

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: P318980

Luminaire Tested: **GAN-SA6D-727-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-727-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38539 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

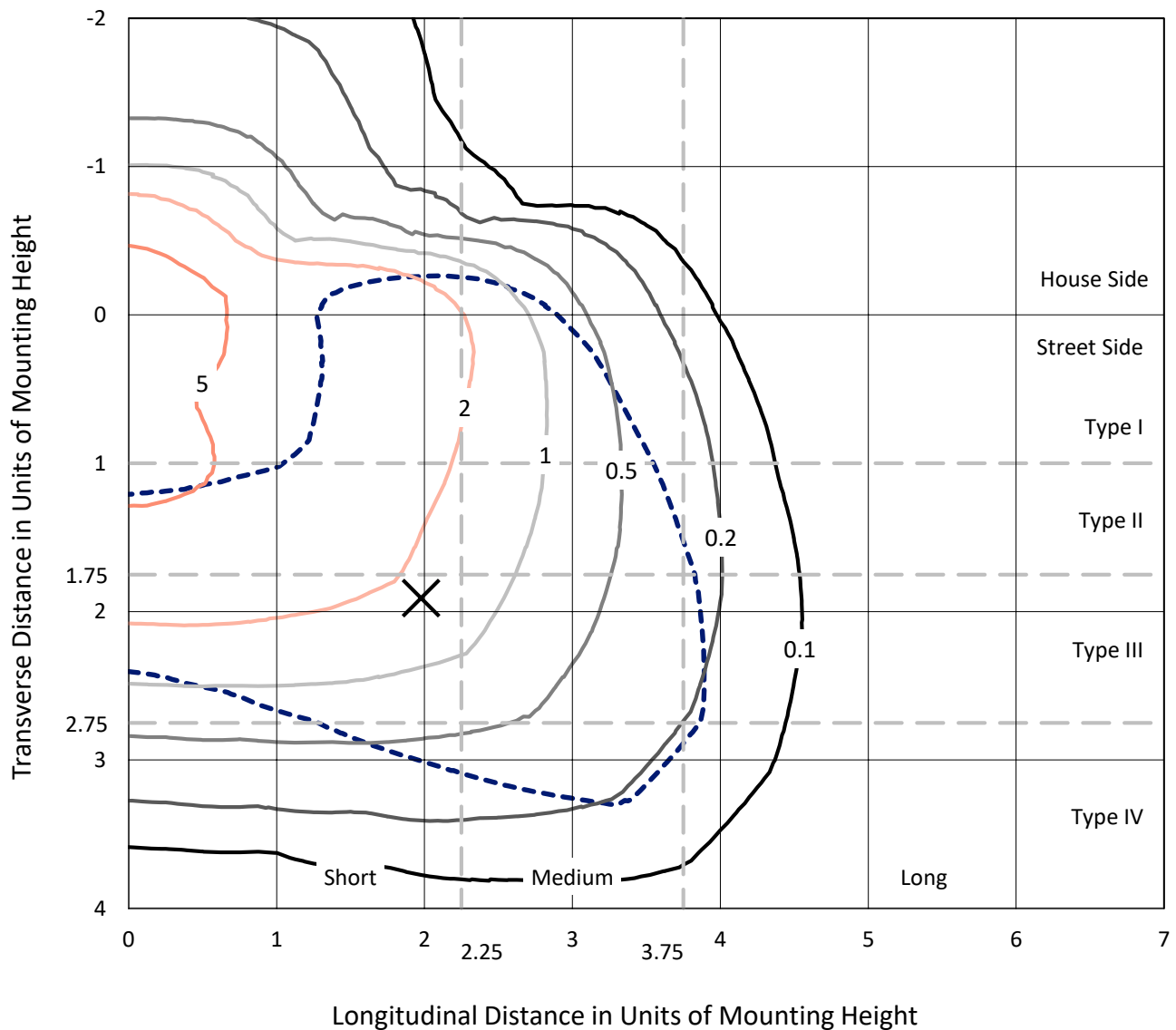
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318980  
 CATALOG NUMBER: GAN-SA6D-727-U-T4W

## Iso-Footcandle Lines of Horizontal Illumination

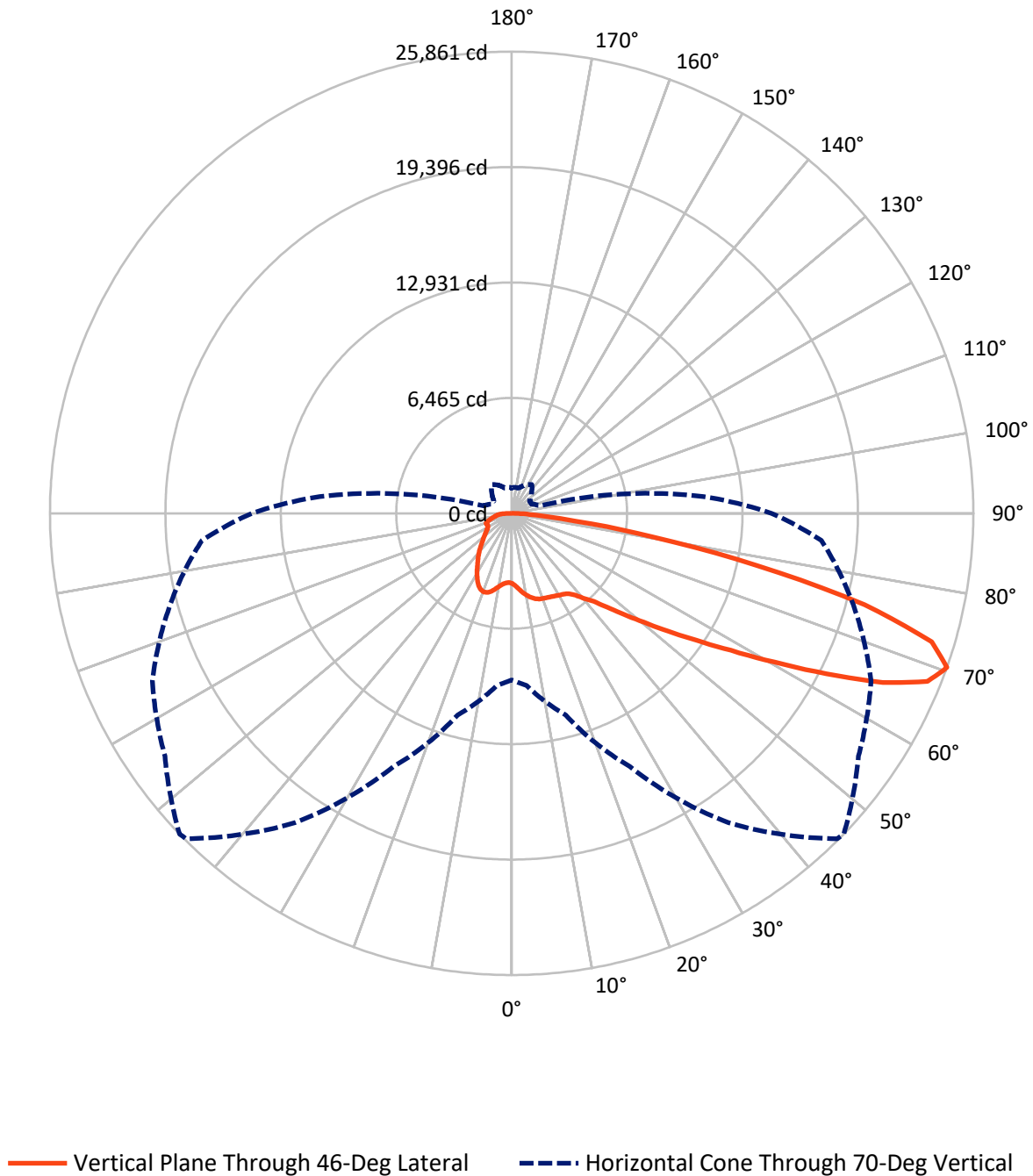
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P318980  
CATALOG NUMBER: GAN-SA6D-727-U-T4W

## Luminous Intensity Polar Plot



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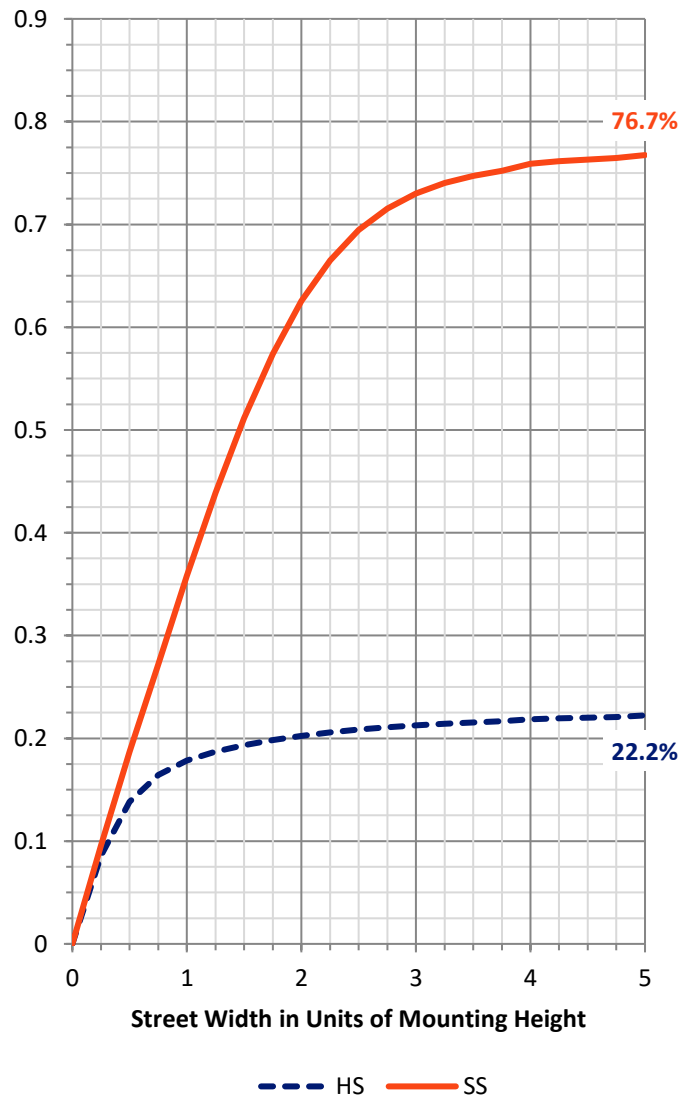
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8833.0   | 0.0    | 8833.0  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 29706.0  | 0.0    | 29706.0 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 38539.0  | 0.0    | 38539.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 400.3   | 1.0       |
| 10°-20°   | 1333.6  | 3.5       |
| 20°-30°   | 2223.6  | 5.8       |
| 30°-40°   | 3155.4  | 8.2       |
| 40°-50°   | 4641.4  | 12.0      |
| 50°-60°   | 7860.1  | 20.4      |
| 60°-70°   | 11157.4 | 29.0      |
| 70°-80°   | 6778.2  | 17.6      |
| 80°-90°   | 989.2   | 2.6       |
| 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°    | 38539.0 | 100.0     |
| 0°-180°   | 38539.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P318980

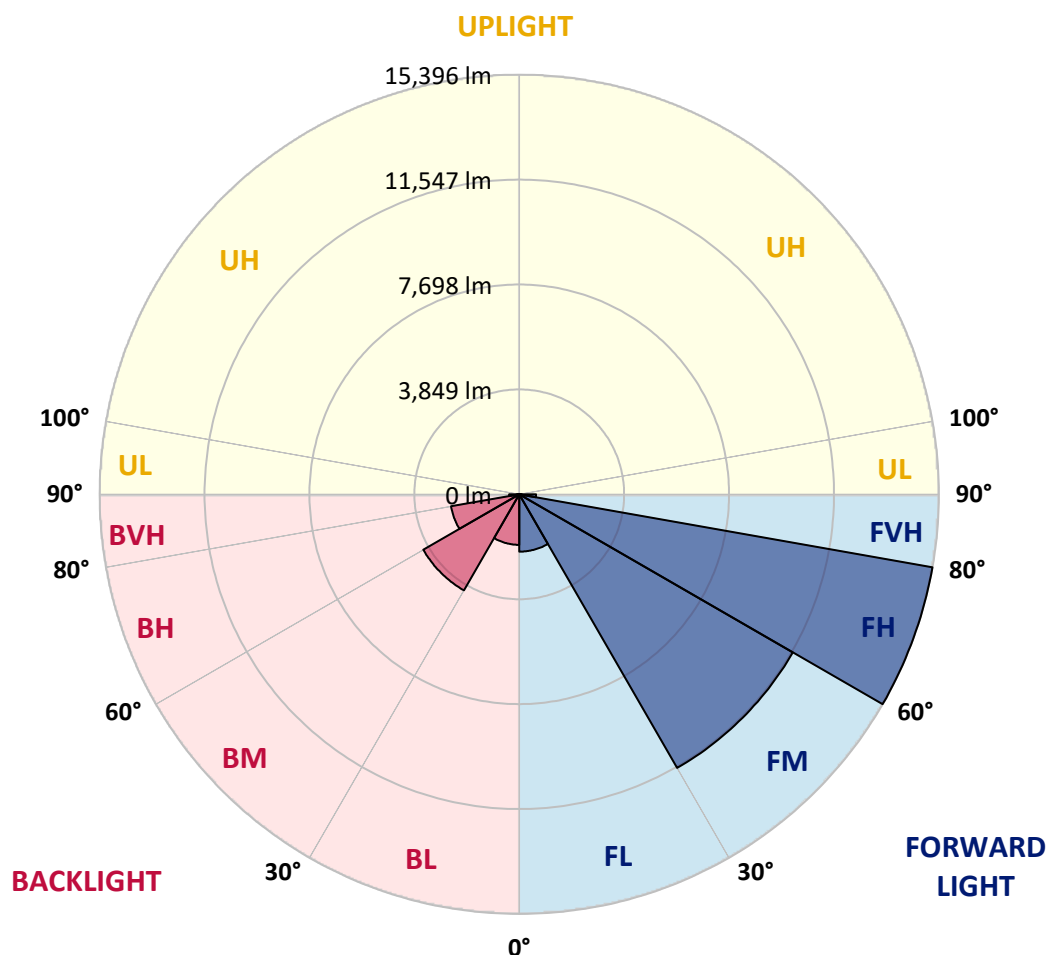
