

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: P322957

Luminaire Tested: **GAN-SA3B-760-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322957  
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-SA3B-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 800mA 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: 12644 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

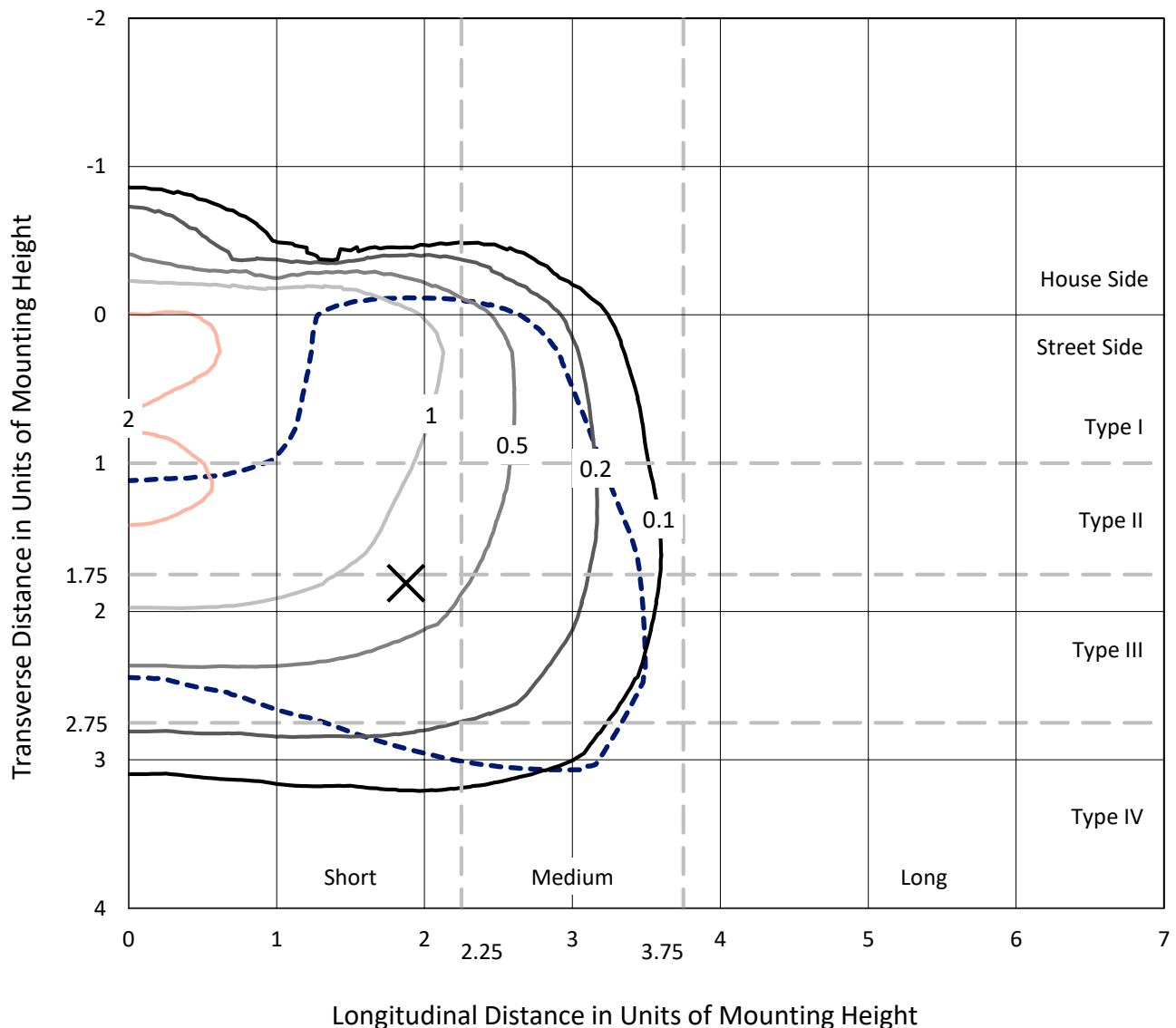
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P322957  
 CATALOG NUMBER: GAN-SA3B-760-U-T4W-HSS

## Iso-Footcandle Lines of Horizontal Illumination

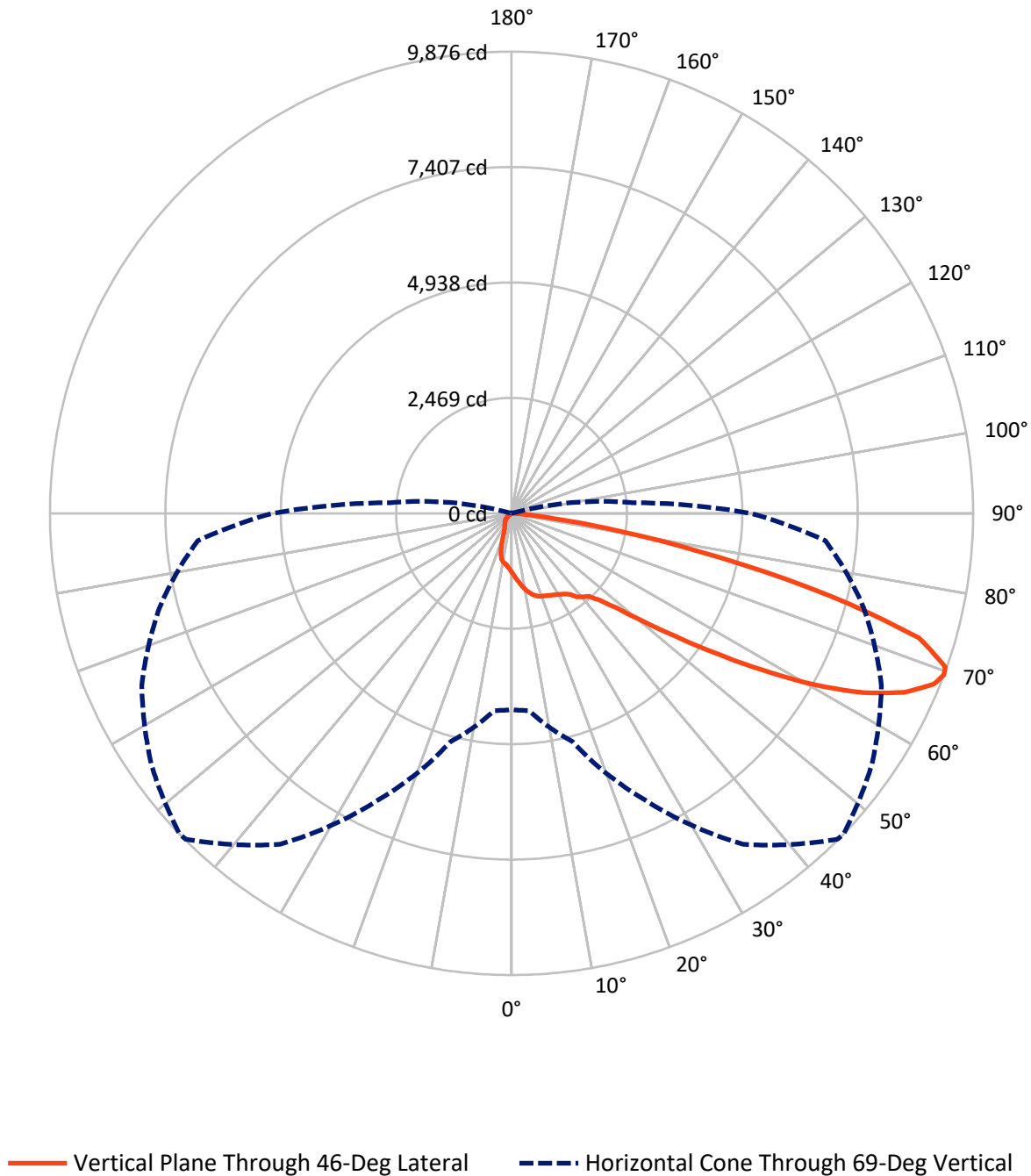
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P322957  
CATALOG NUMBER: GAN-SA3B-760-U-T4W-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P322957

CATALOG NUMBER: GAN-SA3B-760-U-T4W-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1297.6   | 0.0    | 1297.6  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 11346.4  | 0.0    | 11346.4 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 12644.0  | 0.0    | 12644.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 126.1   | 1.0       |
| 10°-20°   | 382.6   | 3.0       |
| 20°-30°   | 601.6   | 4.8       |
| 30°-40°   | 862.7   | 6.8       |
| 40°-50°   | 1491.1  | 11.8      |
| 50°-60°   | 2945.9  | 23.3      |
| 60°-70°   | 4117.1  | 32.6      |
| 70°-80°   | 1989.0  | 15.7      |
| 80°-90°   | 127.8   | 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°    | 12644.0 | 100.0     |
| 0°-180°   | 12644.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P322957

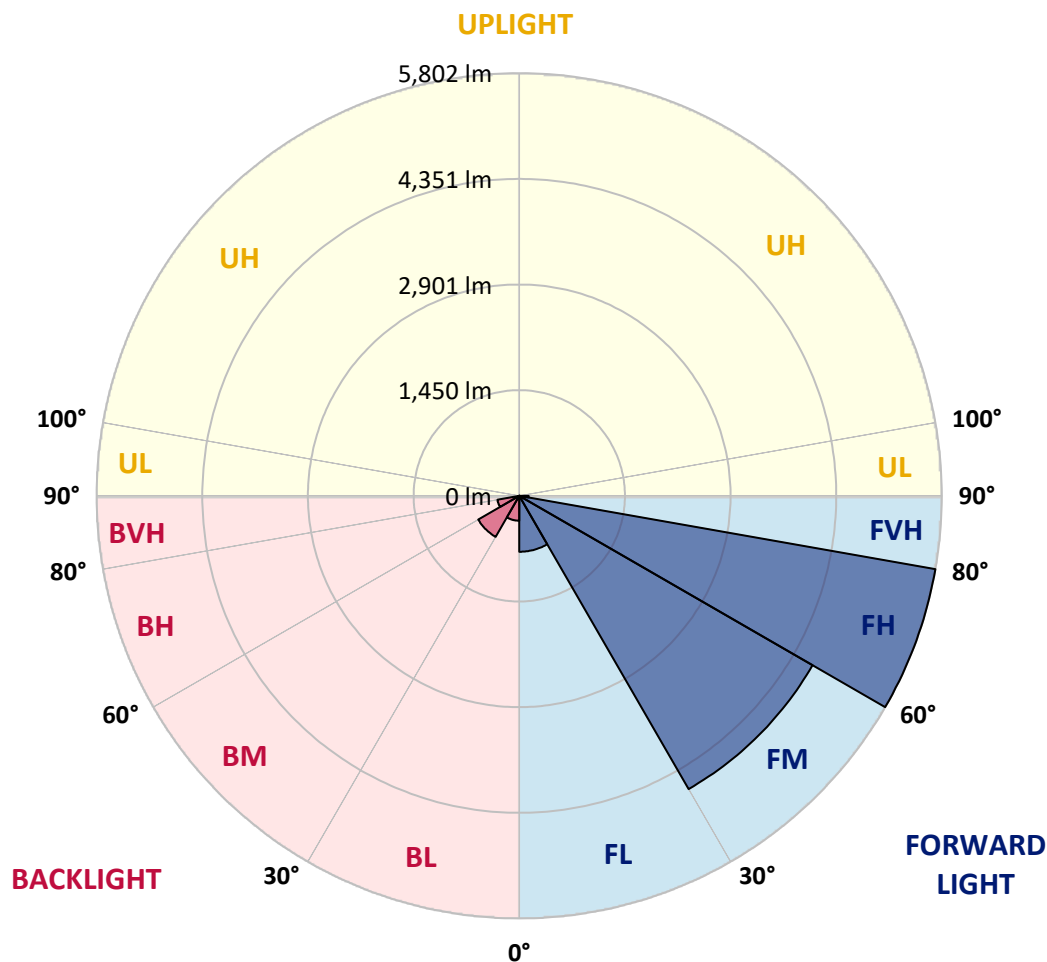
