

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: P457667

Luminaire Tested: **GLAN-SA9A-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38637 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 274  
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

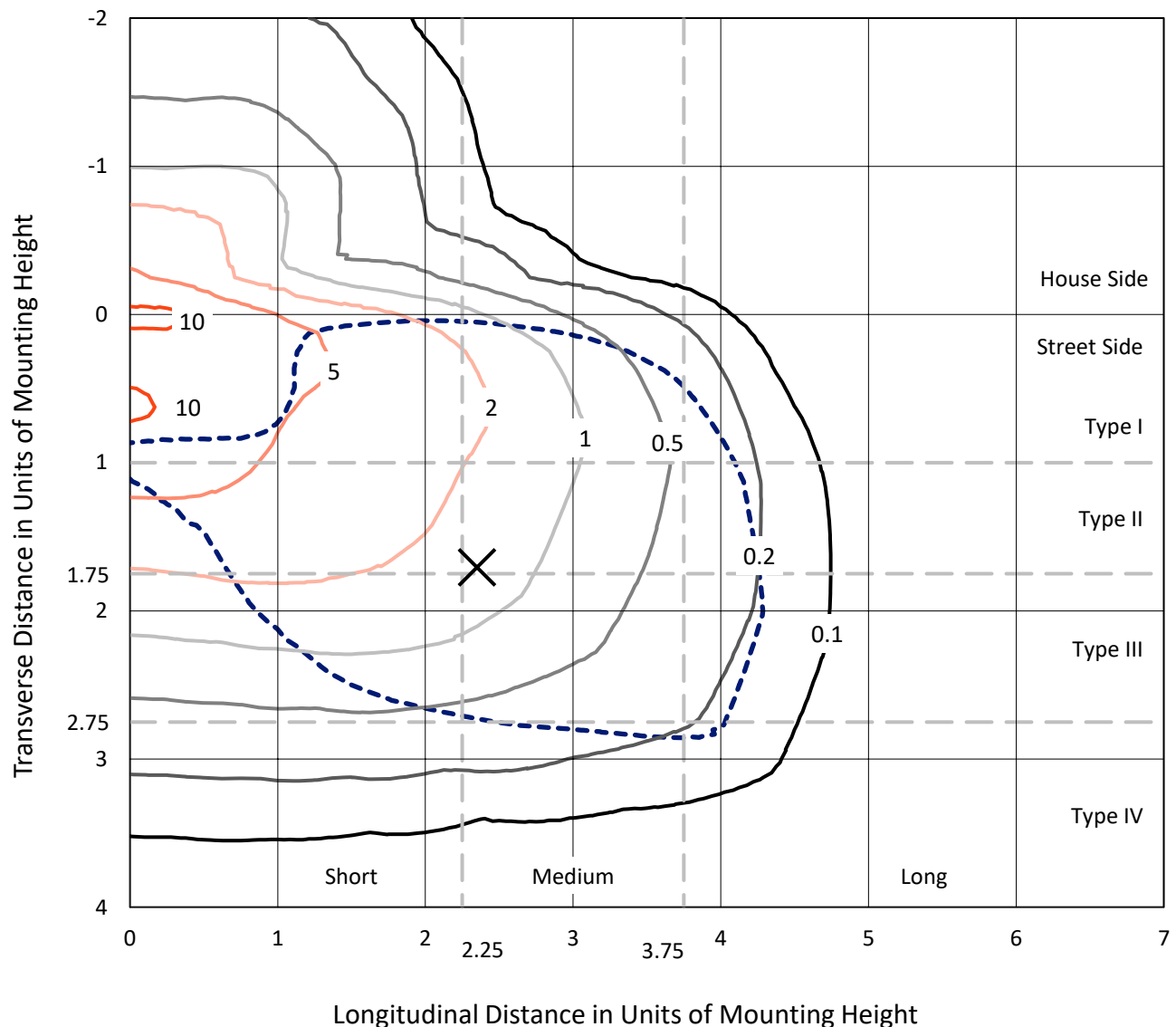


REPORT NUMBER: P457667

CATALOG NUMBER: GLAN-SA9A-730-U-T3R

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

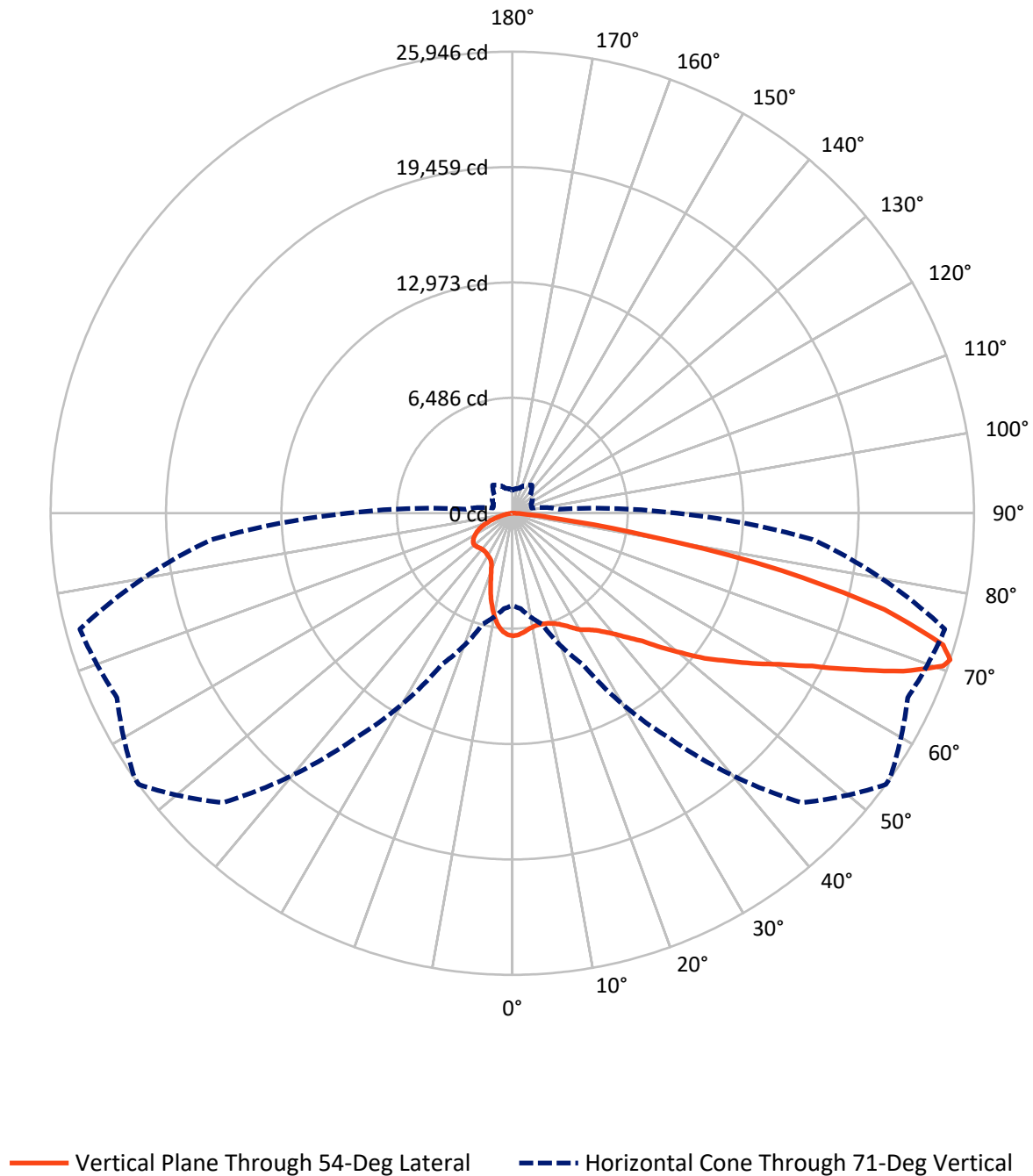


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P457667

CATALOG NUMBER: GLAN-SA9A-730-U-T3R

## Luminous Intensity Polar Plot



REPORT NUMBER: P457667

CATALOG NUMBER: GLAN-SA9A-730-U-T3R

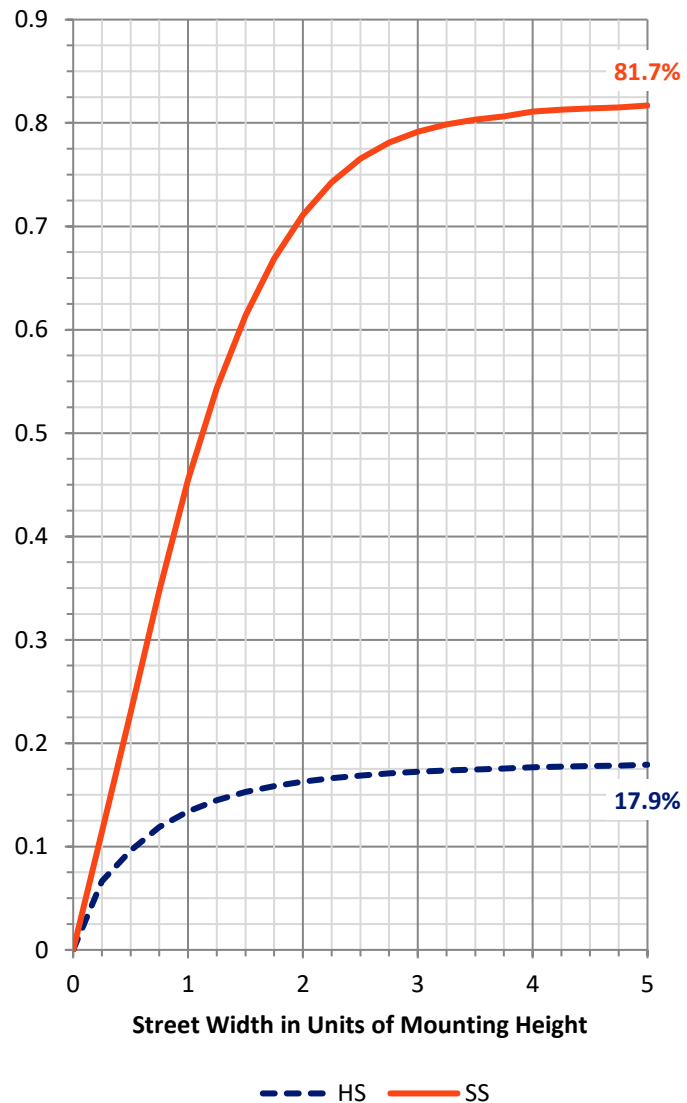
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6975.7   | 0.0    | 6975.7  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 31661.3  | 0.0    | 31661.3 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 38637.0  | 0.0    | 38637.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 614.3   | 1.6       |
| 10°-20°   | 1622.1  | 4.2       |
| 20°-30°   | 2700.8  | 7.0       |
| 30°-40°   | 3993.6  | 10.3      |
| 40°-50°   | 5625.2  | 14.6      |
| 50°-60°   | 7532.4  | 19.5      |
| 60°-70°   | 9494.0  | 24.6      |
| 70°-80°   | 6484.4  | 16.8      |
| 80°-90°   | 570.3   | 1.5       |
| 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°    | 38637.0 | 100.0     |
| 0°-180°   | 38637.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P457667

