

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: P317993

Luminaire Tested: **GAN-SA9A-727-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34190 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

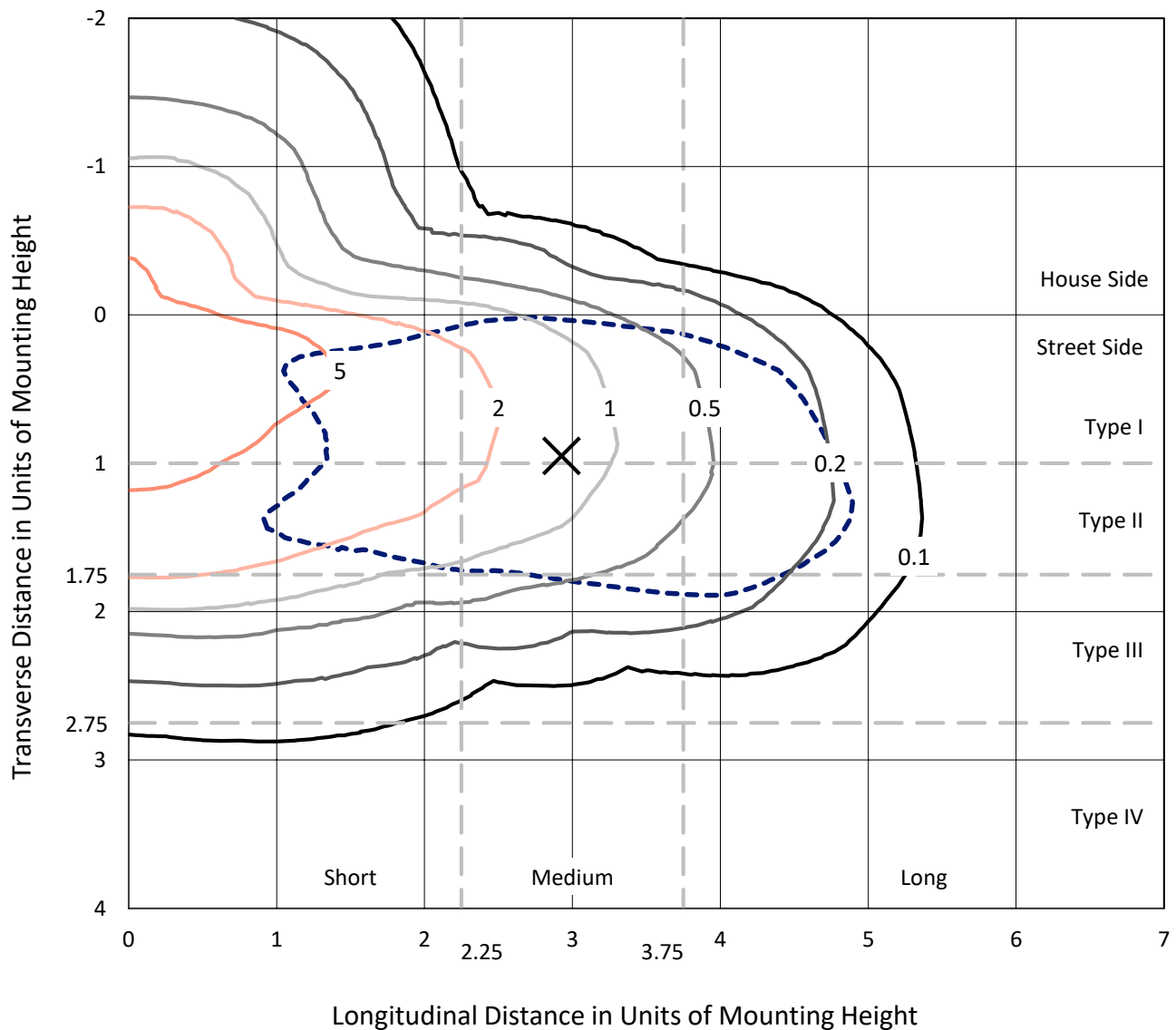
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P317993  
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## Iso-Footcandle Lines of Horizontal Illumination

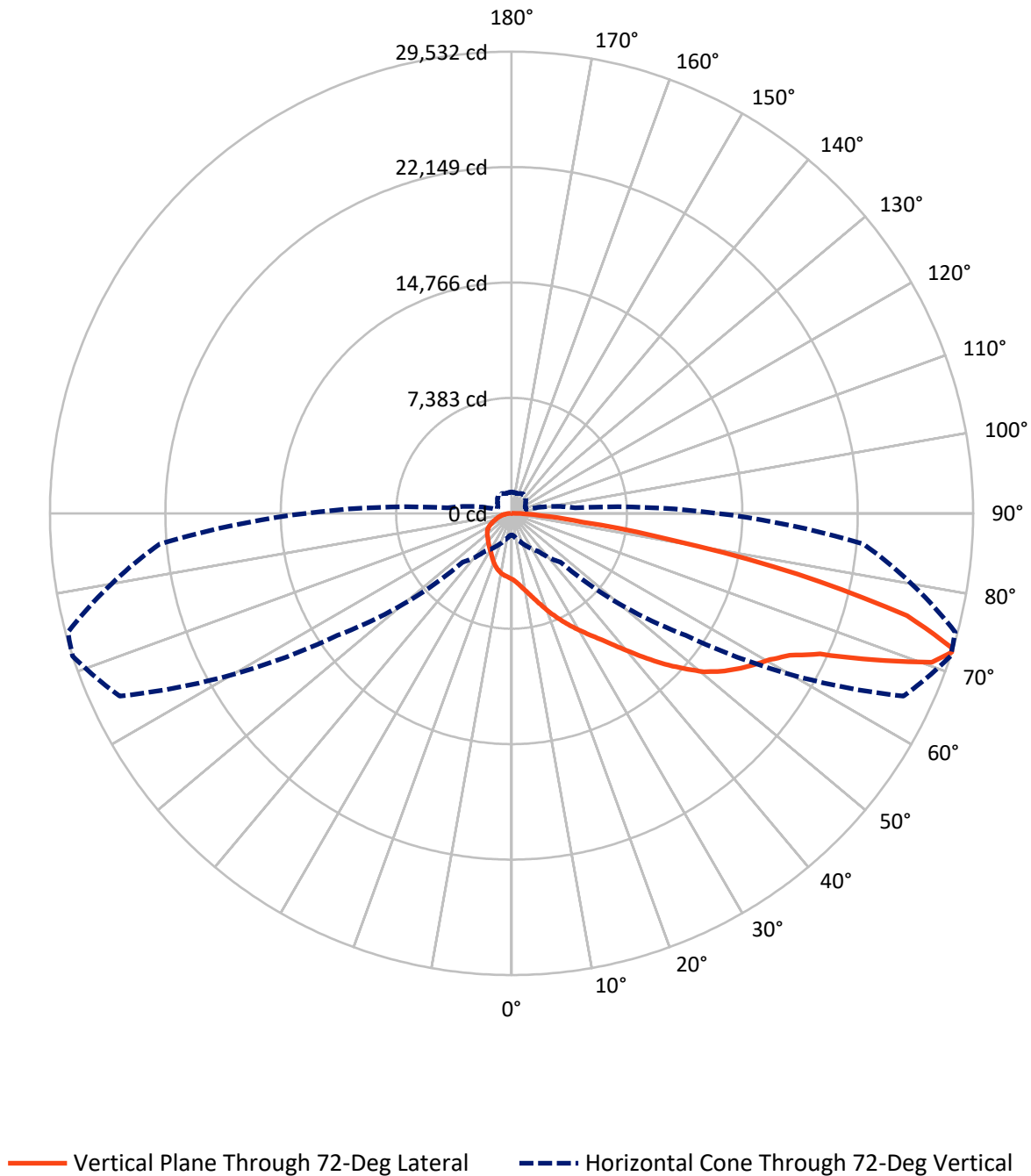
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - 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    | 6342.5   | 0.0    | 6342.5  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 27847.5  | 0.0    | 27847.5 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 34190.0  | 0.0    | 34190.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 421.5   | 1.2       |
| 10°-20°   | 1362.0  | 4.0       |
| 20°-30°   | 2386.7  | 7.0       |
| 30°-40°   | 3538.7  | 10.4      |
| 40°-50°   | 5175.6  | 15.1      |
| 50°-60°   | 7121.6  | 20.8      |
| 60°-70°   | 7928.5  | 23.2      |
| 70°-80°   | 5372.3  | 15.7      |
| 80°-90°   | 883.0   | 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°    | 34190.0 | 100.0     |
| 0°-180°   | 34190.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P317993

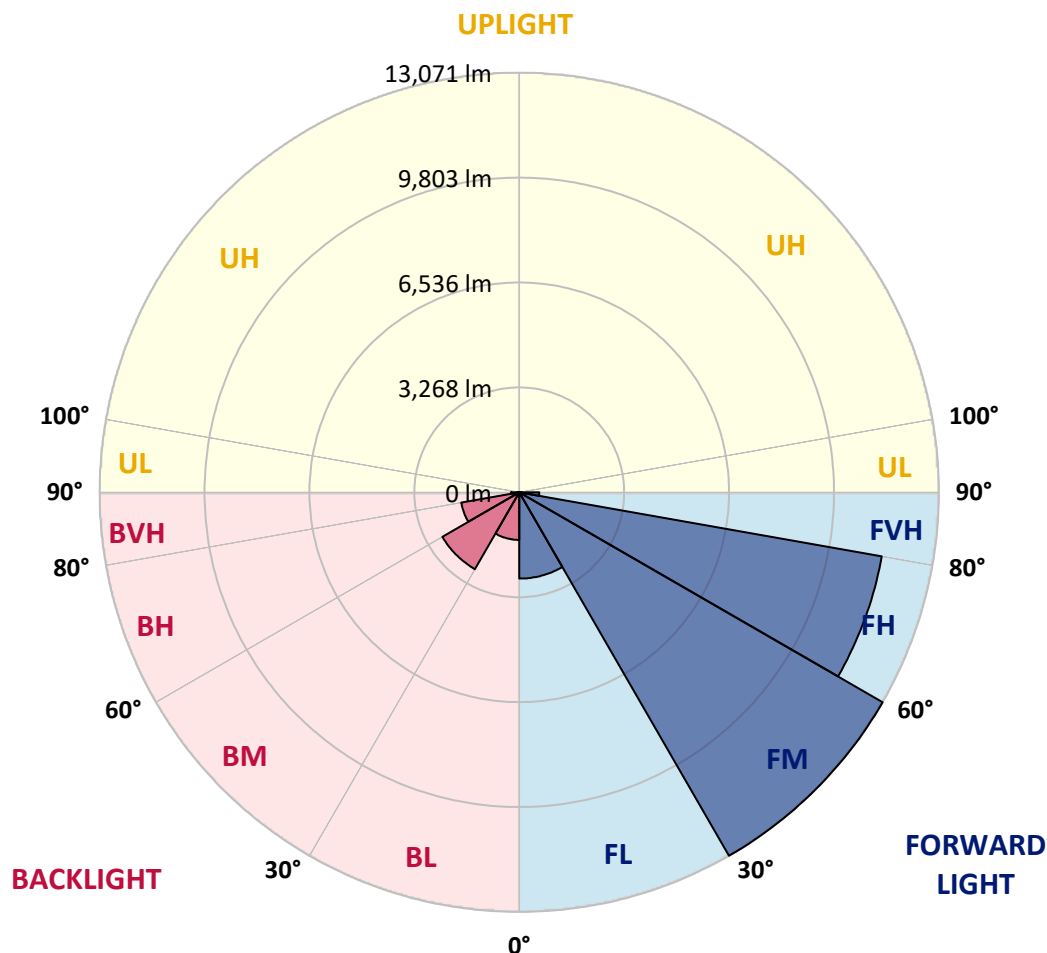
CATALOG NUMBER: GAN-SA9A-727-U-T2

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2687.5  | 7.9       |                         |      |          |
| FM   | (30°-60°)   | 13071.3 | 38.2      |                         |      |          |
