

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: P531830

Luminaire Tested: **GLAN-SA7A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P531830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-827-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20576 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

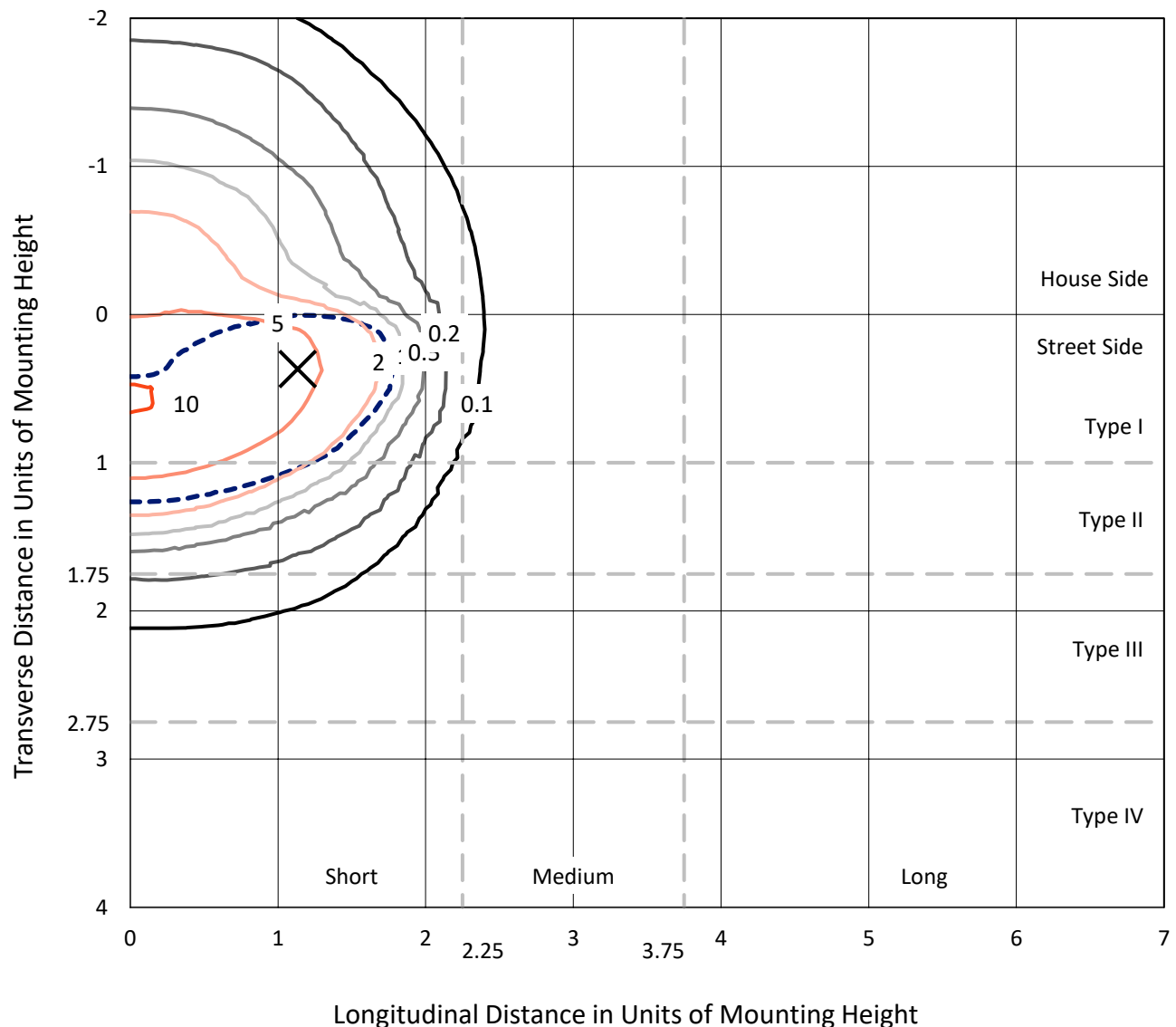
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P531830  
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## Iso-Footcandle Lines of Horizontal Illumination

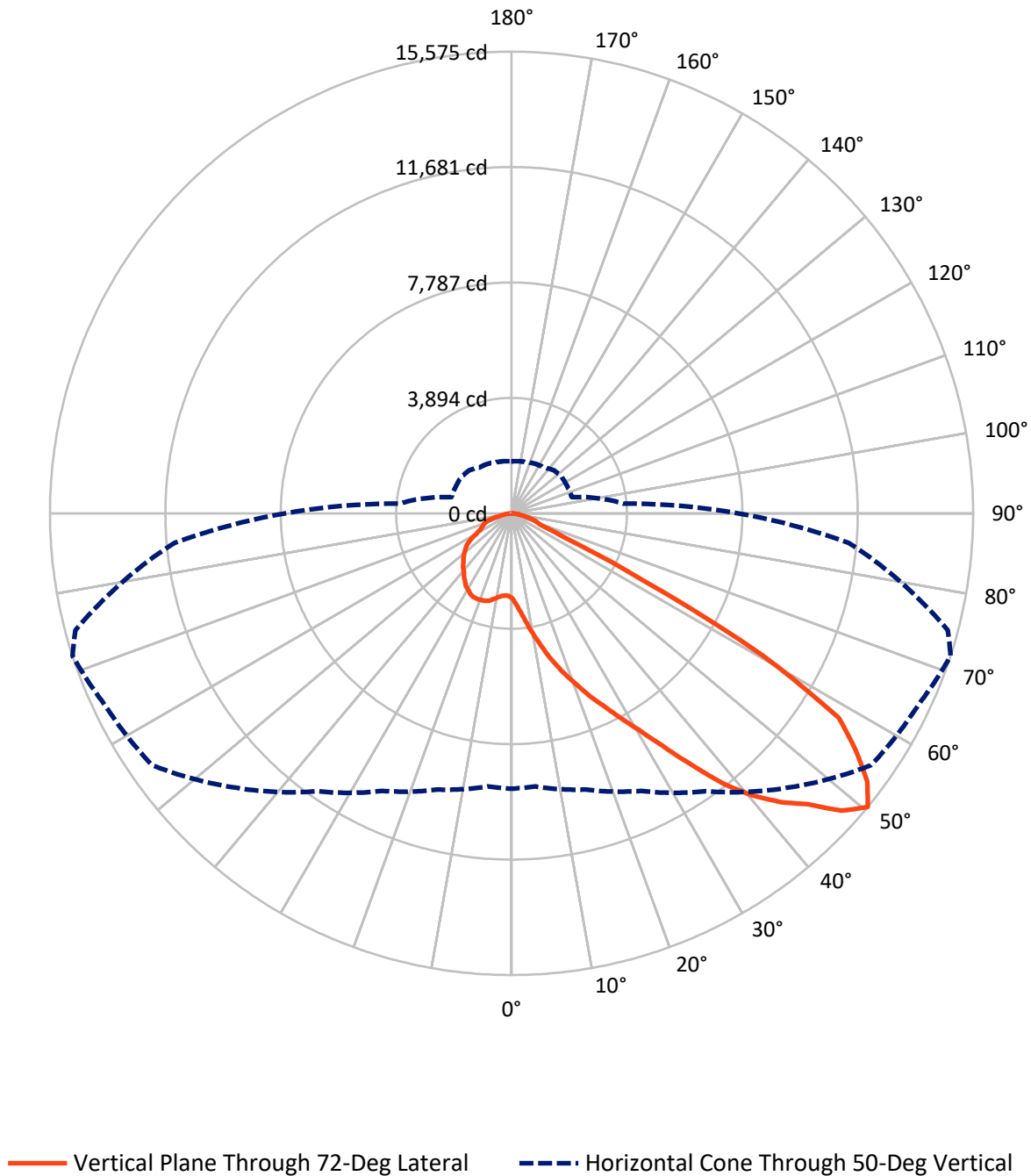
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P531830  
CATALOG NUMBER: GLAN-SA7A-827-U-T2R-GRSWH

## Luminous Intensity Polar Plot



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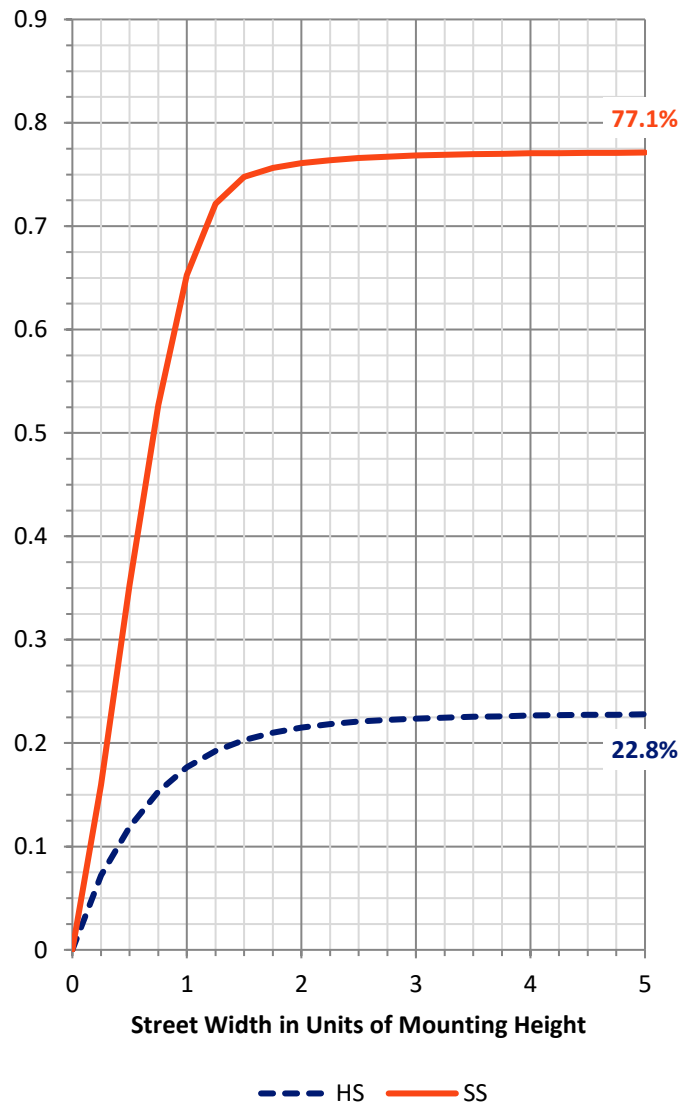
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4714.1   | 0.0    | 4714.1  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 15861.9  | 0.0    | 15861.9 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 20576.0  | 0.0    | 20576.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 336.9   | 1.6       |
| 10°-20°   | 1259.5  | 6.1       |
| 20°-30°   | 2442.1  | 11.9      |
| 30°-40°   | 4045.8  | 19.7      |
| 40°-50°   | 5660.9  | 27.5      |
| 50°-60°   | 4775.7  | 23.2      |
| 60°-70°   | 1455.6  | 7.1       |
| 70°-80°   | 510.7   | 2.5       |
| 80°-90°   | 88.8    | 0.4       |
| 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°    | 20576.0 | 100.0     |