CATALOG NUMBER: GAN-SA3B-760-U-T4W-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 768.3  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 4649.5 | 36.8      |                         |      |         |
| FH   | (60°-80°)   | 5801.9 | 45.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 126.8  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 342.0  | 2.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 650.3  | 5.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 304.3  | 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: P322957

CATALOG NUMBER: GAN-SA3B-760-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 |
| 2.5°  | 1407.4 | 1405.6 | 1397.3 | 1393.7 | 1373.6 | 1361.7 | 1357.0 | 1342.2 | 1320.8 | 1299.5 | 1275.8 |
| 5°    | 1567.4 | 1566.9 | 1551.4 | 1536.6 | 1498.7 | 1463.1 | 1456.6 | 1422.2 | 1374.2 | 1329.1 | 1284.1 |
| 7.5°  | 1731.1 | 1723.4 | 1707.9 | 1679.5 | 1624.4 | 1567.4 | 1562.1 | 1513.5 | 1445.3 | 1380.1 | 1315.5 |
| 10°   | 1869.8 | 1865.0 | 1844.9 | 1801.6 | 1737.0 | 1672.4 | 1665.9 | 1606.0 | 1528.9 | 1448.9 | 1366.5 |
| 12.5° | 1977.7 | 1974.1 | 1947.5 | 1893.5 | 1824.7 | 1757.7 | 1748.9 | 1695.5 | 1613.1 | 1523.6 | 1426.4 |
| 15°   | 2043.5 | 2041.7 | 2009.1 | 1951.6 | 1884.0 | 1825.9 | 1818.2 | 1771.4 | 1694.9 | 1601.2 | 1491.6 |
| 17.5° | 2058.9 | 2059.5 | 2025.7 | 1967.6 | 1911.9 | 1870.4 | 1864.5 | 1828.9 | 1764.9 | 1671.8 | 1556.8 |
| 20°   | 2024.5 | 2031.6 | 2001.4 | 1951.0 | 1916.6 | 1894.7 | 1889.9 | 1868.6 | 1814.7 | 1726.9 | 1608.9 |
| 22.5° | 1975.9 | 1979.5 | 1958.7 | 1924.9 | 1910.7 | 1914.8 | 1912.5 | 1900.6 | 1855.0 | 1774.3 | 1660.5 |
| 25°   | 1946.3 | 1946.3 | 1933.8 | 1905.4 | 1914.8 | 1940.3 | 1940.9 | 1938.6 | 1902.4 | 1832.4 | 1723.4 |
