

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: P529346

Luminaire Tested: **GLAN-SA4C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4C-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22856 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 213  
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

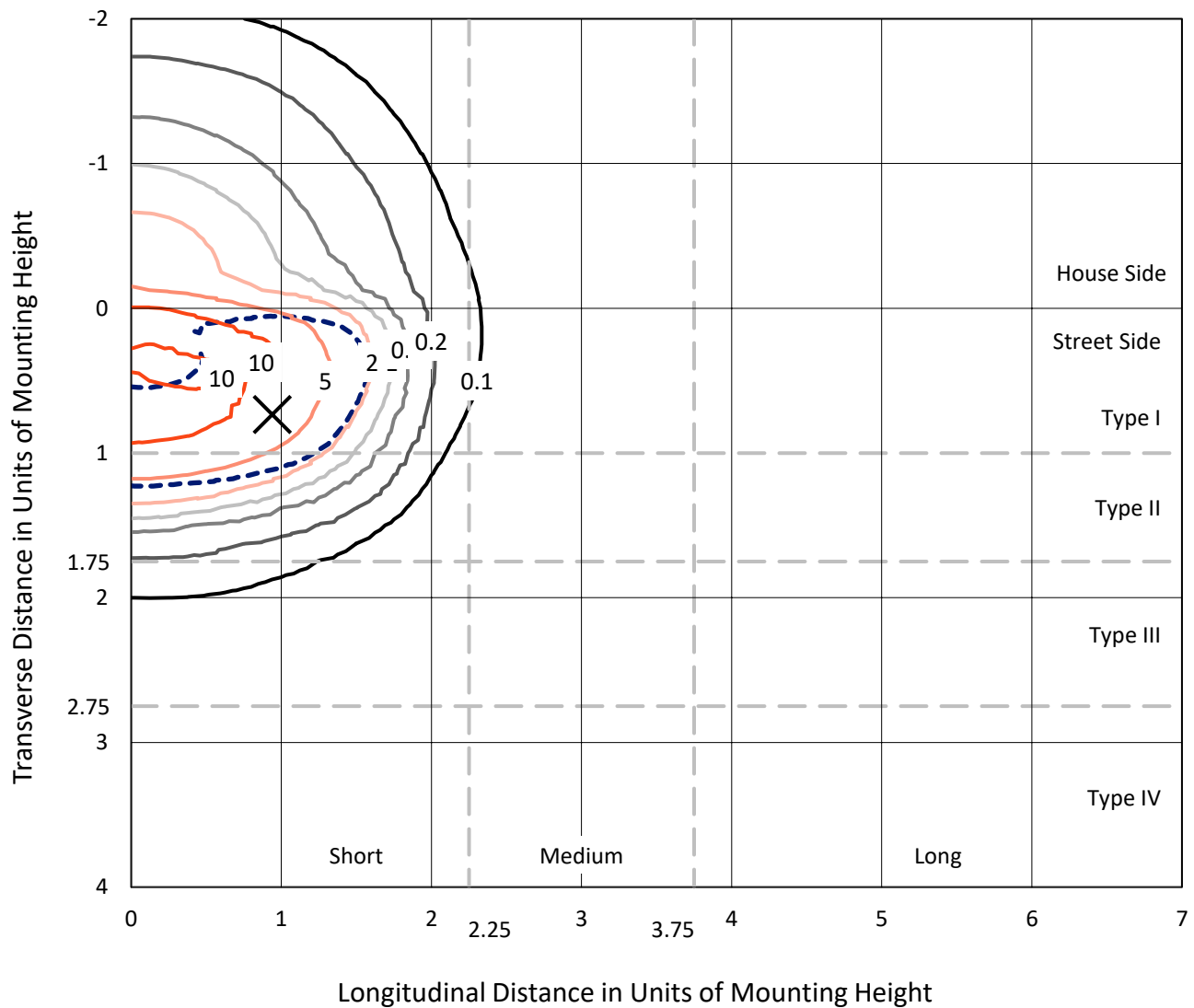


REPORT NUMBER: P529346

CATALOG NUMBER: GLAN-SA4C-730-U-AFL-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