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2102.9  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 11590.8 | 30.1      |                         |      |         |
| FH   | (60°-80°)   | 15396.1 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 616.2   | 1.6       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1854.5  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4066.1  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2539.4  | 6.6       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 373.0   | 1.0       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





REPORT NUMBER: P318980

CATALOG NUMBER: GAN-SA6D-727-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  | 3926.4  |
| 2.5°  | 4122.9  | 4125.5  | 4130.8  | 4117.6  | 4080.7  | 4070.1  | 4066.2  | 4027.9  | 4002.9  | 3965.9  | 3934.3  |
| 5°    | 4452.6  | 4455.2  | 4447.3  | 4410.4  | 4328.6  | 4268.0  | 4262.7  | 4175.6  | 4096.5  | 4012.1  | 3948.8  |
| 7.5°  | 4796.8  | 4800.8  | 4775.7  | 4705.8  | 4591.1  | 4485.6  | 4479.0  | 4360.3  | 4240.3  | 4112.3  | 4017.4  |
| 10°   | 5101.5  | 5085.7  | 5044.8  | 4947.2  | 4811.4  | 4682.1  | 4676.8  | 4552.8  | 4414.4  | 4260.1  | 4133.4  |
| 12.5° | 5304.6  | 5291.4  | 5238.7  | 5120.0  | 4970.9  | 4852.2  | 4841.7  | 4726.9  | 4592.4  | 4423.6  | 4271.9  |
| 15°   | 5416.7  | 5426.0  | 5354.7  | 5220.2  | 5075.1  | 4974.9  | 4965.7  | 4883.9  | 4763.9  | 4593.7  | 4419.6  |
| 17.5° | 5431.2  | 5439.1  | 5370.6  | 5237.4  | 5118.7  | 5050.1  | 5046.1  | 4992.0  | 4905.0  | 4741.5  | 4559.4  |
