

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: P324073

Luminaire Tested: **GAN-SA9A-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324073
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-SA9A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 25829 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

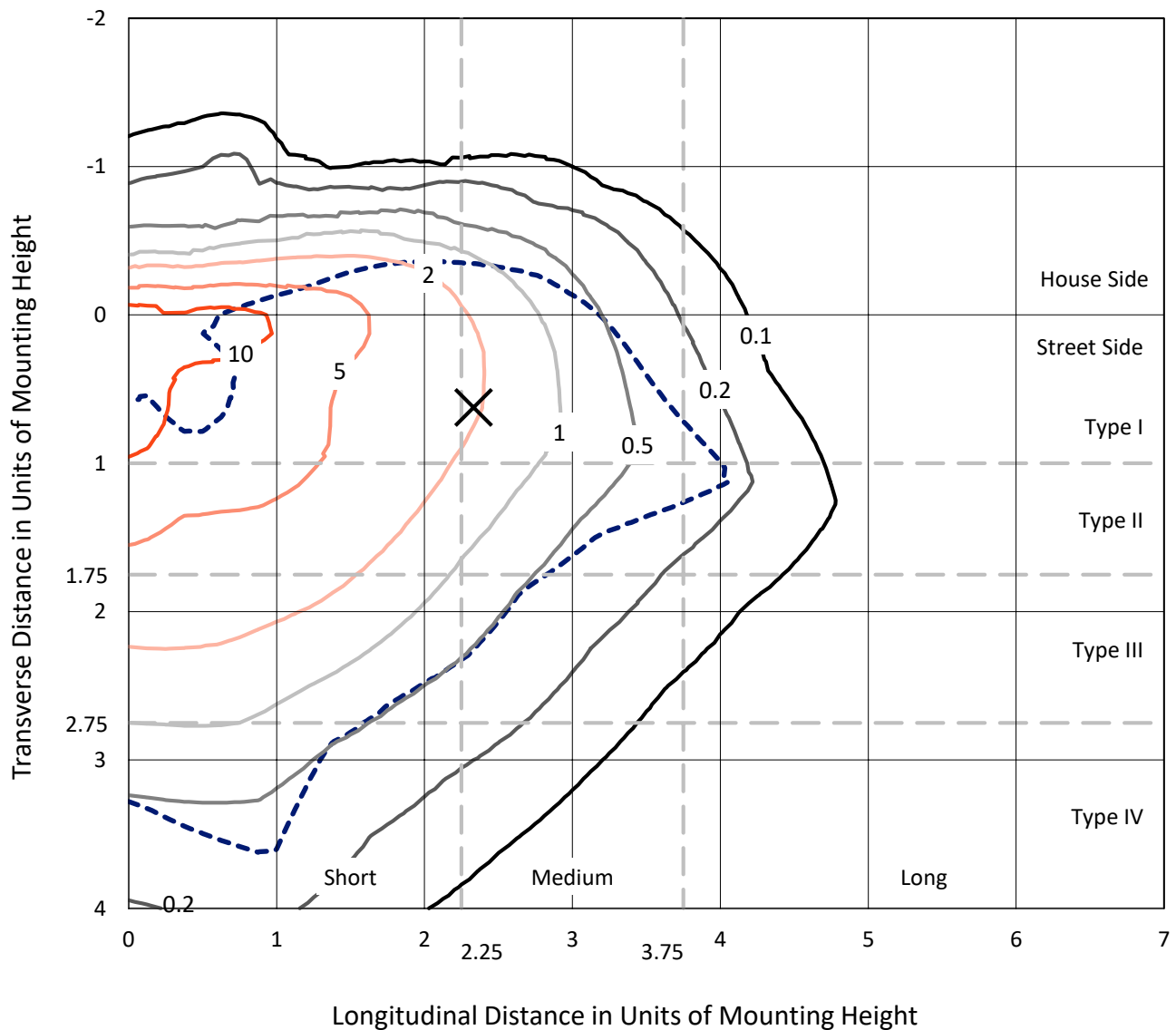
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

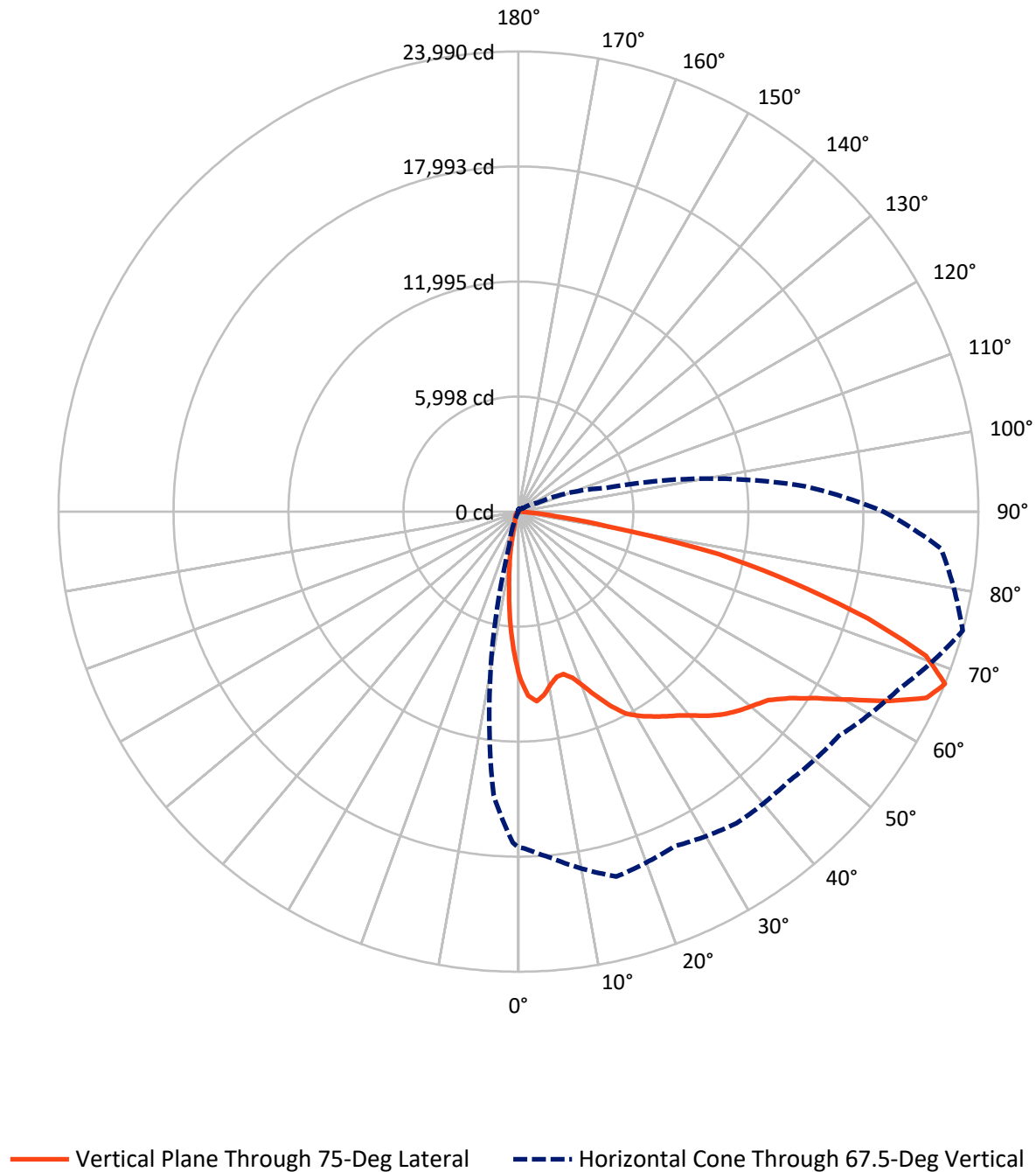
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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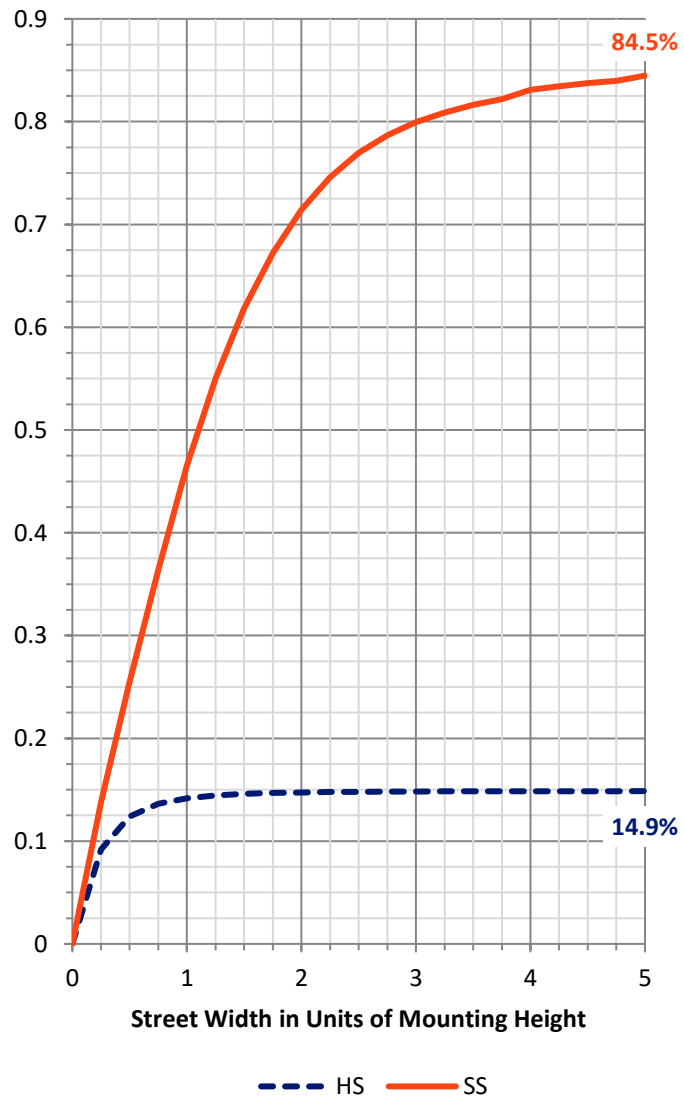
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3875.9	0.0	3875.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21953.1	0.0	21953.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	25829.0	0.0	25829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.3	2.5
10°-20°	1294.2	5.0
20°-30°	1831.0	7.1
30°-40°	2692.0	10.4
40°-50°	3869.3	15.0
50°-60°	5447.0	21.1
60°-70°	6361.6	24.6
70°-80°	3245.5	12.6
80°-90°	431.1	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°	25829.0	100.0
0°-180°	25829.0	100.0

Coefficient of Utilization



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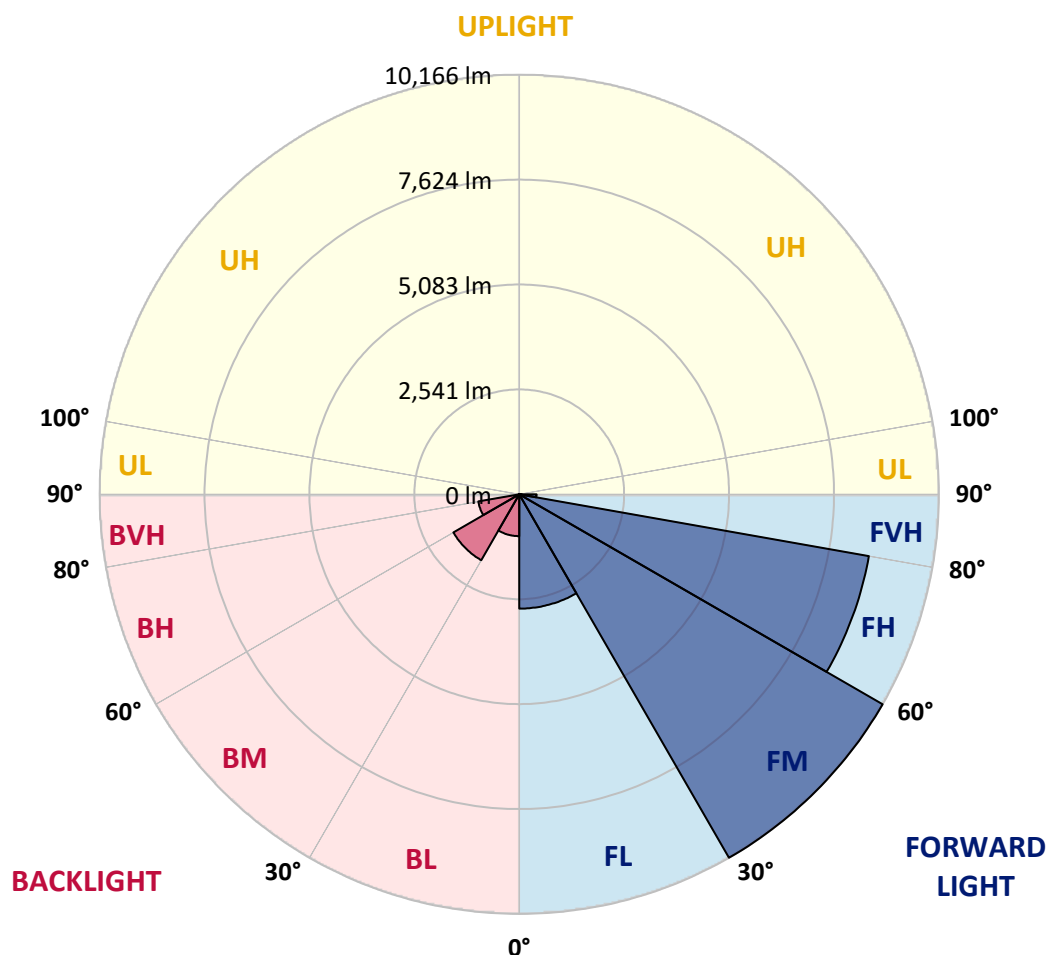
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2768.9	10.7			
FM	(30°-60°)	10165.8	39.4			
FH	(60°-80°)	8600.3	33.3			G4/12000
FVH	(80°-90°)	418.1	1.6			G3/500
BL	(0°-30°)	1013.6	3.9	B3/2500		
BM	(30°-60°)	1842.5	7.1	B2/2500		
