

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: P324710

Luminaire Tested: **GAN-SA6A-727-U-AFL-HSS**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P324710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-727-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19082 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

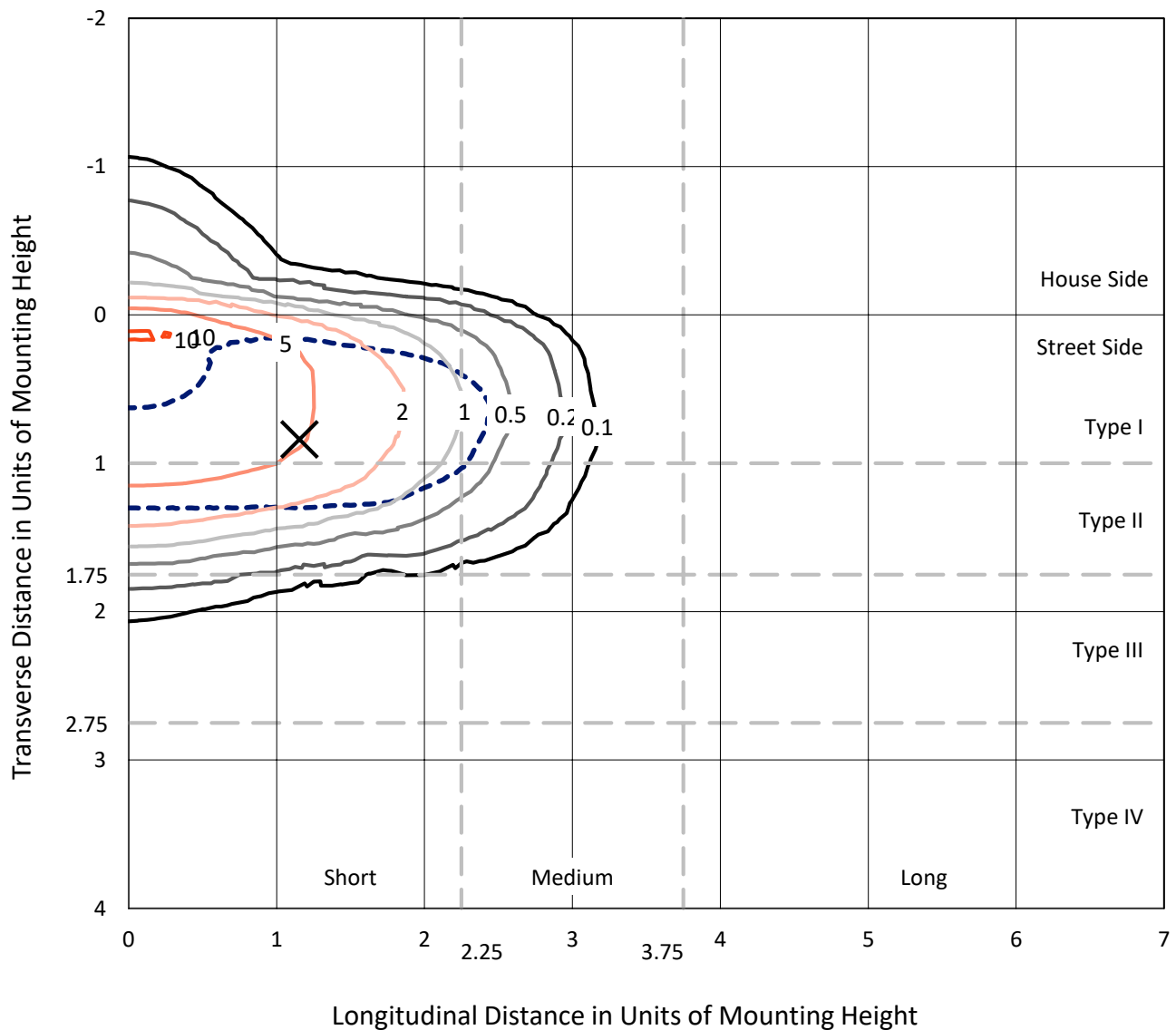
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324710  
CATALOG NUMBER: GAN-SA6A-727-U-AFL-HSS

