

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: P318574

Luminaire Tested: **GAN-SA0C-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55644 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

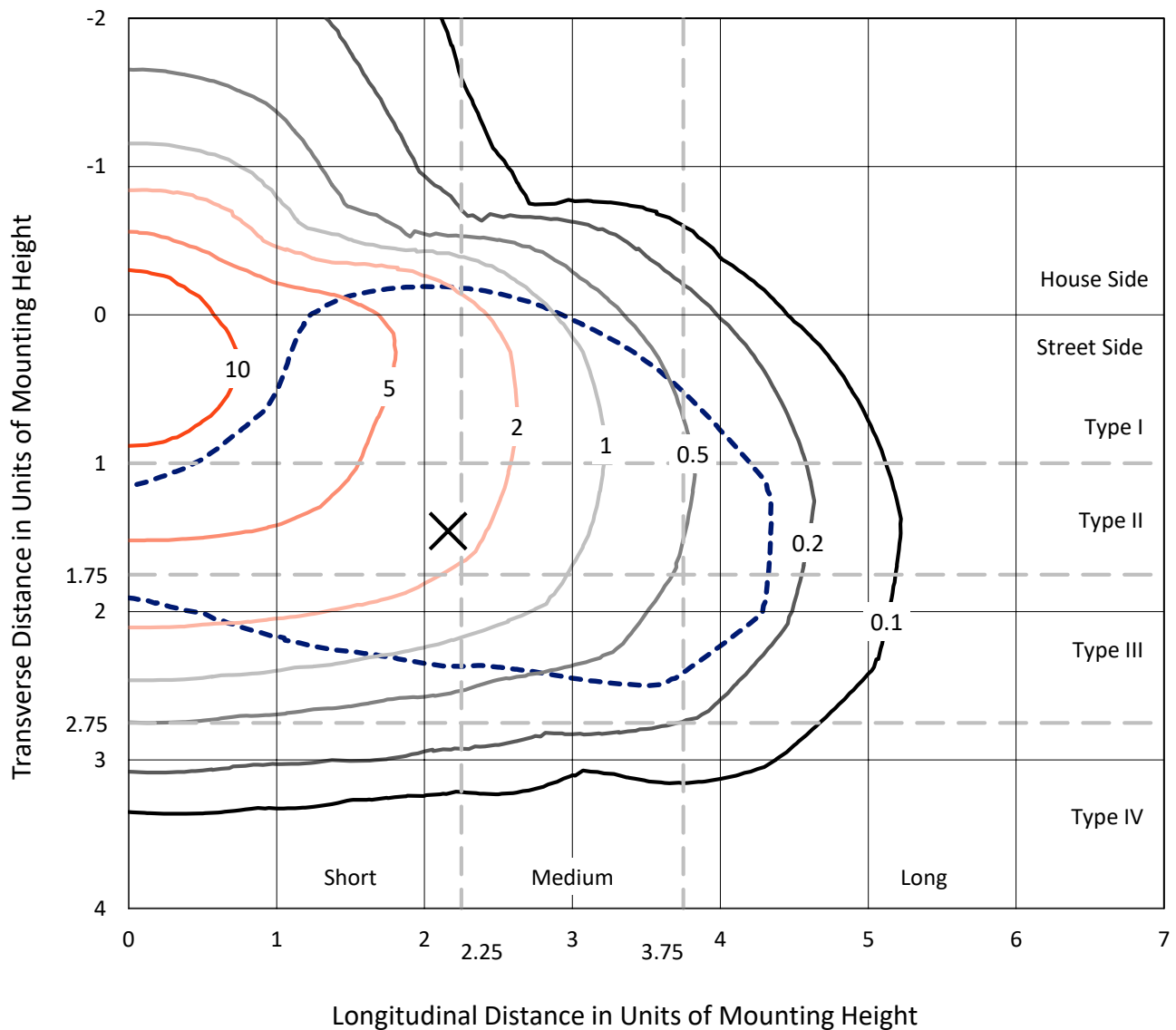
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318574
CATALOG NUMBER: GAN-SA0C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

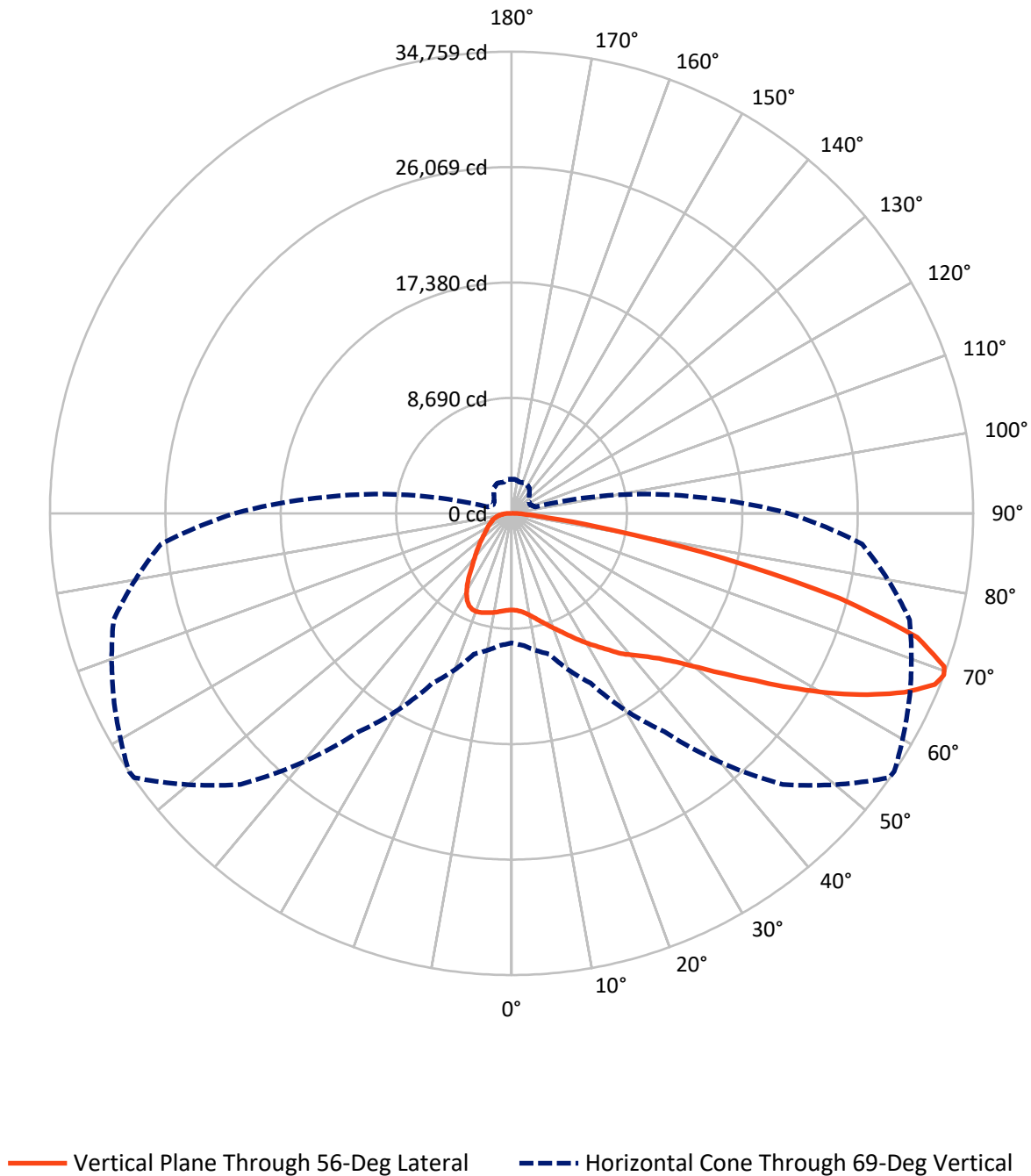
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
Type III - Short - N/A

REPORT NUMBER: P318574
CATALOG NUMBER: GAN-SA0C-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318574

CATALOG NUMBER: GAN-SA0C-830-U-T3

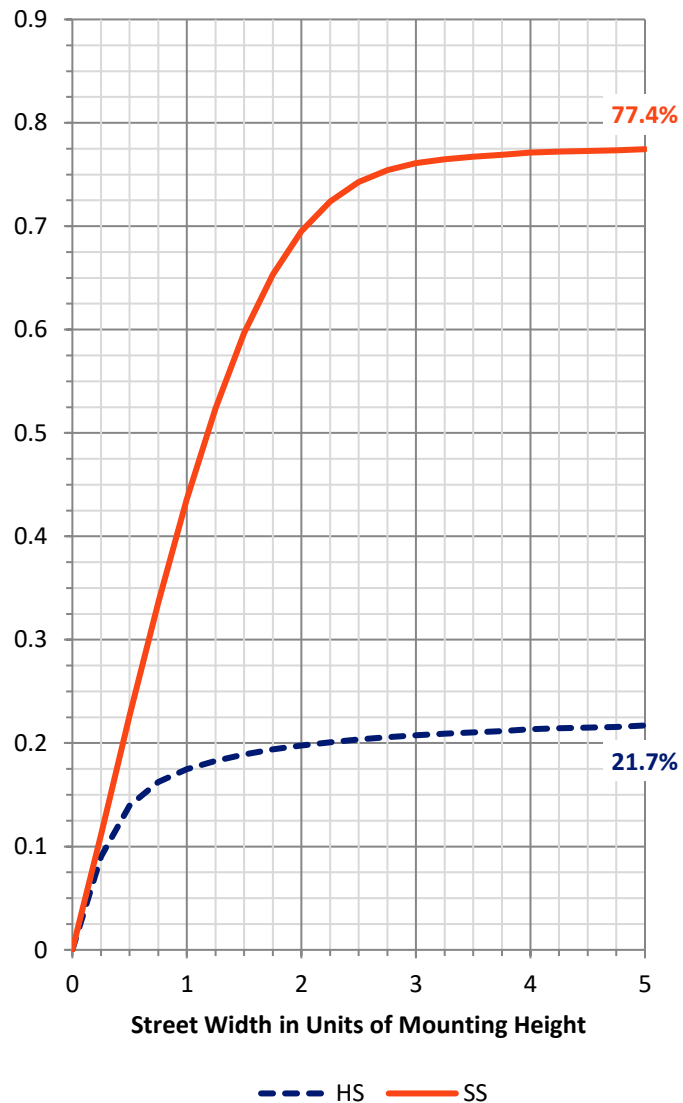
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12391.8	0.0	12391.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	43252.2	0.0	43252.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	55644.0	0.0	55644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.5	1.3
10°-20°	2297.5	4.1
20°-30°	4010.5	7.2
30°-40°	5761.0	10.4
40°-50°	7972.9	14.3
50°-60°	11681.4	21.0
60°-70°	14241.8	25.6
70°-80°	7873.8	14.2
80°-90°	1090.5	2.0
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°	55644.0	100.0
0°-180°	55644.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318574

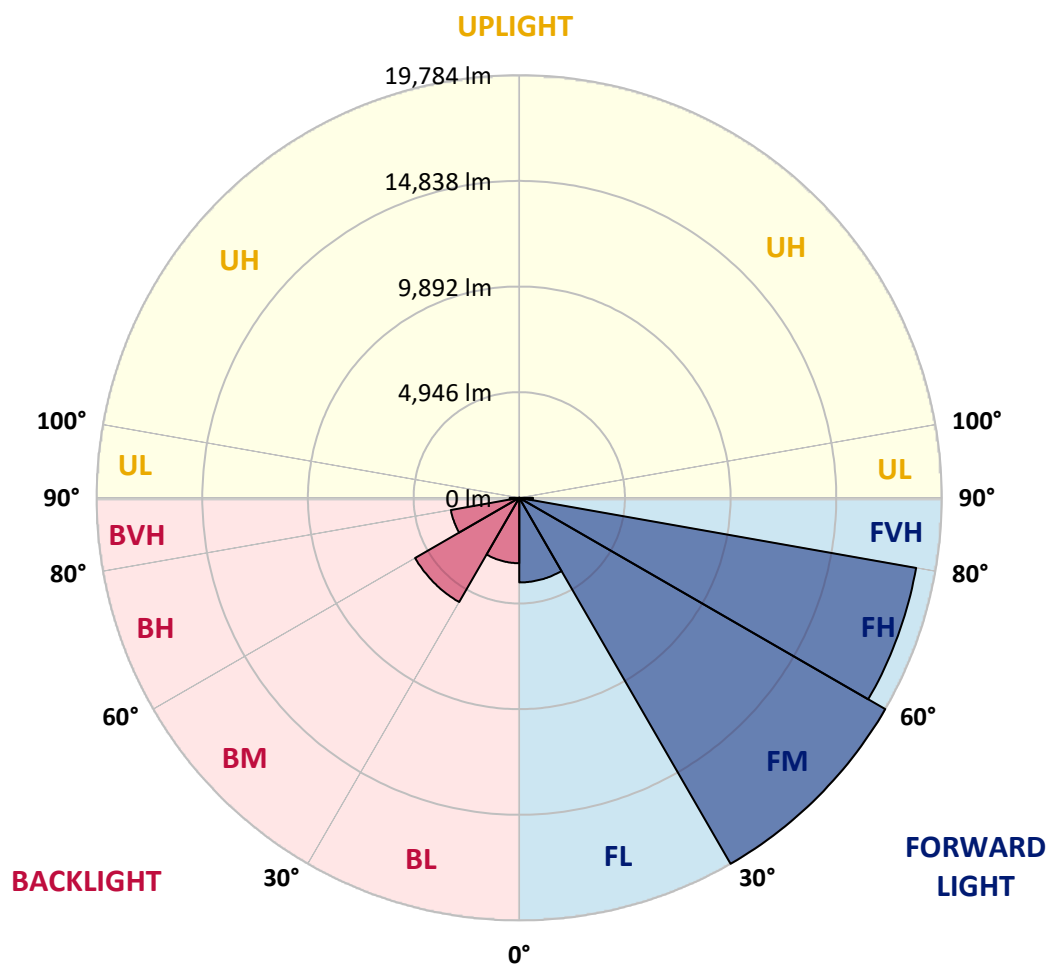
