

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: P324263

Luminaire Tested: **GAN-SA9D-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51424 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

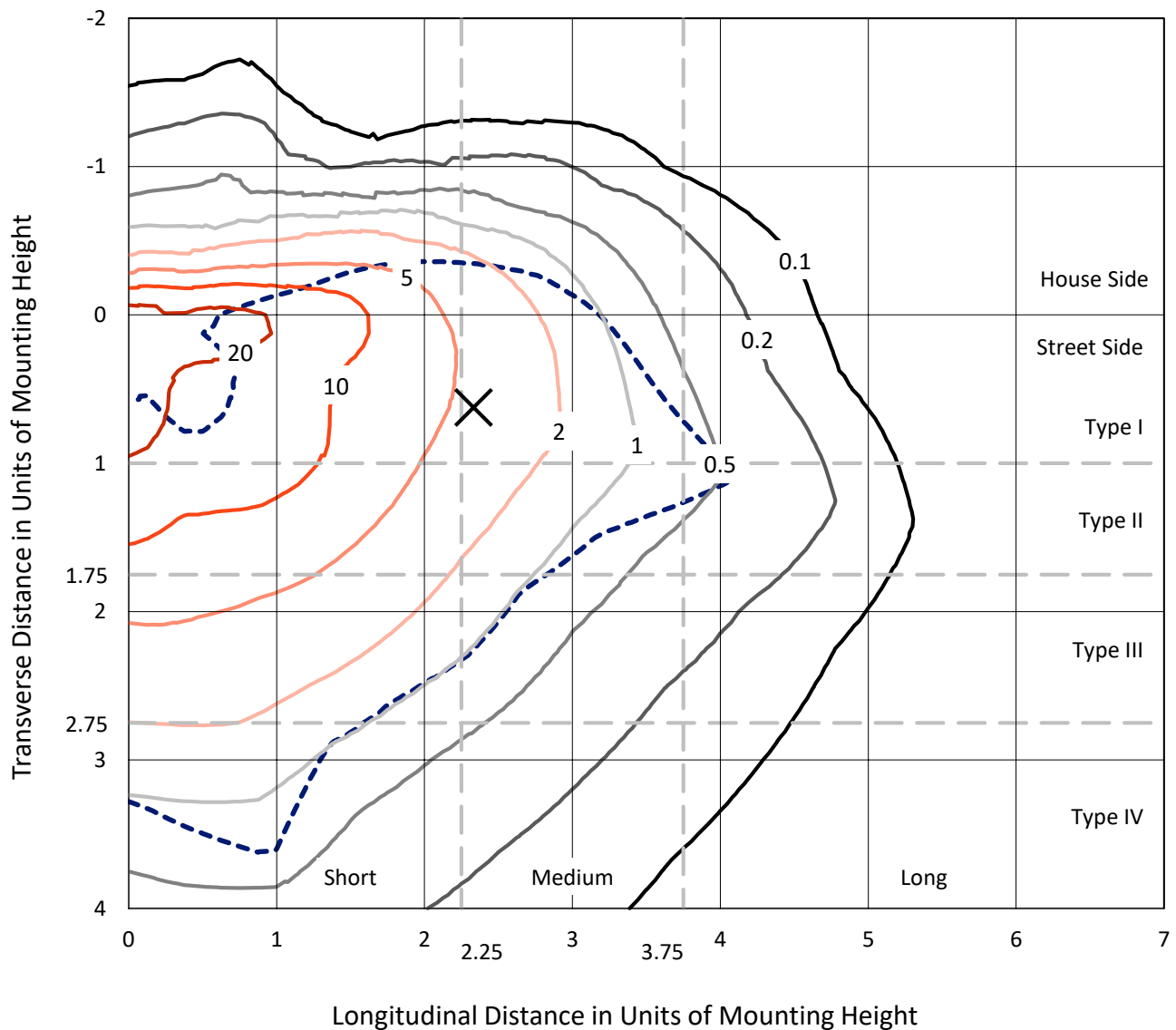


REPORT NUMBER: P324263

CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

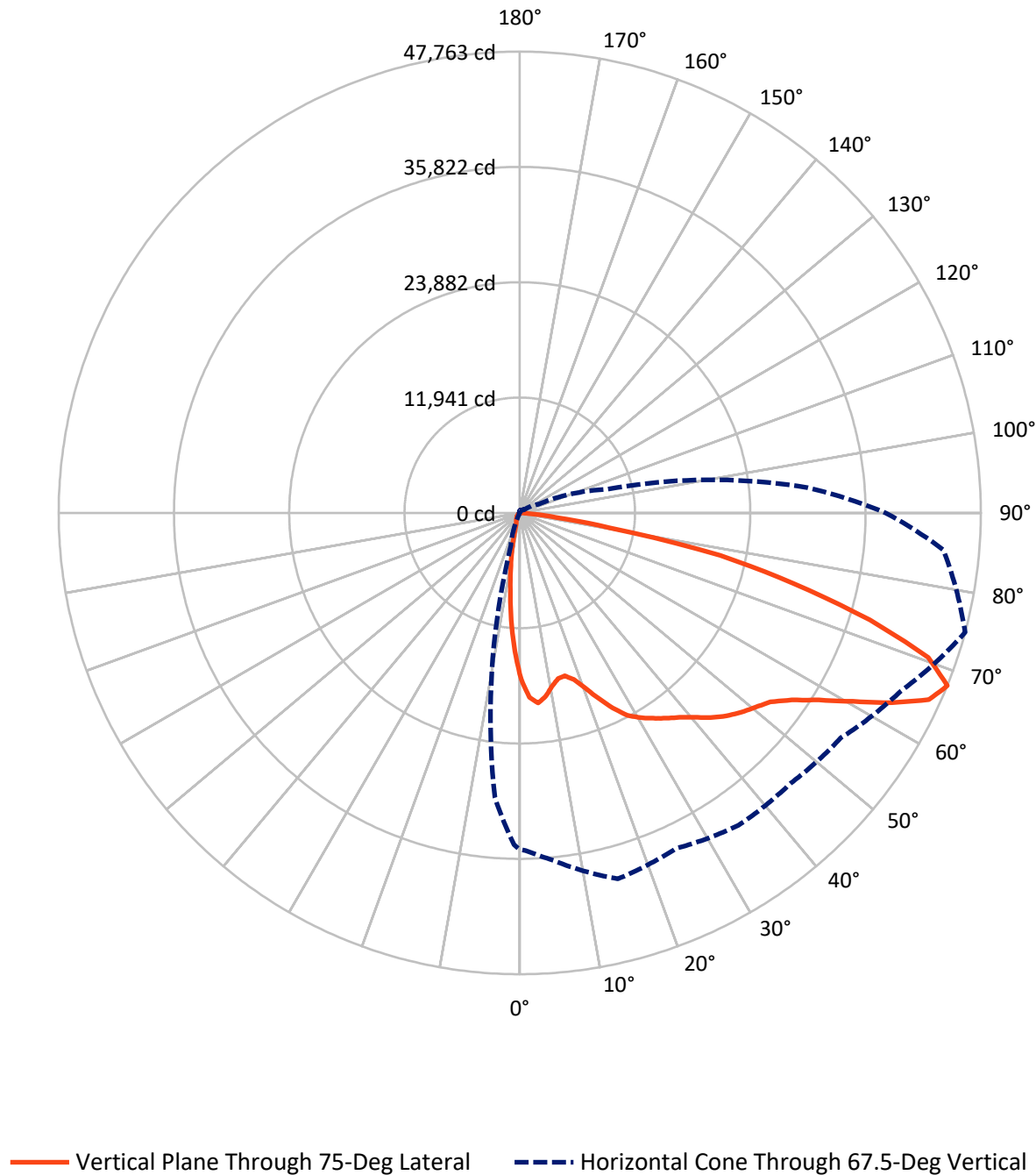
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P324263
CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324263

CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7716.7	0.0	7716.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43707.3	0.0	43707.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	51424.0	0.0	51424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1308.6	2.5
10°-20°	2576.7	5.0
20°-30°	3645.3	7.1
30°-40°	5359.6	10.4
40°-50°	7703.6	15.0
50°-60°	10844.6	21.1
60°-70°	12665.6	24.6
70°-80°	6461.5	12.6
80°-90°	858.4	1.7
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°	51424.0	100.0
0°-180°	51424.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324263

