

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: P320153

Luminaire Tested: **GAN-SA9A-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320153
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-SA9A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 31459 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

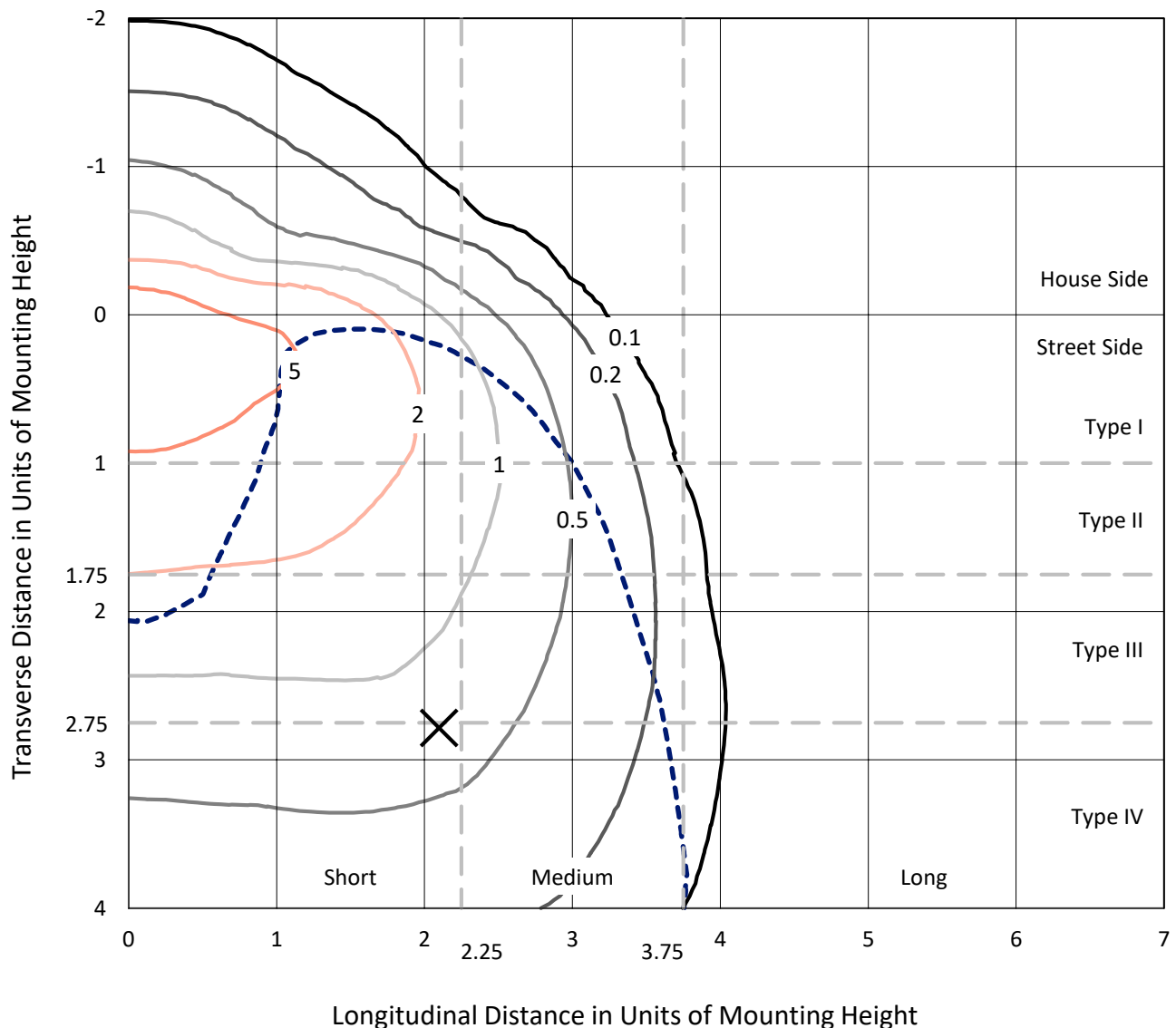
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320153
 CATALOG NUMBER: GAN-SA9A-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

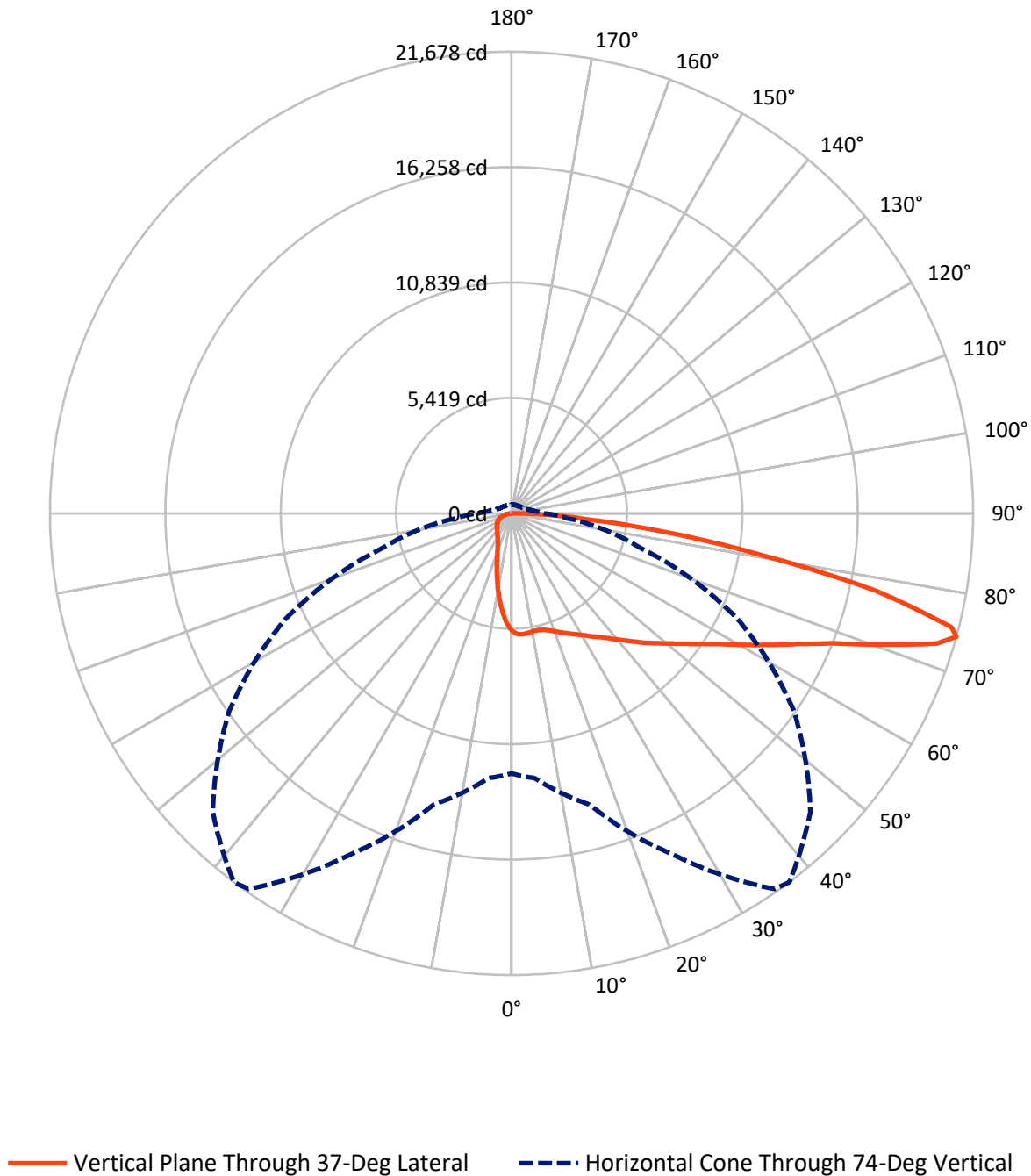
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

REPORT NUMBER: P320153
CATALOG NUMBER: GAN-SA9A-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P320153

CATALOG NUMBER: GAN-SA9A-830-U-SL4

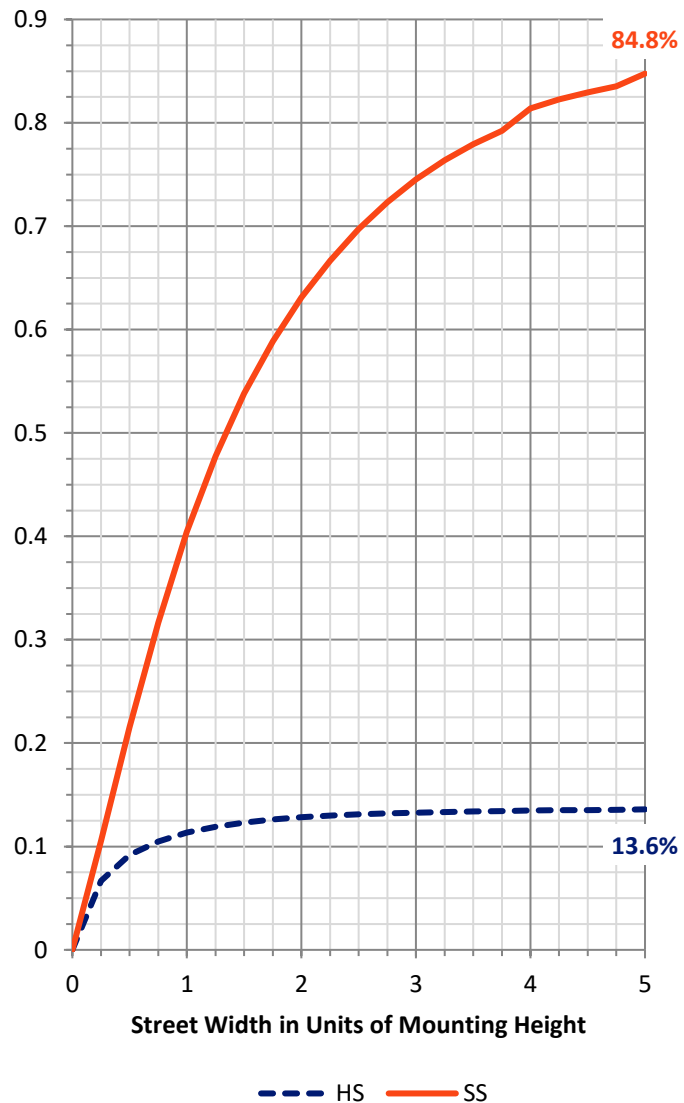
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.5	0.0	4328.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27130.5	0.0	27130.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	31459.0	0.0	31459.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	1.6
10°-20°	1251.2	4.0
20°-30°	1927.8	6.1
30°-40°	2803.3	8.9
40°-50°	4126.0	13.1
50°-60°	5794.3	18.4
60°-70°	7333.8	23.3
70°-80°	6457.7	20.5
80°-90°	1276.8	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°	31459.0	100.0
