

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: P317620

Luminaire Tested: **GAN-SA6D-830-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317620  
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-SA6D-830-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38419 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

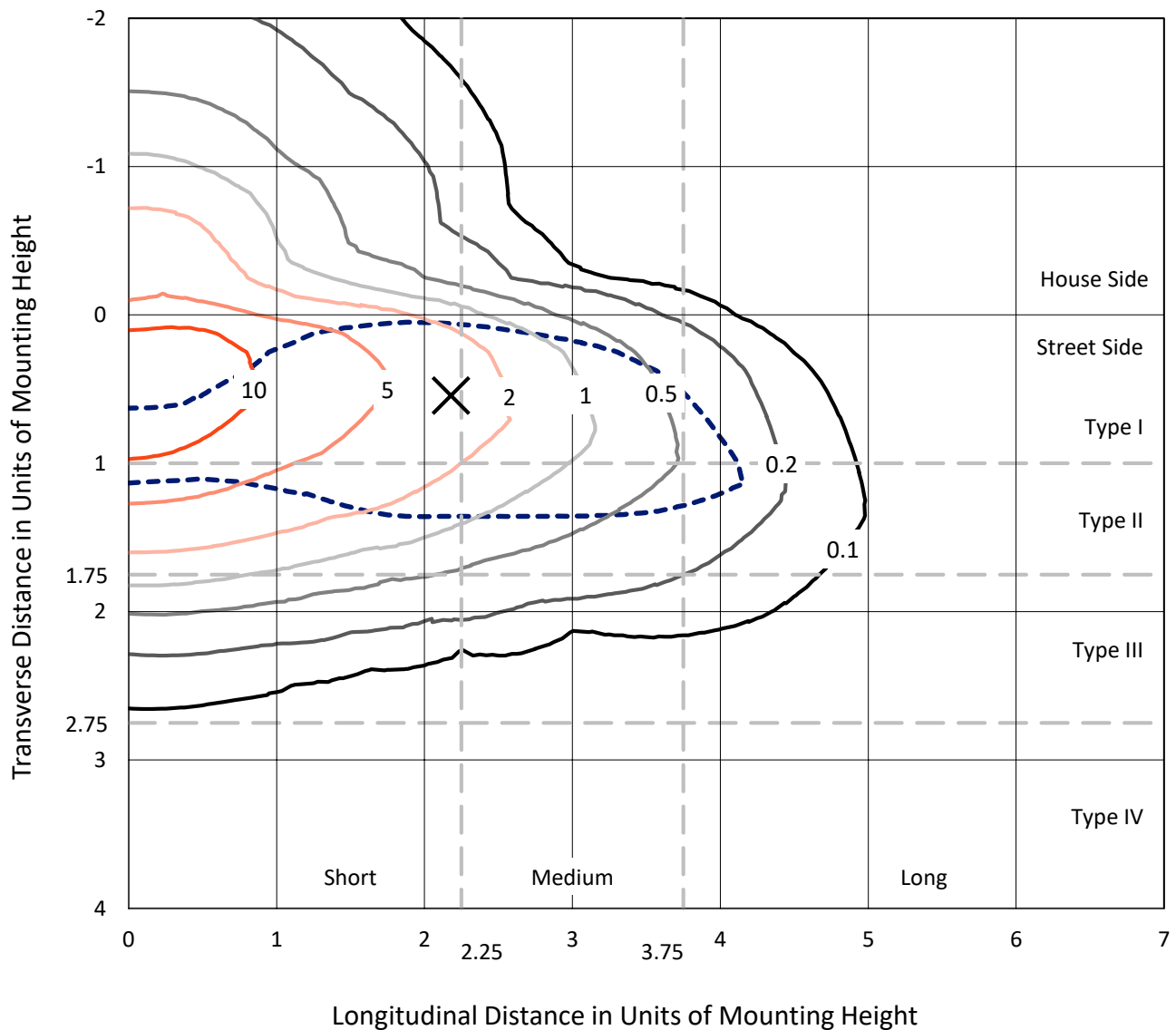
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P317620  
 CATALOG NUMBER: GAN-SA6D-830-U-T2R

## Iso-Footcandle Lines of Horizontal Illumination

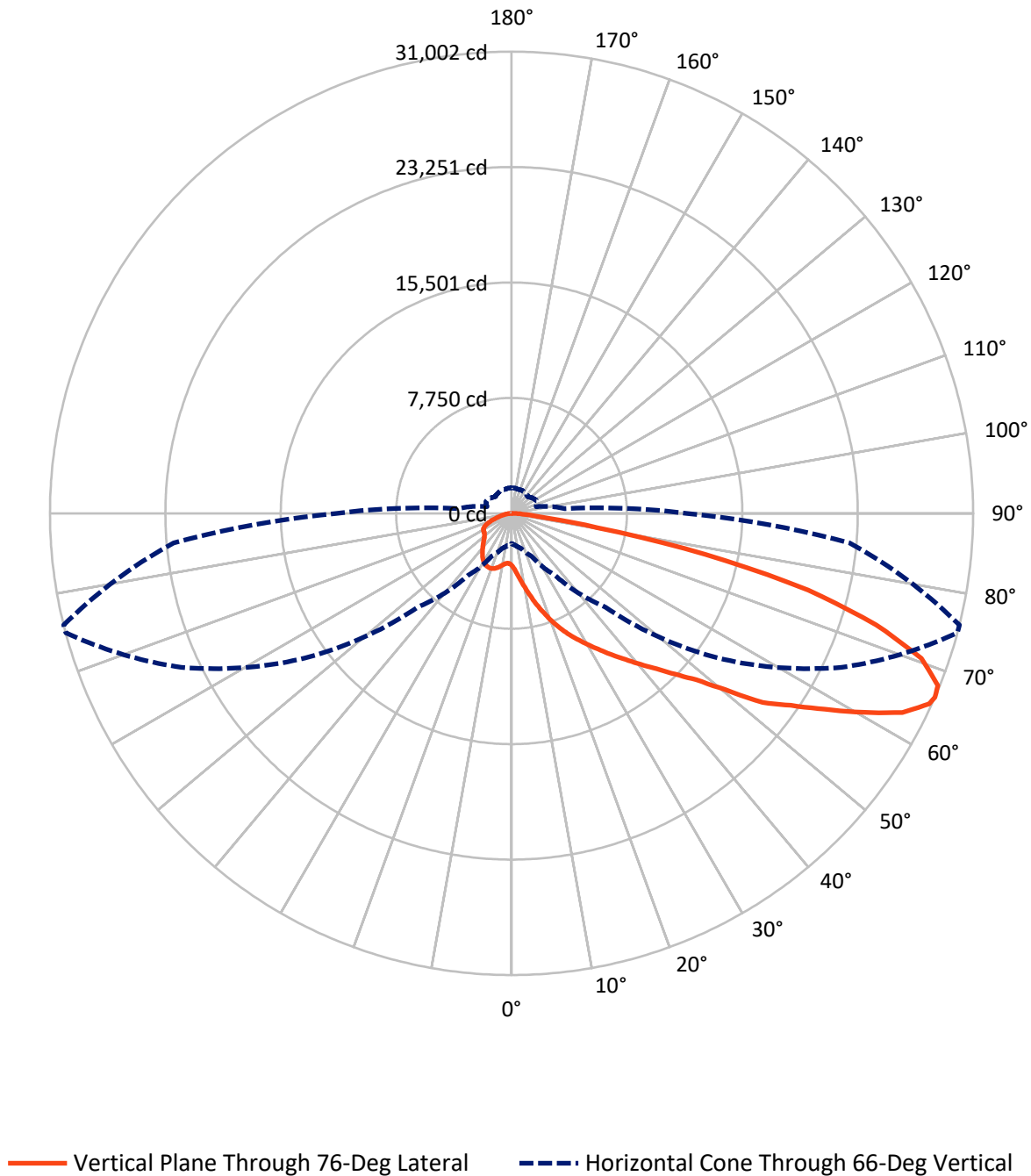
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P317620  
CATALOG NUMBER: GAN-SA6D-830-U-T2R

## Luminous Intensity Polar Plot



REPORT NUMBER: P317620

CATALOG NUMBER: GAN-SA6D-830-U-T2R

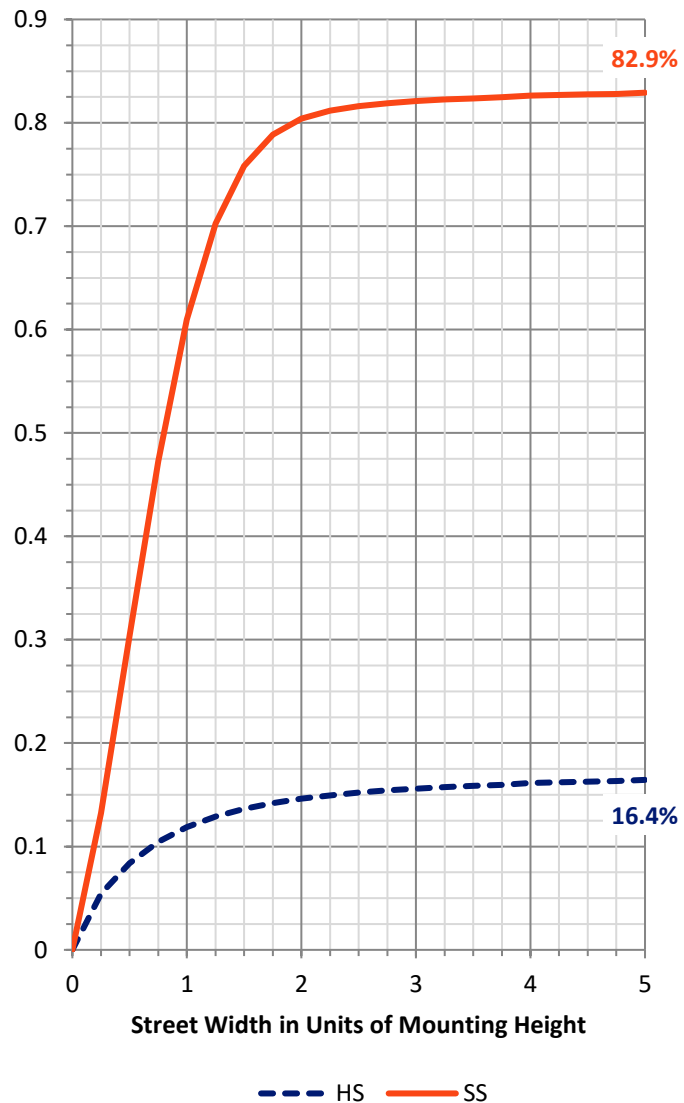
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6464.6   | 0.0    | 6464.6  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 31954.4  | 0.0    | 31954.4 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 38419.0  | 0.0    | 38419.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 424.3   | 1.1       |
| 10°-20°   | 1675.4  | 4.4       |
| 20°-30°   | 3255.8  | 8.5       |
| 30°-40°   | 5314.2  | 13.8      |
| 40°-50°   | 7260.4  | 18.9      |
| 50°-60°   | 8456.9  | 22.0      |
| 60°-70°   | 7581.8  | 19.7      |
| 70°-80°   | 3831.5  | 10.0      |
| 80°-90°   | 618.7   | 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°    | 38419.0 | 100.0     |
| 0°-180°   | 38419.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P317620