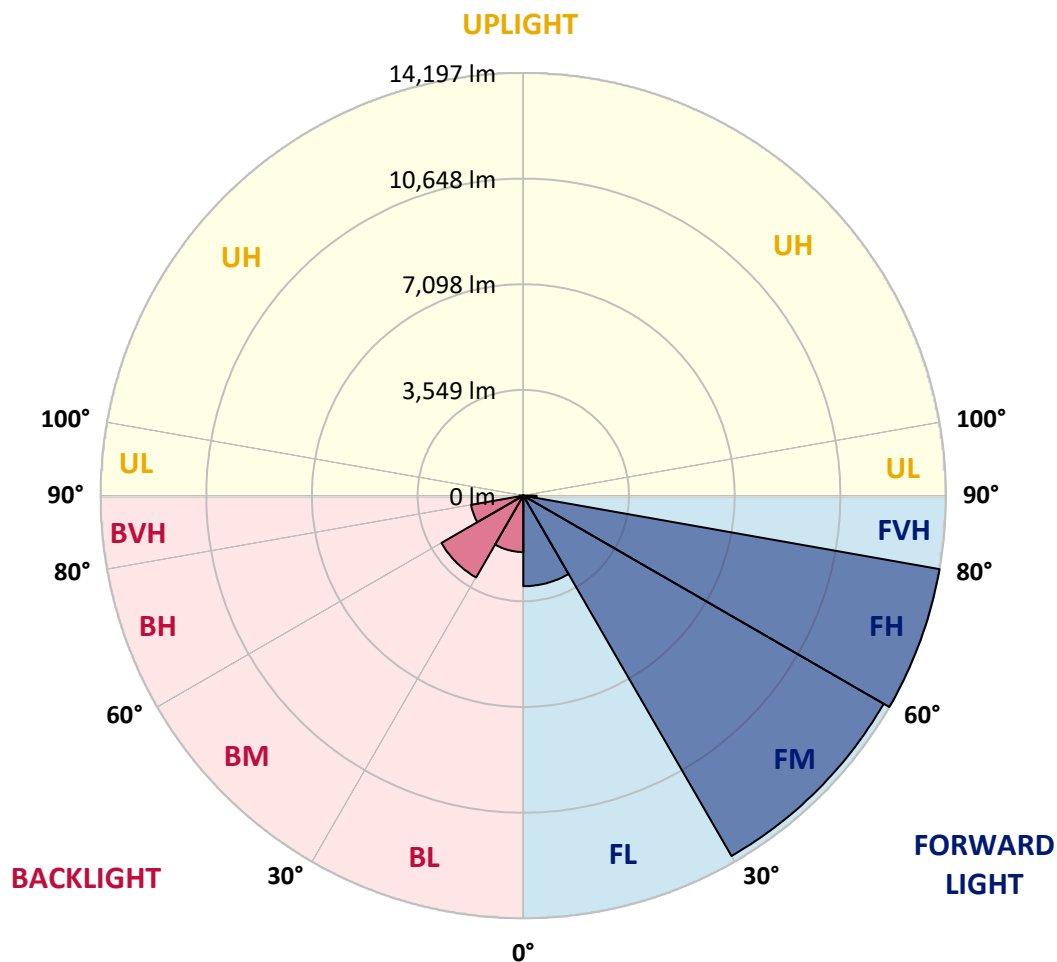
CATALOG NUMBER: GLAN-SA9A-730-U-T3R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3041.4  | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 13977.5 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 14196.8 | 36.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 445.7   | 1.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1895.9  | 4.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3173.7  | 8.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1781.6  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 124.5   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Medium