## Iso-Footcandle Lines of Horizontal Illumination

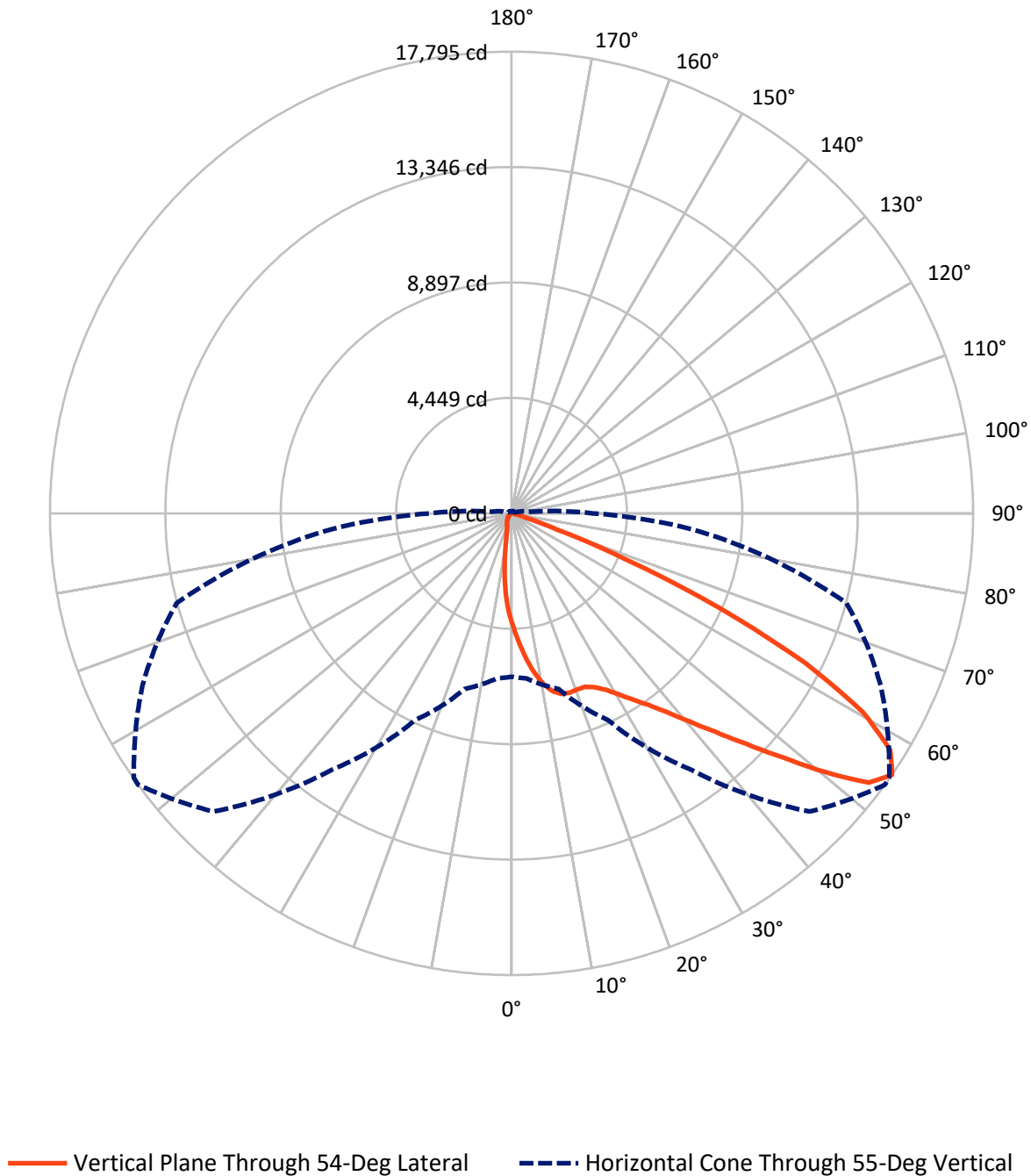
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
Type II - Short - N/A

REPORT NUMBER: P324710  
CATALOG NUMBER: GAN-SA6A-727-U-AFL-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P324710

CATALOG NUMBER: GAN-SA6A-727-U-AFL-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 952.0    | 0.0    | 952.0   |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 18130.0  | 0.0    | 18130.0 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 19082.0  | 0.0    | 19082.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 393.5   | 2.1       |
| 10°-20°   | 1079.3  | 5.7       |
| 20°-30°   | 1842.8  | 9.7       |
| 30°-40°   | 2957.3  | 15.5      |
| 40°-50°   | 4725.8  | 24.8      |
| 50°-60°   | 5063.8  | 26.5      |
| 60°-70°   | 2599.9  | 13.6      |
| 70°-80°   | 393.8   | 2.1       |
| 80°-90°   | 25.6    | 0.1       |
| 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°    | 19082.0 | 100.0     |
| 0°-180°   | 19082.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P324710

