

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: P317535

Luminaire Tested: **GAN-SA1D-760-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8463 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

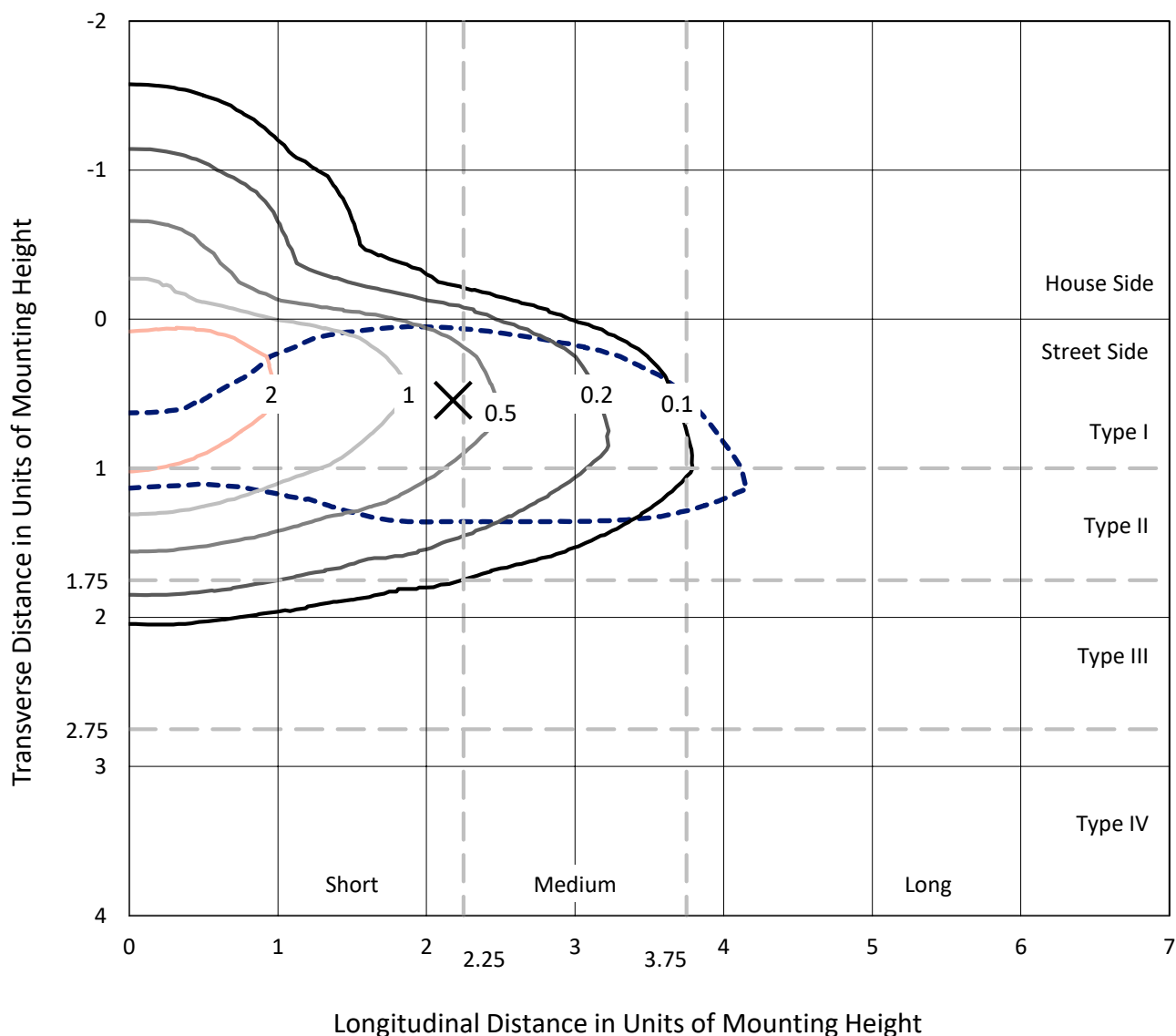
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P317535  
 CATALOG NUMBER: GAN-SA1D-760-U-T2R

