

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: P321997

Luminaire Tested: **GAN-SA3B-760-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3B-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12411 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

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

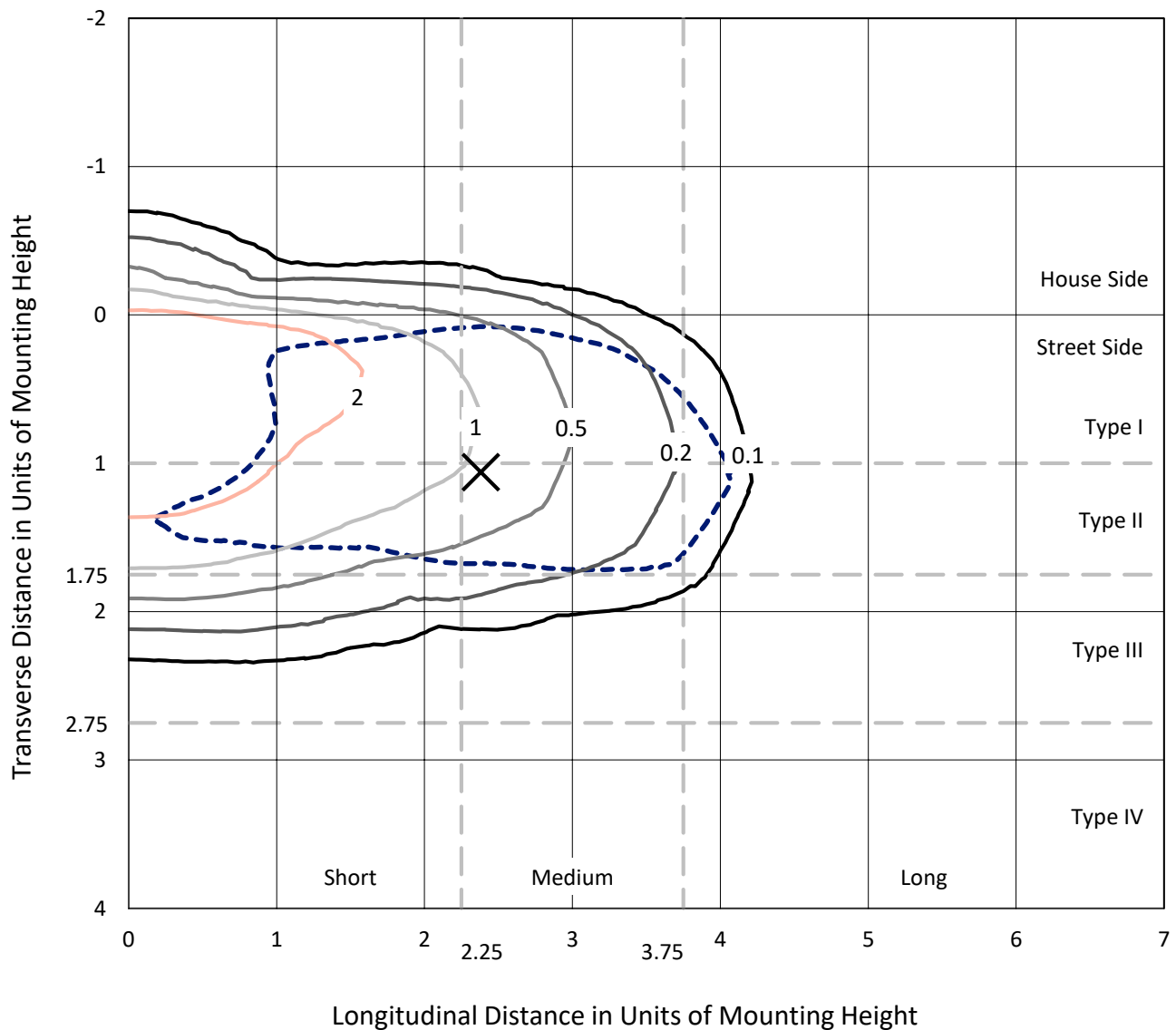


REPORT NUMBER: P321997

CATALOG NUMBER: GAN-SA3B-760-U-T2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

