

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: P321220

Luminaire Tested: **GAN-SA6D-727-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31326 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

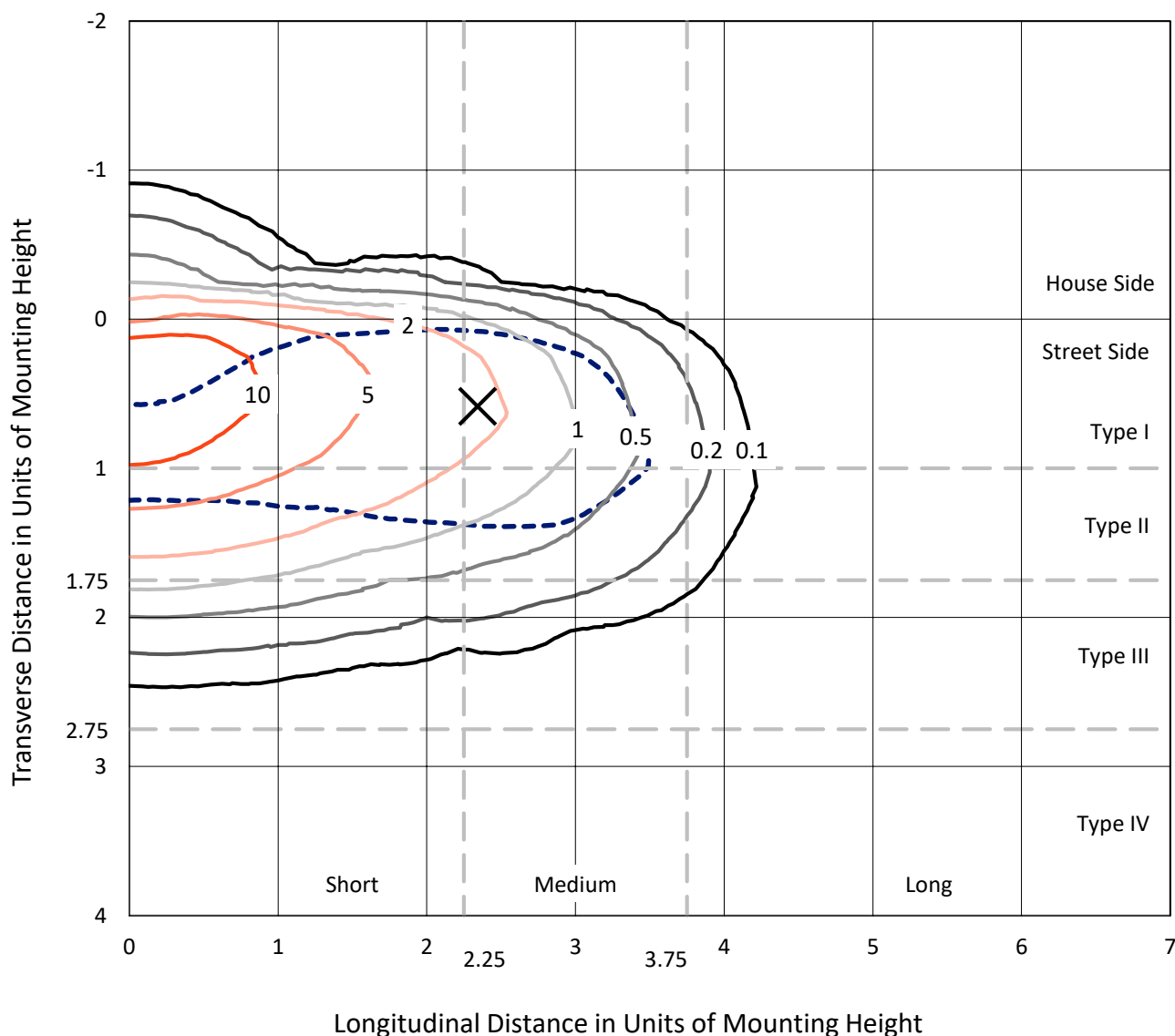
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P321220  
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## Iso-Footcandle Lines of Horizontal Illumination

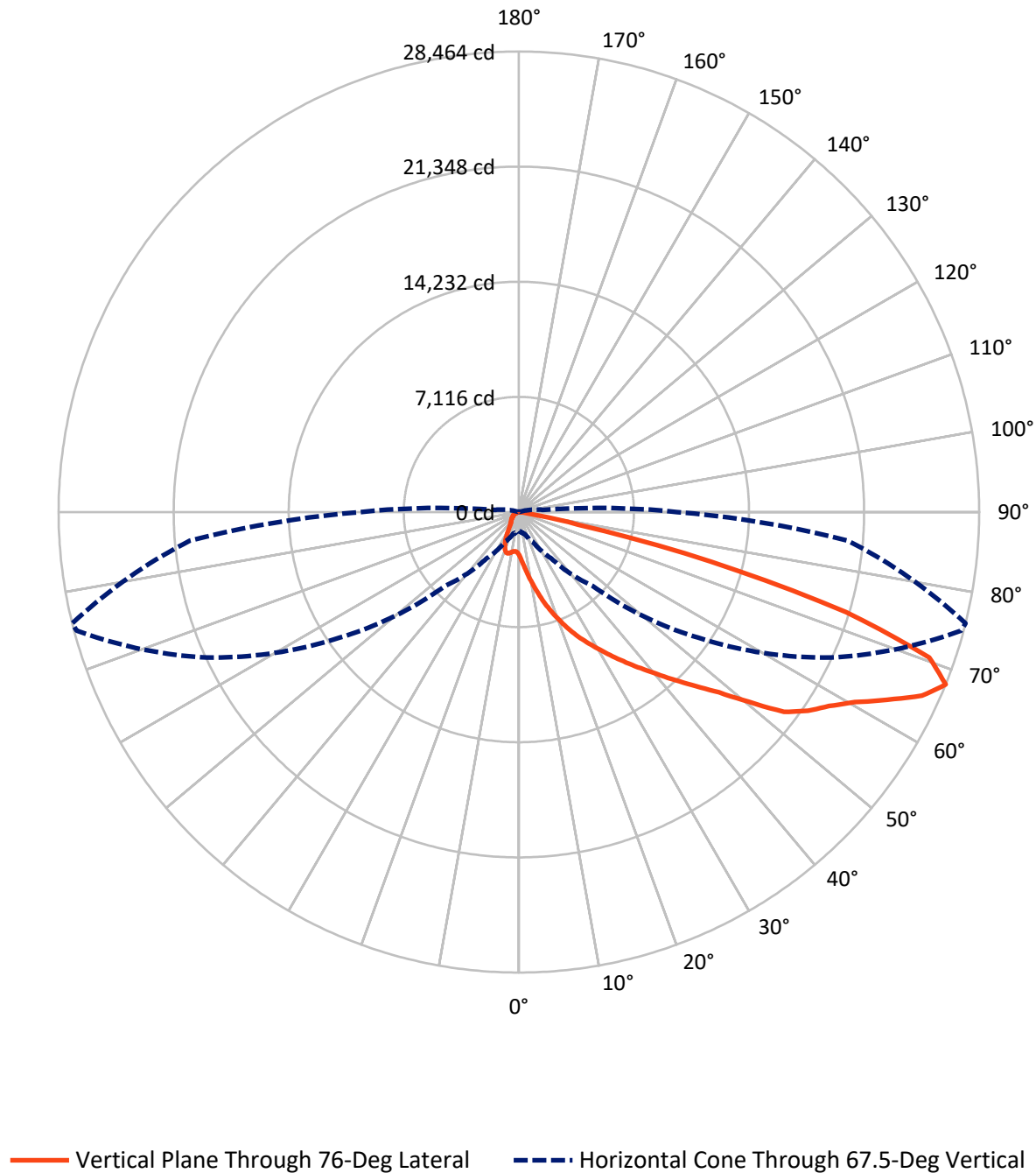
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1555.6   | 0.0    | 1555.6  |
|                    | % Fixture | 5.0      | 0.0    | 5.0     |
| <b>Street Side</b> | Lumens    | 29770.4  | 0.0    | 29770.4 |
|                    | % Fixture | 95.0     | 0.0    | 95.0    |
| <b>Total</b>       | Lumens    | 31326.0  | 0.0    | 31326.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 330.4   | 1.1       |
| 10°-20°   | 1309.9  | 4.2       |
| 20°-30°   | 2665.2  | 8.5       |
| 30°-40°   | 4626.0  | 14.8      |
| 40°-50°   | 6535.9  | 20.9      |
| 50°-60°   | 7412.0  | 23.7      |
| 60°-70°   | 6147.6  | 19.6      |
| 70°-80°   | 2226.8  | 7.1       |
| 80°-90°   | 72.2    | 0.2       |
| 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°    | 31326.0 | 100.0     |
| 0°-180°   | 31326.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P321220

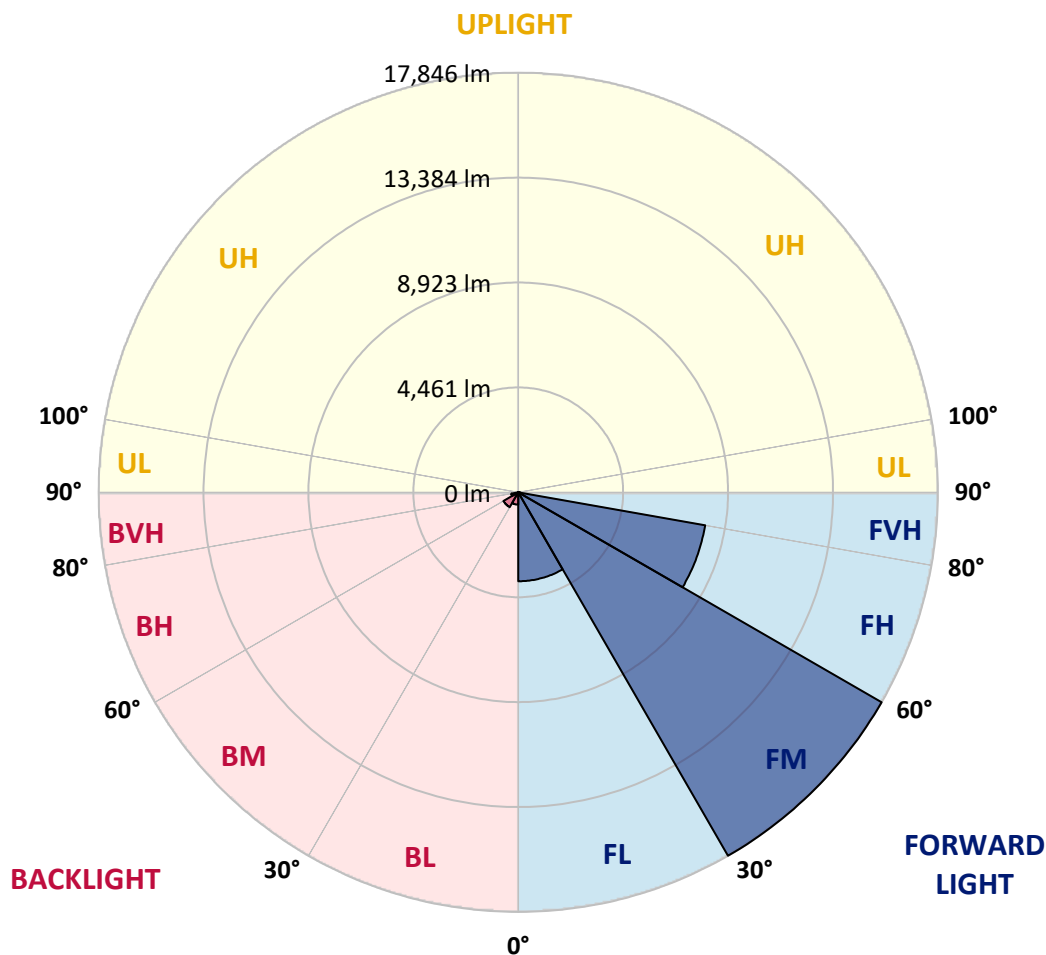
CATALOG NUMBER: GAN-SA6D-727-U-T2R-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3780.9  | 12.1      |                         |      |          |
| FM   | (30°-60°)   | 17845.8 | 57.0      |                         |      |          |
