

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: P324083

Luminaire Tested: **GAN-SA9B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324083
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-SA9B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 31675 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

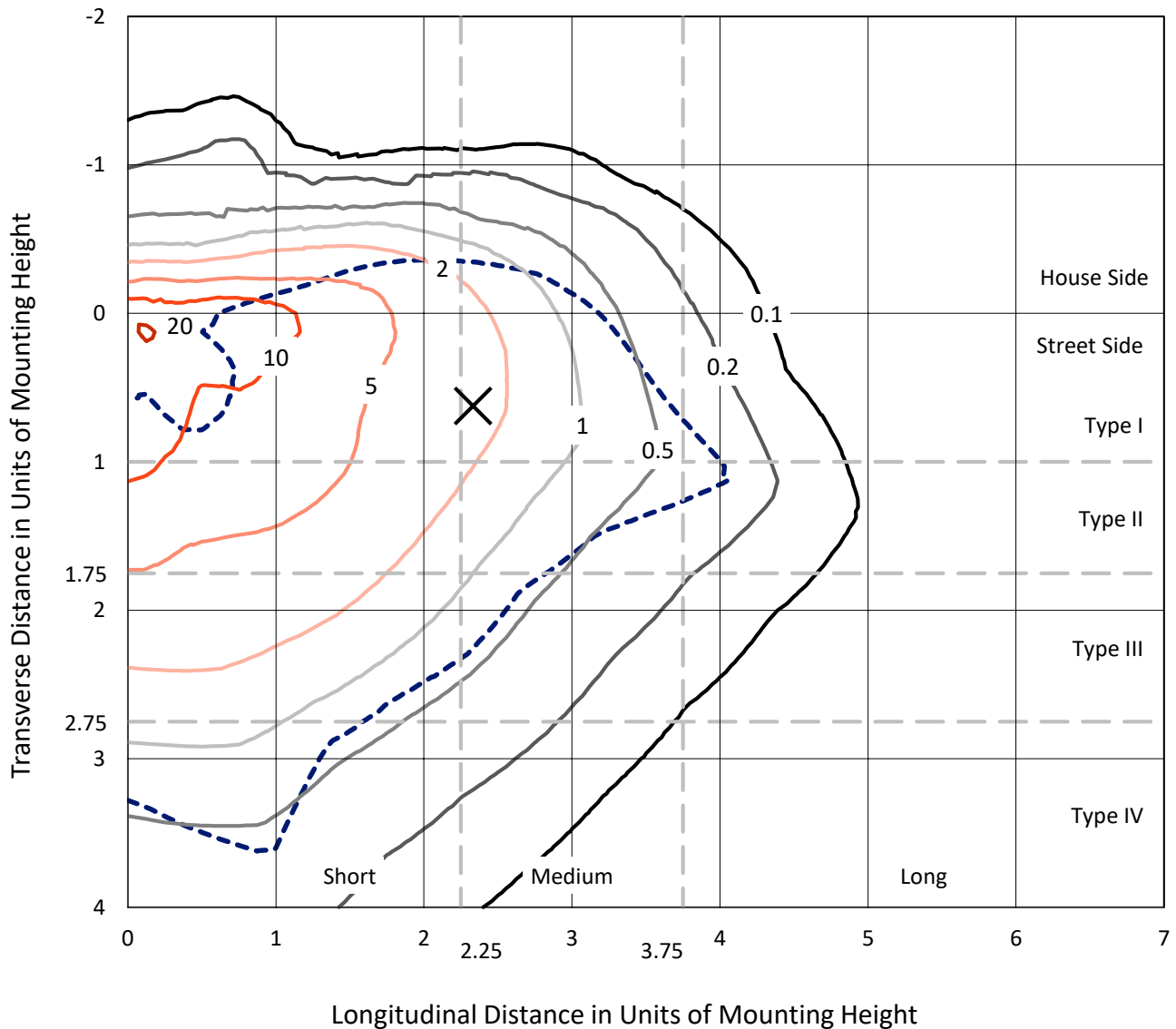
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

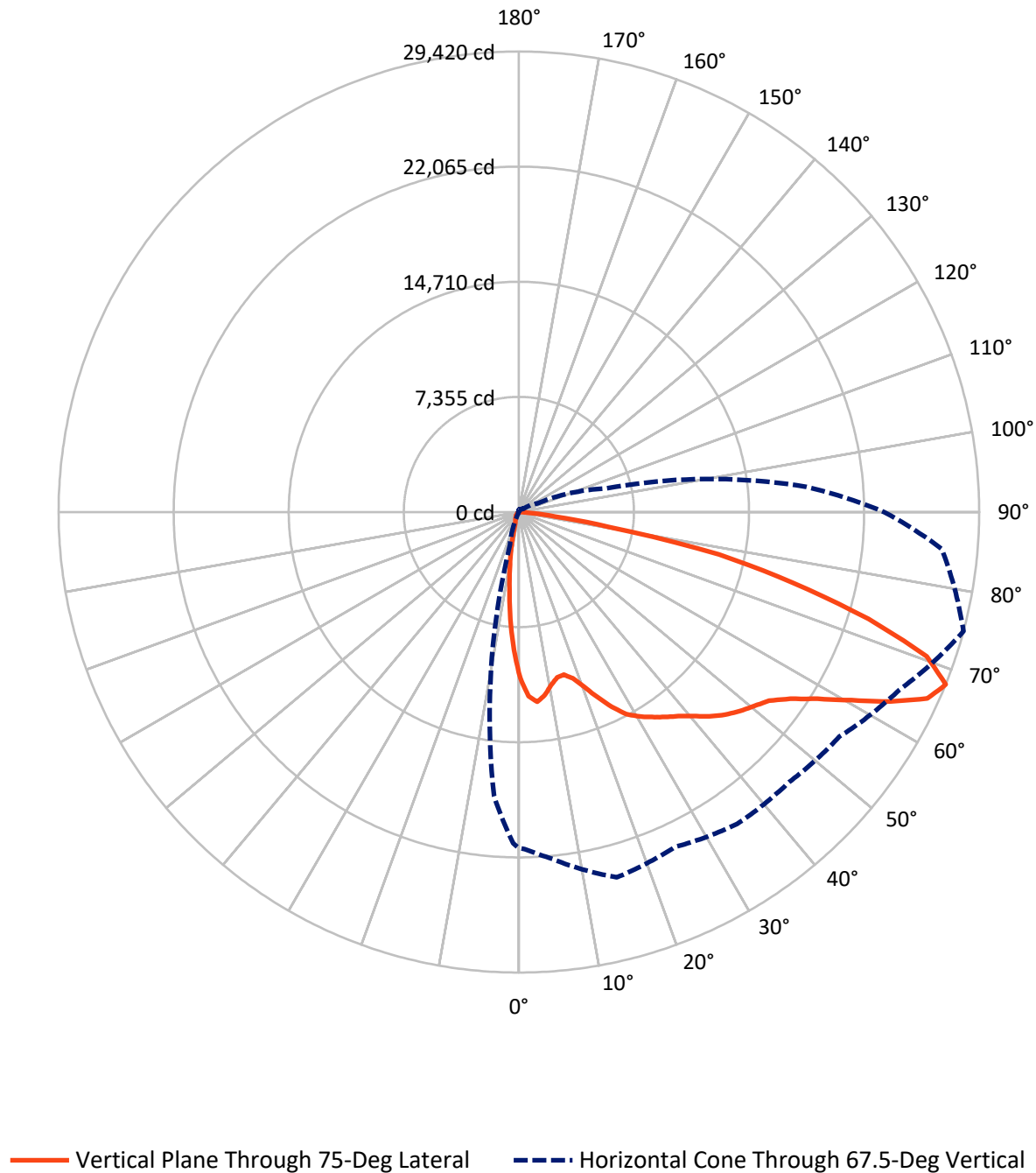
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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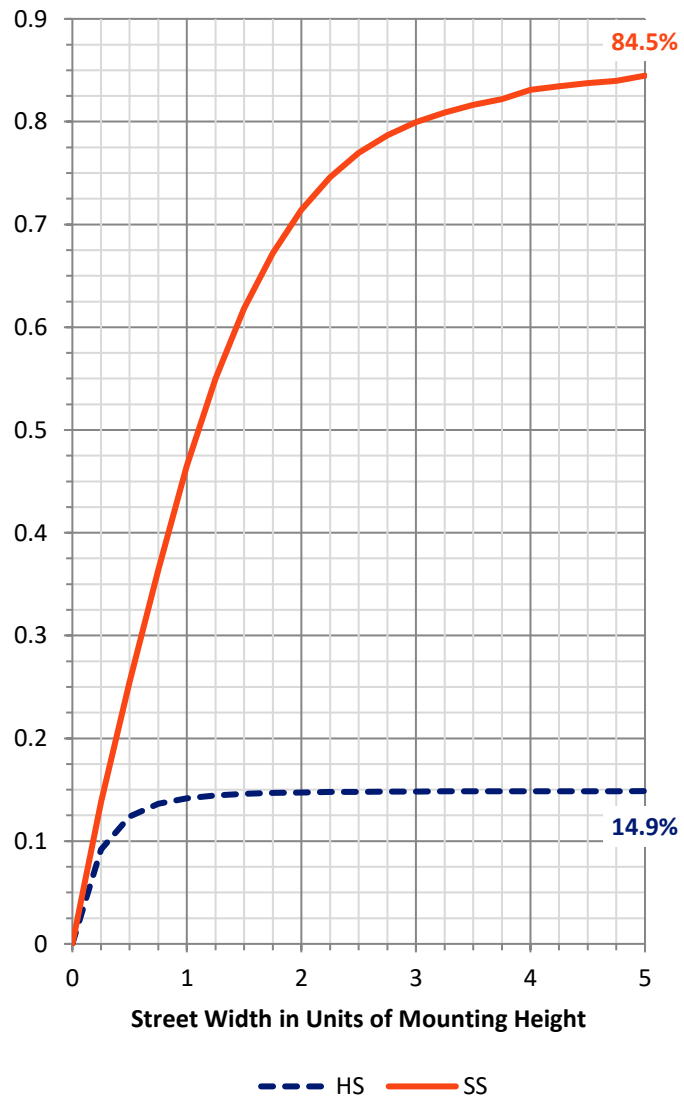
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4753.2	0.0	4753.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26921.8	0.0	26921.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	31675.0	0.0	31675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.1	2.5
10°-20°	1587.1	5.0
20°-30°	2245.4	7.1
30°-40°	3301.3	10.4
40°-50°	4745.1	15.0
50°-60°	6679.8	21.1
60°-70°	7801.4	24.6
70°-80°	3980.0	12.6
80°-90°	528.7	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°	31675.0	100.0
0°-180°	31675.0	100.0

Coefficient of Utilization



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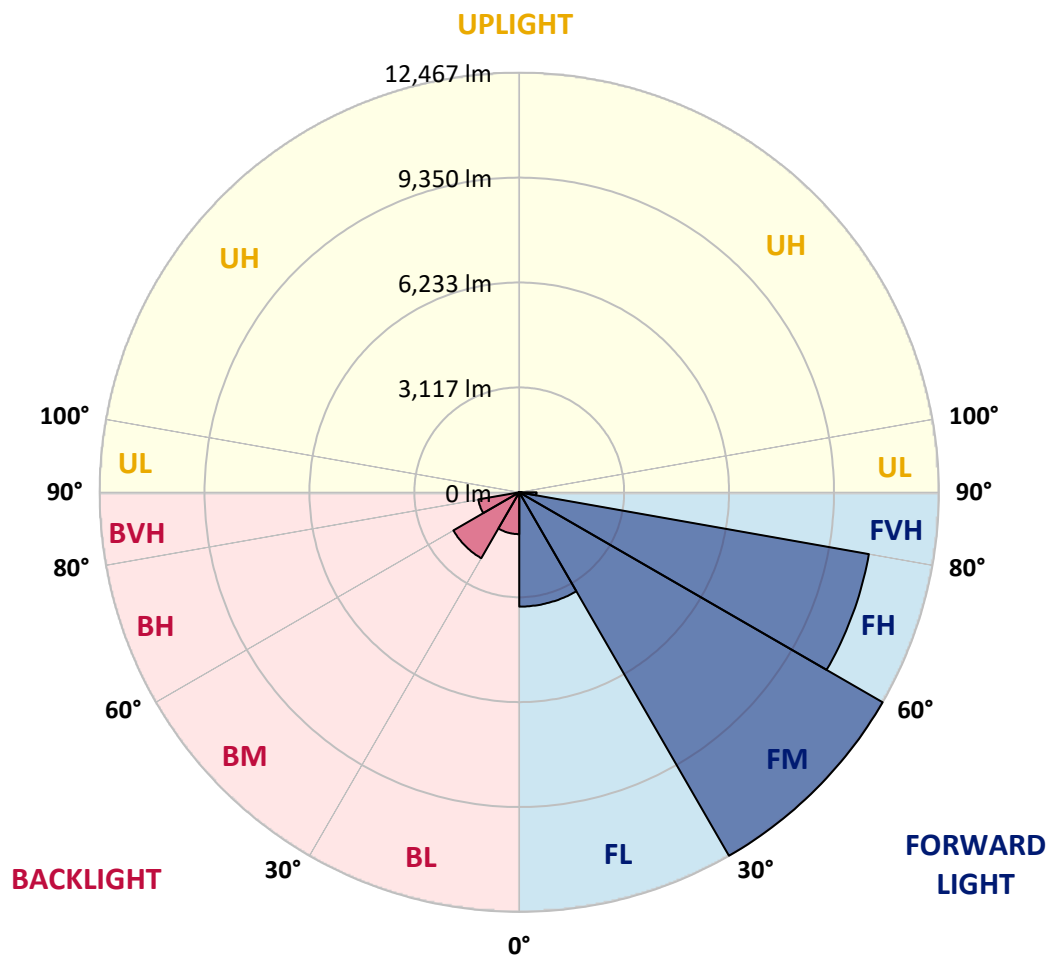
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3395.6	10.7			
FM	(30°-60°)	12466.7	39.4			
FH	(60°-80°)	10546.9	33.3			G4/12000
FVH	(80°-90°)	512.7	1.6			G4/750
BL	(0°-30°)	1243.0	3.9	B3/2500		
BM	(30°-60°)	2259.5	7.1	B2/2500		
