

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: P320093

Luminaire Tested: **GAN-SA9C-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320093
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-SA9C-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 60085 lumens
Efficiency: N/A
Efficacy: 119.9 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): 501
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



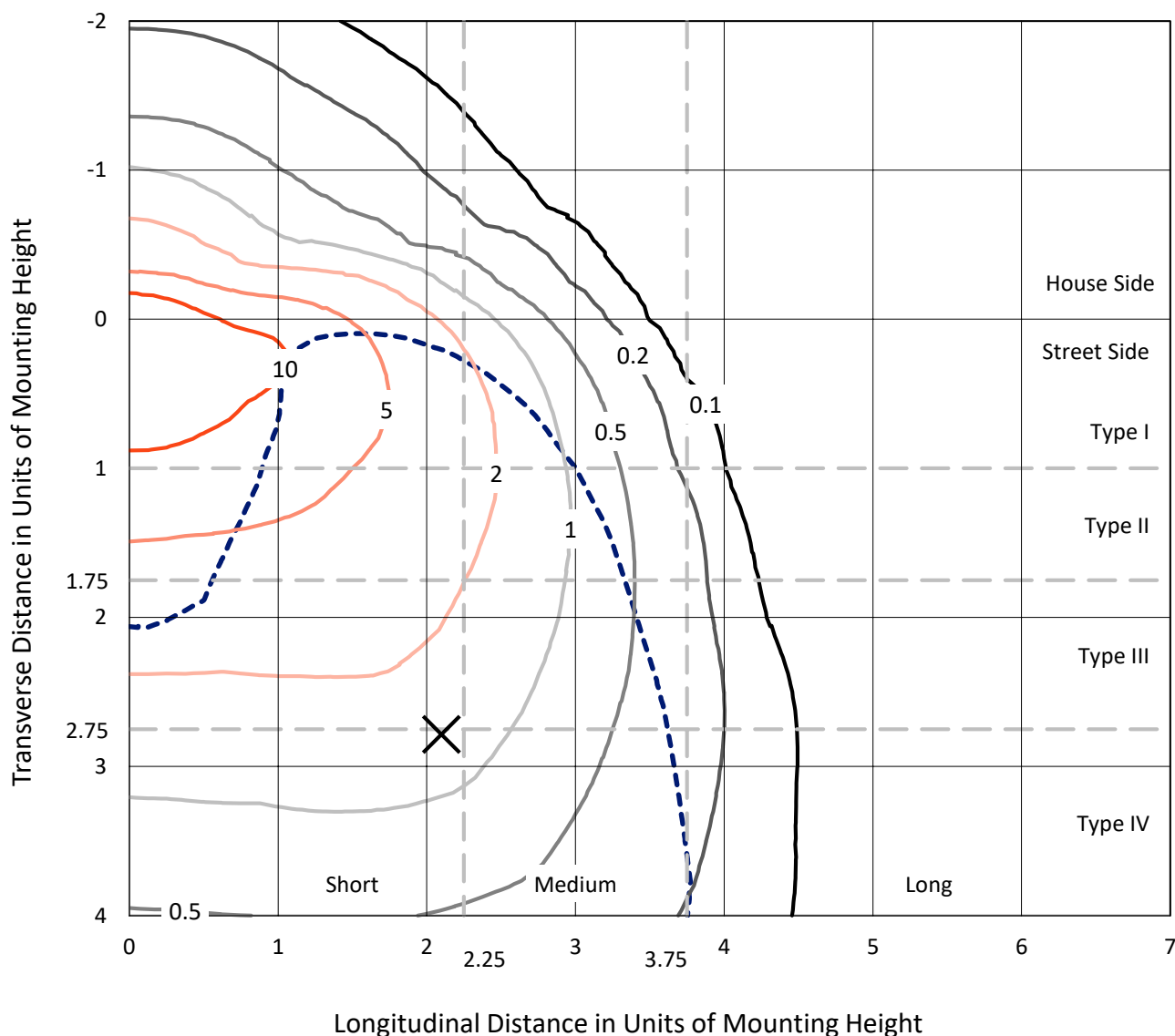
REPORT NUMBER: P320093

CATALOG NUMBER: GAN-SA9C-760-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

