

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: P324103

Luminaire Tested: **GAN-SA9D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324103
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 43005 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

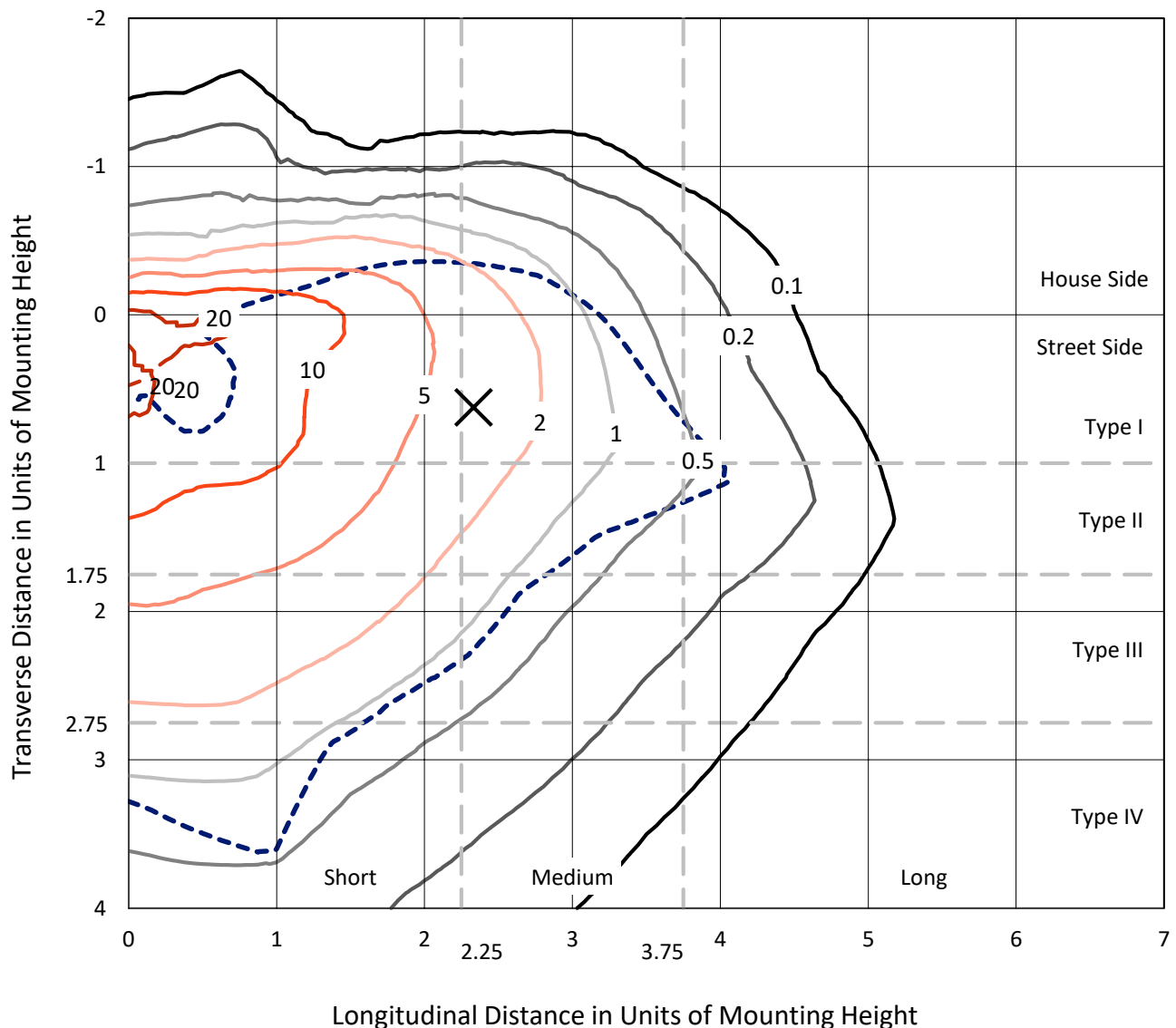
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324103
 CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

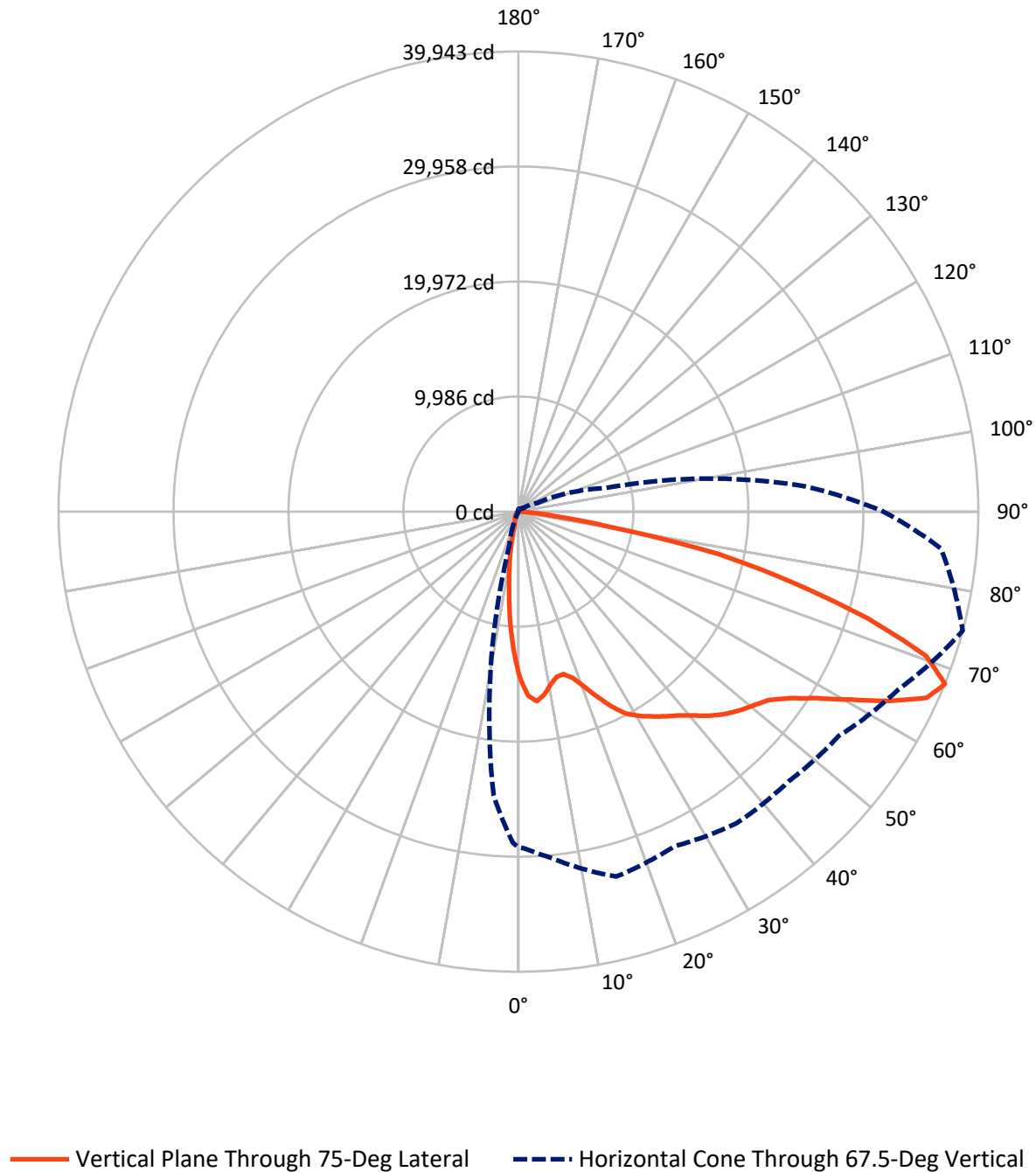
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P324103
CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324103

CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

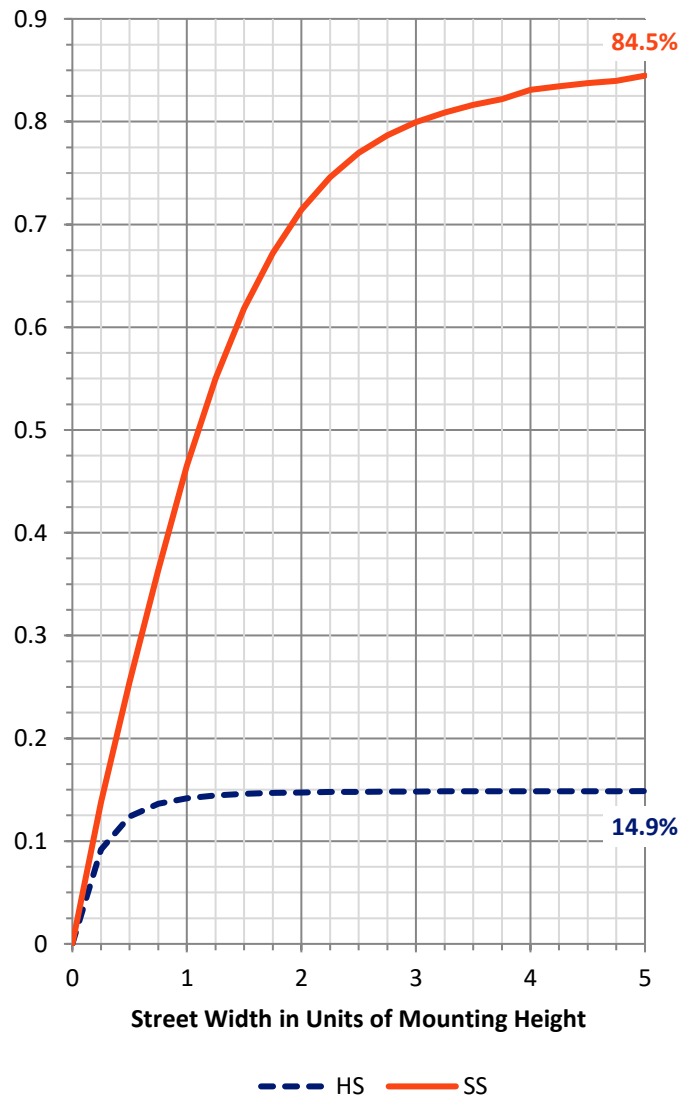
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6453.4	0.0	6453.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36551.7	0.0	36551.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	43005.0	0.0	43005.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.4	2.5
10°-20°	2154.9	5.0
20°-30°	3048.5	7.1
30°-40°	4482.2	10.4
40°-50°	6442.4	15.0
50°-60°	9069.2	21.1
60°-70°	10592.0	24.6
70°-80°	5403.7	12.6
80°-90°	717.8	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°	43005.0	100.0
0°-180°	43005.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324103

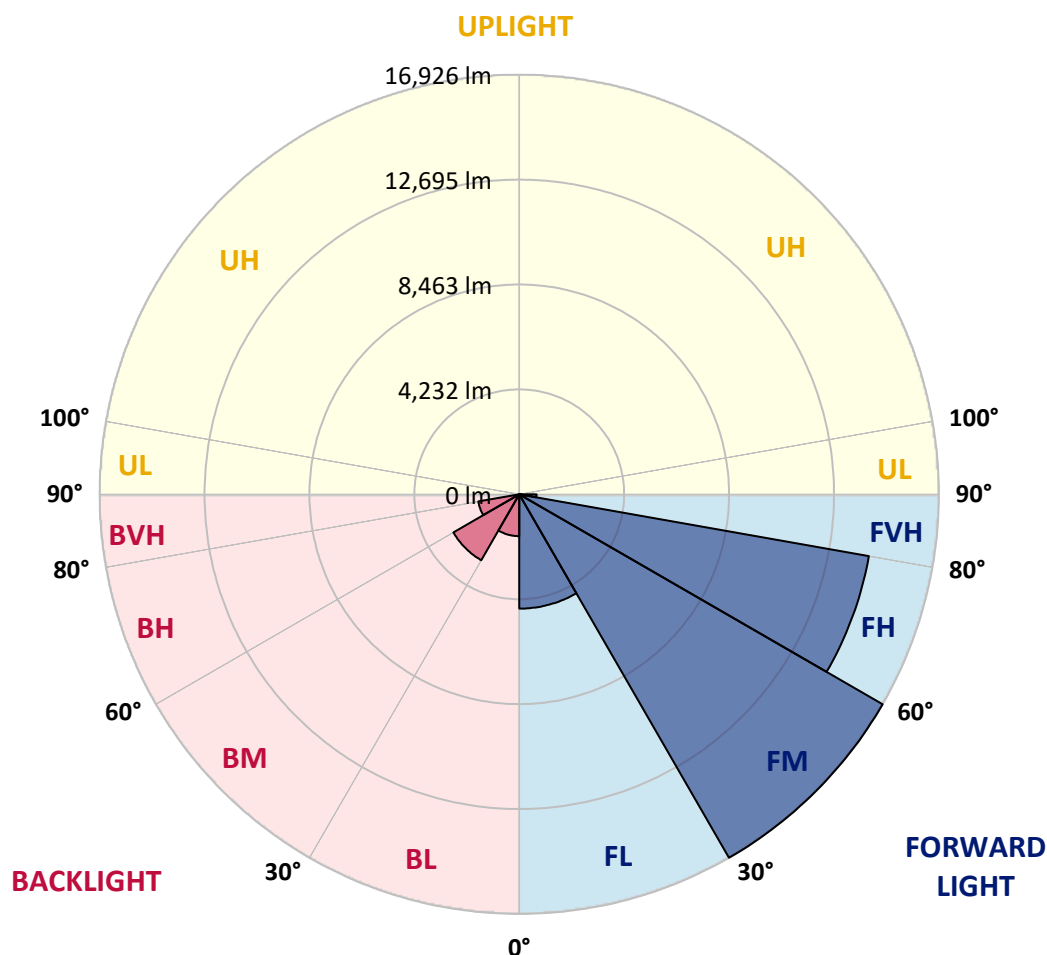
CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4610.1	10.7			
FM	(30°-60°)	16926.0	39.4			
FH	(60°-80°)	14319.4	33.3			G5
FVH	(80°-90°)	696.1	1.6			G4/750
BL	(0°-30°)	1687.6	3.9	B3/2500		
BM	(30°-60°)	3067.7	7.1	B3/5000		
