

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: P321060

Luminaire Tested: **GAN-SA6D-760-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-760-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47609 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

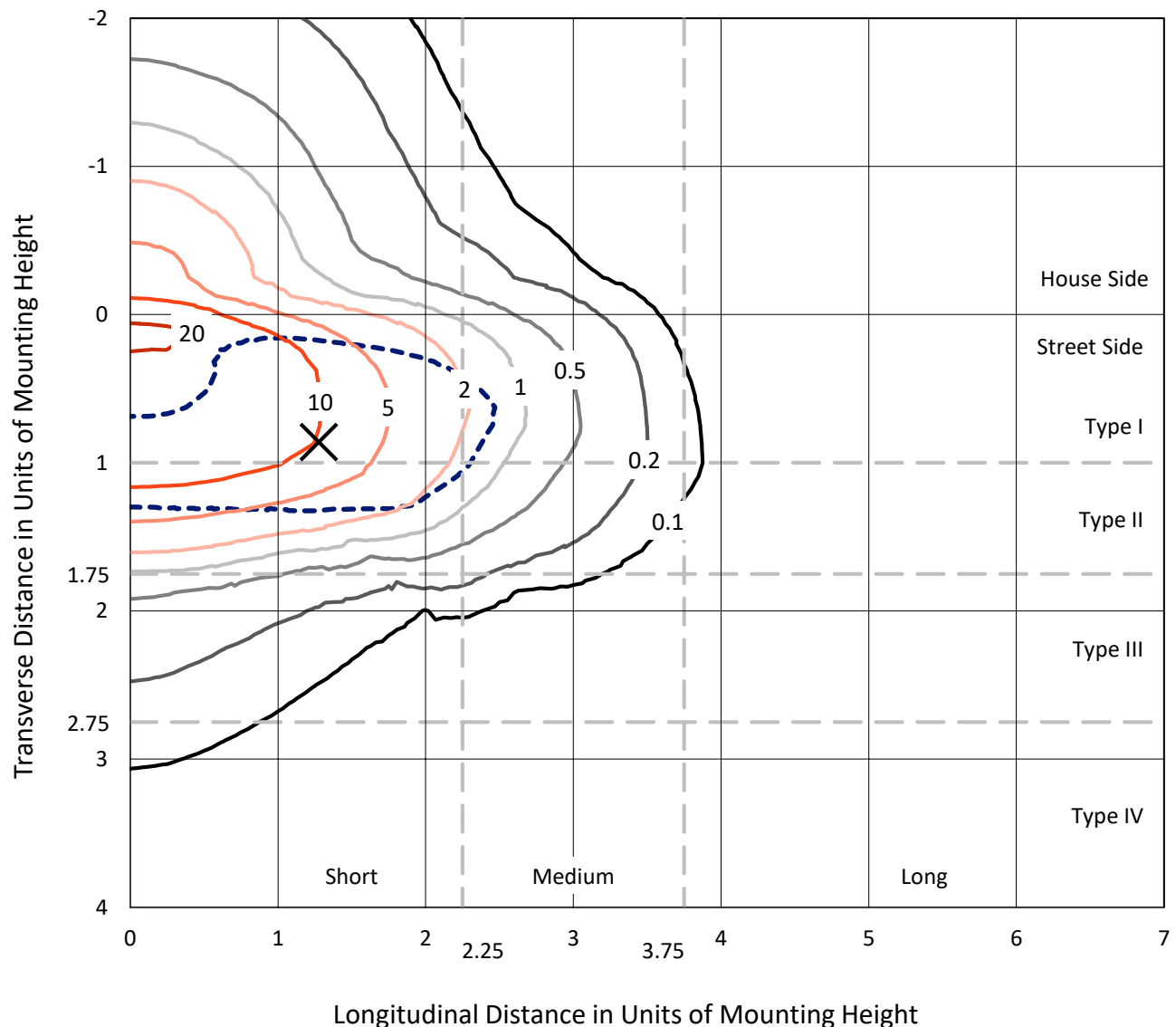
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P321060  
 CATALOG NUMBER: GAN-SA6D-760-U-AFL

