

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: P319617

Luminaire Tested: **GAN-SA3D-727-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319617  
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-SA3D-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA 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: 19810 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

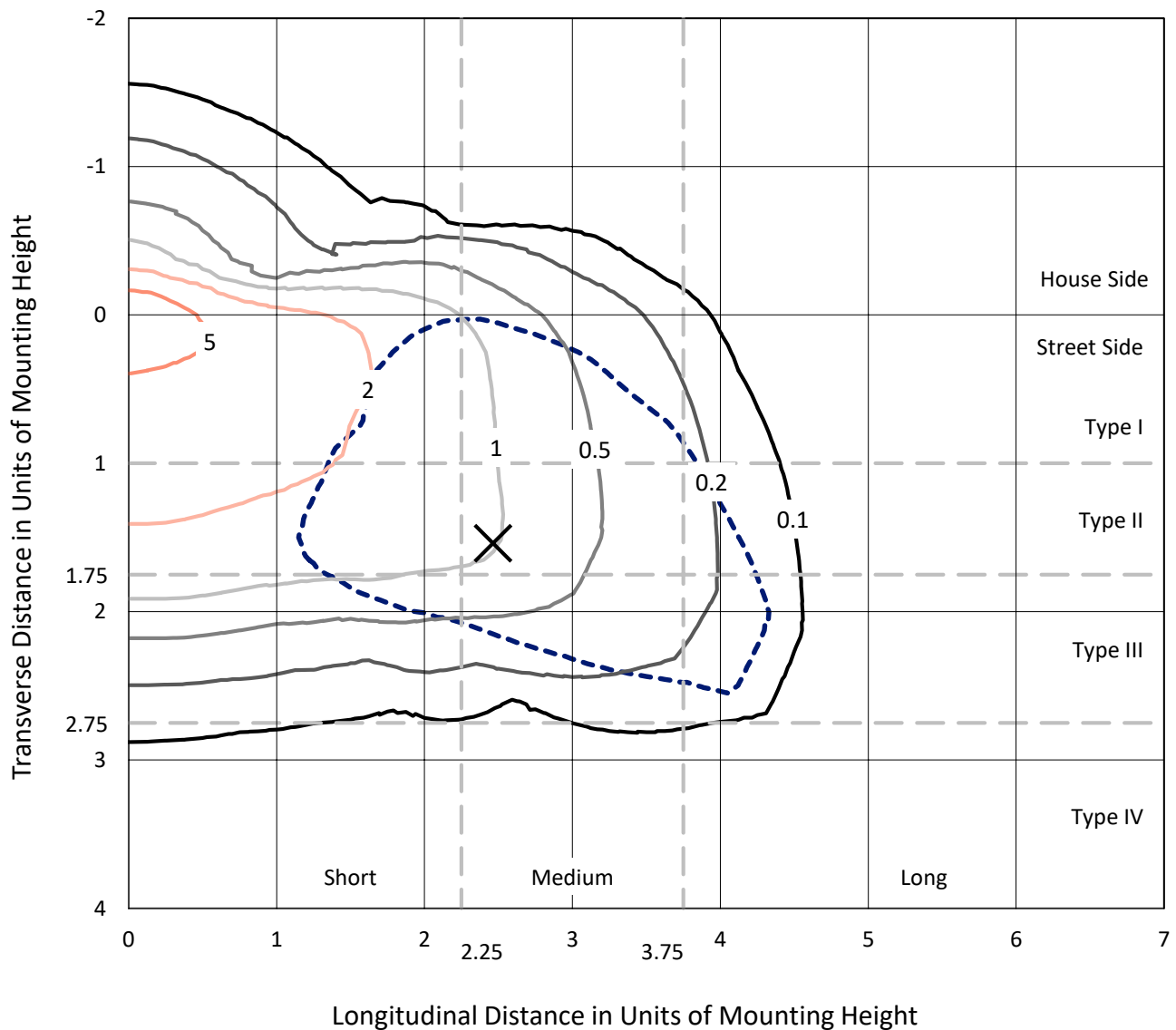
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P319617  
 CATALOG NUMBER: GAN-SA3D-727-U-SL3

