

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: P324099

Luminaire Tested: **GAN-SA5D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324099
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-SA5D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 24042 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

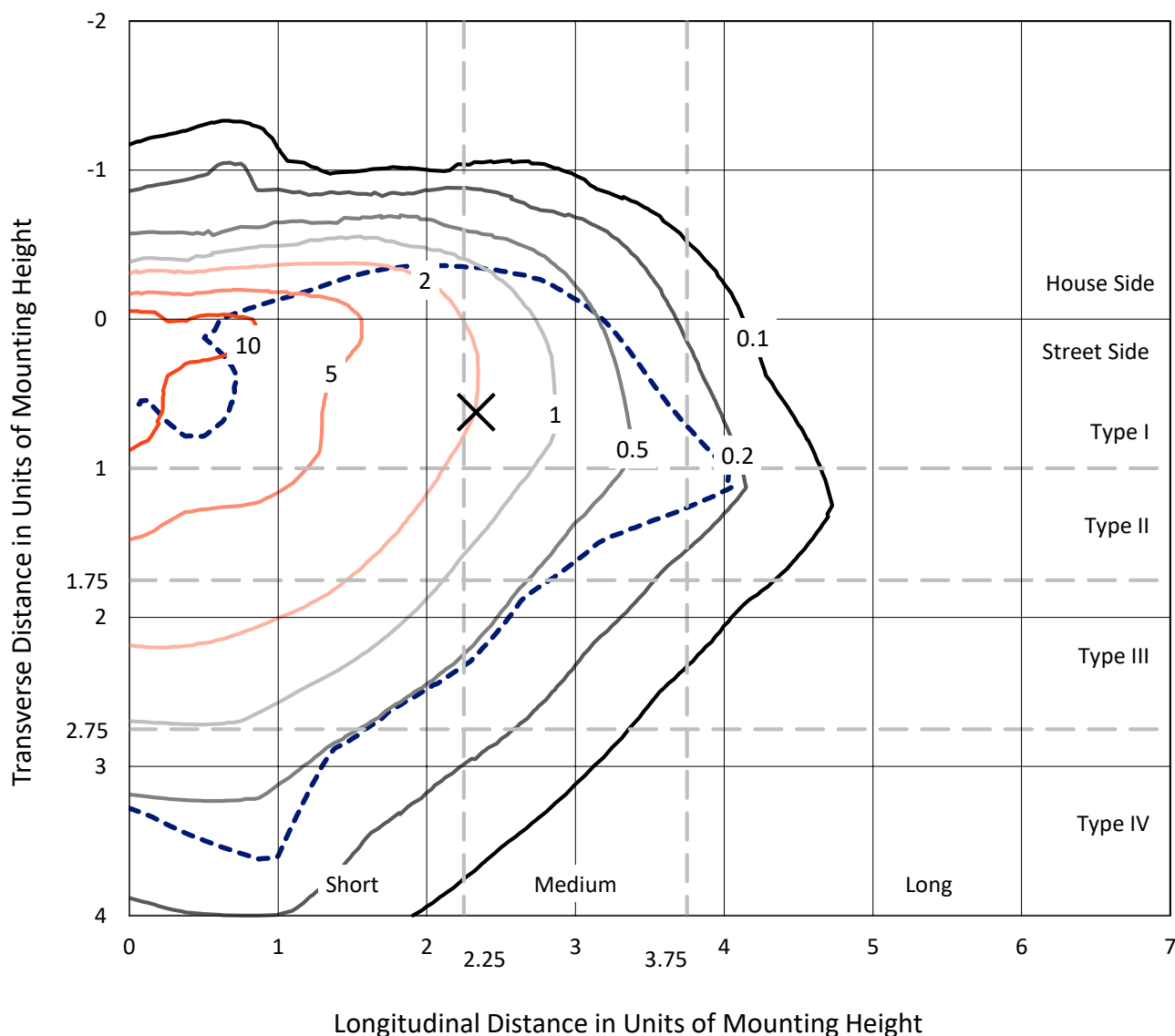
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324099
 CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

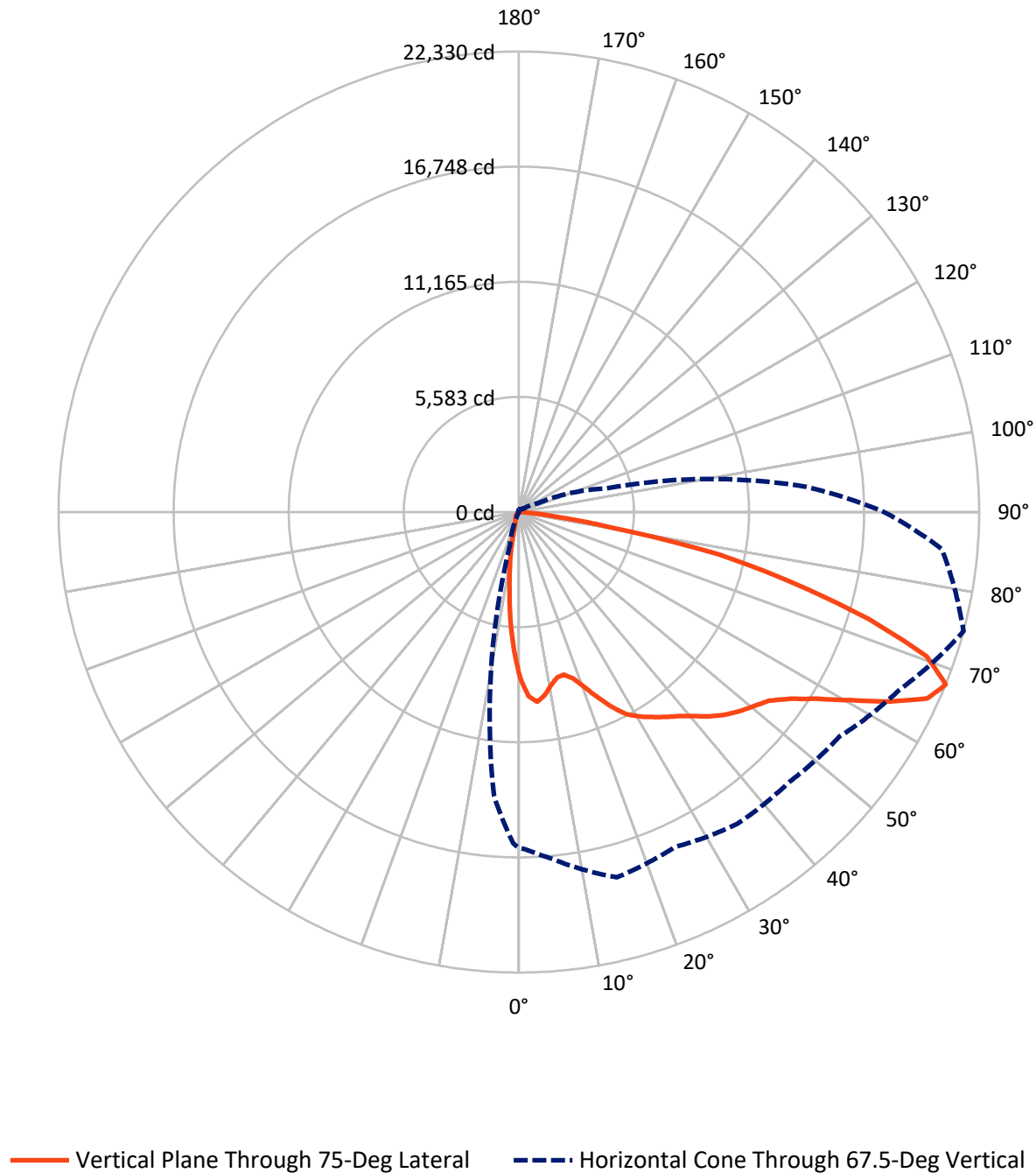
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P324099
CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324099

CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

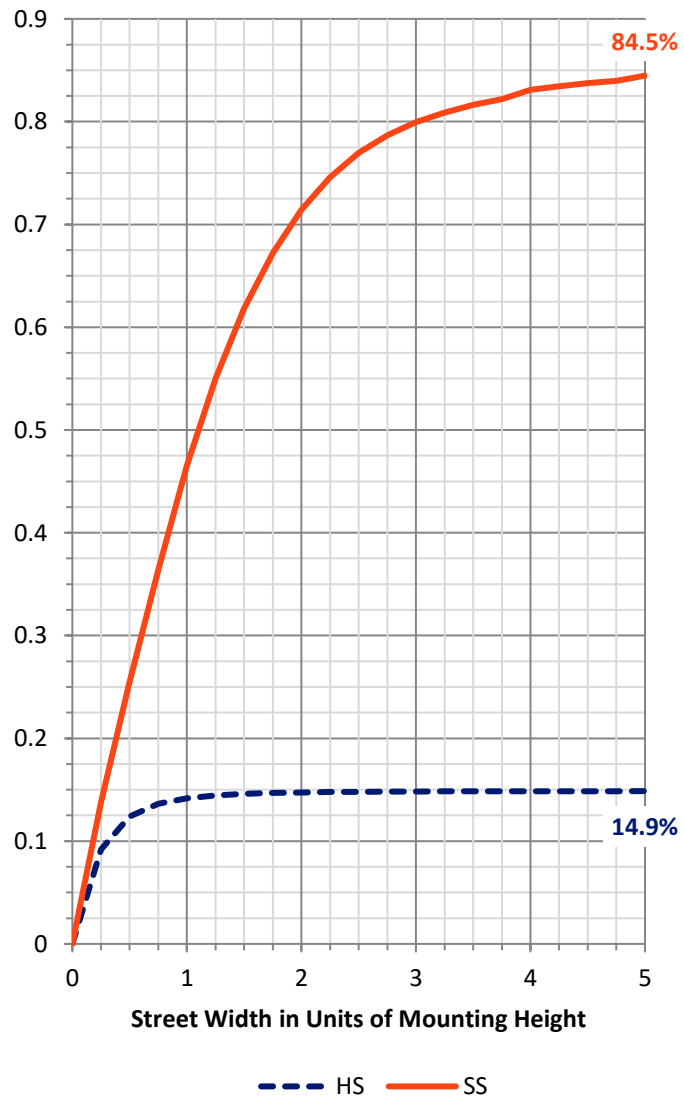
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3607.8	0.0	3607.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20434.2	0.0	20434.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	24042.0	0.0	24042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.8	2.5
10°-20°	1204.7	5.0
20°-30°	1704.3	7.1
30°-40°	2505.8	10.4
40°-50°	3601.6	15.0
50°-60°	5070.1	21.1
60°-70°	5921.5	24.6
70°-80°	3020.9	12.6
80°-90°	401.3	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°	24042.0	100.0
0°-180°	24042.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324099

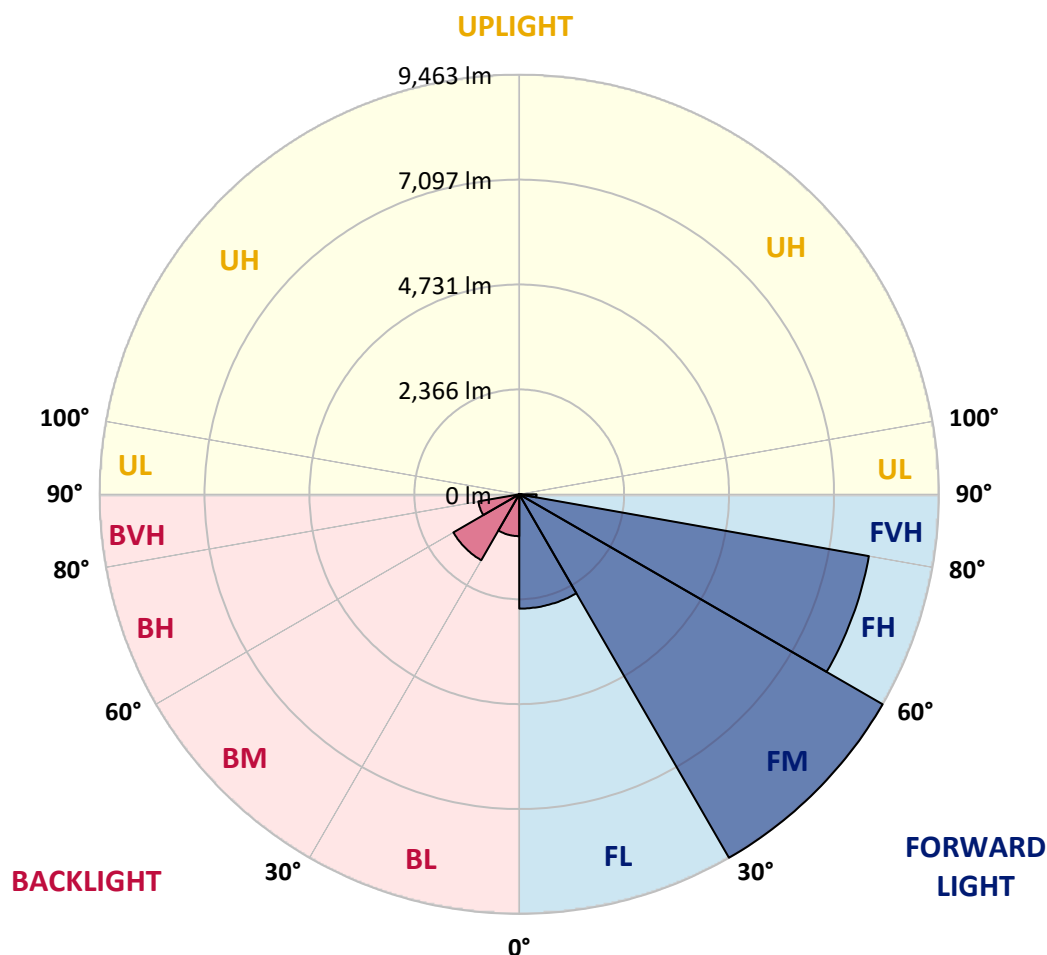
CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.3	10.7			
FM	(30°-60°)	9462.5	39.4			
FH	(60°-80°)	8005.3	33.3			G4/12000
FVH	(80°-90°)	389.1	1.6			G3/500
BL	(0°-30°)	943.5	3.9	B2/1000		