REPORT NUMBER: P457667

CATALOG NUMBER: GLAN-SA9A-730-U-T3R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  | 6893.4  |
| 2.5°  | 6659.7  | 6691.0  | 6699.3  | 6720.2  | 6764.0  | 6799.5  | 6835.0  | 6830.8  | 6880.9  | 6901.8  | 6920.5  |
| 5°    | 6363.3  | 6371.7  | 6403.0  | 6444.7  | 6521.9  | 6620.0  | 6716.0  | 6718.1  | 6841.2  | 6939.3  | 6987.3  |
| 7.5°  | 6146.3  | 6173.4  | 6194.3  | 6238.1  | 6319.5  | 6425.9  | 6578.3  | 6590.8  | 6809.9  | 7004.0  | 7106.3  |
| 10°   | 6004.3  | 6035.6  | 6058.6  | 6112.9  | 6194.3  | 6313.2  | 6478.1  | 6501.1  | 6787.0  | 7106.3  | 7285.8  |
| 12.5° | 5874.9  | 5906.3  | 5927.1  | 5998.1  | 6104.5  | 6250.6  | 6436.4  | 6463.5  | 6795.3  | 7225.2  | 7482.0  |
| 15°   | 5954.3  | 5979.3  | 5971.0  | 5991.8  | 6062.8  | 6229.7  | 6453.1  | 6480.2  | 6826.6  | 7340.0  | 7676.0  |
| 17.5° | 6307.0  | 6327.8  | 6259.0  | 6179.7  | 6146.3  | 6269.4  | 6505.2  | 6534.4  | 6889.2  | 7459.0  | 7874.3  |
| 20°   | 6826.6  | 6883.0  | 6732.7  | 6555.3  | 6394.6  | 6411.3  | 6613.8  | 6645.1  | 6976.9  | 7578.0  | 8076.8  |
| 22.5° | 7502.8  | 7544.6  | 7360.9  | 7068.7  | 6772.4  | 6620.0  | 6776.5  | 6795.3  | 7108.4  | 7732.4  | 8298.0  |
| 25°   | 8298.0  | 8323.0  | 8068.4  | 7692.7  | 7264.9  | 6976.9  | 6999.9  | 7033.2  | 7325.4  | 7907.7  | 8494.2  |
| 27.5° | 9070.2  | 9149.5  | 8855.2  | 8396.1  | 7832.6  | 7352.6  | 7306.6  | 7327.5  | 7561.3  | 8005.8  | 8629.8  |
| 30°   | 9986.4  | 9980.1  | 9669.1  | 9137.0  | 8414.8  | 7761.6  | 7596.7  | 7592.6  | 7688.6  | 8053.8  | 8727.9  |
| 32.5° | 10716.8 | 10802.4 | 10497.7 | 9917.5  | 9080.6  | 8185.3  | 7797.1  | 7788.7  | 7786.7  | 8137.3  | 8874.0  |
| 35°   | 11547.5 | 11560.0 | 11280.3 | 10696.0 | 9800.6  | 8717.5  | 8076.8  | 8035.0  | 7987.0  | 8316.8  | 9072.3  |
| 37.5° | 12290.4 | 12348.9 | 12092.2 | 11436.8 | 10508.1 | 9270.5  | 8460.8  | 8433.6  | 8287.5  | 8627.7  | 9389.5  |
| 40°   | 12870.6 | 12914.5 | 12760.0 | 12136.0 | 11205.2 | 9867.4  | 8949.1  | 8899.0  | 8721.6  | 9137.0  | 9813.1  |
| 42.5° | 13060.5 | 13150.3 | 13210.8 | 12904.0 | 12006.6 | 10574.9 | 9550.2  | 9487.6  | 9351.9  | 9909.2  | 10301.5 |
| 45°   | 13075.2 | 13217.1 | 13536.4 | 13551.0 | 12812.2 | 11422.2 | 10251.4 | 10207.6 | 10197.2 | 10898.4 | 10988.1 |
