

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: P323097

Luminaire Tested: **GAN-SA3D-722-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3D-722-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12621 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

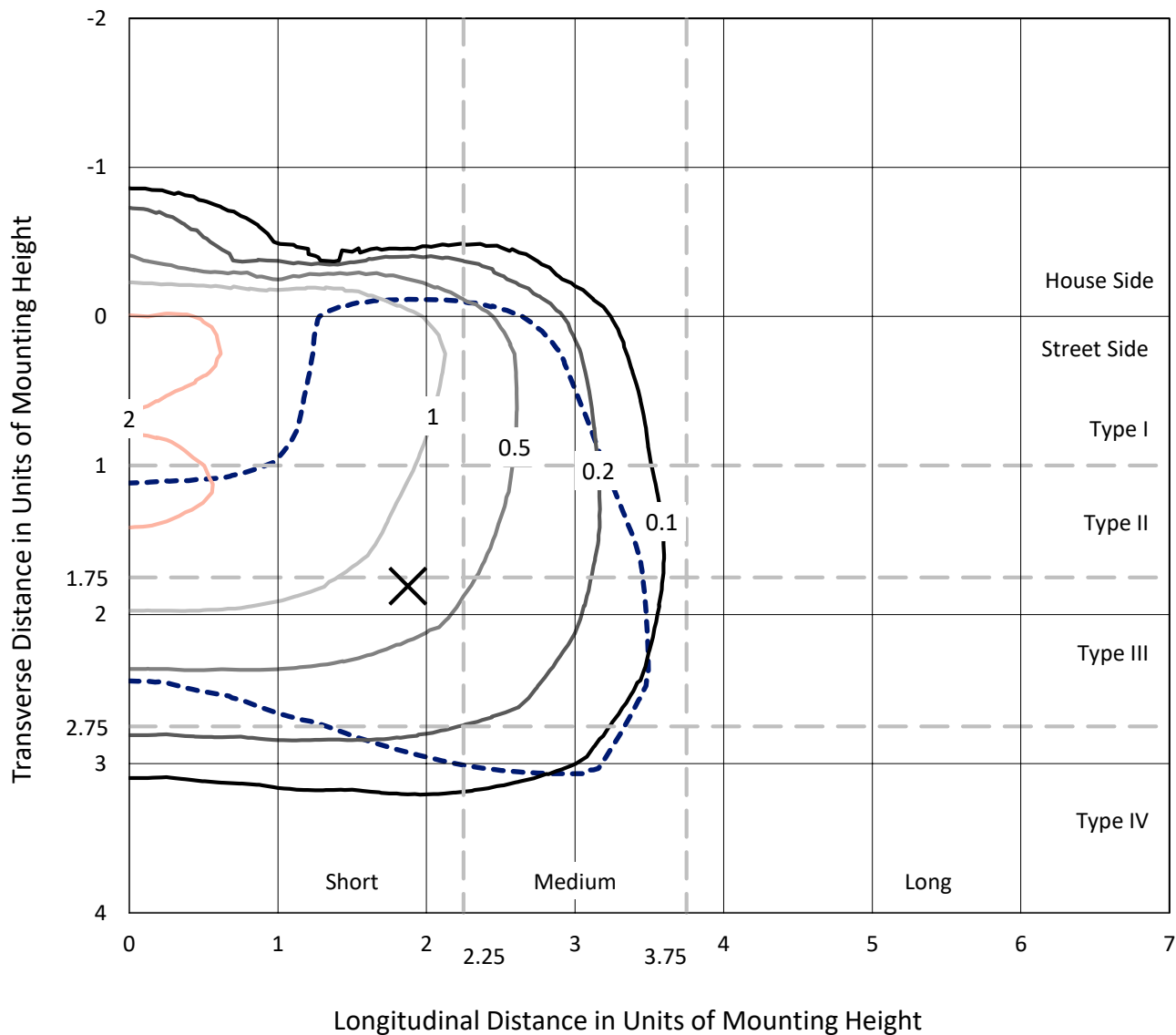
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323097  
 CATALOG NUMBER: GAN-SA3D-722-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

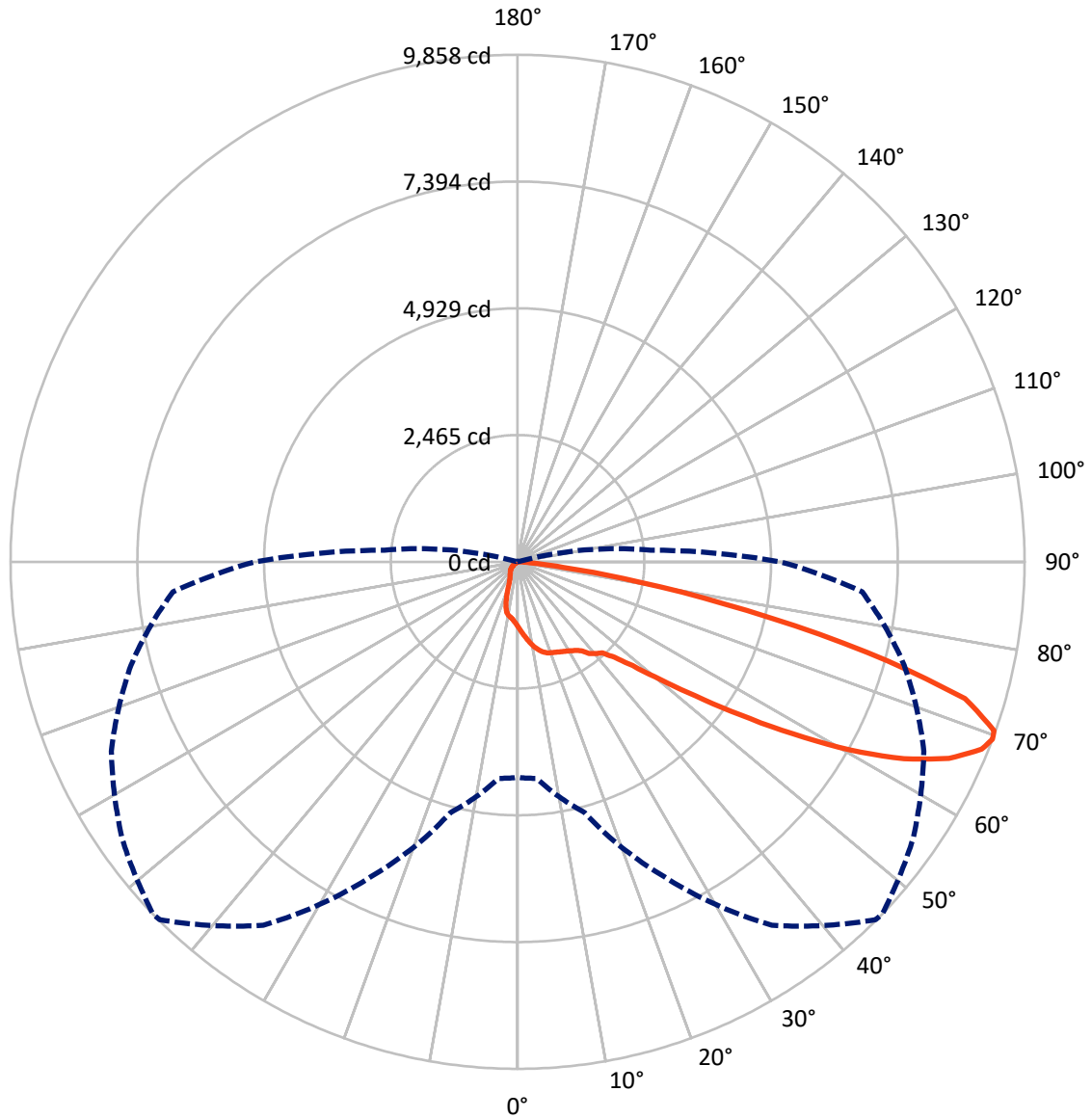
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P323097  
CATALOG NUMBER: GAN-SA3D-722-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P323097  
 CATALOG NUMBER: GAN-SA3D-722-U-T4W-HSS

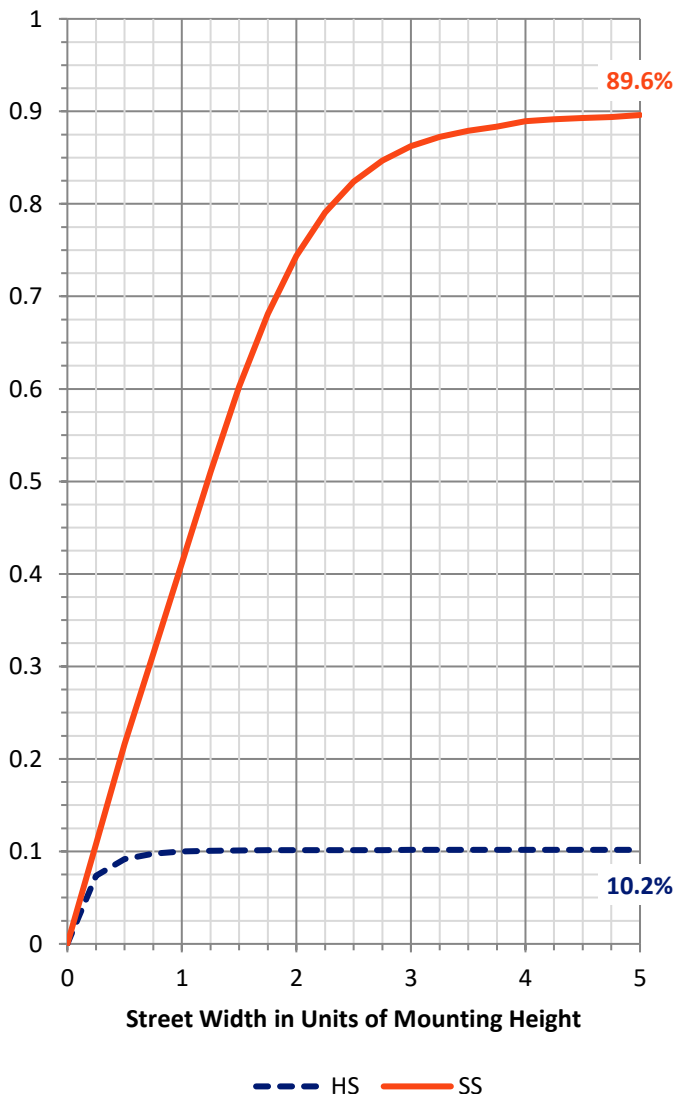
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1295.3   | 0.0    | 1295.3  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 11325.7  | 0.0    | 11325.7 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 12621.0  | 0.0    | 12621.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 125.9   | 1.0       |
| 10°-20°   | 381.9   | 3.0       |
| 20°-30°   | 600.5   | 4.8       |
| 30°-40°   | 861.2   | 6.8       |
| 40°-50°   | 1488.4  | 11.8      |
| 50°-60°   | 2940.5  | 23.3      |
| 60°-70°   | 4109.6  | 32.6      |
| 70°-80°   | 1985.4  | 15.7      |
| 80°-90°   | 127.6   | 1.0       |
| 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°    | 12621.0 | 100.0     |
| 0°-180°   | 12621.0 | 100.0     |