BM	(30°-60°)	1715.0	7.1	B2/2500		
BH	(60°-80°)	937.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	12.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





REPORT NUMBER: P324099

CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7
2.5°	8743.3	8757.0	8827.6	8991.6	9170.4	9184.1	9304.8	9180.7	9138.5	8938.1	8730.8
5°	8809.4	8861.8	9104.4	9586.1	10004.1	10138.5	10234.1	9990.4	9734.2	9244.4	8721.7
7.5°	8277.5	8365.2	8746.7	9651.0	10398.1	10728.4	10791.1	10409.5	9782.0	8975.7	8189.8
10°	7596.5	7696.7	8156.8	9268.4	10294.5	10860.5	10947.1	10447.1	9545.1	8540.6	7614.7
12.5°	7045.2	7162.5	7632.9	8837.9	9938.0	10564.4	10735.3	10320.7	9340.1	8232.0	7221.8
15°	6791.3	6925.6	7419.9	8560.0	9542.8	10036.0	10177.2	9998.4	9226.2	8183.0	7130.6
17.5°	6937.0	7082.8	7593.0	8583.9	9171.6	9382.2	9496.1	9569.0	9226.2	8478.0	7397.1
20°	7535.0	7692.1	8232.0	8826.5	8864.0	8785.5	8907.3	9163.6	9333.3	9038.3	8037.2
22.5°	8361.8	8546.3	9155.6	9242.2	8713.7	8416.5	8432.4	8834.4	9528.0	9749.0	8925.5
25°	9369.7	9595.2	10214.8	9861.7	8776.4	8196.7	8191.0	8563.4	9718.2	10460.8	9915.3
27.5°	10370.8	10619.1	11163.5	10618.0	9034.9	8156.8	8145.4	8481.4	9903.9	11094.0	10996.1
30°	11210.2	11451.6	11920.9	11165.8	9313.9	8250.2	8195.5	8569.1	10014.3	11505.2	11784.2
32.5°	11893.5	12087.1	12466.4	11542.7	9612.3	8431.3	8312.8	8803.7	10202.3	11852.5	12508.5
35°	12645.2	12849.1	13000.5	11901.5	9947.1	8692.1	8522.4	9176.1	10491.5	12205.6	13302.3
37.5°	13502.8	13705.5	13687.3	12229.5	10371.9	9123.7	9015.5	9766.1	10941.4	12555.2	14188.4