0°-180°	31459.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320153

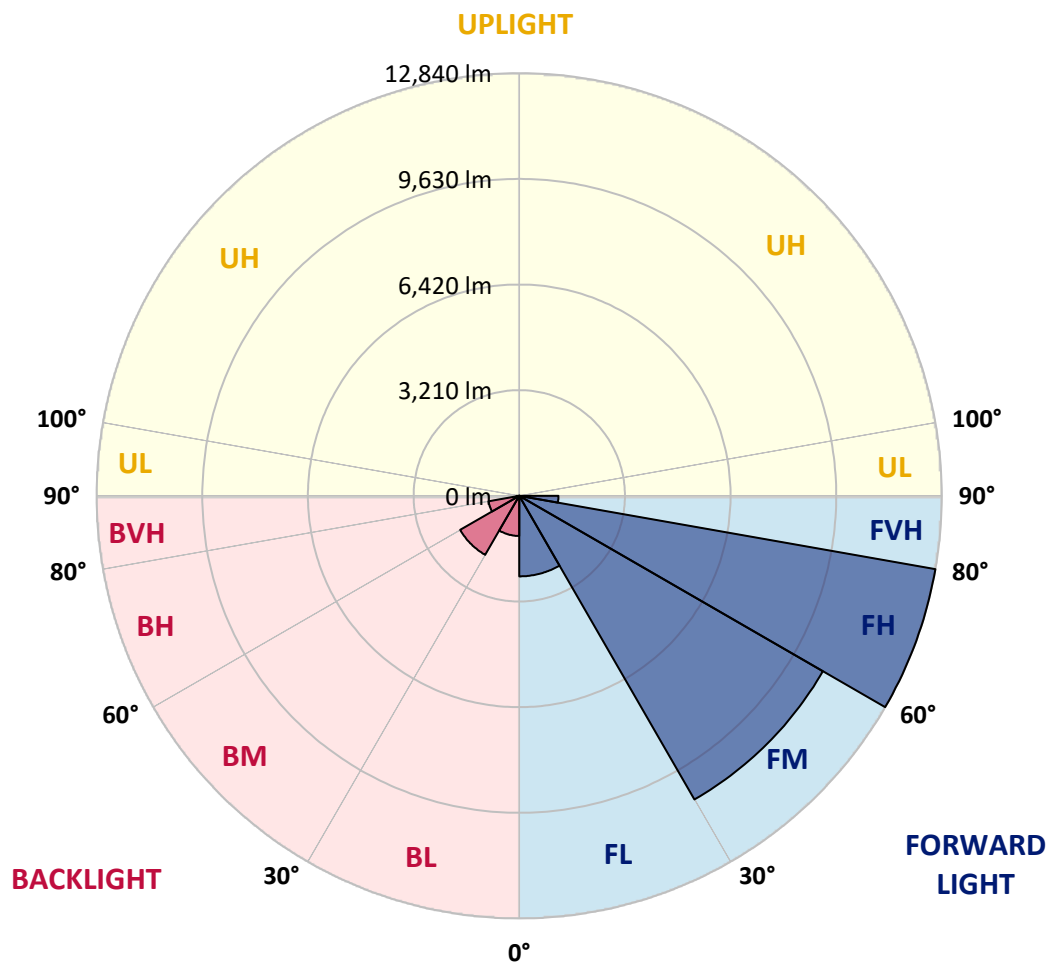
CATALOG NUMBER: GAN-SA9A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2447.9	7.8			
FM	(30°-60°)	10652.3	33.9			
FH	(60°-80°)	12840.0	40.8			G5
FVH	(80°-90°)	1190.4	3.8			G5
BL	(0°-30°)	1219.2	3.9	B3/2500		
BM	(30°-60°)	2071.4	6.6	B2/2500		
BH	(60°-80°)	951.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	86.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P320153

CATALOG NUMBER: GAN-SA9A-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0
2.5°	5732.4	5733.6	5732.4	5723.6	5702.5	5684.8	5670.4	5649.3	5602.8	5567.3	5514.1
5°	5786.7	5780.1	5775.7	5759.0	5725.8	5705.9	5678.1	5638.3	5561.8	5490.9	5404.4
7.5°	5761.3	5753.5	5743.5	5723.6	5685.9	5669.3	5630.5	5578.4	5486.4	5393.4	5269.2
10°	5682.6	5680.4	5675.9	5671.5	5639.4	5626.1	5590.6	5535.2	5444.3	5331.3	5186.1
12.5°	5595.0	5600.6	5618.3	5641.6	5627.2	5620.5	5598.4	5560.7	5467.6	5345.7	5170.6
15°	5539.6	5555.1	5602.8	5663.7	5675.9	5673.7	5668.2	5643.8	5545.2	5410.0	5206.1
17.5°	5520.8	5546.3	5637.1	5738.0	5773.4	5781.2	5783.4	5741.3	5631.6	5488.7	5242.6
20°	5555.1	5587.3	5720.3	5858.8	5915.3	5919.7	5909.8	5836.6	5713.6	5556.3	5262.6
22.5°	5659.3	5688.1	5854.3	6010.6	6074.9	6081.5	6051.6	5940.8	5800.0	5636.0	5290.3
