

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: P324101

Luminaire Tested: **GAN-SA7D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324101
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-SA7D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 34024 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

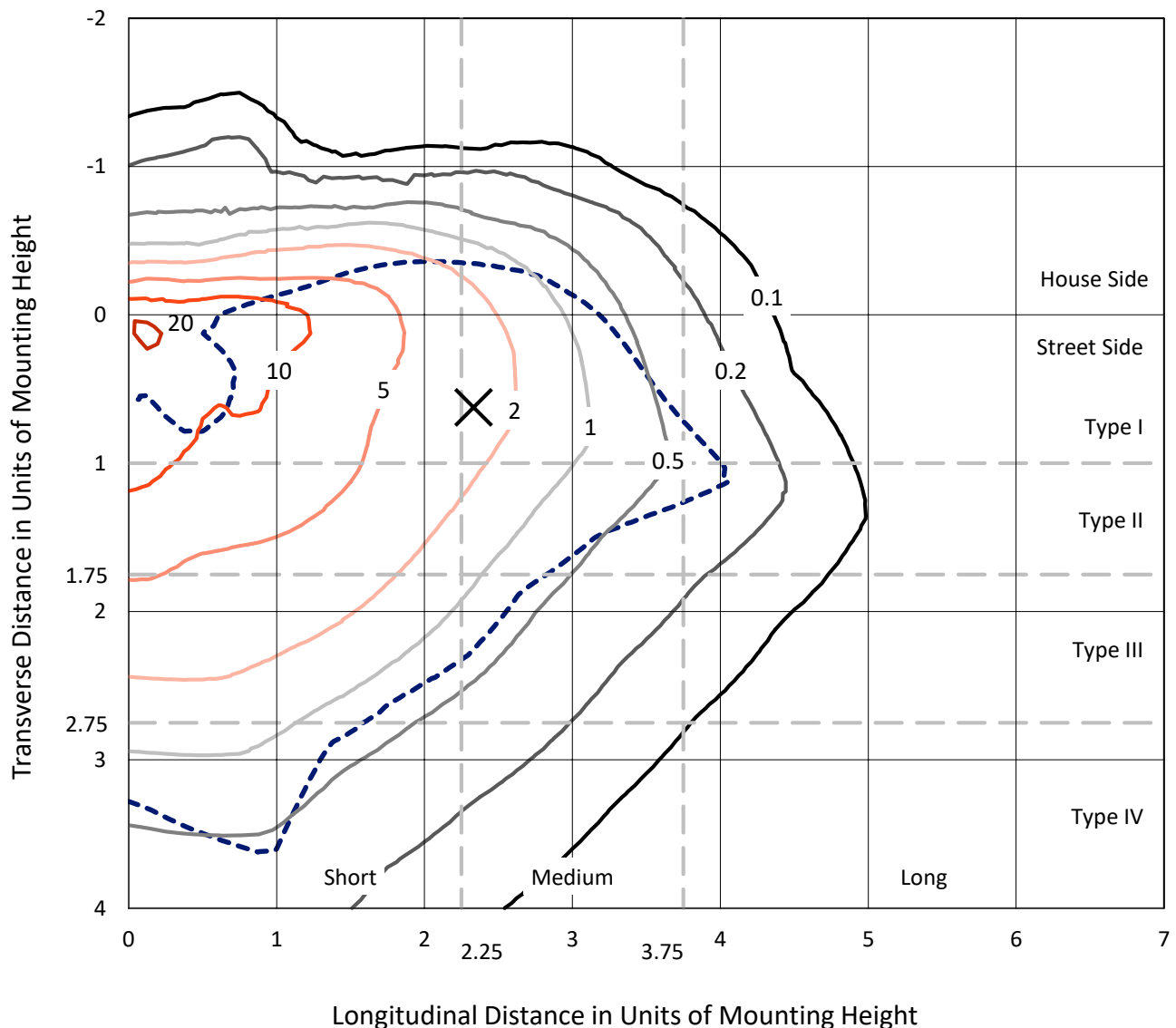
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

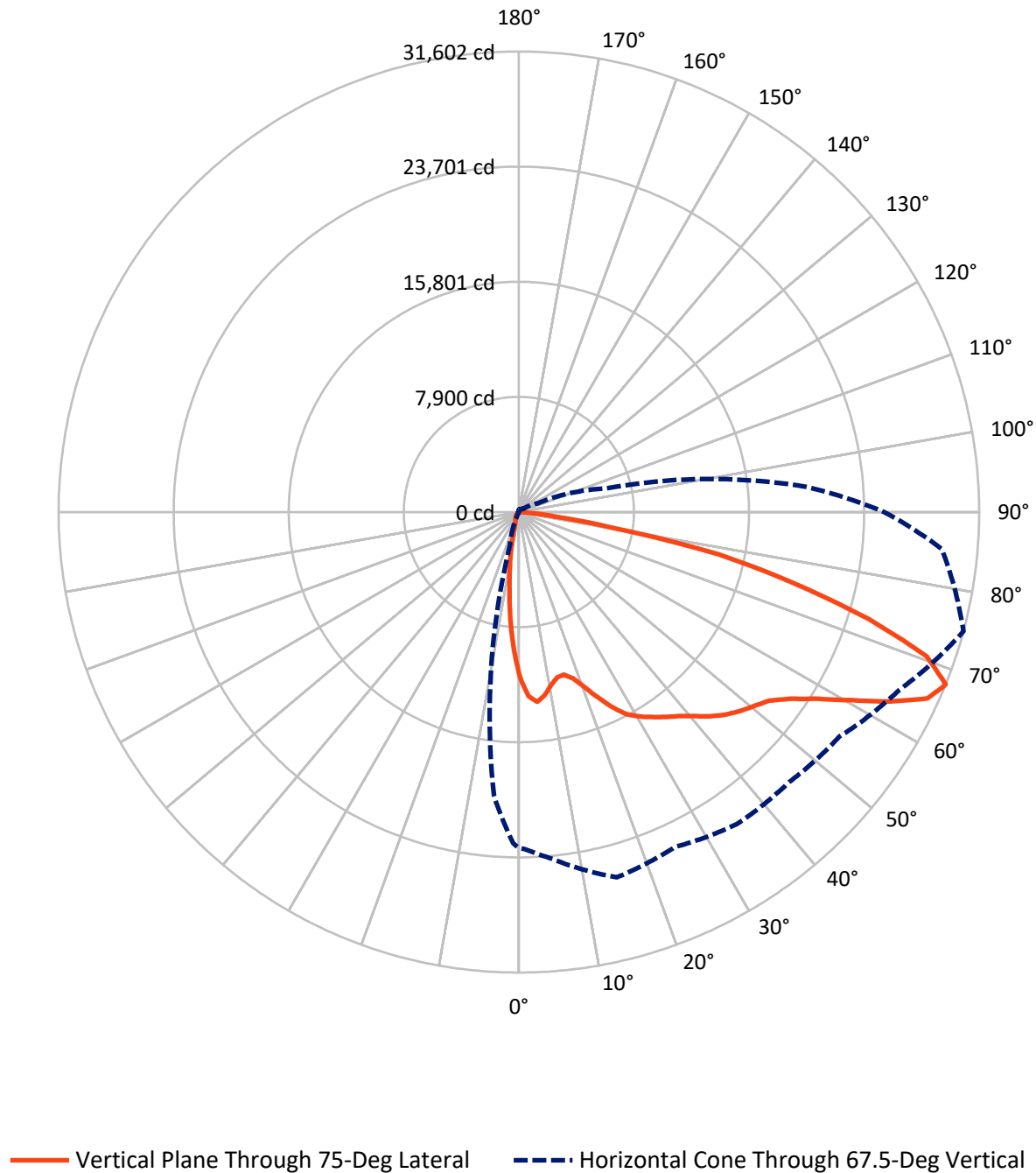
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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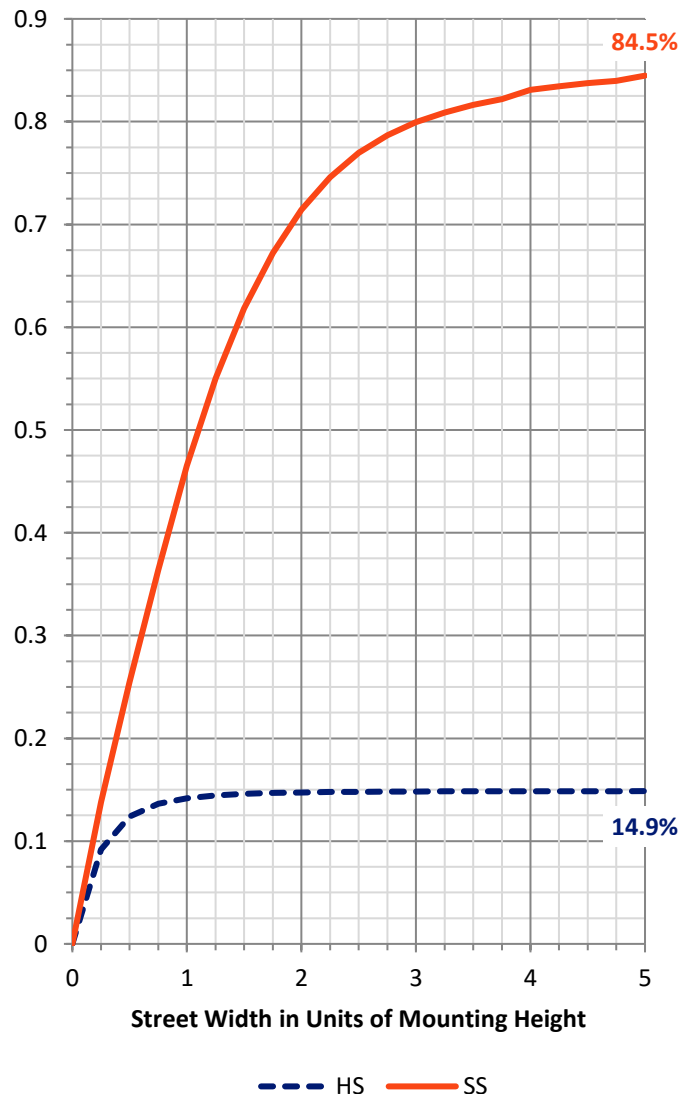
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5105.7	0.0	5105.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	28918.3	0.0	28918.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	34024.0	0.0	34024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.8	2.5
10°-20°	1704.9	5.0
20°-30°	2411.9	7.1
30°-40°	3546.1	10.4
40°-50°	5097.0	15.0
50°-60°	7175.2	21.1
60°-70°	8380.0	24.6
70°-80°	4275.2	12.6
80°-90°	567.9	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°	34024.0	100.0
0°-180°	34024.0	100.0

Coefficient of Utilization



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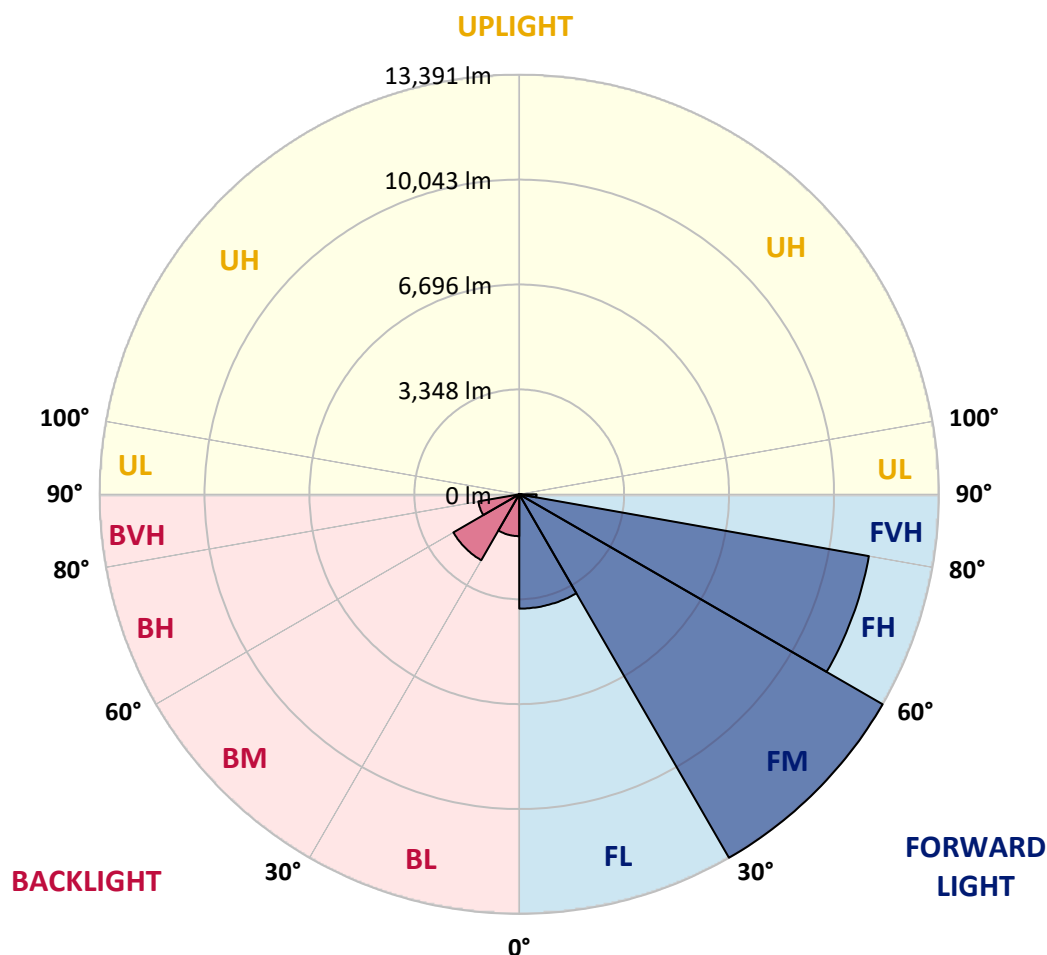
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3647.4	10.7			
FM	(30°-60°)	13391.2	39.4			
FH	(60°-80°)	11329.0	33.3			G4/12000
FVH	(80°-90°)	550.7	1.6			G4/750
BL	(0°-30°)	1335.2	3.9	B3/2500		
BM	(30°-60°)	2427.1	7.1	B2/2500		
BH	(60°-80°)	1326.2	3.9	B3/2500		G3/2500