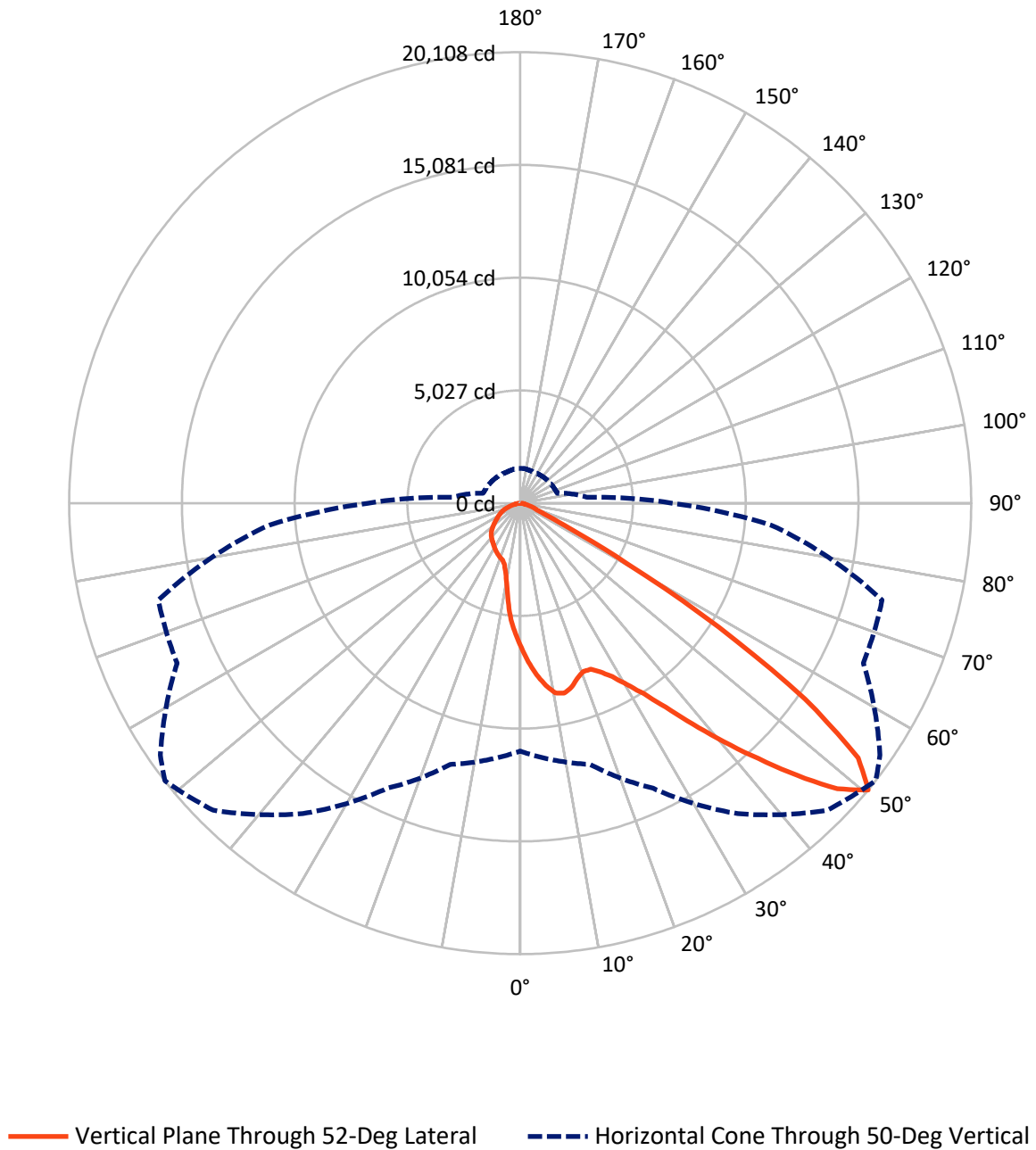


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P529346

CATALOG NUMBER: GLAN-SA4C-730-U-AFL-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P529346