**Coefficient of Utilization**

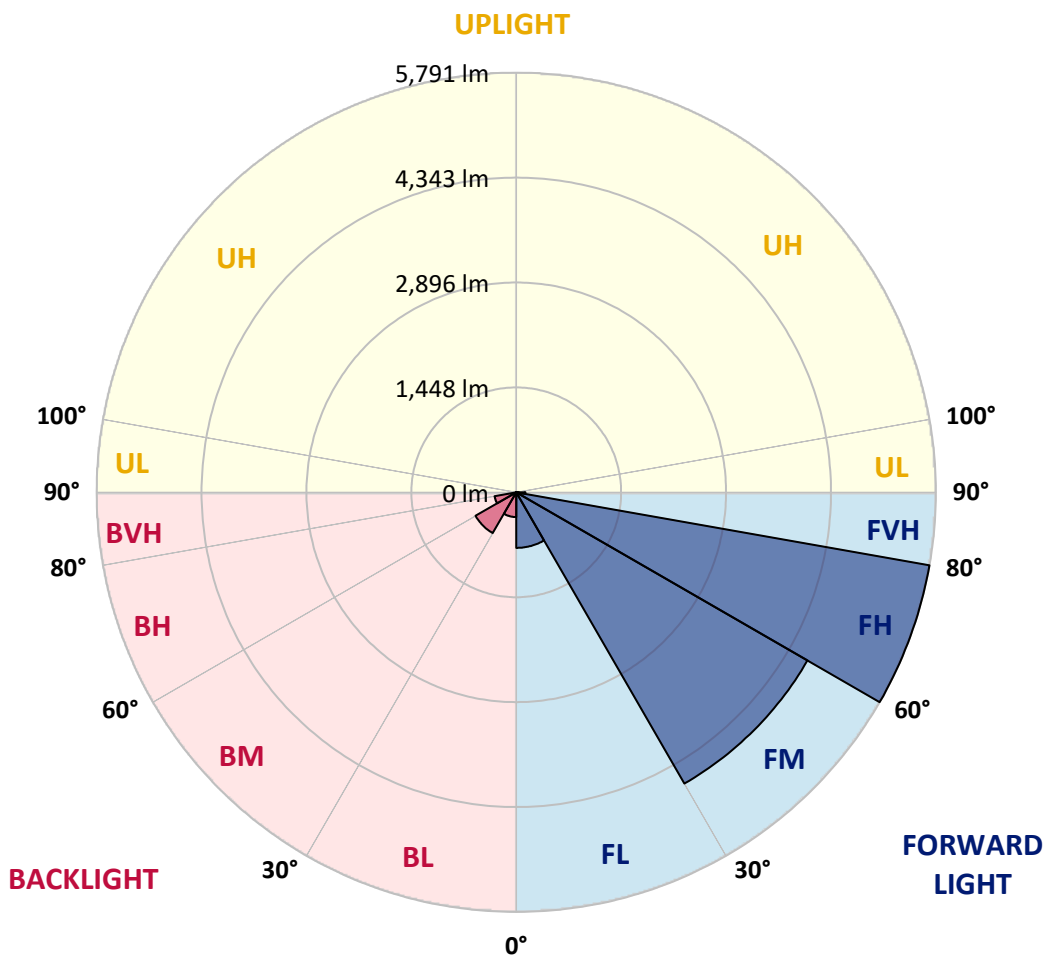


REPORT NUMBER: P323097  
 CATALOG NUMBER: GAN-SA3D-722-U-T4W-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 766.9  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4641.0 | 36.8      |                         |      |         |
| FH (60°-80°)   | 5791.3 | 45.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 126.5  | 1.0       |                         |      | G2/225  |
| BL (0°-30°)    | 341.4  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 649.1  | 5.1       | B1/1000                 |      |         |
| BH (60°-80°)   | 303.7  | 2.4       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.1    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**  
 Type IV Short





REPORT NUMBER: P323097

CATALOG NUMBER: GAN-SA3D-722-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 |
| 2.5°  | 1404.8 | 1403.0 | 1394.8 | 1391.2 | 1371.1 | 1359.3 | 1354.5 | 1339.7 | 1318.4 | 1297.1 | 1273.5 |
| 5°    | 1564.6 | 1564.0 | 1548.6 | 1533.8 | 1496.0 | 1460.4 | 1453.9 | 1419.6 | 1371.7 | 1326.7 | 1281.7 |
| 7.5°  | 1727.9 | 1720.2 | 1704.8 | 1676.4 | 1621.4 | 1564.6 | 1559.3 | 1510.7 | 1442.7 | 1377.6 | 1313.1 |
| 10°   | 1866.4 | 1861.7 | 1841.5 | 1798.3 | 1733.8 | 1669.3 | 1662.8 | 1603.1 | 1526.1 | 1446.2 | 1364.0 |
| 12.5° | 1974.1 | 1970.5 | 1943.9 | 1890.1 | 1821.4 | 1754.5 | 1745.7 | 1692.4 | 1610.2 | 1520.8 | 1423.8 |