## Iso-Footcandle Lines of Horizontal Illumination

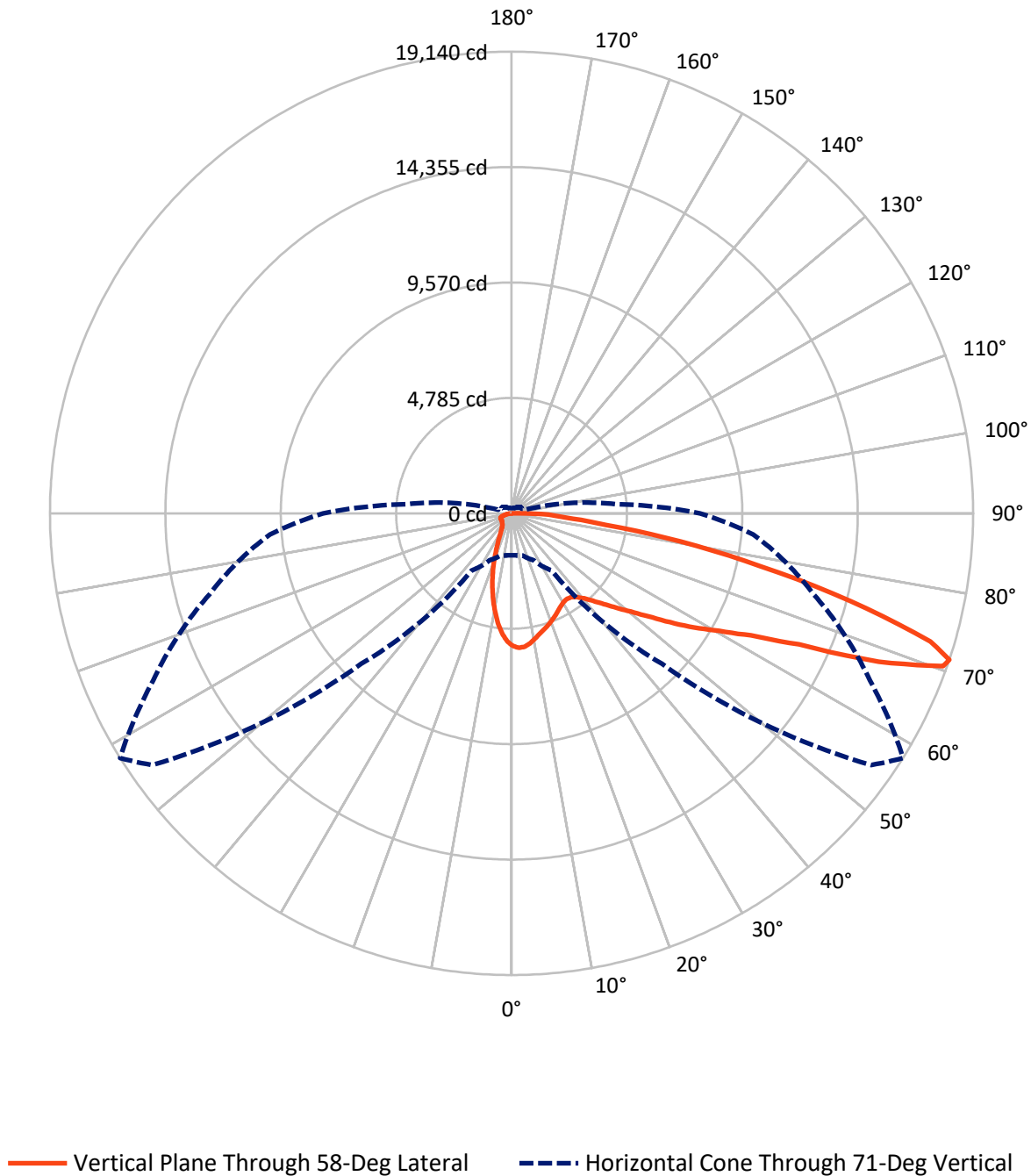
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P319617  
CATALOG NUMBER: GAN-SA3D-727-U-SL3

