

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: P318207

Luminaire Tested: **GAN-SA3C-827-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318207  
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-SA3C-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15577 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

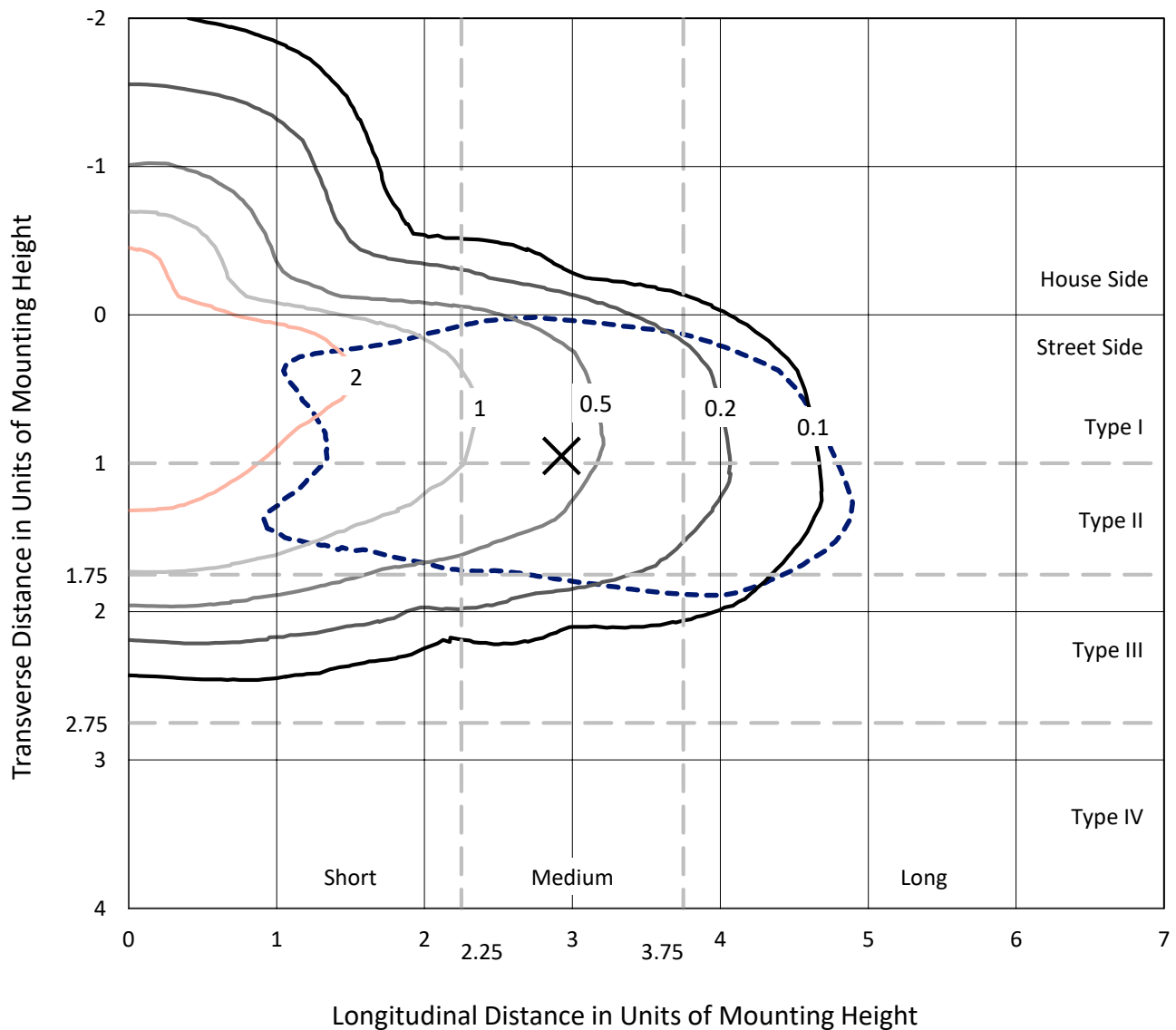
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P318207  
CATALOG NUMBER: GAN-SA3C-827-U-T2