| 27.5° | 1945.1 | 1941.5 | 1927.3 | 1906.0 | 1932.0 | 1971.2 | 1973.5 | 1989.5 | 1967.0 | 1903.0 | 1801.6 |
| 30°   | 1992.5 | 1988.4 | 1958.1 | 1930.3 | 1963.5 | 2005.5 | 2011.5 | 2046.5 | 2035.2 | 1979.5 | 1888.8 |
| 32.5° | 2103.4 | 2088.5 | 2021.6 | 1975.9 | 2000.8 | 2051.2 | 2058.9 | 2114.6 | 2132.4 | 2073.7 | 1972.9 |
| 35°   | 2255.1 | 2208.3 | 2111.7 | 2062.5 | 2064.8 | 2117.6 | 2124.7 | 2206.5 | 2259.3 | 2160.3 | 2038.2 |
| 37.5° | 2464.4 | 2441.3 | 2284.2 | 2152.6 | 2163.2 | 2243.3 | 2264.0 | 2352.9 | 2338.1 | 2207.7 | 2112.3 |
| 40°   | 2923.3 | 2887.1 | 2719.9 | 2405.1 | 2257.5 | 2345.2 | 2351.8 | 2399.2 | 2400.4 | 2315.0 | 2266.4 |
| 42.5° | 3548.1 | 3533.3 | 3357.2 | 2863.4 | 2443.1 | 2413.4 | 2425.3 | 2505.3 | 2594.8 | 2541.5 | 2539.1 |
| 45°   | 4239.9 | 4232.2 | 4045.5 | 3471.6 | 2818.3 | 2636.9 | 2651.7 | 2759.0 | 2930.4 | 2942.2 | 3017.5 |
| 47.5° | 4796.6 | 4793.0 | 4685.7 | 4150.4 | 3392.8 | 3015.7 | 3020.5 | 3134.3 | 3435.5 | 3584.3 | 3704.6 |
| 50°   | 5304.1 | 5321.3 | 5236.5 | 4884.9 | 4175.3 | 3609.2 | 3597.9 | 3673.8 | 4157.5 | 4401.2 | 4550.6 |
| 52.5° | 6009.5 | 6033.8 | 5796.1 | 5570.2 | 4996.4 | 4345.5 | 4336.6 | 4416.0 | 5025.4 | 5208.0 | 5234.7 |
| 55°   | 6632.6 | 6591.1 | 6403.2 | 6338.0 | 5997.7 | 5254.9 | 5252.5 | 5322.4 | 5864.9 | 5942.5 | 5991.8 |
| 57.5° | 6907.7 | 6891.7 | 6982.4 | 7131.8 | 7046.4 | 6329.7 | 6324.3 | 6271.0 | 6616.0 | 6624.3 | 6775.5 |
| 60°   | 7081.4 | 7100.9 | 7379.0 | 7839.6 | 8052.4 | 7486.3 | 7451.9 | 7126.4 | 7333.3 | 7315.0 | 7476.8 |
| 62.5° | 6951.0 | 6989.5 | 7489.8 | 8257.6 | 8805.3 | 8495.9 | 8447.3 | 7910.2 | 7946.3 | 7882.9 | 8033.5 |