| 20°   | 5346.8  | 5352.1  | 5295.4  | 5185.9  | 5108.1  | 5087.0  | 5085.7  | 5061.9  | 4997.3  | 4852.2  | 4675.5  |
| 22.5° | 5224.2  | 5228.1  | 5187.2  | 5108.1  | 5081.7  | 5114.7  | 5123.9  | 5114.7  | 5068.5  | 4932.7  | 4766.5  |
| 25°   | 5193.8  | 5191.2  | 5149.0  | 5068.5  | 5091.0  | 5160.9  | 5172.7  | 5176.7  | 5145.0  | 5026.3  | 4882.6  |
| 27.5° | 5340.2  | 5331.0  | 5250.5  | 5121.3  | 5135.8  | 5220.2  | 5236.0  | 5274.3  | 5254.5  | 5150.3  | 5014.5  |
| 30°   | 5763.6  | 5747.8  | 5582.9  | 5321.8  | 5250.5  | 5294.1  | 5313.9  | 5374.5  | 5378.5  | 5291.4  | 5189.9  |
| 32.5° | 6478.4  | 6458.7  | 6163.2  | 5696.3  | 5444.4  | 5369.2  | 5387.7  | 5478.7  | 5527.5  | 5460.3  | 5350.8  |
| 35°   | 7381.9  | 7359.5  | 6971.7  | 6333.4  | 5768.9  | 5513.0  | 5526.2  | 5598.7  | 5696.3  | 5601.4  | 5456.3  |
| 37.5° | 8323.6  | 8269.5  | 7896.3  | 7082.5  | 6284.6  | 5820.3  | 5820.3  | 5829.5  | 5875.7  | 5677.9  | 5580.3  |
| 40°   | 9260.0  | 9205.9  | 8868.3  | 7963.5  | 6951.9  | 6304.3  | 6274.0  | 6069.6  | 6032.7  | 5862.5  | 5829.5  |
| 42.5° | 10130.5 | 10114.7 | 9915.5  | 8959.3  | 7735.4  | 6780.5  | 6738.3  | 6391.4  | 6399.3  | 6293.8  | 6295.1  |
| 45°   | 11056.4 | 11056.4 | 10894.1 | 9964.3  | 8648.0  | 7545.4  | 7503.2  | 6992.8  | 7071.9  | 7023.2  | 7140.5  |
| 47.5° | 11812.1 | 11835.8 | 11813.4 | 11011.5 | 9709.8  | 8517.5  | 8441.0  | 7826.4  | 8047.9  | 8215.4  | 8557.0  |