## Iso-Footcandle Lines of Horizontal Illumination

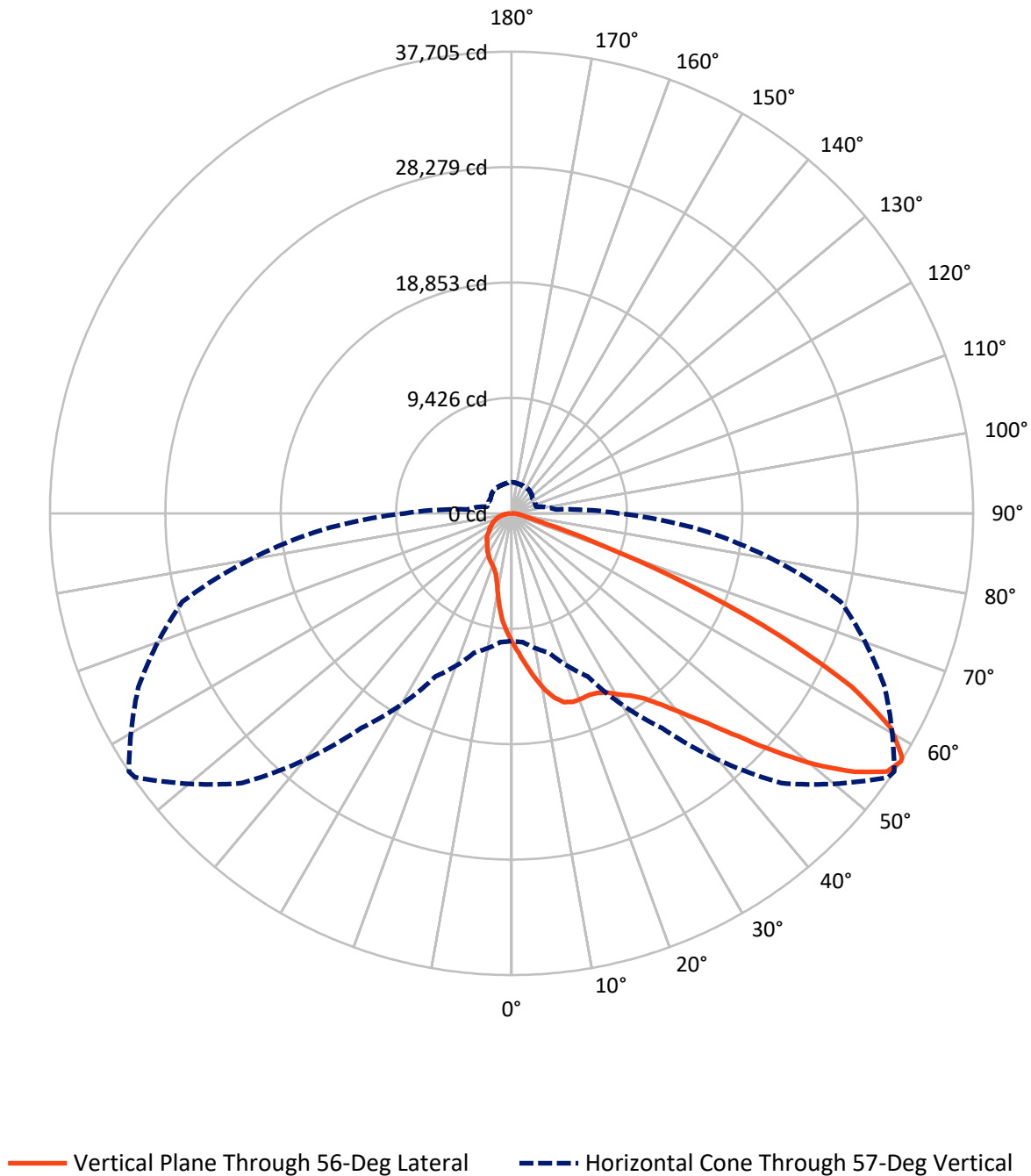
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P321060  
CATALOG NUMBER: GAN-SA6D-760-U-AFL

