

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: P319966

Luminaire Tested: **GAN-SA2C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12524 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

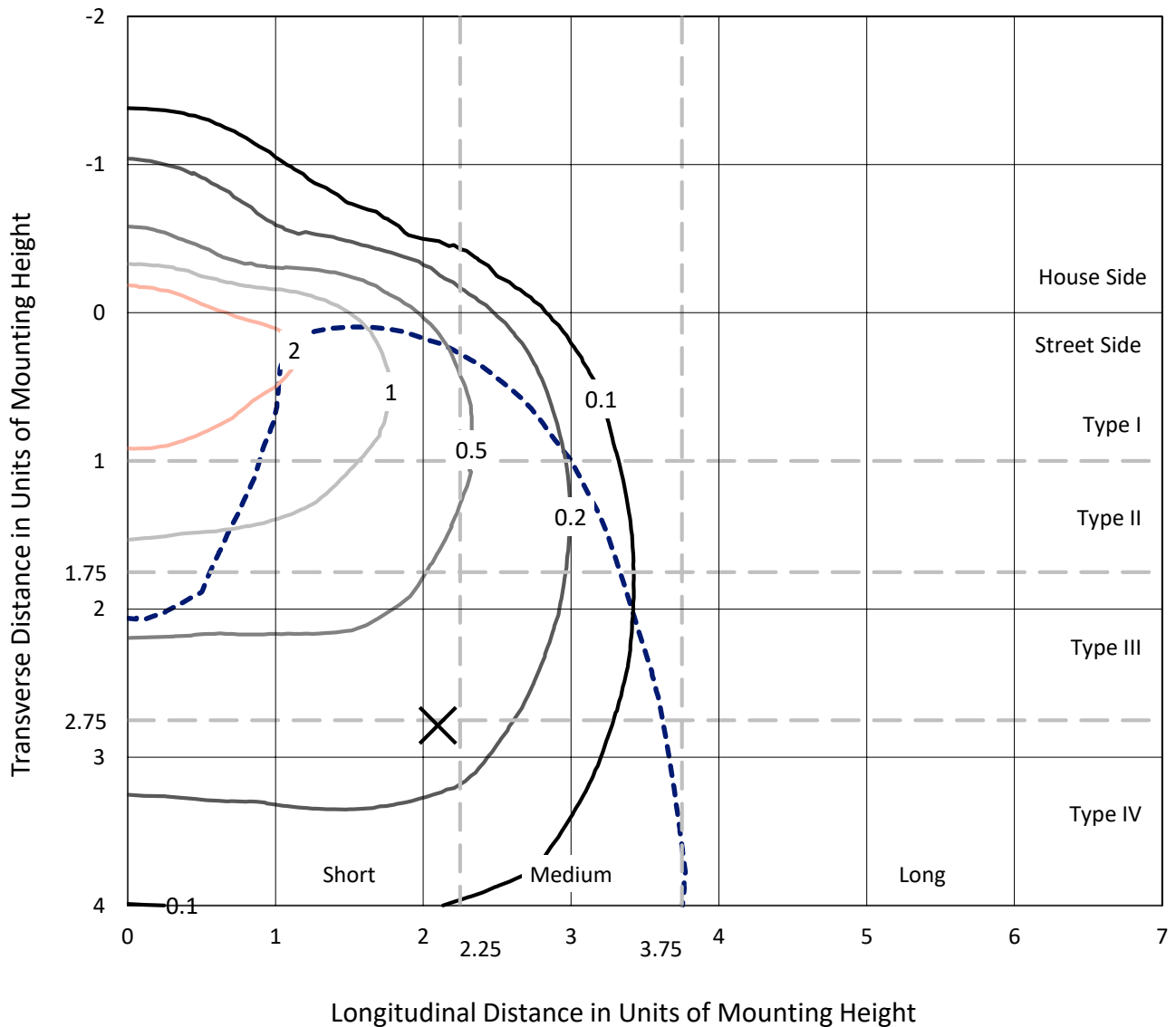
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319966
 CATALOG NUMBER: GAN-SA2C-730-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

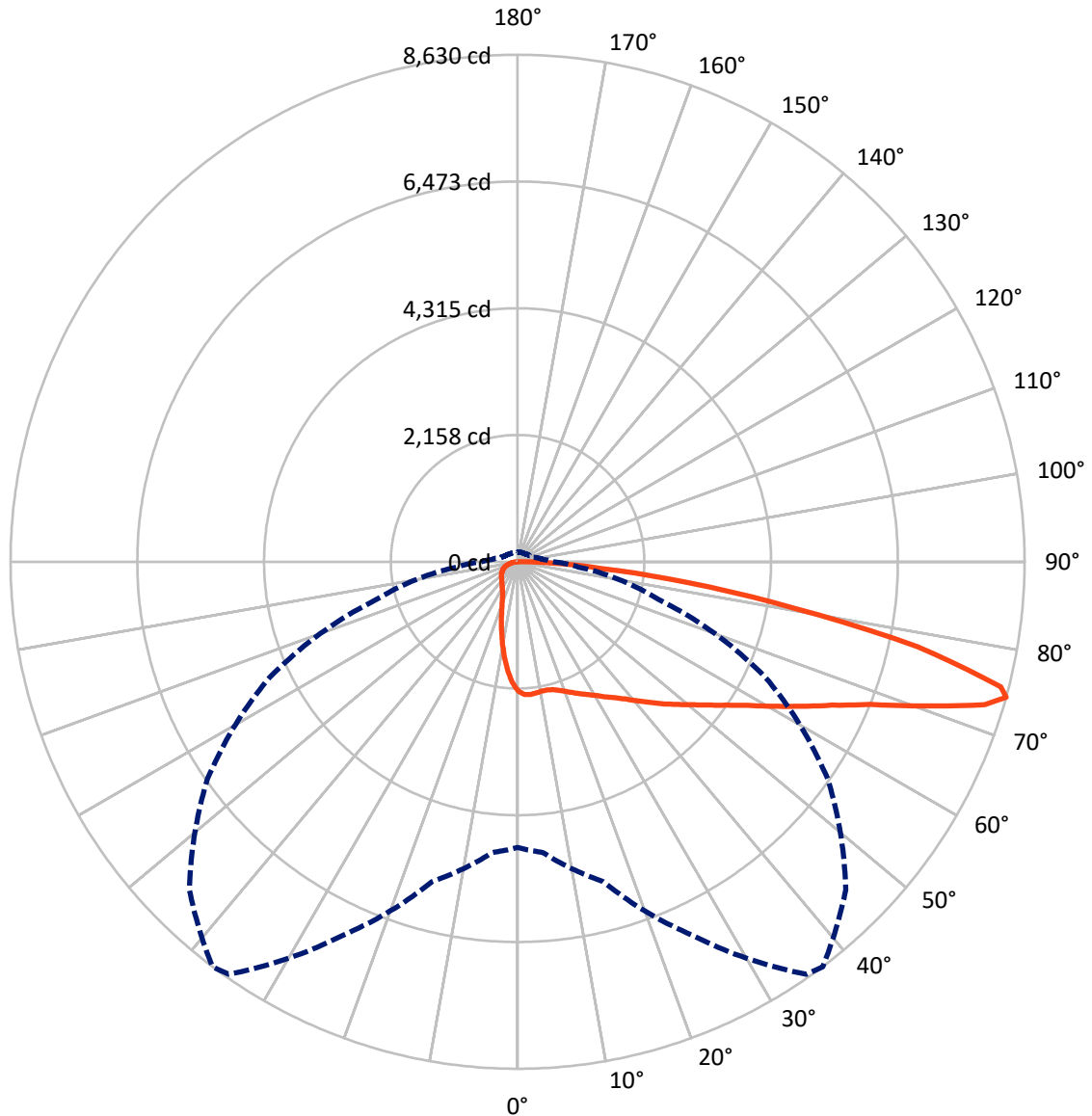
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P319966
CATALOG NUMBER: GAN-SA2C-730-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P319966
 CATALOG NUMBER: GAN-SA2C-730-U-SL4

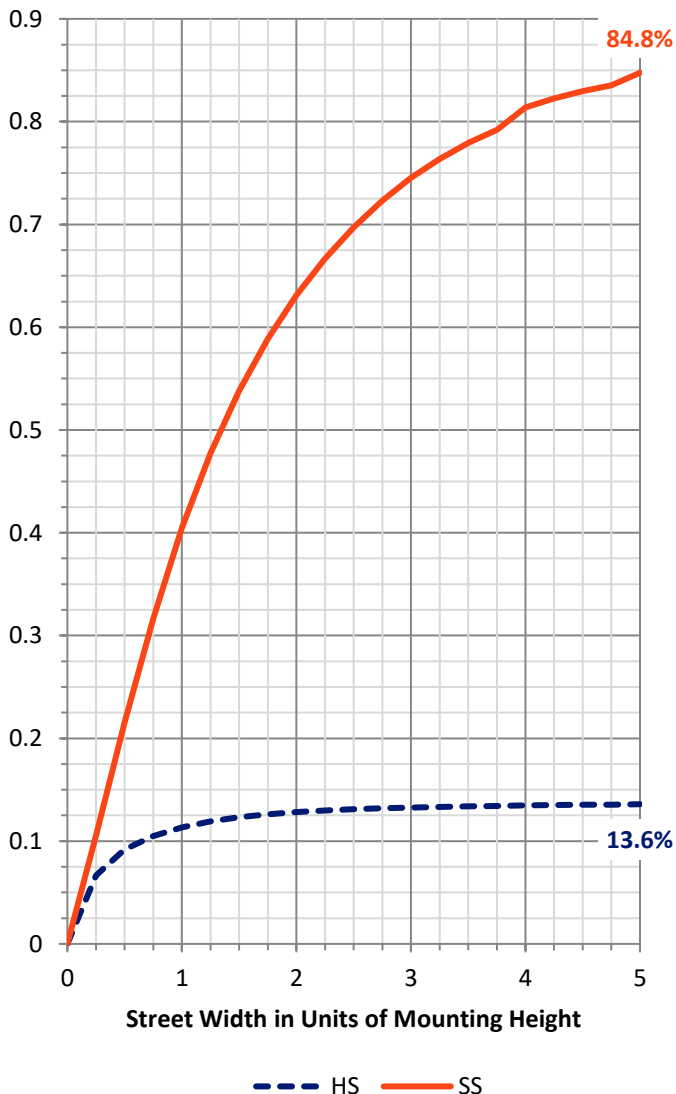
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1723.2 | 0.0 | 1723.2 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 10800.8 | 0.0 | 10800.8 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 12524.0 | 0.0 | 12524.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 194.3 | 1.6 |
| 10°-20° | 498.1 | 4.0 |
| 20°-30° | 767.5 | 6.1 |
| 30°-40° | 1116.0 | 8.9 |
| 40°-50° | 1642.6 | 13.1 |
| 50°-60° | 2306.7 | 18.4 |
| 60°-70° | 2919.6 | 23.3 |
| 70°-80° | 2570.8 | 20.5 |
| 80°-90° | 508.3 | 4.1 |
| 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° | 12524.0 | 100.0 |
| 0°-180° | 12524.0 | 100.0 |



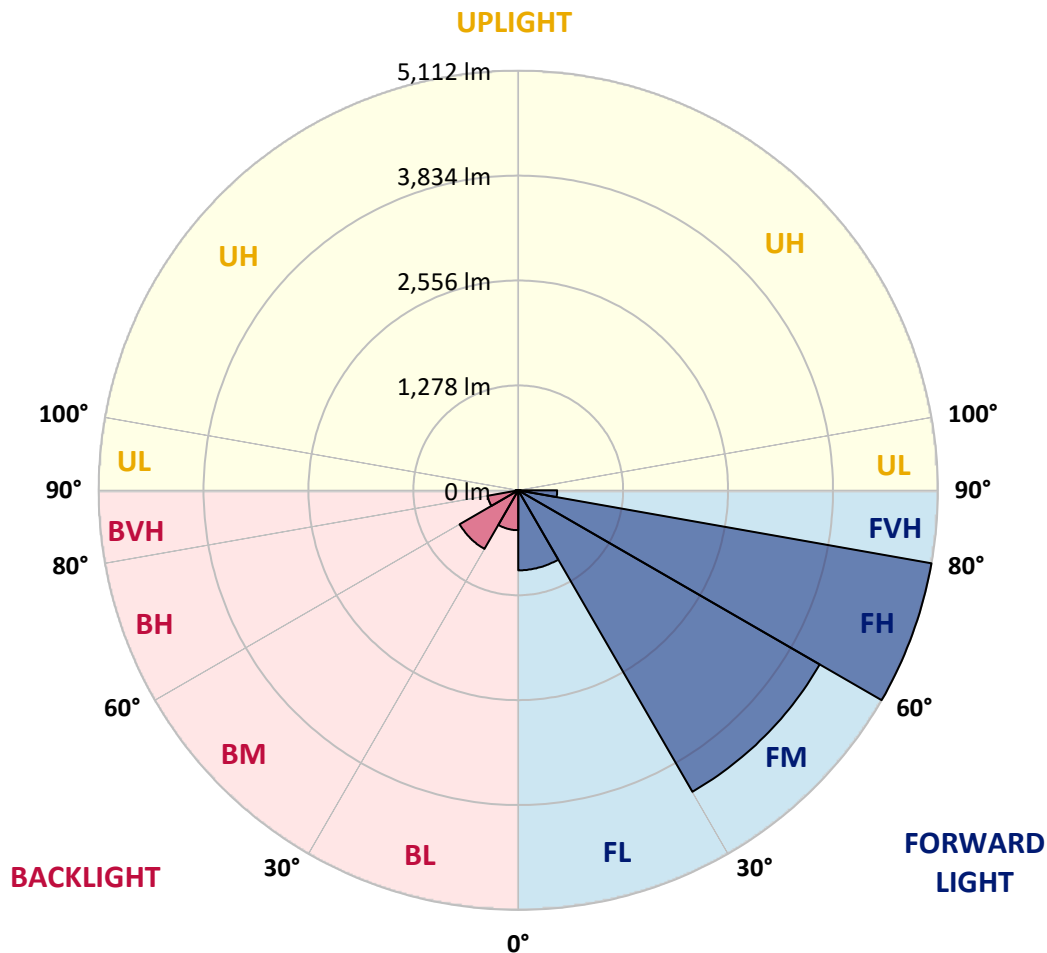
REPORT NUMBER: P319966
