

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: P324081

Luminaire Tested: **GAN-SA7B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324081
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-SA7B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 25060 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

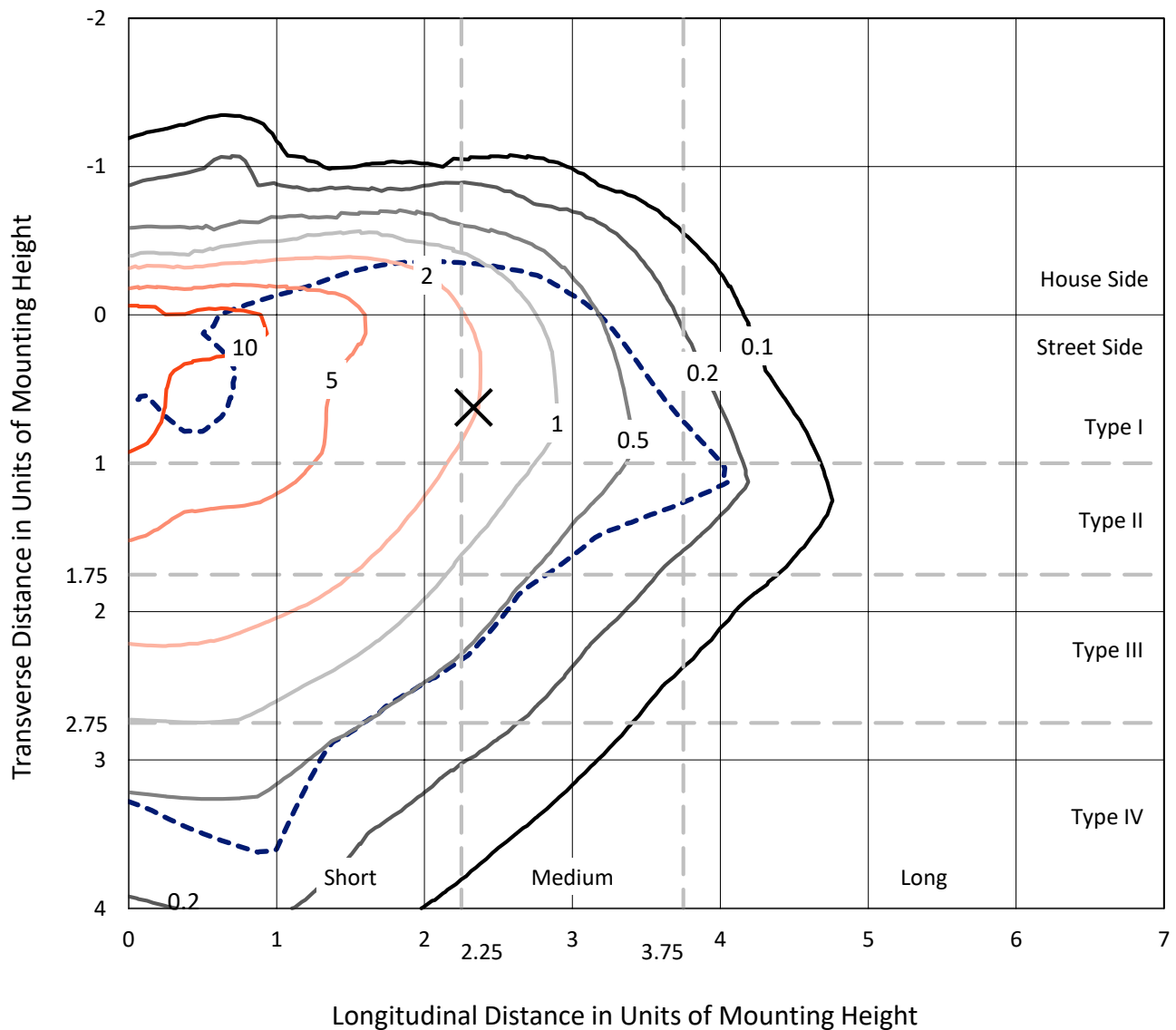
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

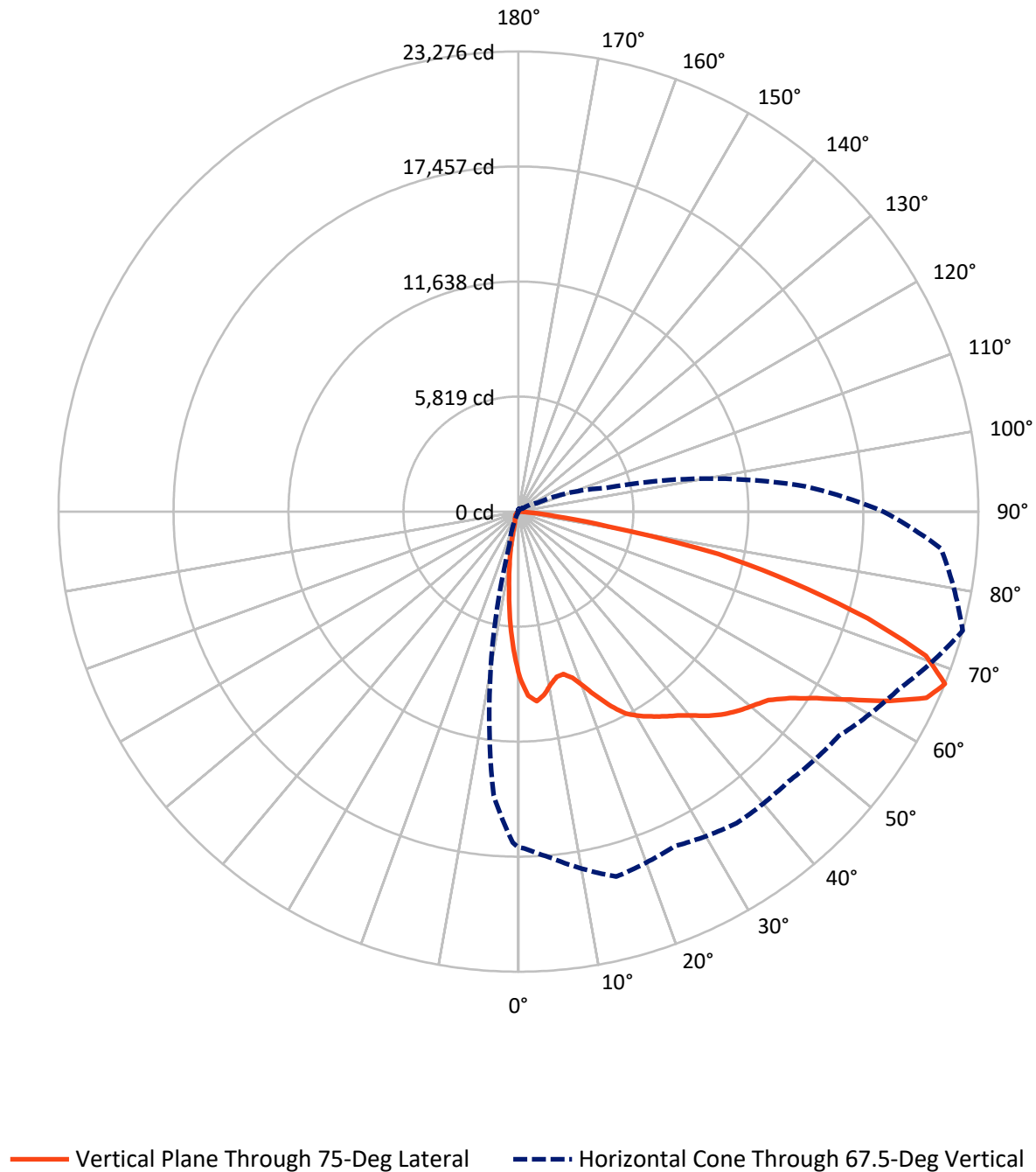
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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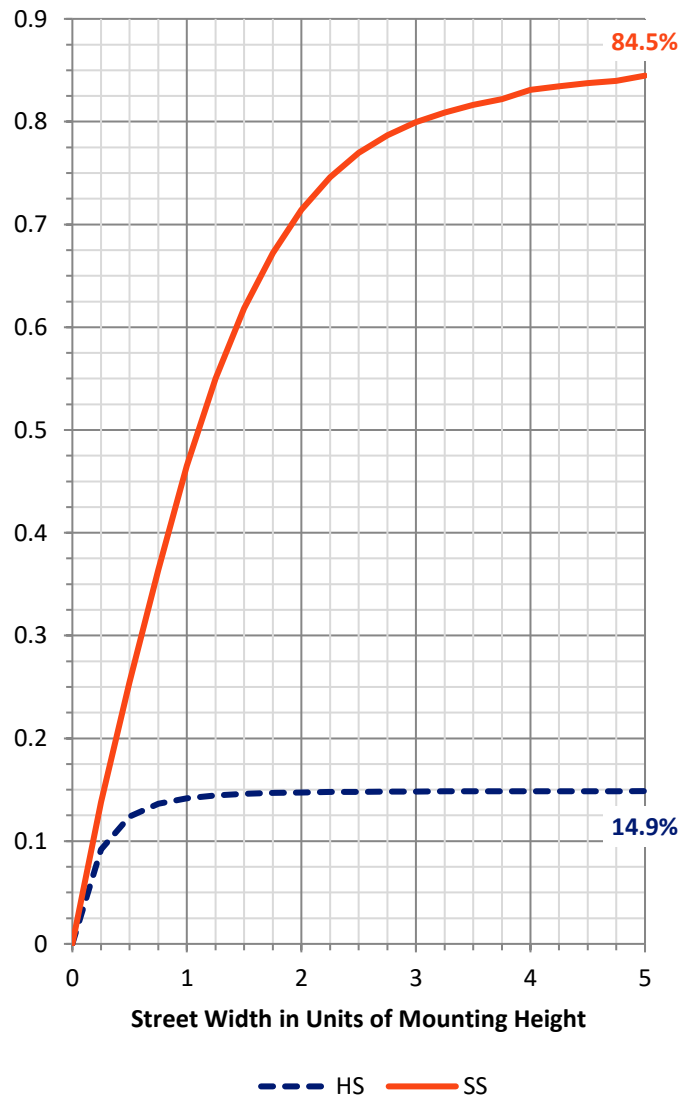
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3760.5	0.0	3760.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	21299.5	0.0	21299.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	25060.0	0.0	25060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.7	2.5
10°-20°	1255.7	5.0
20°-30°	1776.4	7.1
30°-40°	2611.9	10.4
40°-50°	3754.1	15.0
50°-60°	5284.8	21.1
60°-70°	6172.2	24.6
70°-80°	3148.8	12.6
80°-90°	418.3	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°	25060.0	100.0
0°-180°	25060.0	100.0

Coefficient of Utilization



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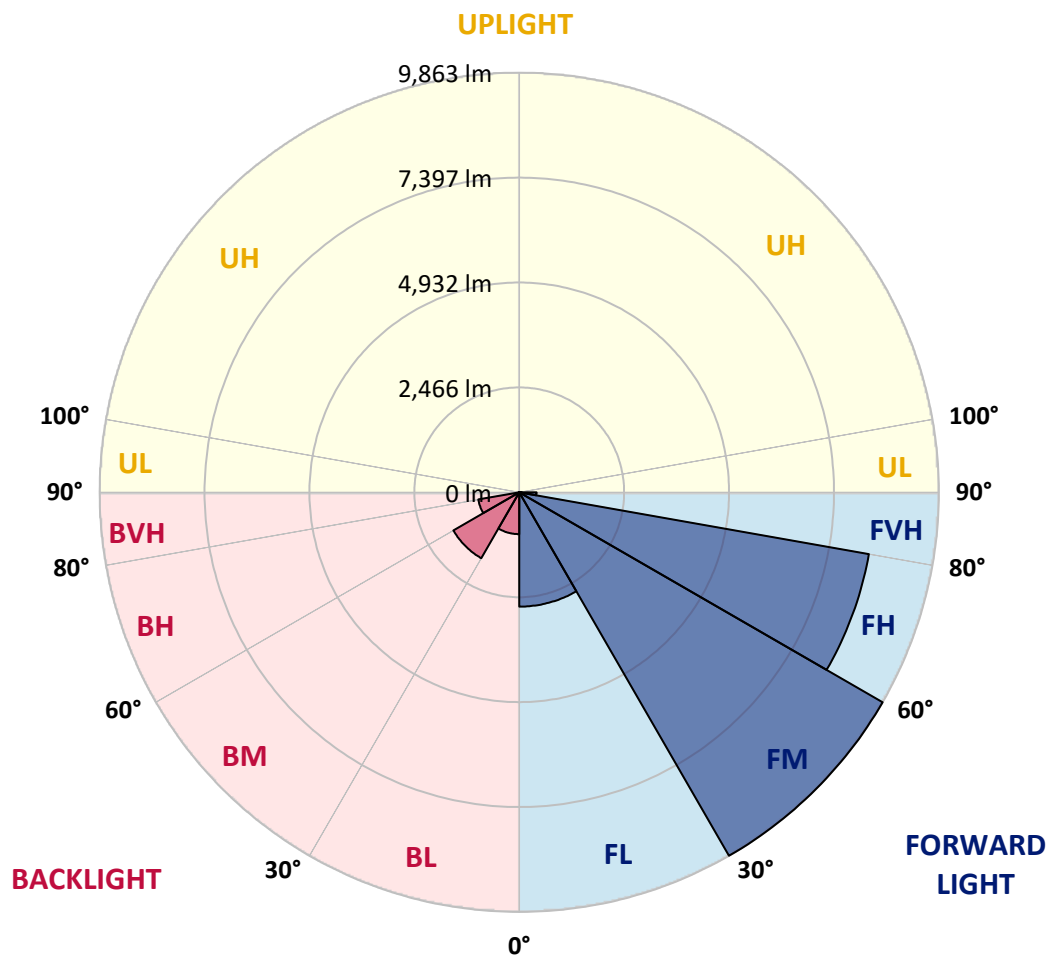
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2686.4	10.7			
FM	(30°-60°)	9863.2	39.4			
FH	(60°-80°)	8344.3	33.3			G4/12000
FVH	(80°-90°)	405.6	1.6			G3/500
BL	(0°-30°)	983.4	3.9	B2/1000		
BM	(30°-60°)	1787.6	7.1	B2/2500		
BH	(60°-80°)	976.8	3.9	B2/1000		G2/1000