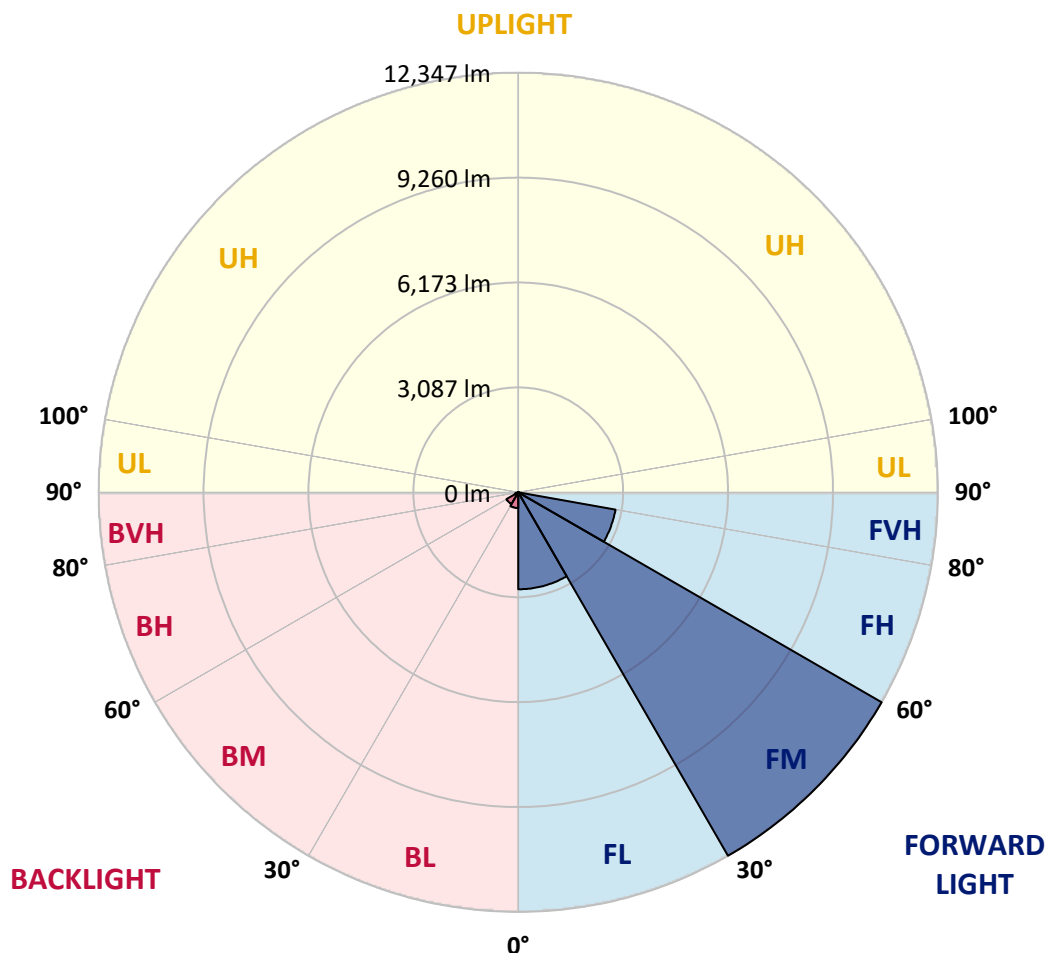
CATALOG NUMBER: GAN-SA6A-727-U-AFL-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2852.4  | 14.9      |                         |      |         |
| FM   | (30°-60°)   | 12346.9 | 64.7      |                         |      |         |
| FH   | (60°-80°)   | 2906.0  | 15.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 24.6    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 463.2   | 2.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 400.1   | 2.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 87.7    | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.0     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type II Short





