

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: P319791

Luminaire Tested: **GAN-SA7A-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24233 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 226  
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

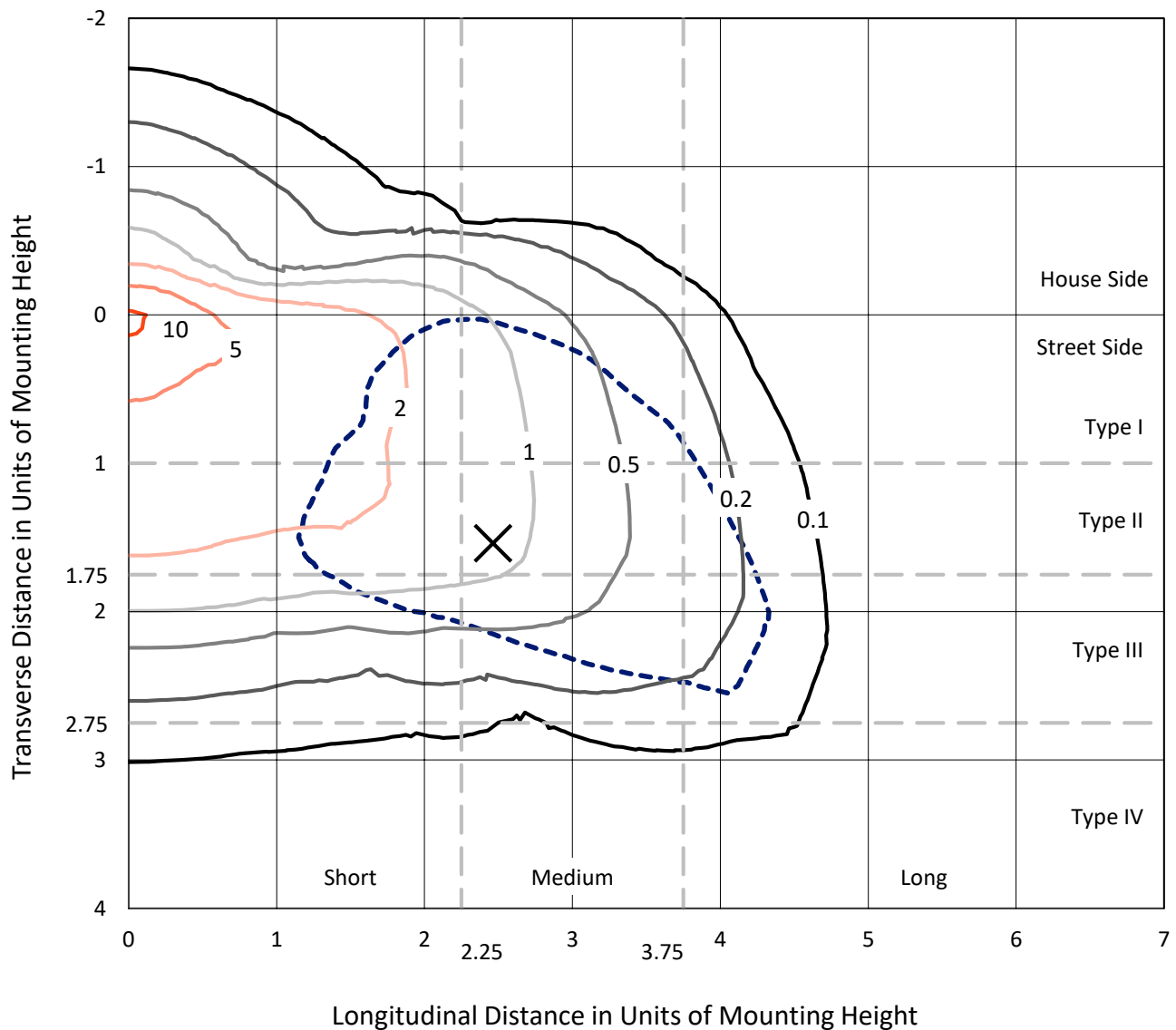


REPORT NUMBER: P319791

CATALOG NUMBER: GAN-SA7A-827-U-SL3

## Iso-Footcandle Lines of Horizontal Illumination

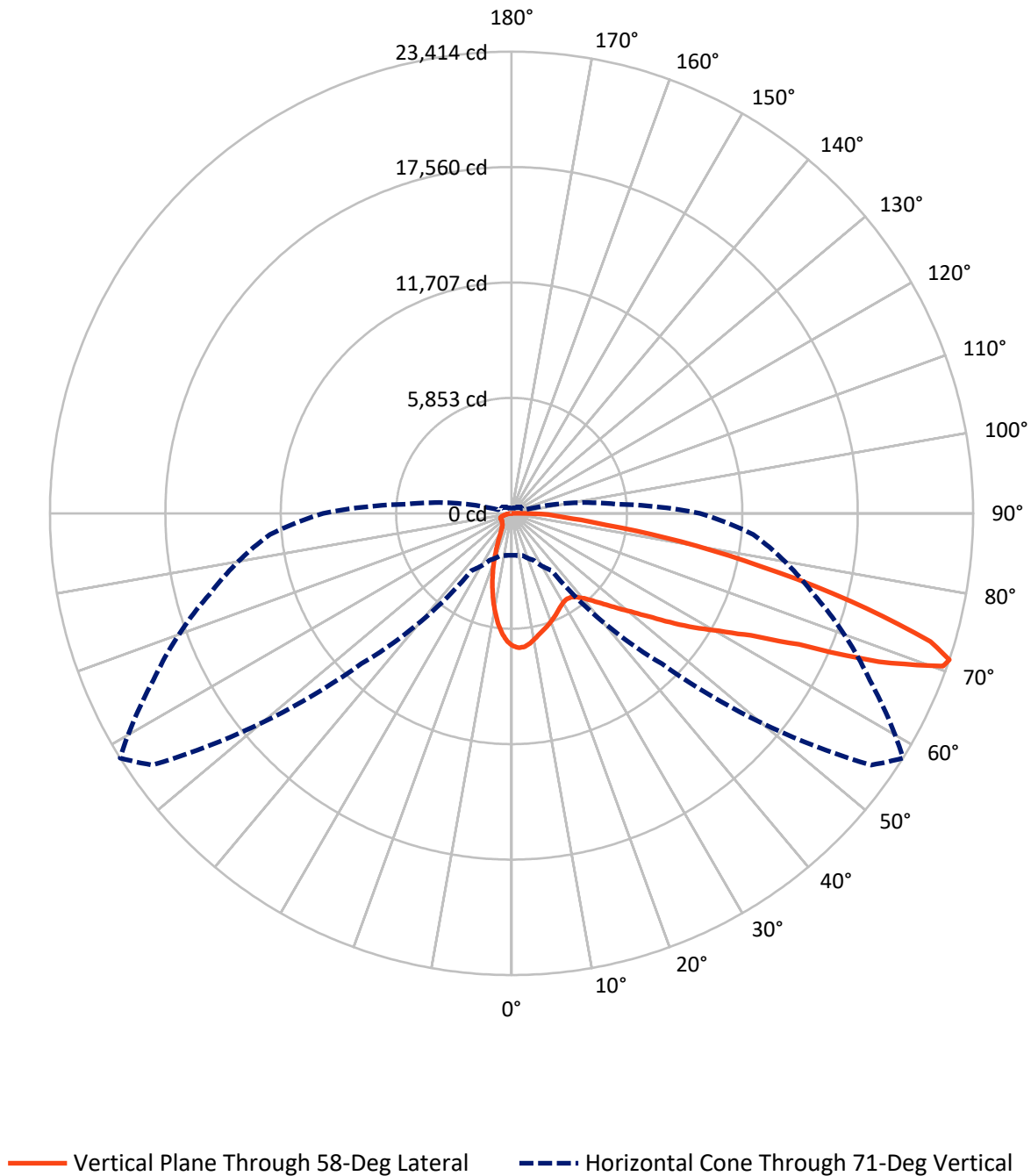
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P319791  
CATALOG NUMBER: GAN-SA7A-827-U-SL3