| 50°   | 12583.6 | 12620.6 | 12624.5 | 12160.3 | 10993.0 | 9672.8  | 9585.8  | 8932.9  | 9427.5  | 9907.6  | 10578.9 |
| 52.5° | 13703.4 | 13786.5 | 13455.4 | 13306.4 | 12565.2 | 11044.5 | 10958.8 | 10356.0 | 11181.6 | 11855.6 | 13012.3 |
| 55°   | 14741.4 | 14668.8 | 14432.7 | 14525.1 | 14248.1 | 12606.1 | 12541.4 | 12012.6 | 13136.3 | 14012.0 | 15514.2 |
| 57.5° | 15303.2 | 15297.9 | 15535.3 | 15931.0 | 16062.9 | 14531.7 | 14477.6 | 13963.2 | 15340.1 | 15998.3 | 17863.2 |
| 60°   | 15962.7 | 15971.9 | 16560.1 | 17458.3 | 18001.7 | 16929.4 | 16905.7 | 16515.3 | 17480.7 | 17852.7 | 19705.7 |
| 62.5° | 16055.0 | 16221.2 | 17234.1 | 18779.8 | 19816.5 | 19730.8 | 19783.5 | 18814.1 | 19395.8 | 19332.5 | 21081.3 |
| 65°   | 14993.3 | 15212.2 | 17045.5 | 19179.5 | 21620.8 | 22794.6 | 22843.4 | 21126.2 | 20905.9 | 20597.3 | 21573.3 |
| 67.5° | 12817.1 | 13141.5 | 15133.1 | 18310.3 | 22215.6 | 25059.1 | 25127.7 | 22918.6 | 22158.9 | 21025.9 | 20388.9 |
| 70°   | 9327.3  | 9687.3  | 11692.1 | 15638.2 | 21155.2 | 25783.2 | 25861.0 | 23711.2 | 22206.3 | 19805.9 | 17405.5 |
| 72.5° | 5634.3  | 5916.6  | 7569.2  | 11512.7 | 17855.3 | 24464.3 | 24602.8 | 22706.2 | 20274.2 | 16776.4 | 12852.7 |
| 75°   | 2474.3  | 2658.9  | 3660.0  | 6634.1  | 12782.8 | 20241.2 | 20414.0 | 19435.3 | 16473.1 | 12191.9 | 7596.9  |
| 77.5° | 1053.8  | 1106.6  | 1500.9  | 2881.8  | 7226.3  | 13831.3 | 14068.7 | 14200.6 | 11176.4 | 6634.1  | 3210.2  |
| 80°   | 656.8   | 677.9   | 849.4   | 1304.4  | 3381.7  | 7768.3  | 8024.2  | 8355.2  | 5549.9  | 2438.6  | 1121.1  |