## Luminous Intensity Polar Plot



REPORT NUMBER: P319617

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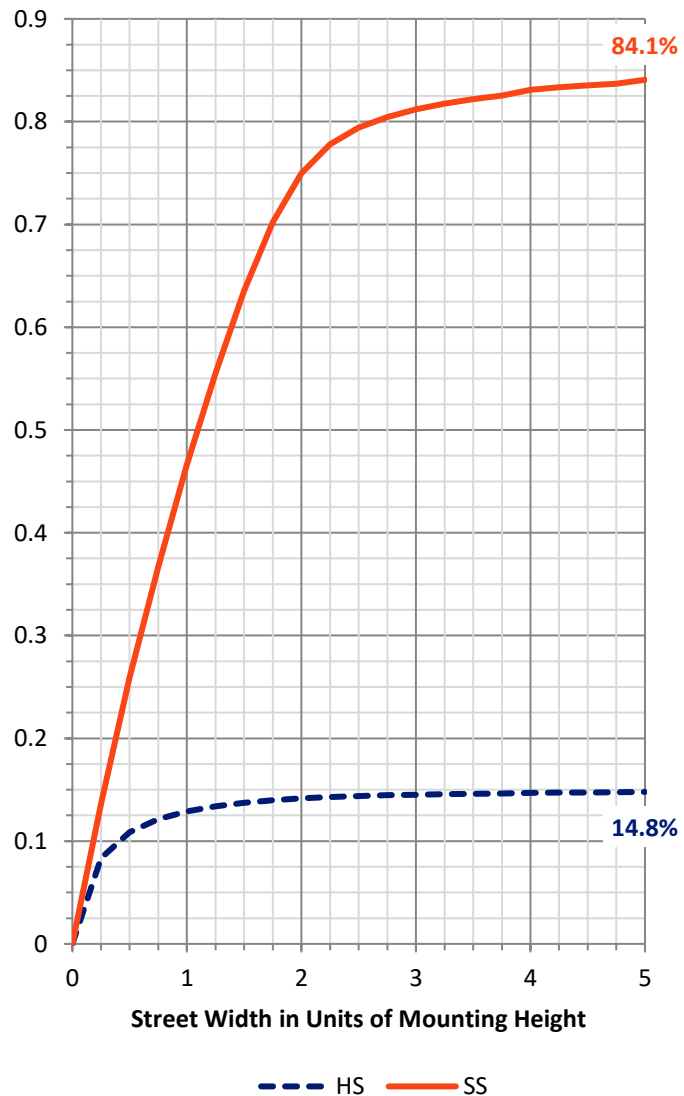
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2961.7   | 0.0    | 2961.7  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 16848.3  | 0.0    | 16848.3 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 19810.0  | 0.0    | 19810.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 473.5   | 2.4       |
| 10°-20°   | 1052.9  | 5.3       |
| 20°-30°   | 1338.1  | 6.8       |
| 30°-40°   | 1704.5  | 8.6       |
| 40°-50°   | 2417.1  | 12.2      |
| 50°-60°   | 3740.5  | 18.9      |
| 60°-70°   | 5092.3  | 25.7      |
| 70°-80°   | 3397.1  | 17.1      |
| 80°-90°   | 593.9   | 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°    | 19810.0 | 100.0     |
| 0°-180°   | 19810.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P319617