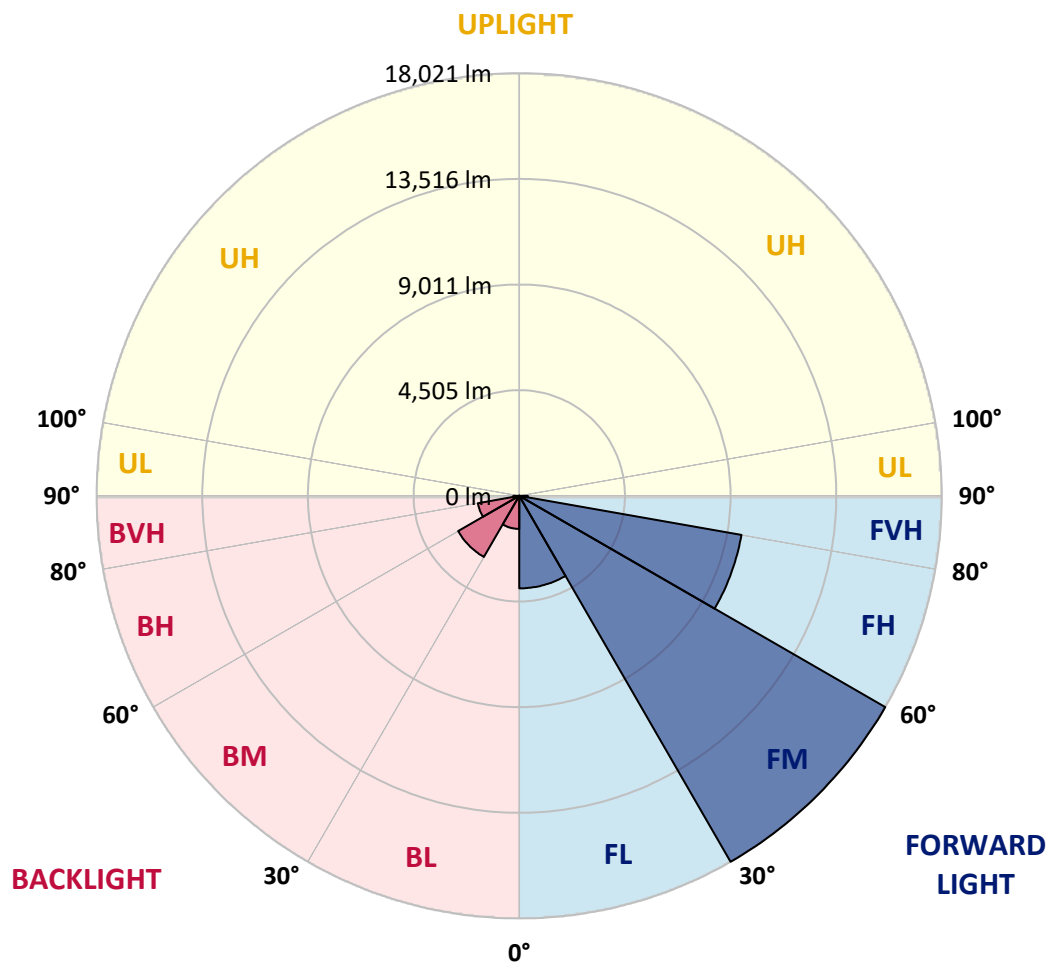
CATALOG NUMBER: GAN-SA6D-830-U-T2R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3945.5  | 10.3      |                         |      |          |
| FM   | (30°-60°)   | 18021.2 | 46.9      |                         |      |          |
| FH   | (60°-80°)   | 9622.3  | 25.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 365.4   | 1.0       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1410.0  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3010.3  | 7.8       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1791.0  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 253.3   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P317620

CATALOG NUMBER: GAN-SA6D-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  | 3508.5  |
| 2.5°  | 4657.6  | 4587.2  | 4580.6  | 4477.6  | 4454.1  | 4257.2  | 4112.4  | 3961.1  | 3788.9  | 3755.0  | 3619.4  |
| 5°    | 5982.7  | 5976.2  | 5886.2  | 5718.0  | 5586.2  | 5249.7  | 4917.1  | 4565.0  | 4178.9  | 4116.3  | 3811.1  |
| 7.5°  | 7174.9  | 7164.4  | 7095.3  | 6914.0  | 6723.6  | 6310.1  | 5835.4  | 5295.4  | 4669.3  | 4576.7  | 4070.7  |
| 10°   | 8080.0  | 8076.1  | 8052.6  | 7919.6  | 7757.9  | 7361.4  | 6837.1  | 6100.1  | 5239.3  | 5112.8  | 4395.4  |
| 12.5° | 8779.1  | 8787.0  | 8802.6  | 8755.7  | 8678.7  | 8340.9  | 7803.5  | 6953.1  | 5847.1  | 5721.9  | 4756.7  |
| 15°   | 9252.6  | 9276.1  | 9356.9  | 9423.4  | 9463.9  | 9256.5  | 8736.1  | 7825.7  | 6527.9  | 6377.9  | 5157.1  |