| 0°-180°   | 20576.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P531830

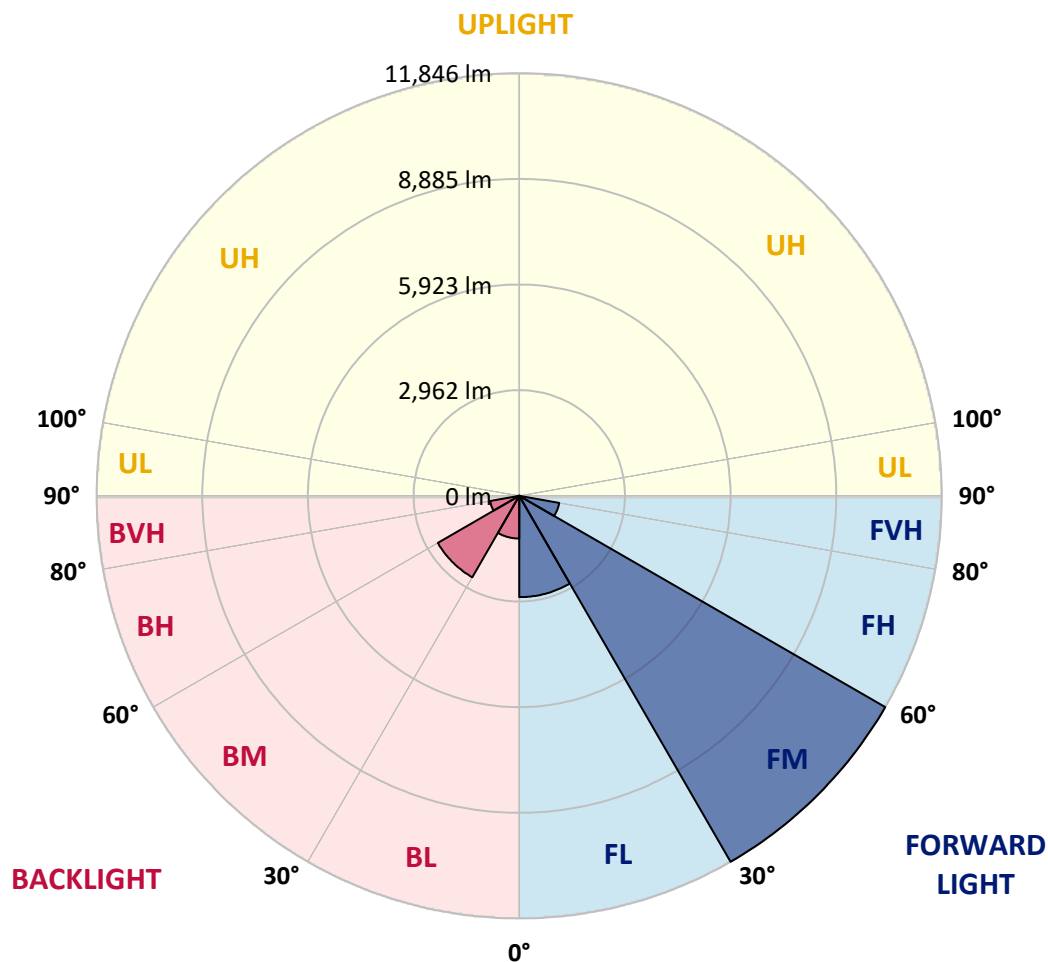
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2840.2  | 13.8      |                         |      |         |
| FM   | (30°-60°)   | 11846.2 | 57.6      |                         |      |         |
| FH   | (60°-80°)   | 1135.8  | 5.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 39.8    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1198.3  | 5.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2636.2  | 12.8      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 830.5   | 4.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 49.0    | 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: P531830

CATALOG NUMBER: GLAN-SA7A-827-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  | 2864.4  |
| 2.5°  | 3684.2  | 3661.3  | 3592.5  | 3569.6  | 3488.1  | 3340.5  | 3289.6  | 3139.3  | 3075.7  | 3017.1  | 2948.4  |
| 5°    | 4659.4  | 4552.4  | 4544.8  | 4414.9  | 4226.5  | 4117.0  | 3791.1  | 3572.2  | 3371.0  | 3269.2  | 3080.8  |
| 7.5°  | 5280.6  | 5283.1  | 5283.1  | 5176.2  | 5026.0  | 4748.5  | 4455.7  | 4061.0  | 3758.0  | 3607.8  | 3287.0  |
| 10°   | 5871.3  | 5820.4  | 5792.4  | 5782.2  | 5680.3  | 5410.4  | 5097.3  | 4608.4  | 4193.4  | 4017.7  | 3442.3  |
| 12.5° | 6288.8  | 6245.6  | 6309.2  | 6276.1  | 6202.3  | 6026.6  | 5731.3  | 5173.7  | 4654.3  | 4417.5  | 3691.8  |
| 15°   | 6487.4  | 6518.0  | 6568.9  | 6660.6  | 6627.5  | 6561.3  | 6235.4  | 5754.2  | 5150.7  | 4883.4  | 3913.3  |