BH	(60°-80°)	1234.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	16.0	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°	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4
2.5°	11519.2	11537.2	11630.2	11846.3	12081.9	12099.9	12258.9	12095.4	12039.9	11775.8	11502.7
5°	11606.2	11675.3	11994.9	12629.6	13180.2	13357.3	13483.3	13162.2	12824.6	12179.4	11490.7
7.5°	10905.5	11021.0	11523.7	12715.1	13699.4	14134.6	14217.1	13714.4	12887.6	11825.3	10790.0
10°	10008.2	10140.3	10746.5	12210.9	13562.9	14308.6	14422.6	13763.9	12575.5	11252.1	10032.2
12.5°	9282.0	9436.5	10056.2	11643.7	13093.2	13918.5	14143.6	13597.4	12305.5	10845.5	9514.6
15°	8947.4	9124.4	9775.6	11277.6	12572.5	13222.3	13408.3	13172.7	12155.4	10781.0	9394.5
17.5°	9139.4	9331.5	10003.7	11309.1	12083.4	12361.0	12511.0	12607.1	12155.4	11169.6	9745.6
20°	9927.2	10134.3	10845.5	11628.7	11678.3	11574.7	11735.3	12072.9	12296.5	11907.8	10588.9
22.5°	11016.5	11259.6	12062.4	12176.4	11480.2	11088.6	11109.6	11639.2	12553.0	12844.1	11759.3
25°	12344.5	12641.6	13457.8	12992.7	11562.7	10799.0	10791.5	11282.1	12803.6	13781.9	13063.2
27.5°	13663.4	13990.5	14707.7	13989.0	11903.3	10746.5	10731.5	11174.1	13048.2	14616.2	14487.2
30°	14769.3	15087.4	15705.6	14710.7	12271.0	10869.5	10797.5	11289.6	13193.7	15157.9	15525.5
32.5°	15669.5	15924.6	16424.3	15207.4	12664.1	11108.1	10952.0	11598.7	13441.3	15615.5	16479.8
35°	16659.9	16928.4	17128.0	15680.0	13105.2	11451.7	11228.1	12089.4	13822.4	16080.7	17525.6
37.5°	17789.7	18056.8	18032.8	16112.2	13664.9	12020.4	11877.8	12866.6	14415.1	16541.3	18693.0
40°	18895.6	19168.7	18973.6	16584.8	14322.1	12958.2	12853.1	14034.0	15208.9	17131.0	20061.5