BH	(60°-80°)	1006.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	13.1	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2
2.5°	9393.2	9407.9	9483.7	9659.9	9852.0	9866.7	9996.4	9863.0	9817.8	9602.4	9379.7
5°	9464.2	9520.4	9781.1	10298.6	10747.7	10892.1	10994.8	10733.0	10457.7	9931.6	9370.0
7.5°	8892.8	8987.0	9396.9	10368.4	11171.0	11525.8	11593.1	11183.3	10509.1	9642.8	8798.6
10°	8161.1	8268.8	8763.1	9957.3	11059.7	11667.8	11760.8	11223.6	10254.6	9175.4	8180.7
12.5°	7568.9	7694.9	8200.2	9494.8	10676.7	11349.7	11533.2	11087.8	10034.3	8843.8	7758.5
15°	7296.0	7440.4	7971.4	9196.2	10252.1	10781.9	10933.7	10741.6	9912.0	8791.2	7660.7
17.5°	7452.6	7609.3	8157.4	9221.9	9853.3	10079.6	10202.0	10280.3	9912.0	9108.1	7947.0
20°	8095.0	8263.9	8843.8	9482.5	9522.9	9438.5	9569.4	9844.7	10027.0	9710.1	8634.6
22.5°	8983.3	9181.5	9836.1	9929.1	9361.4	9042.0	9059.2	9491.1	10236.2	10473.6	9589.0
25°	10066.2	10308.4	10974.0	10594.7	9428.7	8805.9	8799.8	9199.9	10440.6	11238.3	10652.2
27.5°	11141.7	11408.4	11993.2	11407.2	9706.4	8763.1	8750.8	9111.8	10640.0	11918.6	11813.4
30°	12043.4	12302.8	12806.9	11995.7	10006.2	8863.4	8804.7	9206.0	10758.7	12360.3	12660.1
32.5°	12777.5	12985.5	13393.0	12400.7	10326.8	9057.9	8930.7	9458.0	10960.6	12733.5	13438.3
35°	13585.1	13804.1	13966.8	12786.1	10686.5	9338.1	9155.8	9858.1	11271.4	13112.8	14291.1
37.5°	14506.4	14724.2	14704.6	13138.5	11142.9	9801.9	9685.6	10491.9	11754.7	13488.4	15243.0
40°	15408.2	15630.9	15471.8	13523.9	11678.8	10566.6	10480.9	11443.9	12401.9	13969.3	16358.9
