

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: P319198

Luminaire Tested: **GAN-SA4B-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18190 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

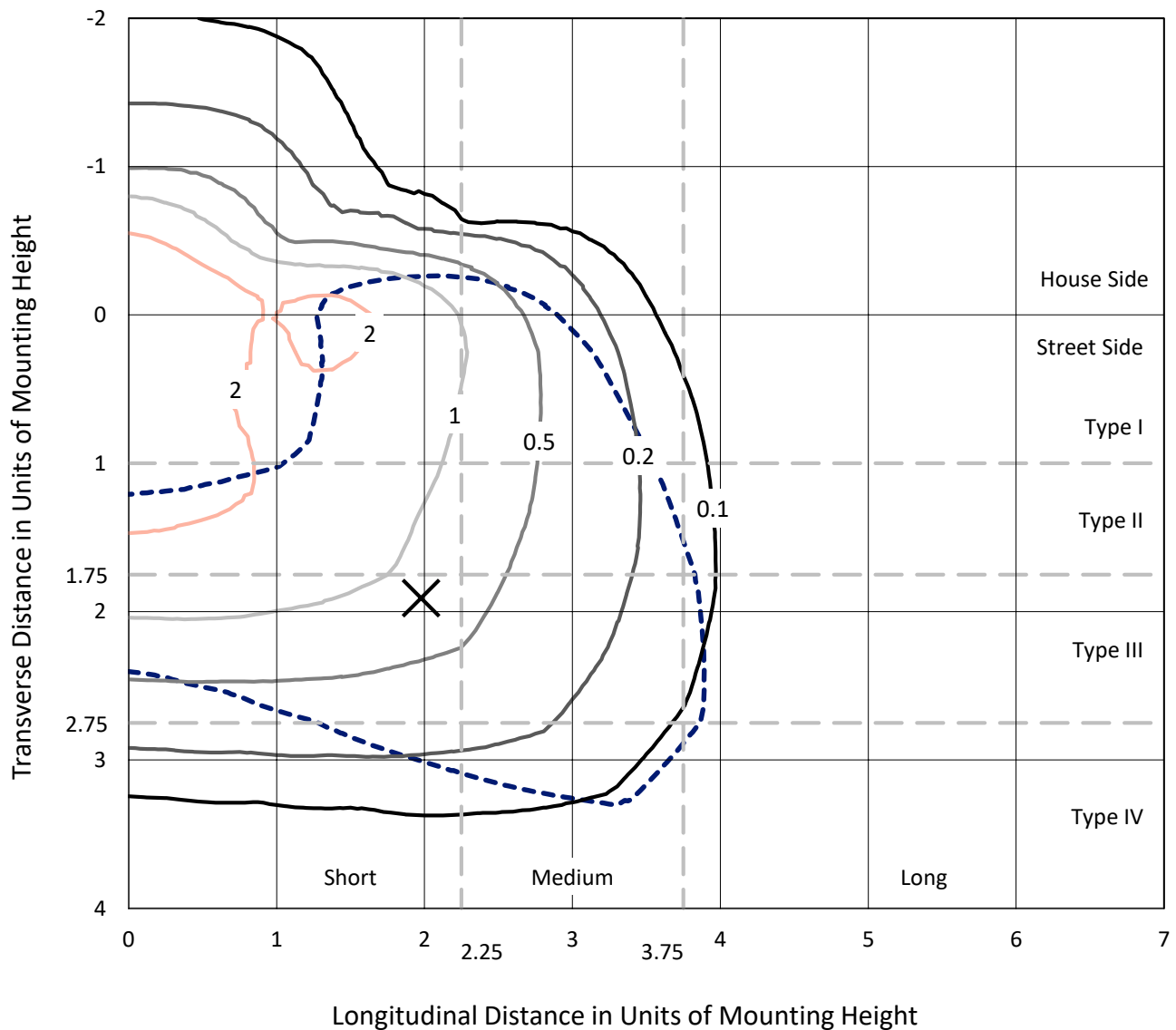
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319198
 CATALOG NUMBER: GAN-SA4B-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

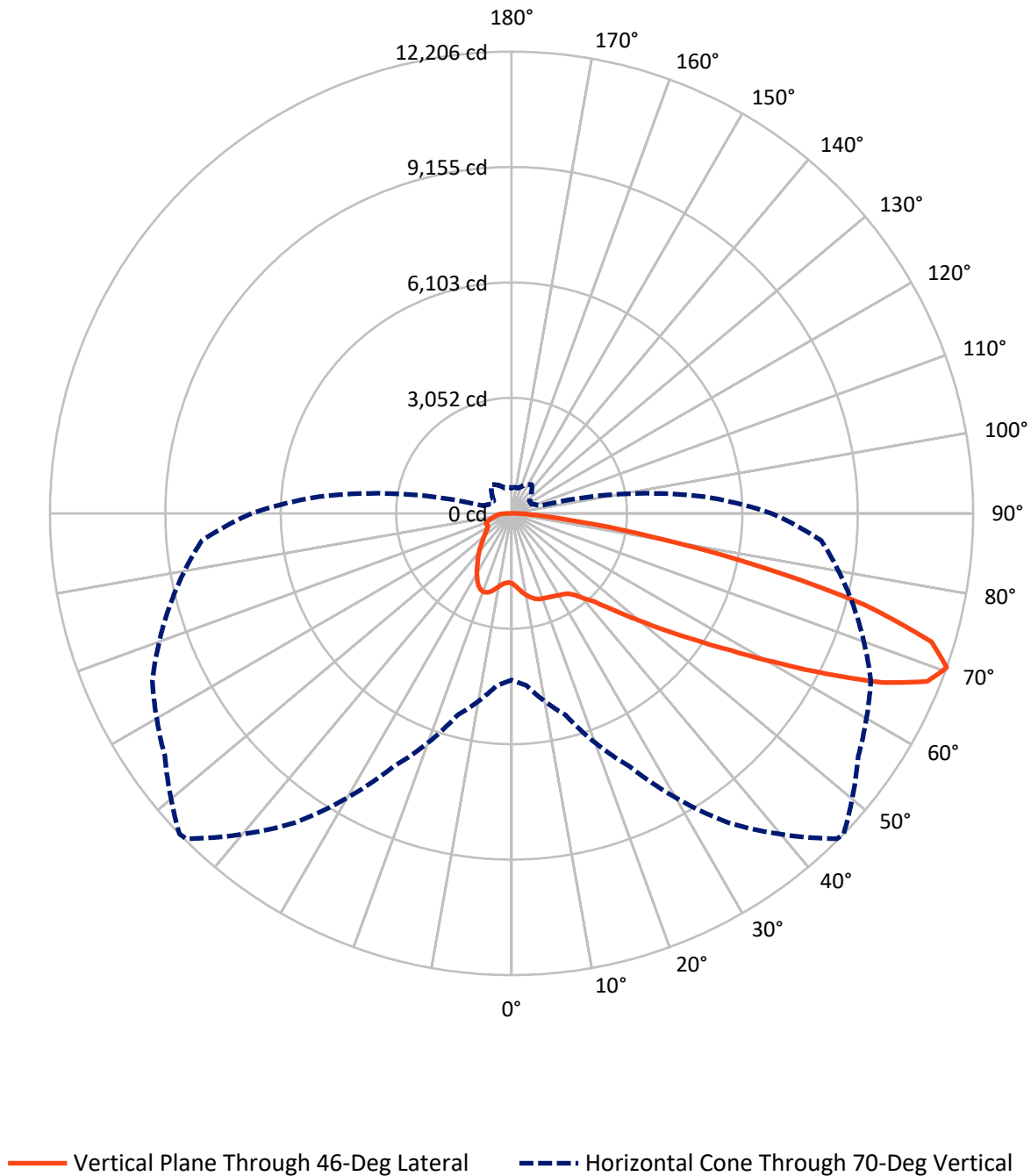
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P319198
CATALOG NUMBER: GAN-SA4B-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P319198

CATALOG NUMBER: GAN-SA4B-830-U-T4W

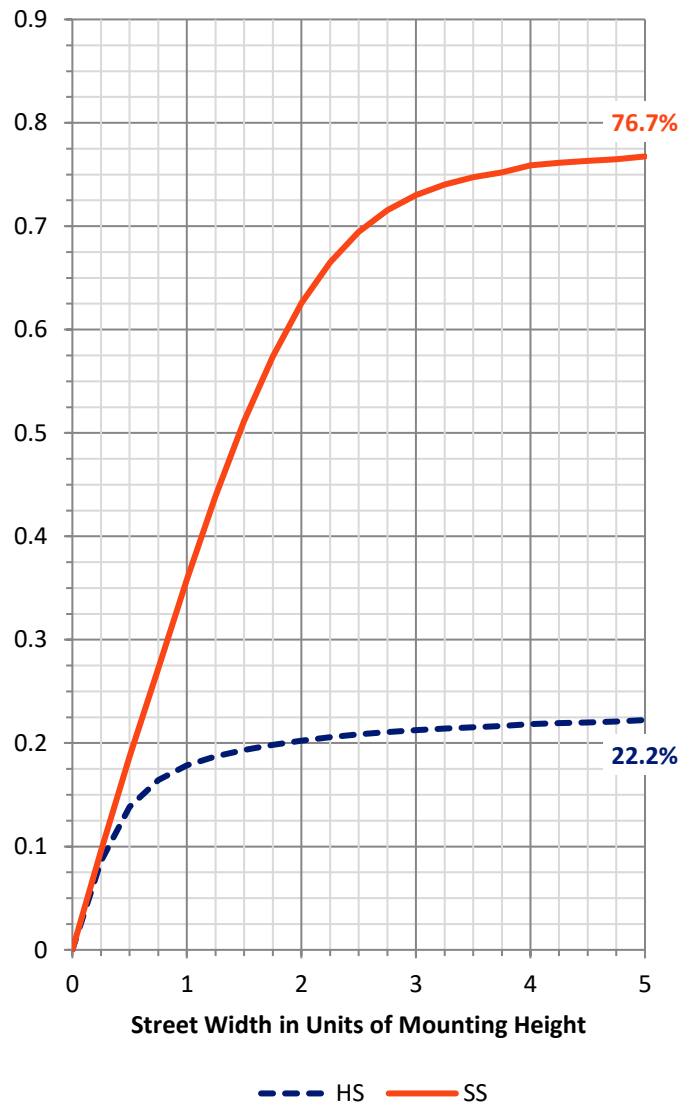
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4169.1	0.0	4169.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14020.9	0.0	14020.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	18190.0	0.0	18190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	1.0
10°-20°	629.4	3.5
20°-30°	1049.5	5.8
30°-40°	1489.3	8.2
40°-50°	2190.7	12.0
50°-60°	3709.9	20.4
60°-70°	5266.1	29.0
70°-80°	3199.2	17.6
80°-90°	466.9	2.6
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°	18190.0	100.0
0°-180°	18190.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319198

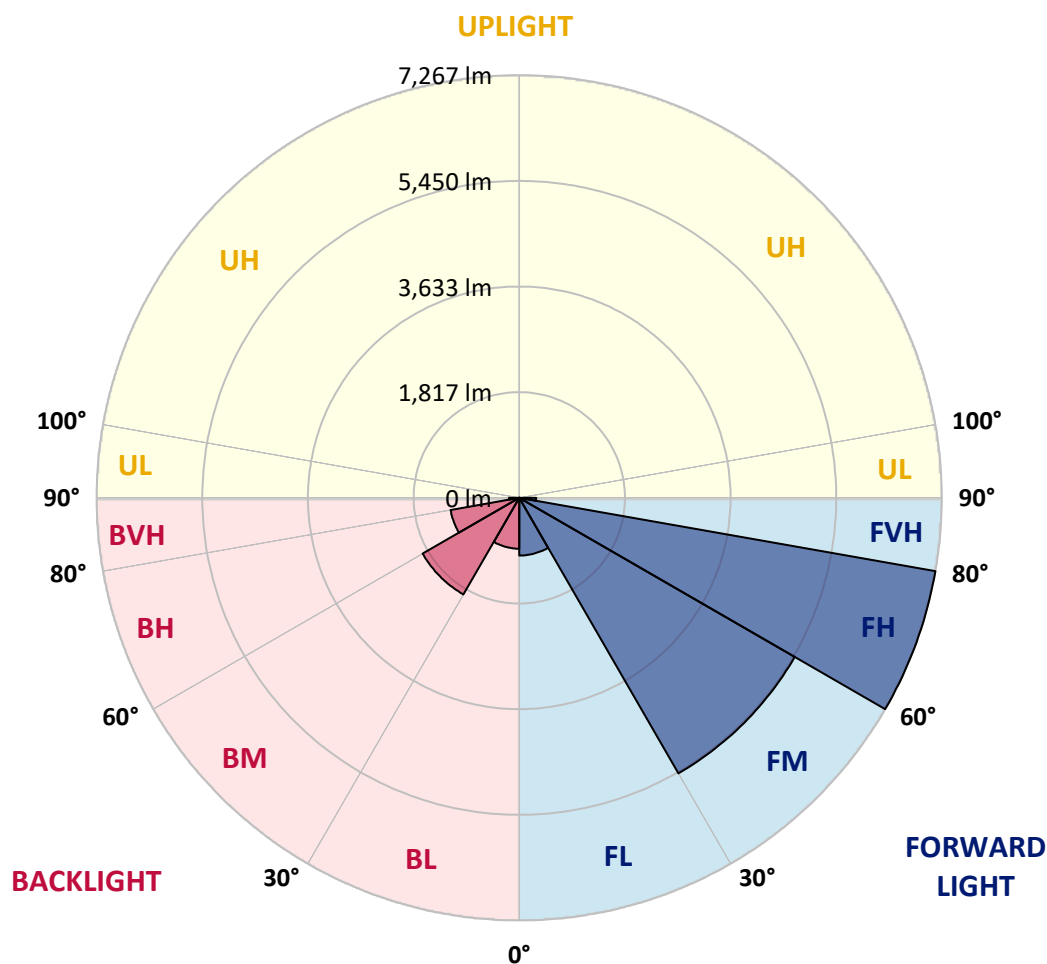