## Iso-Footcandle Lines of Horizontal Illumination

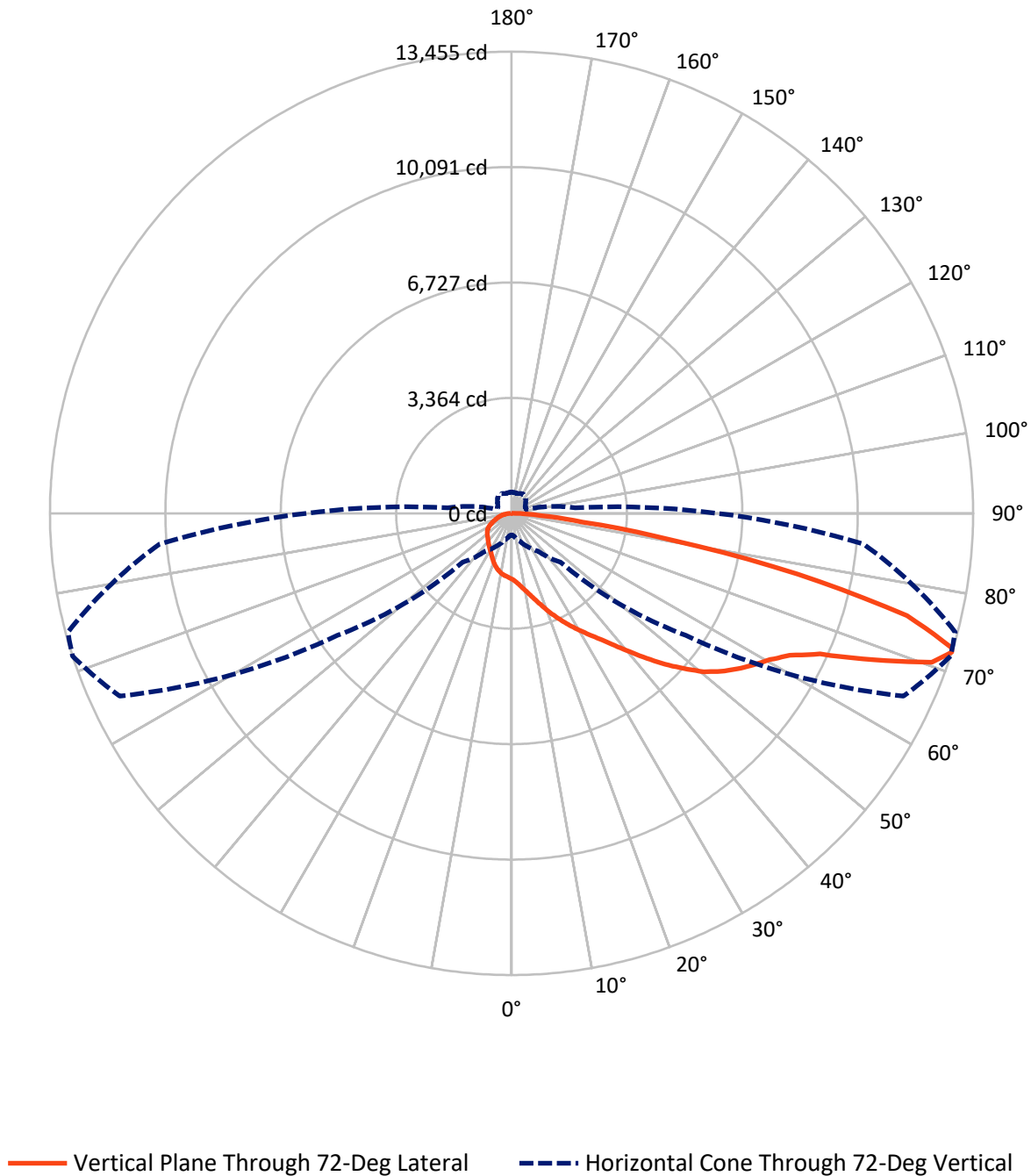
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
Type III - Medium - N/A