BH	(60°-80°)	1676.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	21.8	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: P324103

CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4
2.5°	15639.6	15664.0	15790.3	16083.7	16403.5	16428.0	16643.9	16421.9	16346.5	15987.9	15617.2
5°	15757.7	15851.4	16285.4	17147.1	17894.8	18135.1	18306.3	17870.3	17411.9	16535.9	15600.9
7.5°	14806.4	14963.2	15645.7	17263.2	18599.6	19190.4	19302.5	18620.0	17497.5	16055.2	14649.5
10°	13588.1	13767.4	14590.4	16578.7	18414.2	19426.7	19581.6	18687.2	17073.8	15277.0	13620.7
12.5°	12602.1	12811.9	13653.3	15808.7	17776.6	18897.1	19202.6	18461.1	16707.1	14724.9	12917.9
15°	12147.8	12388.2	13272.4	15311.6	17069.7	17951.8	18204.4	17884.6	16503.3	14637.3	12754.9
17.5°	12408.6	12669.3	13582.0	15354.4	16405.6	16782.4	16986.2	17116.5	16503.3	15164.9	13231.6
20°	13478.1	13759.2	14724.9	15788.3	15855.5	15715.0	15932.9	16391.3	16694.8	16167.2	14376.5
22.5°	14957.1	15287.1	16377.0	16531.9	15586.6	15054.9	15083.4	15802.6	17043.2	17438.4	15965.5
25°	16760.0	17163.4	18271.6	17640.1	15698.7	14661.7	14651.5	15317.7	17383.4	18711.7	17735.9
27.5°	18550.7	18994.8	19968.6	18992.8	16161.1	14590.4	14570.0	15171.0	17715.5	19844.4	19669.2
30°	20052.1	20484.0	21323.4	19972.7	16660.2	14757.5	14659.7	15327.9	17913.1	20579.8	21078.9
32.5°	21274.5	21620.8	22299.2	20647.0	17194.0	15081.4	14869.5	15747.5	18249.2	21201.1	22374.6
35°	22619.0	22983.7	23254.6	21288.7	17792.9	15547.9	15244.4	16413.7	18766.7	21832.7	23794.5
37.5°	24153.0	24515.7	24483.1	21875.4	18552.8	16320.0	16126.5	17469.0	19571.4	22458.1	25379.4
40°	25654.4	26025.2	25760.4	22517.2	19445.1	17593.2	17450.6	19053.9	20649.0	23258.7	27237.3