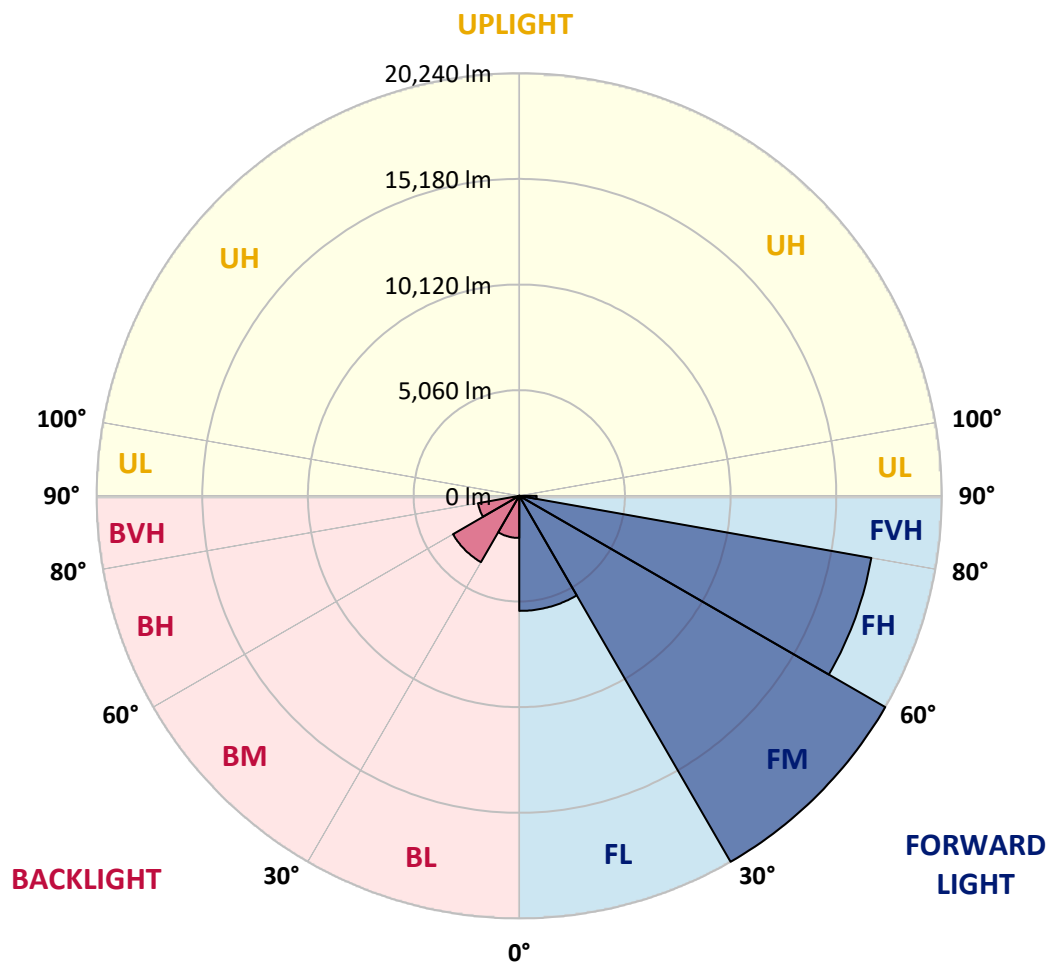
CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5512.7	10.7			
FM	(30°-60°)	20239.6	39.4			
FH	(60°-80°)	17122.7	33.3			G5
FVH	(80°-90°)	832.3	1.6			G5
BL	(0°-30°)	2018.0	3.9	B3/2500		
BM	(30°-60°)	3668.3	7.1	B3/5000		
BH	(60°-80°)	2004.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	26.0	0.1			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 III Medium