REPORT NUMBER: P324710

CATALOG NUMBER: GAN-SA6A-727-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6  | 4273.6 |
| 2.5°  | 5363.0  | 5283.1  | 5285.6  | 5249.3  | 5116.6  | 5012.8  | 4904.8  | 4879.3  | 4711.2  | 4534.8  | 4365.1 |
| 5°    | 6290.1  | 6231.6  | 6217.6  | 6147.5  | 5962.9  | 5767.6  | 5558.3  | 5509.7  | 5180.9  | 4820.0  | 4464.8 |
| 7.5°  | 6766.4  | 6767.2  | 6755.7  | 6730.1  | 6614.8  | 6425.2  | 6169.8  | 6118.7  | 5671.2  | 5129.8  | 4568.6 |
| 10°   | 6628.0  | 6659.3  | 6723.5  | 6808.4  | 6896.6  | 6872.7  | 6680.7  | 6634.5  | 6148.4  | 5457.8  | 4684.0 |
| 12.5° | 6304.9  | 6309.0  | 6380.7  | 6520.0  | 6773.8  | 7034.2  | 7037.5  | 7021.9  | 6604.1  | 5800.6  | 4810.9 |
| 15°   | 6144.2  | 6159.9  | 6186.3  | 6276.1  | 6516.7  | 6933.7  | 7232.0  | 7254.2  | 7021.9  | 6164.8  | 4946.0 |
| 17.5° | 6249.7  | 6272.0  | 6249.7  | 6260.4  | 6399.7  | 6774.6  | 7265.8  | 7322.6  | 7386.9  | 6524.9  | 5073.8 |
| 20°   | 6535.7  | 6556.3  | 6516.7  | 6473.0  | 6500.2  | 6728.5  | 7241.9  | 7318.5  | 7672.9  | 6844.7  | 5180.9 |
| 22.5° | 6921.3  | 6929.6  | 6869.4  | 6797.7  | 6777.9  | 6885.1  | 7261.7  | 7340.8  | 7902.0  | 7133.9  | 5248.5 |
| 25°   | 7345.7  | 7353.1  | 7278.1  | 7195.7  | 7148.8  | 7192.4  | 7424.0  | 7483.3  | 8103.9  | 7410.0  | 5287.2 |
| 27.5° | 7808.0  | 7814.6  | 7720.7  | 7619.3  | 7564.9  | 7566.6  | 7691.8  | 7755.3  | 8318.9  | 7724.8  | 5318.5 |
| 30°   | 8296.7  | 8293.4  | 8206.9  | 8066.0  | 7996.7  | 7995.1  | 8077.5  | 8141.8  | 8630.4  | 8128.6  | 5361.4 |
| 32.5° | 8845.5  | 8838.9  | 8716.1  | 8541.4  | 8463.1  | 8474.7  | 8548.0  | 8585.1  | 9016.9  | 8558.7  | 5438.0 |
| 35°   | 9568.2  | 9549.3  | 9363.9  | 9147.1  | 9002.9  | 8998.8  | 9060.6  | 9090.3  | 9509.7  | 9079.6  | 5565.7 |
| 37.5° | 10506.0 | 10488.7 | 10237.4 | 9922.6  | 9719.8  | 9644.0  | 9717.4  | 9755.3  | 10212.6 | 9747.9  | 5770.9 |
| 40°   | 11430.6 | 11413.3 | 11264.1 | 10975.7 | 10663.4 | 10481.3 | 10539.0 | 10579.3 | 11090.3 | 10558.7 | 6029.7 |
| 42.5° | 12068.4 | 12083.3 | 12135.2 | 12159.1 | 11866.5 | 11484.2 | 11510.5 | 11552.6 | 12012.4 | 11425.7 | 6325.5 |
