

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: P324078

Luminaire Tested: **GAN-SA4B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324078
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-SA4B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 14292 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

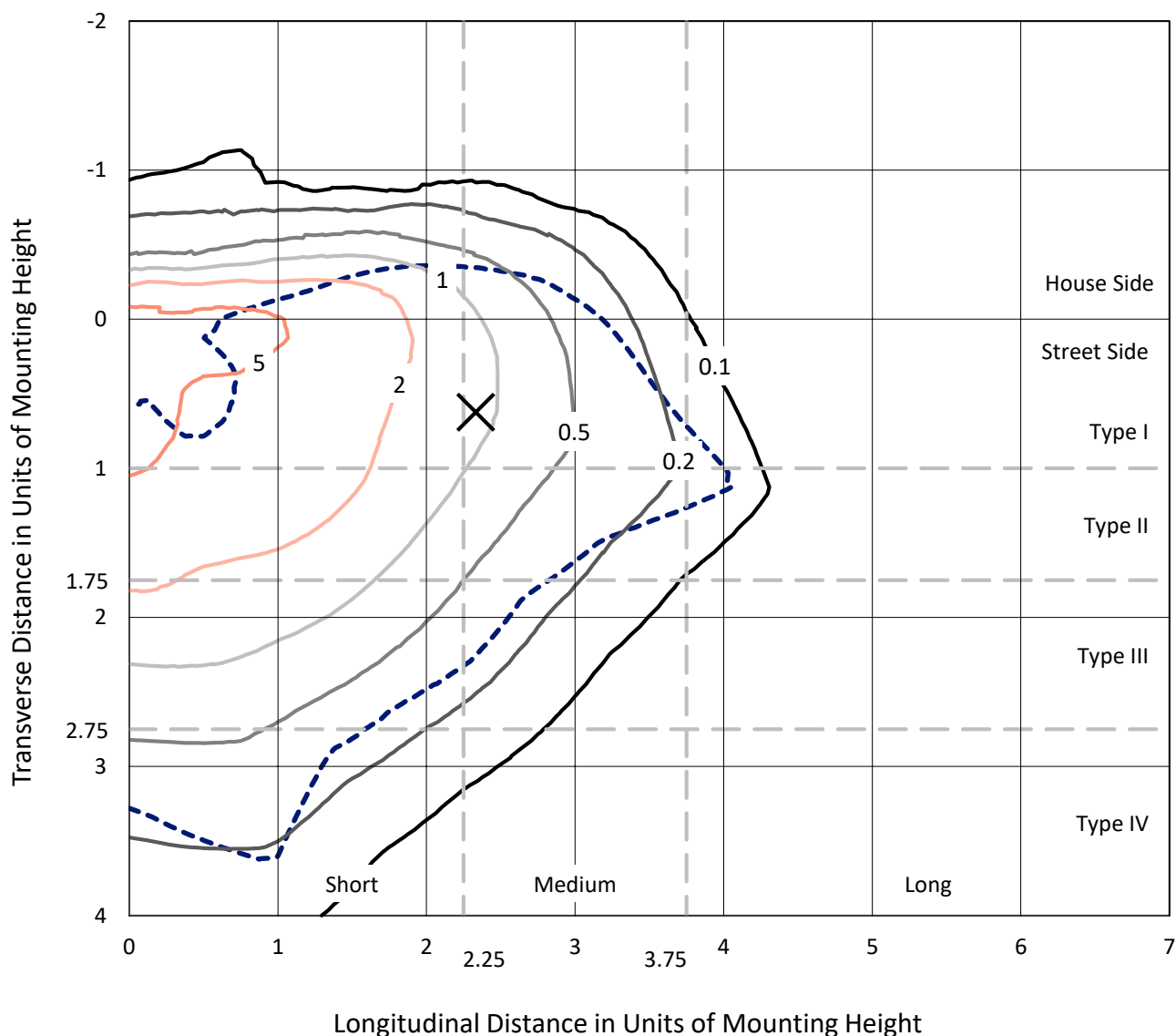
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324078
 CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

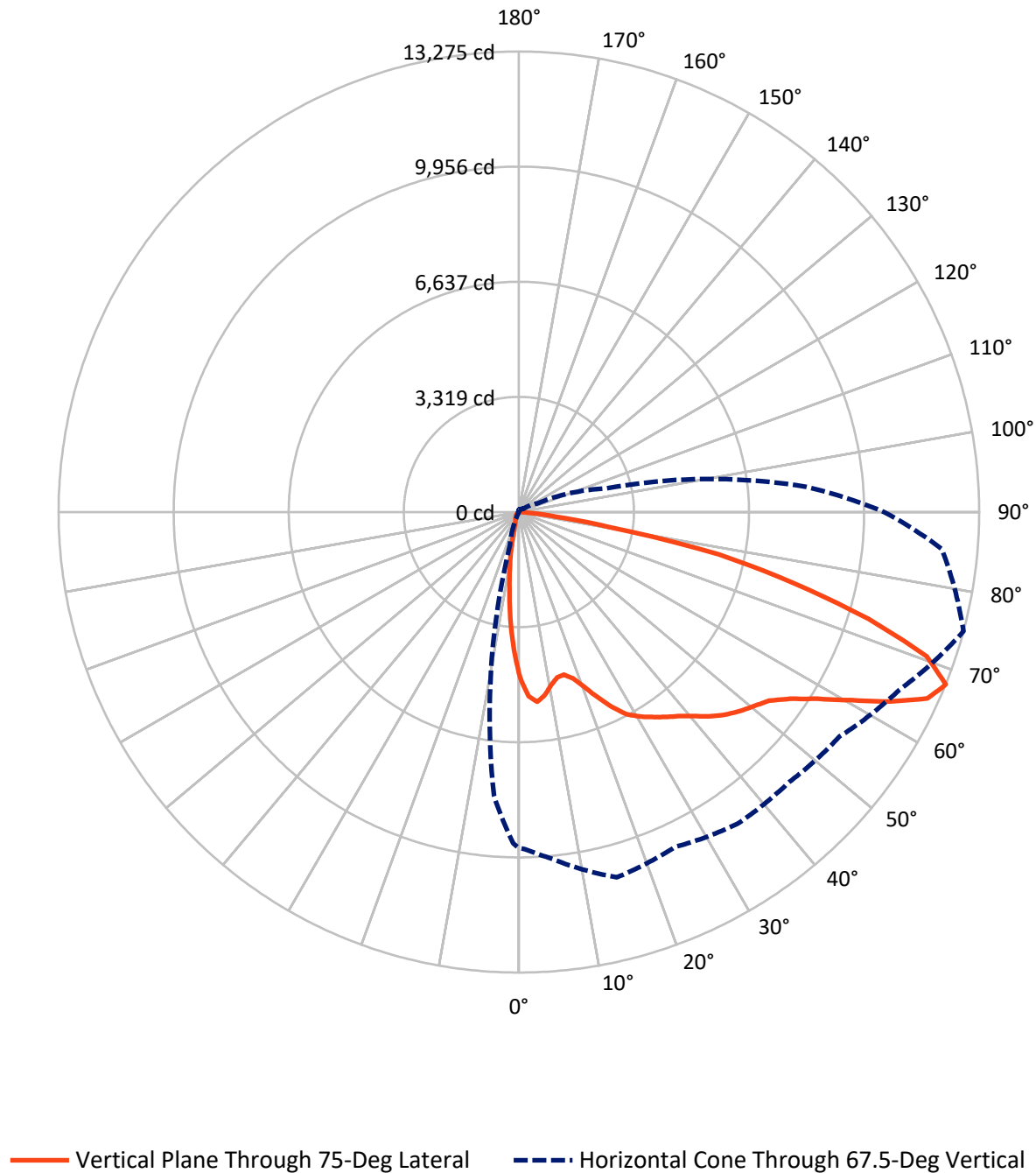
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P324078
CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324078

CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

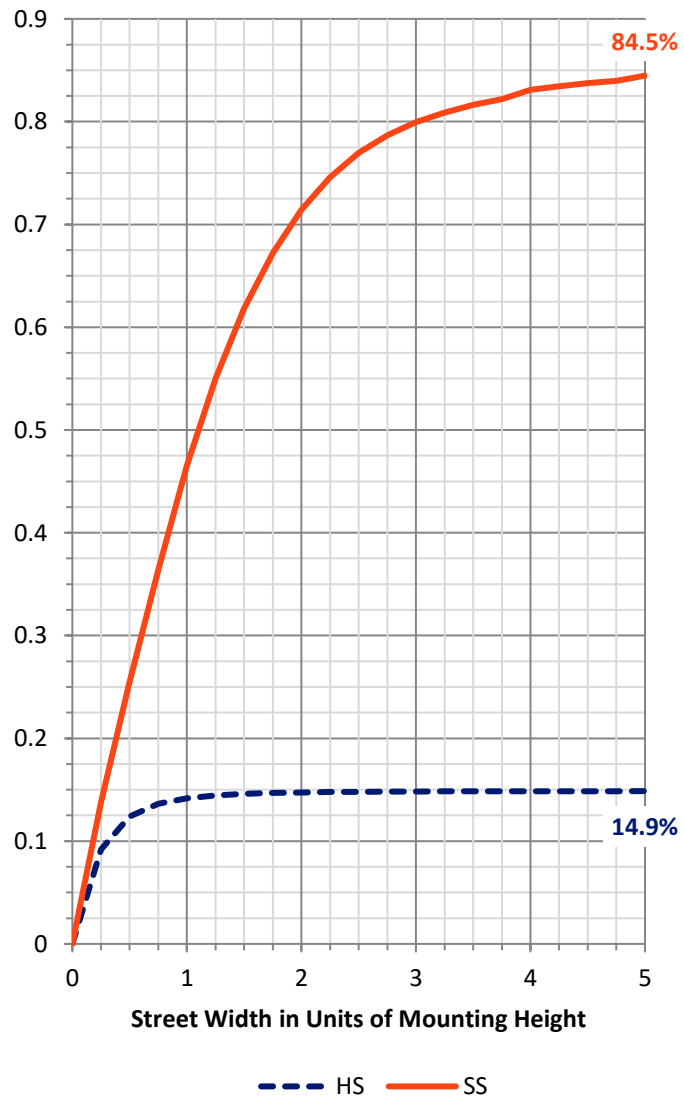
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2144.7	0.0	2144.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12147.3	0.0	12147.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	14292.0	0.0	14292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.7	2.5
10°-20°	716.1	5.0
20°-30°	1013.1	7.1
30°-40°	1489.6	10.4
40°-50°	2141.0	15.0
50°-60°	3014.0	21.1
60°-70°	3520.1	24.6
70°-80°	1795.8	12.6
80°-90°	238.6	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°	14292.0	100.0
0°-180°	14292.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324078

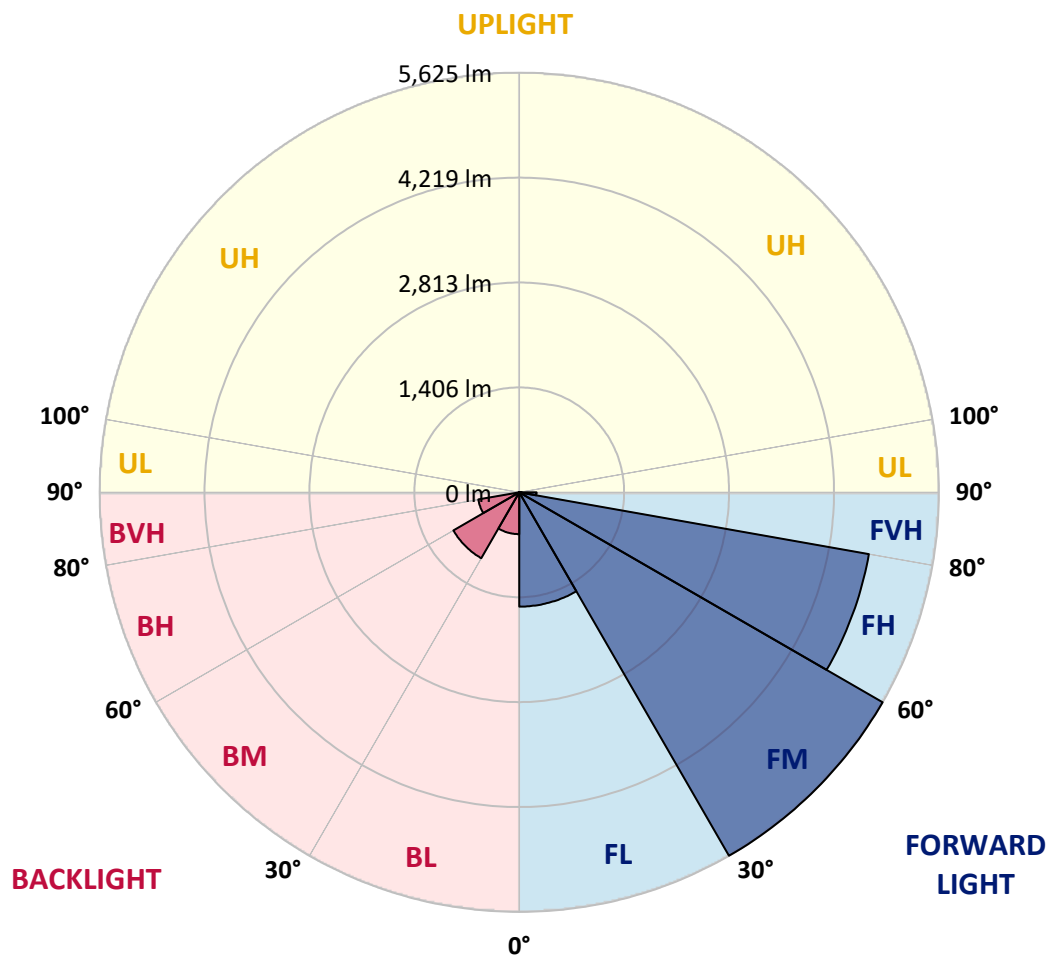
CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.1	10.7			
FM	(30°-60°)	5625.1	39.4			
FH	(60°-80°)	4758.8	33.3			G2/5000
FVH	(80°-90°)	231.3	1.6			G3/500