## Luminous Intensity Polar Plot



REPORT NUMBER: P319791

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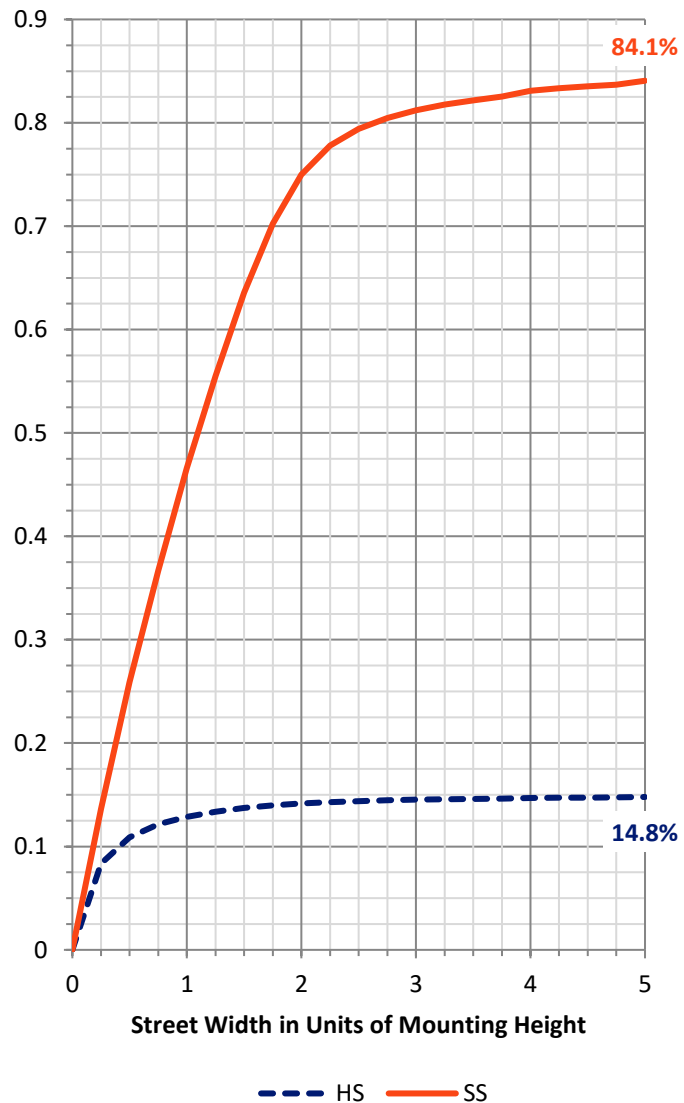
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3623.0   | 0.0    | 3623.0  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 20610.0  | 0.0    | 20610.0 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 24233.0  | 0.0    | 24233.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 579.2   | 2.4       |
| 10°-20°   | 1288.0  | 5.3       |
| 20°-30°   | 1636.9  | 6.8       |
| 30°-40°   | 2085.1  | 8.6       |
| 40°-50°   | 2956.7  | 12.2      |
| 50°-60°   | 4575.7  | 18.9      |
| 60°-70°   | 6229.2  | 25.7      |
| 70°-80°   | 4155.6  | 17.1      |
| 80°-90°   | 726.5   | 3.0       |
| 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°    | 24233.0 | 100.0     |
| 0°-180°   | 24233.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P319791