| FH   | (60°-80°)   | 8073.8  | 25.8      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 69.9    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 524.6   | 1.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 728.1   | 2.3       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 300.6   | 1.0       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.3     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Medium



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CATALOG NUMBER: GAN-SA6D-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  | 2657.4  |
| 2.5°  | 3966.8  | 3877.6  | 3898.2  | 3840.5  | 3736.2  | 3522.1  | 3339.5  | 3166.6  | 2964.8  | 2958.0  | 2791.9  |
| 5°    | 5349.0  | 5273.5  | 5263.9  | 5147.2  | 4957.8  | 4594.1  | 4240.0  | 3836.4  | 3386.2  | 3353.3  | 3000.5  |
| 7.5°  | 6603.6  | 6543.2  | 6521.2  | 6382.6  | 6029.8  | 5675.7  | 5214.5  | 4621.5  | 3917.4  | 3857.0  | 3281.9  |
| 10°   | 7567.1  | 7538.3  | 7543.8  | 7445.0  | 7143.0  | 6813.6  | 6208.3  | 5452.0  | 4520.0  | 4426.6  | 3619.5  |
| 12.5° | 8297.4  | 8304.2  | 8353.6  | 8293.2  | 8124.4  | 7880.1  | 7233.6  | 6337.3  | 5187.1  | 5059.4  | 4005.2  |
| 15°   | 8834.0  | 8868.4  | 8959.0  | 9034.4  | 9022.1  | 8810.7  | 8217.8  | 7236.3  | 5895.3  | 5753.9  | 4434.9  |
| 17.5° | 9181.3  | 9219.7  | 9351.5  | 9519.0  | 9672.7  | 9623.3  | 9167.6  | 8103.8  | 6611.8  | 6448.5  | 4894.7  |
| 20°   | 9486.0  | 9531.3  | 9672.7  | 9893.7  | 10180.6 | 10242.3 | 9943.1  | 8945.2  | 7326.9  | 7127.9  | 5369.6  |
| 22.5° | 10146.3 | 10144.9 | 10231.4 | 10360.4 | 10633.5 | 10792.7 | 10603.3 | 9726.2  | 8033.8  | 7826.6  | 5854.1  |
| 25°   | 11340.4 | 11295.1 | 11264.9 | 11163.3 | 11223.7 | 11322.6 | 11216.9 | 10456.5 | 8744.8  | 8534.8  | 6345.5  |
| 27.5° | 12759.7 | 12787.1 | 12542.8 | 12269.7 | 12058.3 | 11956.7 | 11783.8 | 11133.2 | 9428.4  | 9197.8  | 6825.9  |