| 45°   | 12236.5 | 12268.7 | 12562.0 | 13138.1 | 13247.7 | 12949.4 | 12673.3 | 12696.4 | 12949.4 | 12292.6 | 6621.4 |
| 47.5° | 11731.4 | 11790.7 | 12356.9 | 13428.1 | 14356.0 | 14567.0 | 14044.5 | 14014.1 | 13848.4 | 12993.9 | 6831.5 |
| 50°   | 10583.5 | 10637.9 | 11371.3 | 12956.0 | 14692.3 | 16111.3 | 15687.7 | 15597.9 | 14637.0 | 13413.3 | 6905.7 |
| 52.5° | 8922.2  | 8988.1  | 9583.9  | 11469.3 | 14058.6 | 16800.2 | 17243.6 | 17168.6 | 15215.5 | 13446.3 | 6918.0 |
| 55°   | 6300.8  | 6380.7  | 7011.1  | 8790.3  | 12050.3 | 16252.2 | 17794.9 | 17772.6 | 15696.0 | 13358.9 | 6944.4 |
| 57.5° | 3541.0  | 3598.7  | 4278.5  | 5635.0  | 8825.7  | 14155.8 | 17218.8 | 17366.4 | 15986.0 | 13207.3 | 6984.0 |
| 60°   | 1572.3  | 1588.0  | 1939.8  | 2805.1  | 5166.9  | 10818.3 | 15569.9 | 15818.8 | 15737.2 | 13004.6 | 7050.7 |
| 62.5° | 871.9   | 858.7   | 858.7   | 1166.1  | 2245.6  | 6697.2  | 12696.4 | 13107.6 | 14675.0 | 12764.8 | 7054.0 |
| 65°   | 683.2   | 670.8   | 635.4   | 640.3   | 855.4   | 2972.4  | 8792.0  | 9522.9  | 12657.6 | 12061.8 | 6816.7 |
| 67.5° | 579.3   | 568.6   | 533.2   | 519.2   | 531.5   | 980.6   | 4830.7  | 5589.6  | 9604.5  | 10234.9 | 5904.4 |
| 70°   | 489.5   | 482.1   | 463.9   | 446.6   | 415.3   | 484.6   | 1848.4  | 2364.2  | 5918.4  | 6808.4  | 4030.5 |
| 72.5° | 393.9   | 390.6   | 397.2   | 382.4   | 344.5   | 323.0   | 632.1   | 765.6   | 2658.4  | 3038.3  | 1660.5 |
| 75°   | 339.5   | 337.9   | 341.2   | 326.3   | 283.5   | 225.0   | 321.4   | 351.1   | 749.9   | 743.3   | 336.2  |
| 77.5° | 220.8   | 223.3   | 282.7   | 276.1   | 243.9   | 150.0   | 166.5   | 179.6   | 227.4   | 170.6   | 102.2  |
| 80°   | 140.9   | 139.3   | 143.4   | 229.1   | 219.2   | 114.5   | 83.2    | 87.4    | 109.6   | 84.1    | 49.4   |
| 82.5° | 85.7    | 84.1    | 93.9    | 107.1   | 110.4   | 79.9    | 51.1    | 51.9    | 68.4    | 54.4    | 26.4   |
| 85°   | 7.4     | 9.9     | 56.9    | 52.7    | 37.9    | 24.7    | 24.7    | 26.4    | 36.3    | 32.1    | 14.8   |
| 87.5° | 0.0     | 0.0     | 9.9     | 14.8    | 8.2     | 9.1     | 9.1     | 9.9     | 14.0    | 14.0    | 7.4    |
| 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: P324710