40°	14342.1	14549.4	14401.4	12588.2	10870.8	9835.5	9755.8	10652.1	11543.9	13002.8	15227.1
42.5°	15128.0	15352.4	15035.7	12927.6	11465.3	10733.0	10869.6	11793.3	12297.8	13554.0	16122.2
45°	15761.2	15990.1	15567.6	13257.9	12091.7	11821.8	12232.9	13057.5	13204.4	14019.8	16727.0
47.5°	16221.3	16437.7	15936.6	13588.2	12893.5	13153.1	13869.5	14383.2	14023.3	14424.2	17156.4
50°	16515.2	16683.7	16044.8	14001.6	13945.8	14706.6	15574.4	15825.0	14794.3	14788.6	17678.0
52.5°	16701.9	16778.3	16124.5	14433.3	15043.7	16397.9	17244.1	17322.6	15588.1	15189.5	18380.7
55°	17345.4	17406.9	16689.4	14956.0	15951.4	17879.6	18754.2	18681.4	16486.7	15974.2	19209.8
57.5°	18443.3	18508.2	17856.8	15707.7	16686.0	18795.2	19848.7	19979.7	17540.2	17076.6	20098.1
60°	18994.6	19115.3	18882.9	16659.8	17397.8	19380.6	20594.7	21012.7	18856.7	18529.9	20959.2
62.5°	18494.6	18670.0	19007.1	17715.6	18105.1	19702.9	20827.0	21382.8	20205.2	20223.4	21489.9
65°	17496.9	17637.0	18208.7	18294.1	18515.1	19663.1	20253.0	20865.8	21030.9	21779.2	21461.4
67.5°	16291.9	16344.3	16829.5	18339.7	17920.6	18465.0	18528.7	18982.0	20378.3	22330.4	20599.3
70°	14557.4	14585.9	15009.5	16814.7	15400.2	15519.8	15425.2	15517.5	17519.7	20987.6	18422.8
72.5°	11715.8	11787.6	12390.1	13964.0	11219.3	10874.2	11616.8	11575.8	13492.5	17731.5	13682.7
75°	8626.0	8750.2	9660.1	11247.8	7874.3	7122.7	7664.8	7809.4	9591.8	13715.8	8556.5
77.5°	6039.6	6131.8	7013.3	8268.4	5699.0	5093.2	4897.3	5069.2	6331.1	9922.1	4310.7
80°	3479.3	3513.5	4076.1	4774.3	3840.4	4393.9	3980.5	4098.9	3793.7	4414.4	1854.1