 CATALOG NUMBER: GAN-SA2C-730-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 974.5 | 7.8 | | | |
| FM (30°-60°) | 4240.7 | 33.9 | | | |
| FH (60°-80°) | 5111.7 | 40.8 | | | G3/7500 |
| FVH (80°-90°) | 473.9 | 3.8 | | | G3/500 |
| BL (0°-30°) | 485.4 | 3.9 | B1/500 | | |
| BM (30°-60°) | 824.6 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 378.8 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 34.4 | 0.3 | | | G1/100 |
| 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: P319966
 CATALOG NUMBER: GAN-SA2C-730-U-SL4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 |
| 2.5° | 2282.1 | 2282.6 | 2282.1 | 2278.6 | 2270.2 | 2263.1 | 2257.4 | 2249.0 | 2230.5 | 2216.4 | 2195.2 |
| 5° | 2303.7 | 2301.1 | 2299.3 | 2292.7 | 2279.5 | 2271.5 | 2260.5 | 2244.6 | 2214.2 | 2185.9 | 2151.5 |
| 7.5° | 2293.6 | 2290.5 | 2286.5 | 2278.6 | 2263.6 | 2257.0 | 2241.5 | 2220.8 | 2184.2 | 2147.1 | 2097.7 |
| 10° | 2262.3 | 2261.4 | 2259.6 | 2257.9 | 2245.1 | 2239.8 | 2225.7 | 2203.6 | 2167.4 | 2122.4 | 2064.6 |
| 12.5° | 2227.4 | 2229.6 | 2236.7 | 2245.9 | 2240.2 | 2237.6 | 2228.7 | 2213.7 | 2176.7 | 2128.2 | 2058.5 |
| 15° | 2205.4 | 2211.5 | 2230.5 | 2254.8 | 2259.6 | 2258.7 | 2256.5 | 2246.8 | 2207.6 | 2153.7 | 2072.6 |
| 17.5° | 2197.9 | 2208.0 | 2244.2 | 2284.3 | 2298.4 | 2301.5 | 2302.4 | 2285.6 | 2242.0 | 2185.1 | 2087.1 |