42.5°	19930.9	20226.5	19809.4	17032.0	15105.4	14140.6	14320.6	15537.5	16202.2	17857.2	21240.8
45°	20765.2	21066.8	20510.1	17467.1	15930.6	15575.0	16116.7	17203.0	17396.6	18470.9	22037.6
47.5°	21371.4	21656.5	20996.3	17902.3	16987.0	17329.1	18272.9	18949.6	18475.4	19003.6	22603.3
50°	21758.5	21980.6	21138.8	18446.9	18373.4	19375.7	20519.1	20849.2	19491.3	19483.8	23290.5
52.5°	22004.6	22105.1	21243.8	19015.6	19819.9	21604.0	22718.8	22822.3	20537.1	20011.9	24216.3
55°	22852.4	22933.4	21988.1	19704.3	21015.8	23556.1	24708.5	24612.4	21721.0	21045.8	25308.6
57.5°	24298.8	24384.3	23526.1	20694.7	21983.6	24762.5	26150.4	26323.0	23108.9	22498.2	26479.0
60°	25025.1	25184.1	24878.0	21949.1	22921.4	25533.7	27133.2	27683.9	24843.5	24412.9	27613.4
62.5°	24366.3	24597.4	25041.6	23340.0	23853.2	25958.4	27439.3	28171.6	26620.1	26644.1	28312.6
65°	23051.9	23236.5	23989.7	24102.3	24393.4	25905.8	26683.1	27490.3	27707.9	28693.7	28275.1
67.5°	21464.4	21533.4	22172.6	24162.3	23610.1	24327.3	24411.4	25008.6	26848.1	29420.0	27139.2
70°	19179.2	19216.7	19774.9	22153.1	20289.5	20447.1	20322.5	20444.1	23081.9	27650.9	24271.8
72.5°	15435.5	15530.0	16323.8	18397.4	14781.3	14326.6	15304.9	15250.9	17776.2	23361.0	18026.8
75°	11364.7	11528.2	12727.1	14818.8	10374.3	9384.0	10098.3	10288.8	12637.1	18070.3	11273.1
77.5°	7957.1	8078.6	9240.0	10893.5	7508.4	6710.2	6452.1	6678.6	8341.2	13072.2	5679.3
80°	4584.0	4629.0	5370.2	6290.0	5059.6	5788.9	5244.2	5400.2	4998.1	5815.9	2442.8
82.5°	2999.5	3007.0	3296.6	3743.7	3151.0	3661.2	2709.9	3464.6	3074.5	2336.3	795.3