BVH	(80°-90°)	12.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2
2.5°	9113.5	9127.8	9201.4	9372.3	9558.7	9573.0	9698.8	9569.4	9525.5	9316.5	9100.5
5°	9182.4	9237.0	9489.9	9992.0	10427.7	10567.8	10667.5	10413.4	10146.3	9635.9	9091.0
7.5°	8628.0	8719.4	9117.1	10059.7	10838.4	11182.7	11248.0	10850.3	10196.2	9355.7	8536.6
10°	7918.1	8022.6	8502.2	9660.8	10730.4	11320.4	11410.6	10889.5	9949.3	8902.2	7937.1
12.5°	7343.5	7465.8	7956.1	9212.1	10358.8	11011.7	11189.8	10757.7	9735.6	8580.5	7527.5
15°	7078.8	7218.9	7734.1	8922.4	9946.9	10460.9	10608.1	10421.7	9616.9	8529.5	7432.6
17.5°	7230.8	7382.7	7914.5	8947.3	9559.9	9779.5	9898.2	9974.2	9616.9	8836.9	7710.4
20°	7854.0	8017.8	8580.5	9200.2	9239.4	9157.5	9284.5	9551.6	9728.5	9421.0	8377.5
22.5°	8715.9	8908.2	9543.3	9633.5	9082.7	8772.8	8789.5	9208.5	9931.5	10161.8	9303.5
25°	9766.5	10001.5	10647.3	10279.3	9148.0	8543.7	8537.8	8926.0	10129.7	10903.7	10335.1
27.5°	10809.9	11068.7	11636.2	11067.5	9417.4	8502.2	8490.3	8840.5	10323.2	11563.8	11461.7
30°	11684.8	11936.5	12425.6	11638.5	9708.3	8599.5	8542.5	8931.9	10438.4	11992.3	12283.2
32.5°	12397.1	12598.9	12994.2	12031.5	10019.3	8788.3	8664.8	9176.5	10634.2	12354.4	13038.2
35°	13180.6	13393.1	13551.0	12405.4	10368.3	9060.1	8883.2	9564.6	10935.8	12722.4	13865.6
37.5°	14074.5	14285.8	14266.8	12747.3	10811.1	9510.0	9397.3	10179.6	11404.7	13086.8	14789.2
40°	14949.4	15165.5	15011.2	13121.3	11331.1	10252.0	10168.9	11103.2	12032.7	13553.4	15871.8
42.5°	15768.5	16002.4	15672.4	13475.0	11950.8	11187.4	11329.9	12292.7	12818.5	14127.9	16804.9