42.5°	16252.4	16493.5	16153.3	13888.5	12317.5	11530.7	11677.6	12669.9	13211.9	14561.5	17320.6
45°	16932.7	17178.7	16724.7	14243.4	12990.4	12700.5	13142.2	14028.0	14185.8	15061.9	17970.3
47.5°	17427.0	17659.5	17121.1	14598.2	13851.8	14130.8	14900.4	15452.2	15065.6	15496.3	18431.6
50°	17742.7	17923.8	17237.4	15042.3	14982.4	15799.7	16732.1	17001.2	15893.9	15887.8	18992.0
52.5°	17943.4	18025.4	17323.0	15506.1	16161.9	17616.7	18525.8	18610.2	16746.7	16318.5	19746.9
55°	18634.7	18700.8	17929.9	16067.7	17137.1	19208.5	20148.2	20069.9	17712.1	17161.5	20637.6
57.5°	19814.2	19883.9	19184.1	16875.2	17926.2	20192.3	21324.0	21464.8	18843.9	18345.9	21592.0
60°	20406.4	20536.1	20286.5	17898.1	18691.0	20821.2	22125.5	22574.5	20258.3	19907.2	22517.0
62.5°	19869.2	20057.7	20419.8	19032.3	19450.8	21167.4	22375.1	22972.2	21707.0	21726.6	23087.2
65°	18797.4	18947.9	19562.1	19653.9	19891.3	21124.6	21758.4	22416.7	22594.1	23398.0	23056.6
67.5°	17502.9	17559.2	18080.4	19702.8	19252.6	19837.4	19906.0	20392.9	21893.0	23990.2	22130.4
70°	15639.4	15670.0	16125.2	18064.5	16544.9	16673.3	16571.8	16670.9	18821.9	22547.6	19792.2
72.5°	12586.7	12663.8	13311.0	15002.0	12053.2	11682.5	12480.2	12436.2	14495.4	19049.5	14699.7
75°	9267.2	9400.5	10378.2	12083.8	8459.6	7652.1	8234.5	8389.9	10304.7	14735.2	9192.5
77.5°	6488.5	6587.6	7534.6	8883.0	6122.6	5471.7	5261.3	5446.0	6801.7	10659.6	4631.1
80°	3737.9	3774.7	4379.1	5129.1	4125.8	4720.5	4276.3	4403.6	4075.6	4742.5	1991.9
82.5°	2445.9	2452.0	2688.1	3052.8	2569.5	2985.5	2209.7	2825.2	2507.1	1905.1	648.5
