

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: P323452

Luminaire Tested: **GAN-SA8C-727-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8C-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40499 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

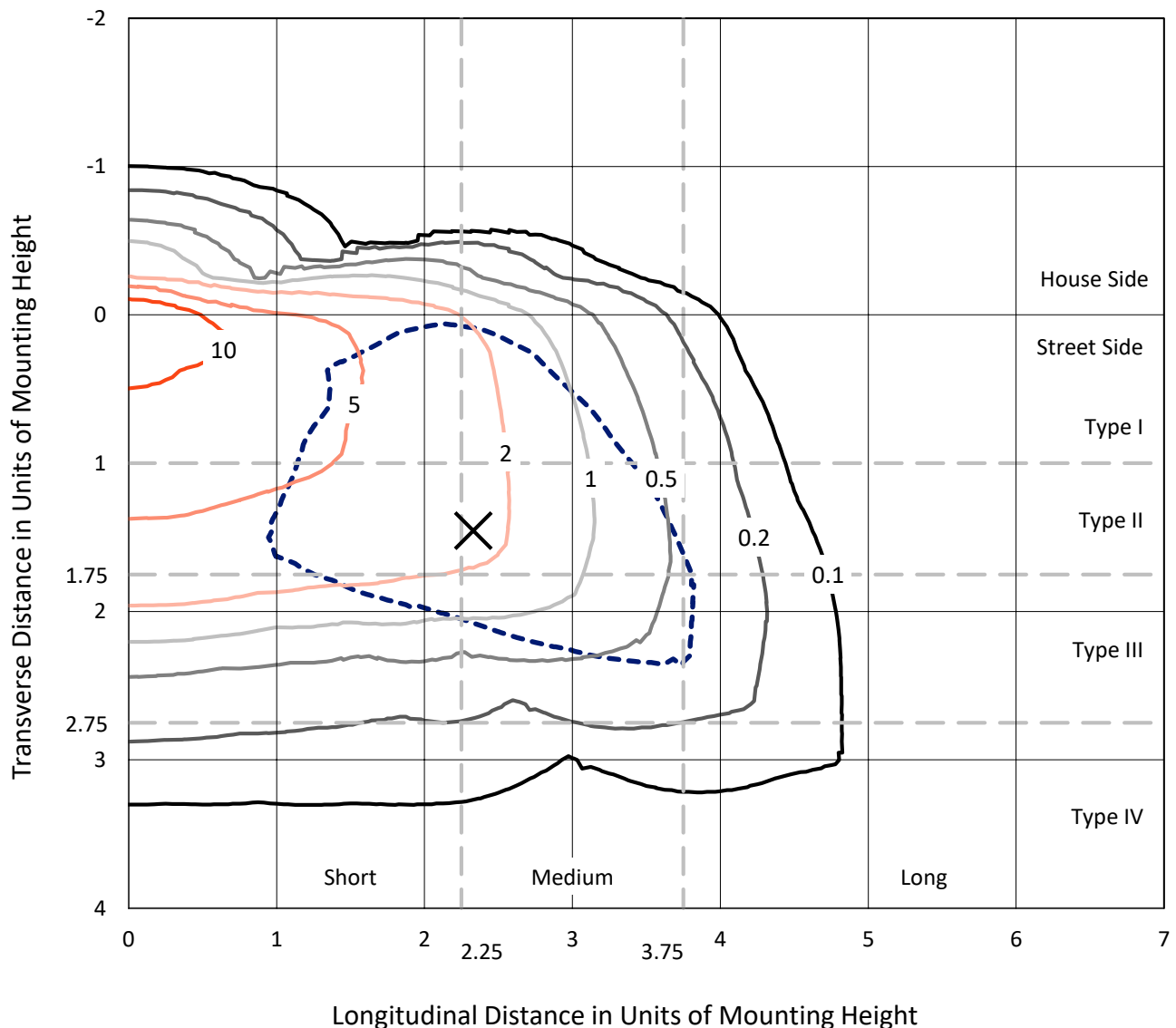
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323452  
 CATALOG NUMBER: GAN-SA8C-727-U-SL3-HSS

## Iso-Footcandle Lines of Horizontal Illumination

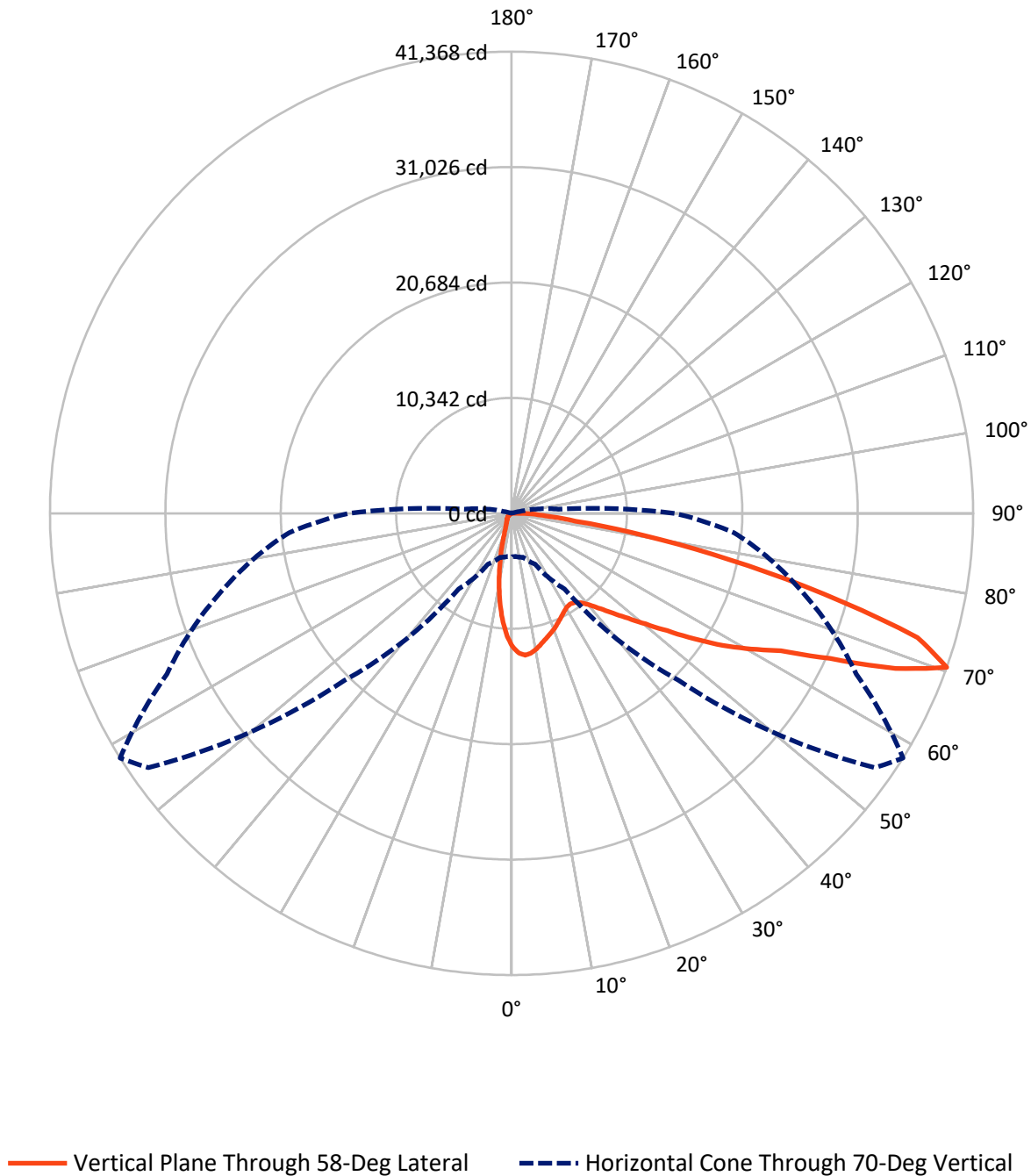
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323452  
CATALOG NUMBER: GAN-SA8C-727-U-SL3-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P323452

CATALOG NUMBER: GAN-SA8C-727-U-SL3-HSS

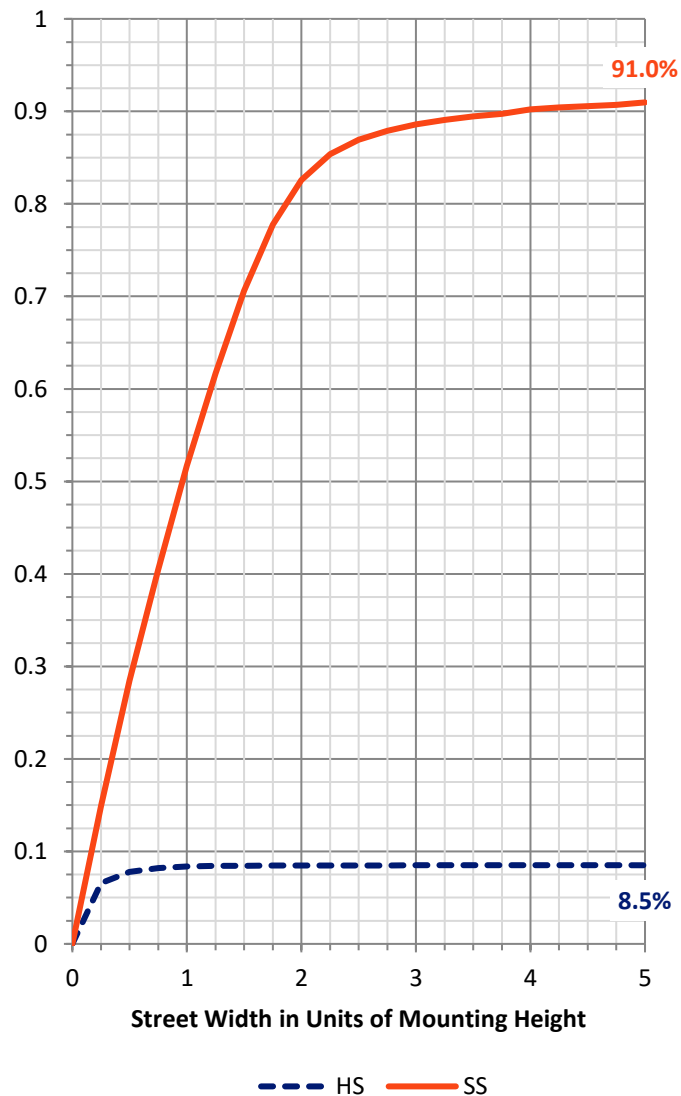
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3465.8   | 0.0    | 3465.8  |
|                    | % Fixture | 8.6      | 0.0    | 8.6     |
| <b>Street Side</b> | Lumens    | 37033.2  | 0.0    | 37033.2 |
|                    | % Fixture | 91.4     | 0.0    | 91.4    |
| <b>Total</b>       | Lumens    | 40499.0  | 0.0    | 40499.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 978.3   | 2.4       |
| 10°-20°   | 2053.2  | 5.1       |
| 20°-30°   | 2699.2  | 6.7       |
| 30°-40°   | 3574.8  | 8.8       |
| 40°-50°   | 5343.3  | 13.2      |
| 50°-60°   | 8559.7  | 21.1      |
| 60°-70°   | 10789.4 | 26.6      |
| 70°-80°   | 5819.8  | 14.4      |
| 80°-90°   | 681.2   | 1.7       |
| 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°    | 40499.0 | 100.0     |