45°	16428.6	16667.2	16226.8	13819.3	12603.7	12322.3	12750.9	13610.4	13763.5	14613.5	17435.3
47.5°	16908.2	17133.7	16611.4	14163.6	13439.4	13710.1	14456.8	14992.2	14617.0	15034.9	17882.8
50°	17214.5	17390.2	16724.2	14594.5	14536.3	15329.3	16233.9	16495.1	15420.7	15414.8	18426.5
52.5°	17409.2	17488.7	16807.3	15044.4	15680.7	17092.2	17974.2	18056.1	16248.1	15832.7	19159.0
55°	18079.9	18144.0	17396.1	15589.3	16626.8	18636.6	19548.3	19472.4	17184.8	16650.6	20023.2
57.5°	19224.3	19291.9	18612.9	16372.8	17392.5	19591.1	20689.2	20825.7	18282.9	17799.7	20949.2
60°	19798.8	19924.7	19682.5	17365.2	18134.5	20201.3	21466.7	21902.4	19655.2	19314.5	21846.6
62.5°	19277.7	19460.5	19811.9	18465.7	18871.7	20537.2	21708.9	22288.2	21060.7	21079.7	22399.8
65°	18237.8	18383.8	18979.7	19068.7	19299.1	20495.7	21110.6	21749.3	21921.4	22701.3	22370.1
67.5°	16981.8	17036.4	17542.1	19116.2	18679.4	19246.8	19313.3	19785.8	21241.2	23275.9	21471.5
70°	15173.8	15203.5	15645.1	17526.7	16052.3	16176.9	16078.4	16174.5	18261.5	21876.3	19202.9
72.5°	12211.9	12286.7	12914.7	14555.3	11694.3	11334.6	12108.6	12065.9	14063.8	18482.3	14262.1
75°	8991.3	9120.7	10069.2	11724.0	8207.8	7424.3	7989.3	8140.1	9997.9	14296.5	8918.9
77.5°	6295.3	6391.5	7310.3	8618.5	5940.4	5308.8	5104.6	5283.9	6599.2	10342.2	4493.3
80°	3626.7	3662.3	4248.7	4976.4	4003.0	4579.9	4149.0	4272.5	3954.3	4601.3	1932.6
82.5°	2373.1	2379.0	2608.1	2961.9	2493.0	2896.6	2143.9	2741.1	2432.4	1848.3	629.2
85°	1282.1	1289.2	1512.4	2102.4	1411.5	797.7	468.9	962.8	1504.1	423.8	172.1