CATALOG NUMBER: GAN-SA0C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3960.2	7.1			
FM	(30°-60°)	19783.5	35.6			
FH	(60°-80°)	18866.1	33.9			G5
FVH	(80°-90°)	642.4	1.2			G4/750
BL	(0°-30°)	3062.3	5.5	B4/5000		
BM	(30°-60°)	5631.8	10.1	B4/8500		
BH	(60°-80°)	3249.5	5.8	B4/5000		G4/5000
BVH	(80°-90°)	448.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P318574

CATALOG NUMBER: GAN-SA0C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6
2.5°	7320.6	7328.3	7322.5	7337.9	7320.6	7332.1	7322.5	7322.5	7316.8	7299.5	7280.4
5°	7435.6	7451.0	7441.4	7456.7	7435.6	7439.5	7422.2	7422.2	7405.0	7368.5	7330.2
7.5°	7615.8	7633.1	7625.4	7640.7	7612.0	7612.0	7589.0	7587.1	7552.6	7493.1	7449.1
10°	7830.5	7853.5	7845.9	7868.9	7845.9	7853.5	7830.5	7830.5	7784.5	7700.2	7644.6
12.5°	8143.0	8171.7	8150.6	8148.7	8139.1	8154.5	8135.3	8131.5	8089.3	7974.3	7897.6
15°	8560.9	8591.5	8547.4	8543.6	8489.9	8484.2	8484.2	8478.4	8451.6	8313.6	8187.1
17.5°	9042.0	9051.6	9013.2	8951.9	8882.9	8838.8	8833.1	8848.4	8848.4	8687.4	8486.1
20°	9513.5	9530.8	9500.1	9431.1	9342.9	9277.8	9231.8	9262.4	9260.5	9068.8	8783.2
22.5°	10027.3	10067.5	10021.5	9933.3	9829.8	9757.0	9676.5	9703.3	9705.2	9469.5	9074.6
25°	10692.4	10656.0	10627.3	10502.7	10355.1	10280.3	10205.5	10232.4	10224.7	9900.8	9375.5
27.5°	11280.9	11288.6	11250.3	11118.0	10947.4	10782.5	10778.7	10796.0	10767.2	10349.3	9659.2