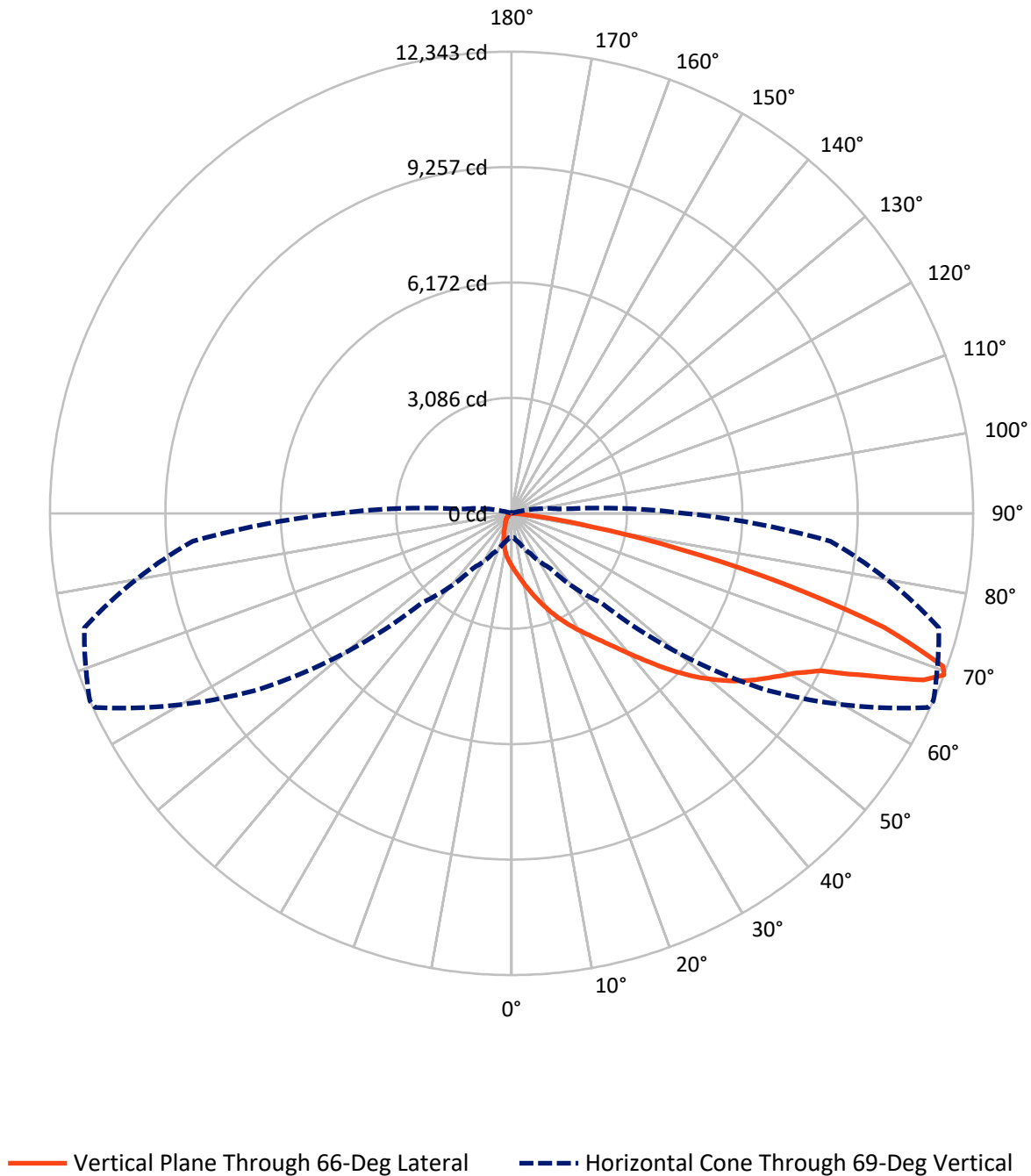
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P321997  
CATALOG NUMBER: GAN-SA3B-760-U-T2-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P321997

CATALOG NUMBER: GAN-SA3B-760-U-T2-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 744.5    | 0.0    | 744.5   |
|                    | % Fixture | 6.0      | 0.0    | 6.0     |
| <b>Street Side</b> | Lumens    | 11666.5  | 0.0    | 11666.5 |
|                    | % Fixture | 94.0     | 0.0    | 94.0    |
| <b>Total</b>       | Lumens    | 12411.0  | 0.0    | 12411.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 136.5   | 1.1       |
| 10°-20°   | 406.3   | 3.3       |
| 20°-30°   | 707.6   | 5.7       |
| 30°-40°   | 1241.4  | 10.0      |
| 40°-50°   | 2078.0  | 16.7      |
| 50°-60°   | 3054.4  | 24.6      |
| 60°-70°   | 3136.1  | 25.3      |
| 70°-80°   | 1548.2  | 12.5      |
| 80°-90°   | 102.4   | 0.8       |
| 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°    | 12411.0 | 100.0     |
| 0°-180°   | 12411.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P321997