85°	1620.5	1629.5	1911.6	2657.4	1784.1	1008.3	592.7	1216.9	1901.1	535.7	217.6
87.5°	178.6	163.6	576.2	966.3	495.2	91.5	31.5	136.5	304.6	34.5	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°	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4
2.5°	11363.2	11238.6	10928.0	10599.4	10335.3	10087.7	9838.7	9534.1	9298.5	9250.5	9172.5
5°	11120.1	10725.5	10074.2	9420.0	8893.4	8228.6	7807.0	7478.4	7157.3	7137.8	7073.3
7.5°	10270.8	9751.6	8834.8	7930.1	7188.8	6555.6	5916.4	5488.8	5152.7	5034.1	4963.6
10°	9454.5	8870.9	7726.0	6693.7	6031.9	5472.3	5022.1	4575.0	4169.8	3890.8	3764.7
12.5°	8884.4	8239.2	6977.2	6087.5	5613.3	5082.1	4533.0	3974.8	3508.1	3172.0	2966.5
15°	8663.8	7975.1	6726.7	5847.4	5262.2	4590.0	3887.8	3250.0	2732.4	2427.8	2243.2
17.5°	8926.4	8125.1	6707.2	5554.8	4737.0	3901.3	3125.5	2372.3	1884.6	1653.5	1535.0
20°	9592.6	8602.3	6699.7	5196.2	4112.8	3085.0	2117.2	1560.5	1264.9	1135.9	1080.3
22.5°	10534.9	9211.5	6759.7	4842.1	3463.1	2204.2	1461.5	1146.4	994.8	925.8	894.3
25°	11747.3	10066.7	6929.2	4521.0	2852.4	1644.5	1138.9	960.3	853.8	799.8	777.3
27.5°	13039.2	11051.1	7193.3	4241.9	2355.8	1311.4	975.3	822.3	745.7	708.2	687.2
30°	14104.5	12191.4	7460.4	3931.3	1995.6	1143.4	892.8	750.2	661.7	637.7	618.2
32.5°	15036.3	13054.2	7649.5	3650.7	1760.1	1015.8	807.3	670.7	610.7	564.2	543.2
35°	16001.2	13772.9	7643.5	3454.1	1598.0	919.8	735.2	600.2	528.2	474.2	457.6
37.5°	17045.5	14584.7	7512.9	3286.1	1527.5	843.3	694.7	562.7	490.7	436.6	415.6
40°	18268.4	15437.0	7379.4	3128.5	1508.0	781.8	666.2	532.7	456.1	403.6	382.6
