

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: P324071

Luminaire Tested: **GAN-SA7A-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324071
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-SA7A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 20436 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 226
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

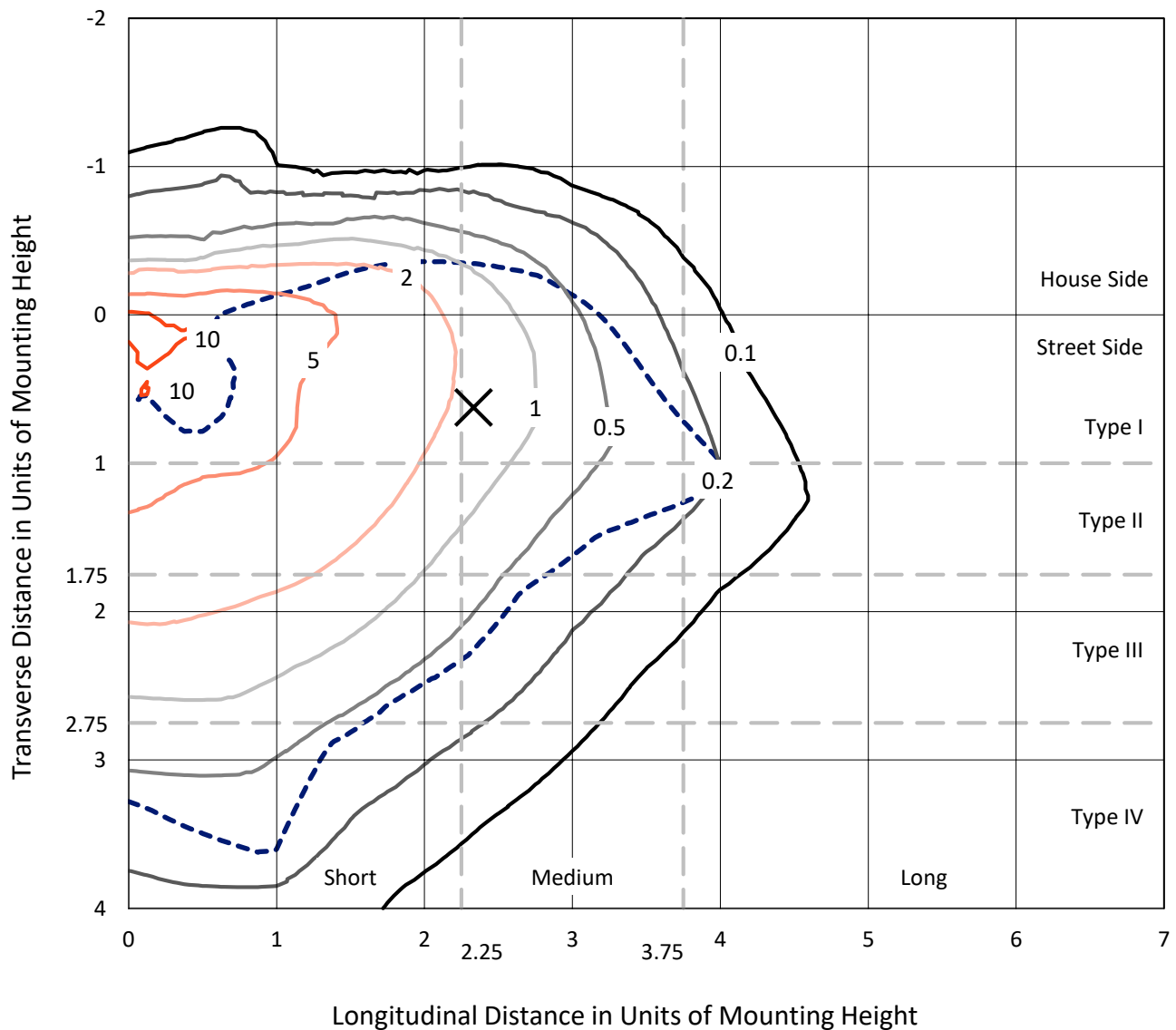


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Iso-Footcandle Lines of Horizontal Illumination

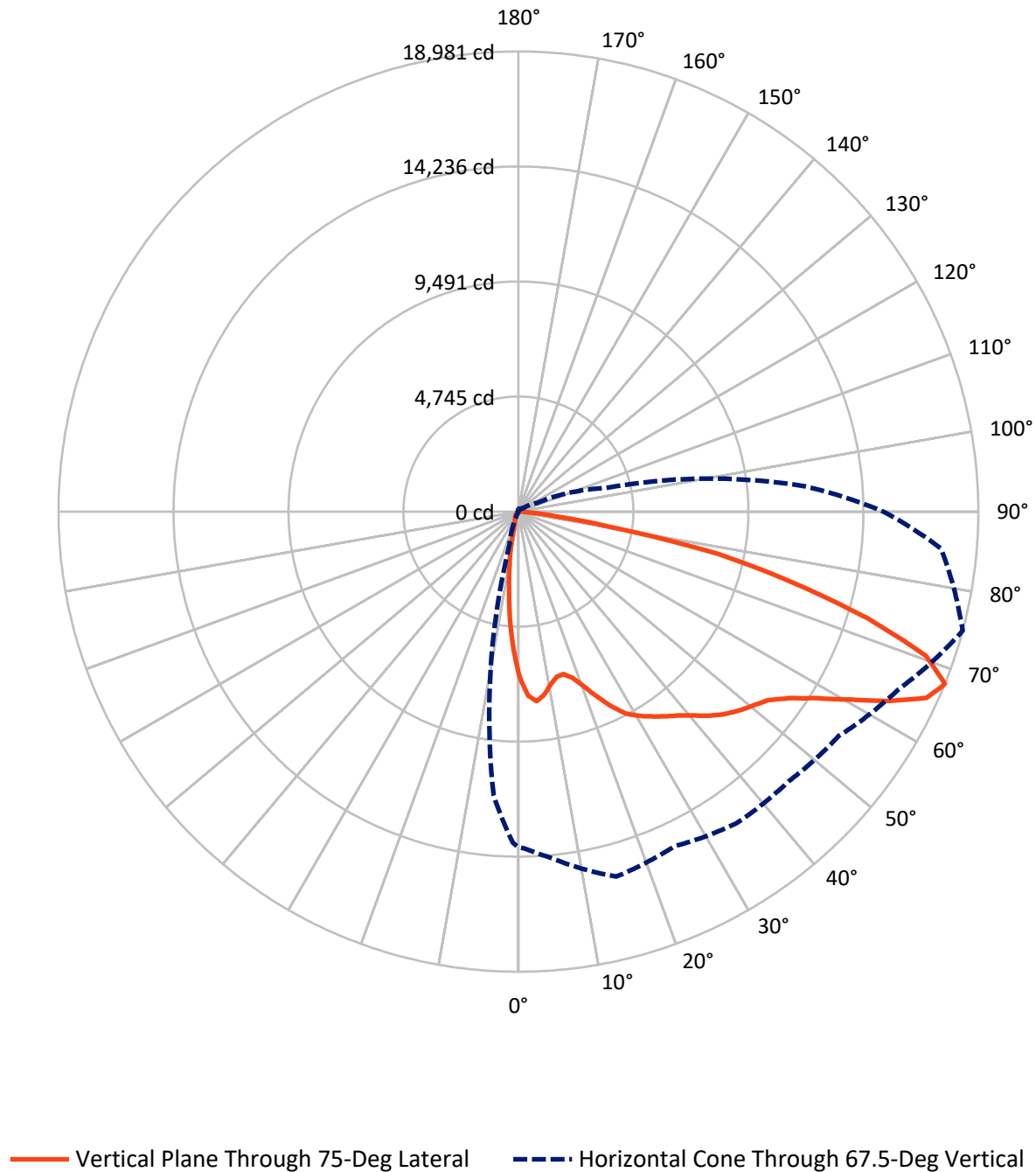
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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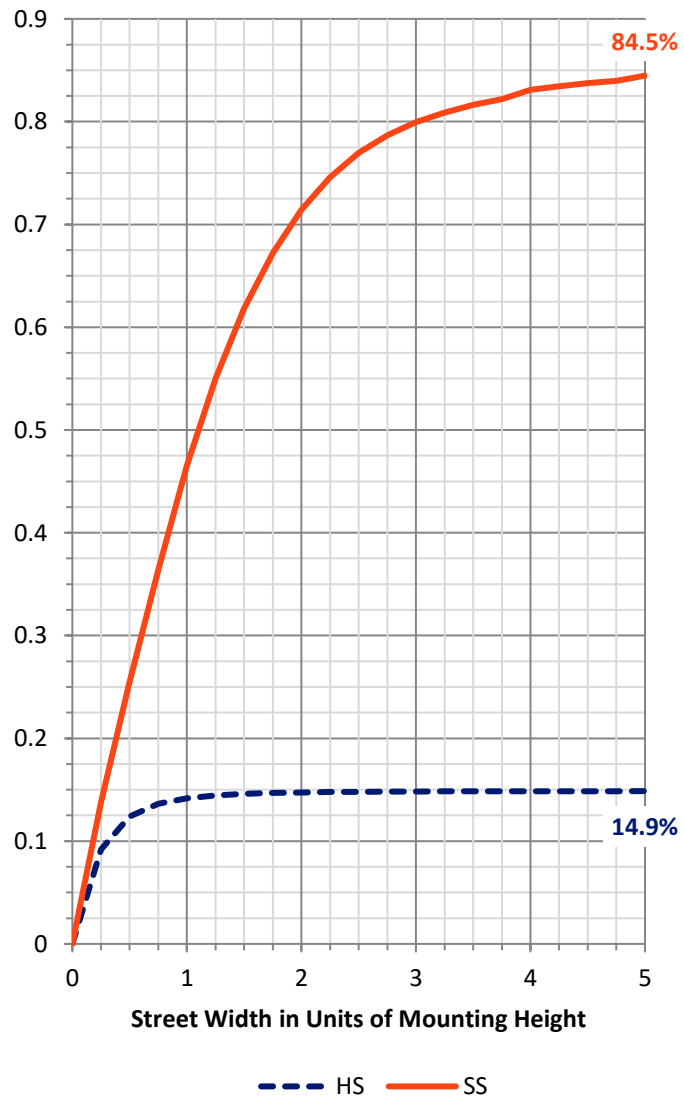
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3066.6	0.0	3066.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17369.4	0.0	17369.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	20436.0	0.0	20436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.1	2.5
10°-20°	1024.0	5.0
20°-30°	1448.7	7.1
30°-40°	2129.9	10.4
40°-50°	3061.4	15.0
50°-60°	4309.7	21.1
60°-70°	5033.3	24.6
70°-80°	2567.8	12.6
80°-90°	341.1	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°	20436.0	100.0
0°-180°	20436.0	100.0

Coefficient of Utilization



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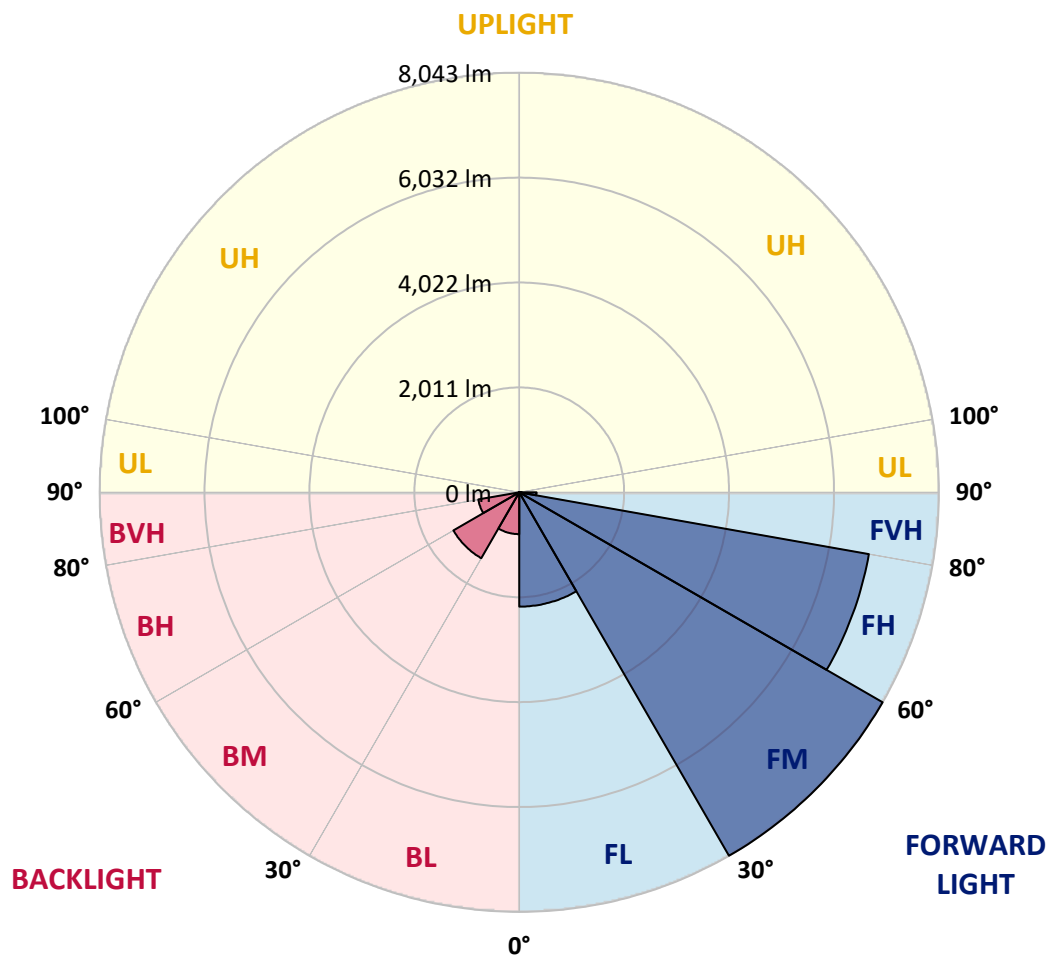
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2190.7	10.7			
FM	(30°-60°)	8043.3	39.4			
FH	(60°-80°)	6804.6	33.3			G3/7500
FVH	(80°-90°)	330.8	1.6			G3/500