BL	(0°-30°)	560.9	3.9	B2/1000		
BM	(30°-60°)	1019.5	7.1	B2/2500		
BH	(60°-80°)	557.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	7.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P324078

CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7
2.5°	5197.6	5205.7	5247.7	5345.1	5451.4	5459.6	5531.3	5457.5	5432.5	5313.3	5190.1
5°	5236.8	5268.0	5412.2	5698.6	5947.0	6026.9	6083.8	5938.9	5786.6	5495.4	5184.7
7.5°	4920.6	4972.8	5199.6	5737.1	6181.3	6377.6	6414.9	6188.0	5815.0	5335.7	4868.5
10°	4515.8	4575.4	4848.9	5509.7	6119.7	6456.2	6507.6	6210.4	5674.2	5077.0	4526.6
12.5°	4188.1	4257.8	4537.5	5253.7	5907.8	6280.1	6381.7	6135.2	5552.3	4893.6	4293.0
15°	4037.1	4117.0	4410.8	5088.6	5672.8	5966.0	6049.9	5943.6	5484.6	4864.5	4238.9
17.5°	4123.8	4210.4	4513.8	5102.8	5452.1	5577.4	5645.1	5688.4	5484.6	5039.8	4397.3
20°	4479.2	4572.7	4893.6	5247.0	5269.3	5222.6	5295.0	5447.4	5548.3	5372.9	4777.8
22.5°	4970.7	5080.4	5442.6	5494.1	5180.0	5003.2	5012.7	5251.7	5664.0	5795.4	5305.9
25°	5569.9	5704.0	6072.3	5862.4	5217.2	4872.6	4869.2	5090.6	5777.1	6218.5	5894.2
27.5°	6165.0	6312.6	6636.2	6311.9	5370.9	4848.9	4842.1	5041.8	5887.4	6594.9	6536.7
30°	6664.0	6807.5	7086.5	6637.6	5536.7	4904.4	4871.9	5094.0	5953.1	6839.4	7005.2
32.5°	7070.2	7185.3	7410.8	6861.7	5714.1	5012.0	4941.6	5233.4	6064.8	7045.8	7435.8
35°	7517.1	7638.2	7728.3	7075.0	5913.2	5167.1	5066.2	5454.8	6236.8	7255.7	7907.7
37.5°	8026.9	8147.4	8136.5	7269.9	6165.7	5423.7	5359.4	5805.5	6504.2	7463.6	8434.4