| 20° | 2211.5 | 2224.3 | 2277.3 | 2332.4 | 2354.9 | 2356.7 | 2352.7 | 2323.6 | 2274.6 | 2212.0 | 2095.1 |
| 22.5° | 2253.0 | 2264.5 | 2330.6 | 2392.8 | 2418.4 | 2421.1 | 2409.2 | 2365.1 | 2309.0 | 2243.7 | 2106.1 |
| 25° | 2332.9 | 2347.0 | 2413.1 | 2475.3 | 2488.6 | 2489.0 | 2471.8 | 2417.1 | 2354.0 | 2288.3 | 2129.9 |
| 27.5° | 2437.0 | 2451.1 | 2510.6 | 2571.5 | 2564.5 | 2560.5 | 2537.1 | 2482.4 | 2412.7 | 2349.6 | 2172.3 |
| 30° | 2553.0 | 2568.4 | 2624.9 | 2668.1 | 2651.4 | 2643.4 | 2624.5 | 2553.9 | 2494.3 | 2433.4 | 2237.1 |
| 32.5° | 2673.0 | 2687.1 | 2736.5 | 2766.1 | 2744.9 | 2741.4 | 2712.7 | 2648.3 | 2600.6 | 2561.4 | 2342.1 |
| 35° | 2796.1 | 2806.2 | 2854.7 | 2871.5 | 2843.3 | 2842.4 | 2834.5 | 2775.3 | 2745.3 | 2763.9 | 2494.8 |
| 37.5° | 2921.8 | 2924.4 | 2965.9 | 2966.8 | 2958.4 | 2961.9 | 2970.3 | 2933.3 | 2941.7 | 2999.4 | 2693.3 |
| 40° | 3033.9 | 3040.9 | 3070.9 | 3080.2 | 3094.7 | 3107.1 | 3149.0 | 3124.7 | 3189.6 | 3291.9 | 2940.3 |
| 42.5° | 3116.8 | 3130.5 | 3178.6 | 3202.4 | 3249.6 | 3269.0 | 3328.1 | 3350.6 | 3481.2 | 3634.7 | 3234.1 |
| 45° | 3186.9 | 3208.1 | 3285.3 | 3334.3 | 3414.1 | 3448.1 | 3532.8 | 3608.2 | 3810.7 | 4006.6 | 3543.4 |
| 47.5° | 3262.8 | 3289.7 | 3386.3 | 3479.9 | 3588.4 | 3626.8 | 3780.7 | 3893.7 | 4162.3 | 4380.7 | 3835.0 |
| 50° | 3374.4 | 3395.2 | 3489.6 | 3636.5 | 3771.9 | 3821.3 | 4034.4 | 4196.3 | 4519.7 | 4737.2 | 4087.8 |