42.5°	19459.8	16205.2	7262.3	3011.5	1424.0	780.3	640.7	510.2	429.1	378.1	354.1
45°	20412.6	16920.9	7239.8	2940.9	1335.4	807.3	627.2	495.2	408.1	357.1	334.6
47.5°	21204.8	17698.2	7383.9	2891.4	1251.4	736.7	660.2	484.7	388.6	339.1	313.6
50°	22147.1	18652.5	7723.0	2810.4	1162.9	663.2	756.2	487.7	372.1	321.1	294.1
52.5°	23461.6	19972.9	8221.1	2673.9	1041.3	595.7	744.2	490.7	354.1	301.6	274.6
55°	24935.0	21622.0	8756.8	2447.3	871.8	507.2	637.7	469.7	319.6	280.6	255.1
57.5°	26483.5	23117.9	9074.9	2177.2	693.2	438.1	510.2	427.6	282.1	252.1	235.6
60°	26726.6	23686.6	8929.4	1845.6	550.7	381.1	378.1	435.1	252.1	222.1	210.1
62.5°	26121.9	22972.4	8225.6	1550.0	460.6	334.6	310.6	379.6	228.1	198.1	186.1
65°	24959.0	21041.3	7085.3	1396.9	427.6	286.6	258.1	267.1	199.6	172.6	162.1
67.5°	23341.5	18463.4	5817.4	1309.9	423.1	246.1	220.6	202.6	172.6	150.0	141.0
70°	20034.4	15381.5	4641.0	1261.9	411.1	207.1	186.1	165.1	144.0	127.5	120.0
72.5°	14745.2	10899.5	3610.2	1209.4	414.1	165.1	162.1	136.5	115.5	99.0	96.0
75°	8519.7	6227.0	2367.8	979.8	394.6	127.5	135.0	96.0	81.0	69.0	69.0
77.5°	4540.5	3797.7	901.8	408.1	144.0	81.0	76.5	57.0	51.0	42.0	40.5
80°	1979.1	1671.5	271.6	114.0	79.5	43.5	28.5	25.5	22.5	18.0	16.5
82.5°	700.7	604.7	88.5	55.5	34.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	159.1	114.0	0.0	13.5	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°	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4
2.5°	9013.4	8980.4	8785.3	8792.8	8827.3	8876.9	8759.8	8813.8	8959.4	9098.9	9151.4
5°	6969.7	6977.2	6858.7	6932.2	6998.3	7043.3	6854.2	6857.2	6972.7	7130.3	7212.8