CATALOG NUMBER: GLAN-SA4C-730-U-AFL-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4296.4   | 0.0    | 4296.4  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 18559.6  | 0.0    | 18559.6 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 22856.0  | 0.0    | 22856.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 593.8   | 2.6       |
| 10°-20°   | 1591.6  | 7.0       |
| 20°-30°   | 2681.0  | 11.7      |
| 30°-40°   | 4498.9  | 19.7      |
| 40°-50°   | 6882.2  | 30.1      |
| 50°-60°   | 5017.7  | 22.0      |
| 60°-70°   | 1116.7  | 4.9       |
| 70°-80°   | 402.8   | 1.8       |
| 80°-90°   | 71.3    | 0.3       |
| 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°    | 22856.0 | 100.0     |
| 0°-180°   | 22856.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P529346

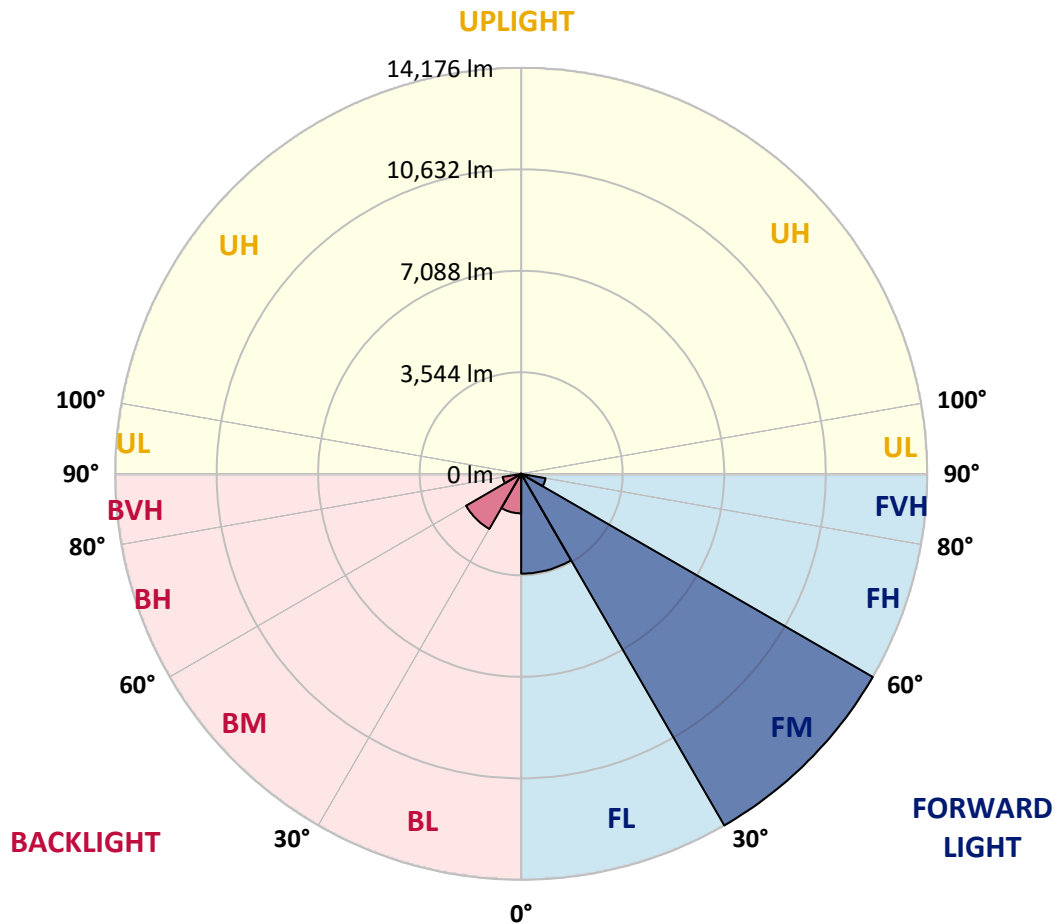
CATALOG NUMBER: GLAN-SA4C-730-U-AFL-GRSWH

