

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: P318149

Luminaire Tested: **GAN-SA5A-760-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-760-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22856 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

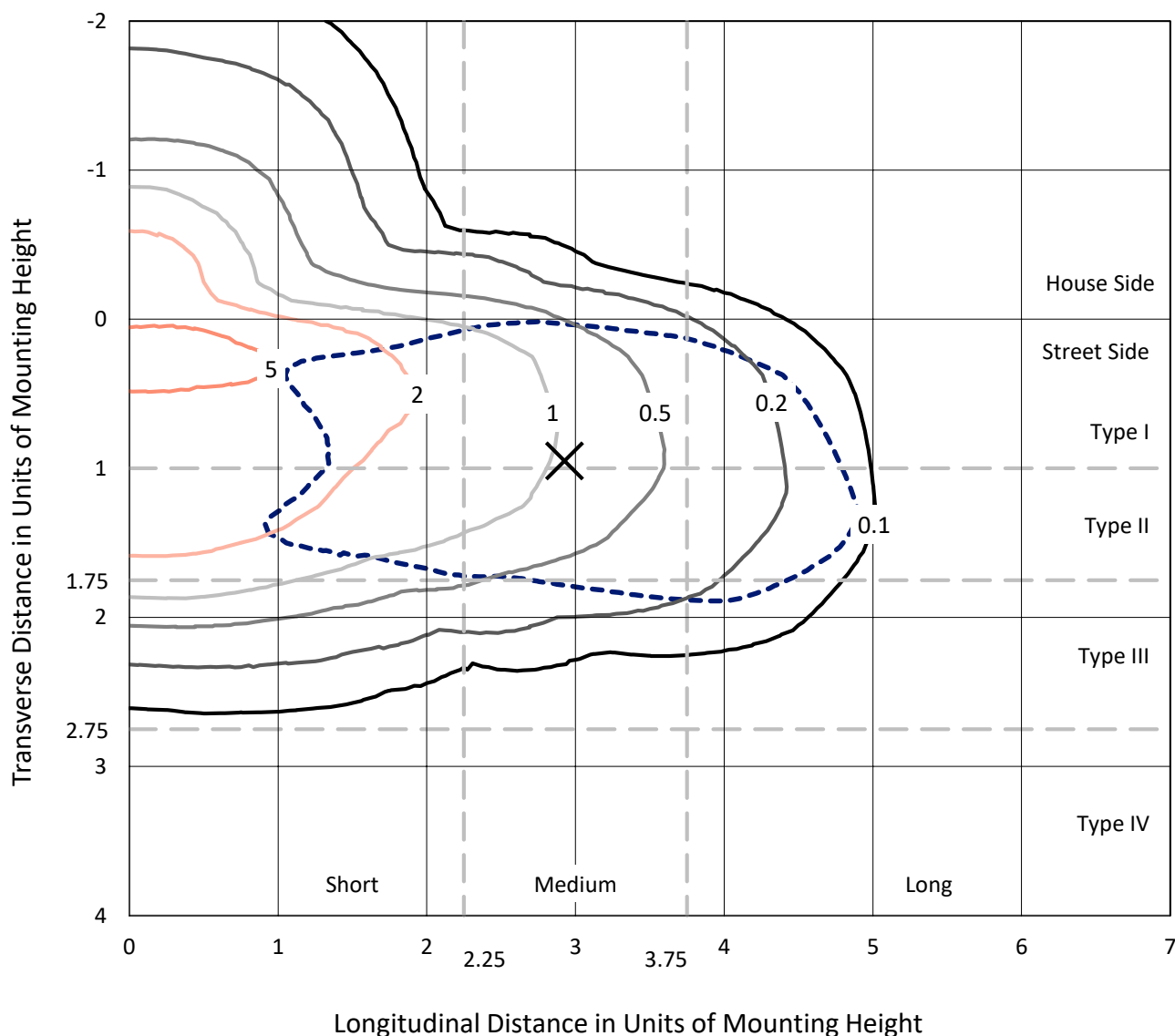
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318149  
 CATALOG NUMBER: GAN-SA5A-760-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

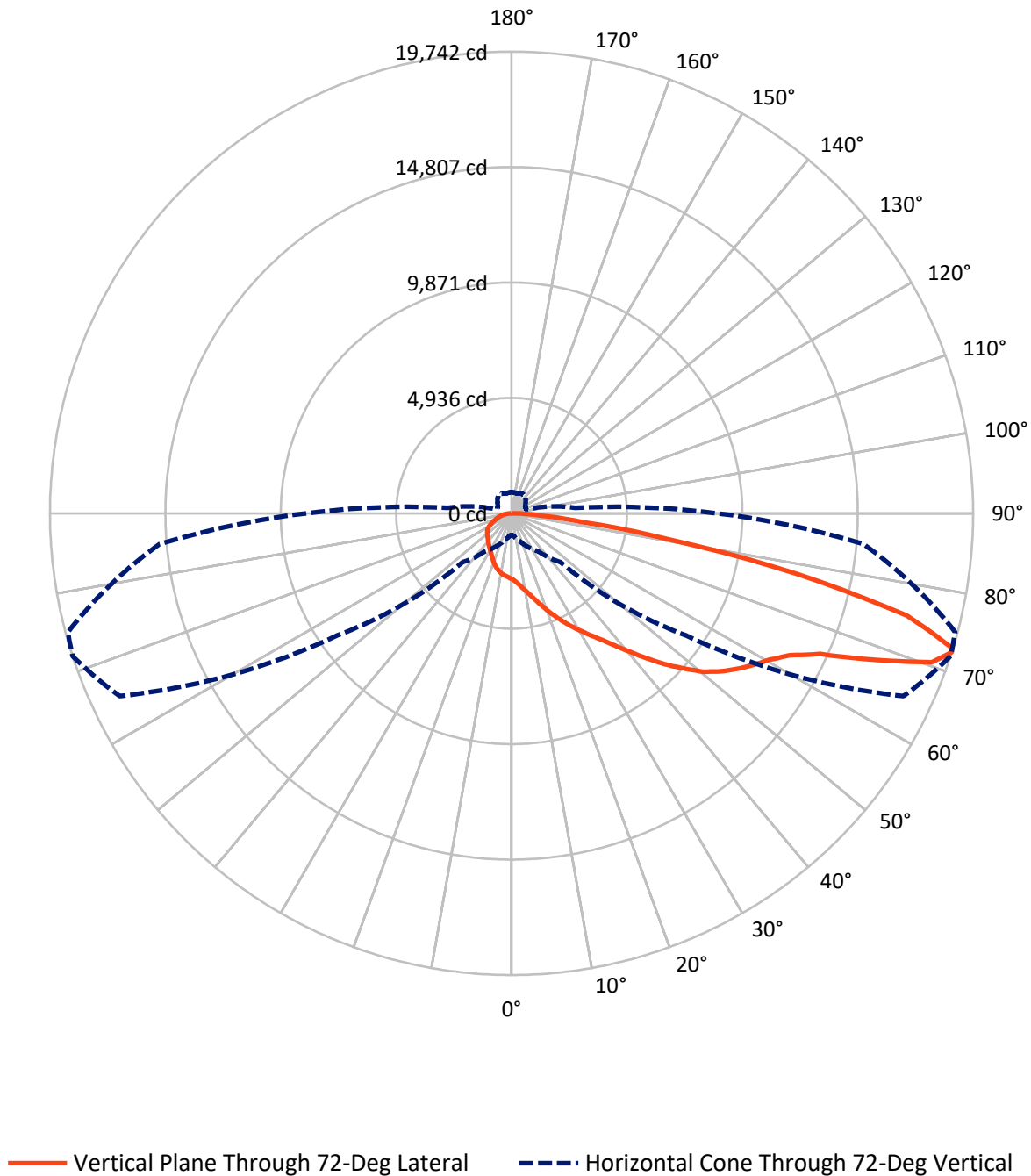
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P318149  
CATALOG NUMBER: GAN-SA5A-760-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P318149

CATALOG NUMBER: GAN-SA5A-760-U-T2

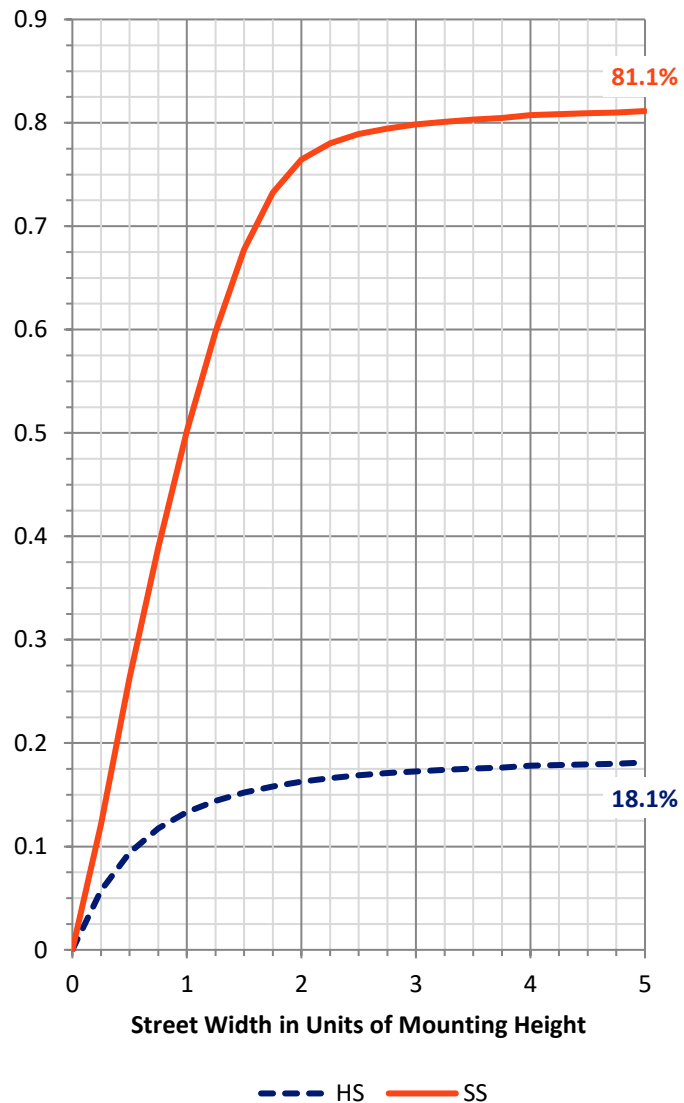
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4239.9   | 0.0    | 4239.9  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 18616.1  | 0.0    | 18616.1 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 22856.0  | 0.0    | 22856.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 281.8   | 1.2       |
| 10°-20°   | 910.5   | 4.0       |
| 20°-30°   | 1595.5  | 7.0       |
| 30°-40°   | 2365.6  | 10.4      |
| 40°-50°   | 3459.9  | 15.1      |
| 50°-60°   | 4760.8  | 20.8      |
| 60°-70°   | 5300.2  | 23.2      |
| 70°-80°   | 3591.4  | 15.7      |
| 80°-90°   | 590.3   | 2.6       |
| 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: P318149

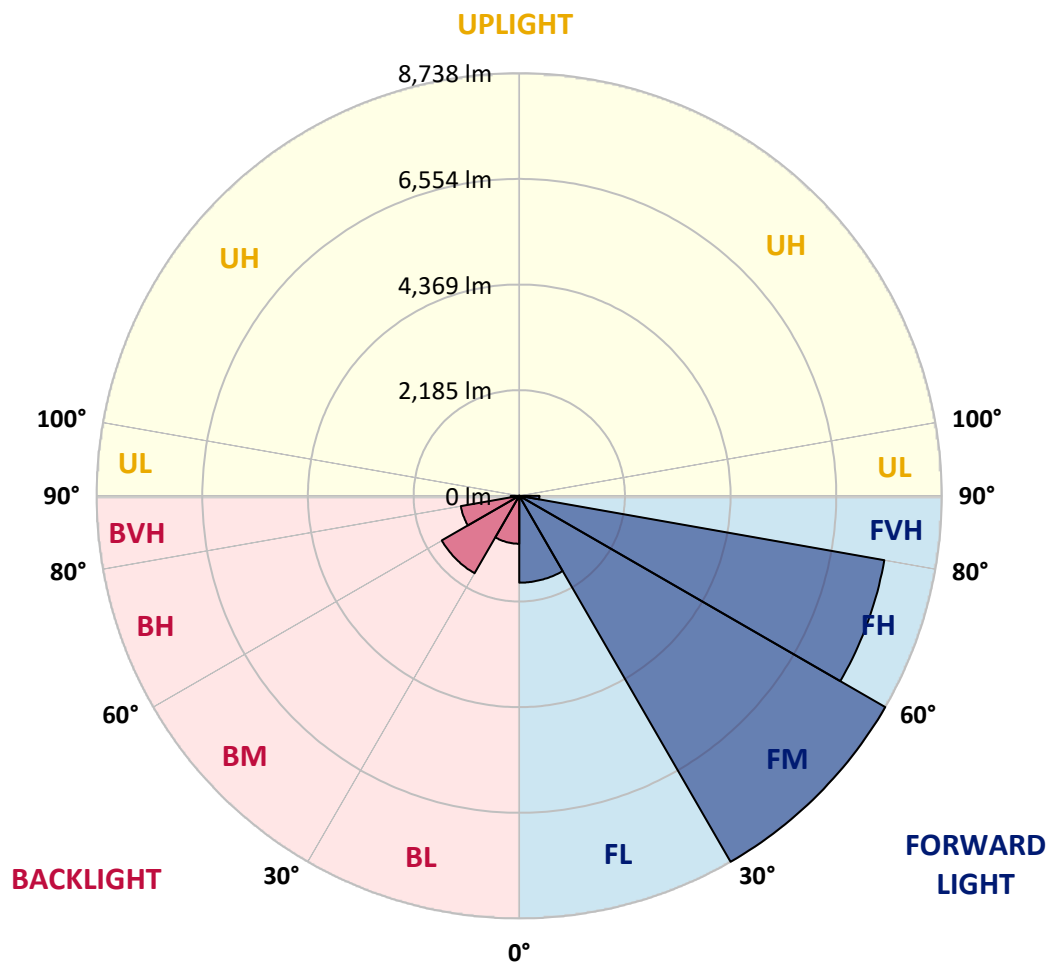