| FH   | (60°-80°)   | 11465.9 | 33.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 622.8   | 1.8       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1482.6  | 4.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2764.7  | 8.1       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1835.0  | 5.4       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 260.1   | 0.8       |                         |      | G3/500   |
| 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: P317993

CATALOG NUMBER: GAN-SA9A-727-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  | 4206.3  |
| 2.5°  | 4646.5  | 4639.5  | 4614.8  | 4614.8  | 4567.7  | 4527.6  | 4452.3  | 4401.7  | 4341.6  | 4320.5  | 4249.8  |
| 5°    | 5096.3  | 5098.6  | 5068.0  | 5046.8  | 4977.4  | 4892.6  | 4764.3  | 4647.7  | 4531.2  | 4484.1  | 4339.3  |
| 7.5°  | 5474.1  | 5469.4  | 5461.2  | 5443.5  | 5378.8  | 5291.7  | 5118.6  | 4945.6  | 4773.7  | 4703.1  | 4453.5  |
| 10°   | 5716.7  | 5727.3  | 5734.3  | 5742.6  | 5715.5  | 5653.1  | 5489.4  | 5278.7  | 5053.9  | 4957.3  | 4590.0  |
| 12.5° | 5839.1  | 5857.9  | 5890.9  | 5947.4  | 5992.1  | 5985.1  | 5866.2  | 5642.5  | 5375.3  | 5254.0  | 4760.7  |
| 15°   | 5910.9  | 5935.6  | 5987.4  | 6088.7  | 6214.6  | 6286.4  | 6254.7  | 6052.2  | 5754.3  | 5604.8  | 4969.1  |
| 17.5° | 5955.6  | 5975.6  | 6055.7  | 6191.1  | 6378.3  | 6569.0  | 6652.6  | 6483.0  | 6182.8  | 6012.1  | 5208.1  |