REPORT NUMBER: P324263

CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9
2.5°	18701.3	18730.5	18881.6	19232.4	19614.8	19644.0	19902.3	19636.7	19546.6	19117.9	18674.5
5°	18842.6	18954.6	19473.5	20504.0	21398.0	21685.4	21890.0	21368.7	20820.6	19773.2	18655.0
7.5°	17705.0	17892.5	18708.6	20642.8	22240.8	22947.3	23081.3	22265.2	20923.0	19198.3	17517.4
10°	16248.2	16462.6	17446.8	19824.3	22019.2	23229.9	23415.0	22345.6	20416.3	18267.7	16287.2
12.5°	15069.2	15320.1	16326.2	18903.5	21256.7	22596.5	22961.9	22075.2	19977.8	17607.5	15446.8
15°	14526.0	14813.4	15870.7	18309.1	20411.4	21466.2	21768.2	21385.8	19734.2	17502.8	15251.9
17.5°	14837.8	15149.6	16240.9	18360.3	19617.2	20067.9	20311.5	20467.4	19734.2	18133.7	15821.9
20°	16116.7	16452.9	17607.5	18879.1	18959.5	18791.4	19052.1	19600.2	19963.2	19332.2	17191.0
22.5°	17885.2	18279.9	19583.1	19768.3	18638.0	18002.2	18036.3	18896.2	20379.7	20852.3	19091.1
25°	20041.1	20523.4	21848.6	21093.5	18771.9	17532.0	17519.8	18316.4	20786.5	22374.8	21208.0
27.5°	22182.4	22713.4	23877.8	22711.0	19324.9	17446.8	17422.4	18141.0	21183.6	23729.2	23519.7
30°	23977.7	24494.2	25497.8	23882.7	19921.7	17646.5	17529.6	18328.6	21419.9	24608.6	25205.5
32.5°	25439.3	25853.4	26664.6	24689.0	20560.0	18033.8	17780.5	18830.4	21821.8	25351.6	26754.8
35°	27047.1	27483.1	27807.1	25456.4	21276.2	18591.7	18228.7	19627.0	22440.6	26106.8	28452.7
37.5°	28881.4	29315.0	29276.1	26158.0	22184.8	19514.9	19283.5	20888.8	23402.8	26854.7	30347.9
40°	30676.8	31120.1	30803.4	26925.3	23251.8	21037.4	20866.9	22784.1	24691.5	27812.0	32569.5
42.5°	32357.6	32837.5	32160.3	27651.2	24523.4	22957.0	23249.3	25225.0	26304.1	28991.0	34484.3
45°	33712.0	34201.7	33297.9	28357.7	25863.2	25285.9	26165.3	27928.9	28243.2	29987.4	35777.8
47.5°	34696.2	35159.0	34087.2	29064.1	27578.1	28133.6	29665.8	30764.5	29994.7	30852.2	36696.2
50°	35324.7	35685.2	34318.6	29948.4	29829.0	31456.3	33312.5	33848.5	31643.9	31631.7	37811.9
52.5°	35724.2	35887.4	34489.1	30871.6	32177.3	35073.8	36883.7	37051.8	33341.8	32489.2	39314.9
55°	37100.5	37232.1	35697.4	31989.8	34118.9	38243.0	40113.9	39958.0	35263.8	34167.6	41088.3
57.5°	39448.9	39587.7	38194.3	33597.5	35690.1	40201.6	42454.9	42735.0	37517.1	36525.6	42988.4
60°	40627.9	40886.1	40389.2	35634.1	37212.6	41453.7	44050.5	44944.5	40333.1	39634.0	44830.0
62.5°	39558.5	39933.6	40654.7	37892.2	38725.4	42143.1	44547.4	45736.2	43217.4	43256.4	45965.2
65°	37424.5	37724.2	38947.0	39129.7	39602.3	42057.8	43319.7	44630.3	44983.5	46584.0	45904.3
67.5°	34847.2	34959.3	35997.0	39227.2	38330.7	39495.1	39631.6	40601.1	43587.7	47763.0	44060.2
70°	31137.2	31198.1	32104.3	35965.4	32939.8	33195.6	32993.4	33190.7	37473.2	44890.9	39405.0
72.5°	25059.3	25212.8	26501.4	29868.0	23997.2	23259.1	24847.4	24759.7	28859.5	37926.3	29266.3
75°	18450.4	18715.9	20662.3	24058.1	16842.6	15234.9	16394.4	16703.8	20516.1	29337.0	18301.8
77.5°	12918.2	13115.5	15001.0	17685.5	12189.8	10893.9	10474.9	10842.7	13541.8	21222.6	9220.3
80°	7442.0	7515.1	8718.5	10211.8	8214.2	9398.2	8513.9	8767.2	8114.4	9442.0	3965.8
82.5°	4869.6	4881.8	5351.9	6077.9	5115.6	5943.9	4399.4	5624.8	4991.4	3792.9	1291.1
85°	2630.9	2645.5	3103.5	4314.2	2896.4	1637.0	962.2	1975.6	3086.4	869.7	353.2
87.5°	289.9	265.5	935.4	1568.8	803.9	148.6	51.2	221.7	494.5	56.0	0.0
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: P324263

CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9
2.5°	18448.0	18245.8	17741.5	17208.0	16779.3	16377.3	15973.0	15478.5	15096.0	15018.0	14891.4
5°	18053.3	17412.6	16355.4	15293.3	14438.3	13359.1	12674.6	12141.1	11619.8	11588.1	11483.4
7.5°	16674.5	15831.7	14343.3	12874.3	11671.0	10643.0	9605.2	8911.0	8365.3	8172.8	8058.3
10°	15349.3	14401.7	12543.1	10867.1	9792.8	8884.2	8153.3	7427.4	6769.7	6316.6	6112.0
12.5°	14423.7	13376.2	11327.5	9882.9	9113.1	8250.8	7359.2	6453.0	5695.4	5149.7	4816.0
15°	14065.6	12947.4	10920.7	9493.2	8543.1	7451.8	6311.7	5276.4	4436.0	3941.5	3641.8
17.5°	14491.9	13191.0	10889.0	9018.1	7690.5	6333.6	5074.2	3851.3	3059.6	2684.5	2492.0
20°	15573.5	13965.7	10876.8	8435.9	6677.1	5008.5	3437.2	2533.5	2053.6	1844.1	1753.9
22.5°	17103.3	14954.7	10974.3	7861.0	5622.3	3578.5	2372.7	1861.1	1615.1	1503.0	1451.9
25°	19071.6	16343.2	11249.5	7339.7	4630.9	2669.9	1848.9	1559.1	1386.1	1298.4	1261.9
27.5°	21169.0	17941.3	11678.3	6886.6	3824.5	2129.1	1583.4	1334.9	1210.7	1149.8	1115.7
30°	22898.6	19792.6	12111.9	6382.4	3239.9	1856.2	1449.4	1218.0	1074.3	1035.3	1003.6
32.5°	24411.3	21193.3	12418.8	5926.8	2857.4	1649.2	1310.6	1088.9	991.5	915.9	881.8
35°	25977.7	22360.2	12409.1	5607.7	2594.4	1493.3	1193.6	974.4	857.5	769.8	743.0
37.5°	27673.2	23678.1	12197.1	5334.9	2479.9	1369.0	1127.9	913.5	796.6	708.9	674.8
40°	29658.5	25061.7	11980.3	5079.1	2448.2	1269.2	1081.6	864.8	740.5	655.3	621.2
42.5°	31592.7	26309.0	11790.3	4889.1	2311.8	1266.7	1040.2	828.2	696.7	613.9	574.9
45°	33139.6	27471.0	11753.8	4774.6	2168.1	1310.6	1018.3	803.9	662.6	579.8	543.2
47.5°	34425.8	28732.8	11987.6	4694.2	2031.6	1196.1	1071.8	786.8	630.9	550.5	509.1
50°	35955.6	30282.1	12538.2	4562.7	1887.9	1076.7	1227.8	791.7	604.1	521.3	477.5
52.5°	38089.6	32425.8	13346.9	4341.0	1690.6	967.1	1208.3	796.6	574.9	489.6	445.8
55°	40481.7	35103.0	14216.6	3973.1	1415.3	823.4	1035.3	762.5	518.9	455.5	414.1
57.5°	42995.7	37531.7	14733.0	3534.7	1125.4	711.3	828.2	694.3	458.0	409.3	382.5
60°	43390.3	38455.0	14496.7	2996.3	894.0	618.7	613.9	706.4	409.3	360.5	341.0
62.5°	42408.6	37295.4	13354.2	2516.4	747.9	543.2	504.3	616.3	370.3	321.6	302.1
65°	40520.7	34160.3	11502.9	2267.9	694.3	465.3	419.0	433.6	324.0	280.1	263.1
67.5°	37894.7	29975.2	9444.4	2126.6	687.0	399.5	358.1	328.9	280.1	243.6	229.0
70°	32525.7	24971.6	7534.6	2048.7	667.5	336.2	302.1	268.0	233.9	207.1	194.9
72.5°	23938.7	17695.2	5861.1	1963.4	672.3	268.0	263.1	221.7	187.6	160.8	155.9
75°	13831.7	10109.5	3844.0	1590.7	640.7	207.1	219.2	155.9	131.5	112.1	112.1
77.5°	7371.4	6165.6	1464.0	662.6	233.9	131.5	124.2	92.6	82.8	68.2	65.8
80°	3213.1	2713.7	440.9	185.1	129.1	70.6	46.3	41.4	36.5	29.2	26.8
82.5°	1137.6	981.7	143.7	90.1	56.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	258.2	185.1	0.0	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P324263

CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9
2.5°	14633.2	14579.6	14262.9	14275.1	14331.1	14411.5	14221.5	14309.2	14545.5	14772.0	14857.3
5°	11315.3	11327.5	11135.0	11254.4	11361.6	11434.7	11127.7	11132.6	11320.2	11576.0	11709.9
7.5°	7973.1	7953.6	7963.3	8248.4	8450.5	8304.4	8418.9	8021.8	8046.2	8228.9	8092.4
10°	5926.8	5658.9	5507.8	5722.2	5943.9	5863.5	5666.2	5537.1	5627.2	5829.4	5814.8
12.5°	4657.7	4272.8	4046.2	3892.8	4075.5	3924.4	3919.6	3807.5	3685.7	3707.6	4031.6
15°	3503.0	3222.9	2954.9	2708.9	2704.0	2652.8	2392.2	2099.8	2075.5	2090.1	2258.2
17.5°	2409.2	2314.2	2204.6	1992.7	1936.6	1722.3	1468.9	1352.0	1293.5	1320.3	1376.3
20°	1693.0	1656.5	1668.7	1554.2	1473.8	1269.2	1120.6	1074.3	1064.5	1091.3	1118.1
22.5°	1403.1	1337.4	1330.1	1278.9	1198.5	1049.9	969.5	942.7	930.6	954.9	974.4
25°	1227.8	1162.0	1135.2	1103.5	1018.3	915.9	867.2	842.9	830.7	845.3	857.5
27.5°	1081.6	1020.7	996.3	974.4	891.6	818.5	779.5	757.6	747.9	752.7	764.9
30°	972.0	918.4	886.7	859.9	789.3	738.1	704.0	682.1	672.3	672.3	684.5
32.5°	857.5	828.2	799.0	764.9	699.1	665.0	630.9	606.6	596.8	599.3	609.0
35°	713.8	704.0	711.3	679.6	623.6	594.4	560.3	533.5	526.2	528.6	538.4
37.5°	633.4	589.5	616.3	599.3	567.6	528.6	484.8	460.4	448.2	455.5	460.4
40°	582.2	528.6	509.1	526.2	521.3	458.0	419.0	394.6	384.9	387.3	392.2
42.5°	538.4	475.0	431.2	428.7	458.0	399.5	358.1	336.2	324.0	324.0	328.9
45°	496.9	428.7	375.1	333.7	384.9	338.6	299.6	280.1	265.5	265.5	268.0
47.5°	465.3	389.8	326.4	272.8	289.9	277.7	246.0	226.5	211.9	211.9	214.4
50°	436.0	350.8	282.6	229.0	216.8	229.0	199.8	177.8	168.1	165.6	170.5
52.5°	404.4	311.8	241.2	194.9	170.5	173.0	155.9	141.3	129.1	129.1	134.0
55°	372.7	280.1	209.5	165.6	141.3	129.1	124.2	114.5	104.7	104.7	109.6
57.5°	341.0	246.0	177.8	136.4	112.1	102.3	102.3	95.0	87.7	87.7	92.6
60°	311.8	211.9	146.2	112.1	87.7	85.3	87.7	80.4	75.5	75.5	80.4
62.5°	277.7	180.3	119.4	92.6	70.6	68.2	75.5	70.6	65.8	65.8	70.6
65°	236.3	153.5	95.0	70.6	53.6	53.6	63.3	58.5	53.6	53.6	58.5
67.5°	199.8	129.1	73.1	51.2	39.0	41.4	53.6	48.7	46.3	46.3	51.2
70°	165.6	99.9	51.2	31.7	21.9	31.7	41.4	41.4	41.4	41.4	46.3
72.5°	124.2	68.2	29.2	12.2	9.7	21.9	34.1	39.0	36.5	36.5	43.8
75°	80.4	39.0	9.7	0.0	0.0	12.2	26.8	31.7	31.7	29.2	36.5
77.5°	46.3	12.2	0.0	0.0	0.0	0.0	17.1	14.6	12.2	9.7	17.1
80°	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P324263