REPORT NUMBER: P318207  
CATALOG NUMBER: GAN-SA3C-827-U-T2

## Luminous Intensity Polar Plot



REPORT NUMBER: P318207

CATALOG NUMBER: GAN-SA3C-827-U-T2

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2889.6   | 0.0    | 2889.6  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 12687.4  | 0.0    | 12687.4 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 15577.0  | 0.0    | 15577.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 192.0   | 1.2       |
| 10°-20°   | 620.5   | 4.0       |
| 20°-30°   | 1087.4  | 7.0       |
| 30°-40°   | 1612.2  | 10.4      |
| 40°-50°   | 2358.0  | 15.1      |
| 50°-60°   | 3244.6  | 20.8      |
| 60°-70°   | 3612.2  | 23.2      |
| 70°-80°   | 2447.6  | 15.7      |
| 80°-90°   | 402.3   | 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°    | 15577.0 | 100.0     |
| 0°-180°   | 15577.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P318207

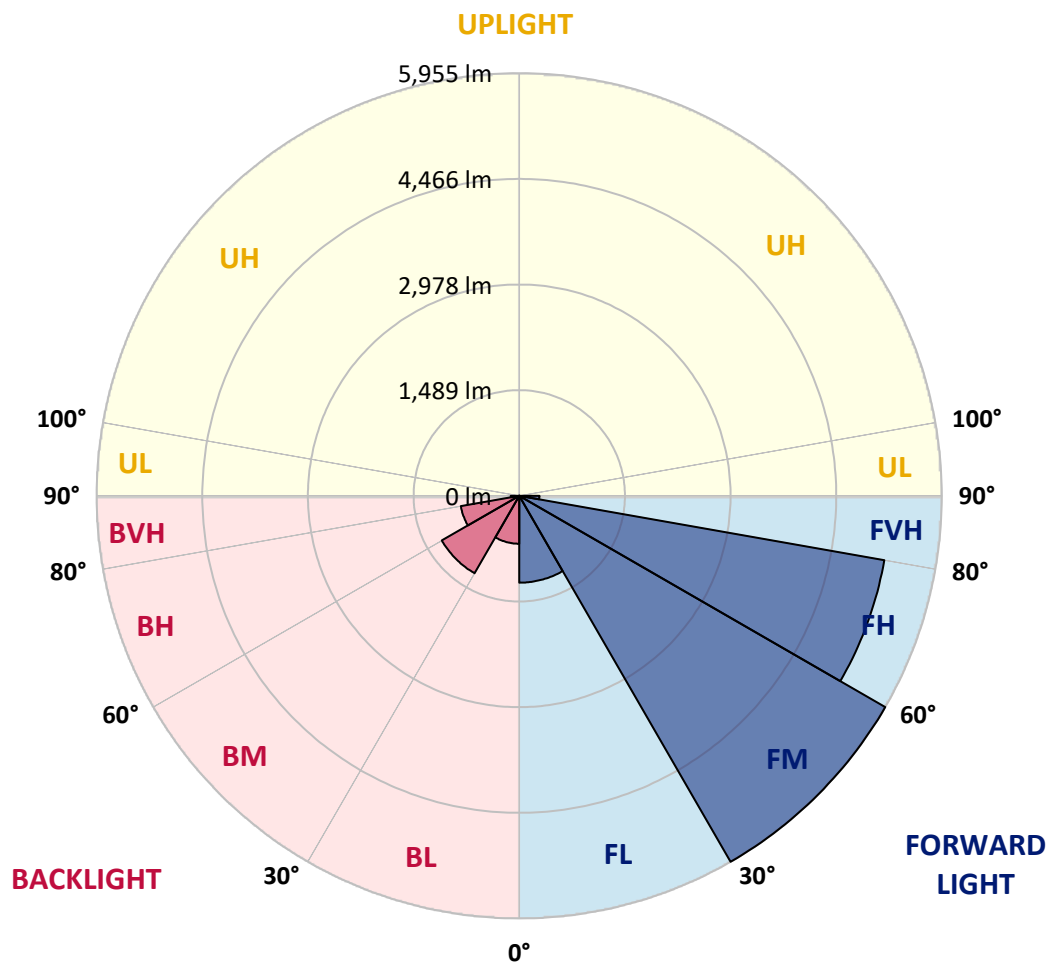
CATALOG NUMBER: GAN-SA3C-827-U-T2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1224.4 | 7.9       |                         |      |         |
| FM   | (30°-60°)   | 5955.3 | 38.2      |                         |      |         |
| FH   | (60°-80°)   | 5223.9 | 33.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 283.8  | 1.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 675.5  | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1259.6 | 8.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 836.0  | 5.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 118.5  | 0.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Medium