## Iso-Footcandle Lines of Horizontal Illumination

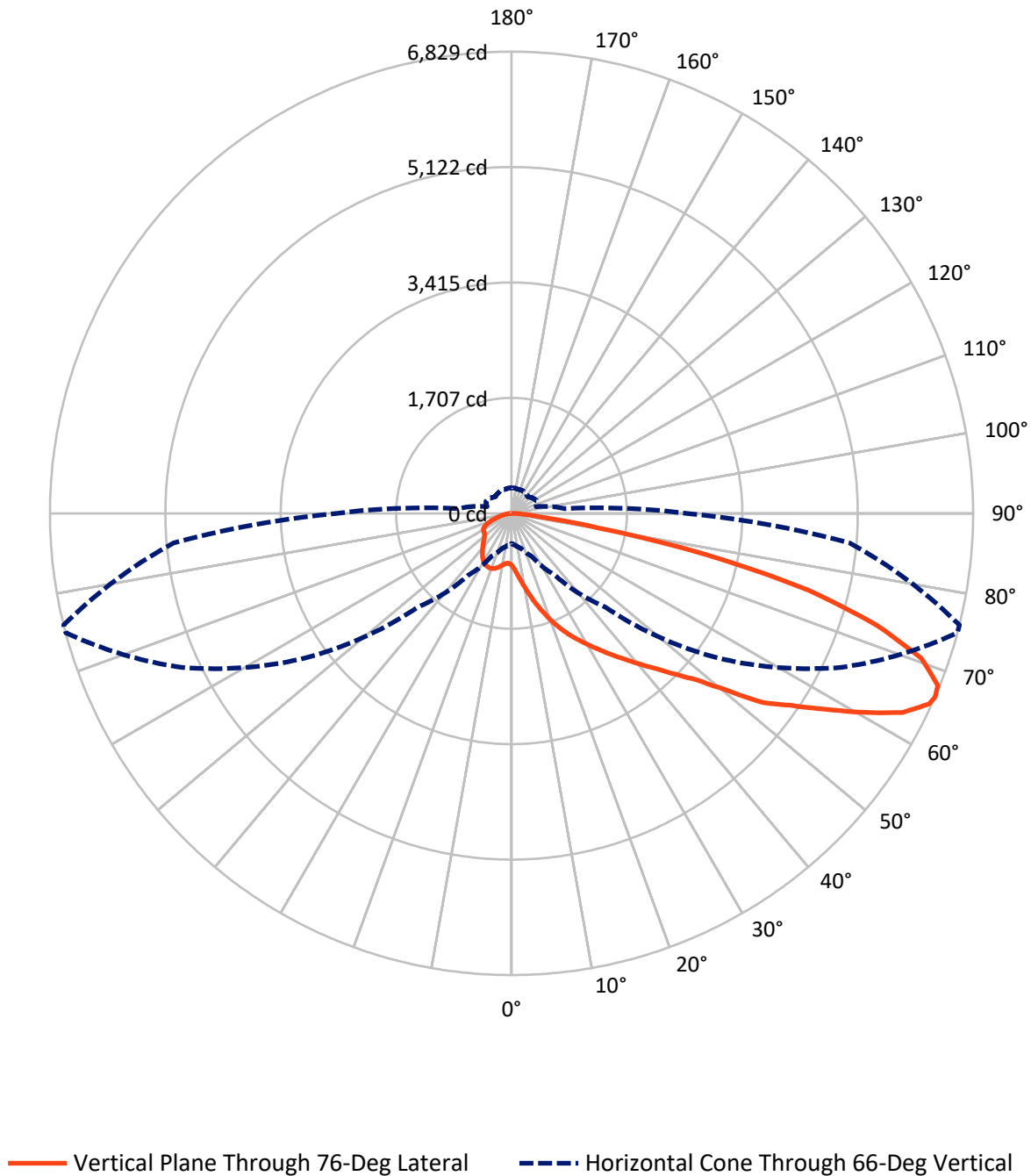
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P317535  
CATALOG NUMBER: GAN-SA1D-760-U-T2R