## Luminous Intensity Polar Plot



REPORT NUMBER: P321060

CATALOG NUMBER: GAN-SA6D-760-U-AFL

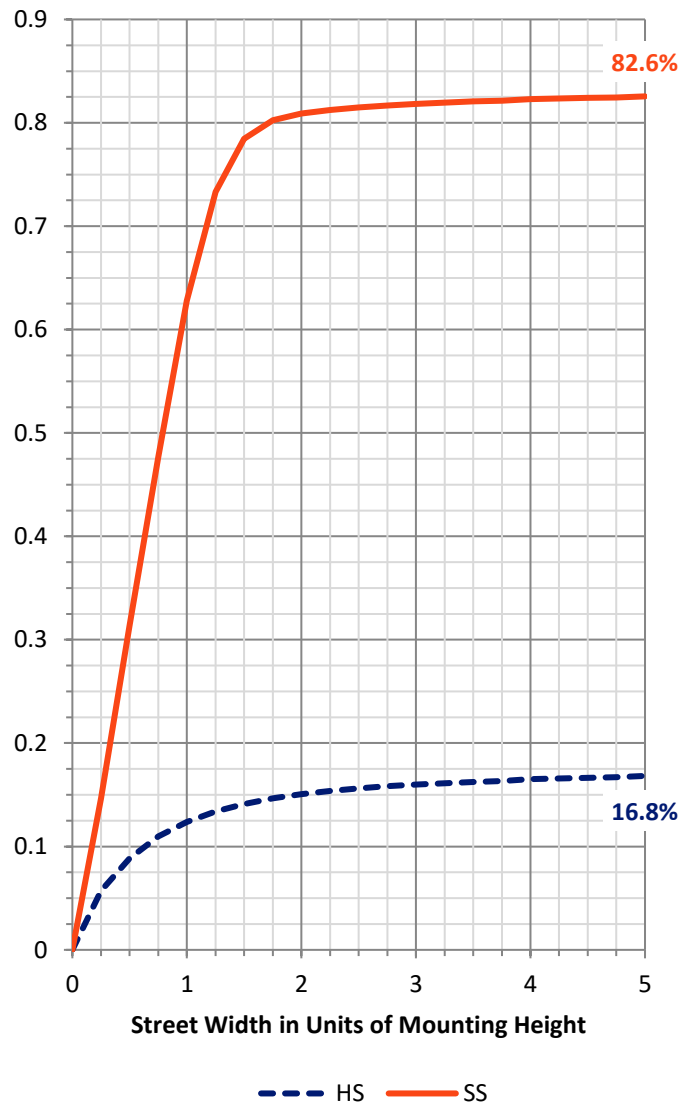
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8206.8   | 0.0    | 8206.8  |
|                    | % Fixture | 17.2     | 0.0    | 17.2    |
| <b>Street Side</b> | Lumens    | 39402.2  | 0.0    | 39402.2 |
|                    | % Fixture | 82.8     | 0.0    | 82.8    |
| <b>Total</b>       | Lumens    | 47609.0  | 0.0    | 47609.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1008.7  | 2.1       |
| 10°-20°   | 2851.9  | 6.0       |
| 20°-30°   | 4645.2  | 9.8       |
| 30°-40°   | 6944.0  | 14.6      |
| 40°-50°   | 10532.6 | 22.1      |
| 50°-60°   | 11805.2 | 24.8      |
| 60°-70°   | 6972.6  | 14.6      |
| 70°-80°   | 2284.5  | 4.8       |
| 80°-90°   | 564.4   | 1.2       |
| 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°    | 47609.0 | 100.0     |
| 0°-180°   | 47609.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P321060

