

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: P324084

Luminaire Tested: **GAN-SA0B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324084
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-SA0B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 35067 lumens
Efficiency: N/A
Efficacy: 83.7 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): 419
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



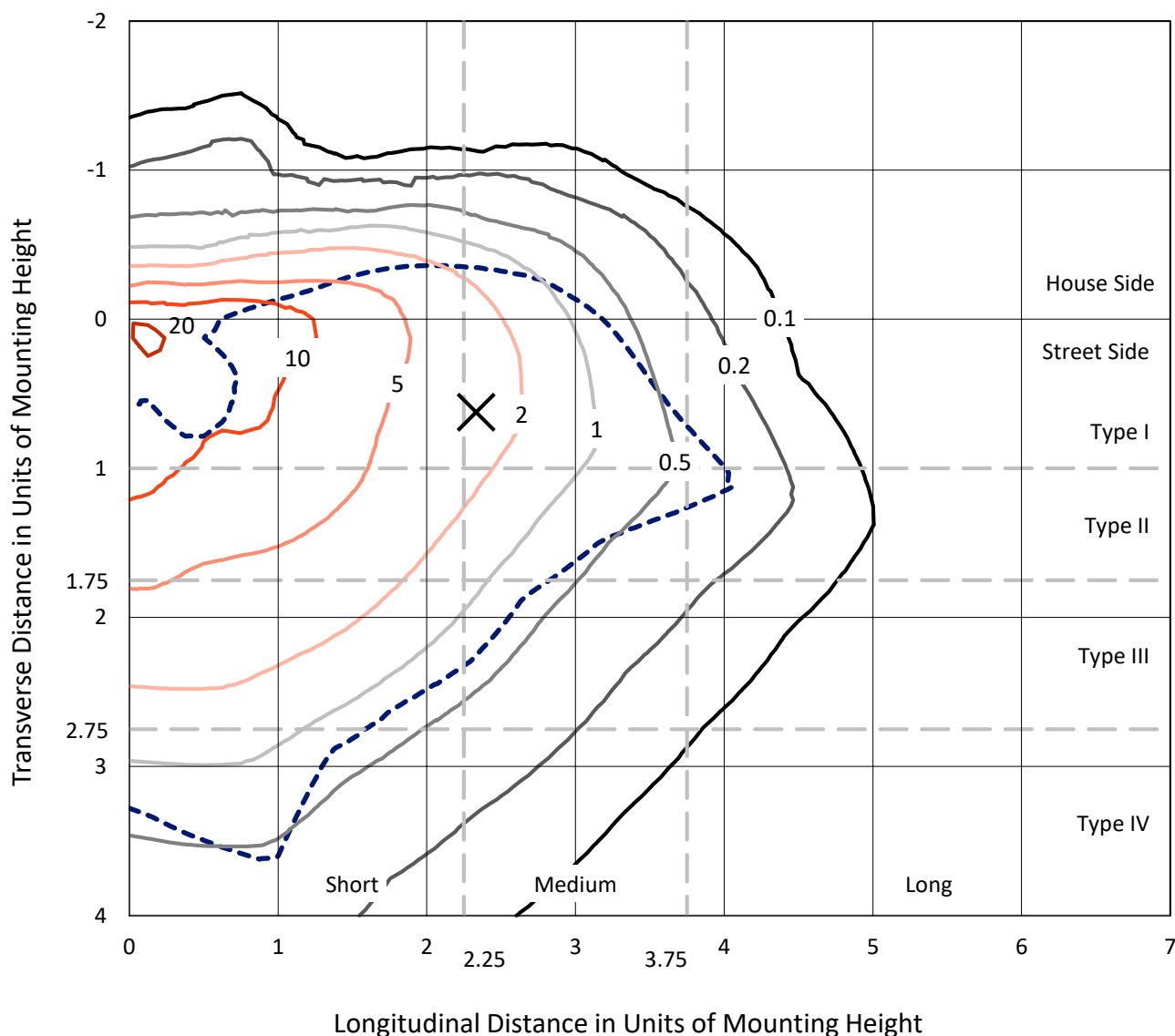
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

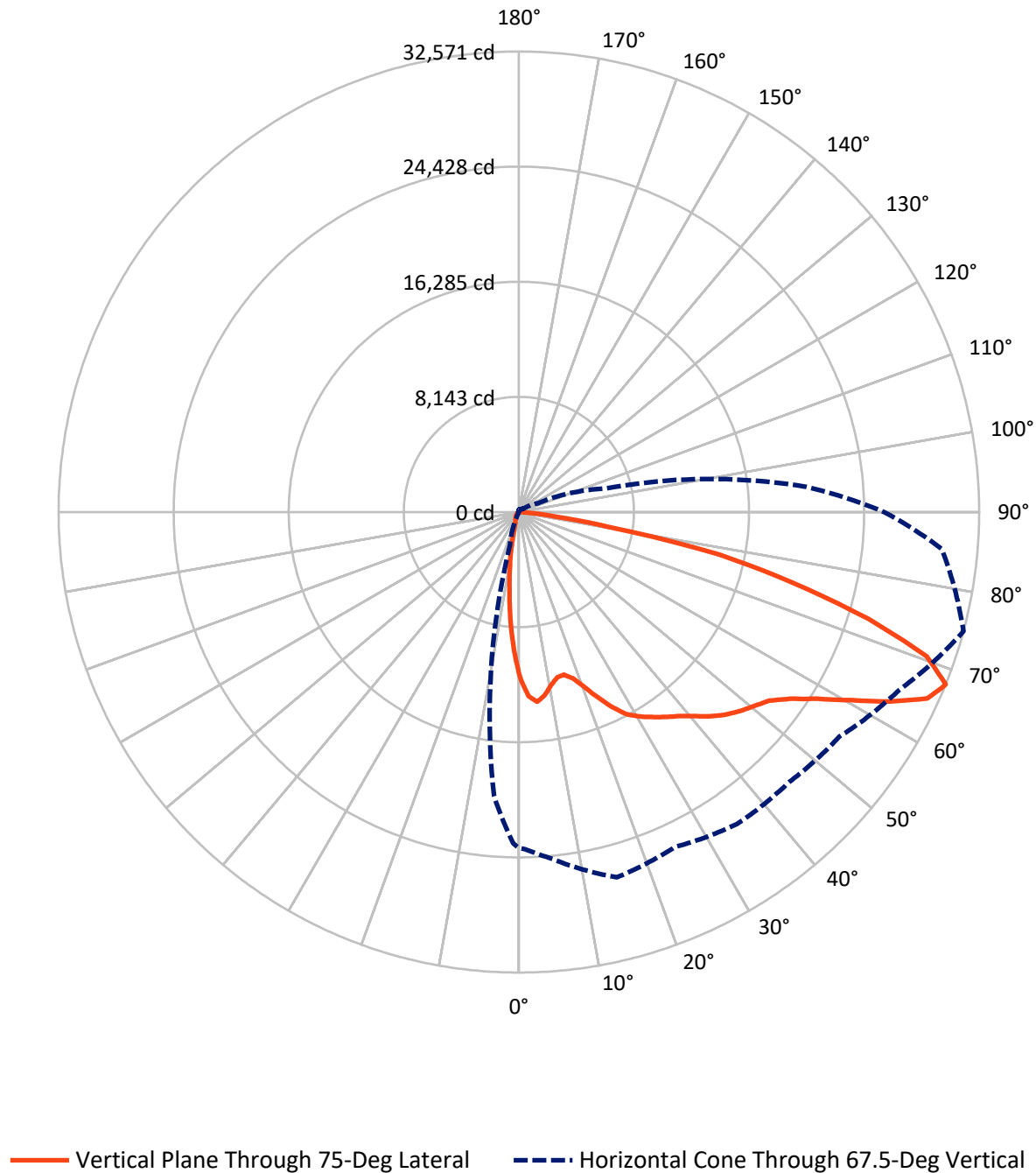
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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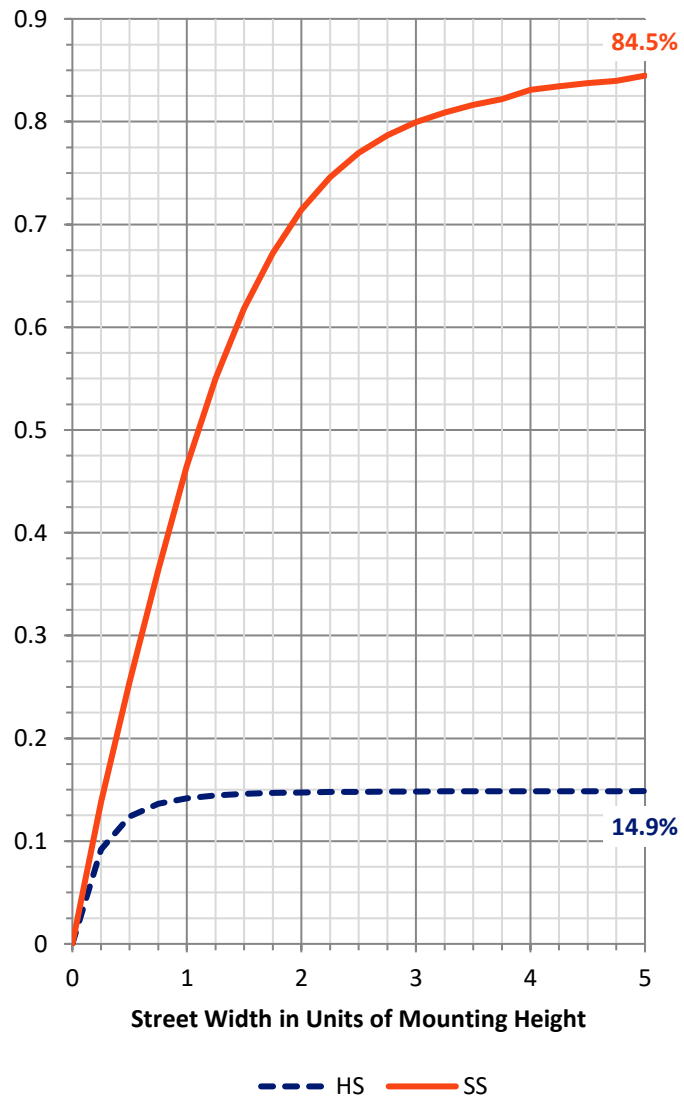
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5262.2	0.0	5262.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	29804.8	0.0	29804.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	35067.0	0.0	35067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.4	2.5
10°-20°	1757.1	5.0
20°-30°	2485.8	7.1
30°-40°	3654.8	10.4
40°-50°	5253.2	15.0
50°-60°	7395.2	21.1
60°-70°	8636.9	24.6
70°-80°	4406.2	12.6