CATALOG NUMBER: GAN-SA5A-760-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1796.6 | 7.9       |                         |      |          |
| FM   | (30°-60°)   | 8738.1 | 38.2      |                         |      |          |
| FH   | (60°-80°)   | 7664.9 | 33.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 416.4  | 1.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 991.1  | 4.3       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1848.2 | 8.1       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1226.7 | 5.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 173.9  | 0.8       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Medium



REPORT NUMBER: P318149

CATALOG NUMBER: GAN-SA5A-760-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9  | 2811.9  | 2811.9  | 2811.9  | 2811.9  | 2811.9  | 2811.9  |
| 2.5°  | 3106.2 | 3101.5 | 3085.0 | 3085.0 | 3053.5  | 3026.7  | 2976.4  | 2942.5  | 2902.4  | 2888.2  | 2841.0  |
| 5°    | 3406.8 | 3408.4 | 3388.0 | 3373.8 | 3327.4  | 3270.7  | 3184.9  | 3107.0  | 3029.1  | 2997.6  | 2900.8  |
| 7.5°  | 3659.5 | 3656.3 | 3650.8 | 3639.0 | 3595.7  | 3537.5  | 3421.8  | 3306.1  | 3191.2  | 3144.0  | 2977.2  |
| 10°   | 3821.6 | 3828.7 | 3833.4 | 3838.9 | 3820.8  | 3779.1  | 3669.7  | 3528.8  | 3378.5  | 3314.0  | 3068.4  |
| 12.5° | 3903.4 | 3916.0 | 3938.1 | 3975.8 | 4005.7  | 4001.0  | 3921.5  | 3772.0  | 3593.4  | 3512.3  | 3182.6  |
| 15°   | 3951.4 | 3968.0 | 4002.6 | 4070.3 | 4154.5  | 4202.5  | 4181.2  | 4045.9  | 3846.8  | 3746.8  | 3321.8  |