| 17.5° | 9491.3  | 9517.4  | 9656.9  | 9857.8  | 10043.0 | 10022.1 | 9608.7  | 8657.8  | 7181.4  | 7036.6  | 5587.5  |
| 20°   | 9697.3  | 9716.9  | 9873.4  | 10114.7 | 10442.1 | 10586.9 | 10354.7 | 9458.7  | 7897.4  | 7725.3  | 6044.0  |
| 22.5° | 10294.7 | 10319.5 | 10366.4 | 10503.4 | 10792.9 | 11059.0 | 10946.8 | 10216.4 | 8553.5  | 8393.1  | 6477.1  |
| 25°   | 11447.7 | 11477.7 | 11376.0 | 11259.9 | 11314.7 | 11499.9 | 11520.7 | 10907.7 | 9218.7  | 9037.4  | 6942.7  |
| 27.5° | 12836.8 | 12879.8 | 12706.3 | 12407.6 | 12146.8 | 12075.1 | 12050.3 | 11473.8 | 9853.9  | 9643.9  | 7403.1  |
| 30°   | 14197.1 | 14271.5 | 14045.8 | 13658.5 | 13179.8 | 12843.3 | 12594.2 | 12028.1 | 10479.9 | 10279.1 | 7837.4  |
| 32.5° | 15526.2 | 15496.2 | 15168.8 | 14790.6 | 14229.7 | 13808.4 | 13205.9 | 12622.9 | 11184.2 | 10953.4 | 8269.2  |
| 35°   | 16436.6 | 16447.0 | 16143.1 | 15694.4 | 15159.7 | 14836.2 | 14025.0 | 13264.6 | 11902.9 | 11690.3 | 8759.6  |
| 37.5° | 17211.3 | 17163.1 | 16818.7 | 16400.1 | 15939.6 | 15801.4 | 14983.6 | 13971.5 | 12681.5 | 12449.4 | 9281.3  |
| 40°   | 17469.6 | 17413.5 | 17187.8 | 16886.6 | 16517.4 | 16505.7 | 16041.4 | 14772.3 | 13561.9 | 13332.4 | 9869.5  |
| 42.5° | 17313.1 | 17241.3 | 17148.7 | 17066.5 | 16953.1 | 17005.2 | 17035.2 | 15711.4 | 14529.7 | 14272.8 | 10550.3 |
| 45°   | 16735.3 | 16627.0 | 16692.2 | 16870.9 | 17117.4 | 17412.2 | 17932.6 | 16750.9 | 15613.6 | 15398.4 | 11349.9 |
| 47.5° | 15847.0 | 15749.2 | 15952.7 | 16334.8 | 17005.2 | 17751.3 | 18781.7 | 17898.7 | 16907.4 | 16693.5 | 12488.5 |