25°	5859.9	5895.3	6061.6	6217.8	6251.1	6252.2	6209.0	6071.5	5913.1	5748.0	5350.1
27.5°	6121.4	6156.9	6306.5	6459.4	6441.7	6431.7	6373.0	6235.5	6060.5	5902.0	5456.5
30°	6412.8	6451.6	6593.5	6702.1	6660.0	6640.0	6592.4	6415.1	6265.5	6112.5	5619.4
32.5°	6714.3	6749.7	6873.8	6948.1	6894.9	6886.0	6814.0	6652.2	6532.5	6433.9	5883.2
35°	7023.4	7048.9	7170.8	7212.9	7142.0	7139.8	7119.8	6971.4	6896.0	6942.5	6266.6
37.5°	7339.3	7345.9	7450.1	7452.3	7431.2	7440.1	7461.2	7368.1	7389.1	7534.3	6765.2
40°	7620.7	7638.5	7713.8	7737.1	7773.7	7804.7	7910.0	7849.0	8011.9	8269.0	7385.8
42.5°	7829.1	7863.4	7984.2	8044.0	8162.6	8211.4	8359.9	8416.4	8744.4	9130.0	8123.8
45°	8005.3	8058.4	8252.4	8375.4	8576.0	8661.3	8874.0	9063.5	9572.2	10064.2	8900.6
47.5°	8195.9	8263.5	8506.1	8741.1	9013.7	9110.1	9496.8	9780.5	10455.4	11003.9	9633.1
50°	8476.2	8528.3	8765.4	9134.5	9474.7	9598.8	10134.0	10540.7	11353.0	11899.3	10268.1
52.5°	8867.4	8847.4	9048.0	9565.5	10022.1	10175.0	10814.4	11349.6	12262.8	12709.3	10804.4
55°	9260.8	9227.5	9368.3	10016.5	10660.4	10821.1	11563.5	12161.9	13128.2	13438.5	11215.6
57.5°	9698.5	9635.3	9753.9	10525.2	11387.3	11579.0	12402.4	13025.2	13979.3	14028.0	11477.1
60°	10149.5	10064.2	10197.2	11155.7	12310.4	12536.5	13384.2	13867.4	14781.6	14500.1	11561.3
62.5°	10544.0	10484.2	10689.2	11859.4	13351.0	13599.2	14348.3	14762.7	15572.8	14696.3	11257.7