## Luminous Intensity Polar Plot



REPORT NUMBER: P317535

CATALOG NUMBER: GAN-SA1D-760-U-T2R

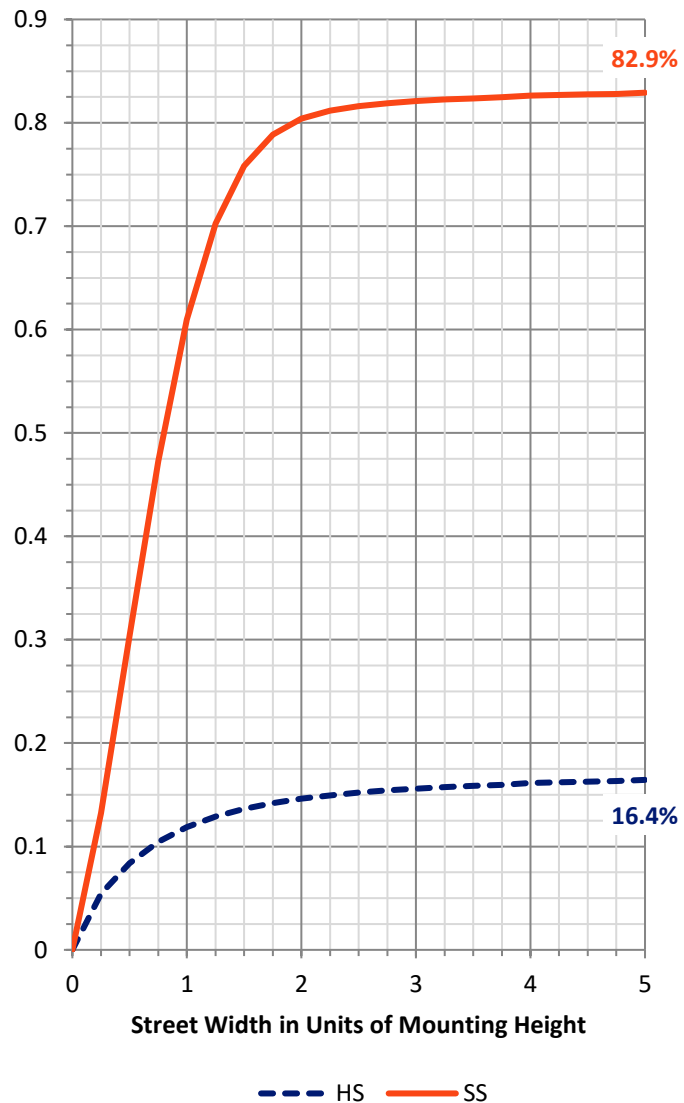
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1424.0   | 0.0    | 1424.0 |
|                    | % Fixture | 16.8     | 0.0    | 16.8   |
| <b>Street Side</b> | Lumens    | 7039.0   | 0.0    | 7039.0 |
|                    | % Fixture | 83.2     | 0.0    | 83.2   |
| <b>Total</b>       | Lumens    | 8463.0   | 0.0    | 8463.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.5   | 1.1       |
| 10°-20°   | 369.1  | 4.4       |
| 20°-30°   | 717.2  | 8.5       |
| 30°-40°   | 1170.6 | 13.8      |
| 40°-50°   | 1599.3 | 18.9      |
| 50°-60°   | 1862.9 | 22.0      |
| 60°-70°   | 1670.1 | 19.7      |
| 70°-80°   | 844.0  | 10.0      |
| 80°-90°   | 136.3  | 1.6       |
| 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°    | 8463.0 | 100.0     |
| 0°-180°   | 8463.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P317535