| 17.5° | 3981.3 | 3994.7 | 4048.2 | 4138.7 | 4263.9  | 4391.4  | 4447.2  | 4333.9  | 4133.2  | 4019.1  | 3481.6  |
| 20°   | 4001.8 | 4012.0 | 4078.9 | 4185.2 | 4347.3  | 4550.3  | 4706.1  | 4677.8  | 4448.8  | 4300.9  | 3648.4  |
| 22.5° | 4047.4 | 4056.1 | 4119.8 | 4226.9 | 4406.3  | 4668.4  | 4955.6  | 4998.1  | 4781.7  | 4614.1  | 3827.1  |
| 25°   | 4174.9 | 4174.9 | 4228.5 | 4303.2 | 4471.6  | 4770.7  | 5166.5  | 5354.6  | 5121.7  | 4926.5  | 3992.4  |
| 27.5° | 4418.1 | 4415.8 | 4435.4 | 4461.4 | 4588.9  | 4874.6  | 5354.6  | 5669.4  | 5474.2  | 5261.0  | 4152.9  |
| 30°   | 4706.1 | 4721.9 | 4724.2 | 4711.7 | 4771.5  | 5004.4  | 5528.5  | 6001.5  | 5829.2  | 5599.4  | 4317.4  |
| 32.5° | 5076.8 | 5087.0 | 5075.2 | 5033.5 | 5024.9  | 5188.6  | 5699.3  | 6349.4  | 6213.2  | 5952.7  | 4467.7  |
| 35°   | 5547.4 | 5527.8 | 5490.8 | 5405.8 | 5324.7  | 5434.9  | 5894.5  | 6697.2  | 6644.5  | 6380.1  | 4674.7  |
| 37.5° | 6051.9 | 6052.7 | 6007.0 | 5814.2 | 5702.5  | 5749.7  | 6163.6  | 7091.5  | 7166.3  | 6888.4  | 4939.9  |
| 40°   | 6456.4 | 6477.6 | 6506.0 | 6252.6 | 6107.8  | 6173.1  | 6506.0  | 7548.7  | 7783.2  | 7491.3  | 5285.4  |
| 42.5° | 6738.9 | 6763.3 | 6843.6 | 6684.6 | 6534.3  | 6655.5  | 6908.9  | 8036.7  | 8475.8  | 8187.0  | 5689.9  |
| 45°   | 7038.0 | 7051.4 | 7108.0 | 7039.5 | 6943.5  | 7216.6  | 7363.0  | 8541.9  | 9208.5  | 8928.3  | 6142.4  |
| 47.5° | 7352.8 | 7366.9 | 7425.2 | 7379.5 | 7329.2  | 7740.7  | 7836.8  | 9018.0  | 9910.5  | 9742.8  | 6625.6  |