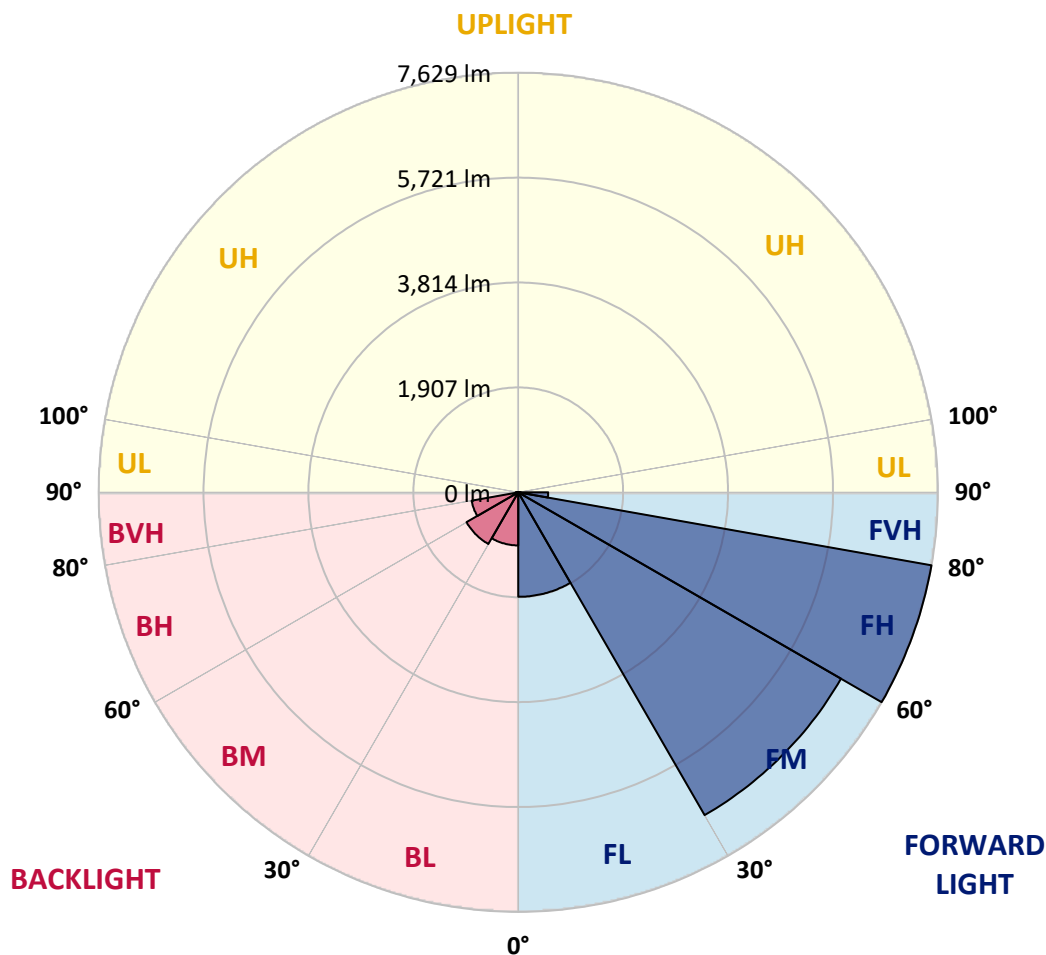
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1899.1 | 9.6       |                         |      |          |
| FM   | (30°-60°)   | 6776.0 | 34.2      |                         |      |          |
| FH   | (60°-80°)   | 7628.6 | 38.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 544.6  | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 965.4  | 4.9       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1086.1 | 5.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 860.8  | 4.3       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 49.3   | 0.2       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