7.5°	4911.1	4899.1	4905.1	5080.6	5205.2	5115.1	5185.7	4941.1	4956.1	5068.6	4984.6
10°	3650.7	3485.6	3392.6	3524.6	3661.2	3611.7	3490.1	3410.6	3466.1	3590.7	3581.7
12.5°	2868.9	2631.8	2492.3	2397.8	2510.3	2417.3	2414.3	2345.3	2270.2	2283.7	2483.3
15°	2157.7	1985.1	1820.1	1668.5	1665.5	1634.0	1473.5	1293.4	1278.4	1287.4	1390.9
17.5°	1484.0	1425.5	1357.9	1227.4	1192.9	1060.8	904.8	832.8	796.8	813.3	847.8
20°	1042.8	1020.3	1027.8	957.3	907.8	781.8	690.2	661.7	655.7	672.2	688.7
22.5°	864.3	823.8	819.3	787.8	738.2	646.7	597.2	580.7	573.2	588.2	600.2
25°	756.2	715.7	699.2	679.7	627.2	564.2	534.2	519.2	511.7	520.7	528.2
27.5°	666.2	628.7	613.7	600.2	549.2	504.2	480.2	466.7	460.6	463.6	471.2
30°	598.7	565.7	546.2	529.7	486.2	454.6	433.6	420.1	414.1	414.1	421.6
32.5°	528.2	510.2	492.2	471.2	430.6	409.6	388.6	373.6	367.6	369.1	375.1
35°	439.6	433.6	438.1	418.6	384.1	366.1	345.1	328.6	324.1	325.6	331.6
37.5°	390.1	363.1	379.6	369.1	349.6	325.6	298.6	283.6	276.1	280.6	283.6
40°	358.6	325.6	313.6	324.1	321.1	282.1	258.1	243.1	237.1	238.6	241.6
42.5°	331.6	292.6	265.6	264.1	282.1	246.1	220.6	207.1	199.6	199.6	202.6
45°	306.1	264.1	231.1	205.6	237.1	208.6	184.6	172.6	163.6	163.6	165.1
47.5°	286.6	240.1	201.1	168.1	178.6	171.1	151.5	139.5	130.5	130.5	132.0
50°	268.6	216.1	174.1	141.0	133.5	141.0	123.0	109.5	103.5	102.0	105.0
52.5°	249.1	192.1	148.5	120.0	105.0	106.5	96.0	87.0	79.5	79.5	82.5
55°	229.6	172.6	129.0	102.0	87.0	79.5	76.5	70.5	64.5	64.5	67.5
57.5°	210.1	151.5	109.5	84.0	69.0	63.0	63.0	58.5	54.0	54.0	57.0