CATALOG NUMBER: GAN-SA4B-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	992.5	5.5			
FM	(30°-60°)	5470.7	30.1			
FH	(60°-80°)	7266.8	39.9			G3/7500
FVH	(80°-90°)	290.8	1.6			G3/500
BL	(0°-30°)	875.3	4.8	B2/1000		
BM	(30°-60°)	1919.1	10.6	B2/2500		
BH	(60°-80°)	1198.6	6.6	B3/2500		G3/2500
BVH	(80°-90°)	176.1	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P319198

CATALOG NUMBER: GAN-SA4B-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2
2.5°	1946.0	1947.2	1949.7	1943.5	1926.0	1921.1	1919.2	1901.1	1889.3	1871.9	1856.9
5°	2101.6	2102.8	2099.1	2081.7	2043.1	2014.4	2011.9	1970.9	1933.5	1893.7	1863.8
7.5°	2264.1	2265.9	2254.1	2221.1	2166.9	2117.1	2114.0	2058.0	2001.4	1941.0	1896.2
10°	2407.9	2400.4	2381.1	2335.0	2270.9	2209.9	2207.4	2148.9	2083.5	2010.7	1950.9
12.5°	2503.7	2497.5	2472.6	2416.6	2346.2	2290.2	2285.2	2231.1	2167.6	2087.9	2016.3
15°	2556.6	2561.0	2527.4	2463.9	2395.4	2348.1	2343.7	2305.1	2248.5	2168.2	2086.0
17.5°	2563.5	2567.2	2534.9	2472.0	2416.0	2383.6	2381.7	2356.2	2315.1	2237.9	2152.0
20°	2523.6	2526.1	2499.4	2447.7	2411.0	2401.0	2400.4	2389.2	2358.7	2290.2	2206.8
22.5°	2465.8	2467.6	2448.3	2411.0	2398.5	2414.1	2418.4	2414.1	2392.3	2328.2	2249.7