87.5°	141.3	129.4	455.9	764.5	391.8	72.4	24.9	108.0	241.0	27.3	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°	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2
2.5°	8990.1	8891.5	8645.8	8385.8	8176.9	7981.0	7784.0	7543.0	7356.6	7318.6	7256.9
5°	8797.8	8485.6	7970.3	7452.8	7036.1	6510.2	6176.6	5916.6	5662.6	5647.1	5596.1
7.5°	8125.9	7715.1	6989.8	6273.9	5687.5	5186.5	4680.8	4342.5	4076.6	3982.8	3927.0
10°	7480.1	7018.3	6112.5	5295.8	4772.2	4329.4	3973.3	3619.5	3299.0	3078.2	2978.5
12.5°	7029.0	6518.5	5520.1	4816.2	4441.0	4020.8	3586.3	3144.7	2775.5	2509.6	2346.9
15°	6854.4	6309.6	5321.9	4626.2	4163.2	3631.4	3075.8	2571.3	2161.8	1920.8	1774.7
17.5°	7062.2	6428.3	5306.4	4394.7	3747.7	3086.5	2472.8	1876.8	1491.0	1308.2	1214.4
20°	7589.3	6805.8	5300.5	4111.0	3253.9	2440.7	1675.0	1234.6	1000.7	898.7	854.7
22.5°	8334.8	7287.7	5348.0	3830.8	2739.9	1743.9	1156.3	907.0	787.1	732.5	707.5
25°	9294.0	7964.4	5482.1	3576.8	2256.7	1301.1	901.0	759.8	675.5	632.7	614.9
27.5°	10316.1	8743.2	5691.1	3356.0	1863.8	1037.5	771.6	650.5	590.0	560.3	543.7
30°	11159.0	9645.4	5902.4	3110.3	1578.9	904.6	706.3	593.6	523.5	504.5	489.1
32.5°	11896.2	10328.0	6052.0	2888.3	1392.5	803.7	638.7	530.6	483.2	446.4	429.7
35°	12659.5	10896.6	6047.2	2732.8	1264.3	727.7	581.7	474.8	417.9	375.1	362.1
37.5°	13485.7	11538.8	5943.9	2599.8	1208.5	667.2	549.6	445.2	388.2	345.5	328.8
40°	14453.2	12213.1	5838.3	2475.2	1193.1	618.5	527.1	421.4	360.9	319.3	302.7
42.5°	15395.8	12820.9	5745.7	2382.6	1126.6	617.3	506.9	403.6	339.5	299.2	280.2