| 0°-180°   | 40499.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P323452

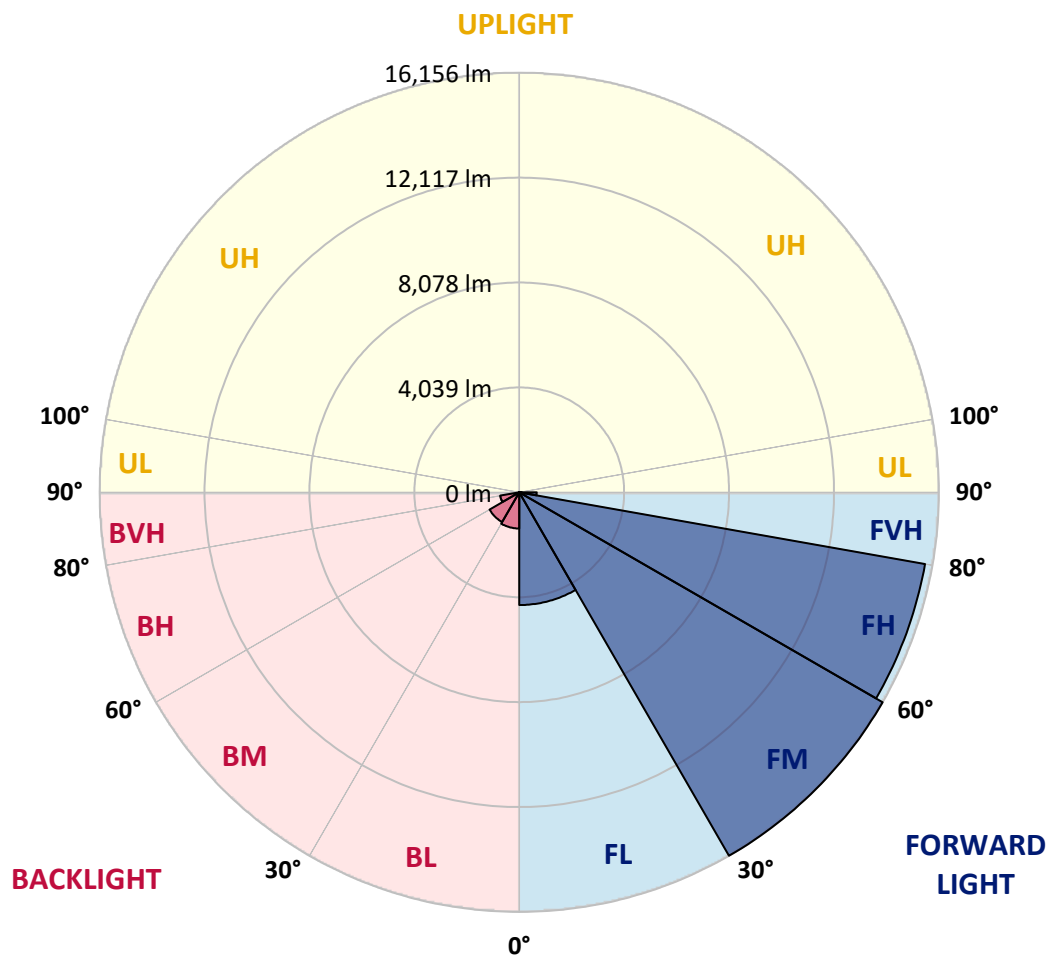
CATALOG NUMBER: GAN-SA8C-727-U-SL3-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4338.3  | 10.7      |                         |      |         |
| FM   | (30°-60°)   | 16155.7 | 39.9      |                         |      |         |
| FH   | (60°-80°)   | 15863.9 | 39.2      |                         |      | G5      |
| FVH  | (80°-90°)   | 675.3   | 1.7       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1392.4  | 3.4       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1322.2  | 3.3       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 745.3   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.9     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium



REPORT NUMBER: P323452

CATALOG NUMBER: GAN-SA8C-727-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 |
| 2.5°  | 12955.1 | 12923.1 | 12911.3 | 12891.1 | 12813.6 | 12737.9 | 12588.0 | 12545.9 | 12451.6 | 12227.6 | 11990.2 |
| 5°    | 12965.2 | 12963.5 | 12998.9 | 12990.5 | 12963.5 | 12928.2 | 12820.4 | 12764.8 | 12604.8 | 12284.9 | 11850.4 |
| 7.5°  | 12340.4 | 12372.4 | 12451.6 | 12515.6 | 12589.7 | 12685.7 | 12699.1 | 12645.2 | 12513.9 | 12168.7 | 11592.7 |
| 10°   | 11501.8 | 11552.3 | 11663.5 | 11789.8 | 11983.4 | 12175.4 | 12347.2 | 12340.4 | 12295.0 | 11954.8 | 11282.9 |
| 12.5° | 10661.5 | 10720.4 | 10848.4 | 11035.3 | 11309.8 | 11623.0 | 11929.5 | 11971.6 | 12047.4 | 11762.8 | 10996.6 |
| 15°   | 9925.6  | 9976.1  | 10102.4 | 10331.4 | 10671.6 | 11092.6 | 11542.2 | 11619.7 | 11815.0 | 11612.9 | 10757.5 |