65°	10888.7	10898.6	11253.2	12650.6	14511.2	14776.0	15454.2	15866.5	16195.6	14579.9	10547.3
67.5°	11299.8	11356.3	11961.3	13692.3	15971.7	16262.1	17063.3	17069.9	16543.5	13897.3	9148.9
70°	11899.3	12015.6	12935.4	15137.3	18048.4	18447.3	19065.7	17776.9	16054.8	12046.7	7198.5
72.5°	12431.2	12648.4	13971.5	16790.7	20579.4	20881.9	20237.0	17369.1	14012.5	9028.1	4484.7
74°	12215.1	12484.4	14159.9	17605.1	21532.4	21677.6	19841.4	16179.0	11683.2	6252.2	2606.4
75°	11749.7	12042.2	13885.1	17597.4	21411.6	21330.7	18886.2	14819.3	9622.0	4264.2	1734.3
77.5°	9482.4	9791.6	11699.8	15081.9	17556.4	17479.9	14507.9	9941.2	4214.3	1398.5	881.0
80°	5513.0	5749.1	7262.8	9577.7	11838.3	11976.9	9541.2	4919.1	1657.8	785.7	597.3
82.5°	2449.0	2611.9	3508.4	4889.1	7144.2	7322.6	4996.6	2577.6	1023.9	477.6	359.0
85°	1606.8	1727.6	2129.9	2328.2	3402.0	3523.9	2445.7	2006.9	676.0	262.6	263.7
87.5°	1155.8	1272.2	1582.4	1381.9	1561.4	1478.3	1330.9	1857.3	271.5	149.6	88.7
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: P320153

CATALOG NUMBER: GAN-SA9A-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0	5543.0
2.5°	5490.9	5473.1	5433.2	5357.9	5315.8	5280.3	5221.6	5187.2	5171.7	5170.6	5177.3
5°	5354.6	5313.6	5210.5	5084.2	4983.3	4891.4	4777.2	4708.5	4659.8	4630.9	4638.7