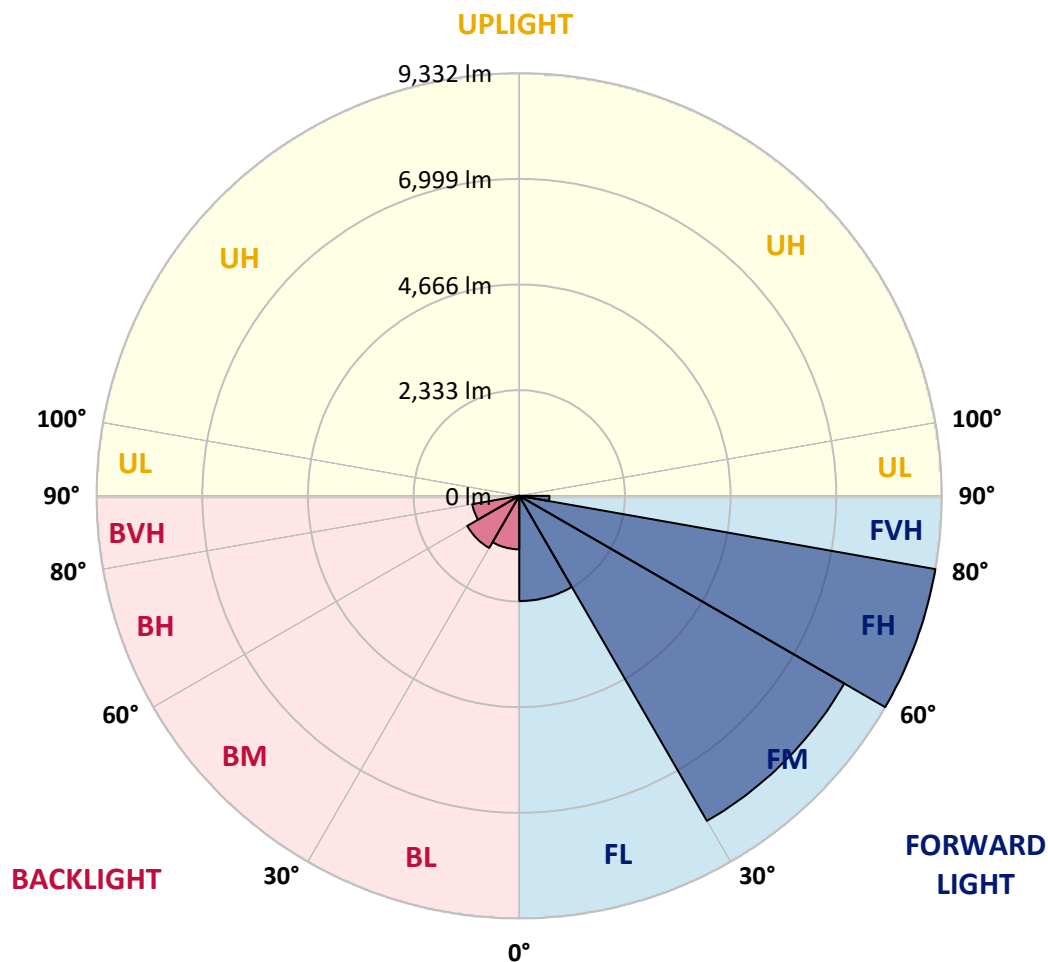
CATALOG NUMBER: GAN-SA7A-827-U-SL3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2323.1 | 9.6       |                         |      |          |
| FM   | (30°-60°)   | 8288.9 | 34.2      |                         |      |          |
| FH   | (60°-80°)   | 9331.8 | 38.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 666.2  | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1181.0 | 4.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1328.7 | 5.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1053.0 | 4.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 60.4   | 0.2       |                         |      | G1/100   |
| 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: P319791