80°-90°	585.3	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°	35067.0	100.0
0°-180°	35067.0	100.0

Coefficient of Utilization



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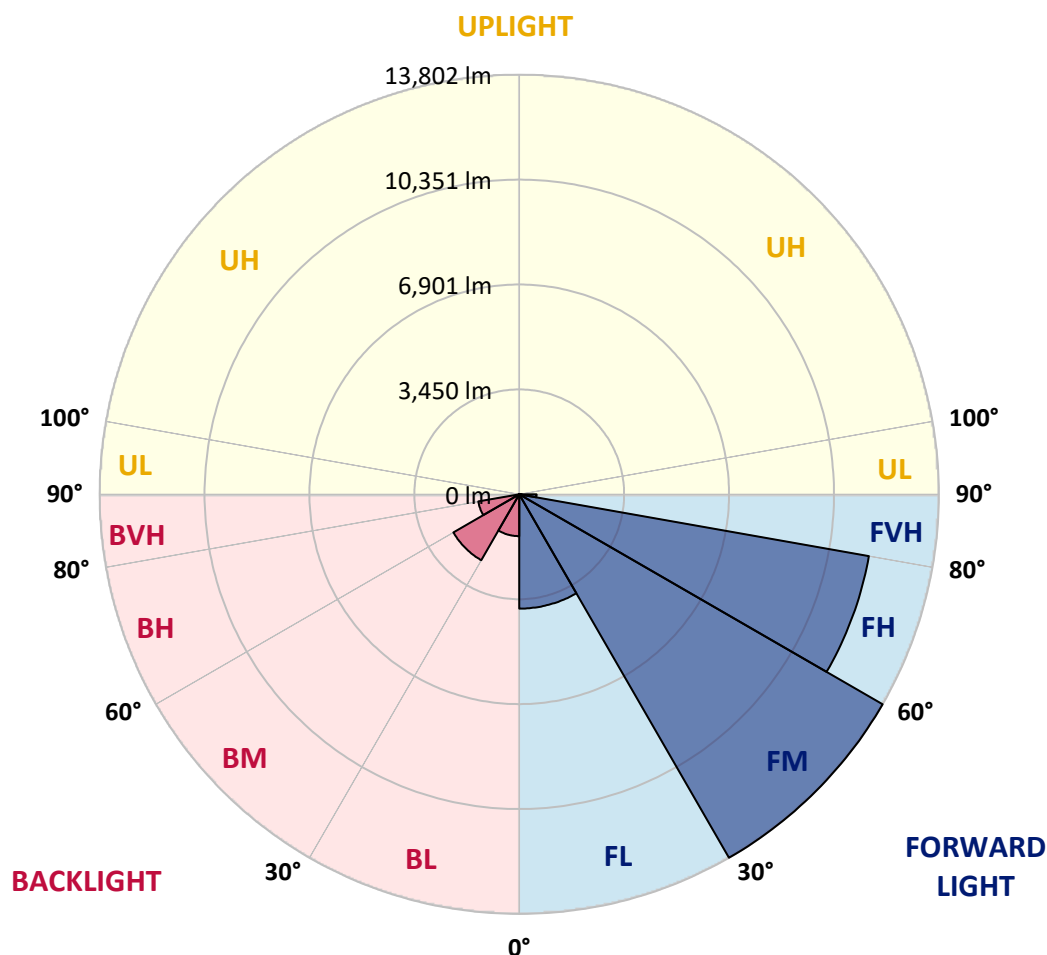
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3759.2	10.7			
FM	(30°-60°)	13801.8	39.4			
FH	(60°-80°)	11676.3	33.3			G4/12000
FVH	(80°-90°)	567.6	1.6			G4/750
BL	(0°-30°)	1376.1	3.9	B3/2500		
BM	(30°-60°)	2501.5	7.1	B3/5000		
BH	(60°-80°)	1366.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	17.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4
2.5°	12752.8	12772.7	12875.7	13114.9	13375.7	13395.6	13571.7	13390.7	13329.2	13036.8	12734.5
5°	12849.1	12925.5	13279.4	13982.0	14591.7	14787.7	14927.2	14571.7	14198.0	13483.7	12721.2
7.5°	12073.4	12201.3	12757.8	14076.7	15166.4	15648.2	15739.5	15183.1	14267.8	13091.7	11945.4
10°	11080.0	11226.2	11897.3	13518.6	15015.3	15840.9	15967.1	15237.9	13922.2	12457.1	11106.6
12.5°	10276.0	10447.1	11133.1	12890.6	14495.3	15409.0	15658.2	15053.5	13623.2	12006.9	10533.5
15°	9905.5	10101.6	10822.5	12485.3	13918.9	14638.2	14844.2	14583.4	13457.1	11935.5	10400.6