BVH	(80°-90°)	17.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5
2.5°	12373.5	12392.8	12492.7	12724.8	12977.9	12997.2	13168.1	12992.4	12932.7	12649.1	12355.7
5°	12466.9	12541.1	12884.4	13566.2	14157.7	14347.9	14483.3	14138.3	13775.7	13082.6	12342.8
7.5°	11714.3	11838.4	12378.3	13658.0	14715.4	15182.8	15271.4	14731.5	13843.4	12702.3	11590.2
10°	10750.4	10892.3	11543.4	13116.5	14568.7	15369.7	15492.2	14784.7	13508.1	12086.6	10776.2
12.5°	9970.3	10136.3	10802.0	12507.2	14064.2	14950.7	15192.4	14605.8	13218.0	11649.8	10220.2
15°	9610.9	9801.1	10500.6	12114.0	13504.9	14202.8	14402.7	14149.6	13056.9	11580.5	10091.2
17.5°	9817.2	10023.5	10745.6	12147.8	12979.5	13277.7	13438.8	13542.0	13056.9	11997.9	10468.4
20°	10663.4	10885.8	11649.8	12491.1	12544.3	12433.1	12605.6	12968.2	13208.4	12790.9	11374.2
22.5°	11833.5	12094.6	12956.9	13079.4	12331.6	11910.9	11933.5	12502.4	13484.0	13796.6	12631.3
25°	13259.9	13579.1	14455.9	13956.2	12420.2	11599.8	11591.8	12118.8	13753.1	14804.0	14032.0
27.5°	14676.7	15028.0	15798.5	15026.4	12786.1	11543.4	11527.3	12002.8	14015.8	15700.1	15561.5
30°	15864.5	16206.2	16870.3	15801.7	13181.0	11675.6	11598.2	12126.9	14172.2	16282.0	16676.9
32.5°	16831.6	17105.6	17642.3	16335.2	13603.2	11931.8	11764.2	12458.9	14438.1	16773.6	17701.9
35°	17895.3	18183.9	18398.2	16842.9	14077.1	12300.9	12060.8	12985.9	14847.5	17273.2	18825.3
37.5°	19109.0	19395.9	19370.1	17307.1	14678.3	12911.8	12758.7	13820.8	15484.2	17768.0	20079.3
40°	20296.9	20590.2	20380.7	17814.8	15384.2	13919.1	13806.3	15074.8	16336.8	18401.4	21549.2