| 50°   | 7741.5 | 7751.0 | 7806.1 | 7723.4 | 7739.2  | 8135.8  | 8260.2  | 9454.8  | 10646.3 | 10474.7 | 7110.4  |
| 52.5° | 8272.0 | 8274.3 | 8350.7 | 8275.9 | 8201.9  | 8425.4  | 8624.5  | 9866.4  | 11223.1 | 11142.1 | 7595.2  |
| 55°   | 8687.5 | 8712.7 | 8962.9 | 8947.2 | 8904.7  | 8688.3  | 8929.1  | 10258.3 | 11737.8 | 11776.4 | 8109.8  |
| 57.5° | 8422.3 | 8520.6 | 9027.5 | 9384.8 | 9732.6  | 9342.3  | 9340.7  | 10699.8 | 12216.3 | 12398.9 | 8675.7  |
| 60°   | 7376.4 | 7510.2 | 8257.0 | 9049.5 | 10137.9 | 10480.2 | 10195.3 | 11238.9 | 12699.5 | 13015.9 | 9384.8  |
| 62.5° | 5268.1 | 5488.4 | 6500.5 | 7765.9 | 9582.3  | 11234.2 | 11934.6 | 12094.3 | 13356.6 | 13730.5 | 10306.3 |
| 65°   | 2663.1 | 2830.0 | 3678.4 | 5202.7 | 7655.8  | 10741.5 | 13824.9 | 13967.3 | 14498.6 | 14830.7 | 11725.2 |
| 67.5° | 1618.0 | 1681.0 | 2094.9 | 2893.7 | 4693.6  | 8367.2  | 14441.9 | 17089.3 | 16708.4 | 16884.7 | 13748.6 |
| 70°   | 1192.3 | 1238.7 | 1496.8 | 1921.8 | 2699.3  | 4910.0  | 12548.4 | 19317.2 | 19067.0 | 19047.3 | 15243.8 |
| 72°   | 928.6  | 962.5  | 1190.7 | 1552.7 | 1973.7  | 2945.7  | 9095.1  | 18494.8 | 19742.2 | 19643.1 | 15106.9 |
| 72.5° | 880.6  | 910.5  | 1118.3 | 1461.4 | 1865.1  | 2670.2  | 8177.5  | 17940.0 | 19693.4 | 19648.6 | 14929.8 |
| 75°   | 693.3  | 714.6  | 827.9  | 1130.1 | 1459.9  | 1514.9  | 4481.1  | 13902.8 | 17470.2 | 18196.6 | 13428.3 |
| 77.5° | 573.7  | 576.9  | 636.7  | 822.4  | 1138.0  | 1071.1  | 2201.2  | 9646.0  | 12509.9 | 13308.6 | 9512.2  |