17.5°	10118.2	10330.8	11075.0	12520.2	13377.4	13684.7	13850.8	13957.1	13457.1	12365.7	10789.3
20°	10990.3	11219.5	12006.9	12874.0	12928.9	12814.2	12992.0	13365.7	13613.3	13183.0	11722.8
22.5°	12196.3	12465.4	13354.1	13480.4	12709.6	12276.0	12299.3	12885.7	13897.3	14219.6	13018.6
25°	13666.4	13995.3	14899.0	14384.0	12800.9	11955.4	11947.1	12490.3	14174.7	15257.8	14462.1
27.5°	15126.6	15488.7	16282.8	15487.1	13178.0	11897.3	11880.7	12370.7	14445.5	16181.4	16038.6
30°	16350.9	16703.0	17387.4	16286.1	13585.0	12033.5	11953.8	12498.6	14606.6	16781.1	17188.1
32.5°	17347.6	17630.0	18183.1	16835.9	14020.2	12297.6	12124.9	12840.8	14880.7	17287.8	18244.6
35°	18443.9	18741.3	18962.2	17359.2	14508.6	12678.0	12430.5	13384.0	15302.7	17802.7	19402.4
37.5°	19694.8	19990.5	19963.9	17837.6	15128.2	13307.6	13149.8	14244.5	15958.8	18312.7	20694.8
40°	20919.1	21221.4	21005.4	18360.9	15855.8	14345.8	14229.5	15536.9	16837.6	18965.5	22209.8
42.5°	22065.3	22392.5	21930.7	18855.9	16723.0	15654.8	15854.2	17201.4	17937.3	19769.5	23515.5
45°	22988.9	23322.8	22706.5	19337.6	17636.6	17242.9	17842.6	19045.3	19259.6	20449.0	24397.5
47.5°	23660.0	23975.6	23244.7	19819.4	18806.1	19184.8	20229.7	20978.9	20453.9	21038.7	25023.8