BL	(0°-30°)	802.0	3.9	B2/1000		
BM	(30°-60°)	1457.8	7.1	B2/2500		
BH	(60°-80°)	796.5	3.9	B2/1000		G2/1000
BVH	(80°-90°)	10.3	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9
2.5°	7431.9	7443.6	7503.6	7643.0	7795.0	7806.6	7909.2	7803.7	7767.9	7597.5	7421.3
5°	7488.1	7532.6	7738.8	8148.3	8503.6	8617.8	8699.1	8492.0	8274.2	7857.9	7413.5
7.5°	7036.0	7110.5	7434.8	8203.5	8838.6	9119.3	9172.5	8848.2	8314.8	7629.4	6961.4
10°	6457.1	6542.3	6933.4	7878.2	8750.5	9231.6	9305.2	8880.2	8113.5	7259.6	6472.6
12.5°	5988.5	6088.2	6488.1	7512.3	8447.4	8979.9	9125.1	8772.7	7939.2	6997.3	6138.6
15°	5772.6	5886.9	6307.0	7276.1	8111.5	8530.7	8650.7	8498.8	7842.4	6955.6	6061.1
17.5°	5896.6	6020.5	6454.2	7296.4	7795.9	7975.0	8071.8	8133.8	7842.4	7206.4	6287.7
20°	6404.8	6538.4	6997.3	7502.6	7534.6	7467.8	7571.3	7789.2	7933.4	7682.7	6831.7
22.5°	7107.6	7264.5	7782.4	7856.0	7406.8	7154.1	7167.6	7509.4	8098.9	8286.7	7586.8
25°	7964.4	8156.1	8682.7	8382.6	7460.0	6967.3	6962.4	7279.0	8260.6	8891.8	8428.1
27.5°	8815.3	9026.4	9489.1	9025.4	7679.8	6933.4	6923.7	7209.3	8418.4	9430.0	9346.8
30°	9528.8	9734.0	10132.9	9491.0	7916.9	7012.8	6966.3	7283.8	8512.3	9779.5	10016.7
32.5°	10109.6	10274.2	10596.6	9811.5	8170.6	7166.7	7066.0	7483.2	8672.0	10074.8	10632.4
35°	10748.6	10921.9	11050.6	10116.4	8455.2	7388.4	7244.1	7799.8	8917.9	10374.9	11307.2
37.5°	11477.5	11649.9	11634.4	10395.2	8816.3	7755.3	7663.3	8301.3	9300.3	10672.1	12060.3
40°	12191.0	12367.2	12241.3	10700.2	9240.3	8360.3	8292.6	9054.4	9812.4	11052.5	12943.2