40°	8525.8	8649.0	8561.0	7483.2	6462.2	5846.8	5799.4	6332.3	6862.4	7729.6	9051.9
42.5°	8993.0	9126.4	8938.1	7685.0	6815.7	6380.3	6461.6	7010.6	7310.6	8057.3	9584.0
45°	9369.4	9505.5	9254.3	7881.3	7188.0	7027.6	7272.0	7762.1	7849.5	8334.2	9943.5
47.5°	9642.9	9771.6	9473.7	8077.6	7664.6	7819.0	8244.9	8550.2	8336.3	8574.6	10198.8
50°	9817.6	9917.8	9538.0	8323.4	8290.2	8742.5	9258.4	9407.3	8794.6	8791.2	10508.8
52.5°	9928.6	9974.0	9585.4	8580.0	8942.9	9747.9	10250.9	10297.6	9266.5	9029.5	10926.6
55°	10311.2	10347.7	9921.2	8890.7	9482.5	10628.7	11148.6	11105.3	9800.7	9496.0	11419.5
57.5°	10963.8	11002.4	10615.1	9337.6	9919.2	11173.0	11799.3	11877.1	10426.9	10151.4	11947.5
60°	11291.5	11363.3	11225.1	9903.6	10342.3	11521.0	12242.7	12491.2	11209.6	11015.3	12459.4
62.5°	10994.3	11098.5	11298.9	10531.2	10762.7	11712.6	12380.8	12711.2	12011.2	12022.0	12774.9
65°	10401.2	10484.5	10824.3	10875.1	11006.5	11688.9	12039.6	12403.9	12502.0	12946.8	12757.9
67.5°	9684.9	9716.0	10004.5	10902.2	10653.1	10976.7	11014.6	11284.0	12114.1	13274.5	12245.4
70°	8653.8	8670.7	8922.6	9995.7	9154.8	9225.9	9169.7	9224.5	10414.7	12476.3	10951.6
72.5°	6964.6	7007.3	7365.4	8301.1	6669.4	6464.3	6905.7	6881.3	8020.8	10540.7	8133.8
75°	5127.8	5201.6	5742.6	6686.3	4681.0	4234.1	4556.4	4642.4	5701.9	8153.5	5086.5
77.5°	3590.3	3645.1	4169.1	4915.2	3387.9	3027.7	2911.2	3013.5	3763.6	5898.3	2562.6
80°	2068.3	2088.6	2423.1	2838.1	2282.9	2612.0	2366.2	2436.6	2255.2	2624.2	1102.2
82.5°	1353.4	1356.8	1487.4	1689.2	1421.8	1652.0	1222.7	1563.3	1387.2	1054.1	358.8