| 17.5° | 9300.8  | 9332.8  | 9425.4  | 9679.7  | 10073.8 | 10584.0 | 11168.4 | 11319.9 | 11611.3 | 11495.1 | 10550.3 |
| 20°   | 8864.6  | 8869.7  | 8930.3  | 9108.8  | 9502.9  | 10073.8 | 10781.0 | 10998.3 | 11395.7 | 11394.0 | 10336.5 |
| 22.5° | 8649.1  | 8632.2  | 8644.0  | 8746.8  | 9036.4  | 9587.1  | 10393.7 | 10651.4 | 11202.0 | 11308.1 | 10119.2 |
| 25°   | 8608.7  | 8595.2  | 8561.5  | 8575.0  | 8750.1  | 9161.0  | 10003.0 | 10301.1 | 11032.0 | 11255.9 | 9930.6  |
| 27.5° | 8735.0  | 8748.4  | 8691.2  | 8630.6  | 8644.0  | 8884.8  | 9656.1  | 10001.3 | 10893.9 | 11255.9 | 9797.6  |
| 30°   | 8989.2  | 8996.0  | 8953.9  | 8874.7  | 8768.6  | 8807.4  | 9415.3  | 9760.5  | 10824.8 | 11333.4 | 9713.4  |
| 32.5° | 9270.5  | 9307.5  | 9302.5  | 9238.5  | 9086.9  | 8930.3  | 9358.0  | 9673.0  | 10819.8 | 11505.2 | 9705.0  |
| 35°   | 9619.1  | 9661.2  | 9731.9  | 9718.4  | 9560.1  | 9302.5  | 9553.4  | 9800.9  | 10919.1 | 11788.1 | 9795.9  |
| 37.5° | 9989.6  | 10053.5 | 10205.1 | 10277.5 | 10174.8 | 9883.5  | 9991.2  | 10168.1 | 11185.2 | 12246.1 | 10026.6 |
| 40°   | 10348.2 | 10420.7 | 10696.8 | 10981.4 | 10904.0 | 10604.2 | 10654.7 | 10796.2 | 11658.4 | 12904.6 | 10464.4 |
| 42.5° | 10700.2 | 10808.0 | 11213.8 | 11682.0 | 11774.6 | 11535.5 | 11562.4 | 11675.2 | 12360.6 | 13810.6 | 11180.1 |
| 45°   | 11121.2 | 11242.5 | 11843.6 | 12421.3 | 12668.8 | 12564.4 | 12678.9 | 12753.0 | 13278.4 | 15007.9 | 12145.1 |
| 47.5° | 11739.2 | 11879.0 | 12616.6 | 13275.1 | 13709.5 | 13776.9 | 14007.6 | 14056.4 | 14438.7 | 16402.3 | 13403.0 |