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3486.3  | 15.3      |                         |      |         |
| FM   | (30°-60°)   | 14176.5 | 62.0      |                         |      |         |
| FH   | (60°-80°)   | 864.9   | 3.8       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 32.0    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1380.1  | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2222.4  | 9.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 654.6   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 39.4    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



REPORT NUMBER: P529346

CATALOG NUMBER: GLAN-SA4C-730-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  | 6442.7  |
| 2.5°  | 7585.8  | 7439.8  | 7456.4  | 7351.7  | 7238.8  | 7205.7  | 7090.0  | 6979.9  | 6897.2  | 6720.9  | 6558.4  |
| 5°    | 8291.0  | 8246.9  | 8180.8  | 8098.2  | 8012.8  | 7803.4  | 7685.0  | 7547.3  | 7244.3  | 6971.6  | 6701.6  |
| 7.5°  | 8392.9  | 8384.6  | 8420.4  | 8420.4  | 8450.7  | 8370.9  | 8202.8  | 8106.4  | 7784.2  | 7340.7  | 6839.4  |
| 10°   | 7676.7  | 7701.5  | 7875.1  | 8100.9  | 8414.9  | 8632.5  | 8605.0  | 8580.2  | 8227.6  | 7621.6  | 7001.9  |
| 12.5° | 7106.6  | 7051.5  | 7153.4  | 7346.2  | 7817.2  | 8343.3  | 8698.6  | 8701.4  | 8610.5  | 8070.6  | 7120.3  |
| 15°   | 6784.3  | 6822.8  | 6850.4  | 6941.3  | 7296.6  | 7905.4  | 8530.6  | 8715.2  | 9114.6  | 8387.4  | 7307.6  |
| 17.5° | 6990.9  | 6861.4  | 6855.9  | 6877.9  | 7059.7  | 7517.0  | 8219.4  | 8536.1  | 9390.0  | 8795.1  | 7539.0  |
| 20°   | 7260.8  | 7258.1  | 7180.9  | 7153.4  | 7150.6  | 7558.3  | 8015.5  | 8445.2  | 9536.0  | 9323.9  | 7773.1  |
| 22.5° | 7734.6  | 7734.6  | 7607.9  | 7547.3  | 7417.8  | 7751.1  | 8043.1  | 8335.1  | 9778.4  | 9687.5  | 7886.1  |
| 25°   | 8527.9  | 8398.4  | 8180.8  | 8032.1  | 7957.7  | 8076.1  | 8335.1  | 8596.7  | 9990.5  | 10073.1 | 8120.2  |
| 27.5° | 9260.6  | 9056.7  | 8949.3  | 8693.1  | 8594.0  | 8525.1  | 8762.0  | 9026.4  | 10238.4 | 10673.6 | 8246.9  |
| 30°   | 10092.4 | 10056.6 | 9863.8  | 9533.3  | 9288.1  | 9161.4  | 9379.0  | 9640.7  | 10692.9 | 11287.9 | 8538.9  |
| 32.5° | 11579.8 | 11254.8 | 10993.1 | 10588.2 | 10188.8 | 9918.9  | 10133.7 | 10307.3 | 11447.6 | 11929.7 | 8858.4  |
| 35°   | 13185.7 | 13081.0 | 12629.3 | 11899.4 | 11287.9 | 11045.5 | 11172.2 | 11301.6 | 12326.3 | 12910.2 | 9395.5  |
| 37.5° | 14764.0 | 14620.8 | 14248.9 | 13634.7 | 12891.0 | 12397.9 | 12488.8 | 12640.3 | 13312.4 | 14232.4 | 10051.1 |