42.5°	27060.1	27461.4	26895.1	23124.2	20508.5	19198.6	19443.0	21095.2	21997.7	24244.7	28838.6
45°	28192.8	28602.3	27846.5	23715.0	21628.9	21146.1	21881.6	23356.5	23619.3	25077.9	29920.3
47.5°	29015.8	29402.9	28506.5	24305.8	23063.1	23527.6	24809.0	25727.8	25084.0	25801.1	30688.4
50°	29541.4	29842.9	28700.1	25045.3	24945.5	26306.3	27858.7	28306.9	26463.2	26453.0	31621.4
52.5°	29875.5	30012.0	28842.7	25817.4	26909.4	29331.6	30845.2	30985.8	27883.1	27170.1	32878.4
55°	31026.5	31136.5	29853.1	26752.5	28533.0	31982.0	33546.6	33416.2	29490.5	28573.8	34361.4
57.5°	32990.4	33106.5	31941.2	28097.0	29847.0	33619.9	35504.3	35738.6	31374.9	30545.8	35950.4
60°	33976.4	34192.3	33776.8	29800.1	31120.2	34667.0	36838.7	37586.3	33729.9	33145.2	37490.6
62.5°	33082.1	33395.8	33998.8	31688.6	32385.3	35243.5	37254.3	38248.4	36141.9	36174.5	38439.9
65°	31297.5	31548.1	32570.7	32723.5	33118.7	35172.2	36227.5	37323.5	37618.9	38957.4	38389.0
67.5°	29142.1	29235.8	30103.7	32805.0	32055.3	33029.1	33143.2	33954.0	36451.6	39943.4	36846.8
70°	26039.5	26090.4	26848.2	30077.2	27547.0	27760.9	27591.8	27756.8	31338.2	37541.5	32953.7
72.5°	20956.7	21085.0	22162.7	24978.1	20068.4	19451.2	20779.4	20706.1	24134.7	31717.1	24474.9
75°	15429.7	15651.8	17279.5	20119.4	14085.2	12740.6	13710.3	13969.1	17157.3	24534.0	15305.5
77.5°	10803.3	10968.3	12545.1	14790.1	10194.1	9110.4	8760.0	9067.6	11324.8	17748.1	7710.8
80°	6223.6	6284.8	7291.1	8539.9	6869.4	7859.5	7120.0	7331.9	6785.9	7896.2	3316.6
82.5°	4072.4	4082.5	4475.7	5082.8	4278.1	4970.8	3679.2	4703.9	4174.2	3171.9	1079.7