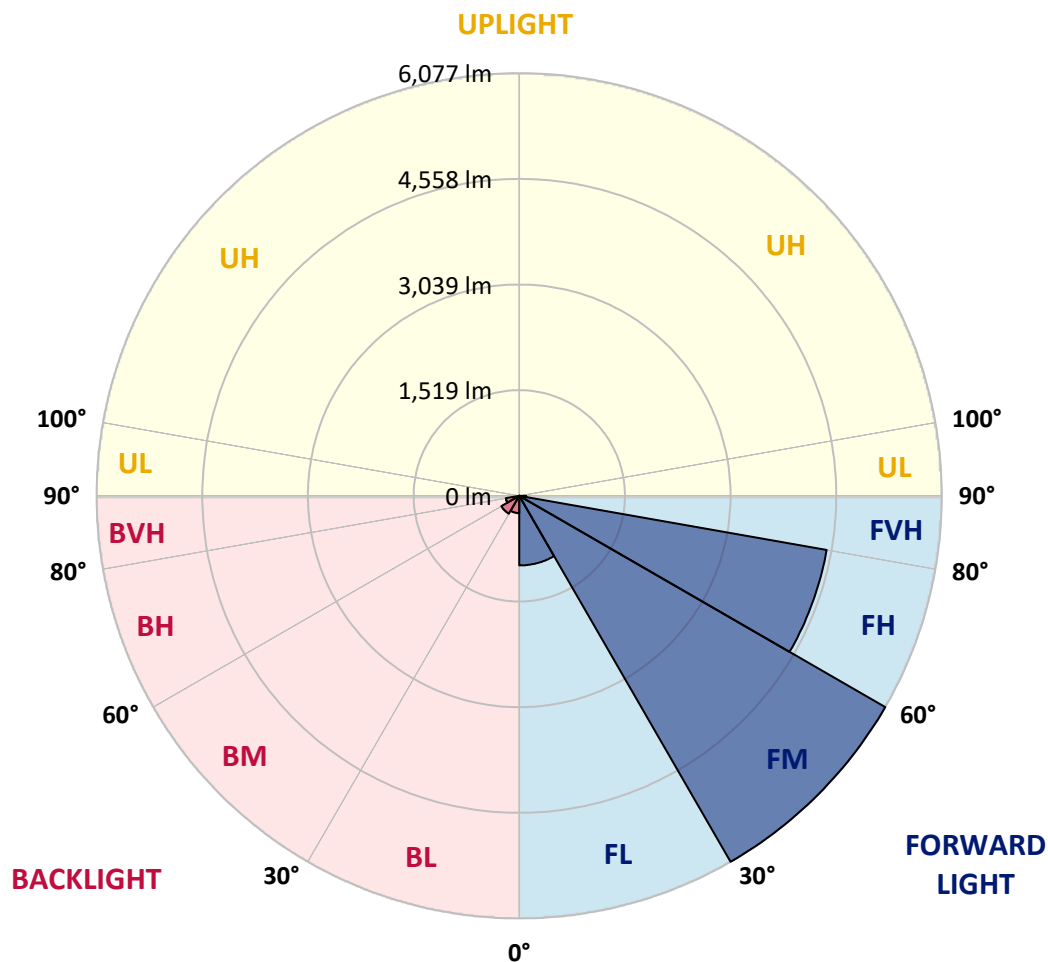
CATALOG NUMBER: GAN-SA3B-760-U-T2-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1001.4 | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 6077.0 | 49.0      |                         |      |         |
| FH   | (60°-80°)   | 4488.1 | 36.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 99.9   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 249.0  | 2.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 296.8  | 2.4       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 196.2  | 1.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.5    | 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-G2**