30°	11965.3	11969.1	11915.4	11796.6	11610.6	11397.9	11348.0	11376.8	11315.4	10774.9	9958.3
32.5°	12645.8	12664.9	12605.5	12461.7	12312.2	12053.4	11953.8	11972.9	11819.6	11210.0	10266.9
35°	13241.9	13268.7	13249.6	13153.7	12990.8	12768.4	12649.6	12638.1	12448.3	11742.9	10675.2
37.5°	13849.6	13874.5	13853.4	13772.9	13707.7	13471.9	13408.7	13408.7	13079.0	12287.3	11194.7
40°	14474.5	14512.8	14487.9	14376.7	14321.1	14213.8	14062.3	14025.9	13669.4	12941.0	12041.9
42.5°	15055.3	15105.1	15204.8	15139.6	15026.5	15041.9	14737.1	14717.9	14457.2	13907.1	13105.8
45°	15879.6	15952.4	16121.1	16071.2	16048.2	15963.9	15601.6	15584.4	15484.7	15206.7	14426.5
47.5°	16778.6	16878.3	17183.0	17192.6	17439.9	17280.8	16788.2	16728.7	16751.7	16763.2	16038.7
50°	17606.7	17715.9	18216.3	18452.0	19034.8	19069.3	18281.4	18227.8	18317.8	18582.4	17917.2
52.5°	18268.0	18406.0	19030.9	19759.4	20758.1	21041.8	20119.7	20079.5	20146.6	20602.8	20041.1
55°	18753.0	18902.5	19583.0	20909.5	22504.3	23004.7	22236.0	22197.6	22239.8	22820.6	22351.0
57.5°	18866.1	18902.5	19889.7	21683.9	23978.4	25180.3	24825.7	24749.0	24542.0	25048.1	24900.5
60°	18335.1	18480.8	19636.7	21956.1	25119.0	27325.3	27532.4	27436.5	26855.7	27269.7	27150.9
62.5°	17257.8	17518.5	18691.6	21542.1	25565.6	29077.4	30187.3	30072.2	29071.6	29340.0	28768.8
65°	15498.1	15609.3	16841.8	20114.0	24998.2	30198.8	32554.6	32497.1	31237.7	30817.9	29067.8