| 20°   | 5986.2  | 6001.5  | 6101.6  | 6260.5  | 6503.0  | 6806.8  | 7039.9  | 6997.5  | 6654.9  | 6433.6  | 5457.7  |
| 22.5° | 6054.5  | 6067.5  | 6162.8  | 6322.9  | 6591.3  | 6983.4  | 7413.1  | 7476.6  | 7152.9  | 6902.1  | 5724.9  |
| 25°   | 6245.2  | 6245.2  | 6325.3  | 6437.1  | 6689.1  | 7136.4  | 7728.6  | 8009.9  | 7661.4  | 7369.5  | 5972.1  |
| 27.5° | 6609.0  | 6605.5  | 6634.9  | 6673.7  | 6864.5  | 7291.8  | 8009.9  | 8480.8  | 8188.8  | 7869.8  | 6212.3  |
| 30°   | 7039.9  | 7063.4  | 7066.9  | 7048.1  | 7137.6  | 7486.0  | 8270.1  | 8977.6  | 8719.8  | 8376.0  | 6458.3  |
| 32.5° | 7594.3  | 7609.6  | 7592.0  | 7529.6  | 7516.6  | 7761.5  | 8525.5  | 9497.9  | 9294.3  | 8904.6  | 6683.2  |
| 35°   | 8298.3  | 8268.9  | 8213.6  | 8086.4  | 7965.2  | 8130.0  | 8817.5  | 10018.3 | 9939.4  | 9543.8  | 6992.8  |
| 37.5° | 9052.9  | 9054.1  | 8985.8  | 8697.4  | 8530.2  | 8600.9  | 9220.1  | 10608.1 | 10719.9 | 10304.3 | 7389.5  |
| 40°   | 9658.0  | 9689.8  | 9732.2  | 9353.1  | 9136.5  | 9234.2  | 9732.2  | 11292.0 | 11642.9 | 11206.1 | 7906.3  |
| 42.5° | 10080.7 | 10117.2 | 10237.2 | 9999.4  | 9774.6  | 9955.9  | 10334.9 | 12021.9 | 12678.8 | 12246.8 | 8511.4  |
| 45°   | 10528.0 | 10548.0 | 10632.8 | 10530.4 | 10386.7 | 10795.2 | 11014.2 | 12777.7 | 13774.8 | 13355.7 | 9188.3  |
| 47.5° | 10998.9 | 11020.1 | 11107.2 | 11038.9 | 10963.6 | 11579.3 | 11722.9 | 13489.9 | 14824.9 | 14574.2 | 9911.1  |
| 50°   | 11580.5 | 11594.6 | 11677.0 | 11553.4 | 11576.9 | 12170.3 | 12356.3 | 14143.3 | 15925.6 | 15669.0 | 10636.3 |