| 52.5° | 3530.2 | 3522.2 | 3602.1 | 3808.1 | 3989.8 | 4050.7 | 4305.3 | 4518.4 | 4881.9 | 5059.7 | 4301.3 |
| 55° | 3686.8 | 3673.5 | 3729.6 | 3987.6 | 4244.0 | 4307.9 | 4603.5 | 4841.7 | 5226.4 | 5349.9 | 4465.0 |
| 57.5° | 3861.0 | 3835.9 | 3883.1 | 4190.1 | 4533.4 | 4609.7 | 4937.5 | 5185.4 | 5565.2 | 5584.6 | 4569.1 |
| 60° | 4040.6 | 4006.6 | 4059.6 | 4441.2 | 4900.8 | 4990.8 | 5328.3 | 5520.7 | 5884.6 | 5772.6 | 4602.6 |
| 62.5° | 4197.6 | 4173.8 | 4255.4 | 4721.3 | 5315.1 | 5413.9 | 5712.1 | 5877.1 | 6199.6 | 5850.7 | 4481.7 |
| 65° | 4334.8 | 4338.8 | 4480.0 | 5036.3 | 5777.0 | 5882.4 | 6152.4 | 6316.5 | 6447.5 | 5804.3 | 4199.0 |
| 67.5° | 4498.5 | 4521.0 | 4761.9 | 5451.0 | 6358.4 | 6474.0 | 6793.0 | 6795.6 | 6586.1 | 5532.6 | 3642.2 |
| 70° | 4737.2 | 4783.5 | 5149.7 | 6026.2 | 7185.2 | 7344.0 | 7590.2 | 7077.1 | 6391.5 | 4795.8 | 2865.8 |
| 72.5° | 4948.9 | 5035.4 | 5562.1 | 6684.5 | 8192.8 | 8313.2 | 8056.5 | 6914.7 | 5578.5 | 3594.1 | 1785.4 |
| 74° | 4862.9 | 4970.1 | 5637.1 | 7008.7 | 8572.2 | 8630.0 | 7899.0 | 6440.9 | 4651.1 | 2489.0 | 1037.6 |
| 75° | 4677.6 | 4794.1 | 5527.7 | 7005.6 | 8524.1 | 8491.9 | 7518.7 | 5899.6 | 3830.6 | 1697.6 | 690.4 |
| 77.5° | 3775.0 | 3898.1 | 4657.8 | 6004.2 | 6989.3 | 6958.9 | 5775.7 | 3957.6 | 1677.7 | 556.7 | 350.7 |
| 80° | 2194.8 | 2288.7 | 2891.4 | 3812.9 | 4712.9 | 4768.1 | 3798.4 | 1958.3 | 660.0 | 312.8 | 237.8 |