67.5°	12350.6	12559.5	13606.1	17129.4	22676.9	30066.5	34385.3	34379.5	32652.4	31366.1	28007.7
69°	9757.0	9973.6	10970.4	14110.3	20066.1	28856.9	34692.0	34759.1	33051.1	31032.6	26493.4
70°	7778.8	8029.9	8714.2	11884.7	17748.5	27262.1	34437.0	34557.8	32974.4	30482.5	25096.0
72.5°	3310.5	3513.7	4000.6	6126.4	10817.0	20357.4	31486.9	31943.1	31197.5	27898.5	20740.8
75°	1445.3	1508.6	1729.0	2497.7	4801.8	11079.7	24666.6	25510.0	26675.5	23581.6	15450.2
77.5°	1058.1	1085.0	1205.7	1466.4	2154.6	4184.6	15862.3	16353.0	19238.0	17160.0	9477.1
80°	818.5	837.7	931.6	1077.3	1407.0	1692.6	7234.4	7656.1	10817.0	8813.9	3946.9
82.5°	651.7	665.2	730.3	793.6	971.9	1025.5	2401.9	2664.5	3992.9	2434.5	1044.7
85°	605.7	621.1	644.1	578.9	623.0	601.9	1039.0	1086.9	1205.7	956.5	437.1
87.5°	274.1	324.0	638.3	450.5	331.6	264.5	425.6	444.7	500.3	502.2	193.6
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: P318574

CATALOG NUMBER: GAN-SA0C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6	7274.6
2.5°	7291.9	7286.1	7295.7	7272.7	7301.5	7299.5	7290.0	7293.8	7313.0	7311.0	7313.0
5°	7336.0	7332.1	7343.6	7326.4	7360.9	7372.4	7374.3	7391.5	7412.6	7418.4	7418.4
7.5°	7447.1	7447.1	7452.9	7429.9	7452.9	7451.0	7441.4	7458.6	7479.7	7481.6	7479.7
10°	7638.8	7640.7	7631.2	7571.7	7552.6	7500.8	7452.9	7454.8	7481.6	7502.7	7508.5