45°	16149.6	13387.2	5727.9	2326.8	1056.5	638.7	496.2	391.8	322.9	282.5	264.7
47.5°	16776.4	14002.1	5841.8	2287.6	990.1	582.9	522.3	383.4	307.5	268.3	248.1
50°	17521.9	14757.1	6110.1	2223.5	920.0	524.7	598.3	385.8	294.4	254.0	232.7
52.5°	18561.8	15801.8	6504.2	2115.5	823.9	471.3	588.8	388.2	280.2	238.6	217.2
55°	19727.6	17106.4	6928.0	1936.2	689.7	401.2	504.5	371.6	252.9	222.0	201.8
57.5°	20952.7	18290.0	7179.7	1722.5	548.5	346.6	403.6	338.3	223.2	199.4	186.4
60°	21145.0	18739.9	7064.6	1460.2	435.7	301.5	299.2	344.3	199.4	175.7	166.2
62.5°	20666.6	18174.8	6507.8	1226.3	364.4	264.7	245.7	300.3	180.4	156.7	147.2
65°	19746.6	16647.0	5605.6	1105.2	338.3	226.7	204.2	211.3	157.9	136.5	128.2
67.5°	18466.9	14607.5	4602.5	1036.4	334.8	194.7	174.5	160.3	136.5	118.7	111.6
70°	15850.5	12169.2	3671.8	998.4	325.3	163.8	147.2	130.6	114.0	100.9	95.0
72.5°	11665.9	8623.3	2856.2	956.8	327.6	130.6	128.2	108.0	91.4	78.4	76.0
75°	6740.5	4926.6	1873.3	775.2	312.2	100.9	106.8	76.0	64.1	54.6	54.6
77.5°	3592.2	3004.6	713.5	322.9	114.0	64.1	60.5	45.1	40.4	33.2	32.1
80°	1565.8	1322.5	214.9	90.2	62.9	34.4	22.6	20.2	17.8	14.2	13.1
82.5°	554.4	478.4	70.0	43.9	27.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	125.8	90.2	0.0	10.7	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°	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2
2.5°	7131.0	7104.9	6950.6	6956.5	6983.8	7023.0	6930.4	6973.2	7088.3	7198.7	7240.3
5°	5514.2	5520.1	5426.3	5484.5	5536.7	5572.4	5422.8	5425.1	5516.6	5641.2	5706.5