85°	731.2	735.3	862.5	1199.0	805.0	455.0	267.4	549.1	857.8	241.7	98.2
87.5°	80.6	73.8	260.0	436.0	223.4	41.3	14.2	61.6	137.4	15.6	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: P324078

CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7
2.5°	5127.1	5070.9	4930.8	4782.5	4663.4	4551.7	4439.3	4301.8	4195.6	4173.9	4138.7
5°	5017.5	4839.4	4545.6	4250.4	4012.8	3712.8	3522.6	3374.3	3229.4	3220.6	3191.5
7.5°	4634.3	4400.0	3986.3	3578.1	3243.6	2957.9	2669.5	2476.6	2324.9	2271.4	2239.6
10°	4266.0	4002.6	3486.0	3020.2	2721.7	2469.1	2266.0	2064.3	1881.5	1755.5	1698.7
12.5°	4008.7	3717.6	3148.2	2746.7	2532.8	2293.1	2045.3	1793.5	1582.9	1431.2	1338.5
15°	3909.2	3598.4	3035.1	2638.4	2374.3	2071.0	1754.2	1466.4	1232.9	1095.4	1012.2
17.5°	4027.6	3666.1	3026.3	2506.4	2137.4	1760.3	1410.3	1070.4	850.3	746.1	692.6
20°	4328.2	3881.4	3022.9	2344.6	1855.7	1392.0	955.3	704.1	570.7	512.5	487.5
22.5°	4753.4	4156.3	3050.0	2184.8	1562.6	994.6	659.4	517.3	448.9	417.7	403.5
25°	5300.5	4542.2	3126.5	2039.9	1287.0	742.0	513.9	433.3	385.2	360.9	350.7
27.5°	5883.4	4986.3	3245.7	1914.0	1062.9	591.7	440.1	371.0	336.5	319.6	310.1
30°	6364.1	5500.9	3366.2	1773.8	900.4	515.9	402.8	338.5	298.6	287.7	278.9
32.5°	6784.5	5890.2	3451.5	1647.2	794.2	458.3	364.2	302.6	275.6	254.6	245.1
35°	7219.8	6214.5	3448.8	1558.5	721.0	415.0	331.7	270.8	238.3	213.9	206.5
37.5°	7691.1	6580.7	3389.9	1482.7	689.2	380.5	313.5	253.9	221.4	197.0	187.5
40°	8242.8	6965.3	3329.6	1411.6	680.4	352.7	300.6	240.3	205.8	182.1	172.6