CATALOG NUMBER: GAN-SA7A-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2  | 6714.2  | 6714.2  | 6714.2  | 6714.2  | 6714.2  | 6714.2  |
| 2.5°  | 6892.3 | 6883.0 | 6886.4 | 6879.6 | 6863.6  | 6847.5  | 6823.9  | 6828.1  | 6795.2  | 6746.2  | 6685.5  |
| 5°    | 6762.3 | 6758.9 | 6784.2 | 6798.6 | 6810.4  | 6801.1  | 6794.4  | 6802.8  | 6754.7  | 6687.1  | 6581.6  |
| 7.5°  | 6489.6 | 6452.5 | 6484.6 | 6532.7 | 6578.3  | 6612.9  | 6658.4  | 6664.4  | 6634.0  | 6563.1  | 6424.6  |
| 10°   | 6102.2 | 6066.7 | 6114.0 | 6189.1 | 6280.3  | 6363.0  | 6455.0  | 6471.9  | 6477.8  | 6413.7  | 6245.7  |
| 12.5° | 5700.4 | 5673.4 | 5720.6 | 5826.1 | 5977.2  | 6104.7  | 6251.6  | 6276.9  | 6329.2  | 6286.2  | 6080.2  |
| 15°   | 5340.8 | 5330.6 | 5388.0 | 5491.9 | 5665.8  | 5860.8  | 6072.6  | 6119.1  | 6207.7  | 6193.3  | 5951.1  |
| 17.5° | 5030.1 | 5027.6 | 5071.5 | 5180.4 | 5372.8  | 5619.3  | 5894.5  | 5973.0  | 6104.7  | 6121.6  | 5844.7  |
| 20°   | 4798.8 | 4793.8 | 4824.2 | 4904.4 | 5102.7  | 5382.1  | 5702.1  | 5810.1  | 6000.0  | 6059.1  | 5735.0  |
| 22.5° | 4674.8 | 4673.9 | 4674.8 | 4712.7 | 4874.8  | 5134.8  | 5514.7  | 5646.3  | 5897.9  | 6009.3  | 5613.4  |
| 25°   | 4653.7 | 4651.1 | 4632.6 | 4628.3 | 4720.3  | 4928.0  | 5329.0  | 5474.1  | 5800.8  | 5974.7  | 5497.8  |
| 27.5° | 4708.5 | 4711.9 | 4687.4 | 4647.7 | 4666.3  | 4792.1  | 5167.7  | 5323.0  | 5723.2  | 5968.0  | 5417.6  |
| 30°   | 4822.5 | 4820.8 | 4799.7 | 4758.3 | 4722.0  | 4741.4  | 5052.9  | 5208.2  | 5670.8  | 5997.5  | 5362.7  |
| 32.5° | 4948.3 | 4957.5 | 4953.3 | 4930.5 | 4876.5  | 4798.8  | 5018.3  | 5170.3  | 5655.6  | 6068.4  | 5339.1  |
| 35°   | 5099.4 | 5109.5 | 5139.9 | 5157.6 | 5094.3  | 4969.4  | 5092.6  | 5224.3  | 5699.5  | 6201.8  | 5377.1  |
| 37.5° | 5242.9 | 5269.0 | 5354.3 | 5429.4 | 5375.4  | 5236.1  | 5290.1  | 5383.8  | 5835.4  | 6412.0  | 5479.2  |
| 40°   | 5408.3 | 5431.1 | 5570.4 | 5729.9 | 5721.5  | 5577.1  | 5608.4  | 5670.8  | 6075.2  | 6713.3  | 5664.1  |
| 42.5° | 5571.2 | 5616.8 | 5818.5 | 6044.8 | 6109.8  | 5982.3  | 6032.1  | 6065.0  | 6412.8  | 7112.6  | 5986.5  |
| 45°   | 5788.2 | 5837.1 | 6117.4 | 6390.0 | 6542.0  | 6470.2  | 6549.6  | 6562.2  | 6837.4  | 7656.2  | 6455.0  |