12.5°	7880.4	7872.7	7830.5	7721.3	7640.7	7535.3	7485.5	7483.6	7510.4	7527.6	7533.4
15°	8156.4	8135.3	8026.0	7847.8	7705.9	7602.4	7521.9	7502.7	7487.4	7468.2	7470.1
17.5°	8417.1	8369.2	8187.1	7939.8	7790.3	7652.2	7497.0	7372.4	7286.1	7236.3	7220.9
20°	8681.6	8587.7	8325.1	8026.0	7836.3	7585.2	7286.1	7033.1	6875.9	6803.1	6789.6
22.5°	8923.1	8771.7	8453.5	8116.1	7799.8	7359.0	6889.3	6521.3	6302.7	6205.0	6212.7
25°	9158.9	8948.1	8587.7	8179.4	7615.8	6960.2	6337.3	5884.9	5631.8	5522.6	5518.7
27.5°	9365.9	9126.3	8733.4	8127.6	7272.7	6392.8	5683.6	5242.7	5031.8	4937.9	4922.6
30°	9603.6	9350.6	8927.0	7930.2	6770.5	5737.3	5045.3	4734.7	4585.2	4491.3	4474.0
32.5°	9893.1	9655.4	9086.1	7571.7	6128.3	5052.9	4546.9	4330.3	4194.2	4088.7	4069.6
35°	10314.8	10057.9	9126.3	7058.0	5422.9	4512.4	4180.7	3958.4	3774.4	3638.3	3624.8
37.5°	10843.9	10562.1	9034.3	6392.8	4738.6	4161.6	3876.0	3601.8	3362.2	3170.5	3139.9
40°	11606.8	11181.2	8779.4	5626.1	4234.4	3891.3	3578.8	3266.4	2969.3	2745.0	2700.9
42.5°	12523.1	11907.7	8388.3	4863.2	3864.5	3617.2	3283.6	2896.4	2612.7	2453.6	2430.6
45°	13688.5	12663.0	7845.9	4196.1	3500.2	3343.1	2965.4	2608.9	2432.5	2315.6	2296.4
47.5°	15018.9	13510.3	7276.5	3653.6	3191.6	3086.2	2710.5	2480.5	2340.5	2248.5	2231.3
50°	16654.0	14466.8	6672.7	3208.9	2881.1	2777.6	2589.7	2409.5	2298.4	2227.4	2210.2