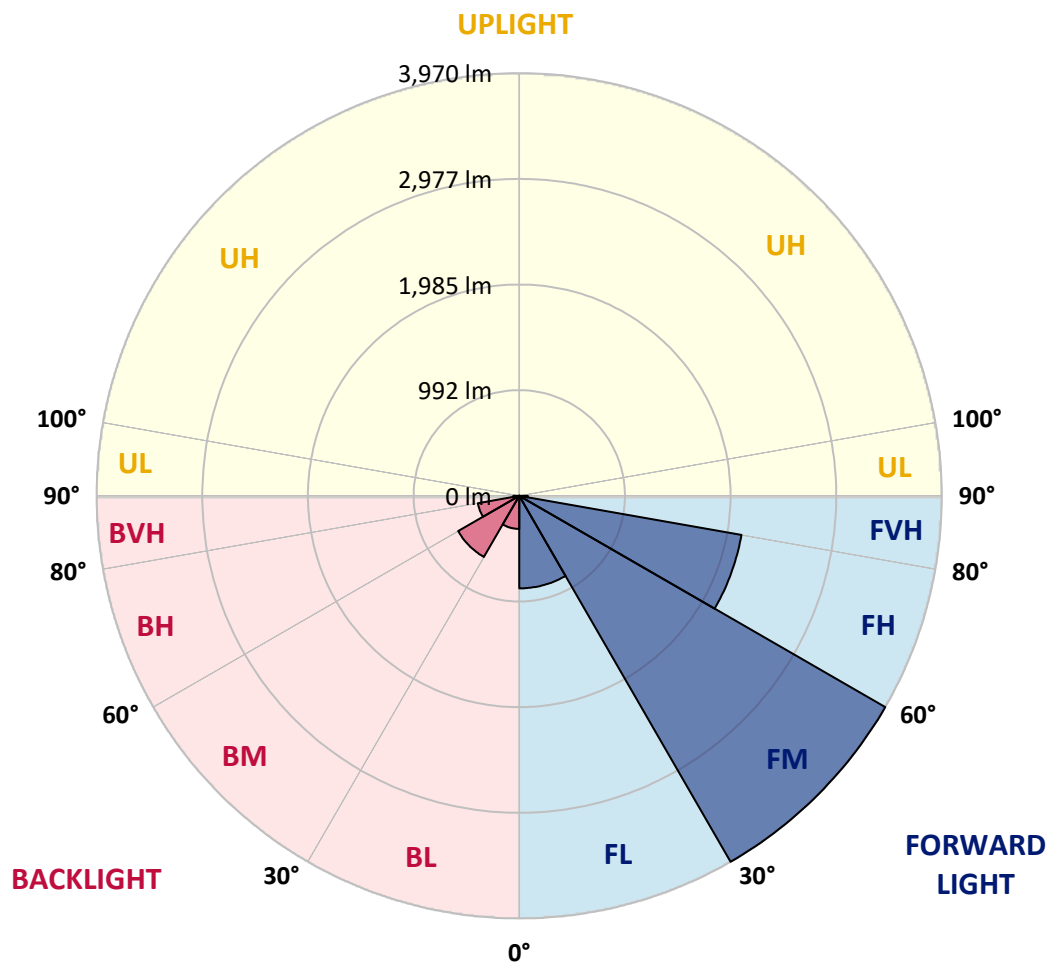
CATALOG NUMBER: GAN-SA1D-760-U-T2R

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 869.1  | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 3969.7 | 46.9      |                         |      |         |
| FH   | (60°-80°)   | 2119.6 | 25.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 80.5   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 310.6  | 3.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 663.1  | 7.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 394.5  | 4.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 55.8   | 0.7       |                         |      | G1/100  |
| 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 Short