| 47.5° | 6116.5 | 6172.2 | 6498.9 | 6785.1 | 7017.2  | 7024.8  | 7155.6  | 7150.6  | 7367.5  | 8278.3  | 7045.1  |
| 50°   | 6628.1 | 6708.3 | 6975.8 | 7243.4 | 7525.4  | 7682.4  | 7857.1  | 7832.6  | 8003.1  | 8941.0  | 7724.6  |
| 52.5° | 7298.3 | 7335.4 | 7533.8 | 7731.3 | 8081.6  | 8433.6  | 8684.3  | 8662.4  | 8724.0  | 9622.2  | 8496.1  |
| 55°   | 7993.0 | 8020.9 | 8102.7 | 8210.8 | 8681.8  | 9255.8  | 9785.9  | 9751.3  | 9595.2  | 10329.5 | 9258.4  |
| 57.5° | 8617.7 | 8674.2 | 8730.8 | 8775.5 | 9286.2  | 10115.1 | 10912.8 | 10915.4 | 10540.6 | 11092.6 | 10045.9 |
| 60°   | 8714.7 | 8764.5 | 9138.5 | 9491.3 | 10320.3 | 11261.5 | 12119.1 | 12093.8 | 11518.9 | 11920.7 | 10923.8 |
| 62.5° | 7703.5 | 7815.7 | 8440.4 | 9379.1 | 11316.3 | 13358.3 | 13657.9 | 13626.7 | 12688.9 | 12941.3 | 11946.0 |
| 65°   | 5520.6 | 5648.0 | 6401.8 | 7812.4 | 10833.5 | 15668.6 | 16435.1 | 16014.7 | 14284.3 | 14196.5 | 13143.0 |
| 67.5° | 3184.9 | 3215.3 | 3541.9 | 4674.8 | 8248.8  | 15789.3 | 20671.7 | 20083.4 | 16761.8 | 15620.5 | 13728.8 |
| 70°   | 2355.1 | 2354.3 | 2431.9 | 2876.8 | 4463.7  | 12886.4 | 22686.7 | 23214.2 | 19370.1 | 16089.0 | 12900.7 |
| 71°   | 2129.7 | 2132.3 | 2219.2 | 2618.5 | 3535.2  | 10786.2 | 22258.7 | 23413.5 | 20057.2 | 15857.7 | 12301.4 |
| 72.5° | 1821.6 | 1830.1 | 1950.8 | 2348.4 | 2973.8  | 7438.4  | 20415.1 | 22218.2 | 20383.1 | 15287.1 | 11363.6 |
| 75°   | 1381.8 | 1401.2 | 1568.4 | 1979.5 | 2718.1  | 3772.4  | 14983.2 | 17741.8 | 18107.3 | 13489.1 | 8443.8  |
| 77.5° | 985.9  | 1007.9 | 1197.0 | 1664.6 | 2583.9  | 2843.0  | 10034.1 | 12941.3 | 13325.3 | 8644.7  | 3808.7  |
| 80°   | 623.0  | 649.1  | 791.8  | 1324.4 | 2427.7  | 2699.5  | 6305.6  | 8698.7  | 7266.2  | 2766.2  | 969.1   |
| 82.5° | 365.5  | 385.8  | 491.3  | 865.2  | 1982.8  | 2599.9  | 3709.9  | 4821.6  | 2827.8  | 835.7   | 440.6   |
| 85°   | 211.9  | 221.2  | 306.4  | 551.2  | 1440.1  | 2453.9  | 2725.7  | 2695.3  | 1227.4  | 408.6   | 208.5   |
| 87.5° | 98.8   | 109.7  | 181.5  | 287.8  | 799.4   | 1778.6  | 2154.2  | 1861.3  | 763.1   | 191.6   | 97.9    |
| 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: P319791