REPORT NUMBER: P318207

CATALOG NUMBER: GAN-SA3C-827-U-T2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 72°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4  | 1916.4  | 1916.4  | 1916.4  |
| 2.5°  | 2117.0 | 2113.8 | 2102.5 | 2102.5 | 2081.0 | 2062.8 | 2028.5 | 2005.4  | 1978.1  | 1968.4  | 1936.2  |
| 5°    | 2321.9 | 2322.9 | 2309.0 | 2299.3 | 2267.7 | 2229.1 | 2170.6 | 2117.5  | 2064.4  | 2043.0  | 1977.0  |
| 7.5°  | 2494.0 | 2491.9 | 2488.1 | 2480.1 | 2450.6 | 2410.9 | 2332.0 | 2253.2  | 2174.9  | 2142.7  | 2029.0  |
| 10°   | 2604.5 | 2609.3 | 2612.6 | 2616.3 | 2604.0 | 2575.6 | 2501.0 | 2405.0  | 2302.5  | 2258.6  | 2091.2  |
| 12.5° | 2660.3 | 2668.9 | 2683.9 | 2709.6 | 2730.0 | 2726.8 | 2672.6 | 2570.7  | 2449.0  | 2393.7  | 2169.0  |
| 15°   | 2693.0 | 2704.3 | 2727.9 | 2774.0 | 2831.4 | 2864.1 | 2849.6 | 2757.4  | 2621.7  | 2553.6  | 2263.9  |
| 17.5° | 2713.4 | 2722.5 | 2759.0 | 2820.7 | 2905.9 | 2992.8 | 3030.9 | 2953.7  | 2816.9  | 2739.1  | 2372.8  |
| 20°   | 2727.3 | 2734.3 | 2779.9 | 2852.3 | 2962.8 | 3101.2 | 3207.4 | 3188.1  | 3032.0  | 2931.2  | 2486.5  |
| 22.5° | 2758.4 | 2764.3 | 2807.8 | 2880.7 | 3003.0 | 3181.6 | 3377.4 | 3406.4  | 3258.9  | 3144.6  | 2608.3  |
| 25°   | 2845.3 | 2845.3 | 2881.8 | 2932.8 | 3047.5 | 3251.4 | 3521.1 | 3649.3  | 3490.6  | 3357.5  | 2720.9  |
| 27.5° | 3011.1 | 3009.5 | 3022.9 | 3040.6 | 3127.5 | 3322.1 | 3649.3 | 3863.9  | 3730.8  | 3585.5  | 2830.3  |
| 30°   | 3207.4 | 3218.1 | 3219.7 | 3211.1 | 3251.9 | 3410.6 | 3767.9 | 4090.2  | 3972.7  | 3816.1  | 2942.4  |
| 32.5° | 3460.0 | 3467.0 | 3458.9 | 3430.5 | 3424.6 | 3536.2 | 3884.2 | 4327.3  | 4234.5  | 4056.9  | 3044.9  |
| 35°   | 3780.7 | 3767.3 | 3742.1 | 3684.2 | 3628.9 | 3704.0 | 4017.3 | 4564.3  | 4528.4  | 4348.2  | 3185.9  |
| 37.5° | 4124.5 | 4125.1 | 4094.0 | 3962.6 | 3886.4 | 3918.6 | 4200.7 | 4833.0  | 4884.0  | 4694.7  | 3366.7  |
| 40°   | 4400.2 | 4414.7 | 4434.0 | 4261.3 | 4162.6 | 4207.1 | 4434.0 | 5144.7  | 5304.5  | 5105.5  | 3602.1  |
| 42.5° | 4592.8 | 4609.4 | 4664.1 | 4555.8 | 4453.3 | 4535.9 | 4708.6 | 5477.2  | 5776.5  | 5579.6  | 3877.8  |