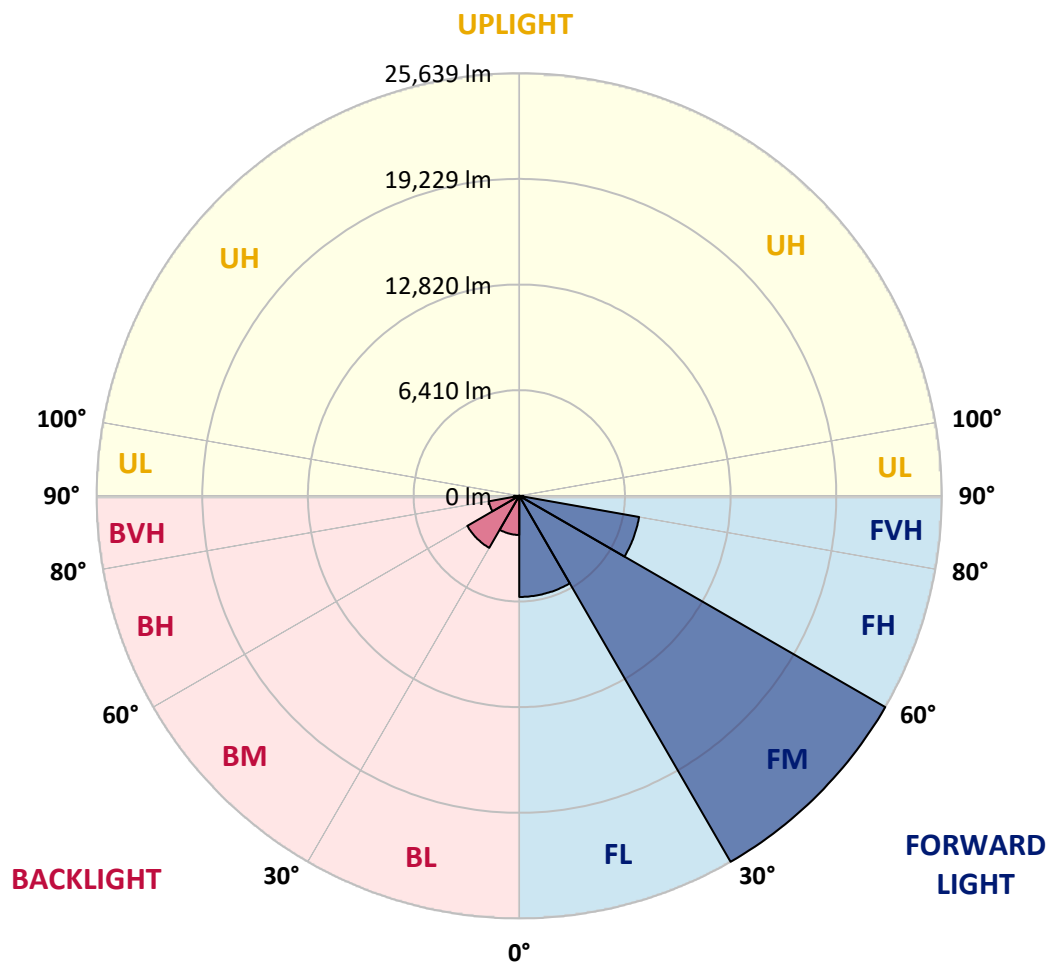
CATALOG NUMBER: GAN-SA6D-760-U-AFL

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6132.8  | 12.9      |                         |      |         |
| FM   | (30°-60°)   | 25639.0 | 53.9      |                         |      |         |
| FH   | (60°-80°)   | 7381.9  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 248.5   | 0.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2373.0  | 5.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3642.7  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1875.2  | 3.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 315.9   | 0.7       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P321060