42.5°	8780.4	7311.9	3276.8	1358.8	642.5	352.1	289.1	230.2	193.6	170.6	159.8
45°	9210.3	7634.9	3266.7	1327.0	602.6	364.2	283.0	223.4	184.2	161.1	151.0
47.5°	9567.8	7985.6	3331.7	1304.6	564.6	332.4	297.9	218.7	175.4	153.0	141.5
50°	9993.0	8416.2	3484.7	1268.1	524.7	299.2	341.2	220.0	167.9	144.9	132.7
52.5°	10586.0	9011.9	3709.4	1206.5	469.9	268.8	335.8	221.4	159.8	136.1	123.9
55°	11250.9	9756.0	3951.1	1104.2	393.4	228.8	287.7	211.9	144.2	126.6	115.1
57.5°	11949.6	10431.0	4094.7	982.4	312.8	197.7	230.2	193.0	127.3	113.7	106.3
60°	12059.2	10687.6	4029.0	832.7	248.5	172.0	170.6	196.3	113.7	100.2	94.8
62.5°	11786.4	10365.3	3711.5	699.4	207.8	151.0	140.1	171.3	102.9	89.4	84.0
65°	11261.7	9494.0	3196.9	630.3	193.0	129.3	116.4	120.5	90.0	77.9	73.1
67.5°	10531.9	8330.8	2624.8	591.0	190.9	111.0	99.5	91.4	77.9	67.7	63.6
70°	9039.7	6940.2	2094.1	569.4	185.5	93.4	84.0	74.5	65.0	57.5	54.2
72.5°	6653.2	4917.9	1628.9	545.7	186.9	74.5	73.1	61.6	52.1	44.7	43.3
75°	3844.2	2809.7	1068.4	442.1	178.1	57.5	60.9	43.3	36.6	31.1	31.1
77.5°	2048.7	1713.6	406.9	184.2	65.0	36.6	34.5	25.7	23.0	19.0	18.3
80°	893.0	754.2	122.5	51.5	35.9	19.6	12.9	11.5	10.2	8.1	7.4
82.5°	316.2	272.8	39.9	25.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	71.8	51.5	0.0	6.1	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: P324078

CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7
2.5°	4066.9	4052.0	3964.0	3967.4	3983.0	4005.3	3952.5	3976.9	4042.5	4105.5	4129.2
5°	3144.8	3148.2	3094.7	3127.9	3157.7	3178.0	3092.7	3094.0	3146.2	3217.2	3254.5