| 52.5° | 12373.9 | 12377.5 | 12491.6 | 12379.8 | 12269.1 | 12603.5 | 12901.3 | 14759.0 | 16788.6 | 16667.3 | 11361.5 |
| 55°   | 12995.5 | 13033.2 | 13407.5 | 13384.0 | 13320.4 | 12996.7 | 13356.9 | 15345.3 | 17558.5 | 17616.2 | 12131.4 |
| 57.5° | 12598.8 | 12745.9 | 13504.1 | 14038.5 | 14558.9 | 13975.0 | 13972.6 | 16005.7 | 18274.2 | 18547.3 | 12977.8 |
| 60°   | 11034.2 | 11234.4 | 12351.6 | 13537.0 | 15165.1 | 15677.2 | 15251.1 | 16812.1 | 18997.0 | 19470.3 | 14038.5 |
| 62.5° | 7880.4  | 8210.0  | 9724.0  | 11617.0 | 14334.0 | 16805.0 | 17852.8 | 18091.8 | 19980.0 | 20539.2 | 15417.1 |
| 65°   | 3983.8  | 4233.3  | 5502.4  | 7782.7  | 11452.1 | 16068.1 | 20680.5 | 20893.6 | 21688.2 | 22185.0 | 17539.6 |
| 67.5° | 2420.4  | 2514.6  | 3133.8  | 4328.7  | 7021.0  | 12516.4 | 21603.4 | 25563.7 | 24993.9 | 25257.6 | 20566.3 |
| 70°   | 1783.5  | 1853.0  | 2239.1  | 2874.8  | 4037.9  | 7344.8  | 18771.0 | 28896.4 | 28522.1 | 28492.6 | 22803.0 |
| 72°   | 1389.1  | 1439.8  | 1781.2  | 2322.7  | 2952.5  | 4406.4  | 13605.3 | 27666.2 | 29532.1 | 29383.8 | 22598.2 |
| 72.5° | 1317.3  | 1362.1  | 1672.9  | 2186.1  | 2790.0  | 3994.4  | 12232.7 | 26836.3 | 29459.1 | 29392.0 | 22333.3 |
| 75°   | 1037.1  | 1068.9  | 1238.5  | 1690.5  | 2183.8  | 2266.2  | 6703.2  | 20797.0 | 26133.4 | 27220.0 | 20087.2 |
| 77.5° | 858.2   | 862.9   | 952.4   | 1230.2  | 1702.3  | 1602.2  | 3292.7  | 14429.4 | 18713.3 | 19908.2 | 14229.2 |
| 80°   | 699.3   | 705.2   | 747.5   | 862.9   | 1287.9  | 1185.5  | 1563.4  | 8297.2  | 10477.4 | 10490.3 | 6766.7  |