52.5°	18498.0	15546.0	6237.6	2858.1	2624.2	2549.5	2526.5	2371.2	2281.1	2227.4	2210.2
55°	20483.9	16644.4	5767.9	2562.9	2401.9	2423.0	2484.3	2375.0	2313.7	2248.5	2223.6
57.5°	22471.8	17779.2	5244.6	2313.7	2225.5	2329.0	2455.5	2382.7	2330.9	2267.7	2244.7
60°	24043.6	18498.0	4433.8	2104.8	2085.6	2225.5	2386.5	2325.2	2258.1	2260.0	2256.2
62.5°	24777.8	18459.7	3538.6	1918.8	1945.6	2085.6	2275.4	2235.1	2179.5	2254.3	2260.0
65°	24365.6	17539.6	2754.6	1750.1	1796.1	1939.9	2160.3	2191.0	2210.2	2353.9	2373.1
67.5°	22636.6	15749.2	2133.5	1602.5	1660.0	1840.2	2171.8	2386.5	2411.5	2562.9	2561.0
69°	20848.1	14070.0	1853.6	1525.8	1592.9	1865.1	2321.4	2511.1	2417.2	2578.2	2555.2
70°	19349.1	12741.6	1704.1	1474.1	1562.3	1909.2	2421.0	2509.2	2388.5	2526.5	2488.1
72.5°	14901.9	9166.6	1445.3	1378.2	1458.8	1826.8	2449.8	2453.6	2321.4	2348.2	2283.0
75°	10220.9	5792.9	1261.3	1247.9	1301.6	1646.6	2357.8	2344.4	2146.9	2108.6	2054.9
77.5°	5635.7	2942.4	1071.5	1123.3	1159.7	1458.8	2143.1	2123.9	1961.0	1880.5	1861.3
80°	2173.8	1288.2	904.8	998.7	1021.7	1263.2	1878.6	1861.3	1725.2	1621.7	1592.9
82.5°	820.4	674.7	747.6	864.5	856.9	1042.8	1591.0	1581.4	1449.2	1297.7	1251.7
85°	379.5	404.5	592.3	713.1	657.5	772.5	1272.8	1290.1	1129.1	948.9	948.9
87.5°	161.0	226.2	419.8	538.6	442.8	521.4	933.5	891.4	818.5	567.4	532.9
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)