85°	2200.2	2212.4	2595.4	3607.9	2422.2	1369.0	804.7	1652.2	2581.1	727.3	295.4
87.5°	242.4	222.1	782.3	1312.0	672.3	124.3	42.8	185.4	413.6	46.9	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: P324103

CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4
2.5°	15427.7	15258.6	14836.9	14390.8	14032.2	13696.1	13357.9	12944.4	12624.5	12559.3	12453.4
5°	15097.7	14561.9	13677.8	12789.5	12074.5	11172.0	10599.5	10153.4	9717.4	9691.0	9603.4
7.5°	13944.6	13239.8	11995.0	10766.6	9760.2	8900.5	8032.7	7452.1	6995.7	6834.8	6739.1
10°	12836.4	12043.9	10489.5	9087.9	8189.5	7429.7	6818.5	6211.4	5661.4	5282.5	5111.3
12.5°	12062.3	11186.3	9473.0	8264.9	7621.2	6900.0	6154.4	5396.5	4763.0	4306.6	4027.5
15°	11762.8	10827.7	9132.8	7939.0	7144.5	6231.8	5278.4	4412.6	3709.7	3296.2	3045.6
17.5°	12119.3	11031.4	9106.3	7541.7	6431.4	5296.7	4243.5	3220.8	2558.7	2245.0	2084.1
20°	13023.8	11679.3	9096.1	7054.8	5584.0	4188.5	2874.5	2118.7	1717.4	1542.2	1466.8
22.5°	14303.2	12506.4	9177.6	6574.0	4701.9	2992.6	1984.2	1556.4	1350.7	1257.0	1214.2
25°	15949.2	13667.6	9407.8	6138.1	3872.7	2232.8	1546.2	1303.8	1159.2	1085.8	1055.3
27.5°	17703.3	15004.0	9766.3	5759.2	3198.4	1780.5	1324.2	1116.4	1012.5	961.6	933.0
30°	19149.7	16552.2	10129.0	5337.5	2709.5	1552.3	1212.1	1018.6	898.4	865.8	839.3
32.5°	20414.8	17723.6	10385.6	4956.5	2389.6	1379.2	1096.0	910.6	829.1	766.0	737.5
35°	21724.7	18699.4	10377.5	4689.6	2169.6	1248.8	998.2	814.9	717.1	643.8	621.3
37.5°	23142.6	19801.6	10200.3	4461.5	2073.9	1144.9	943.2	763.9	666.2	592.8	564.3
40°	24802.9	20958.7	10018.9	4247.6	2047.4	1061.4	904.5	723.2	619.3	548.0	519.5