| 82.5° | 556.8   | 558.0   | 605.1   | 631.0   | 925.3   | 847.6   | 895.9   | 3895.5  | 4578.3  | 4404.0  | 2432.2  |
| 85°   | 392.0   | 383.8   | 591.0   | 518.0   | 605.1   | 543.9   | 494.4   | 1542.2  | 1893.0  | 1810.6  | 761.7   |
| 87.5° | 130.7   | 135.4   | 262.5   | 335.5   | 353.2   | 308.4   | 220.1   | 591.0   | 714.6   | 708.7   | 241.3   |
| 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-SA9A-727-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4206.3  | 4206.3 | 4206.3 | 4206.3 | 4206.3 | 4206.3 | 4206.3 | 4206.3 | 4206.3 | 4206.3 | 4206.3 |
| 2.5°  | 4227.5  | 4189.8 | 4134.5 | 4073.2 | 4025.0 | 3975.5 | 3939.0 | 3920.2 | 3899.0 | 3881.3 | 3902.5 |
| 5°    | 4272.2  | 4201.6 | 4083.8 | 3968.5 | 3883.7 | 3808.4 | 3754.2 | 3725.9 | 3700.1 | 3682.4 | 3684.7 |
| 7.5°  | 4345.2  | 4231.0 | 4033.2 | 3864.9 | 3747.1 | 3665.9 | 3610.6 | 3591.7 | 3575.3 | 3570.6 | 3576.4 |
| 10°   | 4422.9  | 4254.5 | 3966.1 | 3742.4 | 3608.2 | 3541.1 | 3516.4 | 3529.4 | 3541.1 | 3551.7 | 3563.5 |
| 12.5° | 4511.2  | 4275.7 | 3868.4 | 3598.8 | 3484.6 | 3458.7 | 3483.4 | 3539.9 | 3581.1 | 3605.9 | 3621.2 |
| 15°   | 4626.5  | 4294.6 | 3755.4 | 3455.2 | 3378.7 | 3408.1 | 3491.7 | 3589.4 | 3661.2 | 3707.1 | 3714.2 |
| 17.5° | 4732.5  | 4293.4 | 3610.6 | 3310.4 | 3292.7 | 3378.7 | 3504.6 | 3642.4 | 3738.9 | 3803.6 | 3816.6 |
| 20°   | 4842.0  | 4261.6 | 3442.2 | 3169.1 | 3205.6 | 3346.9 | 3510.5 | 3676.5 | 3793.1 | 3868.4 | 3886.1 |
| 22.5° | 4944.4  | 4206.3 | 3257.4 | 3040.8 | 3132.6 | 3304.5 | 3488.1 | 3656.5 | 3773.0 | 3834.3 | 3853.1 |