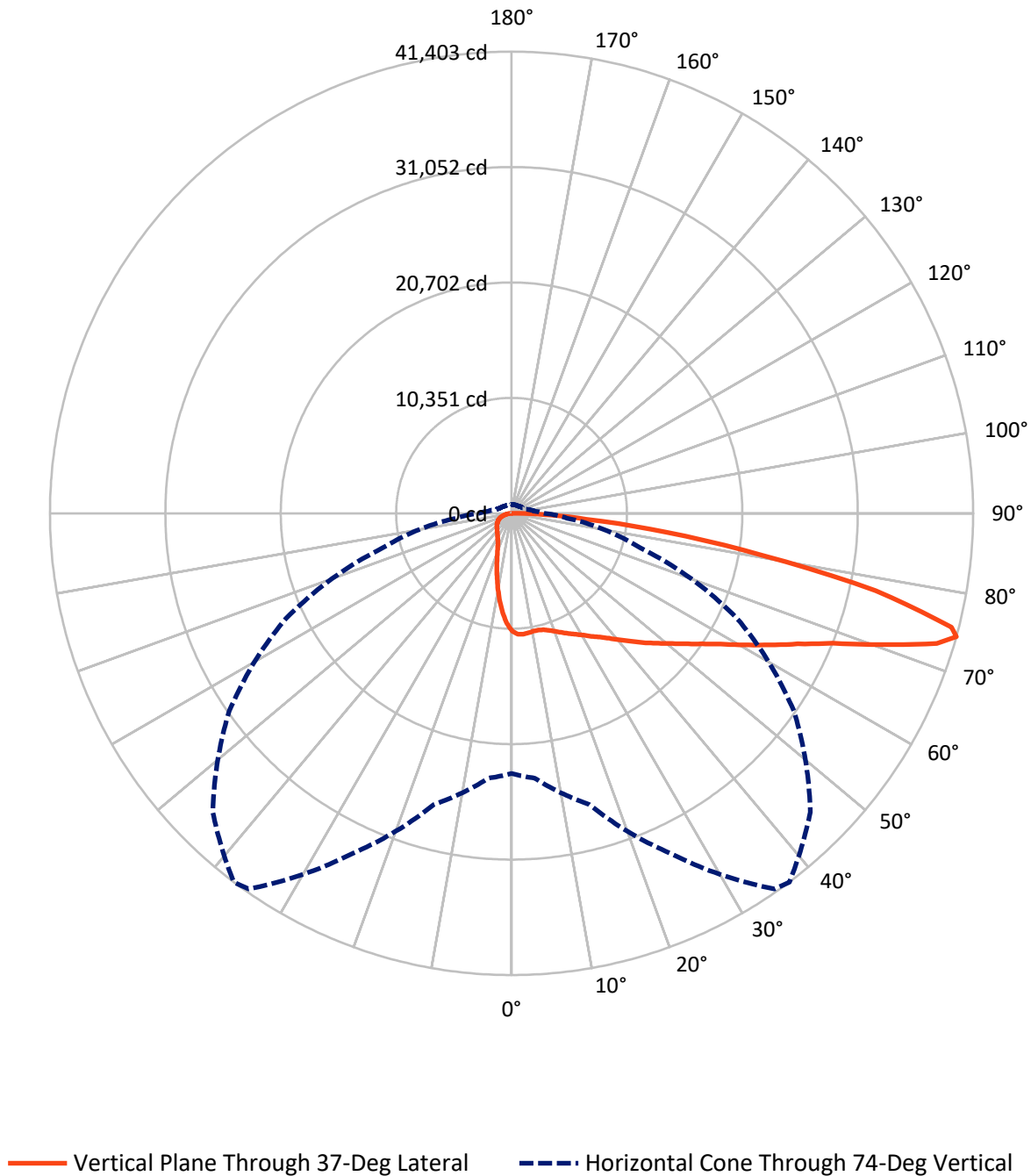


Based on 25 foot mounting height. Maximum calculated value = 17.2 fc

Type IV - Short - N/A

REPORT NUMBER: P320093
CATALOG NUMBER: GAN-SA9C-760-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P320093