42.5°	12859.0	13049.7	12780.6	10988.7	9745.6	9123.2	9239.3	10024.4	10453.3	11521.1	13704.1
45°	13397.2	13591.8	13232.7	11269.4	10278.1	10048.6	10398.1	11099.0	11223.9	11917.0	14218.2
47.5°	13788.3	13972.3	13546.3	11550.1	10959.6	11180.3	11789.3	12225.9	11919.9	12260.7	14583.1
50°	14038.1	14181.4	13638.3	11901.6	11854.1	12500.8	13238.5	13451.4	12575.3	12570.5	15026.5
52.5°	14196.9	14261.7	13706.0	12268.5	12787.3	13938.4	14657.7	14724.5	13250.1	12911.3	15623.8
55°	14743.8	14796.1	14186.2	12712.8	13558.9	15197.9	15941.3	15879.4	14013.9	13578.3	16328.6
57.5°	15677.1	15732.2	15178.5	13351.7	14183.3	15976.2	16871.7	16983.0	14909.4	14515.4	17083.7
60°	16145.6	16248.2	16050.7	14161.0	14788.4	16473.8	17505.8	17861.0	16028.5	15750.6	17815.5
62.5°	15720.6	15869.7	16156.3	15058.5	15389.5	16747.7	17703.2	18175.7	17174.7	17190.2	18266.7
65°	14872.6	14991.7	15477.6	15550.2	15738.0	16713.9	17215.3	17736.2	17876.5	18512.6	18242.5
67.5°	13848.4	13892.9	14305.3	15589.0	15232.7	15695.4	15749.7	16135.0	17321.8	18981.1	17509.6
70°	12374.0	12398.2	12758.3	14292.7	13090.4	13192.0	13111.6	13190.1	14891.9	17839.7	15659.6
72.5°	9958.6	10019.6	10531.7	11869.6	9536.5	9243.2	9874.4	9839.5	11468.8	15072.0	11630.5
75°	7332.2	7437.7	8211.2	9560.7	6693.3	6054.4	6515.2	6638.1	8153.2	11658.6	7273.2
77.5°	5133.7	5212.1	5961.4	7028.2	4844.3	4329.2	4162.7	4308.9	5381.5	8433.9	3664.2
80°	2957.5	2986.5	3464.8	4058.2	3264.4	3734.8	3383.4	3484.1	3224.7	3752.3	1576.0
82.5°	1935.2	1940.0	2126.9	2415.4	2033.0	2362.1	1748.3	2235.3	1983.6	1507.3	513.1