7.5°	3885.5	3876.0	3880.7	4019.6	4118.1	4046.9	4102.7	3909.2	3921.1	4010.1	3943.6
10°	2888.3	2757.7	2684.1	2788.6	2896.6	2857.4	2761.2	2698.3	2742.3	2840.8	2833.7
12.5°	2269.8	2082.2	1971.8	1897.0	1986.1	1912.5	1910.1	1855.5	1796.1	1806.8	1964.7
15°	1707.1	1570.6	1440.0	1320.1	1317.7	1292.8	1165.8	1023.3	1011.4	1018.6	1100.5
17.5°	1174.1	1127.8	1074.3	971.1	943.8	839.3	715.8	658.9	630.4	643.4	670.7
20°	825.1	807.2	813.2	757.4	718.2	618.5	546.1	523.5	518.8	531.8	544.9
22.5°	683.8	651.7	648.2	623.2	584.1	511.6	472.5	459.4	453.5	465.4	474.8
25°	598.3	566.3	553.2	537.8	496.2	446.4	422.6	410.7	404.8	411.9	417.9
27.5°	527.1	497.4	485.5	474.8	434.5	398.9	379.9	369.2	364.4	366.8	372.8
30°	473.7	447.5	432.1	419.1	384.6	359.7	343.1	332.4	327.6	327.6	333.6
32.5°	417.9	403.6	389.4	372.8	340.7	324.1	307.5	295.6	290.8	292.0	296.8
35°	347.8	343.1	346.6	331.2	303.9	289.7	273.0	260.0	256.4	257.6	262.4
37.5°	308.7	287.3	300.3	292.0	276.6	257.6	236.2	224.4	218.4	222.0	224.4
40°	283.7	257.6	248.1	256.4	254.0	223.2	204.2	192.3	187.6	188.8	191.1
42.5°	262.4	231.5	210.1	208.9	223.2	194.7	174.5	163.8	157.9	157.9	160.3
45°	242.2	208.9	182.8	162.6	187.6	165.0	146.0	136.5	129.4	129.4	130.6
47.5°	226.7	189.9	159.1	133.0	141.3	135.3	119.9	110.4	103.3	103.3	104.5
50°	212.5	170.9	137.7	111.6	105.7	111.6	97.3	86.7	81.9	80.7	83.1
52.5°	197.1	152.0	117.5	95.0	83.1	84.3	76.0	68.9	62.9	62.9	65.3
55°	181.6	136.5	102.1	80.7	68.9	62.9	60.5	55.8	51.0	51.0	53.4
57.5°	166.2	119.9	86.7	66.5	54.6	49.9	49.9	46.3	42.7	42.7	45.1
60°	152.0	103.3	71.2	54.6	42.7	41.5	42.7	39.2	36.8	36.8	39.2