| 82.5° | 399.6   | 423.4   | 564.5   | 788.7   | 1760.7  | 3521.5  | 3644.1  | 3877.6  | 2153.8  | 1053.8  | 580.3   |
| 85°   | 240.0   | 257.2   | 345.6   | 498.5   | 1002.4  | 1384.8  | 1383.5  | 1529.9  | 1014.2  | 677.9   | 306.0   |
| 87.5° | 114.7   | 127.9   | 184.6   | 258.5   | 505.1   | 519.6   | 486.7   | 551.3   | 615.9   | 444.5   | 154.3   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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CATALOG NUMBER: GAN-SA6D-727-U-T4W

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3926.4  | 3926.4  | 3926.4 | 3926.4 | 3926.4 | 3926.4 | 3926.4 | 3926.4 | 3926.4 | 3926.4 | 3926.4 |
| 2.5°  | 3923.7  | 3918.5  | 3901.3 | 3888.1 | 3885.5 | 3877.6 | 3871.0 | 3874.9 | 3880.2 | 3881.5 | 3881.5 |
| 5°    | 3922.4  | 3907.9  | 3885.5 | 3876.3 | 3888.1 | 3903.9 | 3923.7 | 3950.1 | 3965.9 | 3977.8 | 3985.7 |
| 7.5°  | 3985.7  | 3958.0  | 3933.0 | 3927.7 | 3951.4 | 3993.6 | 4038.5 | 4093.9 | 4132.1 | 4158.5 | 4163.8 |
| 10°   | 4091.2  | 4056.9  | 4031.9 | 4037.2 | 4079.4 | 4140.0 | 4203.3 | 4274.6 | 4332.6 | 4368.2 | 4370.8 |
| 12.5° | 4212.6  | 4179.6  | 4155.9 | 4178.3 | 4248.2 | 4322.0 | 4388.0 | 4450.0 | 4502.7 | 4538.3 | 4538.3 |
| 15°   | 4352.4  | 4328.6  | 4300.9 | 4352.4 | 4447.3 | 4513.3 | 4541.0 | 4571.3 | 4600.3 | 4626.7 | 4621.4 |
| 17.5° | 4486.9  | 4464.5  | 4450.0 | 4510.6 | 4609.6 | 4639.9 | 4621.4 | 4599.0 | 4599.0 | 4613.5 | 4616.2 |
| 20°   | 4603.0  | 4583.2  | 4592.4 | 4651.8 | 4703.2 | 4671.5 | 4603.0 | 4531.7 | 4502.7 | 4510.6 | 4518.6 |