50°	24088.6	24334.4	23402.5	20422.4	20341.0	21450.6	22716.4	23081.9	21578.5	21570.2	25784.6
52.5°	24361.0	24472.3	23518.8	21052.0	21942.3	23917.5	25151.7	25266.3	22736.4	22155.0	26809.6
55°	25299.6	25389.3	24342.7	21814.4	23266.3	26078.6	27354.4	27248.1	24047.0	23299.5	28018.9
57.5°	26900.9	26995.6	26045.4	22910.8	24337.7	27414.2	28950.8	29141.8	25583.6	24907.5	29314.6
60°	27704.9	27881.0	27542.1	24299.5	25376.0	28268.1	30038.9	30648.5	27503.9	27027.2	30570.4
62.5°	26975.7	27231.5	27723.2	25839.4	26407.6	28738.2	30377.7	31188.4	29470.7	29497.3	31344.5
65°	25520.5	25724.8	26558.7	26683.3	27005.6	28680.0	29540.5	30434.2	30675.1	31766.5	31303.0
67.5°	23763.0	23839.4	24547.1	26749.8	26138.4	26932.5	27025.5	27686.7	29723.2	32570.5	30045.5
70°	21233.0	21274.6	21892.5	24525.5	22462.3	22636.7	22498.8	22633.4	25553.7	30612.0	26871.0
72.5°	17088.4	17193.1	18071.8	20367.6	16364.1	15860.8	16943.9	16884.1	19679.8	25862.7	19957.3
75°	12581.7	12762.7	14090.0	16405.7	11485.3	10388.9	11179.6	11390.6	13990.3	20005.4	12480.3
77.5°	8809.2	8943.7	10229.5	12060.1	8312.5	7428.7	7143.0	7393.9	9234.4	14472.1	6287.5
80°	5074.9	5124.7	5945.3	6963.6	5601.5	6408.8	5805.8	5978.5	5533.3	6438.7	2704.4