| 30°   | 14257.2 | 14265.4 | 13977.2 | 13628.5 | 13163.2 | 12777.5 | 12478.3 | 11779.6 | 10131.2 | 9880.0  | 7292.6  |
| 32.5° | 15607.8 | 15554.3 | 15268.8 | 14793.9 | 14206.4 | 13772.7 | 13150.9 | 12501.6 | 10875.1 | 10632.2 | 7811.5  |
| 35°   | 16678.5 | 16615.3 | 16268.0 | 15835.7 | 15226.2 | 14789.8 | 14041.7 | 13222.2 | 11657.5 | 11420.0 | 8331.7  |
| 37.5° | 17460.8 | 17386.7 | 17029.8 | 16585.1 | 16059.4 | 15805.5 | 15075.3 | 14006.0 | 12511.2 | 12255.9 | 8879.3  |
| 40°   | 17732.6 | 17668.1 | 17444.4 | 17119.1 | 16696.3 | 16638.6 | 16172.0 | 14907.8 | 13440.5 | 13168.7 | 9499.8  |
| 42.5° | 17570.6 | 17507.5 | 17427.9 | 17318.1 | 17142.4 | 17197.3 | 17206.9 | 15935.9 | 14472.7 | 14205.0 | 10184.7 |
| 45°   | 16928.3 | 16872.0 | 16954.3 | 17114.9 | 17333.2 | 17605.0 | 18151.3 | 17040.8 | 15625.7 | 15340.2 | 10976.7 |
| 47.5° | 15982.5 | 15941.4 | 16169.2 | 16570.0 | 17208.3 | 17957.7 | 19014.6 | 18202.0 | 16920.0 | 16655.1 | 11964.9 |
| 50°   | 14637.4 | 14630.5 | 15086.2 | 15817.8 | 16799.2 | 18127.9 | 19906.8 | 19522.5 | 18718.1 | 18439.5 | 13338.9 |
| 52.5° | 12542.8 | 12556.5 | 13452.8 | 14623.7 | 16081.4 | 18012.6 | 20480.6 | 21219.0 | 20810.0 | 20520.4 | 14529.0 |
| 55°   | 10548.4 | 10630.8 | 11266.3 | 12954.6 | 14980.5 | 17584.4 | 20678.2 | 22011.0 | 21964.3 | 21689.8 | 15190.6 |
| 57.5° | 8595.2  | 8744.8  | 9357.0  | 10934.1 | 13373.2 | 16597.5 | 20569.8 | 22354.2 | 22823.6 | 22613.6 | 16063.5 |
| 60°   | 6478.7  | 6547.3  | 7252.8  | 8727.0  | 11310.2 | 14796.6 | 19783.3 | 22540.8 | 23998.5 | 23853.0 | 17330.4 |
| 62.5° | 4121.9  | 4293.5  | 4919.4  | 6341.4  | 8806.6  | 12295.7 | 18457.3 | 22538.1 | 25468.6 | 25548.2 | 18965.2 |