42.5°	21409.0	21726.5	21278.4	18295.1	16225.6	15189.2	15382.6	16689.8	17403.8	19181.5	22816.0
45°	22305.1	22629.1	22031.1	18762.5	17112.0	16730.0	17311.9	18478.8	18686.7	19840.7	23671.9
47.5°	22956.3	23262.5	22553.3	19229.9	18246.7	18614.2	19628.0	20354.9	19845.6	20412.9	24279.5
50°	23372.1	23610.6	22706.4	19815.0	19736.0	20812.6	22040.8	22395.4	20936.7	20928.7	25017.7
52.5°	23636.4	23744.4	22819.3	20425.8	21289.7	23206.1	24403.6	24514.8	22060.1	21496.0	26012.2
55°	24547.1	24634.1	23618.7	21165.6	22574.3	25303.0	26540.8	26437.7	23331.8	22606.5	27185.5
57.5°	26100.8	26192.7	25270.8	22229.4	23613.9	26598.8	28089.7	28275.1	24822.7	24166.7	28442.7
60°	26880.9	27051.7	26722.9	23576.8	24621.2	27427.3	29145.4	29736.9	26685.9	26223.3	29661.2
62.5°	26173.3	26421.5	26898.6	25070.9	25622.1	27883.4	29474.2	30260.8	28594.2	28620.0	30412.3
65°	24761.4	24959.7	25768.8	25889.7	26202.3	27827.0	28661.9	29529.0	29762.7	30821.6	30372.0
67.5°	23056.2	23130.3	23816.9	25954.1	25361.0	26131.4	26221.7	26863.2	28839.2	31601.7	29151.9
70°	20601.5	20641.8	21241.4	23796.0	21794.2	21963.4	21829.7	21960.2	24793.7	29701.5	26071.8
72.5°	16580.2	16681.7	17534.3	19761.8	15877.4	15389.1	16439.9	16381.9	19094.5	25093.5	19363.7
75°	12207.5	12383.1	13670.9	15917.7	11143.7	10079.9	10847.1	11051.8	13574.2	19410.4	12109.1
77.5°	8547.2	8677.7	9925.2	11701.4	8065.2	7207.8	6930.6	7173.9	8959.8	14041.6	6100.5
80°	4923.9	4972.3	5768.5	6756.5	5434.8	6218.2	5633.1	5800.7	5368.8	6247.2	2623.9
82.5°	3221.9	3230.0	3541.0	4021.3	3384.7	3932.7	2910.8	3721.5	3302.5	2509.5	854.2
85°	1740.7	1750.4	2053.4	2854.4	1916.4	1083.1	636.6	1307.1	2042.1	575.4	233.7