| 50°   | 14597.5 | 14626.2 | 14917.1 | 15612.3 | 16625.7 | 17907.8 | 19827.7 | 19418.2 | 18788.2 | 18588.6 | 14041.9 |
| 52.5° | 12547.2 | 12552.4 | 13371.5 | 14512.8 | 15952.7 | 17826.9 | 20408.1 | 21360.2 | 21356.3 | 21115.0 | 15521.0 |
| 55°   | 10642.9 | 10759.0 | 11407.3 | 12924.1 | 14862.3 | 17503.5 | 20813.7 | 22304.5 | 23042.8 | 22759.7 | 16899.6 |
| 57.5° | 8783.0  | 8850.9  | 9465.2  | 10988.6 | 13306.3 | 16641.3 | 21229.8 | 23438.0 | 24986.1 | 24807.5 | 18613.4 |
| 60°   | 6667.5  | 6771.8  | 7407.0  | 8814.3  | 11316.0 | 15111.4 | 21268.9 | 24620.9 | 27309.1 | 27129.1 | 20526.8 |
| 62.5° | 4327.6  | 4507.6  | 5102.4  | 6421.0  | 8908.3  | 12911.1 | 20361.2 | 25394.4 | 29510.7 | 29446.8 | 22225.0 |
| 65°   | 2487.3  | 2622.9  | 3036.4  | 4053.7  | 6145.8  | 10148.6 | 18202.6 | 25097.0 | 30865.9 | 30829.3 | 22860.2 |
| 66°   | 2032.1  | 2116.9  | 2433.8  | 3168.1  | 5071.1  | 8912.2  | 16947.9 | 24469.7 | 31000.2 | 31001.5 | 22787.1 |
| 67.5° | 1625.1  | 1663.0  | 1805.1  | 2268.1  | 3742.0  | 7064.0  | 14705.8 | 23085.8 | 30833.2 | 30878.9 | 22316.3 |
| 70°   | 1344.7  | 1364.3  | 1408.6  | 1520.8  | 2042.5  | 4259.8  | 10438.2 | 19489.9 | 29157.2 | 29192.5 | 20478.5 |
| 72.5° | 1206.5  | 1218.2  | 1235.2  | 1250.8  | 1441.2  | 2380.3  | 6375.3  | 15591.4 | 25563.9 | 25609.6 | 17678.3 |
| 75°   | 1093.0  | 1099.5  | 1096.9  | 1098.2  | 1209.1  | 1516.9  | 3294.6  | 11640.7 | 20670.3 | 20579.0 | 13542.4 |
| 77.5° | 960.0   | 966.5   | 953.4   | 956.0   | 1069.5  | 1166.0  | 1639.5  | 8149.2  | 13949.3 | 13305.0 | 7630.1  |