| 65°   | 2171.5  | 2371.9  | 2704.0  | 3929.8  | 6051.8  | 9502.5  | 16463.0 | 22326.7 | 27272.2 | 27383.4 | 20243.1 |
| 67.5° | 1170.8  | 1228.5  | 1404.2  | 2039.7  | 3509.7  | 6437.5  | 13532.5 | 21283.5 | 28316.7 | 28463.6 | 20421.5 |
| 70°   | 856.5   | 888.1   | 954.0   | 1128.3  | 1766.5  | 3739.0  | 9874.5  | 18918.5 | 26970.2 | 26915.3 | 18144.4 |
| 72.5° | 657.5   | 706.9   | 756.3   | 826.3   | 1015.7  | 1995.8  | 6147.9  | 14814.5 | 21519.6 | 21157.2 | 13562.7 |
| 75°   | 518.8   | 527.1   | 597.1   | 660.2   | 761.8   | 1136.5  | 2730.1  | 8628.2  | 13134.4 | 12276.5 | 7033.2  |
| 77.5° | 414.5   | 420.0   | 461.2   | 516.1   | 612.2   | 746.7   | 845.5   | 3394.4  | 4193.3  | 3741.7  | 1526.3  |
| 80°   | 245.7   | 259.4   | 343.1   | 398.1   | 507.9   | 470.8   | 308.8   | 737.1   | 654.7   | 593.0   | 256.7   |
| 82.5° | 137.3   | 148.2   | 193.5   | 314.3   | 354.1   | 225.1   | 153.7   | 199.0   | 153.7   | 149.6   | 72.7    |
| 85°   | 0.0     | 6.9     | 124.9   | 194.9   | 144.1   | 49.4    | 64.5    | 65.9    | 45.3    | 42.6    | 28.8    |
| 87.5° | 0.0     | 0.0     | 38.4    | 37.1    | 5.5     | 8.2     | 15.1    | 22.0    | 17.8    | 17.8    | 15.1    |
| 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: P321220

CATALOG NUMBER: GAN-SA6D-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2657.4  | 2657.4 | 2657.4 | 2657.4 | 2657.4 | 2657.4 | 2657.4 | 2657.4 | 2657.4 | 2657.4 | 2657.4 |
| 2.5°  | 2709.5  | 2635.4 | 2495.4 | 2358.1 | 2242.8 | 2148.1 | 2063.0 | 2028.7 | 2001.2 | 1997.1 | 1975.2 |
| 5°    | 2830.3  | 2680.7 | 2413.0 | 2193.4 | 2046.5 | 1942.2 | 1853.0 | 1798.1 | 1755.6 | 1739.1 | 1724.0 |
| 7.5°  | 3012.9  | 2786.4 | 2402.0 | 2149.5 | 1973.8 | 1798.1 | 1633.4 | 1455.0 | 1343.8 | 1301.2 | 1276.5 |