85°	1321.4	1328.8	1558.8	2166.9	1454.8	822.2	483.3	992.3	1550.2	436.8	177.4
87.5°	145.6	133.4	469.8	788.0	403.8	74.6	25.7	111.3	248.4	28.1	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2
2.5°	9266.0	9164.4	8911.1	8643.2	8427.8	8225.9	8022.8	7774.4	7582.3	7543.2	7479.6
5°	9067.7	8745.9	8214.9	7681.5	7252.0	6710.0	6366.1	6098.2	5836.3	5820.4	5767.8
7.5°	8375.2	7951.9	7204.3	6466.5	5862.0	5345.7	4824.5	4475.7	4201.7	4105.0	4047.5
10°	7709.6	7233.6	6300.1	5458.3	4918.7	4462.3	4095.2	3730.6	3400.2	3172.7	3069.9
12.5°	7244.6	6718.5	5689.5	4963.9	4577.3	4144.2	3696.3	3241.2	2860.7	2586.6	2419.0
15°	7064.8	6503.2	5485.2	4768.2	4291.0	3742.8	3170.2	2650.2	2228.1	1979.7	1829.2
17.5°	7278.9	6625.5	5469.3	4529.6	3862.8	3181.2	2548.7	1934.4	1536.8	1348.4	1251.7
20°	7822.2	7014.6	5463.2	4237.2	3353.8	2515.6	1726.4	1272.5	1031.5	926.2	881.0
22.5°	8590.6	7511.4	5512.1	3948.4	2824.0	1797.4	1191.7	934.8	811.2	754.9	729.2
25°	9579.2	8208.8	5650.4	3686.6	2326.0	1341.0	928.7	783.1	696.2	652.2	633.8
27.5°	10632.7	9011.5	5865.7	3459.0	1921.0	1069.4	795.3	670.5	608.1	577.5	560.4
30°	11501.4	9941.4	6083.5	3205.7	1627.3	932.3	728.0	611.8	539.6	520.0	504.1
32.5°	12261.2	10644.9	6237.7	2976.9	1435.2	828.3	658.3	546.9	498.0	460.1	442.9
35°	13047.9	11231.0	6232.8	2816.6	1303.1	750.0	599.5	489.4	430.7	386.6	373.2
37.5°	13899.5	11892.9	6126.3	2679.6	1245.6	687.6	566.5	458.8	400.1	356.1	338.9
40°	14896.7	12587.9	6017.4	2551.1	1229.7	637.5	543.3	434.4	372.0	329.1	312.0
42.5°	15868.2	13214.4	5922.0	2455.7	1161.1	636.2	522.5	416.0	349.9	308.3	288.8