| 22.5° | 4704.5  | 4695.3  | 4723.0 | 4750.7 | 4713.8 | 4603.0 | 4476.4 | 4380.1 | 4344.5 | 4341.8 | 4344.5 |
| 25°   | 4823.2  | 4821.9  | 4856.2 | 4806.1 | 4642.5 | 4438.1 | 4268.0 | 4174.3 | 4154.5 | 4170.4 | 4196.7 |
| 27.5° | 4970.9  | 4985.4  | 5002.6 | 4819.3 | 4497.5 | 4188.8 | 4016.1 | 3951.4 | 3971.2 | 4009.5 | 4034.5 |
| 30°   | 5159.5  | 5199.1  | 5162.2 | 4786.3 | 4289.1 | 3903.9 | 3739.1 | 3720.6 | 3774.7 | 3828.8 | 3855.1 |
| 32.5° | 5342.9  | 5404.9  | 5315.2 | 4700.6 | 4020.0 | 3601.9 | 3474.0 | 3468.7 | 3534.7 | 3587.4 | 3624.3 |
| 35°   | 5490.6  | 5613.2  | 5429.9 | 4530.4 | 3708.8 | 3323.6 | 3230.0 | 3194.4 | 3218.1 | 3280.1 | 3322.3 |
| 37.5° | 5683.1  | 5887.6  | 5509.1 | 4270.6 | 3371.1 | 3094.1 | 2984.7 | 2902.9 | 2881.8 | 2906.9 | 2928.0 |
| 40°   | 6035.3  | 6305.7  | 5546.0 | 3907.9 | 3041.4 | 2864.7 | 2753.9 | 2633.8 | 2550.8 | 2490.1 | 2491.4 |
| 42.5° | 6610.3  | 6850.4  | 5522.2 | 3467.4 | 2736.7 | 2640.4 | 2515.1 | 2376.7 | 2242.1 | 2105.0 | 2094.4 |
| 45°   | 7544.1  | 7660.2  | 5451.0 | 3000.5 | 2469.0 | 2405.7 | 2288.3 | 2149.8 | 1970.4 | 1814.8 | 1800.3 |
| 47.5° | 9038.4  | 8781.2  | 5340.2 | 2593.0 | 2232.9 | 2206.5 | 2098.4 | 1938.8 | 1748.9 | 1623.6 | 1613.0 |
| 50°   | 11076.1 | 10399.5 | 5286.2 | 2268.5 | 2024.5 | 2032.4 | 1944.1 | 1775.2 | 1595.9 | 1503.5 | 1493.0 |
| 52.5° | 13513.5 | 12284.2 | 5390.4 | 2017.9 | 1857.0 | 1884.7 | 1818.8 | 1660.5 | 1510.1 | 1437.6 | 1427.1 |
| 55°   | 16041.8 | 14236.2 | 5502.5 | 1835.9 | 1698.7 | 1752.8 | 1730.4 | 1599.8 | 1464.0 | 1396.7 | 1387.5 |