| 25°   | 5013.8  | 4109.7 | 3070.2 | 2932.5 | 3067.9 | 3252.7 | 3415.2 | 3550.5 | 3637.7 | 3668.3 | 3673.0 |
| 27.5° | 5049.2  | 3983.8 | 2893.6 | 2838.3 | 3000.8 | 3167.9 | 3279.8 | 3346.9 | 3371.6 | 3369.2 | 3364.5 |
| 30°   | 5053.9  | 3817.8 | 2741.8 | 2761.8 | 2923.1 | 3043.2 | 3096.1 | 3083.2 | 3051.4 | 2997.2 | 3002.0 |
| 32.5° | 5038.6  | 3630.6 | 2614.6 | 2688.8 | 2824.2 | 2891.3 | 2893.6 | 2831.3 | 2746.5 | 2660.6 | 2637.0 |
| 35°   | 5043.3  | 3446.9 | 2502.8 | 2606.4 | 2704.1 | 2733.5 | 2706.5 | 2614.6 | 2499.3 | 2388.6 | 2365.1 |
| 37.5° | 5095.1  | 3286.8 | 2406.3 | 2511.0 | 2571.1 | 2578.1 | 2539.3 | 2442.8 | 2358.0 | 2249.7 | 2240.3 |
| 40°   | 5218.7  | 3172.6 | 2314.4 | 2403.9 | 2438.1 | 2441.6 | 2386.3 | 2318.0 | 2325.0 | 2267.4 | 2266.2 |
| 42.5° | 5441.2  | 3123.2 | 2233.2 | 2292.1 | 2313.3 | 2320.3 | 2278.0 | 2234.4 | 2295.6 | 2257.9 | 2245.0 |
| 45°   | 5728.4  | 3135.0 | 2164.9 | 2182.6 | 2221.4 | 2254.4 | 2228.5 | 2175.5 | 2199.1 | 2035.4 | 1981.3 |
| 47.5° | 6060.4  | 3210.3 | 2110.8 | 2088.4 | 2155.5 | 2217.9 | 2177.9 | 2097.8 | 2014.2 | 1851.8 | 1821.2 |
| 50°   | 6448.9  | 3326.9 | 2061.3 | 1995.4 | 2083.7 | 2168.5 | 2128.4 | 2014.2 | 1888.3 | 1809.4 | 1798.8 |
| 52.5° | 6853.9  | 3469.3 | 2011.9 | 1893.0 | 1993.1 | 2130.8 | 2110.8 | 1995.4 | 1840.0 | 1762.3 | 1748.2 |
| 55°   | 7313.0  | 3612.9 | 1949.5 | 1774.1 | 1895.3 | 2113.1 | 2102.5 | 1927.1 | 1803.5 | 1760.0 | 1749.4 |
| 57.5° | 7883.9  | 3776.6 | 1867.1 | 1650.5 | 1803.5 | 2049.6 | 2016.6 | 1885.9 | 1765.9 | 1732.9 | 1729.4 |