82.5°	2276.7	2282.4	2502.2	2841.6	2391.7	2778.9	2056.9	2629.7	2333.6	1773.3	603.6
85°	1230.0	1236.8	1451.0	2017.0	1354.2	765.3	449.9	923.6	1443.0	406.6	165.1
87.5°	135.5	124.1	437.3	733.5	375.8	69.5	23.9	103.6	231.2	26.2	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: P324099

CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7
2.5°	8624.9	8530.4	8294.6	8045.2	7844.7	7656.8	7467.8	7236.6	7057.8	7021.3	6962.1
5°	8440.4	8140.8	7646.6	7150.0	6750.3	6245.7	5925.7	5676.3	5432.5	5417.7	5368.8
7.5°	7795.8	7401.7	6705.8	6019.1	5456.5	4975.8	4490.7	4166.1	3911.0	3821.0	3767.5
10°	7176.2	6733.2	5864.2	5080.6	4578.4	4153.6	3811.9	3472.5	3165.0	2953.2	2857.5
12.5°	6743.4	6253.7	5295.9	4620.5	4260.6	3857.4	3440.6	3016.9	2662.7	2407.6	2251.6
15°	6576.0	6053.2	5105.7	4438.3	3994.1	3483.9	2950.9	2466.9	2073.9	1842.7	1702.7
17.5°	6775.3	6167.1	5090.9	4216.2	3595.5	2961.1	2372.3	1800.6	1430.5	1255.1	1165.1
20°	7281.0	6529.3	5085.2	3944.0	3121.7	2341.6	1607.0	1184.5	960.1	862.1	820.0
22.5°	7996.2	6991.7	5130.7	3675.2	2628.6	1673.0	1109.3	870.1	755.1	702.7	678.8
25°	8916.4	7640.9	5259.4	3431.5	2165.0	1248.2	864.4	728.9	648.0	607.0	589.9
27.5°	9897.0	8388.0	5459.9	3219.7	1788.1	995.4	740.3	624.1	566.0	537.6	521.6
30°	10705.6	9253.6	5662.6	2983.9	1514.7	867.8	677.6	569.4	502.3	484.0	469.2
32.5°	11412.9	9908.4	5806.1	2770.9	1335.9	771.0	612.7	509.1	463.5	428.2	412.3
35°	12145.2	10454.0	5801.5	2621.7	1212.9	698.1	558.1	455.6	400.9	359.9	347.4
37.5°	12937.9	11070.1	5702.5	2494.2	1159.4	640.1	527.3	427.1	372.4	331.4	315.5
40°	13866.1	11717.0	5601.1	2374.6	1144.6	593.4	505.7	404.3	346.2	306.4	290.4