| 45°   | 4796.6 | 4805.7 | 4844.3 | 4797.6 | 4732.2 | 4918.3 | 5018.1 | 5821.5  | 6275.8  | 6084.9  | 4186.2  |
| 47.5° | 5011.1 | 5020.8 | 5060.5 | 5029.4 | 4995.0 | 5275.5 | 5341.0 | 6146.0  | 6754.3  | 6640.0  | 4515.5  |
| 50°   | 5276.1 | 5282.5 | 5320.1 | 5263.7 | 5274.5 | 5544.8 | 5629.5 | 6443.7  | 7255.7  | 7138.8  | 4845.9  |
| 52.5° | 5637.6 | 5639.2 | 5691.2 | 5640.3 | 5589.8 | 5742.2 | 5877.9 | 6724.2  | 7648.9  | 7593.6  | 5176.3  |
| 55°   | 5920.8 | 5937.9 | 6108.5 | 6097.8 | 6068.8 | 5921.3 | 6085.4 | 6991.3  | 7999.7  | 8025.9  | 5527.1  |
| 57.5° | 5740.0 | 5807.1 | 6152.5 | 6396.0 | 6633.0 | 6367.0 | 6365.9 | 7292.2  | 8325.8  | 8450.2  | 5912.7  |
| 60°   | 5027.2 | 5118.4 | 5627.4 | 6167.5 | 6909.3 | 7142.6 | 6948.4 | 7659.6  | 8655.1  | 8870.7  | 6396.0  |
| 62.5° | 3590.3 | 3740.5 | 4430.2 | 5292.7 | 6530.6 | 7656.4 | 8133.7 | 8242.6  | 9102.9  | 9357.7  | 7024.0  |
| 65°   | 1815.0 | 1928.7 | 2506.9 | 3545.8 | 5217.6 | 7320.6 | 9422.1 | 9519.1  | 9881.2  | 10107.5 | 7991.1  |
| 67.5° | 1102.7 | 1145.6 | 1427.8 | 1972.2 | 3198.8 | 5702.5 | 9842.6 | 11646.8 | 11387.2 | 11507.4 | 9370.0  |
| 70°   | 812.6  | 844.2  | 1020.1 | 1309.8 | 1839.7 | 3346.3 | 8552.1 | 13165.2 | 12994.7 | 12981.3 | 10389.1 |
| 72°   | 632.9  | 656.0  | 811.5  | 1058.2 | 1345.2 | 2007.6 | 6198.6 | 12604.8 | 13454.9 | 13387.3 | 10295.8 |
| 72.5° | 600.2  | 620.6  | 762.2  | 996.0  | 1271.1 | 1819.8 | 5573.2 | 12226.6 | 13421.6 | 13391.0 | 10175.1 |
| 75°   | 472.5  | 487.0  | 564.2  | 770.2  | 994.9  | 1032.5 | 3054.0 | 9475.2  | 11906.4 | 12401.5 | 9151.7  |
| 77.5° | 391.0  | 393.1  | 433.9  | 560.5  | 775.6  | 730.0  | 1500.2 | 6574.0  | 8525.8  | 9070.2  | 6482.9  |
| 80°   | 318.6  | 321.3  | 340.6  | 393.1  | 586.8  | 540.1  | 712.3  | 3780.2  | 4773.5  | 4779.4  | 3082.9  |
| 82.5° | 253.7  | 254.2  | 275.7  | 287.5  | 421.6  | 386.2  | 408.2  | 1774.8  | 2085.9  | 2006.5  | 1108.1  |
| 85°   | 178.6  | 174.8  | 269.2  | 236.0  | 275.7  | 247.8  | 225.3  | 702.6   | 862.5   | 824.9   | 347.0   |
| 87.5° | 59.5   | 61.7   | 119.6  | 152.9  | 160.9  | 140.5  | 100.3  | 269.2   | 325.6   | 322.9   | 110.0   |
| 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: P318207