CATALOG NUMBER: GAN-SA9C-760-U-SL4

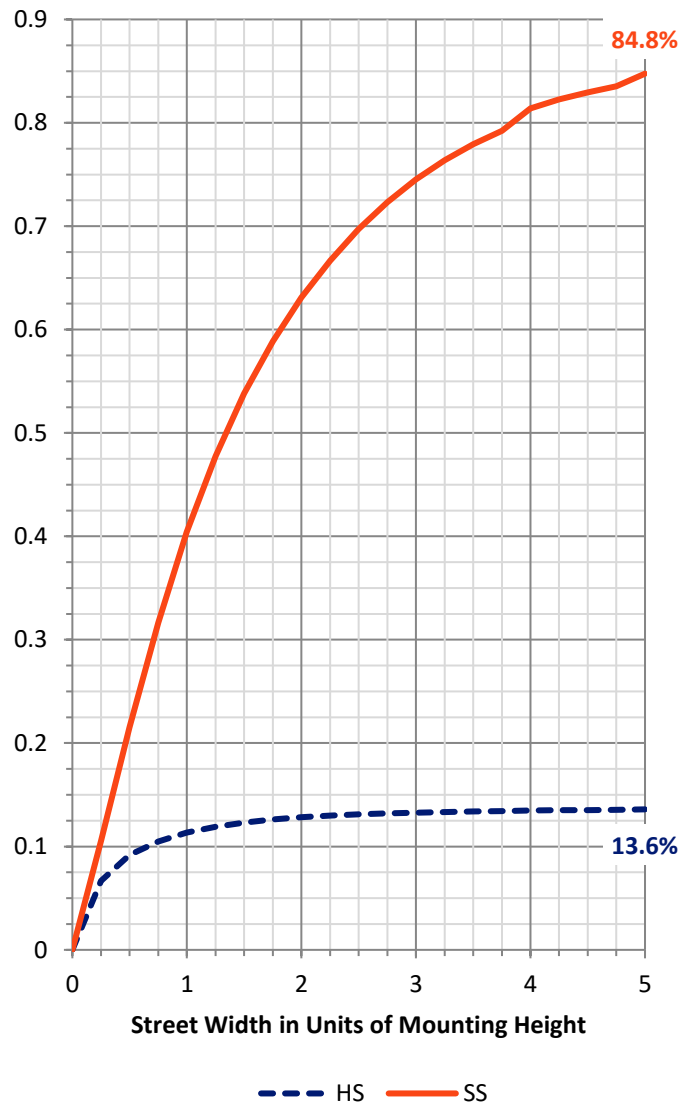
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8267.3	0.0	8267.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	51817.7	0.0	51817.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	60085.0	0.0	60085.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	932.3	1.6
10°-20°	2389.7	4.0
20°-30°	3682.0	6.1
30°-40°	5354.2	8.9
40°-50°	7880.5	13.1
50°-60°	11066.7	18.4
60°-70°	14007.1	23.3
70°-80°	12333.8	20.5
80°-90°	2438.6	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°	60085.0	100.0
0°-180°	60085.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320093