| 15°   | 2039.8 | 2038.0 | 2005.5 | 1948.1 | 1880.6 | 1822.6 | 1814.9 | 1768.2 | 1691.8 | 1598.3 | 1488.9 |
| 17.5° | 2055.2 | 2055.8 | 2022.0 | 1964.0 | 1908.4 | 1867.0 | 1861.1 | 1825.6 | 1761.6 | 1668.7 | 1553.9 |
| 20°   | 2020.8 | 2027.9 | 1997.8 | 1947.5 | 1913.1 | 1891.2 | 1886.5 | 1865.2 | 1811.4 | 1723.8 | 1606.0 |
| 22.5° | 1972.3 | 1975.9 | 1955.2 | 1921.4 | 1907.2 | 1911.4 | 1909.0 | 1897.2 | 1851.6 | 1771.1 | 1657.5 |
| 25°   | 1942.7 | 1942.7 | 1930.3 | 1901.9 | 1911.4 | 1936.8 | 1937.4 | 1935.0 | 1898.9 | 1829.1 | 1720.2 |
| 27.5° | 1941.5 | 1938.0 | 1923.8 | 1902.5 | 1928.5 | 1967.6 | 1969.9 | 1985.9 | 1963.4 | 1899.5 | 1798.3 |
| 30°   | 1988.9 | 1984.7 | 1954.6 | 1926.7 | 1959.9 | 2001.9 | 2007.8 | 2042.7 | 2031.5 | 1975.9 | 1885.3 |
| 32.5° | 2099.5 | 2084.7 | 2017.9 | 1972.3 | 1997.2 | 2047.5 | 2055.2 | 2110.8 | 2128.5 | 2070.0 | 1969.4 |
| 35°   | 2251.0 | 2204.3 | 2107.8 | 2058.7 | 2061.1 | 2113.7 | 2120.8 | 2202.5 | 2255.2 | 2156.3 | 2034.4 |
| 37.5° | 2459.9 | 2436.8 | 2280.0 | 2148.7 | 2159.3 | 2239.2 | 2259.9 | 2348.7 | 2333.9 | 2203.7 | 2108.4 |
| 40°   | 2917.9 | 2881.8 | 2715.0 | 2400.7 | 2253.4 | 2341.0 | 2347.5 | 2394.8 | 2396.0 | 2310.8 | 2262.3 |
| 42.5° | 3541.6 | 3526.9 | 3351.1 | 2858.2 | 2438.6 | 2409.0 | 2420.9 | 2500.7 | 2590.1 | 2536.8 | 2534.5 |
| 45°   | 4232.2 | 4224.5 | 4038.1 | 3465.3 | 2813.2 | 2632.1 | 2646.9 | 2754.0 | 2925.0 | 2936.9 | 3012.0 |
| 47.5° | 4787.9 | 4784.3 | 4677.2 | 4142.9 | 3386.6 | 3010.2 | 3015.0 | 3128.6 | 3429.2 | 3577.7 | 3697.9 |