REPORT NUMBER: P317535

CATALOG NUMBER: GAN-SA1D-760-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  | 772.9  |
| 2.5°  | 1026.0 | 1010.5 | 1009.0 | 986.3  | 981.2  | 937.8  | 905.9  | 872.6  | 834.6  | 827.2  | 797.3  |
| 5°    | 1317.9 | 1316.5 | 1296.6 | 1259.6 | 1230.5 | 1156.4 | 1083.2 | 1005.6 | 920.5  | 906.7  | 839.5  |
| 7.5°  | 1580.5 | 1578.2 | 1563.0 | 1523.0 | 1481.1 | 1390.0 | 1285.4 | 1166.5 | 1028.6 | 1008.2 | 896.7  |
| 10°   | 1779.9 | 1779.0 | 1773.8 | 1744.5 | 1708.9 | 1621.6 | 1506.1 | 1343.7 | 1154.1 | 1126.3 | 968.2  |
| 12.5° | 1933.9 | 1935.6 | 1939.1 | 1928.7 | 1911.8 | 1837.3 | 1719.0 | 1531.6 | 1288.0 | 1260.4 | 1047.8 |
| 15°   | 2038.2 | 2043.3 | 2061.2 | 2075.8 | 2084.7 | 2039.0 | 1924.4 | 1723.9 | 1438.0 | 1404.9 | 1136.0 |
| 17.5° | 2090.8 | 2096.5 | 2127.2 | 2171.5 | 2212.3 | 2207.7 | 2116.6 | 1907.2 | 1581.9 | 1550.0 | 1230.8 |
| 20°   | 2136.1 | 2140.5 | 2174.9 | 2228.1 | 2300.2 | 2332.1 | 2281.0 | 2083.6 | 1739.7 | 1701.7 | 1331.4 |
| 22.5° | 2267.7 | 2273.2 | 2283.5 | 2313.7 | 2377.5 | 2436.1 | 2411.4 | 2250.5 | 1884.2 | 1848.8 | 1426.8 |
| 25°   | 2521.7 | 2528.3 | 2505.9 | 2480.3 | 2492.4 | 2533.2 | 2537.8 | 2402.8 | 2030.7 | 1990.8 | 1529.3 |
| 27.5° | 2827.7 | 2837.2 | 2799.0 | 2733.2 | 2675.7 | 2659.9 | 2654.5 | 2527.5 | 2170.6 | 2124.4 | 1630.8 |
| 30°   | 3127.4 | 3143.7 | 3094.0 | 3008.7 | 2903.3 | 2829.1 | 2774.3 | 2649.6 | 2308.5 | 2264.3 | 1726.4 |
| 32.5° | 3420.1 | 3413.5 | 3341.4 | 3258.1 | 3134.5 | 3041.7 | 2909.0 | 2780.6 | 2463.7 | 2412.8 | 1821.5 |
| 35°   | 3620.7 | 3623.0 | 3556.0 | 3457.2 | 3339.4 | 3268.1 | 3089.4 | 2921.9 | 2622.0 | 2575.2 | 1929.6 |
| 37.5° | 3791.3 | 3780.7 | 3704.9 | 3612.6 | 3511.2 | 3480.8 | 3300.6 | 3077.7 | 2793.5 | 2742.4 | 2044.5 |
| 40°   | 3848.2 | 3835.9 | 3786.2 | 3719.8 | 3638.5 | 3635.9 | 3533.6 | 3254.1 | 2987.4 | 2936.9 | 2174.1 |
| 42.5° | 3813.7 | 3797.9 | 3777.5 | 3759.4 | 3734.4 | 3745.9 | 3752.6 | 3460.9 | 3200.6 | 3144.0 | 2324.0 |
| 45°   | 3686.5 | 3662.6 | 3677.0 | 3716.3 | 3770.7 | 3835.6 | 3950.2 | 3689.9 | 3439.4 | 3392.0 | 2500.2 |