62.5°	135.3	87.8	58.2	45.1	34.4	33.2	36.8	34.4	32.1	32.1	34.4
65°	115.2	74.8	46.3	34.4	26.1	26.1	30.9	28.5	26.1	26.1	28.5
67.5°	97.3	62.9	35.6	24.9	19.0	20.2	26.1	23.7	22.6	22.6	24.9
70°	80.7	48.7	24.9	15.4	10.7	15.4	20.2	20.2	20.2	20.2	22.6
72.5°	60.5	33.2	14.2	5.9	4.7	10.7	16.6	19.0	17.8	17.8	21.4
75°	39.2	19.0	4.7	0.0	0.0	5.9	13.1	15.4	15.4	14.2	17.8
77.5°	22.6	5.9	0.0	0.0	0.0	0.0	8.3	7.1	5.9	4.7	8.3
80°	5.9	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: P324081

CATALOG NUMBER: GAN-SA7B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2	8407.2
2.5°	7407.6	7547.7	7744.8	7953.7	8275.4	8530.7	8781.1	8996.0	9079.1	9113.5
5°	5863.2	6068.6	6357.0	6727.4	7307.9	7830.3	8359.7	8892.7	9124.2	9182.4
7.5°	4207.2	4469.5	4836.3	5300.5	5980.7	6657.4	7397.0	8179.3	8537.8	8628.0
10°	3113.8	3434.3	3854.6	4343.7	4993.0	5688.7	6494.7	7388.7	7798.2	7918.1
12.5°	2209.2	2642.5	3205.2	3800.0	4362.7	4983.5	5799.1	6784.4	7214.1	7343.5
15°	1297.5	1716.6	2382.6	3179.1	3899.7	4528.9	5357.5	6474.6	6948.2	7078.8
17.5°	744.3	953.3	1456.6	2344.6	3322.8	4194.1	5218.6	6551.7	7109.7	7230.8
20°	568.6	635.1	839.3	1510.0	2648.5	3865.3	5218.6	6988.6	7675.9	7854.0
22.5°	497.4	546.1	629.2	901.0	1949.3	3512.7	5279.1	7620.1	8518.8	8715.9
25°	441.6	485.5	556.8	677.8	1329.6	3093.6	5422.8	8395.3	9511.2	9766.5
27.5°	395.3	436.9	501.0	593.6	909.3	2587.9	5616.3	9304.7	10605.8	10809.9
30°	353.8	392.9	451.1	516.4	701.6	2014.5	5781.3	10161.8	11465.2	11684.8
32.5°	314.6	350.2	402.4	451.1	574.6	1489.8	5799.1	10840.8	12178.7	12397.1