| 65°   | 6258.5 | 6318.4 | 7138.3 | 8178.7 | 9178.8 | 9284.9 | 9235.7 | 8602.0 | 8433.0 | 8328.7 | 8245.1 |
| 67.5° | 5081.8 | 5117.3 | 5973.4 | 7492.8 | 9010.5 | 9755.6 | 9745.6 | 9208.5 | 8800.6 | 8253.4 | 7604.8 |
| 69°   | 4199.6 | 4234.6 | 5058.6 | 6770.7 | 8639.9 | 9856.4 | 9876.0 | 9402.9 | 8730.6 | 7795.7 | 6738.1 |
| 70°   | 3557.0 | 3594.3 | 4362.1 | 6151.8 | 8210.1 | 9809.6 | 9844.6 | 9384.5 | 8530.3 | 7265.7 | 5977.5 |
| 72.5° | 1865.6 | 1897.7 | 2685.5 | 4238.2 | 6693.1 | 9007.5 | 9113.6 | 8591.3 | 7230.8 | 5276.8 | 3534.5 |
| 75°   | 586.3  | 604.7  | 1048.7 | 2215.4 | 4582.6 | 7003.7 | 7028.0 | 6739.3 | 5134.5 | 2902.5 | 1472.0 |
| 77.5° | 223.5  | 218.2  | 349.2  | 816.3  | 2316.8 | 4410.1 | 4558.9 | 4211.5 | 2694.4 | 1026.2 | 339.7  |
| 80°   | 120.3  | 120.9  | 181.4  | 337.9  | 991.2  | 2266.4 | 2392.1 | 2041.1 | 957.4  | 320.1  | 78.3   |
| 82.5° | 52.2   | 54.5   | 102.0  | 179.0  | 455.3  | 835.9  | 898.7  | 748.2  | 365.8  | 215.2  | 29.0   |
| 85°   | 11.3   | 12.4   | 49.2   | 97.2   | 185.6  | 234.8  | 246.0  | 242.5  | 233.0  | 167.2  | 11.3   |
| 87.5° | 0.0    | 0.0    | 21.9   | 35.0   | 46.8   | 53.4   | 46.8   | 61.1   | 128.6  | 112.6  | 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: P322957

CATALOG NUMBER: GAN-SA3B-760-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 |
| 2.5°  | 1268.1 | 1257.4 | 1239.0 | 1218.9 | 1204.6 | 1189.8 | 1178.0 | 1172.6 | 1166.7 | 1162.5 | 1167.9 |
| 5°    | 1265.7 | 1244.9 | 1209.4 | 1175.0 | 1150.1 | 1129.9 | 1113.3 | 1106.8 | 1100.3 | 1095.6 | 1095.0 |
| 7.5°  | 1286.4 | 1257.4 | 1202.9 | 1152.5 | 1113.9 | 1086.7 | 1064.1 | 1054.6 | 1046.9 | 1043.4 | 1040.4 |