| 47.5° | 3490.8 | 3469.3 | 3514.1 | 3598.3 | 3745.9 | 3910.3 | 4137.3 | 3942.7 | 3724.4 | 3677.3 | 2751.0 |
| 50°   | 3215.6 | 3221.9 | 3286.0 | 3439.1 | 3662.3 | 3944.8 | 4367.7 | 4277.5 | 4138.7 | 4094.7 | 3093.2 |
| 52.5° | 2763.9 | 2765.1 | 2945.5 | 3196.9 | 3514.1 | 3926.9 | 4495.5 | 4705.3 | 4704.4 | 4651.3 | 3419.0 |
| 55°   | 2344.4 | 2370.0 | 2512.8 | 2847.0 | 3273.9 | 3855.7 | 4584.9 | 4913.3 | 5075.9 | 5013.6 | 3722.7 |
| 57.5° | 1934.7 | 1949.7 | 2085.0 | 2420.6 | 2931.1 | 3665.8 | 4676.5 | 5163.0 | 5504.0 | 5464.6 | 4100.2 |
| 60°   | 1468.7 | 1491.7 | 1631.6 | 1941.6 | 2492.7 | 3328.8 | 4685.2 | 5423.5 | 6015.7 | 5976.0 | 4521.7 |
| 62.5° | 953.3  | 992.9  | 1124.0 | 1414.4 | 1962.3 | 2844.1 | 4485.2 | 5593.9 | 6500.7 | 6486.6 | 4895.8 |
| 65°   | 547.9  | 577.8  | 668.9  | 893.0  | 1353.8 | 2235.6 | 4009.7 | 5528.4 | 6799.2 | 6791.1 | 5035.7 |
| 66°   | 447.6  | 466.3  | 536.1  | 697.9  | 1117.1 | 1963.2 | 3733.3 | 5390.2 | 6828.8 | 6829.1 | 5019.6 |
| 67.5° | 358.0  | 366.3  | 397.6  | 499.6  | 824.3  | 1556.1 | 3239.4 | 5085.4 | 6792.0 | 6802.1 | 4915.9 |
| 70°   | 296.2  | 300.5  | 310.3  | 335.0  | 449.9  | 938.4  | 2299.3 | 4293.3 | 6422.8 | 6430.6 | 4511.0 |
| 72.5° | 265.8  | 268.3  | 272.1  | 275.5  | 317.5  | 524.3  | 1404.4 | 3434.5 | 5631.3 | 5641.3 | 3894.2 |
| 75°   | 240.8  | 242.2  | 241.6  | 241.9  | 266.3  | 334.1  | 725.7  | 2564.2 | 4553.3 | 4533.2 | 2983.1 |
| 77.5° | 211.5  | 212.9  | 210.0  | 210.6  | 235.6  | 256.9  | 361.1  | 1795.1 | 3072.8 | 2930.8 | 1680.8 |
| 80°   | 178.7  | 179.9  | 178.7  | 180.7  | 205.1  | 193.9  | 210.0  | 1009.9 | 1358.7 | 1285.1 | 597.6  |
| 82.5° | 135.0  | 139.9  | 143.4  | 151.4  | 168.9  | 137.9  | 140.5  | 393.3  | 413.7  | 393.9  | 183.3  |
| 85°   | 59.2   | 72.1   | 108.0  | 115.8  | 127.0  | 82.7   | 92.2   | 160.3  | 168.4  | 163.2  | 66.7   |
| 87.5° | 15.5   | 17.0   | 53.4   | 67.2   | 70.4   | 37.4   | 48.0   | 73.0   | 77.0   | 73.0   | 22.1   |
| 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: P317535