45°	16645.2	13798.0	5903.6	2398.2	1089.0	658.3	511.4	403.8	332.8	291.2	272.9
47.5°	17291.2	14431.8	6021.1	2357.8	1020.4	600.8	538.4	395.2	316.9	276.5	255.7
50°	18059.6	15210.0	6297.6	2291.7	948.3	540.8	616.7	397.7	303.4	261.8	239.8
52.5°	19131.4	16286.7	6703.8	2180.4	849.1	485.7	606.9	400.1	288.8	245.9	223.9
55°	20333.0	17631.4	7140.6	1995.6	710.9	413.6	520.0	383.0	260.6	228.8	208.0
57.5°	21595.7	18851.2	7400.0	1775.4	565.3	357.3	416.0	348.7	230.0	205.6	192.1
60°	21793.9	19315.0	7281.4	1505.0	449.0	310.8	308.3	354.8	205.6	181.1	171.3
62.5°	21300.8	18732.6	6707.5	1263.9	375.6	272.9	253.3	309.6	186.0	161.5	151.7
65°	20352.5	17157.9	5777.6	1139.1	348.7	233.7	210.5	217.8	162.7	140.7	132.1
67.5°	19033.6	15055.8	4743.7	1068.2	345.0	200.7	179.9	165.2	140.7	122.4	115.0
70°	16336.9	12542.6	3784.4	1029.0	335.3	168.9	151.7	134.6	117.5	104.0	97.9
72.5°	12023.8	8887.9	2943.9	986.2	337.7	134.6	132.1	111.3	94.2	80.8	78.3
75°	6947.3	5077.7	1930.8	799.0	321.8	104.0	110.1	78.3	66.1	56.3	56.3
77.5°	3702.5	3096.8	735.4	332.8	117.5	66.1	62.4	46.5	41.6	34.3	33.0
80°	1613.9	1363.0	221.5	93.0	64.8	35.5	23.2	20.8	18.4	14.7	13.5
82.5°	571.4	493.1	72.2	45.3	28.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	129.7	93.0	0.0	11.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2
2.5°	7349.9	7323.0	7163.9	7170.0	7198.2	7238.5	7143.1	7187.1	7305.8	7419.6	7462.4
5°	5683.4	5689.5	5592.9	5652.8	5706.6	5743.3	5589.2	5591.6	5685.8	5814.3	5881.6
7.5°	4004.7	3994.9	3999.8	4142.9	4244.5	4171.1	4228.6	4029.2	4041.4	4133.2	4064.6