CATALOG NUMBER: GAN-SA6D-760-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 |
| 2.5°  | 12125.5 | 12236.8 | 12187.7 | 12017.5 | 11886.6 | 11701.8 | 11495.6 | 11433.4 | 11215.8 | 10972.0 | 10679.2 |
| 5°    | 14044.7 | 13989.1 | 13908.9 | 13643.9 | 13364.1 | 13038.5 | 12521.5 | 12439.7 | 11955.4 | 11404.0 | 10821.5 |
| 7.5°  | 15137.7 | 15132.8 | 15085.3 | 14929.9 | 14674.6 | 14249.2 | 13625.9 | 13529.3 | 12798.0 | 11911.2 | 11008.0 |
| 10°   | 14979.0 | 14967.5 | 15046.0 | 15208.0 | 15284.9 | 15196.6 | 14671.4 | 14574.8 | 13676.6 | 12472.4 | 11224.0 |
| 12.5° | 14077.4 | 14084.0 | 14210.0 | 14550.3 | 15013.3 | 15569.6 | 15484.5 | 15437.1 | 14587.9 | 13107.2 | 11485.8 |
| 15°   | 13375.5 | 13390.3 | 13490.1 | 13786.2 | 14332.7 | 15342.2 | 15978.7 | 15995.0 | 15469.8 | 13807.5 | 11791.7 |
| 17.5° | 13067.9 | 13099.0 | 13144.8 | 13352.6 | 13853.3 | 14889.0 | 16096.5 | 16184.8 | 16242.1 | 14533.9 | 12086.2 |
| 20°   | 13166.1 | 13195.6 | 13208.6 | 13341.2 | 13751.9 | 14614.1 | 16014.6 | 16173.4 | 16834.4 | 15217.8 | 12380.8 |
| 22.5° | 13606.2 | 13624.2 | 13632.4 | 13666.8 | 13985.8 | 14692.6 | 15960.7 | 16127.5 | 17263.0 | 15831.4 | 12603.3 |
| 25°   | 14336.0 | 14322.9 | 14270.5 | 14226.3 | 14440.7 | 15003.5 | 16085.0 | 16243.7 | 17611.5 | 16387.7 | 12748.9 |
| 27.5° | 15209.7 | 15193.3 | 15091.9 | 14970.8 | 15093.5 | 15487.8 | 16443.3 | 16569.3 | 17924.0 | 16908.0 | 12822.5 |
| 30°   | 16258.4 | 16215.9 | 16024.5 | 15880.5 | 15927.9 | 16214.3 | 17034.0 | 17148.5 | 18406.7 | 17498.6 | 12894.5 |
| 32.5° | 17470.8 | 17425.0 | 17148.5 | 16909.6 | 16909.6 | 17148.5 | 17642.6 | 17737.5 | 18815.7 | 18166.2 | 13010.7 |
| 35°   | 18989.2 | 18931.9 | 18572.0 | 18171.1 | 18058.2 | 18179.3 | 18472.1 | 18539.2 | 19552.0 | 19007.2 | 13221.7 |
| 37.5° | 20779.1 | 20702.2 | 20235.9 | 19699.3 | 19452.2 | 19445.7 | 19656.7 | 19794.2 | 20728.4 | 20111.6 | 13580.1 |
| 40°   | 22574.0 | 22520.0 | 22112.6 | 21690.5 | 21206.2 | 21050.7 | 21376.3 | 21418.9 | 22266.4 | 21482.7 | 14038.2 |
| 42.5° | 23961.4 | 23951.6 | 23876.4 | 23932.0 | 23436.2 | 23122.1 | 23377.3 | 23411.7 | 24144.7 | 22966.7 | 14525.7 |
| 45°   | 24694.4 | 24710.8 | 25075.7 | 25883.9 | 26067.2 | 25838.1 | 25964.1 | 25973.9 | 26291.3 | 24463.7 | 14972.4 |
| 47.5° | 24107.1 | 24192.1 | 25114.9 | 26922.9 | 28423.2 | 29184.0 | 28974.6 | 29095.7 | 28372.5 | 25749.7 | 15322.6 |
| 50°   | 21818.1 | 21922.8 | 23493.5 | 26459.8 | 29522.7 | 32422.0 | 32312.3 | 32284.5 | 30051.2 | 26692.2 | 15512.3 |
| 52.5° | 18982.6 | 19064.4 | 20360.3 | 24053.1 | 28716.1 | 34211.9 | 35218.2 | 35074.2 | 31543.4 | 27397.4 | 15548.3 |
| 55°   | 14664.8 | 14792.4 | 16034.3 | 19249.3 | 25453.6 | 33528.0 | 37355.0 | 37225.7 | 32903.0 | 27767.1 | 15505.8 |
| 57°   | 10425.6 | 10559.7 | 11793.4 | 14691.0 | 21412.3 | 31160.5 | 37567.7 | 37705.1 | 33637.6 | 27829.3 | 15553.3 |
| 57.5° | 9303.2  | 9440.6  | 10662.8 | 13477.0 | 20152.5 | 30304.8 | 37384.4 | 37613.5 | 33770.2 | 27819.5 | 15579.4 |
| 60°   | 4684.3  | 4736.7  | 5515.5  | 7523.0  | 12739.1 | 24499.7 | 34994.0 | 35584.7 | 33889.6 | 27338.4 | 15692.3 |
| 62.5° | 2912.3  | 2874.7  | 2850.2  | 3465.4  | 6197.7  | 16247.0 | 30061.0 | 31198.1 | 31603.9 | 26173.5 | 15419.1 |
| 65°   | 2560.6  | 2490.2  | 2220.3  | 2171.2  | 2737.3  | 7891.2  | 22637.8 | 24053.1 | 26720.0 | 24337.7 | 14767.9 |
| 67.5° | 2405.1  | 2336.4  | 2032.1  | 1848.9  | 1850.5  | 3128.3  | 14054.5 | 15648.1 | 20815.1 | 21234.0 | 13231.6 |
| 70°   | 2244.8  | 2182.6  | 1897.9  | 1682.0  | 1575.6  | 1732.7  | 6466.1  | 7675.2  | 13568.6 | 16690.4 | 11058.7 |
| 72.5° | 2038.6  | 1996.1  | 1726.1  | 1503.6  | 1390.7  | 1297.5  | 2475.5  | 2923.8  | 7855.2  | 11209.3 | 7680.1  |
| 75°   | 1822.7  | 1783.4  | 1552.7  | 1340.0  | 1202.6  | 1021.0  | 1394.0  | 1502.0  | 3990.6  | 5734.7  | 3781.1  |
| 77.5° | 1585.4  | 1562.5  | 1380.9  | 1184.6  | 1075.0  | 845.9   | 986.6   | 1039.0  | 1711.4  | 2459.1  | 1896.3  |
| 80°   | 1261.5  | 1305.6  | 1207.5  | 1055.3  | 953.9   | 677.4   | 698.6   | 733.0   | 996.4   | 1200.9  | 1076.6  |
| 82.5° | 821.3   | 898.2   | 945.7   | 857.3   | 785.4   | 533.4   | 502.3   | 517.0   | 649.6   | 733.0   | 467.9   |
| 85°   | 342.0   | 384.5   | 621.7   | 561.2   | 521.9   | 389.4   | 337.0   | 343.6   | 402.5   | 417.2   | 191.4   |
| 87.5° | 152.2   | 162.0   | 273.2   | 256.9   | 220.9   | 134.2   | 144.0   | 157.1   | 214.3   | 202.9   | 73.6    |
| 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: P321060