85°	1045.5	1051.3	1233.3	1714.5	1151.0	650.5	382.4	785.1	1226.6	345.6	140.4
87.5°	115.2	105.5	371.7	623.4	319.5	59.1	20.3	88.1	196.5	22.3	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°	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9
2.5°	7331.3	7250.9	7050.5	6838.5	6668.1	6508.4	6347.7	6151.2	5999.2	5968.2	5917.9
5°	7174.4	6919.8	6499.7	6077.6	5737.8	5308.9	5036.9	4824.9	4617.7	4605.1	4563.5
7.5°	6626.5	6291.5	5700.0	5116.3	4638.1	4229.5	3817.1	3541.2	3324.4	3247.9	3202.4
10°	6099.9	5723.3	4984.6	4318.6	3891.7	3530.6	3240.2	2951.7	2690.3	2510.2	2428.9
12.5°	5732.0	5315.7	4501.6	3927.5	3621.6	3278.9	2924.6	2564.4	2263.4	2046.5	1913.9
15°	5589.7	5145.3	4339.9	3772.6	3395.0	2961.4	2508.3	2096.9	1762.9	1566.4	1447.3
17.5°	5759.1	5242.1	4327.3	3583.8	3056.2	2517.0	2016.5	1530.5	1215.9	1066.8	990.3
20°	6188.9	5550.0	4322.5	3352.5	2653.5	1990.4	1366.0	1006.8	816.1	732.8	697.0
22.5°	6796.9	5943.0	4361.2	3124.0	2234.3	1422.1	942.9	739.6	641.8	597.3	577.0
25°	7579.1	6494.8	4470.6	2916.8	1840.3	1061.0	734.8	619.6	550.8	516.0	501.5
27.5°	8412.6	7129.9	4641.0	2736.8	1519.9	846.1	629.3	530.5	481.1	456.9	443.4
30°	9099.9	7865.6	4813.3	2536.4	1287.5	737.7	576.0	484.0	426.9	411.4	398.8
32.5°	9701.1	8422.3	4935.3	2355.3	1135.6	655.4	520.8	432.7	394.0	364.0	350.4
35°	10323.6	8886.0	4931.4	2228.5	1031.0	593.4	474.4	387.2	340.8	305.9	295.3
37.5°	10997.4	9409.7	4847.2	2120.1	985.5	544.1	448.2	363.0	316.6	281.7	268.2
40°	11786.3	9959.6	4761.0	2018.4	972.9	504.4	429.8	343.7	294.3	260.4	246.9