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

Type III Medium





REPORT NUMBER: P319617

CATALOG NUMBER: GAN-SA3D-727-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7  | 5488.7  | 5488.7  | 5488.7  | 5488.7  | 5488.7  |
| 2.5°  | 5634.3 | 5626.7 | 5629.5 | 5623.9 | 5610.8 | 5597.7  | 5578.4  | 5581.9  | 5554.9  | 5514.9  | 5465.2  |
| 5°    | 5528.0 | 5525.3 | 5546.0 | 5557.7 | 5567.4 | 5559.8  | 5554.2  | 5561.2  | 5521.8  | 5466.6  | 5380.4  |
| 7.5°  | 5305.1 | 5274.8 | 5301.0 | 5340.3 | 5377.6 | 5405.9  | 5443.2  | 5448.0  | 5423.1  | 5365.2  | 5252.0  |
| 10°   | 4988.4 | 4959.4 | 4998.1 | 5059.5 | 5134.0 | 5201.6  | 5276.8  | 5290.6  | 5295.5  | 5243.0  | 5105.7  |
| 12.5° | 4659.9 | 4637.9 | 4676.5 | 4762.8 | 4886.3 | 4990.5  | 5110.5  | 5131.2  | 5174.0  | 5138.8  | 4970.5  |
| 15°   | 4366.0 | 4357.7 | 4404.6 | 4489.5 | 4631.6 | 4791.0  | 4964.3  | 5002.2  | 5074.7  | 5062.9  | 4864.9  |
| 17.5° | 4112.0 | 4110.0 | 4145.8 | 4234.9 | 4392.2 | 4593.7  | 4818.7  | 4882.8  | 4990.5  | 5004.3  | 4777.9  |
| 20°   | 3923.0 | 3918.8 | 3943.7 | 4009.2 | 4171.4 | 4399.8  | 4661.3  | 4749.6  | 4904.9  | 4953.2  | 4688.2  |
| 22.5° | 3821.5 | 3820.8 | 3821.5 | 3852.6 | 3985.1 | 4197.6  | 4508.1  | 4615.8  | 4821.4  | 4912.5  | 4588.9  |
| 25°   | 3804.3 | 3802.2 | 3787.0 | 3783.6 | 3858.8 | 4028.5  | 4356.3  | 4475.0  | 4742.1  | 4884.2  | 4494.3  |
| 27.5° | 3849.1 | 3851.9 | 3831.9 | 3799.4 | 3814.6 | 3917.4  | 4224.5  | 4351.5  | 4678.6  | 4878.7  | 4428.8  |
| 30°   | 3942.3 | 3940.9 | 3923.7 | 3889.8 | 3860.2 | 3876.0  | 4130.7  | 4257.6  | 4635.8  | 4902.8  | 4383.9  |
| 32.5° | 4045.1 | 4052.7 | 4049.2 | 4030.6 | 3986.4 | 3923.0  | 4102.4  | 4226.6  | 4623.4  | 4960.8  | 4364.6  |
| 35°   | 4168.6 | 4176.9 | 4201.7 | 4216.2 | 4164.5 | 4062.4  | 4163.1  | 4270.7  | 4659.2  | 5069.8  | 4395.6  |
| 37.5° | 4285.9 | 4307.3 | 4377.0 | 4438.4 | 4394.3 | 4280.4  | 4324.6  | 4401.2  | 4770.3  | 5241.7  | 4479.1  |
| 40°   | 4421.2 | 4439.8 | 4553.7 | 4684.1 | 4677.2 | 4559.2  | 4584.7  | 4635.8  | 4966.3  | 5488.0  | 4630.3  |
| 42.5° | 4554.4 | 4591.6 | 4756.5 | 4941.5 | 4994.6 | 4890.4  | 4931.1  | 4958.0  | 5242.3  | 5814.4  | 4893.9  |