CATALOG NUMBER: GAN-SA6D-760-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 | 10559.7 |
| 2.5°  | 10569.5 | 10432.1 | 10196.5 | 9936.3  | 9723.6  | 9553.5  | 9381.7  | 9263.9  | 9126.5  | 9052.8  | 9015.2  |
| 5°    | 10577.7 | 10307.8 | 9812.0  | 9303.2  | 8848.3  | 8432.7  | 8036.8  | 7732.5  | 7447.8  | 7294.0  | 7251.4  |
| 7.5°  | 10612.1 | 10206.3 | 9404.6  | 8566.9  | 7758.6  | 7020.7  | 6451.3  | 6094.7  | 5837.8  | 5723.3  | 5690.5  |
| 10°   | 10639.9 | 10086.9 | 8900.7  | 7660.5  | 6561.0  | 5813.2  | 5371.5  | 5171.9  | 5083.5  | 5068.8  | 5054.1  |
| 12.5° | 10705.3 | 9964.2  | 8370.5  | 6714.8  | 5630.0  | 5113.0  | 4959.2  | 4946.1  | 4970.6  | 5006.6  | 5006.6  |
| 15°   | 10808.4 | 9843.1  | 7765.2  | 5903.2  | 5037.7  | 4856.1  | 4887.2  | 4959.2  | 5026.3  | 5081.9  | 5090.1  |
| 17.5° | 10883.7 | 9694.2  | 7114.0  | 5253.7  | 4721.9  | 4771.0  | 4882.3  | 4983.7  | 5052.4  | 5106.4  | 5111.3  |
| 20°   | 10937.7 | 9463.5  | 6418.6  | 4757.9  | 4540.3  | 4692.5  | 4831.6  | 4921.5  | 4969.0  | 5023.0  | 5031.2  |
| 22.5° | 10909.9 | 9154.3  | 5801.8  | 4402.9  | 4393.1  | 4578.0  | 4710.5  | 4818.5  | 4782.5  | 4730.1  | 4764.5  |
| 25°   | 10775.7 | 8728.9  | 5167.0  | 4137.8  | 4237.6  | 4424.2  | 4587.8  | 4515.8  | 4394.7  | 4371.8  | 4384.9  |
| 27.5° | 10536.8 | 8185.7  | 4579.6  | 3892.4  | 4057.7  | 4281.8  | 4272.0  | 4200.0  | 4157.5  | 4128.0  | 4146.0  |
| 30°   | 10279.9 | 7596.6  | 4065.8  | 3678.1  | 3858.0  | 4042.9  | 4005.3  | 4003.7  | 3961.1  | 3913.7  | 3936.6  |
| 32.5° | 10026.3 | 7004.4  | 3658.4  | 3501.4  | 3707.5  | 3732.1  | 3813.9  | 3838.4  | 3755.0  | 3655.2  | 3648.6  |
| 35°   | 9805.5  | 6444.8  | 3349.2  | 3341.0  | 3525.9  | 3529.2  | 3648.6  | 3614.3  | 3406.5  | 3303.4  | 3303.4  |
| 37.5° | 9640.2  | 5886.9  | 3113.6  | 3197.0  | 3287.0  | 3372.1  | 3432.6  | 3290.3  | 3255.9  | 3198.7  | 3197.0  |
| 40°   | 9568.2  | 5396.0  | 2966.3  | 3087.4  | 3118.5  | 3226.5  | 3071.1  | 3126.7  | 3143.0  | 3113.6  | 3113.6  |
| 42.5° | 9492.9  | 4969.0  | 2838.7  | 3004.0  | 2999.1  | 2984.3  | 2905.8  | 2977.8  | 3043.2  | 3044.9  | 3040.0  |
| 45°   | 9417.7  | 4600.9  | 2725.8  | 2825.6  | 2894.4  | 2735.6  | 2750.4  | 2827.3  | 2918.9  | 2951.6  | 2951.6  |