| 80°   | 811.3   | 816.5   | 811.3   | 820.4   | 931.3   | 880.4   | 953.4   | 4584.6  | 6168.0  | 5834.1  | 2712.9  |
| 82.5° | 613.0   | 635.2   | 650.8   | 687.4   | 766.9   | 626.1   | 637.8   | 1785.6  | 1878.2  | 1788.2  | 832.1   |
| 85°   | 268.7   | 327.4   | 490.4   | 525.6   | 576.5   | 375.6   | 418.7   | 727.8   | 764.3   | 740.8   | 302.6   |
| 87.5° | 70.4    | 77.0    | 242.6   | 305.2   | 319.5   | 169.6   | 217.8   | 331.3   | 349.5   | 331.3   | 100.4   |
| 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: P317620

CATALOG NUMBER: GAN-SA6D-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3508.5  | 3508.5 | 3508.5 | 3508.5 | 3508.5 | 3508.5 | 3508.5 | 3508.5 | 3508.5 | 3508.5 | 3508.5 |
| 2.5°  | 3547.6  | 3483.7 | 3369.0 | 3267.2 | 3190.3 | 3138.1 | 3085.9 | 3059.8 | 3044.2 | 3028.5 | 3031.2 |
| 5°    | 3661.1  | 3532.0 | 3335.1 | 3195.5 | 3117.2 | 3067.7 | 3041.6 | 3031.2 | 3024.6 | 3009.0 | 3009.0 |
| 7.5°  | 3832.0  | 3649.4 | 3378.1 | 3234.6 | 3173.3 | 3135.5 | 3119.8 | 3114.6 | 3106.8 | 3088.5 | 3091.2 |
| 10°   | 4047.2  | 3791.6 | 3468.1 | 3328.5 | 3272.4 | 3230.7 | 3208.5 | 3200.7 | 3186.4 | 3165.5 | 3168.1 |
| 12.5° | 4300.2  | 3967.6 | 3586.8 | 3440.7 | 3372.9 | 3316.8 | 3280.3 | 3258.1 | 3233.3 | 3205.9 | 3207.2 |
| 15°   | 4576.7  | 4159.4 | 3714.6 | 3541.1 | 3448.5 | 3370.3 | 3311.6 | 3273.8 | 3234.6 | 3200.7 | 3199.4 |
| 17.5° | 4857.1  | 4344.6 | 3812.4 | 3595.9 | 3470.7 | 3367.7 | 3288.1 | 3229.4 | 3181.1 | 3139.4 | 3135.5 |
| 20°   | 5159.7  | 4511.5 | 3867.2 | 3590.7 | 3429.0 | 3306.4 | 3200.7 | 3127.7 | 3074.2 | 3032.5 | 3025.9 |