42.5°	26420.4	22001.7	9860.0	4088.7	1933.3	1059.3	869.9	692.6	582.6	513.4	480.8
45°	27714.1	22973.5	9829.5	3992.9	1813.1	1096.0	851.5	672.3	554.1	484.9	454.3
47.5°	28789.7	24028.8	10025.1	3925.7	1699.0	1000.3	896.4	658.0	527.6	460.4	425.8
50°	30069.1	25324.4	10485.5	3815.7	1578.8	900.4	1026.7	662.1	505.2	436.0	399.3
52.5°	31853.6	27117.2	11161.8	3630.3	1413.8	808.8	1010.5	666.2	480.8	409.5	372.8
55°	33854.2	29356.0	11889.1	3322.7	1183.6	688.6	865.8	637.6	433.9	381.0	346.3
57.5°	35956.6	31387.1	12321.0	2956.0	941.2	594.9	692.6	580.6	383.0	342.2	319.8
60°	36286.6	32159.2	12123.4	2505.8	747.7	517.4	513.4	590.8	342.2	301.5	285.2
62.5°	35465.6	31189.5	11167.9	2104.4	625.4	454.3	421.7	515.4	309.7	268.9	252.6
65°	33886.8	28567.6	9619.7	1896.6	580.6	389.1	350.4	362.6	270.9	234.3	220.0
67.5°	31690.7	25067.7	7898.2	1778.5	574.5	334.1	299.5	275.0	234.3	203.7	191.5
70°	27200.7	20883.3	6301.1	1713.3	558.2	281.1	252.6	224.1	195.6	173.2	163.0
72.5°	20019.6	14798.2	4901.5	1642.0	562.3	224.1	220.0	185.4	156.9	134.5	130.4
75°	11567.2	8454.4	3214.7	1330.3	535.8	173.2	183.3	130.4	110.0	93.7	93.7
77.5°	6164.6	5156.2	1224.4	554.1	195.6	110.0	103.9	77.4	69.3	57.0	55.0
80°	2687.1	2269.4	368.7	154.8	108.0	59.1	38.7	34.6	30.6	24.4	22.4
82.5°	951.4	821.0	120.2	75.4	46.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	215.9	154.8	0.0	18.3	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: P324103

CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4
2.5°	12237.5	12192.6	11927.8	11938.0	11984.8	12052.1	11893.2	11966.5	12164.1	12353.6	12424.9
5°	9462.8	9473.0	9312.0	9411.9	9501.5	9562.6	9305.9	9310.0	9466.9	9680.8	9792.8