| 80°   | 467.5  | 471.4  | 499.7  | 576.9  | 861.0   | 792.5   | 1045.1  | 5546.6  | 7004.1  | 7012.8  | 4523.6  |
| 82.5° | 372.2  | 373.0  | 404.5  | 421.8  | 618.6   | 566.6   | 598.9   | 2604.1  | 3060.6  | 2944.1  | 1625.9  |
| 85°   | 262.1  | 256.6  | 395.1  | 346.3  | 404.5   | 363.6   | 330.5   | 1030.9  | 1265.5  | 1210.4  | 509.2   |
| 87.5° | 87.4   | 90.5   | 175.5  | 224.3  | 236.1   | 206.2   | 147.2   | 395.1   | 477.7   | 473.8   | 161.3   |
| 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: P318149

CATALOG NUMBER: GAN-SA5A-760-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 | 2811.9 |
| 2.5°  | 2826.0 | 2800.9 | 2763.9 | 2723.0 | 2690.7 | 2657.6 | 2633.2 | 2620.6 | 2606.5 | 2594.7 | 2608.8 |
| 5°    | 2856.0 | 2808.7 | 2730.0 | 2652.9 | 2596.3 | 2545.9 | 2509.7 | 2490.8 | 2473.5 | 2461.7 | 2463.3 |
| 7.5°  | 2904.7 | 2828.4 | 2696.2 | 2583.7 | 2505.0 | 2450.7 | 2413.7 | 2401.1 | 2390.1 | 2386.9 | 2390.8 |
| 10°   | 2956.7 | 2844.2 | 2651.3 | 2501.8 | 2412.1 | 2367.2 | 2350.7 | 2359.4 | 2367.2 | 2374.3 | 2382.2 |
| 12.5° | 3015.7 | 2858.3 | 2586.0 | 2405.8 | 2329.5 | 2312.2 | 2328.7 | 2366.5 | 2394.0 | 2410.5 | 2420.8 |
| 15°   | 3092.8 | 2870.9 | 2510.5 | 2309.8 | 2258.6 | 2278.3 | 2334.2 | 2399.5 | 2447.5 | 2478.2 | 2482.9 |
| 17.5° | 3163.7 | 2870.1 | 2413.7 | 2213.0 | 2201.2 | 2258.6 | 2342.8 | 2434.9 | 2499.5 | 2542.7 | 2551.4 |
| 20°   | 3236.9 | 2848.9 | 2301.1 | 2118.6 | 2143.0 | 2237.4 | 2346.8 | 2457.7 | 2535.7 | 2586.0 | 2597.8 |
| 22.5° | 3305.3 | 2811.9 | 2177.6 | 2032.8 | 2094.2 | 2209.1 | 2331.8 | 2444.4 | 2522.3 | 2563.2 | 2575.8 |