25°	2451.4	2450.2	2430.3	2392.3	2402.9	2435.9	2441.5	2443.3	2428.4	2372.4	2304.5
27.5°	2520.5	2516.2	2478.2	2417.2	2424.0	2463.9	2471.4	2489.4	2480.1	2430.9	2366.8
30°	2720.4	2712.9	2635.1	2511.8	2478.2	2498.7	2508.1	2536.7	2538.6	2497.5	2449.6
32.5°	3057.8	3048.4	2909.0	2688.6	2569.7	2534.2	2542.9	2585.9	2608.9	2577.2	2525.5
35°	3484.2	3473.6	3290.6	2989.3	2722.8	2602.1	2608.3	2642.5	2688.6	2643.8	2575.3
37.5°	3928.6	3903.1	3727.0	3342.9	2966.2	2747.1	2747.1	2751.5	2773.3	2679.9	2633.8
40°	4370.6	4345.1	4185.7	3758.7	3281.2	2975.6	2961.3	2864.8	2847.3	2767.0	2751.5
42.5°	4781.5	4774.0	4680.0	4228.7	3651.0	3200.3	3180.4	3016.7	3020.4	2970.6	2971.2
45°	5218.5	5218.5	5141.9	4703.0	4081.8	3561.4	3541.4	3300.5	3337.9	3314.9	3370.3
47.5°	5575.2	5586.4	5575.8	5197.3	4582.9	4020.2	3984.0	3694.0	3798.5	3877.6	4038.8
50°	5939.3	5956.8	5958.6	5739.5	5188.6	4565.5	4524.4	4216.2	4449.7	4676.3	4993.1
52.5°	6467.9	6507.1	6350.8	6280.5	5930.6	5212.9	5172.4	4887.9	5277.6	5595.7	6141.7
55°	6957.8	6923.5	6812.1	6855.7	6724.9	5949.9	5919.4	5669.8	6200.2	6613.5	7322.6
57.5°	7223.0	7220.5	7332.5	7519.3	7581.5	6858.8	6833.3	6590.5	7240.4	7551.0	8431.2
60°	7534.2	7538.6	7816.2	8240.1	8496.6	7990.5	7979.3	7795.0	8250.7	8426.3	9300.9
62.5°	7577.8	7656.2	8134.3	8863.9	9353.2	9312.7	9337.6	8880.1	9154.6	9124.7	9950.2