| 22.5° | 5467.6  | 4668.0 | 3876.3 | 3537.2 | 3336.4 | 3186.4 | 3075.5 | 2994.6 | 2939.9 | 2896.8 | 2881.2 |
| 25°   | 5749.3  | 4789.3 | 3838.5 | 3434.2 | 3207.2 | 3045.5 | 2937.2 | 2855.1 | 2810.7 | 2759.9 | 2744.2 |
| 27.5° | 6006.2  | 4874.1 | 3762.9 | 3302.4 | 3062.5 | 2903.3 | 2801.6 | 2731.2 | 2682.9 | 2643.8 | 2630.7 |
| 30°   | 6237.1  | 4919.8 | 3638.9 | 3145.9 | 2913.8 | 2769.0 | 2682.9 | 2634.7 | 2592.9 | 2543.4 | 2534.2 |
| 32.5° | 6456.2  | 4919.8 | 3479.8 | 2975.1 | 2766.4 | 2650.3 | 2599.4 | 2569.4 | 2522.5 | 2474.2 | 2461.2 |
| 35°   | 6675.3  | 4889.8 | 3292.0 | 2796.4 | 2630.7 | 2565.5 | 2562.9 | 2527.7 | 2456.0 | 2390.8 | 2373.8 |
| 37.5° | 6906.2  | 4828.5 | 3080.7 | 2629.4 | 2519.9 | 2527.7 | 2549.9 | 2471.6 | 2369.9 | 2277.3 | 2252.5 |
| 40°   | 7167.0  | 4743.7 | 2861.6 | 2484.7 | 2427.3 | 2510.7 | 2514.7 | 2390.8 | 2192.5 | 2107.7 | 2085.5 |
| 42.5° | 7473.5  | 4658.9 | 2658.1 | 2356.8 | 2354.2 | 2459.9 | 2448.1 | 2216.0 | 2097.3 | 2054.2 | 2042.5 |
| 45°   | 7876.6  | 4610.6 | 2465.1 | 2235.5 | 2296.8 | 2377.7 | 2334.7 | 2119.5 | 2069.9 | 2045.1 | 2034.7 |
| 47.5° | 8511.8  | 4635.4 | 2287.7 | 2139.0 | 2239.5 | 2295.5 | 2123.4 | 2080.3 | 2045.1 | 2015.1 | 2004.7 |
| 50°   | 9307.4  | 4621.1 | 2144.2 | 2072.5 | 2174.2 | 2209.5 | 2028.2 | 2029.5 | 2011.2 | 1977.3 | 1961.6 |
| 52.5° | 9906.0  | 4508.9 | 2051.6 | 2034.7 | 2116.9 | 2056.9 | 1968.2 | 1979.9 | 1970.8 | 1921.2 | 1904.3 |
| 55°   | 10483.8 | 4412.4 | 2004.7 | 2020.3 | 2075.1 | 1866.4 | 1897.7 | 1926.4 | 1917.3 | 1869.0 | 1861.2 |