60°	192.1	130.5	90.0	69.0	54.0	52.5	54.0	49.5	46.5	46.5	49.5
62.5°	171.1	111.0	73.5	57.0	43.5	42.0	46.5	43.5	40.5	40.5	43.5
65°	145.5	94.5	58.5	43.5	33.0	33.0	39.0	36.0	33.0	33.0	36.0
67.5°	123.0	79.5	45.0	31.5	24.0	25.5	33.0	30.0	28.5	28.5	31.5
70°	102.0	61.5	31.5	19.5	13.5	19.5	25.5	25.5	25.5	25.5	28.5
72.5°	76.5	42.0	18.0	7.5	6.0	13.5	21.0	24.0	22.5	22.5	27.0
75°	49.5	24.0	6.0	0.0	0.0	7.5	16.5	19.5	19.5	18.0	22.5
77.5°	28.5	7.5	0.0	0.0	0.0	0.0	10.5	9.0	7.5	6.0	10.5
80°	7.5	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: P324083

CATALOG NUMBER: GAN-SA9B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4	10626.4
2.5°	9363.0	9540.1	9789.2	10053.2	10459.9	10782.5	11099.1	11370.7	11475.7	11519.2
5°	7410.9	7670.5	8035.1	8503.2	9237.0	9897.2	10566.4	11240.1	11532.7	11606.2
7.5°	5317.7	5649.3	6113.0	6699.7	7559.4	8414.7	9349.5	10338.3	10791.5	10905.5
10°	3935.8	4340.9	4872.1	5490.3	6311.0	7190.3	8209.1	9339.0	9856.7	10008.2
12.5°	2792.4	3340.1	4051.3	4803.0	5514.3	6299.0	7329.9	8575.3	9118.4	9282.0
15°	1640.0	2169.7	3011.5	4018.3	4929.1	5724.3	6771.7	8183.6	8782.3	8947.4
17.5°	940.8	1204.9	1841.1	2963.5	4199.9	5301.2	6596.1	8281.2	8986.4	9139.4
20°	718.7	802.8	1060.8	1908.6	3347.6	4885.6	6596.1	8833.3	9702.1	9927.2
22.5°	628.7	690.2	795.3	1138.9	2463.8	4439.9	6672.6	9631.6	10767.5	11016.5
25°	558.2	613.7	703.7	856.8	1680.5	3910.3	6854.2	10611.4	12021.9	12344.5
27.5°	499.7	552.2	633.2	750.2	1149.4	3271.1	7098.8	11760.8	13405.3	13663.4
30°	447.1	496.7	570.2	652.7	886.8	2546.3	7307.4	12844.1	14491.7	14769.3
32.5°	397.6	442.6	508.7	570.2	726.2	1883.1	7329.9	13702.4	15393.5	15669.5