42.5°	14770.4	12300.1	5512.3	2285.8	1080.8	592.2	486.3	387.2	325.7	287.0	268.8
45°	15493.6	12843.4	5495.2	2232.2	1013.6	612.7	476.1	375.8	309.8	271.1	254.0
47.5°	16094.9	13433.3	5604.5	2194.7	949.8	559.2	501.1	367.9	295.0	257.4	238.0
50°	16810.1	14157.6	5861.9	2133.2	882.6	503.4	574.0	370.1	282.4	243.7	223.2
52.5°	17807.8	15159.9	6240.0	2029.5	790.4	452.1	564.9	372.4	268.8	228.9	208.4
55°	18926.2	16411.5	6646.6	1857.5	661.7	384.9	484.0	356.5	242.6	213.0	193.6
57.5°	20101.6	17547.0	6888.1	1652.5	526.2	332.6	387.2	324.6	214.1	191.3	178.8
60°	20286.1	17978.7	6777.6	1400.8	418.0	289.3	287.0	330.3	191.3	168.6	159.4
62.5°	19827.1	17436.5	6243.4	1176.5	349.6	254.0	235.8	288.1	173.1	150.3	141.2
65°	18944.4	15970.8	5377.9	1060.3	324.6	217.5	195.9	202.7	151.5	131.0	123.0
67.5°	17716.7	14014.1	4415.5	994.3	321.2	186.8	167.4	153.8	131.0	113.9	107.1
70°	15206.6	11674.8	3522.6	957.8	312.1	157.2	141.2	125.3	109.3	96.8	91.1
72.5°	11192.0	8273.0	2740.2	918.0	314.3	125.3	123.0	103.6	87.7	75.2	72.9
75°	6466.7	4726.4	1797.2	743.7	299.5	96.8	102.5	72.9	61.5	52.4	52.4
77.5°	3446.3	2882.6	684.5	309.8	109.3	61.5	58.1	43.3	38.7	31.9	30.8
80°	1502.2	1268.7	206.1	86.6	60.4	33.0	21.6	19.4	17.1	13.7	12.5
82.5°	531.9	459.0	67.2	42.1	26.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	120.7	86.6	0.0	10.3	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: P324099

CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7
2.5°	6841.4	6816.3	6668.3	6673.9	6700.1	6737.7	6648.9	6689.9	6800.4	6906.3	6946.1