Type II Medium





REPORT NUMBER: P321997

CATALOG NUMBER: GAN-SA3B-760-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 66°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0°    | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4  | 1412.4  | 1412.4  | 1412.4 |
| 2.5°  | 1662.4 | 1655.3 | 1652.3 | 1639.4 | 1617.0 | 1599.9 | 1566.9 | 1528.5  | 1521.5  | 1484.3  | 1438.9 |
| 5°    | 1878.1 | 1872.2 | 1868.1 | 1849.8 | 1826.8 | 1783.8 | 1723.7 | 1652.3  | 1638.8  | 1568.0  | 1477.3 |
| 7.5°  | 2028.4 | 2039.0 | 2039.0 | 2027.2 | 1998.4 | 1965.9 | 1892.3 | 1795.0  | 1777.9  | 1669.4  | 1528.5 |
| 10°   | 2116.3 | 2129.2 | 2139.2 | 2149.3 | 2145.1 | 2132.2 | 2062.6 | 1953.0  | 1932.3  | 1788.5  | 1588.1 |
| 12.5° | 2124.5 | 2137.5 | 2165.8 | 2207.6 | 2248.3 | 2277.8 | 2234.2 | 2128.0  | 2104.5  | 1926.4  | 1658.8 |
| 15°   | 2078.5 | 2092.1 | 2135.7 | 2217.1 | 2315.5 | 2401.6 | 2415.7 | 2322.0  | 2297.8  | 2090.9  | 1747.2 |
| 17.5° | 1998.4 | 2007.2 | 2069.7 | 2182.3 | 2336.7 | 2494.7 | 2580.2 | 2530.1  | 2507.7  | 2279.0  | 1845.7 |
| 20°   | 1938.8 | 1945.3 | 2000.1 | 2121.0 | 2323.8 | 2553.1 | 2735.8 | 2751.1  | 2727.6  | 2480.6  | 1952.4 |
| 22.5° | 2040.8 | 2052.6 | 2054.4 | 2111.5 | 2288.4 | 2582.0 | 2872.6 | 2968.7  | 2951.0  | 2694.5  | 2057.3 |
| 25°   | 2319.6 | 2333.2 | 2288.4 | 2253.0 | 2318.5 | 2594.9 | 2989.9 | 3191.5  | 3177.3  | 2925.0  | 2162.8 |
| 27.5° | 2688.1 | 2702.2 | 2644.4 | 2538.9 | 2475.8 | 2643.9 | 3094.2 | 3417.8  | 3417.3  | 3169.1  | 2276.6 |
| 30°   | 3050.0 | 3064.2 | 3005.2 | 2899.7 | 2754.7 | 2782.4 | 3184.4 | 3654.8  | 3658.4  | 3420.8  | 2397.4 |
| 32.5° | 3429.6 | 3447.3 | 3386.6 | 3251.0 | 3099.5 | 3021.7 | 3311.2 | 3893.0  | 3913.0  | 3712.6  | 2533.6 |
| 35°   | 3861.1 | 3863.5 | 3778.0 | 3636.0 | 3461.5 | 3341.8 | 3514.5 | 4160.0  | 4207.8  | 4073.9  | 2706.3 |
| 37.5° | 4284.4 | 4301.5 | 4231.3 | 4007.3 | 3847.0 | 3711.4 | 3816.9 | 4493.7  | 4561.5  | 4515.5  | 2932.1 |
| 40°   | 4598.0 | 4634.0 | 4623.9 | 4382.2 | 4230.2 | 4133.5 | 4192.4 | 4890.4  | 4976.5  | 5029.5  | 3216.8 |
| 42.5° | 4794.9 | 4822.0 | 4868.0 | 4722.4 | 4584.4 | 4600.4 | 4635.7 | 5352.5  | 5458.7  | 5615.5  | 3544.0 |