35°	277.8	309.8	357.3	395.3	476.0	1176.4	5522.5	11429.6	12892.2	13180.6
37.5°	242.2	273.0	314.6	343.1	419.1	959.2	5099.9	12086.1	13807.4	14074.5
40°	208.9	236.2	279.0	298.0	396.5	737.2	4640.5	12774.6	14704.9	14949.4
42.5°	178.1	204.2	245.7	282.5	347.8	550.8	4144.2	13420.4	15512.1	15768.5
45°	148.4	175.7	217.2	299.2	288.5	411.9	3613.6	13849.0	16149.6	16428.6
47.5°	119.9	150.8	207.7	284.9	230.3	302.7	3193.4	14255.0	16632.8	16908.2
50°	96.2	127.0	233.9	254.0	188.8	231.5	3017.7	14618.2	16949.7	17214.5
52.5°	78.4	106.8	220.8	194.7	157.9	191.1	3112.6	15207.0	17243.0	17409.2
55°	65.3	84.3	133.0	135.3	134.1	162.6	3230.2	16052.3	18001.5	18079.9
57.5°	57.0	67.7	92.6	104.5	112.8	144.8	3232.5	17265.5	19175.6	19224.3
60°	48.7	59.4	77.2	84.3	97.3	129.4	3115.0	17689.3	19637.4	19798.8
62.5°	42.7	52.2	64.1	70.0	81.9	116.3	2839.6	17075.6	19003.5	19277.7
65°	38.0	47.5	53.4	59.4	72.4	104.5	2386.1	15848.1	17951.7	18237.8
67.5°	33.2	41.5	47.5	53.4	65.3	92.6	1756.9	14422.4	16744.4	16981.8
70°	29.7	36.8	42.7	47.5	57.0	78.4	1066.0	12238.0	15075.3	15173.8
72.5°	28.5	33.2	39.2	42.7	49.9	68.9	540.1	8993.6	12051.7	12211.9
75°	24.9	29.7	35.6	38.0	43.9	59.4	219.6	5907.1	8733.7	8991.3
77.5°	20.2	27.3	32.1	34.4	38.0	48.7	111.6	3775.0	6129.1	6295.3
80°	7.1	20.2	27.3	28.5	32.1	35.6	73.6	2066.8	3555.4	3626.7
82.5°	0.0	13.1	21.4	20.2	22.6	27.3	47.5	982.9	2346.9	2373.1
85°	0.0	5.9	16.6	13.1	9.5	19.0	16.6	214.9	1231.0	1282.1
87.5°	0.0	0.0	1.2	5.9	4.7	7.1	2.4	1.2	111.6	141.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)