5°	5290.2	5295.9	5205.9	5261.7	5311.8	5346.0	5202.5	5204.8	5292.5	5412.0	5474.7
7.5°	3727.6	3718.5	3723.1	3856.3	3950.8	3882.5	3936.0	3750.4	3761.8	3847.2	3783.4
10°	2770.9	2645.7	2575.0	2675.3	2778.9	2741.3	2649.1	2588.7	2630.9	2725.4	2718.6
12.5°	2177.6	1997.6	1891.7	1820.0	1905.4	1834.8	1832.5	1780.1	1723.2	1733.4	1884.9
15°	1637.7	1506.8	1381.5	1266.5	1264.2	1240.3	1118.4	981.7	970.3	977.2	1055.8
17.5°	1126.4	1082.0	1030.7	931.6	905.4	805.2	686.8	632.1	604.8	617.3	643.5
20°	791.5	774.5	780.1	726.6	689.0	593.4	523.9	502.3	497.7	510.2	522.8
22.5°	656.0	625.3	621.8	597.9	560.3	490.9	453.3	440.8	435.1	446.4	455.6
25°	574.0	543.3	530.7	515.9	476.1	428.2	405.4	394.1	388.4	395.2	400.9
27.5°	505.7	477.2	465.8	455.6	416.8	382.7	364.4	354.2	349.6	351.9	357.6
30°	454.4	429.4	414.6	402.0	369.0	345.1	329.1	318.9	314.3	314.3	320.0
32.5°	400.9	387.2	373.6	357.6	326.9	310.9	295.0	283.6	279.0	280.2	284.7
35°	333.7	329.1	332.6	317.8	291.6	277.9	261.9	249.4	246.0	247.1	251.7
37.5°	296.1	275.6	288.1	280.2	265.4	247.1	226.6	215.3	209.6	213.0	215.3
40°	272.2	247.1	238.0	246.0	243.7	214.1	195.9	184.5	179.9	181.1	183.4
42.5°	251.7	222.1	201.6	200.4	214.1	186.8	167.4	157.2	151.5	151.5	153.8
45°	232.3	200.4	175.4	156.0	179.9	158.3	140.1	131.0	124.1	124.1	125.3
47.5°	217.5	182.2	152.6	127.6	135.5	129.8	115.0	105.9	99.1	99.1	100.2
50°	203.9	164.0	132.1	107.1	101.4	107.1	93.4	83.1	78.6	77.4	79.7
52.5°	189.1	145.8	112.8	91.1	79.7	80.9	72.9	66.1	60.4	60.4	62.6
55°	174.3	131.0	97.9	77.4	66.1	60.4	58.1	53.5	49.0	49.0	51.3
57.5°	159.4	115.0	83.1	63.8	52.4	47.8	47.8	44.4	41.0	41.0	43.3