CATALOG NUMBER: GAN-SA9D-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9	17251.9
2.5°	15200.7	15488.2	15892.6	16321.3	16981.5	17505.2	18019.2	18460.1	18630.7	18701.3
5°	12031.5	12452.9	13044.9	13804.9	14996.1	16068.0	17154.4	18248.2	18723.2	18842.6
7.5°	8633.2	9171.6	9924.3	10876.8	12272.7	13661.2	15178.8	16784.2	17519.8	17705.0
10°	6389.7	7047.4	7909.7	8913.4	10245.9	11673.4	13327.4	15161.8	16002.2	16248.2
12.5°	4533.4	5422.6	6577.2	7797.7	8952.4	10226.4	11899.9	13921.8	14803.7	15069.2
15°	2662.6	3522.5	4889.1	6523.7	8002.3	9293.4	10993.7	13286.0	14258.0	14526.0
17.5°	1527.4	1956.1	2989.0	4811.1	6818.4	8606.4	10708.7	13444.4	14589.3	14837.8
20°	1166.9	1303.3	1722.3	3098.6	5434.8	7931.7	10708.7	14340.8	15751.3	16116.7
22.5°	1020.7	1120.6	1291.1	1848.9	3999.9	7208.2	10833.0	15636.8	17480.9	17885.2
25°	906.2	996.3	1142.5	1391.0	2728.3	6348.3	11127.7	17227.5	19517.4	20041.1
27.5°	811.2	896.5	1028.0	1218.0	1866.0	5310.5	11524.8	19093.5	21763.4	22182.4
30°	725.9	806.3	925.7	1059.7	1439.7	4133.9	11863.4	20852.3	23527.1	23977.7
32.5°	645.5	718.6	825.8	925.7	1179.0	3057.2	11899.9	22245.7	24991.1	25439.3
35°	570.0	635.8	733.2	811.2	976.8	2414.1	11332.4	23454.0	26455.1	27047.1
37.5°	496.9	560.3	645.5	704.0	859.9	1968.3	10465.1	24801.1	28333.3	28881.4
40°	428.7	484.8	572.5	611.4	813.6	1512.8	9522.4	26214.0	30174.9	30676.8
42.5°	365.4	419.0	504.3	579.8	713.8	1130.3	8504.1	27539.2	31831.4	32357.6
45°	304.5	360.5	445.8	613.9	592.0	845.3	7415.2	28418.6	33139.6	33712.0
47.5°	246.0	309.4	426.3	584.6	472.6	621.2	6552.9	29251.7	34131.0	34696.2
50°	197.3	260.7	479.9	521.3	387.3	475.0	6192.4	29997.1	34781.5	35324.7
52.5°	160.8	219.2	453.1	399.5	324.0	392.2	6387.2	31205.4	35383.1	35724.2
55°	134.0	173.0	272.8	277.7	275.3	333.7	6628.4	32939.8	36939.8	37100.5
57.5°	116.9	138.9	190.0	214.4	231.4	297.2	6633.3	35429.4	39349.0	39448.9
60°	99.9	121.8	158.3	173.0	199.8	265.5	6392.1	36299.1	40296.6	40627.9
62.5°	87.7	107.2	131.5	143.7	168.1	238.7	5827.0	35039.7	38995.8	39558.5
65°	78.0	97.4	109.6	121.8	148.6	214.4	4896.4	32520.8	36837.4	37424.5
67.5°	68.2	85.3	97.4	109.6	134.0	190.0	3605.3	29595.2	34360.0	34847.2
70°	60.9	75.5	87.7	97.4	116.9	160.8	2187.5	25112.9	30935.0	31137.2
72.5°	58.5	68.2	80.4	87.7	102.3	141.3	1108.4	18455.3	24730.4	25059.3
75°	51.2	60.9	73.1	78.0	90.1	121.8	450.7	12121.6	17921.8	18450.4
77.5°	41.4	56.0	65.8	70.6	78.0	99.9	229.0	7746.5	12577.2	12918.2
80°	14.6	41.4	56.0	58.5	65.8	73.1	151.0	4241.1	7295.9	7442.0
82.5°	0.0	26.8	43.8	41.4	46.3	56.0	97.4	2017.0	4816.0	4869.6
85°	0.0	12.2	34.1	26.8	19.5	39.0	34.1	440.9	2526.1	2630.9
87.5°	0.0	0.0	2.4	12.2	9.7	14.6	4.9	2.4	229.0	289.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)