65°	7076.7	7180.0	8045.3	9052.5	10204.8	10758.8	10781.8	9971.3	9867.4	9721.7	10182.4
67.5°	6049.5	6202.7	7142.7	8642.3	10485.5	11827.6	11860.0	10817.3	10458.7	9924.0	9623.3
70°	4402.4	4572.3	5518.5	7381.1	9985.0	12169.4	12206.1	11191.4	10481.2	9348.2	8215.2
72.5°	2659.4	2792.6	3572.6	5433.9	8427.5	11546.9	11612.3	10717.1	9569.2	7918.3	6066.3
75°	1167.8	1255.0	1727.5	3131.2	6033.3	9553.6	9635.2	9173.3	7775.1	5754.5	3585.6
77.5°	497.4	522.3	708.4	1360.2	3410.7	6528.2	6640.3	6702.5	5275.1	3131.2	1515.2
80°	310.0	320.0	400.9	615.7	1596.1	3666.6	3787.3	3943.6	2619.5	1151.0	529.1
82.5°	188.6	199.8	266.4	372.3	831.0	1662.1	1720.0	1830.2	1016.6	497.4	273.9
85°	113.3	121.4	163.1	235.3	473.1	653.6	653.0	722.1	478.7	320.0	144.4
87.5°	54.2	60.4	87.2	122.0	238.4	245.3	229.7	260.2	290.7	209.8	72.8
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: P319198

CATALOG NUMBER: GAN-SA4B-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2	1853.2
2.5°	1852.0	1849.5	1841.4	1835.2	1833.9	1830.2	1827.1	1828.9	1831.4	1832.0	1832.0
5°	1851.3	1844.5	1833.9	1829.5	1835.2	1842.6	1852.0	1864.4	1871.9	1877.5	1881.2
7.5°	1881.2	1868.1	1856.3	1853.8	1865.0	1885.0	1906.1	1932.3	1950.3	1962.8	1965.3