60°	145.8	99.1	68.3	52.4	41.0	39.9	41.0	37.6	35.3	35.3	37.6
62.5°	129.8	84.3	55.8	43.3	33.0	31.9	35.3	33.0	30.8	30.8	33.0
65°	110.5	71.8	44.4	33.0	25.1	25.1	29.6	27.3	25.1	25.1	27.3
67.5°	93.4	60.4	34.2	23.9	18.2	19.4	25.1	22.8	21.6	21.6	23.9
70°	77.4	46.7	23.9	14.8	10.3	14.8	19.4	19.4	19.4	19.4	21.6
72.5°	58.1	31.9	13.7	5.7	4.6	10.3	15.9	18.2	17.1	17.1	20.5
75°	37.6	18.2	4.6	0.0	0.0	5.7	12.5	14.8	14.8	13.7	17.1
77.5°	21.6	5.7	0.0	0.0	0.0	0.0	8.0	6.8	5.7	4.6	8.0
80°	5.7	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: P324099

CATALOG NUMBER: GAN-SA5D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7	8065.7
2.5°	7106.7	7241.1	7430.2	7630.6	7939.3	8184.1	8424.4	8630.6	8710.3	8743.3
5°	5625.0	5822.0	6098.8	6454.1	7011.1	7512.2	8020.1	8531.5	8753.6	8809.4
7.5°	4036.3	4288.0	4639.9	5085.2	5737.8	6386.9	7096.5	7847.0	8191.0	8277.5
10°	2987.3	3294.8	3698.0	4167.2	4790.2	5457.6	6230.9	7088.5	7481.4	7596.5
12.5°	2119.5	2535.2	3075.0	3645.6	4185.5	4781.1	5563.5	6508.8	6921.1	7045.2
15°	1244.8	1646.8	2285.8	3050.0	3741.3	4344.9	5139.8	6211.6	6666.0	6791.3
17.5°	714.1	914.5	1397.4	2249.3	3187.8	4023.7	5006.6	6285.6	6820.9	6937.0
20°	545.5	609.3	805.2	1448.7	2540.9	3708.3	5006.6	6704.7	7364.1	7535.0
22.5°	477.2	523.9	603.6	864.4	1870.1	3370.0	5064.7	7310.6	8172.7	8361.8
25°	423.7	465.8	534.1	650.3	1275.6	2968.0	5202.5	8054.3	9124.9	9369.7
27.5°	379.3	419.1	480.6	569.4	872.4	2482.8	5388.1	8926.7	10174.9	10370.8
30°	339.4	377.0	432.8	495.4	673.1	1932.7	5546.4	9749.0	10999.5	11210.2