10°	2976.9	2842.3	2766.4	2874.1	2985.5	2945.1	2846.0	2781.1	2826.4	2928.0	2920.6
12.5°	2339.4	2146.1	2032.3	1955.2	2047.0	1971.1	1968.7	1912.4	1851.2	1862.2	2025.0
15°	1759.5	1618.8	1484.2	1360.6	1358.1	1332.4	1201.5	1054.7	1042.5	1049.8	1134.2
17.5°	1210.1	1162.4	1107.3	1000.9	972.7	865.1	737.8	679.1	649.7	663.2	691.3
20°	850.4	832.0	838.1	780.6	740.2	637.5	562.8	539.6	534.7	548.2	561.6
22.5°	704.8	671.7	668.1	642.4	602.0	527.4	487.0	473.5	467.4	479.6	489.4
25°	616.7	583.6	570.2	554.3	511.4	460.1	435.6	423.3	417.2	424.6	430.7
27.5°	543.3	512.7	500.4	489.4	447.8	411.1	391.5	380.5	375.6	378.1	384.2
30°	488.2	461.3	445.4	431.9	396.4	370.7	353.6	342.6	337.7	337.7	343.8
32.5°	430.7	416.0	401.3	384.2	351.2	334.0	316.9	304.7	299.8	301.0	305.9
35°	358.5	353.6	357.3	341.4	313.2	298.5	281.4	268.0	264.3	265.5	270.4
37.5°	318.1	296.1	309.6	301.0	285.1	265.5	243.5	231.3	225.1	228.8	231.3
40°	292.4	265.5	255.7	264.3	261.8	230.0	210.5	198.2	193.3	194.5	197.0
42.5°	270.4	238.6	216.6	215.3	230.0	200.7	179.9	168.9	162.7	162.7	165.2
45°	249.6	215.3	188.4	167.6	193.3	170.1	150.5	140.7	133.4	133.4	134.6
47.5°	233.7	195.8	164.0	137.0	145.6	139.5	123.6	113.8	106.4	106.4	107.7
50°	219.0	176.2	141.9	115.0	108.9	115.0	100.3	89.3	84.4	83.2	85.6
52.5°	203.1	156.6	121.1	97.9	85.6	86.9	78.3	71.0	64.8	64.8	67.3
55°	187.2	140.7	105.2	83.2	71.0	64.8	62.4	57.5	52.6	52.6	55.1
57.5°	171.3	123.6	89.3	68.5	56.3	51.4	51.4	47.7	44.0	44.0	46.5
60°	156.6	106.4	73.4	56.3	44.0	42.8	44.0	40.4	37.9	37.9	40.4