| 17.5° | 6793.0  | 6709.0  | 6770.1  | 6884.6  | 6976.3  | 6945.7  | 6759.9  | 6174.3  | 5642.1  | 5313.7  | 4211.2  |
| 20°   | 7006.8  | 6958.5  | 6989.0  | 7121.4  | 7190.2  | 7363.3  | 7266.5  | 6724.2  | 6113.2  | 5766.9  | 4562.6  |
| 22.5° | 7617.9  | 7546.6  | 7447.3  | 7467.7  | 7493.2  | 7615.4  | 7638.3  | 7327.7  | 6660.6  | 6293.9  | 4896.1  |
| 25°   | 8371.6  | 8305.4  | 8188.2  | 8068.6  | 7994.7  | 7971.8  | 8050.7  | 7801.2  | 7185.1  | 6805.7  | 5255.1  |
| 27.5° | 9201.6  | 9089.6  | 9015.7  | 8768.7  | 8570.1  | 8539.6  | 8501.4  | 8366.5  | 7806.3  | 7396.4  | 5660.0  |
| 30°   | 10008.7 | 9919.6  | 9820.3  | 9425.6  | 9219.4  | 9186.3  | 8997.9  | 9036.1  | 8481.0  | 8025.3  | 6118.3  |
| 32.5° | 10619.8 | 10627.4 | 10400.8 | 10102.9 | 9909.4  | 9733.7  | 9665.0  | 9774.5  | 9346.7  | 8980.1  | 6630.0  |
| 35°   | 11113.7 | 11136.6 | 10920.2 | 10650.3 | 10441.5 | 10563.7 | 10533.2 | 10584.1 | 10380.4 | 9932.3  | 7225.8  |
| 37.5° | 11594.9 | 11480.3 | 11248.6 | 11118.8 | 11009.3 | 11210.4 | 11470.1 | 11513.4 | 11551.6 | 11024.6 | 7918.3  |
| 40°   | 11673.8 | 11684.0 | 11549.1 | 11640.7 | 11503.2 | 11806.2 | 12409.7 | 12353.6 | 12509.0 | 12048.1 | 8669.4  |
| 42.5° | 11561.8 | 11584.7 | 11638.2 | 11768.0 | 12099.0 | 12463.1 | 13359.4 | 13130.2 | 13318.6 | 12908.7 | 9400.2  |
| 45°   | 11378.5 | 11284.3 | 11350.5 | 11844.4 | 12417.3 | 13227.0 | 14227.6 | 14049.3 | 13988.2 | 13644.5 | 10270.9 |