35°	351.1	391.6	451.6	499.7	601.7	1487.0	6980.2	14446.7	16295.2	16659.9
37.5°	306.1	345.1	397.6	433.6	529.7	1212.4	6446.1	15276.4	17452.1	17789.7
40°	264.1	298.6	352.6	376.6	501.2	931.8	5865.4	16146.7	18586.5	18895.6
42.5°	225.1	258.1	310.6	357.1	439.6	696.2	5238.2	16963.0	19606.8	19930.9
45°	187.6	222.1	274.6	378.1	364.6	520.7	4567.5	17504.6	20412.6	20765.2
47.5°	151.5	190.6	262.6	360.1	291.1	382.6	4036.3	18017.8	21023.3	21371.4
50°	121.5	160.6	295.6	321.1	238.6	292.6	3814.2	18476.9	21423.9	21758.5
52.5°	99.0	135.0	279.1	246.1	199.6	241.6	3934.3	19221.2	21794.5	22004.6
55°	82.5	106.5	168.1	171.1	169.6	205.6	4082.8	20289.5	22753.3	22852.4
57.5°	72.0	85.5	117.0	132.0	142.5	183.1	4085.8	21823.0	24237.3	24298.8
60°	61.5	75.0	97.5	106.5	123.0	163.6	3937.3	22358.7	24821.0	25025.1
62.5°	54.0	66.0	81.0	88.5	103.5	147.0	3589.2	21582.9	24019.7	24366.3
65°	48.0	60.0	67.5	75.0	91.5	132.0	3016.0	20031.4	22690.3	23051.9
67.5°	42.0	52.5	60.0	67.5	82.5	117.0	2220.7	18229.4	21164.3	21464.4
70°	37.5	46.5	54.0	60.0	72.0	99.0	1347.4	15468.5	19054.6	19179.2
72.5°	36.0	42.0	49.5	54.0	63.0	87.0	682.7	11367.7	15232.9	15435.5
75°	31.5	37.5	45.0	48.0	55.5	75.0	277.6	7466.4	11039.1	11364.7
77.5°	25.5	34.5	40.5	43.5	48.0	61.5	141.0	4771.5	7747.0	7957.1
80°	9.0	25.5	34.5	36.0	40.5	45.0	93.0	2612.3	4493.9	4584.0
82.5°	0.0	16.5	27.0	25.5	28.5	34.5	60.0	1242.4	2966.5	2999.5
85°	0.0	7.5	21.0	16.5	12.0	24.0	21.0	271.6	1556.0	1620.5
87.5°	0.0	0.0	1.5	7.5	6.0	9.0	3.0	1.5	141.0	178.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)