6 | 1970.1 | 2011.9 | 2081.6 | 2099.1 | 2137.4 | 2144.4 | 2116.5 |
| 22.5° | 7385.1 | 5864.8 | 3047.5 | 1924.7 | 1851.5 | 1931.7 | 2001.4 | 2022.4 | 2011.9 | 1991.0 | 1987.5 |
| 25°   | 7339.8 | 5551.0 | 2545.4 | 1726.0 | 1764.3 | 1851.5 | 1917.8 | 1879.4 | 1858.5 | 1862.0 | 1865.5 |
| 27.5° | 7259.6 | 5153.5 | 2130.5 | 1586.5 | 1645.8 | 1774.8 | 1771.3 | 1757.4 | 1778.3 | 1760.8 | 1778.3 |
| 30°   | 7245.6 | 4756.0 | 1788.7 | 1461.0 | 1558.6 | 1652.8 | 1659.7 | 1684.1 | 1708.5 | 1677.2 | 1708.5 |
| 32.5° | 7266.6 | 4320.2 | 1544.7 | 1384.3 | 1506.3 | 1509.8 | 1586.5 | 1610.9 | 1593.5 | 1523.7 | 1530.7 |
| 35°   | 7426.9 | 3985.4 | 1366.8 | 1342.4 | 1422.6 | 1426.1 | 1499.3 | 1468.0 | 1391.2 | 1349.4 | 1373.8 |
| 37.5° | 7765.2 | 3706.5 | 1283.2 | 1304.1 | 1311.0 | 1356.4 | 1359.9 | 1297.1 | 1304.1 | 1300.6 | 1314.5 |
| 40°   | 8197.5 | 3493.8 | 1223.9 | 1269.2 | 1262.2 | 1293.6 | 1168.1 | 1203.0 | 1234.3 | 1244.8 | 1251.8 |
| 42.5° | 8493.9 | 3340.4 | 1185.5 | 1213.4 | 1199.5 | 1143.7 | 1073.9 | 1108.8 | 1133.2 | 1171.6 | 1178.5 |
| 45°   | 8626.4 | 3218.3 | 1140.2 | 1115.8 | 1115.8 | 1014.7 | 986.8  | 993.7  | 1049.5 | 1091.4 | 1084.4 |
| 47.5° | 8410.2 | 3099.8 | 1060.0 | 986.8  | 1011.2 | 927.5  | 896.1  | 896.1  | 955.4  | 1007.7 | 997.2  |
| 48°   | 8326.5 | 3051.0 | 1063.5 | 958.9  | 976.3  | 913.5  | 882.2  | 875.2  | 941.4  | 990.3  | 990.3  |
| 50°   | 7911.6 | 2869.7 | 972.8  | 882.2  | 847.3  | 840.3  | 819.4  | 826.4  | 868.2  | 913.5  | 913.5  |
| 52.5° | 7102.7 | 2479.1 | 822.9  | 756.6  | 693.9  | 735.7  | 746.2  | 732.2  | 753.2  | 795.0  | 791.5  |
| 55°   | 5927.6 | 1903.8 | 659.0  | 627.6  | 578.8  | 624.1  | 645.1  | 627.6  | 606.7  | 638.1  | 638.1  |
| 57.5° | 3797.2 | 1025.1 | 526.5  | 533.5  | 484.7  | 530.0  | 547.4  | 505.6  | 467.2  | 491.6  | 488.2  |
| 60°   | 1712.0 | 613.7  | 432.4  | 421.9  | 390.5  | 442.8  | 470.7  | 421.9  | 369.6  | 387.0  | 404.5  |
| 62.5° | 641.6  | 435.9  | 327.8  | 320.8  | 313.8  | 362.6  | 376.6  | 338.2  | 285.9  | 296.4  | 299.9  |
| 65°   | 470.7  | 383.6  | 261.5  | 237.1  | 251.1  | 285.9  | 278.9  | 240.6  | 205.7  | 205.7  | 212.7  |
| 67.5° | 401.0  | 334.7  | 212.7  | 184.8  | 184.8  | 188.3  | 174.3  | 153.4  | 143.0  | 149.9  | 156.9  |
| 70°   | 313.8  | 265.0  | 167.4  | 143.0  | 129.0  | 115.1  | 101.1  | 97.6   | 87.2   | 97.6   | 94.1   |
| 72.5° | 202.2  | 177.8  | 129.0  | 108.1  | 97.6   | 80.2   | 66.2   | 62.8   | 52.3   | 48.8   | 48.8   |
| 75°   | 108.1  | 108.1  | 101.1  | 87.2   | 76.7   | 62.8   | 52.3   | 41.8   | 27.9   | 20.9   | 20.9   |
| 77.5° | 76.7   | 83.7   | 90.7   | 83.7   | 69.7   | 52.3   | 41.8   | 27.9   | 13.9   | 7.0    | 7.0    |
| 80°   | 73.2   | 83.7   | 90.7   | 80.2   | 69.7   | 52.3   | 38.4   | 20.9   | 10.5   | 3.5    | 3.5    |
| 82.5° | 66.2   | 76.7   | 83.7   | 73.2   | 62.8   | 45.3   | 34.9   | 20.9   | 10.5   | 3.5    | 3.5    |
| 85°   | 13.9   | 17.4   | 20.9   | 20.9   | 24.4   | 31.4   | 24.4   | 17.4   | 7.0    | 3.5    | 3.5    |
| 87.5° | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 10.5   | 7.0    | 7.0    | 3.5    | 3.5    | 3.5    |
| 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)