| 45°   | 5020.7 | 5033.6 | 5071.9 | 5007.7 | 4914.6 | 5074.9 | 5106.1 | 5873.1  | 5984.5  | 6245.6  | 3907.1 |
| 47.5° | 5296.5 | 5327.2 | 5337.8 | 5278.9 | 5236.4 | 5494.6 | 5559.5 | 6346.4  | 6502.6  | 6920.6  | 4291.5 |
| 50°   | 5647.9 | 5656.1 | 5674.4 | 5636.1 | 5593.6 | 5855.4 | 5966.2 | 6843.4  | 6985.4  | 7597.9  | 4670.5 |
| 52.5° | 5991.5 | 6021.0 | 6084.7 | 6060.5 | 6043.4 | 6162.5 | 6328.7 | 7291.4  | 7449.9  | 8162.6  | 5049.0 |
| 55°   | 6090.6 | 6115.9 | 6335.8 | 6486.1 | 6625.2 | 6541.0 | 6675.4 | 7692.8  | 7864.4  | 8667.2  | 5413.3 |
| 57.5° | 5695.0 | 5746.3 | 6127.1 | 6518.6 | 7095.7 | 7129.3 | 7151.7 | 8104.9  | 8258.7  | 9053.9  | 5792.3 |
| 60°   | 4695.3 | 4705.3 | 5330.1 | 6001.6 | 7017.8 | 7642.7 | 7847.3 | 8547.6  | 8676.7  | 9414.1  | 6246.2 |
| 62.5° | 2986.3 | 3088.3 | 3773.9 | 4721.8 | 6194.9 | 7568.4 | 8688.5 | 9217.2  | 9264.4  | 9846.2  | 6897.0 |
| 65°   | 1422.4 | 1488.5 | 1982.4 | 2917.4 | 4487.2 | 6617.6 | 9269.1 | 10428.6 | 10449.8 | 10702.7 | 7766.5 |
| 67.5° | 787.6  | 819.4  | 1054.6 | 1570.4 | 2623.2 | 4679.9 | 9034.5 | 11863.4 | 11883.5 | 11577.5 | 8529.3 |
| 69°   | 616.0  | 643.1  | 828.2  | 1183.7 | 1778.5 | 3363.6 | 8175.6 | 12283.7 | 12343.3 | 11828.1 | 8556.4 |
| 70°   | 522.9  | 549.4  | 713.3  | 999.8  | 1430.1 | 2599.0 | 7277.2 | 12179.4 | 12242.5 | 11804.5 | 8354.2 |
| 72.5° | 320.1  | 335.4  | 475.1  | 703.8  | 958.5  | 1307.5 | 4487.8 | 10300.1 | 10406.8 | 10828.3 | 7180.0 |
| 75°   | 215.8  | 224.0  | 297.1  | 485.7  | 685.6  | 673.2  | 2331.4 | 7260.1  | 7491.2  | 8423.2  | 5303.0 |
| 77.5° | 154.4  | 162.1  | 199.2  | 314.2  | 480.4  | 444.5  | 1055.8 | 4511.9  | 4561.5  | 5051.9  | 2892.0 |
| 80°   | 87.8   | 94.9   | 140.9  | 186.9  | 326.0  | 296.5  | 419.7  | 2155.2  | 2179.9  | 2166.4  | 965.6  |
| 82.5° | 46.0   | 51.9   | 77.2   | 123.2  | 209.3  | 193.9  | 174.5  | 721.5   | 725.1   | 603.0   | 211.6  |
| 85°   | 8.8    | 10.6   | 38.3   | 84.3   | 107.9  | 84.3   | 71.3   | 169.2   | 172.7   | 152.7   | 52.5   |
| 87.5° | 0.0    | 0.6    | 15.3   | 18.9   | 21.2   | 21.8   | 23.0   | 33.0    | 35.4    | 47.7    | 14.1   |
| 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: P321997