| 47.5° | 12964.5 | 13108.5 | 13644.9 | 13935.0 | 13530.1 | 12277.9 | 11263.6 | 11194.8 | 11201.0 | 12121.4 | 11758.2 |
| 50°   | 12697.4 | 12868.5 | 13519.7 | 14181.3 | 14091.5 | 13167.0 | 12332.2 | 12309.2 | 12438.6 | 13517.6 | 12557.6 |
| 52.5° | 12194.4 | 12401.0 | 13390.3 | 14335.7 | 14508.9 | 13932.9 | 13546.8 | 13482.1 | 13809.8 | 15032.8 | 13432.0 |
| 55°   | 10802.4 | 11113.4 | 12916.5 | 14421.3 | 14905.5 | 14665.5 | 14640.4 | 14757.3 | 15191.4 | 16685.7 | 14394.1 |
| 57.5° | 10076.1 | 10309.9 | 11887.6 | 14435.9 | 15406.3 | 15517.0 | 15917.7 | 15946.9 | 16706.6 | 18440.9 | 15481.5 |
| 60°   | 9679.6  | 9886.2  | 11324.1 | 14339.9 | 16105.5 | 16570.9 | 17224.1 | 17328.5 | 18186.3 | 20342.1 | 16608.5 |
| 62.5° | 9333.1  | 9510.5  | 10986.1 | 14008.0 | 16894.4 | 18134.1 | 18916.7 | 18966.8 | 19866.3 | 22441.7 | 17720.9 |
| 65°   | 8517.1  | 8719.6  | 10305.7 | 13676.2 | 17574.8 | 20087.5 | 21162.3 | 21103.9 | 21654.9 | 24253.2 | 18417.9 |
| 67.5° | 7417.3  | 7674.0  | 9034.7  | 12530.4 | 17910.8 | 22222.5 | 23691.8 | 23618.8 | 23420.5 | 25440.7 | 18618.3 |
| 70°   | 6012.7  | 6150.4  | 7408.9  | 10549.9 | 16568.8 | 23343.3 | 25689.1 | 25611.9 | 24514.1 | 25597.2 | 17670.8 |
| 71°   | 5173.7  | 5388.7  | 6451.0  | 9370.7  | 15452.3 | 23001.0 | 25945.8 | 25924.9 | 24516.2 | 25165.2 | 16957.0 |
| 72.5° | 4038.4  | 4169.9  | 5109.0  | 7260.7  | 13133.6 | 21055.9 | 25311.3 | 25390.6 | 23984.0 | 23965.2 | 15485.7 |
| 75°   | 2554.5  | 2612.9  | 3205.7  | 4274.2  | 7206.5  | 14911.7 | 21606.9 | 21821.8 | 21295.9 | 19615.9 | 11516.2 |
| 77.5° | 1483.9  | 1559.0  | 1920.1  | 2519.0  | 3113.8  | 8093.4  | 15460.6 | 15694.4 | 14796.9 | 10800.3 | 4714.6  |
| 80°   | 864.0   | 947.5   | 1264.7  | 1463.0  | 1429.6  | 3003.2  | 7872.2  | 8270.8  | 6407.1  | 2727.7  | 1323.2  |
| 82.5° | 480.0   | 536.4   | 889.1   | 891.2   | 761.8   | 980.9   | 2477.3  | 2592.1  | 1828.2  | 1099.9  | 540.5   |
| 85°   | 348.5   | 394.4   | 573.9   | 519.7   | 365.2   | 421.6   | 861.9   | 903.7   | 738.8   | 463.3   | 175.3   |
| 87.5° | 123.1   | 175.3   | 315.1   | 250.4   | 100.2   | 87.7    | 248.4   | 202.4   | 187.8   | 129.4   | 39.7    |
| 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: P457667