7.5°	5196.1	5131.8	4970.0	4768.4	4606.6	4428.2	4252.0	4146.7	4064.7	4003.7	4014.8
10°	5087.5	4998.9	4762.8	4472.5	4203.2	3943.9	3701.2	3556.0	3440.8	3352.1	3358.8
12.5°	5050.9	4931.3	4604.4	4216.5	3838.6	3484.0	3167.1	2944.3	2825.8	2724.9	2732.7
15°	5056.5	4895.8	4471.4	3986.0	3510.6	3064.0	2679.5	2419.1	2258.4	2188.6	2189.7
17.5°	5060.9	4854.8	4331.7	3738.9	3185.9	2671.7	2254.0	1990.2	1838.4	1774.1	1775.3
20°	5046.5	4788.3	4158.9	3455.2	2846.8	2311.6	1907.1	1683.3	1568.0	1518.2	1518.2
22.5°	5027.7	4709.6	3963.8	3170.4	2512.2	1999.1	1658.9	1488.2	1421.8	1388.5	1387.4
25°	5036.5	4650.9	3764.4	2877.9	2204.1	1749.8	1493.8	1380.8	1336.4	1315.4	1314.3
27.5°	5084.2	4623.2	3580.4	2586.4	1934.8	1562.5	1383.0	1303.2	1274.4	1261.1	1261.1
30°	5170.6	4623.2	3388.7	2338.2	1711.0	1424.0	1297.6	1243.3	1223.4	1214.5	1214.5
32.5°	5321.3	4648.7	3203.7	2092.2	1532.6	1315.4	1226.7	1190.2	1174.6	1170.2	1170.2
35°	5580.6	4735.1	3023.0	1859.5	1388.5	1226.7	1159.1	1138.1	1127.0	1125.9	1129.2
37.5°	5945.2	4911.3	2853.5	1687.7	1286.6	1154.7	1102.6	1086.0	1079.3	1084.9	1089.3
40°	6404.0	5150.7	2699.4	1532.6	1209.0	1097.1	1050.5	1039.4	1036.1	1043.9	1050.5
42.5°	6958.1	5474.2	2573.1	1420.6	1149.1	1048.3	1006.2	992.9	989.6	998.4	1007.3
45°	7557.6	5822.2	2484.5	1337.5	1102.6	1011.7	967.4	953.0	946.4	950.8	960.8
47.5°	8102.8	6151.3	2449.0	1278.8	1058.3	980.7	933.1	915.3	904.2	902.0	909.8