87.5°	191.8	175.7	618.9	1038.0	531.9	98.3	33.8	146.7	327.2	37.1	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°	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5
2.5°	12205.8	12072.1	11738.4	11385.5	11101.8	10835.8	10568.3	10241.1	9988.1	9936.5	9852.7
5°	11944.7	11520.8	10821.3	10118.6	9552.9	8838.9	8386.0	8033.0	7688.1	7667.1	7597.8
7.5°	11032.5	10474.8	9490.0	8518.1	7721.9	7041.8	6355.2	5895.8	5534.8	5407.4	5331.7
10°	10155.7	9528.7	8298.9	7190.1	6479.3	5878.1	5394.6	4914.3	4479.1	4179.3	4043.9
12.5°	9543.2	8850.2	7494.7	6538.9	6029.6	5459.0	4869.1	4269.5	3768.3	3407.3	3186.4
15°	9306.3	8566.5	7225.5	6281.0	5652.4	4930.4	4176.1	3491.1	2935.0	2607.8	2409.6
17.5°	9588.3	8727.7	7204.6	5966.7	5088.3	4190.6	3357.3	2548.2	2024.4	1776.2	1648.8
20°	10304.0	9240.2	7196.5	5581.5	4417.8	3313.8	2274.2	1676.2	1358.7	1220.1	1160.5
22.5°	11316.2	9894.6	7261.0	5201.1	3719.9	2367.7	1569.9	1231.4	1068.6	994.5	960.6
25°	12618.5	10813.3	7443.1	4856.2	3064.0	1766.5	1223.3	1031.5	917.1	859.1	834.9
27.5°	14006.2	11870.6	7726.8	4556.4	2530.5	1408.7	1047.6	883.2	801.0	760.7	738.2
30°	15150.5	13095.5	8013.7	4222.8	2143.6	1228.2	959.0	805.9	710.8	685.0	664.0
32.5°	16151.4	14022.3	8216.7	3921.4	1890.6	1091.2	867.1	720.5	656.0	606.0	583.5
35°	17187.8	14794.3	8210.3	3710.3	1716.5	988.0	789.8	644.7	567.3	509.3	491.6
37.5°	18309.6	15666.3	8070.1	3529.8	1640.8	905.8	746.2	604.4	527.0	469.0	446.5
40°	19623.2	16581.8	7926.6	3360.5	1619.8	839.7	715.6	572.2	490.0	433.6	411.0
42.5°	20902.9	17407.0	7800.9	3234.8	1529.6	838.1	688.2	548.0	461.0	406.2	380.4