| 10°   | 1326.2 | 1288.8 | 1215.9 | 1150.1 | 1100.3 | 1054.1 | 1005.4 | 968.1  | 943.8  | 932.5  | 928.4  |
| 12.5° | 1377.7 | 1330.9 | 1240.8 | 1162.5 | 1090.2 | 1001.3 | 898.1  | 809.2  | 751.7  | 732.7  | 721.5  |
| 15°   | 1438.2 | 1380.1 | 1273.4 | 1178.5 | 1053.5 | 891.0  | 716.1  | 599.9  | 546.6  | 535.9  | 524.1  |
| 17.5° | 1496.3 | 1432.3 | 1312.5 | 1181.5 | 972.8  | 712.0  | 524.7  | 445.8  | 425.1  | 432.2  | 434.0  |
| 20°   | 1547.3 | 1483.9 | 1351.1 | 1155.4 | 826.4  | 534.1  | 406.1  | 386.5  | 394.2  | 407.9  | 410.2  |
| 22.5° | 1598.9 | 1533.7 | 1386.6 | 1086.7 | 639.1  | 405.5  | 365.8  | 370.5  | 378.2  | 391.9  | 394.2  |
| 25°   | 1661.7 | 1594.1 | 1419.8 | 960.4  | 479.6  | 345.0  | 347.4  | 354.5  | 362.2  | 374.7  | 375.9  |
| 27.5° | 1734.0 | 1670.6 | 1441.8 | 796.2  | 355.7  | 317.2  | 324.9  | 335.5  | 343.2  | 355.1  | 357.5  |
| 30°   | 1830.1 | 1771.4 | 1448.9 | 626.0  | 298.2  | 292.3  | 295.8  | 308.9  | 320.1  | 330.8  | 332.6  |
| 32.5° | 1920.2 | 1871.0 | 1425.2 | 472.5  | 276.3  | 269.1  | 269.1  | 276.9  | 289.9  | 300.0  | 302.3  |
| 35°   | 2003.2 | 1971.2 | 1349.3 | 345.6  | 259.7  | 247.8  | 241.9  | 241.9  | 250.2  | 258.5  | 260.8  |
| 37.5° | 2112.9 | 2111.7 | 1226.6 | 275.7  | 243.7  | 230.0  | 217.6  | 208.1  | 205.1  | 206.9  | 208.1  |
| 40°   | 2300.8 | 2302.6 | 1066.5 | 247.2  | 230.0  | 211.6  | 192.7  | 175.5  | 159.5  | 154.1  | 153.5  |
| 42.5° | 2594.2 | 2567.6 | 898.7  | 233.6  | 218.2  | 192.7  | 164.2  | 141.1  | 116.2  | 108.5  | 107.9  |
| 45°   | 3060.2 | 2901.9 | 720.9  | 221.1  | 205.7  | 171.3  | 135.8  | 104.3  | 84.2   | 78.3   | 78.3   |