7.5°	2215.9	2210.5	2213.2	2292.4	2348.6	2308.0	2339.8	2229.5	2236.2	2287.0	2249.1
10°	1647.2	1572.7	1530.8	1590.3	1652.0	1629.6	1574.8	1538.9	1563.9	1620.1	1616.1
12.5°	1294.5	1187.5	1124.5	1081.9	1132.7	1090.7	1089.3	1058.2	1024.3	1030.4	1120.5
15°	973.6	895.7	821.2	752.9	751.5	737.3	664.8	583.6	576.8	580.9	627.6
17.5°	669.6	643.2	612.7	553.8	538.2	478.7	408.2	375.8	359.5	366.9	382.5
20°	470.5	460.4	463.8	431.9	409.6	352.7	311.4	298.6	295.9	303.3	310.8
22.5°	390.0	371.7	369.7	355.4	333.1	291.8	269.5	262.0	258.6	265.4	270.8
25°	341.2	322.9	315.5	306.7	283.0	254.6	241.0	234.3	230.9	234.9	238.3
27.5°	300.6	283.7	276.9	270.8	247.8	227.5	216.6	210.6	207.8	209.2	212.6
30°	270.1	255.2	246.4	239.0	219.4	205.1	195.7	189.6	186.9	186.9	190.2
32.5°	238.3	230.2	222.1	212.6	194.3	184.8	175.4	168.6	165.9	166.5	169.3
35°	198.4	195.7	197.7	188.9	173.3	165.2	155.7	148.3	146.2	146.9	149.6
37.5°	176.0	163.8	171.3	166.5	157.7	146.9	134.7	128.0	124.6	126.6	128.0
40°	161.8	146.9	141.5	146.2	144.9	127.3	116.4	109.7	107.0	107.6	109.0
42.5°	149.6	132.0	119.8	119.2	127.3	111.0	99.5	93.4	90.0	90.0	91.4
45°	138.1	119.2	104.3	92.8	107.0	94.1	83.3	77.9	73.8	73.8	74.5
47.5°	129.3	108.3	90.7	75.8	80.6	77.2	68.4	63.0	58.9	58.9	59.6
50°	121.2	97.5	78.5	63.6	60.3	63.6	55.5	49.4	46.7	46.0	47.4
52.5°	112.4	86.7	67.0	54.2	47.4	48.1	43.3	39.3	35.9	35.9	37.2
55°	103.6	77.9	58.2	46.0	39.3	35.9	34.5	31.8	29.1	29.1	30.5
57.5°	94.8	68.4	49.4	37.9	31.1	28.4	28.4	26.4	24.4	24.4	25.7
60°	86.7	58.9	40.6	31.1	24.4	23.7	24.4	22.3	21.0	21.0	22.3