7.5°	6667.8	6651.5	6659.6	6898.0	7067.0	6944.8	7040.6	6708.5	6728.9	6881.7	6767.6
10°	4956.5	4732.4	4606.1	4785.4	4970.8	4903.5	4738.5	4630.6	4705.9	4875.0	4862.8
12.5°	3895.1	3573.2	3383.8	3255.4	3408.2	3281.9	3277.9	3184.1	3082.3	3100.6	3371.6
15°	2929.5	2695.2	2471.1	2265.4	2261.3	2218.5	2000.5	1756.1	1735.7	1747.9	1888.5
17.5°	2014.8	1935.3	1843.7	1666.4	1619.6	1440.3	1228.4	1130.6	1081.8	1104.2	1151.0
20°	1415.9	1385.3	1395.5	1299.7	1232.5	1061.4	937.1	898.4	890.3	912.7	935.1
22.5°	1173.4	1118.4	1112.3	1069.5	1002.3	878.0	810.8	788.4	778.2	798.6	814.9
25°	1026.7	971.7	949.3	922.9	851.5	766.0	725.2	704.9	694.7	706.9	717.1
27.5°	904.5	853.6	833.2	814.9	745.6	684.5	651.9	633.6	625.4	629.5	639.7
30°	812.8	768.0	741.5	719.1	660.1	617.3	588.8	570.4	562.3	562.3	572.5
32.5°	717.1	692.6	668.2	639.7	584.7	556.2	527.6	507.3	499.1	501.2	509.3
35°	596.9	588.8	594.9	568.4	521.5	497.1	468.6	446.1	440.0	442.1	450.2
37.5°	529.7	493.0	515.4	501.2	474.7	442.1	405.4	385.0	374.8	381.0	385.0
40°	486.9	442.1	425.8	440.0	436.0	383.0	350.4	330.0	321.9	323.9	328.0
42.5°	450.2	397.3	360.6	358.5	383.0	334.1	299.5	281.1	270.9	270.9	275.0
45°	415.6	358.5	313.7	279.1	321.9	283.2	250.6	234.3	222.1	222.1	224.1
47.5°	389.1	326.0	273.0	228.2	242.4	232.2	205.8	189.5	177.2	177.2	179.3
50°	364.7	293.4	236.3	191.5	181.3	191.5	167.1	148.7	140.6	138.5	142.6
52.5°	338.2	260.8	201.7	163.0	142.6	144.6	130.4	118.2	108.0	108.0	112.0
55°	311.7	234.3	175.2	138.5	118.2	108.0	103.9	95.7	87.6	87.6	91.7
57.5°	285.2	205.8	148.7	114.1	93.7	85.6	85.6	79.5	73.3	73.3	77.4