CATALOG NUMBER: GAN-SA1D-760-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 772.9  | 772.9  | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 | 772.9 |
| 2.5°  | 781.5  | 767.4  | 742.1 | 719.7 | 702.8 | 691.3 | 679.8 | 674.0 | 670.6 | 667.1 | 667.7 |
| 5°    | 806.5  | 778.0  | 734.7 | 703.9 | 686.7 | 675.8 | 670.0 | 667.7 | 666.3 | 662.8 | 662.8 |
| 7.5°  | 844.1  | 803.9  | 744.1 | 712.5 | 699.0 | 690.7 | 687.2 | 686.1 | 684.4 | 680.3 | 680.9 |
| 10°   | 891.5  | 835.2  | 764.0 | 733.2 | 720.9 | 711.7 | 706.8 | 705.1 | 701.9 | 697.3 | 697.9 |
| 12.5° | 947.3  | 874.0  | 790.1 | 757.9 | 743.0 | 730.6 | 722.6 | 717.7 | 712.2 | 706.2 | 706.5 |
| 15°   | 1008.2 | 916.2  | 818.3 | 780.0 | 759.6 | 742.4 | 729.5 | 721.1 | 712.5 | 705.1 | 704.8 |
| 17.5° | 1069.9 | 957.0  | 839.8 | 792.1 | 764.5 | 741.8 | 724.3 | 711.4 | 700.7 | 691.6 | 690.7 |
| 20°   | 1136.6 | 993.8  | 851.9 | 791.0 | 755.3 | 728.3 | 705.1 | 689.0 | 677.2 | 668.0 | 666.6 |
| 22.5° | 1204.4 | 1028.3 | 853.9 | 779.2 | 734.9 | 701.9 | 677.5 | 659.7 | 647.6 | 638.1 | 634.7 |
| 25°   | 1266.5 | 1055.0 | 845.6 | 756.5 | 706.5 | 670.9 | 647.0 | 628.9 | 619.2 | 607.9 | 604.5 |
| 27.5° | 1323.1 | 1073.7 | 828.9 | 727.5 | 674.6 | 639.6 | 617.1 | 601.6 | 591.0 | 582.4 | 579.5 |
| 30°   | 1373.9 | 1083.7 | 801.6 | 693.0 | 641.8 | 610.0 | 591.0 | 580.4 | 571.2 | 560.3 | 558.2 |
| 32.5° | 1422.2 | 1083.7 | 766.5 | 655.4 | 609.4 | 583.8 | 572.6 | 566.0 | 555.7 | 545.0 | 542.2 |
| 35°   | 1470.5 | 1077.1 | 725.2 | 616.0 | 579.5 | 565.1 | 564.6 | 556.8 | 541.0 | 526.6 | 522.9 |
| 37.5° | 1521.3 | 1063.6 | 678.6 | 579.2 | 555.1 | 556.8 | 561.7 | 544.5 | 522.0 | 501.6 | 496.2 |
| 40°   | 1578.8 | 1044.9 | 630.4 | 547.3 | 534.7 | 553.1 | 553.9 | 526.6 | 483.0 | 464.3 | 459.4 |
| 42.5° | 1646.3 | 1026.3 | 585.5 | 519.2 | 518.6 | 541.9 | 539.3 | 488.1 | 462.0 | 452.5 | 449.9 |
| 45°   | 1735.1 | 1015.6 | 543.0 | 492.4 | 506.0 | 523.8 | 514.3 | 466.9 | 456.0 | 450.5 | 448.2 |
| 47.5° | 1875.0 | 1021.1 | 503.9 | 471.2 | 493.3 | 505.7 | 467.7 | 458.3 | 450.5 | 443.9 | 441.6 |
| 50°   | 2050.2 | 1017.9 | 472.3 | 456.5 | 478.9 | 486.7 | 446.8 | 447.1 | 443.0 | 435.6 | 432.1 |
| 52.5° | 2182.1 | 993.2  | 451.9 | 448.2 | 466.3 | 453.1 | 433.6 | 436.1 | 434.1 | 423.2 | 419.5 |
| 55°   | 2309.4 | 972.0  | 441.6 | 445.0 | 457.1 | 411.1 | 418.0 | 424.4 | 422.3 | 411.7 | 410.0 |
| 57.5° | 2467.7 | 967.9  | 435.3 | 445.9 | 449.4 | 390.2 | 403.1 | 411.4 | 410.0 | 405.4 | 404.5 |
| 60°   | 2661.6 | 969.1  | 429.5 | 447.3 | 440.7 | 374.7 | 389.0 | 399.6 | 400.5 | 399.6 | 399.1 |
| 62.5° | 2768.2 | 937.8  | 415.2 | 443.3 | 425.5 | 361.1 | 374.4 | 389.9 | 390.2 | 391.9 | 391.6 |
| 65°   | 2677.7 | 844.1  | 388.4 | 429.2 | 399.9 | 349.9 | 361.7 | 378.7 | 374.4 | 382.1 | 382.1 |
| 66°   | 2589.8 | 790.1  | 375.2 | 420.0 | 389.0 | 345.6 | 357.7 | 372.9 | 367.5 | 378.1 | 378.1 |
| 67.5° | 2410.2 | 699.0  | 351.4 | 400.5 | 373.5 | 339.6 | 353.1 | 363.4 | 356.0 | 371.8 | 370.6 |
| 70°   | 2082.1 | 540.7  | 303.4 | 356.3 | 347.9 | 330.7 | 346.8 | 344.5 | 333.6 | 357.7 | 353.1 |
| 72.5° | 1755.5 | 410.9  | 243.6 | 298.2 | 309.1 | 319.5 | 337.9 | 320.4 | 306.6 | 323.5 | 313.5 |
| 75°   | 1362.1 | 308.9  | 192.5 | 231.9 | 261.2 | 302.0 | 327.2 | 292.5 | 272.7 | 270.9 | 265.5 |
| 77.5° | 736.4  | 212.0  | 152.6 | 177.0 | 207.4 | 280.1 | 320.1 | 262.6 | 232.7 | 225.8 | 221.5 |
| 80°   | 291.6  | 137.9  | 110.9 | 134.2 | 145.1 | 248.5 | 302.8 | 227.8 | 191.9 | 185.0 | 178.4 |
| 82.5° | 120.4  | 81.6   | 71.5  | 89.9  | 94.5  | 212.6 | 271.8 | 186.8 | 148.3 | 205.1 | 217.8 |
| 85°   | 51.7   | 44.8   | 42.5  | 46.5  | 53.4  | 149.1 | 216.3 | 142.5 | 160.0 | 142.8 | 113.5 |
| 87.5° | 15.5   | 19.0   | 18.1  | 17.8  | 19.5  | 35.6  | 115.2 | 79.3  | 117.5 | 44.5  | 33.3  |
| 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)