10°	1931.0	1914.8	1903.0	1905.5	1925.4	1954.1	1983.9	2017.5	2044.9	2061.7	2063.0
12.5°	1988.3	1972.7	1961.5	1972.1	2005.1	2040.0	2071.1	2100.3	2125.2	2142.0	2142.0
15°	2054.3	2043.1	2030.0	2054.3	2099.1	2130.2	2143.3	2157.6	2171.3	2183.8	2181.3
17.5°	2117.8	2107.2	2100.3	2129.0	2175.7	2190.0	2181.3	2170.7	2170.7	2177.5	2178.8
20°	2172.6	2163.2	2167.6	2195.6	2219.9	2204.9	2172.6	2138.9	2125.2	2129.0	2132.7
22.5°	2220.5	2216.1	2229.2	2242.3	2224.8	2172.6	2112.8	2067.3	2050.5	2049.3	2050.5
25°	2276.5	2275.9	2292.1	2268.4	2191.2	2094.7	2014.4	1970.2	1960.9	1968.4	1980.8
27.5°	2346.2	2353.1	2361.2	2274.6	2122.8	1977.1	1895.5	1865.0	1874.4	1892.4	1904.3
30°	2435.2	2453.9	2436.5	2259.1	2024.4	1842.6	1764.8	1756.1	1781.6	1807.1	1819.6
32.5°	2521.8	2551.0	2508.7	2218.6	1897.4	1700.1	1639.7	1637.2	1668.3	1693.2	1710.7
35°	2591.5	2649.4	2562.9	2138.3	1750.5	1568.7	1524.5	1507.7	1518.9	1548.2	1568.1
37.5°	2682.4	2778.9	2600.2	2015.7	1591.1	1460.4	1408.7	1370.1	1360.2	1372.0	1382.0
40°	2848.6	2976.2	2617.6	1844.5	1435.5	1352.1	1299.8	1243.1	1203.9	1175.3	1175.9
42.5°	3120.0	3233.3	2606.4	1636.6	1291.7	1246.3	1187.1	1121.8	1058.3	993.5	988.5
45°	3560.7	3615.5	2572.8	1416.2	1165.3	1135.5	1080.1	1014.7	930.0	856.6	849.7
47.5°	4266.0	4144.7	2520.5	1223.8	1053.9	1041.5	990.4	915.1	825.4	766.3	761.3