45°	21926.4	18175.8	7776.7	3159.0	1434.5	867.1	673.7	531.9	438.4	383.6	359.4
47.5°	22777.4	19010.7	7931.5	3105.9	1344.2	791.4	709.2	520.6	417.4	364.3	336.9
50°	23789.5	20035.8	8295.7	3018.8	1249.1	712.4	812.3	523.8	399.7	344.9	315.9
52.5°	25201.4	21454.1	8830.8	2872.2	1118.6	639.9	799.4	527.0	380.4	324.0	295.0
55°	26784.2	23225.4	9406.2	2628.8	936.4	544.8	685.0	504.5	343.3	301.4	274.0
57.5°	28447.5	24832.4	9747.9	2338.7	744.6	470.6	548.0	459.4	303.0	270.8	253.0
60°	28708.6	25443.2	9591.6	1982.5	591.5	409.4	406.2	467.4	270.8	238.5	225.6
62.5°	28059.1	24676.0	8835.7	1664.9	494.8	359.4	333.6	407.8	245.0	212.8	199.9
65°	26810.0	22601.7	7610.7	1500.5	459.4	307.8	277.2	286.9	214.4	185.4	174.1
67.5°	25072.5	19832.7	6248.8	1407.1	454.5	264.3	236.9	217.6	185.4	161.2	151.5
70°	21520.2	16522.1	4985.2	1355.5	441.6	222.4	199.9	177.3	154.7	137.0	128.9
72.5°	15838.7	11707.8	3877.9	1299.1	444.8	177.3	174.1	146.7	124.1	106.4	103.2
75°	9151.6	6688.8	2543.4	1052.5	423.9	137.0	145.1	103.2	87.0	74.1	74.1
77.5°	4877.2	4079.4	968.7	438.4	154.7	87.0	82.2	61.2	54.8	45.1	43.5
80°	2125.9	1795.5	291.7	122.5	85.4	46.7	30.6	27.4	24.2	19.3	17.7
82.5°	752.7	649.5	95.1	59.6	37.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	170.8	122.5	0.0	14.5	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°	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5
2.5°	9681.8	9646.4	9436.8	9444.9	9482.0	9535.2	9409.4	9467.5	9623.8	9773.7	9830.1
5°	7486.6	7494.7	7367.3	7446.3	7517.2	7565.6	7362.5	7365.7	7489.8	7659.1	7747.7