| 25°   | 3351.8 | 2747.4 | 2052.4 | 1960.4 | 2050.9 | 2174.4 | 2283.0 | 2373.5 | 2431.8 | 2452.2 | 2455.4 |
| 27.5° | 3375.4 | 2663.1 | 1934.4 | 1897.4 | 2006.0 | 2117.8 | 2192.5 | 2237.4 | 2253.9 | 2252.3 | 2249.2 |
| 30°   | 3378.5 | 2552.2 | 1832.9 | 1846.3 | 1954.1 | 2034.3 | 2069.8 | 2061.1 | 2039.9 | 2003.7 | 2006.8 |
| 32.5° | 3368.3 | 2427.1 | 1747.9 | 1797.5 | 1888.0 | 1932.8 | 1934.4 | 1892.7 | 1836.0 | 1778.6 | 1762.8 |
| 35°   | 3371.4 | 2304.3 | 1673.1 | 1742.4 | 1807.7 | 1827.4 | 1809.3 | 1747.9 | 1670.8 | 1596.8 | 1581.0 |
| 37.5° | 3406.1 | 2197.3 | 1608.6 | 1678.6 | 1718.8 | 1723.5 | 1697.5 | 1633.0 | 1576.3 | 1503.9 | 1497.6 |
| 40°   | 3488.7 | 2120.9 | 1547.2 | 1607.0 | 1629.8 | 1632.2 | 1595.2 | 1549.6 | 1554.3 | 1515.7 | 1514.9 |
| 42.5° | 3637.4 | 2087.9 | 1492.9 | 1532.3 | 1546.4 | 1551.1 | 1522.8 | 1493.7 | 1534.6 | 1509.4 | 1500.8 |
| 45°   | 3829.5 | 2095.7 | 1447.3 | 1459.1 | 1485.0 | 1507.1 | 1489.8 | 1454.3 | 1470.1 | 1360.7 | 1324.5 |
| 47.5° | 4051.4 | 2146.1 | 1411.1 | 1396.1 | 1441.0 | 1482.7 | 1455.9 | 1402.4 | 1346.5 | 1237.9 | 1217.5 |
| 50°   | 4311.1 | 2224.0 | 1378.0 | 1333.9 | 1393.0 | 1449.6 | 1422.9 | 1346.5 | 1262.3 | 1209.6 | 1202.5 |
| 52.5° | 4581.8 | 2319.2 | 1345.0 | 1265.5 | 1332.4 | 1424.4 | 1411.1 | 1333.9 | 1230.1 | 1178.1 | 1168.7 |
| 55°   | 4888.7 | 2415.2 | 1303.2 | 1186.0 | 1267.0 | 1412.6 | 1405.5 | 1288.3 | 1205.7 | 1176.5 | 1169.5 |
| 57.5° | 5270.4 | 2524.6 | 1248.2 | 1103.3 | 1205.7 | 1370.1 | 1348.1 | 1260.7 | 1180.5 | 1158.4 | 1156.1 |