| 47.5° | 10502.6 | 10599.4 | 10805.6 | 11414.1 | 12274.7 | 13359.4 | 14843.7 | 14803.0 | 14986.3 | 14744.4 | 11062.8 |
| 50°   | 9288.1  | 9250.0  | 9647.1  | 10332.0 | 11442.1 | 13099.6 | 14810.6 | 15179.8 | 15574.5 | 15238.4 | 11416.7 |
| 52.5° | 6955.9  | 7159.6  | 7500.8  | 8351.2  | 9934.9  | 11684.0 | 14087.5 | 14703.7 | 15024.5 | 14953.2 | 11131.5 |
| 55°   | 4397.1  | 4458.2  | 4664.4  | 5675.2  | 7101.1  | 9377.3  | 12076.1 | 13504.5 | 14077.3 | 14344.7 | 10869.3 |
| 57.5° | 2136.2  | 2021.6  | 2273.7  | 3085.9  | 4101.8  | 6306.7  | 9313.6  | 11762.9 | 13008.0 | 13491.7 | 10298.9 |
| 60°   | 1115.2  | 1158.5  | 1257.8  | 1548.0  | 2120.9  | 3274.3  | 5805.1  | 7839.4  | 9741.4  | 10484.8 | 7806.3  |
| 62.5° | 924.2   | 939.5   | 1005.7  | 1150.8  | 1410.5  | 1884.1  | 2963.7  | 3821.7  | 4967.4  | 5637.0  | 4440.4  |
| 65°   | 784.2   | 791.8   | 863.1   | 959.9   | 1125.4  | 1326.5  | 1525.1  | 1596.4  | 1932.5  | 1983.4  | 1578.6  |
| 67.5° | 654.3   | 662.0   | 738.4   | 830.0   | 937.0   | 990.4   | 1041.4  | 1036.3  | 1074.5  | 1059.2  | 1056.6  |
| 70°   | 504.1   | 511.8   | 590.7   | 687.4   | 740.9   | 710.4   | 868.2   | 903.9   | 919.1   | 931.9   | 952.2   |
| 72.5° | 364.1   | 379.4   | 440.5   | 509.2   | 481.2   | 552.5   | 715.5   | 768.9   | 789.3   | 796.9   | 822.4   |
| 75°   | 264.8   | 269.9   | 285.2   | 264.8   | 305.5   | 384.5   | 504.1   | 570.3   | 595.8   | 603.4   | 641.6   |
| 77.5° | 117.1   | 119.7   | 122.2   | 152.8   | 196.0   | 239.3   | 300.4   | 353.9   | 389.6   | 399.7   | 409.9   |