| 50°   | 5294.4 | 5311.6 | 5227.0 | 4876.0 | 4167.7 | 3602.6 | 3591.4 | 3667.1 | 4150.0 | 4393.2 | 4542.3 |
| 52.5° | 5998.6 | 6022.9 | 5785.6 | 5560.1 | 4987.3 | 4337.6 | 4328.7 | 4408.0 | 5016.3 | 5198.6 | 5225.2 |
| 55°   | 6620.5 | 6579.1 | 6391.5 | 6326.4 | 5986.8 | 5245.3 | 5242.9 | 5312.8 | 5854.2 | 5931.7 | 5980.9 |
| 57.5° | 6895.1 | 6879.1 | 6969.7 | 7118.8 | 7033.6 | 6318.2 | 6312.8 | 6259.6 | 6604.0 | 6612.3 | 6763.1 |
| 60°   | 7068.5 | 7088.0 | 7365.6 | 7825.3 | 8037.8 | 7472.7 | 7438.3 | 7113.5 | 7320.0 | 7301.6 | 7463.2 |
| 62.5° | 6938.3 | 6976.8 | 7476.2 | 8242.5 | 8789.3 | 8480.4 | 8431.9 | 7895.8 | 7931.9 | 7868.5 | 8018.9 |
| 65°   | 6247.1 | 6306.9 | 7125.3 | 8163.8 | 9162.1 | 9268.0 | 9218.9 | 8586.3 | 8417.7 | 8313.5 | 8230.1 |
| 67.5° | 5072.5 | 5108.0 | 5962.5 | 7479.2 | 8994.1 | 9737.9 | 9727.8 | 9191.7 | 8784.6 | 8238.4 | 7591.0 |
| 69°   | 4192.0 | 4226.9 | 5049.4 | 6758.4 | 8624.2 | 9838.5 | 9858.0 | 9385.8 | 8714.8 | 7781.6 | 6725.9 |
| 70°   | 3550.5 | 3587.8 | 4354.1 | 6140.6 | 8195.2 | 9791.7 | 9826.7 | 9367.5 | 8514.7 | 7252.5 | 5966.6 |
| 72.5° | 1862.2 | 1894.2 | 2680.6 | 4230.4 | 6680.9 | 8991.1 | 9097.0 | 8575.7 | 7217.6 | 5267.2 | 3528.0 |
| 75°   | 585.2  | 603.6  | 1046.8 | 2211.4 | 4574.3 | 6991.0 | 7015.2 | 6727.1 | 5125.2 | 2897.2 | 1469.3 |
| 77.5° | 223.1  | 217.8  | 348.5  | 814.8  | 2312.6 | 4402.1 | 4550.6 | 4203.8 | 2689.5 | 1024.3 | 339.1  |