CATALOG NUMBER: GAN-SA6A-727-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 | 4273.6 |
| 2.5°  | 4276.9 | 4191.2 | 4018.1 | 3851.7 | 3710.8 | 3574.8 | 3419.9 | 3266.6 | 3194.9 | 3166.1 | 3136.4 |
| 5°    | 4284.3 | 4108.0 | 3751.1 | 3391.9 | 3019.4 | 2684.0 | 2398.0 | 2104.7 | 1958.0 | 1893.7 | 1864.0 |
| 7.5°  | 4294.2 | 4025.6 | 3448.7 | 2845.5 | 2245.6 | 1790.7 | 1393.5 | 1138.0 | 1027.6 | 1010.3 | 967.5  |
| 10°   | 4295.9 | 3925.8 | 3097.7 | 2242.3 | 1505.6 | 1079.5 | 830.7  | 698.8  | 650.2  | 641.9  | 627.9  |
| 12.5° | 4299.1 | 3808.0 | 2707.9 | 1660.5 | 1003.7 | 721.9  | 600.7  | 557.1  | 543.9  | 543.1  | 543.1  |
| 15°   | 4309.0 | 3684.4 | 2303.3 | 1196.5 | 721.1  | 571.9  | 527.4  | 510.1  | 505.2  | 507.6  | 506.8  |
| 17.5° | 4309.0 | 3538.5 | 1906.1 | 891.6  | 582.6  | 514.2  | 489.5  | 478.0  | 476.3  | 478.8  | 479.6  |
| 20°   | 4277.7 | 3361.4 | 1541.8 | 693.9  | 516.7  | 477.1  | 454.9  | 444.2  | 440.1  | 441.7  | 442.5  |
| 22.5° | 4202.7 | 3143.8 | 1245.2 | 574.4  | 473.0  | 443.3  | 419.4  | 403.0  | 396.4  | 397.2  | 397.2  |
| 25°   | 4085.7 | 2885.9 | 974.0  | 496.9  | 437.6  | 407.1  | 379.1  | 360.1  | 356.0  | 355.2  | 356.8  |
| 27.5° | 3935.7 | 2600.7 | 775.4  | 437.6  | 395.6  | 366.7  | 338.7  | 323.0  | 319.7  | 320.6  | 321.4  |
| 30°   | 3788.2 | 2304.9 | 611.5  | 387.3  | 348.6  | 321.4  | 300.0  | 292.5  | 292.5  | 295.0  | 295.8  |
| 32.5° | 3653.1 | 2020.6 | 483.7  | 343.6  | 306.6  | 281.8  | 269.5  | 268.6  | 272.8  | 274.4  | 275.2  |
| 35°   | 3536.9 | 1757.7 | 400.5  | 309.8  | 273.6  | 252.2  | 248.0  | 251.3  | 256.3  | 259.6  | 260.4  |
| 37.5° | 3454.5 | 1522.9 | 350.2  | 281.8  | 248.0  | 230.7  | 229.9  | 236.5  | 243.1  | 250.5  | 252.2  |
| 40°   | 3419.9 | 1324.3 | 315.6  | 257.1  | 227.4  | 214.3  | 211.8  | 220.8  | 233.2  | 243.9  | 245.6  |
| 42.5° | 3391.0 | 1161.9 | 286.0  | 233.2  | 211.0  | 192.0  | 191.2  | 202.7  | 217.6  | 228.3  | 230.7  |
| 45°   | 3366.3 | 1031.7 | 258.8  | 207.7  | 189.5  | 164.8  | 167.3  | 182.1  | 193.7  | 205.2  | 207.7  |
| 47.5° | 3315.2 | 924.6  | 229.1  | 180.5  | 156.6  | 140.9  | 145.9  | 159.0  | 168.1  | 185.4  | 187.9  |
| 50°   | 3223.7 | 837.3  | 198.6  | 147.5  | 127.7  | 122.0  | 129.4  | 138.4  | 150.0  | 164.8  | 166.5  |
| 52.5° | 3161.9 | 771.3  | 172.2  | 123.6  | 105.5  | 107.1  | 114.5  | 117.8  | 124.4  | 130.2  | 128.6  |
| 55°   | 3126.5 | 735.1  | 150.8  | 107.1  | 89.8   | 94.8   | 96.4   | 92.3   | 89.0   | 83.2   | 80.8   |
| 57.5° | 3122.4 | 702.1  | 134.3  | 93.1   | 79.1   | 81.6   | 75.8   | 61.8   | 50.3   | 43.7   | 42.0   |
| 60°   | 3115.8 | 661.7  | 121.1  | 78.3   | 70.0   | 66.7   | 54.4   | 33.8   | 23.9   | 22.2   | 22.2   |
| 62.5° | 3044.1 | 599.1  | 111.2  | 65.9   | 59.3   | 50.3   | 31.3   | 15.7   | 13.2   | 14.0   | 14.0   |
| 65°   | 2815.8 | 511.7  | 101.4  | 53.6   | 47.0   | 36.3   | 15.7   | 9.1    | 4.9    | 5.8    | 5.8    |
| 67.5° | 2393.9 | 407.9  | 90.6   | 41.2   | 35.4   | 23.1   | 9.1    | 4.1    | 0.0    | 0.0    | 0.0    |
| 70°   | 1602.8 | 253.0  | 76.6   | 28.8   | 23.1   | 14.0   | 6.6    | 0.8    | 0.0    | 0.0    | 0.0    |
| 72.5° | 614.8  | 136.8  | 61.8   | 17.3   | 14.8   | 9.9    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 138.4  | 89.8   | 42.9   | 12.4   | 10.7   | 6.6    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 52.7   | 65.1   | 24.7   | 8.2    | 7.4    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 25.5   | 38.7   | 11.5   | 4.9    | 4.1    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 13.2   | 14.8   | 4.9    | 2.5    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 7.4    | 7.4    | 2.5    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.1    | 2.5    | 0.8    | 0.8    | 0.0    | 0.0    | 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)