| 57.5° | 11202.5 | 4394.1 | 1976.0 | 2024.2 | 2039.9 | 1771.2 | 1829.9 | 1867.7 | 1861.2 | 1840.3 | 1836.4 |
| 60°   | 12082.9 | 4399.3 | 1949.9 | 2030.8 | 2000.8 | 1700.8 | 1766.0 | 1814.3 | 1818.2 | 1814.3 | 1811.6 |
| 62.5° | 12566.8 | 4257.2 | 1884.7 | 2012.5 | 1931.6 | 1639.5 | 1699.5 | 1769.9 | 1771.2 | 1779.0 | 1777.7 |
| 65°   | 12155.9 | 3832.0 | 1763.4 | 1948.6 | 1815.6 | 1588.6 | 1642.1 | 1719.0 | 1699.5 | 1734.7 | 1734.7 |
| 66°   | 11756.8 | 3586.8 | 1703.4 | 1906.9 | 1766.0 | 1569.1 | 1623.8 | 1693.0 | 1668.2 | 1716.4 | 1716.4 |
| 67.5° | 10941.6 | 3173.3 | 1595.1 | 1818.2 | 1695.6 | 1541.7 | 1603.0 | 1649.9 | 1616.0 | 1687.7 | 1682.5 |
| 70°   | 9452.1  | 2454.7 | 1377.3 | 1617.3 | 1579.5 | 1501.2 | 1574.3 | 1563.8 | 1514.3 | 1623.8 | 1603.0 |
| 72.5° | 7969.2  | 1865.1 | 1106.0 | 1353.8 | 1403.4 | 1450.4 | 1533.8 | 1454.3 | 1391.7 | 1468.6 | 1423.0 |
| 75°   | 6183.6  | 1402.1 | 873.9  | 1052.6 | 1185.6 | 1370.8 | 1485.6 | 1327.8 | 1237.8 | 1229.9 | 1205.2 |
| 77.5° | 3342.9  | 962.6  | 692.6  | 803.4  | 941.7  | 1271.7 | 1453.0 | 1192.1 | 1056.5 | 1025.2 | 1005.6 |
| 80°   | 1323.8  | 626.1  | 503.5  | 609.1  | 658.7  | 1128.2 | 1374.7 | 1034.3 | 871.3  | 840.0  | 810.0  |
| 82.5° | 546.5   | 370.4  | 324.8  | 408.2  | 429.1  | 965.2  | 1233.9 | 847.8  | 673.0  | 931.3  | 988.6  |
| 85°   | 234.8   | 203.5  | 193.0  | 211.3  | 242.6  | 676.9  | 982.1  | 646.9  | 726.5  | 648.2  | 515.2  |
| 87.5° | 70.4    | 86.1   | 82.2   | 80.9   | 88.7   | 161.7  | 523.0  | 360.0  | 533.5  | 202.2  | 151.3  |
| 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)