| 80°   | 120.1  | 120.7  | 181.1  | 337.3  | 989.4  | 2262.3 | 2387.7 | 2037.4 | 955.7  | 319.5  | 78.1   |
| 82.5° | 52.1   | 54.4   | 101.8  | 178.7  | 454.5  | 834.4  | 897.1  | 746.8  | 365.1  | 214.8  | 29.0   |
| 85°   | 11.2   | 12.4   | 49.1   | 97.0   | 185.2  | 234.3  | 245.6  | 242.0  | 232.6  | 166.9  | 11.2   |
| 87.5° | 0.0    | 0.0    | 21.9   | 34.9   | 46.7   | 53.3   | 46.7   | 61.0   | 128.4  | 112.4  | 5.9    |
| 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: P323097

CATALOG NUMBER: GAN-SA3D-722-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 | 1264.6 |
| 2.5°  | 1265.8 | 1255.1 | 1236.8 | 1216.6 | 1202.4 | 1187.6 | 1175.8 | 1170.5 | 1164.6 | 1160.4 | 1165.8 |
| 5°    | 1263.4 | 1242.7 | 1207.2 | 1172.9 | 1148.0 | 1127.9 | 1111.3 | 1104.8 | 1098.3 | 1093.6 | 1093.0 |
| 7.5°  | 1284.1 | 1255.1 | 1200.7 | 1150.4 | 1111.9 | 1084.7 | 1062.2 | 1052.7 | 1045.0 | 1041.5 | 1038.5 |
| 10°   | 1323.8 | 1286.5 | 1213.7 | 1148.0 | 1098.3 | 1052.1 | 1003.6 | 966.3  | 942.1  | 930.8  | 926.7  |
| 12.5° | 1375.2 | 1328.5 | 1238.5 | 1160.4 | 1088.2 | 999.5  | 896.5  | 807.7  | 750.3  | 731.4  | 720.2  |
| 15°   | 1435.6 | 1377.6 | 1271.1 | 1176.4 | 1051.5 | 889.4  | 714.8  | 598.9  | 545.6  | 534.9  | 523.1  |
| 17.5° | 1493.6 | 1429.7 | 1310.1 | 1179.4 | 971.1  | 710.7  | 523.7  | 445.0  | 424.3  | 431.4  | 433.2  |
| 20°   | 1544.5 | 1481.2 | 1348.6 | 1153.3 | 824.9  | 533.2  | 405.4  | 385.8  | 393.5  | 407.1  | 409.5  |
| 22.5° | 1596.0 | 1530.9 | 1384.1 | 1084.7 | 637.9  | 404.8  | 365.1  | 369.8  | 377.5  | 391.1  | 393.5  |