50°	5227.8	4908.5	2495.0	1070.7	955.5	959.3	917.6	837.9	753.2	709.7	704.7
52.5°	6378.2	5798.0	2544.2	952.4	876.5	889.6	858.4	783.7	712.8	678.5	673.6
55°	7571.6	6719.3	2597.1	866.5	801.8	827.3	816.7	755.1	691.0	659.2	654.9
57.5°	8593.1	7407.2	2491.3	796.8	735.2	775.0	784.4	737.0	679.8	651.1	646.2
60°	9236.1	7684.2	2213.6	731.4	682.3	733.3	765.7	732.1	684.1	681.6	677.9
62.5°	9541.2	7660.0	1797.2	679.8	649.3	715.3	779.4	760.1	733.9	756.3	758.2
65°	9404.2	7293.9	1338.4	645.5	625.6	722.1	820.5	813.0	748.3	770.7	773.8
67.5°	8502.8	6420.5	991.0	615.7	599.5	741.4	895.2	830.4	720.2	736.4	726.5
70°	6872.5	5090.2	764.4	582.0	572.7	738.9	928.8	819.8	689.7	693.5	666.7
72.5°	4739.1	3471.1	621.9	550.9	534.1	673.6	905.1	793.7	664.2	635.6	600.1
75°	2577.2	1863.2	528.5	518.5	466.3	591.4	861.6	775.0	641.2	603.2	583.3
77.5°	1014.1	773.2	458.8	474.4	407.7	522.3	813.0	739.5	609.4	559.6	549.7
80°	414.0	394.7	380.4	410.2	350.5	456.9	754.5	697.8	571.5	519.2	499.3
82.5°	234.7	245.3	295.7	323.7	284.5	420.8	726.5	664.2	526.0	465.0	441.4
85°	120.1	143.8	206.0	232.2	209.2	357.9	669.2	581.4	422.1	356.1	357.9
87.5°	57.9	80.3	130.1	145.7	135.7	259.0	499.9	421.4	328.7	260.2	252.1
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)