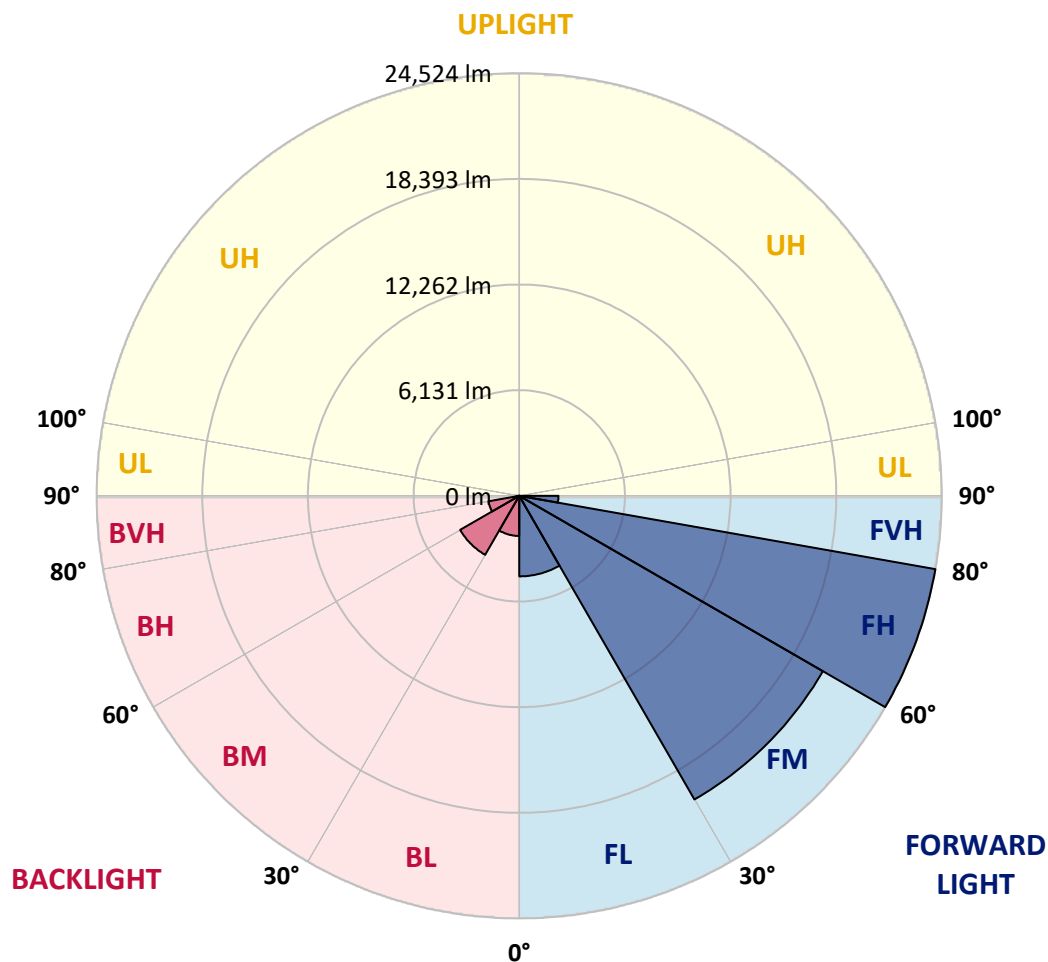
CATALOG NUMBER: GAN-SA9C-760-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4675.3	7.8			
FM	(30°-60°)	20345.3	33.9			
FH	(60°-80°)	24523.6	40.8			G5
FVH	(80°-90°)	2273.5	3.8			G5
BL	(0°-30°)	2328.7	3.9	B3/2500		
BM	(30°-60°)	3956.2	6.6	B3/5000		
BH	(60°-80°)	1817.2	3.0	B3/2500		G3/2500
BVH	(80°-90°)	165.1	0.3			G2/225
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: P320093