| 57.5° | 18206.1 | 15693.6 | 5278.2 | 1688.2 | 1557.6 | 1642.0 | 1661.8 | 1561.6 | 1440.2 | 1379.6 | 1369.0 |
| 60°   | 19568.5 | 16280.5 | 4690.0 | 1549.7 | 1445.5 | 1553.7 | 1622.2 | 1551.0 | 1449.5 | 1444.2 | 1436.3 |
| 62.5° | 20214.8 | 16229.1 | 3807.7 | 1440.2 | 1375.6 | 1515.4 | 1651.3 | 1610.4 | 1555.0 | 1602.5 | 1606.4 |
| 65°   | 19924.6 | 15453.6 | 2835.6 | 1367.7 | 1325.5 | 1529.9 | 1738.3 | 1722.5 | 1585.3 | 1632.8 | 1639.4 |
| 67.5° | 18014.9 | 13603.2 | 2099.7 | 1304.4 | 1270.1 | 1570.8 | 1896.6 | 1759.4 | 1526.0 | 1560.3 | 1539.2 |
| 70°   | 14560.7 | 10784.7 | 1619.6 | 1233.2 | 1213.4 | 1565.5 | 1967.8 | 1737.0 | 1461.3 | 1469.3 | 1412.5 |
| 72.5° | 10040.8 | 7354.2  | 1317.6 | 1167.2 | 1131.6 | 1427.1 | 1917.7 | 1681.6 | 1407.3 | 1346.6 | 1271.4 |
| 75°   | 5460.3  | 3947.5  | 1119.7 | 1098.6 | 987.9  | 1253.0 | 1825.4 | 1642.0 | 1358.5 | 1278.0 | 1235.8 |
| 77.5° | 2148.5  | 1638.1  | 972.0  | 1005.0 | 863.9  | 1106.6 | 1722.5 | 1566.9 | 1291.2 | 1185.7 | 1164.6 |
| 80°   | 877.1   | 836.2   | 805.8  | 869.2  | 742.5  | 968.1  | 1598.5 | 1478.5 | 1210.8 | 1100.0 | 1057.8 |
| 82.5° | 497.2   | 519.6   | 626.5  | 685.8  | 602.7  | 891.6  | 1539.2 | 1407.3 | 1114.5 | 985.2  | 935.1  |
| 85°   | 254.5   | 304.7   | 436.6  | 492.0  | 443.2  | 758.4  | 1417.8 | 1231.9 | 894.2  | 754.4  | 758.4  |
| 87.5° | 122.7   | 170.1   | 275.7  | 308.6  | 287.5  | 548.7  | 1059.1 | 892.9  | 696.4  | 551.3  | 534.2  |
| 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)