| 45°   | 4731.7 | 4771.7 | 5000.8 | 5223.7 | 5347.9 | 5289.3  | 5354.1  | 5364.5  | 5589.4  | 6258.8  | 5276.8  |
| 47.5° | 5000.1 | 5045.7 | 5312.7 | 5546.7 | 5736.4 | 5742.6  | 5849.6  | 5845.5  | 6022.8  | 6767.4  | 5759.2  |
| 50°   | 5418.3 | 5483.9 | 5702.6 | 5921.4 | 6151.8 | 6280.2  | 6423.0  | 6403.0  | 6542.4  | 7309.1  | 6314.7  |
| 52.5° | 5966.2 | 5996.6 | 6158.7 | 6320.2 | 6606.6 | 6894.3  | 7099.3  | 7081.3  | 7131.7  | 7865.9  | 6945.4  |
| 55°   | 6534.1 | 6556.9 | 6623.8 | 6712.2 | 7097.2 | 7566.4  | 7999.8  | 7971.5  | 7843.9  | 8444.2  | 7568.5  |
| 57.5° | 7044.8 | 7091.0 | 7137.2 | 7173.8 | 7591.3 | 8268.9  | 8921.0  | 8923.1  | 8616.7  | 9068.0  | 8212.3  |
| 60°   | 7124.1 | 7164.8 | 7470.5 | 7759.0 | 8436.6 | 9206.0  | 9907.1  | 9886.4  | 9416.5  | 9745.0  | 8930.0  |
| 62.5° | 6297.4 | 6389.2 | 6899.9 | 7667.2 | 9250.9 | 10920.1 | 11165.1 | 11139.6 | 10372.9 | 10579.2 | 9765.7  |
| 65°   | 4513.0 | 4617.2 | 5233.4 | 6386.5 | 8856.2 | 12808.8 | 13435.4 | 13091.7 | 11677.1 | 11605.3 | 10744.2 |
| 67.5° | 2603.6 | 2628.4 | 2895.5 | 3821.5 | 6743.2 | 12907.5 | 16898.7 | 16417.8 | 13702.4 | 12769.5 | 11223.0 |
| 70°   | 1925.3 | 1924.6 | 1988.0 | 2351.7 | 3649.0 | 10534.4 | 18545.9 | 18977.2 | 15834.7 | 13152.4 | 10546.1 |
| 71°   | 1741.0 | 1743.1 | 1814.2 | 2140.5 | 2889.9 | 8817.5  | 18196.0 | 19140.0 | 16396.4 | 12963.4 | 10056.2 |
| 72.5° | 1489.1 | 1496.0 | 1594.7 | 1919.7 | 2431.1 | 6080.8  | 16689.0 | 18162.9 | 16662.7 | 12496.9 | 9289.5  |
| 75°   | 1129.6 | 1145.5 | 1282.1 | 1618.2 | 2222.0 | 3083.9  | 12248.5 | 14503.6 | 14802.4 | 11027.1 | 6902.6  |
| 77.5° | 806.0  | 823.9  | 978.5  | 1360.8 | 2112.3 | 2324.1  | 8202.7  | 10579.2 | 10893.2 | 7066.8  | 3113.5  |
| 80°   | 509.3  | 530.7  | 647.3  | 1082.7 | 1984.6 | 2206.8  | 5154.7  | 7111.0  | 5940.0  | 2261.3  | 792.2   |
| 82.5° | 298.8  | 315.4  | 401.6  | 707.3  | 1620.9 | 2125.4  | 3032.8  | 3941.6  | 2311.7  | 683.2   | 360.2   |
| 85°   | 173.2  | 180.8  | 250.5  | 450.6  | 1177.2 | 2006.0  | 2228.2  | 2203.3  | 1003.3  | 334.0   | 170.4   |
| 87.5° | 80.7   | 89.7   | 148.4  | 235.3  | 653.5  | 1453.9  | 1761.0  | 1521.6  | 623.8   | 156.6   | 80.0    |
| 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: P319617