| 25°   | 1658.7 | 1591.2 | 1417.2 | 958.6  | 478.7  | 344.4  | 346.8  | 353.9  | 361.6  | 374.0  | 375.2  |
| 27.5° | 1730.9 | 1667.6 | 1439.1 | 794.7  | 355.1  | 316.6  | 324.3  | 334.9  | 342.6  | 354.5  | 356.8  |
| 30°   | 1826.7 | 1768.2 | 1446.2 | 624.9  | 297.7  | 291.7  | 295.3  | 308.3  | 319.5  | 330.2  | 332.0  |
| 32.5° | 1916.7 | 1867.6 | 1422.6 | 471.6  | 275.8  | 268.7  | 268.7  | 276.3  | 289.4  | 299.4  | 301.8  |
| 35°   | 1999.5 | 1967.6 | 1346.8 | 345.0  | 259.2  | 247.4  | 241.4  | 241.4  | 249.7  | 258.0  | 260.4  |
| 37.5° | 2109.0 | 2107.8 | 1224.3 | 275.2  | 243.2  | 229.6  | 217.2  | 207.7  | 204.7  | 206.5  | 207.7  |
| 40°   | 2296.6 | 2298.4 | 1064.6 | 246.8  | 229.6  | 211.3  | 192.3  | 175.2  | 159.2  | 153.9  | 153.3  |
| 42.5° | 2589.5 | 2562.9 | 897.1  | 233.2  | 217.8  | 192.3  | 163.9  | 140.8  | 116.0  | 108.3  | 107.7  |
| 45°   | 3054.6 | 2896.6 | 719.6  | 220.7  | 205.3  | 171.0  | 135.5  | 104.1  | 84.0   | 78.1   | 78.1   |
| 47.5° | 3732.2 | 3335.1 | 557.4  | 207.1  | 188.8  | 146.8  | 102.4  | 75.2   | 61.5   | 58.6   | 59.2   |
| 50°   | 4432.8 | 3764.7 | 427.2  | 190.0  | 168.6  | 121.3  | 75.7   | 54.4   | 46.7   | 46.7   | 47.3   |
| 52.5° | 5054.2 | 4079.5 | 333.2  | 171.6  | 143.8  | 95.3   | 57.4   | 42.6   | 39.1   | 38.5   | 39.1   |
| 55°   | 5635.9 | 4282.5 | 255.0  | 150.3  | 114.2  | 71.0   | 43.8   | 34.9   | 32.5   | 31.4   | 30.8   |