| 40°   | 15898.9 | 15722.6 | 15535.3 | 15444.4 | 14706.2 | 14031.3 | 13979.0 | 14017.5 | 14645.6 | 15471.9 | 10778.3 |
| 42.5° | 15981.5 | 16199.1 | 16256.9 | 16623.3 | 16449.8 | 15896.1 | 15573.8 | 15582.1 | 15918.1 | 16697.7 | 11513.7 |
| 45°   | 15808.0 | 15606.9 | 16033.8 | 17033.7 | 17606.6 | 17865.6 | 17322.9 | 17254.1 | 16705.9 | 17408.3 | 11880.1 |
| 47.5° | 13987.2 | 14042.3 | 14764.0 | 16345.1 | 18000.5 | 19157.4 | 19030.7 | 18802.1 | 17127.4 | 17383.5 | 11822.2 |
| 50°   | 11056.5 | 11389.8 | 12059.1 | 14028.6 | 16898.7 | 19361.2 | 20107.7 | 19578.8 | 16876.7 | 16700.4 | 11232.8 |
| 52.5° | 7362.7  | 7500.4  | 7941.2  | 10483.5 | 13587.8 | 17306.4 | 18868.2 | 18989.4 | 16645.3 | 15805.2 | 10486.3 |
| 55°   | 3277.8  | 3266.8  | 3886.6  | 5475.9  | 8525.1  | 13169.2 | 15416.8 | 16155.0 | 15755.6 | 14893.5 | 9759.1  |
| 57.5° | 1388.3  | 1435.1  | 1688.5  | 2366.1  | 4192.3  | 7946.7  | 10445.0 | 11092.3 | 12117.0 | 12229.9 | 7486.7  |
| 60°   | 939.3   | 944.8   | 1013.6  | 1184.4  | 1754.6  | 3732.3  | 5478.7  | 6255.4  | 6988.1  | 6938.5  | 3972.0  |
| 62.5° | 738.2   | 757.5   | 809.8   | 878.7   | 1041.2  | 1694.0  | 2451.5  | 2883.9  | 2930.8  | 2465.3  | 1506.7  |
| 65°   | 630.8   | 633.5   | 685.9   | 743.7   | 815.3   | 986.1   | 1181.7  | 1203.7  | 1217.5  | 1173.4  | 1107.3  |
| 67.5° | 520.6   | 526.1   | 567.4   | 633.5   | 699.6   | 754.7   | 809.8   | 837.4   | 900.7   | 1024.7  | 1008.1  |
| 70°   | 413.2   | 421.4   | 457.2   | 512.3   | 572.9   | 606.0   | 674.8   | 699.6   | 757.5   | 853.9   | 892.5   |
| 72.5° | 314.0   | 316.8   | 347.1   | 385.6   | 440.7   | 473.8   | 531.6   | 559.2   | 597.7   | 680.4   | 716.2   |
| 75°   | 225.9   | 234.1   | 256.2   | 275.4   | 283.7   | 305.7   | 360.8   | 391.1   | 446.2   | 482.0   | 484.8   |
| 77.5° | 118.4   | 124.0   | 129.5   | 129.5   | 157.0   | 198.3   | 234.1   | 250.7   | 289.2   | 316.8   | 303.0   |
| 80°   | 46.8    | 49.6    | 63.4    | 85.4    | 110.2   | 143.2   | 168.0   | 176.3   | 209.3   | 225.9   | 234.1   |
| 82.5° | 27.5    | 30.3    | 41.3    | 60.6    | 79.9    | 101.9   | 121.2   | 129.5   | 151.5   | 170.8   | 176.3   |
| 85°   | 13.8    | 16.5    | 24.8    | 38.6    | 52.3    | 63.4    | 60.6    | 57.8    | 57.8    | 55.1    | 57.8    |
| 87.5° | 5.5     | 5.5     | 8.3     | 8.3     | 8.3     | 11.0    | 13.8    | 13.8    | 13.8    | 16.5    | 16.5    |
| 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: P529346