| 80°   | 61.1    | 63.7    | 78.9    | 104.4   | 140.0   | 175.7   | 219.0   | 249.5   | 272.4   | 275.0   | 285.2   |
| 82.5° | 38.2    | 40.7    | 56.0    | 73.8    | 99.3    | 129.9   | 160.4   | 185.9   | 203.7   | 206.2   | 208.8   |
| 85°   | 17.8    | 22.9    | 33.1    | 45.8    | 66.2    | 84.0    | 86.6    | 73.8    | 78.9    | 81.5    | 76.4    |
| 87.5° | 5.1     | 7.6     | 10.2    | 7.6     | 10.2    | 10.2    | 12.7    | 15.3    | 15.3    | 15.3    | 17.8    |
| 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: P531830

CATALOG NUMBER: GLAN-SA7A-827-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 | 2864.4 |
| 2.5°  | 2910.2 | 2887.3 | 2798.2 | 2765.1 | 2678.5 | 2693.8 | 2647.9 | 2645.4 | 2635.2 | 2632.7 | 2630.1 |
| 5°    | 2981.5 | 2910.2 | 2803.2 | 2721.8 | 2673.4 | 2668.3 | 2635.2 | 2635.2 | 2645.4 | 2653.0 | 2635.2 |
| 7.5°  | 3098.6 | 3017.1 | 2836.3 | 2760.0 | 2716.7 | 2709.0 | 2686.1 | 2668.3 | 2691.2 | 2683.6 | 2663.2 |
| 10°   | 3233.5 | 3091.0 | 2900.0 | 2833.8 | 2762.5 | 2744.7 | 2744.7 | 2752.3 | 2714.1 | 2726.9 | 2706.5 |
| 12.5° | 3383.8 | 3192.8 | 2981.5 | 2905.1 | 2821.1 | 2810.9 | 2805.8 | 2749.8 | 2770.1 | 2760.0 | 2709.0 |
| 15°   | 3574.7 | 3309.9 | 3085.9 | 2956.0 | 2884.7 | 2838.9 | 2772.7 | 2762.5 | 2749.8 | 2724.3 | 2701.4 |
| 17.5° | 3780.9 | 3437.2 | 3134.2 | 2971.3 | 2864.4 | 2831.3 | 2780.3 | 2726.9 | 2688.7 | 2693.8 | 2675.9 |
| 20°   | 3956.6 | 3554.3 | 3152.1 | 2986.6 | 2849.1 | 2785.4 | 2706.5 | 2673.4 | 2632.7 | 2630.1 | 2627.6 |