42.5°	12555.0	10455.2	4685.5	1942.9	918.7	503.4	413.4	329.1	276.9	244.0	228.5
45°	13169.7	10917.0	4671.0	1897.4	861.6	520.8	404.7	319.5	263.3	230.4	215.9
47.5°	13680.9	11418.5	4763.9	1865.5	807.4	475.3	426.0	312.7	250.7	218.8	202.3
50°	14288.8	12034.2	4982.7	1813.2	750.3	427.9	487.9	314.6	240.1	207.2	189.7
52.5°	15136.9	12886.1	5304.1	1725.1	671.8	384.3	480.2	316.6	228.5	194.6	177.2
55°	16087.5	13950.0	5649.7	1578.9	562.5	327.2	411.4	303.0	206.2	181.0	164.6
57.5°	17086.6	14915.2	5854.9	1404.7	447.3	282.7	329.1	275.9	182.0	162.6	152.0
60°	17243.4	15282.1	5761.0	1190.7	355.3	245.9	244.0	280.7	162.6	143.3	135.5
62.5°	16853.3	14821.3	5307.0	1000.0	297.2	215.9	200.4	244.9	147.1	127.8	120.0
65°	16103.0	13575.4	4571.3	901.3	275.9	184.9	166.5	172.3	128.8	111.3	104.6
67.5°	15059.4	11912.2	3753.2	845.1	273.0	158.8	142.3	130.7	111.3	96.8	91.0
70°	12925.8	9923.8	2994.3	814.2	265.3	133.6	120.0	106.5	92.9	82.3	77.4
72.5°	9513.3	7032.1	2329.2	780.3	267.2	106.5	104.6	88.1	74.5	63.9	62.0
75°	5496.7	4017.5	1527.6	632.2	254.6	82.3	87.1	62.0	52.3	44.5	44.5
77.5°	2929.4	2450.2	581.8	263.3	92.9	52.3	49.4	36.8	32.9	27.1	26.1
80°	1276.9	1078.4	175.2	73.6	51.3	28.1	18.4	16.5	14.5	11.6	10.6
82.5°	452.1	390.1	57.1	35.8	22.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	102.6	73.6	0.0	8.7	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°	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9
2.5°	5815.2	5793.9	5668.1	5672.9	5695.2	5727.1	5651.6	5686.5	5780.4	5870.4	5904.3
5°	4496.7	4501.6	4425.1	4472.5	4515.1	4544.2	4422.2	4424.1	4498.7	4600.3	4653.6