62.5°	77.2	50.1	33.2	25.7	19.6	19.0	21.0	19.6	18.3	18.3	19.6
65°	65.7	42.7	26.4	19.6	14.9	14.9	17.6	16.2	14.9	14.9	16.2
67.5°	55.5	35.9	20.3	14.2	10.8	11.5	14.9	13.5	12.9	12.9	14.2
70°	46.0	27.8	14.2	8.8	6.1	8.8	11.5	11.5	11.5	11.5	12.9
72.5°	34.5	19.0	8.1	3.4	2.7	6.1	9.5	10.8	10.2	10.2	12.2
75°	22.3	10.8	2.7	0.0	0.0	3.4	7.4	8.8	8.8	8.1	10.2
77.5°	12.9	3.4	0.0	0.0	0.0	0.0	4.7	4.1	3.4	2.7	4.7
80°	3.4	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: P324078

CATALOG NUMBER: GAN-SA4B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7	4794.7
2.5°	4224.7	4304.6	4416.9	4536.1	4719.6	4865.1	5008.0	5130.5	5177.9	5197.6
5°	3343.8	3461.0	3625.5	3836.7	4167.8	4465.7	4767.6	5071.6	5203.6	5236.8
7.5°	2399.4	2549.0	2758.2	3022.9	3410.9	3796.8	4218.6	4664.7	4869.2	4920.6
10°	1775.8	1958.6	2198.3	2477.3	2847.6	3244.3	3704.0	4213.8	4447.4	4515.8
12.5°	1260.0	1507.1	1828.0	2167.2	2488.1	2842.2	3307.3	3869.2	4114.3	4188.1
15°	740.0	979.0	1358.8	1813.1	2224.0	2582.9	3055.4	3692.5	3962.7	4037.1
17.5°	424.5	543.7	830.7	1337.1	1895.0	2391.9	2976.2	3736.5	4054.7	4123.8
20°	324.3	362.2	478.7	861.2	1510.5	2204.4	2976.2	3985.7	4377.7	4479.2
22.5°	283.7	311.4	358.8	513.9	1111.7	2003.3	3010.7	4345.9	4858.4	4970.7
25°	251.9	276.9	317.5	386.6	758.3	1764.3	3092.7	4788.0	5424.4	5569.9
27.5°	225.5	249.1	285.7	338.5	518.6	1475.9	3203.0	5306.6	6048.6	6165.0
30°	201.8	224.1	257.3	294.5	400.1	1148.9	3297.1	5795.4	6538.7	6664.0
32.5°	179.4	199.7	229.5	257.3	327.7	849.7	3307.3	6182.6	6945.6	7070.2