| 82.5° | 975.0 | 1039.8 | 1396.7 | 1946.4 | 2844.2 | 2915.2 | 1989.2 | 1026.1 | 407.6 | 190.1 | 142.9 |
| 85° | 639.7 | 687.8 | 847.9 | 926.9 | 1354.4 | 1402.9 | 973.6 | 798.9 | 269.1 | 104.6 | 105.0 |
| 87.5° | 460.1 | 506.5 | 630.0 | 550.1 | 621.6 | 588.5 | 529.8 | 739.4 | 108.1 | 59.6 | 35.3 |
| 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: P319966
 CATALOG NUMBER: GAN-SA2C-730-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 | 2206.7 |
| 2.5° | 2185.9 | 2178.9 | 2163.0 | 2133.0 | 2116.2 | 2102.1 | 2078.7 | 2065.1 | 2058.9 | 2058.5 | 2061.1 |
| 5° | 2131.7 | 2115.4 | 2074.3 | 2024.0 | 1983.9 | 1947.3 | 1901.8 | 1874.5 | 1855.1 | 1843.6 | 1846.7 |
| 7.5° | 2068.6 | 2043.0 | 1978.6 | 1898.3 | 1833.9 | 1762.9 | 1692.7 | 1650.8 | 1618.2 | 1593.9 | 1598.3 |
| 10° | 2025.4 | 1990.1 | 1896.1 | 1780.5 | 1673.3 | 1570.1 | 1473.5 | 1415.7 | 1369.8 | 1334.5 | 1337.2 |
| 12.5° | 2010.8 | 1963.2 | 1833.0 | 1678.6 | 1528.2 | 1387.0 | 1260.8 | 1172.2 | 1125.0 | 1084.8 | 1087.9 |
| 15° | 2013.0 | 1949.0 | 1780.1 | 1586.9 | 1397.6 | 1219.8 | 1066.7 | 963.1 | 899.1 | 871.3 | 871.7 |
| 17.5° | 2014.8 | 1932.7 | 1724.5 | 1488.5 | 1268.3 | 1063.6 | 897.3 | 792.3 | 731.9 | 706.3 | 706.7 |
| 20° | 2009.0 | 1906.3 | 1655.7 | 1375.5 | 1133.3 | 920.3 | 759.2 | 670.1 | 624.2 | 604.4 | 604.4 |
| 22.5° | 2001.5 | 1874.9 | 1578.0 | 1262.2 | 1000.1 | 795.9 | 660.4 | 592.5 | 566.0 | 552.8 | 552.3 |