CATALOG NUMBER: GAN-SA3C-827-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 | 1916.4 |
| 2.5°  | 1926.0 | 1908.9 | 1883.7 | 1855.8 | 1833.8 | 1811.3 | 1794.6 | 1786.0 | 1776.4 | 1768.3 | 1778.0 |
| 5°    | 1946.4 | 1914.2 | 1860.6 | 1808.0 | 1769.4 | 1735.1 | 1710.4 | 1697.5 | 1685.7 | 1677.7 | 1678.8 |
| 7.5°  | 1979.7 | 1927.6 | 1837.5 | 1760.8 | 1707.2 | 1670.2 | 1645.0 | 1636.4 | 1628.9 | 1626.7 | 1629.4 |
| 10°   | 2015.1 | 1938.4 | 1807.0 | 1705.1 | 1643.9 | 1613.3 | 1602.1 | 1608.0 | 1613.3 | 1618.2 | 1623.5 |
| 12.5° | 2055.3 | 1948.0 | 1762.4 | 1639.6 | 1587.6 | 1575.8 | 1587.1 | 1612.8 | 1631.6 | 1642.8 | 1649.8 |
| 15°   | 2107.9 | 1956.6 | 1711.0 | 1574.2 | 1539.3 | 1552.7 | 1590.8 | 1635.3 | 1668.0 | 1689.0 | 1692.2 |
| 17.5° | 2156.1 | 1956.1 | 1645.0 | 1508.2 | 1500.2 | 1539.3 | 1596.7 | 1659.5 | 1703.4 | 1732.9 | 1738.8 |
| 20°   | 2206.0 | 1941.6 | 1568.3 | 1443.9 | 1460.5 | 1524.8 | 1599.4 | 1675.0 | 1728.1 | 1762.4 | 1770.5 |
| 22.5° | 2252.7 | 1916.4 | 1484.1 | 1385.4 | 1427.2 | 1505.5 | 1589.2 | 1665.9 | 1719.0 | 1746.9 | 1755.5 |
| 25°   | 2284.3 | 1872.4 | 1398.8 | 1336.0 | 1397.7 | 1481.9 | 1556.0 | 1617.6 | 1657.3 | 1671.3 | 1673.4 |
| 27.5° | 2300.4 | 1815.0 | 1318.3 | 1293.1 | 1367.2 | 1443.3 | 1494.3 | 1524.8 | 1536.1 | 1535.0 | 1532.9 |
| 30°   | 2302.5 | 1739.4 | 1249.2 | 1258.3 | 1331.8 | 1386.5 | 1410.6 | 1404.7 | 1390.2 | 1365.5 | 1367.7 |
| 32.5° | 2295.6 | 1654.1 | 1191.2 | 1225.0 | 1286.7 | 1317.3 | 1318.3 | 1289.9 | 1251.3 | 1212.2 | 1201.4 |
| 35°   | 2297.7 | 1570.4 | 1140.3 | 1187.5 | 1232.0 | 1245.4 | 1233.1 | 1191.2 | 1138.7 | 1088.3 | 1077.5 |
| 37.5° | 2321.3 | 1497.5 | 1096.3 | 1144.0 | 1171.4 | 1174.6 | 1156.9 | 1112.9 | 1074.3 | 1025.0 | 1020.7 |
| 40°   | 2377.6 | 1445.5 | 1054.5 | 1095.2 | 1110.8 | 1112.4 | 1087.2 | 1056.1 | 1059.3 | 1033.0 | 1032.5 |
| 42.5° | 2479.0 | 1422.9 | 1017.5 | 1044.3 | 1053.9 | 1057.1 | 1037.8 | 1018.0 | 1045.9 | 1028.7 | 1022.8 |
| 45°   | 2609.9 | 1428.3 | 986.3  | 994.4  | 1012.1 | 1027.1 | 1015.3 | 991.2  | 1001.9 | 927.3  | 902.7  |