| 22.5° | 4165.4 | 3712.2 | 3177.5 | 2945.8 | 2803.2 | 2737.1 | 2683.6 | 2625.0 | 2597.0 | 2561.4 | 2579.2 |
| 25°   | 4414.9 | 3773.3 | 3182.6 | 2922.9 | 2770.1 | 2653.0 | 2625.0 | 2561.4 | 2551.2 | 2500.3 | 2510.4 |
| 27.5° | 4595.7 | 3806.4 | 3141.9 | 2851.6 | 2693.8 | 2604.7 | 2553.7 | 2507.9 | 2490.1 | 2451.9 | 2441.7 |
| 30°   | 4837.6 | 3857.3 | 3055.3 | 2762.5 | 2617.4 | 2518.1 | 2487.5 | 2477.3 | 2426.4 | 2385.7 | 2380.6 |
| 32.5° | 5112.6 | 3890.4 | 2999.3 | 2670.9 | 2538.5 | 2462.1 | 2477.3 | 2429.0 | 2365.3 | 2329.7 | 2319.5 |
| 35°   | 5331.5 | 3903.2 | 2859.3 | 2566.5 | 2485.0 | 2436.6 | 2418.8 | 2408.6 | 2316.9 | 2283.8 | 2258.4 |
| 37.5° | 5665.1 | 3875.2 | 2742.1 | 2492.6 | 2426.4 | 2408.6 | 2393.3 | 2324.6 | 2220.2 | 2171.8 | 2136.2 |
| 40°   | 6054.6 | 3867.5 | 2591.9 | 2388.2 | 2370.4 | 2390.8 | 2345.0 | 2238.0 | 2092.9 | 2039.4 | 2014.0 |
| 42.5° | 6428.9 | 3921.0 | 2497.7 | 2332.2 | 2309.3 | 2316.9 | 2253.3 | 2092.9 | 2021.6 | 1991.0 | 1950.3 |
| 45°   | 7055.2 | 4033.0 | 2342.4 | 2245.7 | 2235.5 | 2230.4 | 2154.0 | 1986.0 | 1945.2 | 1907.0 | 1899.4 |
| 47.5° | 7620.5 | 3959.2 | 2243.1 | 2156.5 | 2166.7 | 2138.7 | 1975.8 | 1922.3 | 1876.5 | 1838.3 | 1825.5 |
| 50°   | 7653.6 | 3783.5 | 2103.1 | 2087.8 | 2090.3 | 2042.0 | 1886.7 | 1851.0 | 1792.4 | 1767.0 | 1749.2 |
| 52.5° | 7480.4 | 3495.8 | 1973.2 | 1978.3 | 1986.0 | 1907.0 | 1777.2 | 1751.7 | 1703.3 | 1667.7 | 1657.5 |
| 55°   | 6994.1 | 3047.7 | 1845.9 | 1866.3 | 1886.7 | 1736.4 | 1695.7 | 1632.0 | 1593.9 | 1542.9 | 1545.5 |