7.5°	3168.5	3160.8	3164.6	3277.9	3358.3	3300.2	3345.7	3187.9	3197.6	3270.2	3216.0
10°	2355.3	2248.8	2188.8	2274.0	2362.1	2330.2	2251.7	2200.4	2236.3	2316.6	2310.8
12.5°	1851.0	1698.0	1608.0	1547.0	1619.6	1559.6	1557.6	1513.1	1464.7	1473.4	1602.2
15°	1392.1	1280.8	1174.3	1076.5	1074.6	1054.2	950.7	834.5	824.8	830.6	897.4
17.5°	957.4	919.7	876.1	791.9	769.6	684.4	583.8	537.3	514.0	524.7	547.0
20°	672.8	658.3	663.1	617.6	585.7	504.4	445.3	426.9	423.1	433.7	444.3
22.5°	557.6	531.5	528.6	508.2	476.3	417.2	385.3	374.6	369.8	379.5	387.2
25°	487.9	461.8	451.1	438.5	404.7	364.0	344.6	335.0	330.1	335.9	340.8
27.5°	429.8	405.6	395.9	387.2	354.3	325.3	309.8	301.1	297.2	299.1	304.0
30°	386.3	365.0	352.4	341.7	313.7	293.3	279.8	271.1	267.2	267.2	272.0
32.5°	340.8	329.1	317.5	304.0	277.8	264.3	250.7	241.1	237.2	238.1	242.0
35°	283.6	279.8	282.7	270.1	247.8	236.2	222.7	212.0	209.1	210.1	213.9
37.5°	251.7	234.3	244.9	238.1	225.6	210.1	192.6	183.0	178.1	181.0	183.0
40°	231.4	210.1	202.3	209.1	207.2	182.0	166.5	156.8	153.0	153.9	155.9
42.5°	213.9	188.8	171.3	170.4	182.0	158.8	142.3	133.6	128.8	128.8	130.7
45°	197.5	170.4	149.1	132.6	153.0	134.6	119.1	111.3	105.5	105.5	106.5
47.5°	184.9	154.9	129.7	108.4	115.2	110.4	97.8	90.0	84.2	84.2	85.2
50°	173.3	139.4	112.3	91.0	86.2	91.0	79.4	70.7	66.8	65.8	67.8
52.5°	160.7	123.9	95.8	77.4	67.8	68.7	62.0	56.1	51.3	51.3	53.2
55°	148.1	111.3	83.3	65.8	56.1	51.3	49.4	45.5	41.6	41.6	43.6
57.5°	135.5	97.8	70.7	54.2	44.5	40.7	40.7	37.8	34.9	34.9	36.8