CATALOG NUMBER: GAN-SA3B-760-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 | 1412.4 |
| 2.5°  | 1418.9 | 1397.7 | 1357.0 | 1309.8 | 1273.3 | 1237.3 | 1209.0 | 1179.6 | 1169.0 | 1163.6 | 1163.1 |
| 5°    | 1433.0 | 1388.2 | 1302.2 | 1213.8 | 1141.2 | 1072.9 | 1023.9 | 977.4  | 955.6  | 945.5  | 941.4  |
| 7.5°  | 1456.6 | 1384.7 | 1246.2 | 1111.2 | 1006.8 | 921.4  | 853.6  | 802.9  | 777.5  | 766.9  | 762.8  |
| 10°   | 1484.3 | 1380.0 | 1180.7 | 1002.7 | 869.5  | 781.1  | 713.9  | 663.8  | 636.1  | 624.3  | 618.4  |
| 12.5° | 1516.8 | 1371.7 | 1105.3 | 893.1  | 752.2  | 663.8  | 582.4  | 520.5  | 488.7  | 475.1  | 468.6  |
| 15°   | 1556.8 | 1363.5 | 1026.3 | 789.9  | 649.0  | 541.1  | 452.1  | 410.3  | 403.8  | 401.4  | 402.0  |
| 17.5° | 1596.3 | 1350.5 | 940.2  | 687.9  | 540.6  | 422.7  | 377.3  | 374.9  | 376.1  | 376.1  | 376.1  |
| 20°   | 1631.7 | 1321.0 | 846.5  | 600.7  | 437.4  | 356.6  | 347.2  | 343.1  | 340.1  | 337.8  | 334.8  |
| 22.5° | 1659.4 | 1281.5 | 756.3  | 514.0  | 357.2  | 326.6  | 311.8  | 298.9  | 288.3  | 281.2  | 277.6  |
| 25°   | 1678.3 | 1229.1 | 673.8  | 430.9  | 321.3  | 297.1  | 270.6  | 248.8  | 232.3  | 222.2  | 218.1  |
| 27.5° | 1692.4 | 1172.5 | 600.1  | 360.8  | 296.5  | 262.9  | 228.1  | 202.2  | 185.1  | 176.3  | 172.7  |
| 30°   | 1702.4 | 1108.2 | 535.3  | 317.1  | 268.8  | 227.0  | 189.8  | 164.5  | 152.1  | 147.4  | 145.0  |
| 32.5° | 1711.9 | 1036.9 | 473.9  | 296.5  | 242.9  | 193.9  | 159.2  | 139.7  | 132.0  | 126.2  | 124.4  |
| 35°   | 1735.5 | 970.9  | 415.6  | 274.7  | 216.3  | 165.6  | 136.8  | 122.6  | 115.0  | 111.4  | 110.2  |
| 37.5° | 1791.5 | 922.0  | 359.6  | 252.3  | 189.8  | 143.2  | 119.7  | 109.6  | 102.6  | 99.0   | 97.9   |
| 40°   | 1881.6 | 897.2  | 312.4  | 228.1  | 163.9  | 126.2  | 108.5  | 99.0   | 91.4   | 86.1   | 84.9   |
| 42.5° | 2014.3 | 900.7  | 279.4  | 204.0  | 143.2  | 112.6  | 97.9   | 86.7   | 78.4   | 73.7   | 72.5   |
| 45°   | 2175.2 | 926.7  | 256.4  | 180.4  | 126.2  | 102.0  | 86.1   | 74.3   | 66.6   | 62.5   | 61.3   |
| 47.5° | 2349.7 | 968.5  | 237.6  | 159.2  | 112.6  | 92.0   | 74.3   | 61.9   | 55.4   | 51.9   | 51.3   |
| 50°   | 2533.6 | 1009.2 | 218.1  | 138.5  | 100.8  | 81.9   | 62.5   | 51.3   | 46.0   | 43.0   | 41.9   |
| 52.5° | 2719.9 | 1056.4 | 200.4  | 119.7  | 90.8   | 70.1   | 51.9   | 41.9   | 37.7   | 35.4   | 34.2   |
| 55°   | 2920.3 | 1091.7 | 183.3  | 104.9  | 80.8   | 59.5   | 43.0   | 34.8   | 31.2   | 28.3   | 27.7   |
| 57.5° | 3156.1 | 1146.6 | 165.6  | 90.8   | 69.0   | 49.5   | 35.4   | 27.7   | 24.8   | 21.8   | 21.2   |
| 60°   | 3474.4 | 1210.8 | 146.8  | 80.2   | 56.6   | 40.7   | 28.9   | 22.4   | 18.9   | 16.5   | 15.9   |
| 62.5° | 3894.2 | 1282.1 | 123.2  | 70.1   | 46.0   | 33.0   | 23.0   | 17.7   | 13.6   | 10.6   | 10.6   |
| 65°   | 4426.5 | 1398.3 | 100.8  | 58.9   | 37.7   | 27.1   | 17.7   | 13.0   | 7.7    | 4.7    | 4.7    |
| 67.5° | 4737.1 | 1418.3 | 81.3   | 48.3   | 30.7   | 23.0   | 14.7   | 8.8    | 2.4    | 0.6    | 0.0    |
| 69°   | 4637.5 | 1302.2 | 69.0   | 41.3   | 26.5   | 21.8   | 13.6   | 6.5    | 1.2    | 0.0    | 0.0    |
| 70°   | 4450.0 | 1190.8 | 60.7   | 36.5   | 24.2   | 20.6   | 13.0   | 4.7    | 1.2    | 0.0    | 0.0    |
| 72.5° | 3677.2 | 847.7  | 46.0   | 27.1   | 17.7   | 18.3   | 11.8   | 2.9    | 1.2    | 0.0    | 0.0    |
| 75°   | 2678.6 | 515.2  | 33.0   | 18.9   | 11.2   | 13.6   | 8.3    | 1.2    | 0.6    | 0.0    | 0.0    |
| 77.5° | 1490.2 | 242.9  | 20.6   | 10.6   | 7.1    | 8.3    | 4.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 484.0  | 66.0   | 9.4    | 5.9    | 4.1    | 4.7    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 89.6   | 18.9   | 5.3    | 2.9    | 1.2    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.5   | 7.7    | 2.9    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 6.5    | 2.4    | 0.6    | 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)