CATALOG NUMBER: GLAN-SA4C-730-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 | 6442.7 |
| 2.5°  | 6451.0 | 6340.8 | 6238.9 | 6051.6 | 5847.8 | 5789.9 | 5553.0 | 5467.6 | 5407.0 | 5335.4 | 5313.4 |
| 5°    | 6484.0 | 6338.1 | 6010.3 | 5632.9 | 5332.7 | 4947.0 | 4693.6 | 4420.9 | 4222.6 | 4173.0 | 4159.3 |
| 7.5°  | 6552.9 | 6302.2 | 5737.6 | 5167.4 | 4553.2 | 4029.8 | 3630.4 | 3415.6 | 3225.5 | 3214.5 | 3195.2 |
| 10°   | 6630.0 | 6194.8 | 5440.1 | 4544.9 | 3759.9 | 3275.1 | 3035.4 | 2941.8 | 2895.0 | 2883.9 | 2878.4 |
| 12.5° | 6693.4 | 6172.8 | 5106.8 | 3938.9 | 3198.0 | 2906.0 | 2834.4 | 2826.1 | 2845.4 | 2850.9 | 2861.9 |
| 15°   | 6720.9 | 6084.6 | 4704.7 | 3396.3 | 2848.1 | 2740.7 | 2771.0 | 2804.1 | 2817.8 | 2853.6 | 2826.1 |
| 17.5° | 6773.3 | 5971.7 | 4208.8 | 2966.6 | 2652.6 | 2671.8 | 2724.2 | 2762.7 | 2784.8 | 2809.6 | 2773.8 |
| 20°   | 6800.8 | 5869.8 | 3743.3 | 2710.4 | 2583.7 | 2619.5 | 2691.1 | 2721.4 | 2749.0 | 2760.0 | 2718.7 |
| 22.5° | 6776.0 | 5660.5 | 3332.9 | 2503.8 | 2517.6 | 2564.4 | 2627.8 | 2660.8 | 2644.3 | 2600.2 | 2575.4 |
| 25°   | 6709.9 | 5365.7 | 2906.0 | 2371.6 | 2423.9 | 2506.6 | 2556.2 | 2531.4 | 2501.1 | 2476.3 | 2468.0 |
| 27.5° | 6707.2 | 5004.9 | 2597.5 | 2250.4 | 2344.1 | 2457.0 | 2440.5 | 2418.4 | 2432.2 | 2412.9 | 2390.9 |
| 30°   | 6720.9 | 4655.1 | 2344.1 | 2181.5 | 2286.2 | 2341.3 | 2360.6 | 2338.6 | 2355.1 | 2319.3 | 2330.3 |
| 32.5° | 6649.3 | 4313.5 | 2178.8 | 2101.7 | 2217.4 | 2214.6 | 2278.0 | 2294.5 | 2255.9 | 2181.5 | 2192.6 |
| 35°   | 6679.6 | 4038.1 | 2038.3 | 2065.9 | 2140.2 | 2140.2 | 2189.8 | 2170.5 | 2068.6 | 2024.5 | 2035.6 |
| 37.5° | 6889.0 | 3768.1 | 1969.5 | 2016.3 | 2065.9 | 2087.9 | 2071.4 | 1988.7 | 1963.9 | 1963.9 | 1969.5 |
| 40°   | 7087.3 | 3536.8 | 1928.1 | 2005.3 | 1997.0 | 2010.8 | 1889.6 | 1897.8 | 1897.8 | 1900.6 | 1886.8 |
| 42.5° | 7263.6 | 3379.7 | 1895.1 | 1939.2 | 1952.9 | 1881.3 | 1806.9 | 1798.7 | 1818.0 | 1815.2 | 1804.2 |