7.5°	5275.3	5262.4	5268.8	5457.4	5591.2	5494.5	5570.2	5307.5	5323.6	5444.5	5354.3
10°	3921.4	3744.1	3644.2	3786.0	3932.7	3879.5	3748.9	3663.5	3723.2	3856.9	3847.3
12.5°	3081.7	2827.0	2677.1	2575.6	2696.5	2596.5	2593.3	2519.2	2438.6	2453.1	2667.5
15°	2317.7	2132.4	1955.1	1792.3	1789.1	1755.2	1582.7	1389.3	1373.2	1382.9	1494.1
17.5°	1594.0	1531.2	1458.6	1318.4	1281.3	1139.5	971.9	894.5	855.8	873.6	910.6
20°	1120.2	1096.0	1104.1	1028.3	975.1	839.7	741.4	710.8	704.3	722.1	739.8
22.5°	928.4	884.9	880.0	846.2	793.0	694.7	641.5	623.8	615.7	631.8	644.7
25°	812.3	768.8	751.1	730.1	673.7	606.0	573.8	557.7	549.6	559.3	567.3
27.5°	715.6	675.3	659.2	644.7	589.9	541.6	515.8	501.3	494.8	498.0	506.1
30°	643.1	607.6	586.7	569.0	522.2	488.4	465.8	451.3	444.8	444.8	452.9
32.5°	567.3	548.0	528.7	506.1	462.6	440.0	417.4	401.3	394.9	396.5	402.9
35°	472.2	465.8	470.6	449.7	412.6	393.3	370.7	353.0	348.1	349.8	356.2
37.5°	419.1	390.0	407.8	396.5	375.5	349.8	320.7	304.6	296.6	301.4	304.6
40°	385.2	349.8	336.9	348.1	344.9	303.0	277.2	261.1	254.7	256.3	259.5
42.5°	356.2	314.3	285.3	283.7	303.0	264.3	236.9	222.4	214.4	214.4	217.6
45°	328.8	283.7	248.2	220.8	254.7	224.0	198.2	185.4	175.7	175.7	177.3
47.5°	307.8	257.9	216.0	180.5	191.8	183.7	162.8	149.9	140.2	140.2	141.8
50°	288.5	232.1	187.0	151.5	143.4	151.5	132.2	117.7	111.2	109.6	112.8
52.5°	267.6	206.3	159.6	128.9	112.8	114.4	103.2	93.5	85.4	85.4	88.6
55°	246.6	185.4	138.6	109.6	93.5	85.4	82.2	75.8	69.3	69.3	72.5
57.5°	225.6	162.8	117.7	90.3	74.1	67.7	67.7	62.9	58.0	58.0	61.2
60°	206.3	140.2	96.7	74.1	58.0	56.4	58.0	53.2	50.0	50.0	53.2