32.5°	301.8	336.0	386.1	432.8	551.2	1429.3	5563.5	10400.4	11684.0	11893.5
35°	266.5	297.3	342.8	379.3	456.7	1128.6	5298.2	10965.3	12368.4	12645.2
37.5°	232.3	261.9	301.8	329.1	402.0	920.2	4892.7	11595.1	13246.5	13502.8
40°	200.4	226.6	267.6	285.9	380.4	707.3	4452.0	12255.7	14107.5	14342.1
42.5°	170.8	195.9	235.8	271.1	333.7	528.4	3975.9	12875.2	14882.0	15128.0
45°	142.4	168.6	208.4	287.0	276.8	395.2	3466.8	13286.4	15493.6	15761.2
47.5°	115.0	144.6	199.3	273.3	220.9	290.4	3063.6	13675.9	15957.1	16221.3
50°	92.3	121.9	224.4	243.7	181.1	222.1	2895.1	14024.4	16261.2	16515.2
52.5°	75.2	102.5	211.8	186.8	151.5	183.4	2986.2	14589.3	16542.5	16701.9
55°	62.6	80.9	127.6	129.8	128.7	156.0	3098.9	15400.2	17270.3	17345.4
57.5°	54.7	64.9	88.8	100.2	108.2	138.9	3101.2	16564.1	18396.6	18443.3
60°	46.7	56.9	74.0	80.9	93.4	124.1	2988.5	16970.7	18839.7	18994.6
62.5°	41.0	50.1	61.5	67.2	78.6	111.6	2724.2	16381.9	18231.5	18494.6
65°	36.4	45.6	51.3	56.9	69.5	100.2	2289.2	15204.3	17222.4	17496.9
67.5°	31.9	39.9	45.6	51.3	62.6	88.8	1685.6	13836.5	16064.2	16291.9
70°	28.5	35.3	41.0	45.6	54.7	75.2	1022.7	11740.9	14462.9	14557.4
72.5°	27.3	31.9	37.6	41.0	47.8	66.1	518.2	8628.3	11562.1	11715.8
75°	23.9	28.5	34.2	36.4	42.1	56.9	210.7	5667.2	8378.9	8626.0
77.5°	19.4	26.2	30.8	33.0	36.4	46.7	107.1	3621.7	5880.1	6039.6
80°	6.8	19.4	26.2	27.3	30.8	34.2	70.6	1982.8	3411.0	3479.3
82.5°	0.0	12.5	20.5	19.4	21.6	26.2	45.6	943.0	2251.6	2276.7
85°	0.0	5.7	15.9	12.5	9.1	18.2	15.9	206.1	1181.0	1230.0
87.5°	0.0	0.0	1.1	5.7	4.6	6.8	2.3	1.1	107.1	135.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)