| 10°   | 3235.2  | 2926.4 | 2443.2 | 2137.1 | 1829.7 | 1459.1 | 1185.9 | 959.4  | 867.5  | 837.3  | 829.0  |
| 12.5° | 3494.6  | 3100.7 | 2514.6 | 2060.3 | 1522.2 | 1036.3 | 818.1  | 741.2  | 720.6  | 711.0  | 711.0  |
| 15°   | 3792.5  | 3291.5 | 2565.4 | 1837.9 | 1125.5 | 783.8  | 708.3  | 672.6  | 650.6  | 638.3  | 639.6  |
| 17.5° | 4097.2  | 3478.2 | 2540.7 | 1515.3 | 830.4  | 697.3  | 641.0  | 602.6  | 572.4  | 560.0  | 557.3  |
| 20°   | 4404.7  | 3651.1 | 2403.4 | 1128.3 | 702.8  | 632.8  | 569.6  | 527.1  | 496.9  | 484.5  | 481.8  |
| 22.5° | 4723.1  | 3798.0 | 2161.8 | 827.7  | 631.4  | 561.4  | 499.6  | 457.1  | 428.3  | 417.3  | 411.8  |
| 25°   | 5033.3  | 3917.4 | 1824.2 | 669.8  | 564.1  | 494.1  | 435.1  | 395.3  | 369.2  | 358.2  | 356.9  |
| 27.5° | 5322.9  | 3992.9 | 1433.0 | 591.6  | 505.1  | 433.7  | 380.2  | 344.5  | 322.6  | 314.3  | 313.0  |
| 30°   | 5583.7  | 3999.8 | 1059.6 | 533.9  | 453.0  | 381.6  | 332.2  | 300.6  | 281.4  | 273.1  | 270.4  |
| 32.5° | 5847.3  | 3942.1 | 771.4  | 481.8  | 404.9  | 336.3  | 288.2  | 263.5  | 249.8  | 243.0  | 243.0  |
| 35°   | 6095.7  | 3809.0 | 601.2  | 436.5  | 358.2  | 292.4  | 253.9  | 236.1  | 227.9  | 221.0  | 221.0  |
| 37.5° | 6338.7  | 3618.2 | 510.6  | 396.7  | 314.3  | 255.3  | 223.7  | 212.8  | 205.9  | 199.0  | 199.0  |
| 40°   | 6585.7  | 3378.0 | 463.9  | 359.6  | 278.6  | 226.5  | 199.0  | 189.4  | 182.6  | 177.1  | 175.7  |
| 42.5° | 6889.1  | 3100.7 | 433.7  | 325.3  | 247.1  | 200.4  | 175.7  | 164.7  | 159.2  | 153.7  | 151.0  |
| 45°   | 7240.5  | 2861.9 | 409.0  | 291.0  | 221.0  | 178.4  | 152.4  | 141.4  | 133.1  | 126.3  | 124.9  |
| 47.5° | 7746.9  | 2688.9 | 376.1  | 253.9  | 196.3  | 155.1  | 131.8  | 119.4  | 107.1  | 100.2  | 98.8   |