| 25° | 2005.1 | 1851.5 | 1498.6 | 1145.7 | 877.5 | 696.6 | 594.7 | 549.7 | 532.0 | 523.7 | 523.2 |
| 27.5° | 2024.0 | 1840.5 | 1425.4 | 1029.7 | 770.3 | 622.0 | 550.6 | 518.8 | 507.3 | 502.0 | 502.0 |
| 30° | 2058.5 | 1840.5 | 1349.1 | 930.8 | 681.2 | 566.9 | 516.6 | 495.0 | 487.0 | 483.5 | 483.5 |
| 32.5° | 2118.4 | 1850.7 | 1275.4 | 832.9 | 610.1 | 523.7 | 488.4 | 473.8 | 467.6 | 465.9 | 465.9 |
| 35° | 2221.7 | 1885.1 | 1203.5 | 740.3 | 552.8 | 488.4 | 461.5 | 453.1 | 448.7 | 448.2 | 449.5 |
| 37.5° | 2366.8 | 1955.2 | 1136.0 | 671.9 | 512.2 | 459.7 | 439.0 | 432.3 | 429.7 | 431.9 | 433.7 |
| 40° | 2549.5 | 2050.5 | 1074.7 | 610.1 | 481.3 | 436.7 | 418.2 | 413.8 | 412.5 | 415.6 | 418.2 |
| 42.5° | 2770.0 | 2179.3 | 1024.4 | 565.6 | 457.5 | 417.3 | 400.6 | 395.3 | 394.0 | 397.5 | 401.0 |
| 45° | 3008.7 | 2317.9 | 989.1 | 532.5 | 439.0 | 402.8 | 385.1 | 379.4 | 376.8 | 378.5 | 382.5 |
| 47.5° | 3225.8 | 2448.9 | 975.0 | 509.1 | 421.3 | 390.4 | 371.5 | 364.4 | 360.0 | 359.1 | 362.2 |
| 50° | 3408.8 | 2546.4 | 981.6 | 495.0 | 407.2 | 376.8 | 358.2 | 350.3 | 343.7 | 339.7 | 341.9 |
| 52.5° | 3542.1 | 2607.7 | 987.8 | 488.8 | 396.2 | 361.8 | 343.7 | 336.2 | 327.3 | 320.7 | 320.7 |
| 55° | 3638.7 | 2621.8 | 974.1 | 484.0 | 387.8 | 345.4 | 327.3 | 320.3 | 311.5 | 304.0 | 303.1 |