| 47.5° | 2761.1 | 1462.6 | 961.7  | 951.5  | 982.1  | 1010.5 | 992.2  | 955.8  | 917.7  | 843.7  | 829.7  |
| 50°   | 2938.1 | 1515.7 | 939.1  | 909.1  | 949.3  | 988.0  | 969.7  | 917.7  | 860.3  | 824.4  | 819.5  |
| 52.5° | 3122.6 | 1580.6 | 916.6  | 862.5  | 908.0  | 970.8  | 961.7  | 909.1  | 838.3  | 802.9  | 796.5  |
| 55°   | 3331.8 | 1646.1 | 888.2  | 808.3  | 863.5  | 962.7  | 957.9  | 878.0  | 821.7  | 801.8  | 797.0  |
| 57.5° | 3591.9 | 1720.6 | 850.7  | 752.0  | 821.7  | 933.8  | 918.8  | 859.2  | 804.5  | 789.5  | 787.9  |
| 60°   | 3930.9 | 1830.6 | 796.5  | 691.9  | 770.7  | 889.3  | 886.0  | 831.9  | 777.2  | 766.4  | 764.3  |
| 62.5° | 4439.4 | 2012.4 | 721.9  | 631.8  | 713.9  | 813.6  | 843.1  | 794.9  | 748.2  | 747.7  | 748.7  |
| 65°   | 5227.8 | 2285.9 | 640.9  | 579.3  | 656.5  | 749.8  | 793.3  | 756.8  | 718.7  | 729.4  | 731.0  |
| 67.5° | 6141.7 | 2512.8 | 561.6  | 527.8  | 598.0  | 689.2  | 748.2  | 718.7  | 679.6  | 707.4  | 708.0  |
| 70°   | 6445.9 | 2310.1 | 491.8  | 476.8  | 537.4  | 630.7  | 699.4  | 676.9  | 637.2  | 665.1  | 662.4  |
| 72°   | 5998.5 | 1864.9 | 446.8  | 438.2  | 491.8  | 582.5  | 656.0  | 637.7  | 598.6  | 617.3  | 610.4  |
| 72.5° | 5857.5 | 1778.0 | 435.5  | 428.5  | 479.5  | 570.1  | 644.7  | 628.1  | 588.9  | 605.0  | 598.6  |
| 75°   | 5225.1 | 1544.2 | 374.4  | 376.0  | 418.4  | 510.1  | 581.4  | 576.0  | 535.8  | 537.4  | 535.3  |
| 77.5° | 3789.8 | 1132.2 | 315.4  | 326.1  | 356.1  | 448.4  | 517.6  | 514.4  | 470.4  | 462.3  | 460.7  |
| 80°   | 1758.7 | 577.6  | 256.9  | 261.7  | 292.8  | 374.9  | 441.4  | 437.1  | 401.7  | 391.5  | 385.6  |
| 82.5° | 602.3  | 274.6  | 193.1  | 196.3  | 226.9  | 302.0  | 383.0  | 380.3  | 350.8  | 330.9  | 318.6  |
| 85°   | 215.1  | 136.8  | 135.2  | 131.9  | 162.0  | 237.6  | 333.6  | 319.1  | 275.7  | 234.9  | 233.8  |
| 87.5° | 69.7   | 58.5   | 69.7   | 69.2   | 94.4   | 160.9  | 242.4  | 206.5  | 200.1  | 166.3  | 163.1  |
| 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)