CATALOG NUMBER: GLAN-SA9A-730-U-T3R

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6893.4  | 6893.4 | 6893.4 | 6893.4 | 6893.4 | 6893.4 | 6893.4 | 6893.4 | 6893.4 | 6893.4 | 6893.4 |
| 2.5°  | 6931.0  | 6935.2 | 6914.3 | 6876.7 | 6839.2 | 6791.1 | 6736.9 | 6695.1 | 6676.4 | 6674.3 | 6672.2 |
| 5°    | 7006.1  | 7016.5 | 6937.2 | 6820.4 | 6691.0 | 6532.4 | 6396.7 | 6242.3 | 6202.6 | 6140.0 | 6158.8 |
| 7.5°  | 7127.2  | 7120.9 | 6964.4 | 6716.0 | 6413.4 | 6077.4 | 5793.6 | 5628.7 | 5457.5 | 5409.5 | 5411.6 |
| 10°   | 7300.4  | 7260.7 | 6964.4 | 6503.1 | 5998.1 | 5499.3 | 5102.8 | 4852.3 | 4716.7 | 4604.0 | 4562.2 |
| 12.5° | 7484.0  | 7383.9 | 6897.6 | 6204.7 | 5463.8 | 4852.3 | 4426.6 | 4088.5 | 4000.8 | 3909.0 | 3911.1 |
| 15°   | 7659.3  | 7492.4 | 6766.1 | 5785.2 | 4887.8 | 4161.5 | 3748.3 | 3545.8 | 3518.7 | 3529.1 | 3527.1 |
| 17.5° | 7818.0  | 7569.6 | 6565.8 | 5317.7 | 4215.8 | 3568.8 | 3349.7 | 3364.3 | 3437.3 | 3489.5 | 3495.8 |
| 20°   | 7978.7  | 7615.5 | 6267.3 | 4691.6 | 3581.3 | 3209.8 | 3218.2 | 3333.0 | 3443.6 | 3514.5 | 3525.0 |
| 22.5° | 8131.0  | 7636.4 | 5916.7 | 4086.4 | 3122.2 | 3057.5 | 3180.6 | 3303.7 | 3412.3 | 3481.1 | 3491.6 |
| 25°   | 8231.2  | 7588.4 | 5420.0 | 3454.0 | 2896.8 | 3003.2 | 3132.6 | 3237.0 | 3328.8 | 3399.7 | 3416.4 |
| 27.5° | 8258.3  | 7433.9 | 4804.3 | 2942.7 | 2792.4 | 2951.0 | 3070.0 | 3147.2 | 3218.2 | 3285.0 | 3297.5 |
| 30°   | 8243.7  | 7206.5 | 4128.1 | 2642.2 | 2731.9 | 2890.5 | 2982.3 | 3038.7 | 3124.3 | 3176.4 | 3186.9 |
| 32.5° | 8220.8  | 6941.4 | 3422.7 | 2481.5 | 2681.8 | 2834.2 | 2888.4 | 2938.5 | 2936.4 | 2915.6 | 2930.2 |
| 35°   | 8229.1  | 6624.2 | 2850.9 | 2385.5 | 2638.0 | 2792.4 | 2838.3 | 2775.7 | 2596.2 | 2587.9 | 2579.6 |
| 37.5° | 8272.9  | 6311.1 | 2435.5 | 2318.7 | 2615.0 | 2786.2 | 2811.2 | 2523.2 | 2364.6 | 2291.5 | 2272.8 |
| 40°   | 8385.6  | 5945.9 | 2162.1 | 2268.6 | 2612.9 | 2834.2 | 2688.1 | 2395.9 | 2091.2 | 1949.3 | 1938.8 |
| 42.5° | 8535.9  | 5586.9 | 1995.2 | 2237.3 | 2638.0 | 2907.2 | 2638.0 | 2216.4 | 1884.6 | 1801.1 | 1788.6 |