| 57.5° | 6161.5 | 2454.4 | 1667.7 | 1700.8 | 1744.1 | 1578.6 | 1548.0 | 1469.1 | 1413.1 | 1372.3 | 1367.3 |
| 60°   | 4129.8 | 1746.6 | 1400.4 | 1413.1 | 1509.8 | 1443.6 | 1441.1 | 1362.2 | 1285.8 | 1250.1 | 1229.8 |
| 62.5° | 2436.6 | 1334.2 | 1209.4 | 1196.7 | 1194.1 | 1232.3 | 1296.0 | 1268.0 | 1168.7 | 1099.9 | 1120.3 |
| 65°   | 1275.6 | 1153.4 | 1125.4 | 1082.1 | 1056.6 | 1046.4 | 1094.8 | 1107.6 | 1041.4 | 967.5  | 962.4  |
| 67.5° | 1071.9 | 1071.9 | 1049.0 | 1033.7 | 998.1  | 954.8  | 924.2  | 883.5  | 873.3  | 852.9  | 827.5  |
| 70°   | 975.2  | 1000.6 | 993.0  | 957.3  | 926.8  | 878.4  | 799.5  | 733.3  | 669.6  | 646.7  | 662.0  |
| 72.5° | 850.4  | 875.9  | 875.9  | 858.0  | 817.3  | 743.5  | 667.1  | 590.7  | 537.2  | 496.5  | 491.4  |
| 75°   | 654.3  | 667.1  | 697.6  | 677.3  | 623.8  | 578.0  | 499.0  | 420.1  | 369.2  | 331.0  | 323.4  |
| 77.5° | 417.6  | 437.9  | 437.9  | 435.4  | 397.2  | 353.9  | 303.0  | 247.0  | 208.8  | 180.8  | 173.1  |
| 80°   | 277.5  | 290.3  | 300.4  | 290.3  | 264.8  | 231.7  | 193.5  | 155.3  | 127.3  | 104.4  | 99.3   |
| 82.5° | 203.7  | 219.0  | 226.6  | 216.4  | 191.0  | 165.5  | 137.5  | 109.5  | 81.5   | 63.7   | 58.6   |
| 85°   | 78.9   | 81.5   | 91.7   | 109.5  | 106.9  | 104.4  | 84.0   | 61.1   | 45.8   | 33.1   | 30.6   |
| 87.5° | 20.4   | 17.8   | 20.4   | 20.4   | 17.8   | 15.3   | 15.3   | 15.3   | 15.3   | 7.6    | 10.2   |
| 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)