| 60°   | 5767.8 | 2686.0 | 1168.7 | 1015.2 | 1130.9 | 1304.8 | 1300.1 | 1220.6 | 1140.3 | 1124.6 | 1121.4 |
| 62.5° | 6513.8 | 2952.8 | 1059.3 | 927.1  | 1047.5 | 1193.9 | 1237.1 | 1166.3 | 1097.8 | 1097.1 | 1098.6 |
| 65°   | 7670.7 | 3354.1 | 940.4  | 849.9  | 963.3  | 1100.2 | 1163.9 | 1110.4 | 1054.6 | 1070.3 | 1072.7 |
| 67.5° | 9011.7 | 3687.0 | 824.0  | 774.4  | 877.5  | 1011.3 | 1097.8 | 1054.6 | 997.1  | 1038.0 | 1038.8 |
| 70°   | 9457.9 | 3389.5 | 721.7  | 699.6  | 788.6  | 925.5  | 1026.2 | 993.2  | 934.9  | 975.9  | 971.9  |
| 72°   | 8801.6 | 2736.3 | 655.6  | 643.0  | 721.7  | 854.7  | 962.5  | 935.7  | 878.3  | 905.8  | 895.6  |
| 72.5° | 8594.6 | 2608.8 | 639.0  | 628.8  | 703.6  | 836.6  | 946.0  | 921.6  | 864.1  | 887.7  | 878.3  |
| 75°   | 7666.8 | 2265.7 | 549.3  | 551.7  | 613.8  | 748.4  | 853.1  | 845.2  | 786.2  | 788.6  | 785.4  |
| 77.5° | 5560.8 | 1661.3 | 462.7  | 478.5  | 522.6  | 657.9  | 759.4  | 754.7  | 690.2  | 678.4  | 676.0  |
| 80°   | 2580.5 | 847.6  | 377.0  | 384.0  | 429.7  | 550.1  | 647.7  | 641.4  | 589.4  | 574.5  | 565.8  |
| 82.5° | 883.8  | 402.9  | 283.3  | 288.0  | 332.9  | 443.1  | 561.9  | 558.0  | 514.7  | 485.6  | 467.5  |
| 85°   | 315.6  | 200.7  | 198.3  | 193.6  | 237.7  | 348.6  | 489.5  | 468.3  | 404.5  | 344.7  | 343.1  |
| 87.5° | 102.3  | 85.8   | 102.3  | 101.5  | 138.5  | 236.1  | 355.7  | 303.0  | 293.5  | 244.0  | 239.2  |
| 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)