| 50°   | 12945.0 | 12983.7 | 13650.6 | 14248.4 | 14874.9 | 15279.0 | 15541.7 | 15578.8 | 15843.2 | 17926.3 | 14974.2 |
| 52.5° | 14462.3 | 14487.5 | 14864.8 | 15265.6 | 15977.9 | 16803.1 | 17417.7 | 17469.9 | 17525.5 | 19411.6 | 16525.2 |
| 55°   | 15969.5 | 15966.1 | 16215.3 | 16451.1 | 17266.2 | 18465.2 | 19798.9 | 19830.9 | 19431.8 | 20821.1 | 17710.7 |
| 57.5° | 16910.8 | 17001.8 | 17380.7 | 17683.8 | 18822.2 | 20359.7 | 22210.4 | 22328.3 | 21434.1 | 21865.2 | 18882.8 |
| 60°   | 16611.1 | 16654.9 | 17495.2 | 18616.7 | 20760.5 | 23052.4 | 24650.6 | 24680.9 | 22939.6 | 22907.6 | 20364.7 |
| 62.5° | 14152.4 | 14176.0 | 15496.3 | 17808.4 | 21742.3 | 26545.1 | 27594.2 | 27100.8 | 24670.8 | 24354.2 | 22138.0 |
| 65°   | 9699.9  | 9853.1  | 10956.2 | 13813.9 | 19938.7 | 28736.0 | 32151.1 | 31334.4 | 27309.6 | 26439.0 | 23741.2 |
| 67.5° | 5712.2  | 5680.2  | 6225.8  | 8330.8  | 14644.2 | 27281.0 | 37915.5 | 37103.8 | 30908.3 | 27835.0 | 23271.3 |
| 70°   | 3901.9  | 3880.0  | 4088.8  | 5043.6  | 8266.8  | 21163.0 | 39729.2 | 41367.7 | 34086.1 | 26895.3 | 20027.9 |
| 72.5° | 2785.4  | 2797.1  | 3105.3  | 3918.7  | 5190.1  | 12330.3 | 34165.2 | 38043.5 | 33090.8 | 23446.5 | 15223.5 |
| 75°   | 1891.1  | 1923.1  | 2364.4  | 3214.8  | 4550.2  | 6272.9  | 24244.7 | 28919.5 | 26945.9 | 17040.5 | 8750.1  |
| 77.5° | 1017.1  | 1052.5  | 1572.9  | 2590.0  | 4114.0  | 4358.2  | 15595.6 | 19903.3 | 16926.0 | 7660.6  | 2536.1  |
| 80°   | 424.4   | 444.6   | 735.9   | 1882.7  | 3554.9  | 3827.8  | 9176.2  | 12069.3 | 7212.6  | 1510.6  | 565.8   |