35°	158.4	176.7	203.8	225.5	271.5	670.9	3149.5	6518.4	7352.5	7517.1
37.5°	138.1	155.7	179.4	195.7	239.0	547.0	2908.5	6892.8	7874.5	8026.9
40°	119.2	134.7	159.1	169.9	226.1	420.4	2646.5	7285.5	8386.4	8525.8
42.5°	101.6	116.4	140.1	161.1	198.4	314.1	2363.5	7653.8	8846.7	8993.0
45°	84.6	100.2	123.9	170.6	164.5	234.9	2060.9	7898.2	9210.3	9369.4
47.5°	68.4	86.0	118.5	162.5	131.3	172.6	1821.2	8129.8	9485.9	9642.9
50°	54.8	72.4	133.4	144.9	107.6	132.0	1721.0	8336.9	9666.6	9817.6
52.5°	44.7	60.9	125.9	111.0	90.0	109.0	1775.2	8672.7	9833.9	9928.6
55°	37.2	48.1	75.8	77.2	76.5	92.8	1842.2	9154.8	10266.5	10311.2
57.5°	32.5	38.6	52.8	59.6	64.3	82.6	1843.6	9846.7	10936.1	10963.8
60°	27.8	33.9	44.0	48.1	55.5	73.8	1776.5	10088.4	11199.4	11291.5
62.5°	24.4	29.8	36.6	39.9	46.7	66.3	1619.5	9738.4	10837.9	10994.3
65°	21.7	27.1	30.5	33.9	41.3	59.6	1360.8	9038.3	10238.0	10401.2
67.5°	19.0	23.7	27.1	30.5	37.2	52.8	1002.0	8225.2	9549.5	9684.9
70°	16.9	21.0	24.4	27.1	32.5	44.7	608.0	6979.5	8597.6	8653.8
72.5°	16.2	19.0	22.3	24.4	28.4	39.3	308.0	5129.2	6873.2	6964.6
75°	14.2	16.9	20.3	21.7	25.1	33.9	125.3	3368.9	4980.9	5127.8
77.5°	11.5	15.6	18.3	19.6	21.7	27.8	63.6	2153.0	3495.5	3590.3
80°	4.1	11.5	15.6	16.2	18.3	20.3	42.0	1178.7	2027.7	2068.3
82.5°	0.0	7.4	12.2	11.5	12.9	15.6	27.1	560.6	1338.5	1353.4
85°	0.0	3.4	9.5	7.4	5.4	10.8	9.5	122.5	702.1	731.2
87.5°	0.0	0.0	0.7	3.4	2.7	4.1	1.4	0.7	63.6	80.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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