60°	123.9	84.2	58.1	44.5	34.9	33.9	34.9	31.9	30.0	30.0	31.9
62.5°	110.4	71.6	47.4	36.8	28.1	27.1	30.0	28.1	26.1	26.1	28.1
65°	93.9	61.0	37.8	28.1	21.3	21.3	25.2	23.2	21.3	21.3	23.2
67.5°	79.4	51.3	29.0	20.3	15.5	16.5	21.3	19.4	18.4	18.4	20.3
70°	65.8	39.7	20.3	12.6	8.7	12.6	16.5	16.5	16.5	16.5	18.4
72.5°	49.4	27.1	11.6	4.8	3.9	8.7	13.6	15.5	14.5	14.5	17.4
75°	31.9	15.5	3.9	0.0	0.0	4.8	10.6	12.6	12.6	11.6	14.5
77.5°	18.4	4.8	0.0	0.0	0.0	0.0	6.8	5.8	4.8	3.9	6.8
80°	4.8	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: P324071

CATALOG NUMBER: GAN-SA7A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9	6855.9
2.5°	6040.8	6155.0	6315.7	6486.1	6748.5	6956.6	7160.9	7336.1	7403.9	7431.9
5°	4781.3	4948.8	5184.1	5486.1	5959.5	6385.4	6817.2	7251.9	7440.6	7488.1
7.5°	3430.9	3644.8	3943.9	4322.5	4877.2	5429.0	6032.1	6670.1	6962.4	7036.0
10°	2539.3	2800.6	3143.3	3542.2	4071.7	4639.0	5296.4	6025.3	6359.3	6457.1
12.5°	1801.6	2154.9	2613.8	3098.8	3557.7	4064.0	4729.1	5532.6	5883.0	5988.5
15°	1058.1	1399.8	1942.9	2592.5	3180.1	3693.2	4368.9	5279.9	5666.2	5772.6
17.5°	607.0	777.4	1187.8	1912.0	2709.7	3420.2	4255.7	5342.8	5797.8	5896.6
20°	463.7	517.9	684.4	1231.4	2159.8	3152.1	4255.7	5699.1	6259.6	6404.8
22.5°	405.6	445.3	513.1	734.8	1589.6	2864.5	4305.0	6214.1	6946.9	7107.6
25°	360.1	395.9	454.0	552.8	1084.2	2522.8	4422.2	6846.2	7756.2	7964.4
27.5°	322.4	356.3	408.5	484.0	741.5	2110.4	4580.0	7587.8	8648.8	8815.3
30°	288.5	320.4	367.9	421.1	572.1	1642.8	4714.5	8286.7	9349.7	9528.8
32.5°	256.5	285.6	328.2	367.9	468.5	1214.9	4729.1	8840.5	9931.5	10109.6