62.5°	183.7	119.3	79.0	61.2	46.7	45.1	50.0	46.7	43.5	43.5	46.7
65°	156.3	101.5	62.9	46.7	35.5	35.5	41.9	38.7	35.5	35.5	38.7
67.5°	132.2	85.4	48.4	33.8	25.8	27.4	35.5	32.2	30.6	30.6	33.8
70°	109.6	66.1	33.8	21.0	14.5	21.0	27.4	27.4	27.4	27.4	30.6
72.5°	82.2	45.1	19.3	8.1	6.4	14.5	22.6	25.8	24.2	24.2	29.0
75°	53.2	25.8	6.4	0.0	0.0	8.1	17.7	21.0	21.0	19.3	24.2
77.5°	30.6	8.1	0.0	0.0	0.0	0.0	11.3	9.7	8.1	6.4	11.3
80°	8.1	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: P324101

CATALOG NUMBER: GAN-SA7D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5	11414.5
2.5°	10057.4	10247.6	10515.1	10798.8	11235.6	11582.1	11922.2	12213.9	12326.7	12373.5
5°	7960.5	8239.3	8631.0	9133.8	9922.0	10631.2	11350.0	12073.7	12388.0	12466.9
7.5°	5712.1	6068.3	6566.3	7196.5	8120.0	9038.7	10042.9	11105.0	11591.8	11714.3
10°	4227.6	4662.8	5233.4	5897.4	6779.1	7723.5	8817.9	10031.6	10587.6	10750.4
12.5°	2999.5	3587.8	4351.7	5159.2	5923.2	6766.2	7873.4	9211.2	9794.7	9970.3
15°	1761.7	2330.6	3234.8	4316.3	5294.6	6148.9	7273.9	8790.5	9433.6	9610.9
17.5°	1010.6	1294.2	1977.6	3183.2	4511.3	5694.3	7085.3	8895.3	9652.8	9817.2
20°	772.0	862.3	1139.5	2050.2	3595.8	5247.9	7085.3	9488.4	10421.6	10663.4
22.5°	675.3	741.4	854.2	1223.3	2646.5	4769.2	7167.5	10345.9	11566.0	11833.5
25°	599.6	659.2	755.9	920.3	1805.2	4200.2	7362.5	11398.4	12913.4	13259.9
27.5°	536.7	593.1	680.2	805.9	1234.6	3513.6	7625.2	12633.0	14399.4	14676.7
30°	480.3	533.5	612.5	701.1	952.5	2735.2	7849.3	13796.6	15566.4	15864.5
32.5°	427.1	475.5	546.4	612.5	780.1	2022.8	7873.4	14718.6	16535.0	16831.6