CATALOG NUMBER: GAN-SA3D-727-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 | 5488.7 |
| 2.5°  | 5441.1 | 5429.3 | 5380.4 | 5336.9 | 5291.3 | 5232.0 | 5166.4 | 5158.2 | 5118.1 | 5125.7 | 5111.9 |
| 5°    | 5333.4 | 5303.8 | 5185.8 | 5078.8 | 4952.5 | 4839.4 | 4716.5 | 4659.9 | 4578.5 | 4573.0 | 4552.3 |
| 7.5°  | 5179.5 | 5124.3 | 4941.5 | 4738.6 | 4535.7 | 4342.5 | 4151.4 | 4025.8 | 3897.4 | 3842.9 | 3838.1 |
| 10°   | 5006.3 | 4912.5 | 4643.4 | 4343.2 | 4050.6 | 3768.4 | 3495.1 | 3292.9 | 3110.8 | 3024.5 | 3021.1 |
| 12.5° | 4842.1 | 4703.4 | 4334.2 | 3925.7 | 3525.5 | 3159.8 | 2785.1 | 2519.4 | 2291.0 | 2214.4 | 2182.0 |
| 15°   | 4702.7 | 4507.4 | 4033.4 | 3511.0 | 3025.2 | 2517.3 | 2090.9 | 1811.4 | 1600.2 | 1527.1 | 1513.3 |
| 17.5° | 4567.5 | 4316.3 | 3724.9 | 3092.1 | 2504.9 | 1946.6 | 1519.5 | 1311.8 | 1199.3 | 1169.6 | 1169.0 |
| 20°   | 4432.9 | 4119.6 | 3402.7 | 2663.6 | 2001.8 | 1456.0 | 1168.3 | 1075.1 | 1037.2 | 1033.7 | 1028.2 |
| 22.5° | 4280.4 | 3911.2 | 3063.8 | 2233.7 | 1562.3 | 1144.8 | 993.0  | 955.7  | 950.9  | 963.3  | 963.3  |
| 25°   | 4137.6 | 3704.2 | 2720.2 | 1812.8 | 1215.2 | 955.0  | 886.7  | 879.1  | 892.2  | 914.3  | 916.4  |
| 27.5° | 4004.4 | 3504.8 | 2384.8 | 1438.8 | 973.7  | 841.2  | 812.9  | 821.9  | 845.3  | 870.8  | 871.5  |
| 30°   | 3894.7 | 3316.4 | 2059.1 | 1133.8 | 822.5  | 756.3  | 751.5  | 769.4  | 794.9  | 815.0  | 819.8  |
| 32.5° | 3809.8 | 3155.6 | 1744.5 | 911.6  | 723.9  | 692.8  | 697.0  | 712.1  | 728.0  | 739.0  | 746.6  |
| 35°   | 3770.5 | 3017.6 | 1453.9 | 768.7  | 661.1  | 643.8  | 649.3  | 657.6  | 664.5  | 672.8  | 679.0  |
| 37.5° | 3777.4 | 2910.7 | 1194.5 | 679.7  | 619.0  | 610.0  | 610.0  | 610.0  | 610.0  | 614.1  | 614.8  |
| 40°   | 3841.5 | 2849.2 | 983.3  | 623.1  | 590.7  | 581.0  | 573.4  | 566.5  | 561.0  | 563.8  | 562.4  |
| 42.5° | 4005.8 | 2843.7 | 828.8  | 587.2  | 567.9  | 552.0  | 536.9  | 527.2  | 520.3  | 523.1  | 524.4  |
| 45°   | 4284.5 | 2912.7 | 724.6  | 561.7  | 546.5  | 522.4  | 503.0  | 492.7  | 487.9  | 496.8  | 498.2  |
| 47.5° | 4645.4 | 3063.2 | 661.1  | 543.1  | 526.5  | 494.8  | 474.1  | 464.4  | 465.8  | 478.9  | 482.3  |
| 50°   | 5110.5 | 3307.4 | 630.7  | 531.3  | 512.7  | 471.3  | 449.9  | 441.6  | 445.8  | 464.4  | 468.5  |
| 52.5° | 5621.2 | 3659.4 | 634.2  | 527.9  | 503.7  | 454.1  | 431.3  | 421.6  | 428.5  | 445.8  | 449.2  |
| 55°   | 6210.5 | 4082.4 | 691.4  | 532.7  | 490.6  | 443.0  | 416.1  | 399.5  | 405.1  | 420.9  | 423.7  |
| 57.5° | 6865.4 | 4566.8 | 806.7  | 531.3  | 474.1  | 432.7  | 400.2  | 375.4  | 379.5  | 389.2  | 392.0  |
| 60°   | 7547.1 | 5151.9 | 985.4  | 535.5  | 466.5  | 420.2  | 378.8  | 347.8  | 346.4  | 354.7  | 356.1  |
| 62.5° | 8365.5 | 5828.9 | 1189.7 | 538.2  | 471.3  | 404.4  | 350.5  | 320.2  | 316.0  | 318.1  | 319.5  |
| 65°   | 9208.8 | 6318.8 | 1113.1 | 527.2  | 486.5  | 391.3  | 325.7  | 293.3  | 285.7  | 284.3  | 285.0  |
| 67.5° | 9235.0 | 5793.7 | 780.5  | 505.1  | 492.7  | 384.4  | 307.1  | 270.5  | 258.1  | 253.3  | 252.6  |
| 70°   | 8282.0 | 4706.9 | 607.9  | 481.7  | 467.9  | 373.3  | 289.8  | 251.9  | 233.2  | 225.6  | 225.0  |
| 71°   | 7816.9 | 4332.9 | 576.2  | 469.9  | 449.2  | 362.3  | 282.2  | 243.6  | 224.3  | 216.0  | 214.6  |
| 72.5° | 7087.6 | 3884.3 | 537.6  | 451.3  | 413.3  | 334.0  | 267.7  | 231.9  | 211.8  | 202.2  | 200.1  |
| 75°   | 5086.4 | 2540.1 | 461.6  | 402.3  | 342.3  | 266.4  | 234.6  | 208.4  | 191.1  | 179.4  | 178.0  |
| 77.5° | 1959.8 | 1010.9 | 349.2  | 334.7  | 262.2  | 208.4  | 193.2  | 180.1  | 167.7  | 156.0  | 155.3  |
| 80°   | 605.9  | 452.0  | 254.6  | 251.9  | 189.8  | 155.3  | 150.4  | 147.0  | 142.2  | 129.7  | 127.0  |
| 82.5° | 323.6  | 259.5  | 175.3  | 162.9  | 124.2  | 103.5  | 109.0  | 110.4  | 111.1  | 98.0   | 96.6   |
| 85°   | 154.6  | 137.3  | 98.7   | 92.5   | 72.5   | 58.0   | 66.9   | 72.5   | 73.1   | 60.0   | 55.9   |
| 87.5° | 73.8   | 71.8   | 46.2   | 35.2   | 26.9   | 19.3   | 23.5   | 29.0   | 31.7   | 22.8   | 20.0   |
| 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)