CATALOG NUMBER: GAN-SA9C-760-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7
2.5°	10948.7	10950.8	10948.7	10931.7	10891.5	10857.7	10830.1	10789.9	10701.0	10633.3	10531.7
5°	11052.4	11039.7	11031.2	10999.5	10936.0	10897.9	10845.0	10768.8	10622.7	10487.3	10322.2
7.5°	11003.7	10988.9	10969.8	10931.7	10859.8	10828.0	10753.9	10654.5	10478.8	10301.0	10064.0
10°	10853.4	10849.2	10840.7	10832.3	10770.9	10745.5	10677.8	10571.9	10398.4	10182.5	9905.2
12.5°	10686.2	10696.8	10730.7	10775.1	10747.6	10734.9	10692.6	10620.6	10442.8	10210.0	9875.6
15°	10580.4	10610.0	10701.0	10817.4	10840.7	10836.5	10825.9	10779.3	10591.0	10332.8	9943.3
17.5°	10544.4	10593.1	10766.6	10959.2	11027.0	11041.8	11046.0	10965.6	10756.1	10483.0	10013.2
20°	10610.0	10671.4	10925.4	11189.9	11297.9	11306.4	11287.3	11147.6	10912.7	10612.1	10051.3
22.5°	10809.0	10864.0	11181.5	11479.9	11602.7	11615.4	11558.2	11346.6	11077.8	10764.5	10104.2
25°	11192.1	11259.8	11577.3	11875.7	11939.2	11941.3	11858.8	11596.3	11293.7	10978.3	10218.5
27.5°	11691.6	11759.3	12045.0	12337.1	12303.2	12284.2	12172.0	11909.6	11575.2	11272.5	10421.7
30°	12248.2	12322.3	12593.2	12800.6	12720.2	12682.1	12591.1	12252.4	11966.7	11674.6	10732.8
32.5°	12823.9	12891.6	13128.7	13270.5	13168.9	13151.9	13014.4	12705.4	12476.8	12288.4	11236.5
35°	13414.4	13463.1	13695.9	13776.3	13640.9	13636.6	13598.5	13314.9	13171.0	13259.9	11968.8
37.5°	14017.6	14030.3	14229.2	14233.5	14193.3	14210.2	14250.4	14072.6	14112.8	14390.1	12921.2
40°	14555.2	14589.0	14733.0	14777.4	14847.3	14906.5	15107.6	14991.2	15302.3	15793.3	14106.5
42.5°	14953.1	15018.7	15249.4	15363.7	15590.2	15683.3	15966.9	16074.8	16701.3	17437.9	15516.1
45°	15289.6	15391.2	15761.6	15996.5	16379.6	16542.6	16948.9	17310.9	18282.3	19222.1	16999.7
47.5°	15653.7	15782.8	16246.3	16695.0	17215.6	17399.8	18138.4	18680.2	19969.2	21016.9	18398.8
50°	16189.1	16288.6	16741.5	17446.3	18096.1	18333.1	19355.4	20132.2	21683.6	22727.0	19611.5
52.5°	16936.3	16898.2	17281.2	18269.6	19141.6	19433.7	20654.9	21677.2	23421.2	24274.2	20635.9
55°	17687.6	17624.1	17892.9	19131.1	20360.8	20667.6	22085.7	23228.6	25074.2	25666.8	21421.1
57.5°	18523.6	18403.0	18629.5	20102.5	21749.2	22115.3	23687.9	24877.4	26699.7	26792.8	21920.6
60°	19385.0	19222.1	19476.1	21306.8	23512.2	23944.0	25563.1	26485.9	28232.0	27694.4	22081.5
62.5°	20138.5	20024.2	20415.8	22650.8	25499.6	25973.7	27404.5	28196.0	29743.2	28069.1	21501.5
65°	20796.8	20815.8	21493.1	24162.0	27715.6	28221.4	29516.7	30304.1	30932.7	27846.8	20144.9
67.5°	21582.0	21689.9	22845.5	26151.5	30505.1	31059.7	32589.9	32602.6	31597.3	26543.1	17473.8
70°	22727.0	22949.2	24705.9	28911.4	34471.5	35233.4	36414.4	33952.9	30663.9	23008.5	13748.8
72.5°	23742.9	24157.8	26684.9	32069.2	39305.6	39883.4	38651.6	33174.1	26763.2	17243.1	8565.5
74°	23330.2	23844.5	27044.7	33624.9	41125.8	41403.0	37896.0	30900.9	22314.3	11941.3	4978.0
75°	22441.3	23000.0	26519.8	33610.1	40895.1	40740.6	36071.5	28304.0	18377.6	8144.3	3312.3
77.5°	18110.9	18701.4	22346.0	28805.6	33531.7	33385.7	27709.2	18987.1	8049.1	2671.0	1682.6
80°	10529.6	10980.4	13871.6	18292.9	22610.6	22875.2	18223.1	9395.2	3166.3	1500.6	1140.8
82.5°	4677.5	4988.6	6700.8	9338.0	13645.1	13985.8	9543.3	4923.0	1955.6	912.2	685.7
85°	3068.9	3299.6	4067.9	4446.8	6497.7	6730.5	4671.1	3833.0	1291.1	501.6	503.7
87.5°	2207.5	2429.7	3022.4	2639.3	2982.2	2823.4	2541.9	3547.3	518.5	285.7	169.3
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: P320093