82.5°	3320.7	3329.0	3649.6	4144.6	3488.4	4053.2	3000.1	3835.6	3403.7	2586.4	880.4
85°	1794.1	1804.0	2116.3	2941.9	1975.1	1116.3	656.2	1347.2	2104.7	593.0	240.9
87.5°	197.7	181.1	637.9	1069.8	548.2	101.3	34.9	151.2	337.2	38.2	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°	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4
2.5°	12580.0	12442.1	12098.3	11734.5	11442.1	11168.0	10892.3	10555.0	10294.2	10241.1	10154.7
5°	12310.9	11874.0	11153.1	10428.8	9845.7	9109.8	8643.0	8279.3	7923.8	7902.2	7830.7
7.5°	11370.7	10795.9	9780.9	8779.3	7958.6	7257.6	6550.0	6076.5	5704.4	5573.2	5495.1
10°	10467.0	9820.8	8553.3	7410.5	6677.9	6058.3	5559.9	5064.9	4616.4	4307.4	4167.9
12.5°	9835.8	9121.5	7724.4	6739.4	6214.4	5626.4	5018.4	4400.4	3883.8	3511.7	3284.1
15°	9591.6	8829.1	7447.0	6473.6	5825.7	5081.5	4304.1	3598.1	3025.0	2687.8	2483.4
17.5°	9882.3	8995.2	7425.4	6149.6	5244.3	4319.0	3460.2	2626.3	2086.4	1830.6	1699.4
20°	10619.8	9523.5	7417.1	5752.6	4553.3	3415.4	2343.9	1727.6	1400.4	1257.5	1196.0
22.5°	11663.0	10197.9	7483.6	5360.6	3834.0	2440.3	1618.0	1269.1	1101.4	1024.9	990.1