| 45°   | 8759.2  | 5175.8 | 1903.4 | 2222.7 | 2675.6 | 2934.3 | 2621.3 | 2084.9 | 1801.1 | 1734.3 | 1734.3 |
| 47.5° | 9011.7  | 4783.4 | 1853.3 | 2212.2 | 2723.6 | 2915.6 | 2473.1 | 2043.2 | 1761.4 | 1769.8 | 1809.4 |
| 50°   | 9262.2  | 4443.3 | 1815.7 | 2189.3 | 2765.3 | 2905.1 | 2412.6 | 2041.1 | 1771.9 | 1878.3 | 1949.3 |
| 52.5° | 9552.3  | 4203.2 | 1769.8 | 2151.7 | 2765.3 | 2838.3 | 2393.8 | 2082.8 | 1801.1 | 1832.4 | 1863.7 |
| 55°   | 9902.9  | 4128.1 | 1711.4 | 2070.3 | 2715.2 | 2671.4 | 2383.4 | 2143.4 | 1822.0 | 1748.9 | 1761.4 |
| 57.5° | 10366.2 | 4249.2 | 1655.0 | 1968.1 | 2600.4 | 2498.2 | 2379.2 | 2160.1 | 1774.0 | 1713.4 | 1700.9 |
| 60°   | 10904.7 | 4489.2 | 1638.3 | 1863.7 | 2443.9 | 2350.0 | 2354.2 | 2112.1 | 1707.2 | 1644.6 | 1655.0 |
| 62.5° | 11282.4 | 4633.2 | 1627.9 | 1784.4 | 2272.8 | 2187.2 | 2293.6 | 2053.6 | 1678.0 | 1623.7 | 1634.1 |
| 65°   | 11282.4 | 4457.9 | 1531.9 | 1663.4 | 2051.5 | 1991.0 | 2220.6 | 1980.6 | 1640.4 | 1577.8 | 1567.3 |
| 67.5° | 10854.6 | 3946.5 | 1385.8 | 1481.8 | 1807.4 | 1767.7 | 2118.3 | 1892.9 | 1584.0 | 1536.0 | 1511.0 |
| 70°   | 9740.1  | 2992.8 | 1202.1 | 1268.9 | 1498.5 | 1534.0 | 1986.8 | 1774.0 | 1490.1 | 1431.7 | 1394.1 |
| 71°   | 9249.7  | 2606.7 | 1124.9 | 1160.4 | 1379.5 | 1431.7 | 1924.2 | 1723.9 | 1448.4 | 1364.9 | 1298.1 |
| 72.5° | 8304.2  | 2195.5 | 1008.0 | 1022.6 | 1179.2 | 1273.1 | 1792.7 | 1627.9 | 1369.1 | 1250.1 | 1175.0 |
| 75°   | 6309.0  | 1602.8 | 811.8  | 803.5  | 872.4  | 1010.1 | 1517.3 | 1450.5 | 1200.0 | 1039.3 | 995.5  |
| 77.5° | 2725.6  | 872.4  | 607.3  | 613.6  | 592.7  | 765.9  | 1193.8 | 1245.9 | 1028.9 | 845.2  | 805.6  |
| 80°   | 826.5   | 503.0  | 415.3  | 423.7  | 396.5  | 513.4  | 841.1  | 976.7  | 826.5  | 657.4  | 603.1  |
| 82.5° | 423.7   | 300.5  | 283.8  | 279.7  | 252.5  | 290.1  | 509.2  | 667.8  | 590.6  | 411.1  | 363.1  |
| 85°   | 183.7   | 160.7  | 139.8  | 135.7  | 119.0  | 104.4  | 181.6  | 333.9  | 313.1  | 229.6  | 219.1  |
| 87.5° | 45.9    | 41.7   | 27.1   | 25.0   | 14.6   | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)