CATALOG NUMBER: GAN-SA9C-760-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7	10586.7
2.5°	10487.3	10453.4	10377.2	10233.3	10152.9	10085.1	9973.0	9907.3	9877.7	9875.6	9888.3
5°	10226.9	10148.6	9951.8	9710.5	9517.9	9342.2	9124.2	8993.0	8899.9	8844.9	8859.7
7.5°	9924.3	9801.5	9492.5	9107.3	8798.3	8457.5	8121.0	7920.0	7763.3	7646.9	7668.1
10°	9716.9	9547.5	9096.7	8542.2	8027.9	7532.6	7069.1	6791.9	6571.7	6402.4	6415.1
12.5°	9647.0	9418.4	8794.1	8053.3	7331.6	6654.3	6049.0	5623.5	5397.1	5204.5	5219.3
15°	9657.6	9350.7	8540.1	7613.1	6705.1	5852.1	5117.7	4620.3	4313.4	4180.1	4182.2
17.5°	9666.1	9272.4	8273.4	7141.1	6084.9	5102.9	4305.0	3801.2	3511.3	3388.5	3390.6
20°	9638.6	9145.4	7943.2	6599.3	5437.3	4415.0	3642.5	3215.0	2994.9	2899.6	2899.6
22.5°	9602.6	8995.1	7570.7	6055.3	4798.1	3818.2	3168.4	2842.5	2715.5	2652.0	2649.9
25°	9619.5	8883.0	7189.8	5496.6	4209.7	3342.0	2853.0	2637.2	2552.5	2512.3	2510.2
27.5°	9710.5	8830.0	6838.4	4939.9	3695.4	2984.3	2641.4	2489.0	2434.0	2408.6	2408.6
30°	9875.6	8830.0	6472.3	4465.8	3267.9	2719.7	2478.4	2374.7	2336.6	2319.7	2319.7
32.5°	10163.4	8878.7	6118.8	3996.0	2927.1	2512.3	2343.0	2273.1	2243.5	2235.0	2235.0
35°	10658.7	9043.8	5773.8	3551.5	2652.0	2343.0	2213.9	2173.6	2152.5	2150.4	2156.7
37.5°	11355.0	9380.3	5450.0	3223.4	2457.3	2205.4	2105.9	2074.2	2061.5	2072.1	2080.5
40°	12231.3	9837.5	5155.8	2927.1	2309.1	2095.3	2006.4	1985.3	1978.9	1993.7	2006.4
42.5°	13289.5	10455.5	4914.5	2713.4	2194.8	2002.2	1921.8	1896.4	1890.0	1907.0	1923.9
45°	14434.5	11120.1	4745.2	2554.6	2105.9	1932.4	1847.7	1820.2	1807.5	1816.0	1835.0
47.5°	15475.9	11748.7	4677.5	2442.4	2021.3	1873.1	1782.1	1748.2	1727.1	1722.8	1737.6
50°	16354.2	12216.5	4709.2	2374.7	1953.5	1807.5	1718.6	1680.5	1648.8	1629.7	1640.3
52.5°	16993.4	12510.6	4738.8	2345.1	1900.6	1735.5	1648.8	1612.8	1570.4	1538.7	1538.7
55°	17456.9	12578.4	4673.2	2321.8	1860.4	1657.2	1570.4	1536.6	1494.3	1458.3	1454.0
57.5°	17638.9	12387.9	4429.8	2287.9	1832.9	1583.1	1487.9	1462.5	1426.5	1384.2	1382.1
60°	17393.4	11799.5	3960.0	2216.0	1796.9	1521.8	1405.4	1388.4	1371.5	1331.3	1329.2
62.5°	16407.1	10508.4	3352.5	2069.9	1724.9	1456.2	1329.2	1337.6	1339.7	1312.2	1308.0
65°	14618.7	8734.8	2759.9	1879.5	1617.0	1377.8	1250.9	1291.1	1314.3	1310.1	1303.8
67.5°	12019.6	6798.2	2338.7	1678.4	1475.2	1269.9	1166.2	1212.8	1231.8	1246.6	1242.4
70°	8921.1	4793.9	1934.5	1466.7	1303.8	1142.9	1056.1	1079.4	1066.7	1083.6	1090.0
72.5°	4973.8	2876.3	1576.8	1255.1	1126.0	994.8	933.4	929.1	901.6	901.6	901.6
74°	2984.3	2110.2	1386.3	1123.9	1018.0	897.4	844.5	825.4	800.0	802.2	800.0
75°	2400.1	1813.8	1272.0	1037.1	941.8	840.3	787.3	761.9	742.9	742.9	740.8
77.5°	1515.4	1377.8	1024.4	825.4	753.5	692.1	656.1	622.3	622.3	620.1	618.0
80°	1145.0	1096.3	797.9	624.4	577.8	531.2	508.0	493.1	493.1	499.5	497.4
82.5°	785.2	825.4	560.9	436.0	412.7	378.9	374.6	376.7	370.4	361.9	359.8
85°	573.6	620.1	378.9	275.1	251.9	230.7	247.6	256.1	245.5	226.5	218.0
87.5°	220.1	406.4	203.2	114.3	105.8	91.0	105.8	110.1	118.5	93.1	95.2
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)