| 47.5° | 9334.2  | 4309.6  | 2622.8  | 2637.5  | 2743.8  | 2637.5  | 2626.0  | 2684.9  | 2792.9  | 2845.3  | 2856.7  |
| 50°   | 9151.0  | 4047.8  | 2504.9  | 2472.2  | 2501.7  | 2537.7  | 2547.5  | 2575.3  | 2694.7  | 2778.2  | 2797.8  |
| 52.5° | 8897.4  | 3813.9  | 2354.4  | 2320.1  | 2320.1  | 2455.9  | 2501.7  | 2509.9  | 2611.3  | 2711.1  | 2730.7  |
| 55°   | 8686.3  | 3665.0  | 2199.0  | 2192.4  | 2185.9  | 2369.1  | 2447.7  | 2460.8  | 2531.1  | 2609.7  | 2619.5  |
| 57°   | 8701.1  | 3653.5  | 2079.5  | 2086.1  | 2084.5  | 2280.8  | 2397.0  | 2424.8  | 2460.8  | 2527.9  | 2539.3  |
| 57.5° | 8709.2  | 3661.7  | 2053.4  | 2056.6  | 2055.0  | 2256.3  | 2382.2  | 2413.3  | 2441.1  | 2511.5  | 2522.9  |
| 60°   | 8831.9  | 3683.0  | 1947.0  | 1911.0  | 1919.2  | 2125.4  | 2298.8  | 2338.1  | 2356.1  | 2449.3  | 2464.0  |
| 62.5° | 8650.3  | 3588.1  | 1861.9  | 1775.2  | 1775.2  | 1987.9  | 2182.6  | 2244.8  | 2272.6  | 2398.6  | 2423.1  |
| 65°   | 8123.5  | 3321.4  | 1762.1  | 1621.4  | 1637.8  | 1850.5  | 2043.6  | 2145.0  | 2187.5  | 2344.6  | 2370.8  |
| 67.5° | 7310.3  | 3012.2  | 1655.8  | 1484.0  | 1500.4  | 1706.5  | 1899.6  | 2009.2  | 2076.3  | 2285.7  | 2307.0  |
| 70°   | 6251.7  | 2634.2  | 1511.8  | 1338.4  | 1358.0  | 1549.4  | 1729.4  | 1853.8  | 1953.6  | 2230.1  | 2236.6  |
| 72.5° | 4609.0  | 2159.7  | 1310.6  | 1178.0  | 1199.3  | 1366.2  | 1557.6  | 1701.6  | 1835.8  | 2091.0  | 2087.7  |
| 75°   | 2740.6  | 1688.5  | 1088.0  | 1016.0  | 1030.8  | 1186.2  | 1402.2  | 1577.2  | 1778.5  | 2037.0  | 2068.1  |
| 77.5° | 1662.3  | 1271.3  | 886.8   | 850.8   | 868.8   | 1027.5  | 1290.9  | 1477.4  | 1754.0  | 1920.8  | 1911.0  |
| 80°   | 1004.6  | 908.1   | 708.5   | 685.5   | 703.5   | 878.6   | 1194.4  | 1402.2  | 1533.1  | 1641.1  | 1641.1  |
| 82.5° | 525.2   | 554.7   | 520.3   | 502.3   | 526.8   | 713.4   | 1086.4  | 1223.8  | 1354.7  | 1163.3  | 1086.4  |
| 85°   | 214.3   | 289.6   | 315.8   | 314.1   | 328.9   | 494.1   | 937.5   | 1047.1  | 873.7   | 829.5   | 849.2   |
| 87.5° | 72.0    | 122.7   | 153.8   | 132.5   | 139.1   | 310.9   | 649.6   | 505.6   | 600.5   | 418.9   | 397.6   |
| 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)