CATALOG NUMBER: GAN-SA7A-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6714.2  | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2 | 6714.2 |
| 2.5°  | 6655.9  | 6641.6 | 6581.6 | 6528.5 | 6472.7 | 6400.1 | 6320.0 | 6309.8 | 6260.9 | 6270.2 | 6253.3 |
| 5°    | 6524.2  | 6487.9 | 6343.6 | 6212.8 | 6058.3 | 5919.8 | 5769.6 | 5700.4 | 5600.8 | 5594.0 | 5568.7 |
| 7.5°  | 6336.0  | 6268.5 | 6044.8 | 5796.6 | 5548.4 | 5312.1 | 5078.2 | 4924.6 | 4767.6 | 4700.9 | 4695.0 |
| 10°   | 6124.1  | 6009.3 | 5680.1 | 5312.9 | 4955.0 | 4609.8 | 4275.5 | 4028.2 | 3805.3 | 3699.8 | 3695.6 |
| 12.5° | 5923.2  | 5753.5 | 5301.9 | 4802.2 | 4312.6 | 3865.2 | 3406.9 | 3081.9 | 2802.5 | 2708.8 | 2669.1 |
| 15°   | 5752.7  | 5513.8 | 4933.9 | 4294.9 | 3700.6 | 3079.4 | 2557.7 | 2215.8 | 1957.5 | 1868.0 | 1851.2 |
| 17.5° | 5587.3  | 5280.0 | 4556.6 | 3782.5 | 3064.2 | 2381.3 | 1858.8 | 1604.7 | 1467.1 | 1430.8 | 1429.9 |
| 20°   | 5422.7  | 5039.4 | 4162.4 | 3258.3 | 2448.8 | 1781.1 | 1429.1 | 1315.1 | 1268.7 | 1264.5 | 1257.7 |
| 22.5° | 5236.1  | 4784.5 | 3747.9 | 2732.4 | 1911.1 | 1400.4 | 1214.7 | 1169.1 | 1163.2 | 1178.4 | 1178.4 |
| 25°   | 5061.4  | 4531.3 | 3327.5 | 2217.5 | 1486.5 | 1168.3 | 1084.7 | 1075.4 | 1091.5 | 1118.5 | 1121.0 |
| 27.5° | 4898.5  | 4287.3 | 2917.3 | 1760.0 | 1191.1 | 1029.0 | 994.4  | 1005.4 | 1034.1 | 1065.3 | 1066.1 |
| 30°   | 4764.2  | 4056.9 | 2518.9 | 1386.9 | 1006.2 | 925.2  | 919.3  | 941.2  | 972.4  | 996.9  | 1002.8 |
| 32.5° | 4660.4  | 3860.2 | 2133.9 | 1115.1 | 885.5  | 847.5  | 852.6  | 871.1  | 890.6  | 904.1  | 913.3  |
| 35°   | 4612.3  | 3691.4 | 1778.6 | 940.4  | 808.7  | 787.6  | 794.3  | 804.5  | 812.9  | 823.0  | 830.6  |
| 37.5° | 4620.7  | 3560.5 | 1461.2 | 831.5  | 757.2  | 746.2  | 746.2  | 746.2  | 746.2  | 751.3  | 752.1  |
| 40°   | 4699.2  | 3485.4 | 1202.9 | 762.2  | 722.6  | 710.8  | 701.5  | 693.0  | 686.3  | 689.6  | 688.0  |
| 42.5° | 4900.1  | 3478.6 | 1013.8 | 718.3  | 694.7  | 675.3  | 656.7  | 644.9  | 636.5  | 639.8  | 641.5  |
| 45°   | 5241.2  | 3563.0 | 886.3  | 687.1  | 668.5  | 639.0  | 615.4  | 602.7  | 596.8  | 607.8  | 609.5  |
| 47.5° | 5682.6  | 3747.1 | 808.7  | 664.3  | 644.1  | 605.2  | 579.9  | 568.1  | 569.8  | 585.8  | 590.0  |
| 50°   | 6251.6  | 4045.9 | 771.5  | 650.0  | 627.2  | 576.5  | 550.4  | 540.2  | 545.3  | 568.1  | 573.2  |
| 52.5° | 6876.2  | 4476.4 | 775.7  | 645.8  | 616.2  | 555.4  | 527.6  | 515.8  | 524.2  | 545.3  | 549.5  |
| 55°   | 7597.1  | 4993.8 | 845.8  | 651.7  | 600.2  | 541.9  | 509.0  | 488.7  | 495.5  | 514.9  | 518.3  |
| 57.5° | 8398.2  | 5586.4 | 986.8  | 650.0  | 579.9  | 529.3  | 489.6  | 459.2  | 464.3  | 476.1  | 479.5  |
| 60°   | 9232.2  | 6302.2 | 1205.4 | 655.0  | 570.6  | 514.1  | 463.4  | 425.4  | 423.8  | 433.9  | 435.6  |
| 62.5° | 10233.3 | 7130.3 | 1455.3 | 658.4  | 576.5  | 494.7  | 428.8  | 391.7  | 386.6  | 389.1  | 390.8  |
| 65°   | 11264.8 | 7729.6 | 1361.6 | 644.9  | 595.1  | 478.6  | 398.4  | 358.8  | 349.5  | 347.8  | 348.6  |
| 67.5° | 11296.9 | 7087.3 | 954.7  | 617.9  | 602.7  | 470.2  | 375.6  | 330.9  | 315.7  | 309.8  | 308.9  |
| 70°   | 10131.2 | 5757.8 | 743.7  | 589.2  | 572.3  | 456.7  | 354.5  | 308.1  | 285.3  | 276.0  | 275.2  |
| 71°   | 9562.2  | 5300.3 | 704.8  | 574.8  | 549.5  | 443.2  | 345.2  | 298.0  | 274.3  | 264.2  | 262.5  |
| 72.5° | 8670.0  | 4751.6 | 657.6  | 552.1  | 505.6  | 408.6  | 327.5  | 283.6  | 259.1  | 247.3  | 244.8  |
| 75°   | 6222.0  | 3107.2 | 564.7  | 492.1  | 418.7  | 325.8  | 287.0  | 254.9  | 233.8  | 219.5  | 217.8  |
| 77.5° | 2397.3  | 1236.6 | 427.1  | 409.4  | 320.8  | 254.9  | 236.4  | 220.3  | 205.1  | 190.8  | 189.9  |
| 80°   | 741.1   | 552.9  | 311.5  | 308.1  | 232.1  | 189.9  | 184.0  | 179.8  | 173.9  | 158.7  | 155.3  |
| 82.5° | 395.9   | 317.4  | 214.4  | 199.2  | 151.9  | 126.6  | 133.4  | 135.1  | 135.9  | 119.9  | 118.2  |
| 85°   | 189.1   | 168.0  | 120.7  | 113.1  | 88.6   | 70.9   | 81.9   | 88.6   | 89.5   | 73.4   | 68.4   |
| 87.5° | 90.3    | 87.8   | 56.6   | 43.1   | 32.9   | 23.6   | 28.7   | 35.5   | 38.8   | 27.9   | 24.5   |
| 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)