| 57.5° | 3676.6 | 2582.1 | 923.3 | 476.9 | 382.0 | 330.0 | 310.1 | 304.8 | 297.3 | 288.5 | 288.1 |
| 60° | 3625.4 | 2459.5 | 825.4 | 461.9 | 374.5 | 317.2 | 292.9 | 289.4 | 285.9 | 277.5 | 277.0 |
| 62.5° | 3419.9 | 2190.4 | 698.8 | 431.5 | 359.5 | 303.5 | 277.0 | 278.8 | 279.3 | 273.5 | 272.6 |
| 65° | 3047.1 | 1820.7 | 575.3 | 391.7 | 337.0 | 287.2 | 260.7 | 269.1 | 274.0 | 273.1 | 271.8 |
| 67.5° | 2505.3 | 1417.0 | 487.5 | 349.8 | 307.5 | 264.7 | 243.1 | 252.8 | 256.8 | 259.8 | 259.0 |
| 70° | 1859.5 | 999.2 | 403.2 | 305.7 | 271.8 | 238.2 | 220.1 | 225.0 | 222.3 | 225.9 | 227.2 |
| 72.5° | 1036.7 | 599.5 | 328.7 | 261.6 | 234.7 | 207.3 | 194.6 | 193.7 | 187.9 | 187.9 | 187.9 |
| 74° | 622.0 | 439.8 | 289.0 | 234.3 | 212.2 | 187.1 | 176.0 | 172.1 | 166.8 | 167.2 | 166.8 |
| 75° | 500.3 | 378.1 | 265.1 | 216.2 | 196.3 | 175.1 | 164.1 | 158.8 | 154.8 | 154.8 | 154.4 |
| 77.5° | 315.9 | 287.2 | 213.5 | 172.1 | 157.1 | 144.3 | 136.8 | 129.7 | 129.7 | 129.3 | 128.8 |
| 80° | 238.7 | 228.5 | 166.3 | 130.1 | 120.4 | 110.7 | 105.9 | 102.8 | 102.8 | 104.1 | 103.7 |
| 82.5° | 163.7 | 172.1 | 116.9 | 90.9 | 86.0 | 79.0 | 78.1 | 78.5 | 77.2 | 75.4 | 75.0 |
| 85° | 119.6 | 129.3 | 79.0 | 57.4 | 52.5 | 48.1 | 51.6 | 53.4 | 51.2 | 47.2 | 45.4 |
| 87.5° | 45.9 | 84.7 | 42.4 | 23.8 | 22.1 | 19.0 | 22.1 | 22.9 | 24.7 | 19.4 | 19.9 |
| 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)