| 60°   | 8628.0  | 4017.9 | 1748.2 | 1518.6 | 1691.7 | 1951.9 | 1944.8 | 1825.9 | 1705.8 | 1682.3 | 1677.6 |
| 62.5° | 9744.0  | 4417.0 | 1584.6 | 1386.8 | 1566.9 | 1785.9 | 1850.6 | 1744.7 | 1642.2 | 1641.1 | 1643.4 |
| 65°   | 11474.5 | 5017.4 | 1406.8 | 1271.4 | 1440.9 | 1645.8 | 1741.1 | 1661.1 | 1577.5 | 1601.0 | 1604.6 |
| 67.5° | 13480.5 | 5515.3 | 1232.6 | 1158.4 | 1312.6 | 1512.7 | 1642.2 | 1577.5 | 1491.6 | 1552.8 | 1554.0 |
| 70°   | 14148.0 | 5070.4 | 1079.5 | 1046.6 | 1179.6 | 1384.4 | 1535.1 | 1485.7 | 1398.6 | 1459.8 | 1453.9 |
| 72°   | 13166.2 | 4093.2 | 980.6  | 961.8  | 1079.5 | 1278.5 | 1439.8 | 1399.7 | 1313.8 | 1355.0 | 1339.7 |
| 72.5° | 12856.6 | 3902.5 | 955.9  | 940.6  | 1052.4 | 1251.4 | 1415.0 | 1378.5 | 1292.6 | 1327.9 | 1313.8 |
| 75°   | 11468.6 | 3389.3 | 821.7  | 825.2  | 918.2  | 1119.6 | 1276.1 | 1264.4 | 1176.1 | 1179.6 | 1174.9 |
| 77.5° | 8318.3  | 2485.1 | 692.2  | 715.8  | 781.7  | 984.2  | 1136.0 | 1129.0 | 1032.4 | 1014.8 | 1011.2 |
| 80°   | 3860.2  | 1267.9 | 563.9  | 574.5  | 642.8  | 822.9  | 968.9  | 959.4  | 881.7  | 859.4  | 846.4  |
| 82.5° | 1322.0  | 602.7  | 423.8  | 430.9  | 498.0  | 662.8  | 840.5  | 834.7  | 769.9  | 726.4  | 699.3  |
| 85°   | 472.1   | 300.2  | 296.7  | 289.6  | 355.5  | 521.5  | 732.2  | 700.5  | 605.1  | 515.6  | 513.3  |
| 87.5° | 153.0   | 128.3  | 153.0  | 151.9  | 207.2  | 353.2  | 532.1  | 453.2  | 439.1  | 364.9  | 357.9  |
| 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)