60°	260.8	177.2	122.2	93.7	73.3	71.3	73.3	67.2	63.2	63.2	67.2
62.5°	232.2	150.8	99.8	77.4	59.1	57.0	63.2	59.1	55.0	55.0	59.1
65°	197.6	128.3	79.5	59.1	44.8	44.8	53.0	48.9	44.8	44.8	48.9
67.5°	167.1	108.0	61.1	42.8	32.6	34.6	44.8	40.7	38.7	38.7	42.8
70°	138.5	83.5	42.8	26.5	18.3	26.5	34.6	34.6	34.6	34.6	38.7
72.5°	103.9	57.0	24.4	10.2	8.1	18.3	28.5	32.6	30.6	30.6	36.7
75°	67.2	32.6	8.1	0.0	0.0	10.2	22.4	26.5	26.5	24.4	30.6
77.5°	38.7	10.2	0.0	0.0	0.0	0.0	14.3	12.2	10.2	8.1	14.3
80°	10.2	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: P324103

CATALOG NUMBER: GAN-SA9D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4	14427.4
2.5°	12712.1	12952.5	13290.7	13649.2	14201.3	14639.3	15069.2	15437.9	15580.5	15639.6
5°	10061.7	10414.2	10909.2	11544.8	12541.0	13437.4	14346.0	15260.7	15657.9	15757.7
7.5°	7219.8	7670.1	8299.5	9096.1	10263.4	11424.6	12693.8	14036.3	14651.5	14806.4
10°	5343.6	5893.6	6614.8	7454.1	8568.5	9762.3	11145.5	12679.5	13382.4	13588.1
12.5°	3791.2	4534.8	5500.4	6521.1	7486.7	8552.2	9951.7	11642.6	12380.1	12602.1
15°	2226.7	2945.8	4088.7	5455.6	6692.2	7771.9	9193.9	11110.9	11923.7	12147.8
17.5°	1277.3	1635.9	2499.6	4023.5	5702.1	7197.4	8955.5	11243.3	12200.8	12408.6
20°	975.8	1089.9	1440.3	2591.3	4545.0	6633.1	8955.5	11993.0	13172.5	13478.1
22.5°	853.6	937.1	1079.7	1546.2	3345.1	6028.1	9059.4	13076.8	14618.9	14957.1
25°	757.8	833.2	955.4	1163.2	2281.7	5308.9	9305.9	14407.1	16322.0	16760.0
27.5°	678.4	749.7	859.7	1018.6	1560.5	4441.1	9638.0	15967.6	18200.3	18550.7
30°	607.1	674.3	774.1	886.2	1204.0	3457.1	9921.2	17438.4	19675.3	20052.1