| 82.5° | 183.6   | 193.7   | 306.5   | 1123.2  | 2657.4  | 3231.6  | 4858.4  | 5806.5  | 2185.8  | 331.8   | 284.6   |
| 85°   | 35.4    | 37.0    | 126.3   | 594.5   | 1695.8  | 1823.8  | 3149.1  | 3086.8  | 981.8   | 143.1   | 207.1   |
| 87.5° | 0.0     | 0.0     | 30.3    | 186.9   | 498.5   | 993.6   | 1921.5  | 1897.9  | 333.4   | 69.0    | 77.5    |
| 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: P323452

CATALOG NUMBER: GAN-SA8C-727-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 | 11963.2 |
| 2.5°  | 11868.9 | 11752.7 | 11508.5 | 11207.1 | 10976.4 | 10722.1 | 10520.0 | 10264.0 | 10152.9 | 10158.0 | 10097.3 |
| 5°    | 11602.8 | 11363.7 | 10823.1 | 10141.1 | 9615.7  | 9073.5  | 8607.0  | 8142.2  | 7867.7  | 7778.4  | 7694.2  |
| 7.5°  | 11222.2 | 10843.3 | 9981.1  | 8930.3  | 8041.2  | 7172.2  | 6416.1  | 5750.9  | 5329.9  | 5124.4  | 5048.7  |
| 10°   | 10792.8 | 10260.7 | 9012.8  | 7628.6  | 6358.8  | 5183.4  | 4203.3  | 3351.2  | 3011.0  | 2780.3  | 2721.4  |
| 12.5° | 10415.6 | 9694.9  | 8066.4  | 6293.1  | 4786.0  | 3368.0  | 2433.4  | 1902.9  | 1672.2  | 1581.3  | 1566.1  |
| 15°   | 10060.3 | 9166.1  | 7155.4  | 5084.0  | 3314.1  | 2073.0  | 1547.6  | 1367.4  | 1313.5  | 1298.4  | 1298.4  |
| 17.5° | 9725.2  | 8662.6  | 6264.5  | 3893.4  | 2192.6  | 1453.3  | 1281.5  | 1241.1  | 1224.3  | 1222.6  | 1224.3  |
| 20°   | 9374.9  | 8159.0  | 5388.8  | 2852.7  | 1530.8  | 1231.0  | 1183.9  | 1162.0  | 1156.9  | 1156.9  | 1156.9  |