62.5°	139.5	90.5	60.0	46.5	35.5	34.3	37.9	35.5	33.0	33.0	35.5
65°	118.7	77.1	47.7	35.5	26.9	26.9	31.8	29.4	26.9	26.9	29.4
67.5°	100.3	64.8	36.7	25.7	19.6	20.8	26.9	24.5	23.2	23.2	25.7
70°	83.2	50.2	25.7	15.9	11.0	15.9	20.8	20.8	20.8	20.8	23.2
72.5°	62.4	34.3	14.7	6.1	4.9	11.0	17.1	19.6	18.4	18.4	22.0
75°	40.4	19.6	4.9	0.0	0.0	6.1	13.5	15.9	15.9	14.7	18.4
77.5°	23.2	6.1	0.0	0.0	0.0	0.0	8.6	7.3	6.1	4.9	8.6
80°	6.1	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: P324073

CATALOG NUMBER: GAN-SA9A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2	8665.2
2.5°	7635.0	7779.3	7982.4	8197.8	8529.4	8792.4	9050.6	9272.1	9357.7	9393.2
5°	6043.1	6254.8	6552.1	6933.9	7532.2	8070.5	8616.2	9165.6	9404.2	9464.2
7.5°	4336.3	4606.7	4984.7	5463.2	6164.2	6861.7	7623.9	8430.3	8799.8	8892.8
10°	3209.4	3539.7	3972.9	4477.0	5146.3	5863.3	6694.0	7615.4	8037.5	8161.1
12.5°	2277.0	2723.6	3303.6	3916.6	4496.5	5136.5	5977.0	6992.6	7435.5	7568.9
15°	1337.3	1769.3	2455.7	3276.7	4019.4	4667.8	5521.9	6673.2	7161.4	7296.0
17.5°	767.2	982.5	1501.3	2416.5	3424.7	4322.8	5378.7	6752.8	7327.8	7452.6
20°	586.1	654.6	865.1	1556.4	2729.7	3983.9	5378.7	7203.0	7911.5	8095.0
22.5°	512.7	562.8	648.5	928.7	2009.1	3620.5	5441.1	7854.0	8780.2	8983.3
25°	455.2	500.4	573.8	698.6	1370.4	3188.6	5589.2	8653.0	9803.1	10066.2
27.5°	407.4	450.3	516.3	611.8	937.2	2667.3	5788.6	9590.2	10931.2	11141.7
30°	364.6	405.0	464.9	532.2	723.1	2076.4	5958.7	10473.6	11817.1	12043.4
32.5°	324.2	360.9	414.8	464.9	592.2	1535.6	5977.0	11173.5	12552.4	12777.5