32.5°	539.9	601.0	690.6	774.1	986.0	2556.7	9951.7	18603.7	20899.6	21274.5
35°	476.7	531.7	613.2	678.4	816.9	2018.9	9477.0	19614.2	22124.0	22619.0
37.5°	415.6	468.6	539.9	588.8	719.1	1646.1	8751.8	20740.7	23694.7	24153.0
40°	358.5	405.4	478.7	511.3	680.4	1265.1	7963.4	21922.3	25234.8	25654.4
42.5°	305.6	350.4	421.7	484.9	596.9	945.3	7111.9	23030.5	26620.1	27060.1
45°	254.6	301.5	372.8	513.4	495.0	706.9	6201.2	23766.0	27714.1	28192.8
47.5°	205.8	258.7	356.5	488.9	395.2	519.5	5480.1	24462.7	28543.2	29015.8
50°	165.0	218.0	401.3	436.0	323.9	397.3	5178.6	25086.1	29087.1	29541.4
52.5°	134.5	183.3	378.9	334.1	270.9	328.0	5341.5	26096.5	29590.3	29875.5
55°	112.0	144.6	228.2	232.2	230.2	279.1	5543.2	27547.0	30892.1	31026.5
57.5°	97.8	116.1	158.9	179.3	193.5	248.5	5547.3	29629.0	32906.9	32990.4
60°	83.5	101.9	132.4	144.6	167.1	222.1	5345.6	30356.3	33699.3	33976.4
62.5°	73.3	89.6	110.0	120.2	140.6	199.6	4873.0	29303.1	32611.5	33082.1
65°	65.2	81.5	91.7	101.9	124.3	179.3	4094.8	27196.6	30806.5	31297.5
67.5°	57.0	71.3	81.5	91.7	112.0	158.9	3015.1	24749.9	28734.7	29142.1
70°	50.9	63.2	73.3	81.5	97.8	134.5	1829.4	21001.5	25870.4	26039.5
72.5°	48.9	57.0	67.2	73.3	85.6	118.2	926.9	15433.8	20681.6	20956.7
75°	42.8	50.9	61.1	65.2	75.4	101.9	376.9	10137.1	14987.7	15429.7
77.5°	34.6	46.9	55.0	59.1	65.2	83.5	191.5	6478.3	10518.1	10803.3
80°	12.2	34.6	46.9	48.9	55.0	61.1	126.3	3546.8	6101.4	6223.6
82.5°	0.0	22.4	36.7	34.6	38.7	46.9	81.5	1686.8	4027.5	4072.4
85°	0.0	10.2	28.5	22.4	16.3	32.6	28.5	368.7	2112.6	2200.2
87.5°	0.0	0.0	2.0	10.2	8.1	12.2	4.1	2.0	191.5	242.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)