| 22.5° | 9039.8  | 7655.5  | 4536.7  | 2037.7  | 1227.6  | 1123.2  | 1099.7  | 1084.5  | 1079.5  | 1077.8  | 1074.4  |
| 25°   | 8718.1  | 7177.3  | 3704.8  | 1439.8  | 1077.8  | 1028.9  | 1008.7  | 988.5   | 973.4   | 964.9   | 959.9   |
| 27.5° | 8453.7  | 6751.2  | 2930.2  | 1155.2  | 973.4   | 931.3   | 906.0   | 875.7   | 838.6   | 821.8   | 815.1   |
| 30°   | 8243.2  | 6362.2  | 2258.3  | 975.0   | 875.7   | 833.6   | 794.9   | 742.6   | 688.8   | 660.1   | 658.4   |
| 32.5° | 8078.2  | 5979.9  | 1714.3  | 862.2   | 788.1   | 735.9   | 680.3   | 614.7   | 552.4   | 520.4   | 518.7   |
| 35°   | 7997.4  | 5643.1  | 1310.2  | 779.7   | 710.7   | 645.0   | 575.9   | 503.5   | 442.9   | 412.6   | 409.2   |
| 37.5° | 8051.3  | 5358.5  | 1022.2  | 710.7   | 645.0   | 569.2   | 488.4   | 412.6   | 358.7   | 331.8   | 330.1   |
| 40°   | 8248.3  | 5176.6  | 830.2   | 651.7   | 589.4   | 496.8   | 409.2   | 338.5   | 293.0   | 271.1   | 269.4   |
| 42.5° | 8667.6  | 5109.3  | 709.0   | 602.9   | 535.5   | 429.4   | 340.2   | 279.5   | 237.4   | 222.3   | 218.9   |
| 45°   | 9368.2  | 5208.6  | 626.5   | 555.7   | 479.9   | 365.4   | 281.2   | 229.0   | 192.0   | 180.2   | 178.5   |
| 47.5° | 10301.1 | 5469.7  | 567.5   | 510.3   | 429.4   | 308.2   | 234.1   | 185.2   | 156.6   | 144.8   | 143.1   |
| 50°   | 11503.5 | 5883.9  | 518.7   | 464.8   | 382.3   | 261.0   | 193.7   | 146.5   | 121.2   | 112.8   | 112.8   |
| 52.5° | 12812.0 | 6377.3  | 474.9   | 422.7   | 335.1   | 217.2   | 156.6   | 112.8   | 96.0    | 85.9    | 85.9    |
| 55°   | 13893.1 | 6808.5  | 427.7   | 390.7   | 277.9   | 180.2   | 119.6   | 85.9    | 70.7    | 65.7    | 65.7    |