| 57.5° | 6196.8 | 4383.1 | 191.1  | 121.3  | 82.8   | 51.5   | 34.9   | 29.6   | 27.2   | 25.4   | 24.9   |
| 60°   | 6570.2 | 4301.5 | 131.4  | 89.4   | 57.4   | 37.3   | 29.0   | 25.4   | 22.5   | 20.7   | 20.1   |
| 62.5° | 6780.9 | 4078.4 | 84.6   | 64.5   | 40.8   | 27.8   | 23.1   | 21.3   | 17.2   | 15.4   | 15.4   |
| 65°   | 6695.7 | 3710.3 | 59.2   | 46.2   | 29.6   | 20.7   | 17.2   | 17.2   | 12.4   | 10.1   | 9.5    |
| 67.5° | 5933.5 | 3134.5 | 45.0   | 34.3   | 21.3   | 15.4   | 13.0   | 14.8   | 7.7    | 4.7    | 4.7    |
| 69°   | 5105.1 | 2597.8 | 38.5   | 28.4   | 17.8   | 12.4   | 11.2   | 13.6   | 5.3    | 3.6    | 3.0    |
| 70°   | 4437.0 | 2241.0 | 34.9   | 24.9   | 14.8   | 10.7   | 10.1   | 13.0   | 5.3    | 3.0    | 2.4    |
| 72.5° | 2654.6 | 1249.8 | 26.6   | 17.8   | 9.5    | 8.3    | 8.3    | 14.8   | 5.3    | 3.0    | 2.4    |
| 75°   | 1072.8 | 440.3  | 19.5   | 12.4   | 7.1    | 7.1    | 10.1   | 18.9   | 4.7    | 2.4    | 1.8    |
| 77.5° | 243.2  | 96.5   | 11.2   | 7.7    | 4.7    | 7.1    | 11.8   | 14.8   | 3.0    | 1.2    | 0.0    |
| 80°   | 59.2   | 23.7   | 7.1    | 4.7    | 3.0    | 5.3    | 8.9    | 8.3    | 0.6    | 0.0    | 0.0    |
| 82.5° | 19.5   | 8.3    | 3.0    | 2.4    | 0.6    | 1.8    | 4.1    | 2.4    | 0.0    | 0.0    | 0.0    |
| 85°   | 8.3    | 4.7    | 1.2    | 0.6    | 0.0    | 0.0    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.3    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)