35°	377.2	420.7	485.1	536.7	646.3	1597.3	7497.9	15518.0	17503.7	17895.3
37.5°	328.8	370.7	427.1	465.8	569.0	1302.3	6924.1	16409.3	18746.4	19109.0
40°	283.7	320.7	378.8	404.6	538.3	1000.9	6300.4	17344.1	19964.8	20296.9
42.5°	241.8	277.2	333.6	383.6	472.2	747.9	5626.6	18220.9	21060.8	21409.0
45°	201.5	238.5	295.0	406.2	391.7	559.3	4906.2	18802.8	21926.4	22305.1
47.5°	162.8	204.7	282.1	386.8	312.7	411.0	4335.6	19354.0	22582.3	22956.3
50°	130.6	172.5	317.5	344.9	256.3	314.3	4097.1	19847.2	23012.7	23372.1
52.5°	106.4	145.1	299.8	264.3	214.4	259.5	4226.0	20646.6	23410.8	23636.4
55°	88.6	114.4	180.5	183.7	182.1	220.8	4385.6	21794.2	24440.7	24547.1
57.5°	77.4	91.9	125.7	141.8	153.1	196.6	4388.8	23441.4	26034.7	26100.8
60°	66.1	80.6	104.8	114.4	132.2	175.7	4229.3	24016.8	26661.7	26880.9
62.5°	58.0	70.9	87.0	95.1	111.2	158.0	3855.3	23183.5	25801.0	26173.3
65°	51.6	64.5	72.5	80.6	98.3	141.8	3239.6	21517.0	24373.0	24761.4
67.5°	45.1	56.4	64.5	72.5	88.6	125.7	2385.4	19581.2	22733.8	23056.2
70°	40.3	50.0	58.0	64.5	77.4	106.4	1447.4	16615.6	20467.7	20601.5
72.5°	38.7	45.1	53.2	58.0	67.7	93.5	733.3	12210.7	16362.6	16580.2
75°	33.8	40.3	48.4	51.6	59.6	80.6	298.2	8020.1	11857.7	12207.5
77.5°	27.4	37.1	43.5	46.7	51.6	66.1	151.5	5125.4	8321.5	8547.2
80°	9.7	27.4	37.1	38.7	43.5	48.4	99.9	2806.1	4827.2	4923.9
82.5°	0.0	17.7	29.0	27.4	30.6	37.1	64.5	1334.5	3186.4	3221.9
85°	0.0	8.1	22.6	17.7	12.9	25.8	22.6	291.7	1671.4	1740.7
87.5°	0.0	0.0	1.6	8.1	6.4	9.7	3.2	1.6	151.5	191.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)