| 57.5° | 14972.5 | 7268.2  | 373.9   | 335.1   | 222.3   | 146.5   | 90.9    | 64.0    | 52.2    | 48.8    | 48.8    |
| 60°   | 16372.0 | 7830.7  | 321.6   | 272.8   | 175.1   | 111.1   | 67.4    | 45.5    | 38.7    | 37.0    | 37.0    |
| 62.5° | 17911.1 | 8160.7  | 274.5   | 218.9   | 136.4   | 82.5    | 48.8    | 30.3    | 28.6    | 28.6    | 26.9    |
| 65°   | 18852.5 | 7694.2  | 230.7   | 175.1   | 106.1   | 62.3    | 32.0    | 21.9    | 25.3    | 23.6    | 20.2    |
| 67.5° | 17651.8 | 6023.7  | 188.6   | 136.4   | 82.5    | 47.2    | 20.2    | 15.2    | 26.9    | 21.9    | 16.8    |
| 70°   | 14615.5 | 4216.8  | 146.5   | 96.0    | 65.7    | 40.4    | 13.5    | 10.1    | 28.6    | 21.9    | 13.5    |
| 72.5° | 10937.7 | 2822.4  | 116.2   | 64.0    | 48.8    | 35.4    | 11.8    | 5.1     | 25.3    | 18.5    | 11.8    |
| 75°   | 5976.6  | 1136.7  | 92.6    | 40.4    | 30.3    | 25.3    | 8.4     | 3.4     | 16.8    | 13.5    | 8.4     |
| 77.5° | 1572.9  | 299.8   | 67.4    | 26.9    | 16.8    | 10.1    | 5.1     | 1.7     | 8.4     | 6.7     | 3.4     |
| 80°   | 400.8   | 116.2   | 43.8    | 18.5    | 11.8    | 5.1     | 0.0     | 0.0     | 1.7     | 0.0     | 0.0     |
| 82.5° | 213.9   | 48.8    | 26.9    | 13.5    | 6.7     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 161.7   | 32.0    | 15.2    | 8.4     | 1.7     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 62.3    | 10.1    | 5.1     | 0.0     | 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)