| 50°   | 8393.4  | 2546.2 | 333.5  | 221.0  | 171.6  | 131.8  | 109.8  | 94.7   | 83.7   | 76.9   | 76.9   |
| 52.5° | 8714.6  | 2359.5 | 295.1  | 192.2  | 144.1  | 111.2  | 89.2   | 71.4   | 65.9   | 59.0   | 59.0   |
| 55°   | 8843.7  | 2216.7 | 256.7  | 163.3  | 119.4  | 92.0   | 70.0   | 54.9   | 50.8   | 46.7   | 45.3   |
| 57.5° | 9206.0  | 2175.6 | 223.7  | 138.6  | 98.8   | 72.7   | 53.5   | 41.2   | 38.4   | 32.9   | 32.9   |
| 60°   | 9789.4  | 2196.2 | 193.5  | 118.0  | 79.6   | 56.3   | 39.8   | 31.6   | 28.8   | 23.3   | 23.3   |
| 62.5° | 10419.4 | 2170.1 | 163.3  | 101.6  | 61.8   | 41.2   | 27.5   | 23.3   | 23.3   | 13.7   | 12.4   |
| 65°   | 10540.2 | 1932.6 | 140.0  | 83.7   | 48.0   | 30.2   | 17.8   | 15.1   | 20.6   | 2.7    | 0.0    |
| 67.5° | 9782.5  | 1498.9 | 120.8  | 64.5   | 35.7   | 23.3   | 13.7   | 6.9    | 17.8   | 0.0    | 0.0    |
| 70°   | 7822.4  | 952.6  | 97.5   | 46.7   | 27.5   | 19.2   | 11.0   | 2.7    | 13.7   | 0.0    | 0.0    |
| 72.5° | 5531.6  | 553.2  | 76.9   | 32.9   | 23.3   | 15.1   | 8.2    | 0.0    | 8.2    | 0.0    | 0.0    |
| 75°   | 2797.4  | 295.1  | 48.0   | 24.7   | 17.8   | 11.0   | 5.5    | 0.0    | 1.4    | 0.0    | 0.0    |
| 77.5° | 605.3   | 137.3  | 30.2   | 17.8   | 12.4   | 6.9    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 131.8   | 60.4   | 19.2   | 11.0   | 6.9    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 48.0    | 31.6   | 9.6    | 5.5    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 26.1    | 16.5   | 5.5    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.7    | 5.5    | 1.4    | 1.4    | 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)