35°	226.5	252.7	291.4	322.4	388.2	959.4	4503.5	9320.7	10513.3	10748.6
37.5°	197.5	222.7	256.5	279.8	341.7	782.2	4158.9	9856.0	11259.7	11477.5
40°	170.4	192.6	227.5	243.0	323.3	601.2	3784.2	10417.5	11991.6	12191.0
42.5°	145.2	166.5	200.4	230.4	283.6	449.2	3379.6	10944.1	12649.9	12859.0
45°	121.0	143.3	177.2	244.0	235.2	335.9	2946.8	11293.6	13169.7	13397.2
47.5°	97.8	122.9	169.4	232.3	187.8	246.9	2604.1	11624.7	13563.7	13788.3
50°	78.4	103.6	190.7	207.2	153.9	188.8	2460.9	11920.9	13822.2	14038.1
52.5°	63.9	87.1	180.1	158.8	128.8	155.9	2538.3	12401.1	14061.3	14196.9
55°	53.2	68.7	108.4	110.4	109.4	132.6	2634.1	13090.4	14679.9	14743.8
57.5°	46.5	55.2	75.5	85.2	92.0	118.1	2636.1	14079.7	15637.4	15677.1
60°	39.7	48.4	62.9	68.7	79.4	105.5	2540.2	14425.3	16013.9	16145.6
62.5°	34.9	42.6	52.3	57.1	66.8	94.9	2315.6	13924.8	15497.0	15720.6
65°	31.0	38.7	43.6	48.4	59.1	85.2	1945.8	12923.8	14639.3	14872.6
67.5°	27.1	33.9	38.7	43.6	53.2	75.5	1432.8	11761.2	13654.7	13848.4
70°	24.2	30.0	34.9	38.7	46.5	63.9	869.3	9979.9	12293.6	12374.0
72.5°	23.2	27.1	31.9	34.9	40.7	56.1	440.5	7334.2	9827.9	9958.6
75°	20.3	24.2	29.0	31.0	35.8	48.4	179.1	4817.2	7122.1	7332.2
77.5°	16.5	22.3	26.1	28.1	31.0	39.7	91.0	3078.5	4998.2	5133.7
80°	5.8	16.5	22.3	23.2	26.1	29.0	60.0	1685.4	2899.4	2957.5
82.5°	0.0	10.6	17.4	16.5	18.4	22.3	38.7	801.6	1913.9	1935.2
85°	0.0	4.8	13.6	10.6	7.7	15.5	13.6	175.2	1003.9	1045.5
87.5°	0.0	0.0	1.0	4.8	3.9	5.8	1.9	1.0	91.0	115.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)