50°	8562.7	6396.2	2465.6	1243.3	1022.8	946.4	899.8	879.9	863.2	853.3	858.8
52.5°	8897.3	6550.3	2481.1	1227.8	995.1	908.7	863.2	844.4	822.2	805.6	805.6
55°	9140.0	6585.7	2446.8	1215.6	974.1	867.7	822.2	804.5	782.4	763.5	761.3
57.5°	9235.3	6486.0	2319.4	1197.9	959.7	828.9	779.0	765.7	746.9	724.7	723.6
60°	9106.8	6177.9	2073.3	1160.2	940.8	796.8	735.8	726.9	718.1	697.0	695.9
62.5°	8590.4	5502.0	1755.3	1083.8	903.1	762.4	695.9	700.3	701.5	687.1	684.8
65°	7654.0	4573.3	1445.0	984.0	846.6	721.4	654.9	676.0	688.2	685.9	682.6
67.5°	6293.2	3559.4	1224.5	878.8	772.4	664.9	610.6	635.0	644.9	652.7	650.5
70°	4670.8	2510.0	1012.8	767.9	682.6	598.4	553.0	565.2	558.5	567.4	570.7
72.5°	2604.1	1506.0	825.6	657.1	589.5	520.8	488.7	486.5	472.1	472.1	472.1
74°	1562.5	1104.8	725.8	588.4	533.0	469.9	442.2	432.2	418.9	420.0	418.9
75°	1256.6	949.7	666.0	543.0	493.1	439.9	412.2	398.9	389.0	389.0	387.9
77.5°	793.4	721.4	536.3	432.2	394.5	362.4	343.5	325.8	325.8	324.7	323.6
80°	599.5	574.0	417.8	326.9	302.5	278.1	266.0	258.2	258.2	261.5	260.4
82.5°	411.1	432.2	293.7	228.3	216.1	198.4	196.1	197.3	193.9	189.5	188.4
85°	300.3	324.7	198.4	144.1	131.9	120.8	129.7	134.1	128.5	118.6	114.1
87.5°	115.2	212.8	106.4	59.8	55.4	47.7	55.4	57.6	62.1	48.8	49.9
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)