| 47.5° | 3739.0 | 3341.2 | 558.4  | 207.5  | 189.1  | 147.0  | 102.6  | 75.3   | 61.7   | 58.7   | 59.3   |
| 50°   | 4440.9 | 3771.6 | 428.0  | 190.3  | 169.0  | 121.5  | 75.9   | 54.5   | 46.8   | 46.8   | 47.4   |
| 52.5° | 5063.4 | 4087.0 | 333.8  | 171.9  | 144.1  | 95.4   | 57.5   | 42.7   | 39.1   | 38.5   | 39.1   |
| 55°   | 5646.1 | 4290.3 | 255.5  | 150.6  | 114.4  | 71.1   | 43.9   | 35.0   | 32.6   | 31.4   | 30.8   |
| 57.5° | 6208.1 | 4391.1 | 191.5  | 121.5  | 83.0   | 51.6   | 35.0   | 29.6   | 27.3   | 25.5   | 24.9   |
| 60°   | 6582.2 | 4309.3 | 131.6  | 89.5   | 57.5   | 37.3   | 29.0   | 25.5   | 22.5   | 20.7   | 20.2   |
| 62.5° | 6793.3 | 4085.8 | 84.8   | 64.6   | 40.9   | 27.9   | 23.1   | 21.3   | 17.2   | 15.4   | 15.4   |
| 65°   | 6707.9 | 3717.1 | 59.3   | 46.2   | 29.6   | 20.7   | 17.2   | 17.2   | 12.4   | 10.1   | 9.5    |
| 67.5° | 5944.3 | 3140.2 | 45.1   | 34.4   | 21.3   | 15.4   | 13.0   | 14.8   | 7.7    | 4.7    | 4.7    |
| 69°   | 5114.4 | 2602.5 | 38.5   | 28.5   | 17.8   | 12.4   | 11.3   | 13.6   | 5.3    | 3.6    | 3.0    |
| 70°   | 4445.1 | 2245.1 | 35.0   | 24.9   | 14.8   | 10.7   | 10.1   | 13.0   | 5.3    | 3.0    | 2.4    |
| 72.5° | 2659.4 | 1252.1 | 26.7   | 17.8   | 9.5    | 8.3    | 8.3    | 14.8   | 5.3    | 3.0    | 2.4    |
| 75°   | 1074.8 | 441.1  | 19.6   | 12.4   | 7.1    | 7.1    | 10.1   | 19.0   | 4.7    | 2.4    | 1.8    |
| 77.5° | 243.7  | 96.6   | 11.3   | 7.7    | 4.7    | 7.1    | 11.9   | 14.8   | 3.0    | 1.2    | 0.0    |
| 80°   | 59.3   | 23.7   | 7.1    | 4.7    | 3.0    | 5.3    | 8.9    | 8.3    | 0.6    | 0.0    | 0.0    |
| 82.5° | 19.6   | 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)