35°	286.3	319.3	368.3	407.4	490.6	1212.5	5692.0	11780.3	13287.8	13585.1
37.5°	249.6	281.4	324.2	353.6	431.9	988.6	5256.4	12457.0	14231.1	14506.4
40°	215.3	243.5	287.5	307.1	408.7	759.8	4782.9	13166.6	15156.1	15408.2
42.5°	183.5	210.5	253.3	291.2	358.5	567.7	4271.4	13832.2	15988.1	16252.4
45°	152.9	181.1	223.9	308.3	297.3	424.6	3724.5	14273.9	16645.2	16932.7
47.5°	123.6	155.4	214.1	293.7	237.4	312.0	3291.4	14692.4	17143.2	17427.0
50°	99.1	130.9	241.0	261.8	194.5	238.6	3110.3	15066.8	17469.9	17742.7
52.5°	80.8	110.1	227.6	200.7	162.7	197.0	3208.2	15673.7	17772.1	17943.4
55°	67.3	86.9	137.0	139.5	138.3	167.6	3329.3	16544.9	18553.9	18634.7
57.5°	58.7	69.7	95.4	107.7	116.2	149.3	3331.7	17795.3	19764.0	19814.2
60°	50.2	61.2	79.5	86.9	100.3	133.4	3210.6	18232.1	20240.0	20406.4
62.5°	44.0	53.8	66.1	72.2	84.4	119.9	2926.7	17599.6	19586.6	19869.2
65°	39.2	48.9	55.1	61.2	74.6	107.7	2459.3	16334.4	18502.5	18797.4
67.5°	34.3	42.8	48.9	55.1	67.3	95.4	1810.9	14864.9	17258.2	17502.9
70°	30.6	37.9	44.0	48.9	58.7	80.8	1098.7	12613.6	15537.9	15639.4
72.5°	29.4	34.3	40.4	44.0	51.4	71.0	556.7	9269.6	12421.5	12586.7
75°	25.7	30.6	36.7	39.2	45.3	61.2	226.4	6088.4	9001.7	9267.2
77.5°	20.8	28.1	33.0	35.5	39.2	50.2	115.0	3890.9	6317.2	6488.5
80°	7.3	20.8	28.1	29.4	33.0	36.7	75.9	2130.2	3664.5	3737.9
82.5°	0.0	13.5	22.0	20.8	23.2	28.1	48.9	1013.1	2419.0	2445.9
85°	0.0	6.1	17.1	13.5	9.8	19.6	17.1	221.5	1268.8	1321.4
87.5°	0.0	0.0	1.2	6.1	4.9	7.3	2.4	1.2	115.0	145.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)