| 45°   | 7326.9 | 3250.3 | 1848.3 | 1864.8 | 1875.8 | 1757.4 | 1721.5 | 1705.0 | 1727.1 | 1735.3 | 1746.3 |
| 47.5° | 7084.5 | 3142.9 | 1795.9 | 1762.9 | 1740.8 | 1663.7 | 1616.9 | 1586.6 | 1614.1 | 1661.0 | 1672.0 |
| 50°   | 6773.3 | 3002.4 | 1713.3 | 1649.9 | 1603.1 | 1570.1 | 1537.0 | 1506.7 | 1526.0 | 1559.0 | 1550.8 |
| 52.5° | 6313.3 | 2782.0 | 1608.6 | 1542.5 | 1462.6 | 1470.9 | 1440.6 | 1424.1 | 1435.1 | 1435.1 | 1426.8 |
| 55°   | 5657.7 | 2286.2 | 1432.3 | 1385.5 | 1319.4 | 1341.4 | 1346.9 | 1324.9 | 1302.9 | 1322.2 | 1305.6 |
| 57.5° | 3861.8 | 1614.1 | 1278.1 | 1278.1 | 1212.0 | 1242.3 | 1239.5 | 1187.2 | 1134.8 | 1140.4 | 1129.3 |
| 60°   | 2233.9 | 1286.3 | 1178.9 | 1167.9 | 1099.0 | 1123.8 | 1129.3 | 1093.5 | 1013.6 | 1019.2 | 1008.1 |
| 62.5° | 1269.8 | 1099.0 | 1030.2 | 1013.6 | 999.9  | 1021.9 | 1021.9 | 975.1  | 906.2  | 911.7  | 900.7  |
| 65°   | 1079.8 | 1019.2 | 920.0  | 917.2  | 911.7  | 917.2  | 895.2  | 845.6  | 785.0  | 760.2  | 763.0  |
| 67.5° | 980.6  | 942.0  | 845.6  | 820.8  | 804.3  | 801.6  | 760.2  | 713.4  | 685.9  | 663.8  | 661.1  |
| 70°   | 859.4  | 829.1  | 757.5  | 724.4  | 707.9  | 669.3  | 628.0  | 597.7  | 559.2  | 548.1  | 559.2  |
| 72.5° | 680.4  | 677.6  | 650.1  | 614.2  | 578.4  | 548.1  | 512.3  | 471.0  | 435.2  | 426.9  | 407.7  |
| 75°   | 471.0  | 476.5  | 482.0  | 476.5  | 446.2  | 407.7  | 366.3  | 333.3  | 289.2  | 264.4  | 258.9  |
| 77.5° | 308.5  | 316.8  | 325.0  | 314.0  | 294.7  | 258.9  | 231.4  | 190.1  | 157.0  | 137.7  | 135.0  |
| 80°   | 225.9  | 236.9  | 242.4  | 234.1  | 212.1  | 184.6  | 154.3  | 121.2  | 96.4   | 79.9   | 79.9   |
| 82.5° | 173.5  | 184.6  | 190.1  | 176.3  | 154.3  | 132.2  | 110.2  | 85.4   | 66.1   | 52.3   | 49.6   |
| 85°   | 60.6   | 57.8   | 68.9   | 71.6   | 85.4   | 79.9   | 66.1   | 49.6   | 38.6   | 27.5   | 24.8   |
| 87.5° | 16.5   | 16.5   | 19.3   | 19.3   | 16.5   | 13.8   | 13.8   | 13.8   | 11.0   | 8.3    | 8.3    |
| 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)