25°	13005.3	11144.8	7671.3	5005.1	3157.9	1820.6	1260.8	1063.1	945.2	885.4	860.5
27.5°	14435.5	12234.5	7963.6	4696.1	2608.0	1451.9	1079.8	910.3	825.6	784.1	760.8
30°	15615.0	13497.0	8259.3	4352.3	2209.4	1265.8	988.4	830.6	732.6	706.0	684.4
32.5°	16646.5	14452.1	8468.6	4041.6	1948.5	1124.6	893.7	742.5	676.1	624.6	601.3
35°	17714.7	15247.8	8462.0	3824.0	1769.1	1018.3	814.0	664.5	584.7	524.9	506.7
37.5°	18870.8	16146.5	8317.5	3638.0	1691.1	933.6	769.1	622.9	543.2	483.4	460.1
40°	20224.7	17090.1	8169.6	3463.5	1669.5	865.5	737.6	589.7	505.0	446.9	423.6
42.5°	21543.7	17940.6	8040.0	3334.0	1576.4	863.8	709.3	564.8	475.1	418.6	392.0
45°	22598.5	18733.0	8015.1	3255.9	1478.4	893.7	694.4	548.2	451.8	395.4	370.4
47.5°	23475.6	19593.5	8174.6	3201.1	1385.4	815.6	730.9	536.6	430.2	375.4	347.2
50°	24518.8	20650.0	8550.0	3111.4	1287.4	734.2	837.2	539.9	412.0	355.5	325.6
52.5°	25974.0	22111.8	9101.5	2960.2	1152.8	659.5	823.9	543.2	392.0	333.9	304.0
55°	27605.3	23937.4	9694.6	2709.4	965.1	561.5	706.0	519.9	353.8	310.6	282.4
57.5°	29319.6	25593.6	10046.7	2410.4	767.5	485.1	564.8	473.4	312.3	279.1	260.8
60°	29588.7	26223.2	9885.6	2043.2	609.6	421.9	418.6	481.7	279.1	245.9	232.6
62.5°	28919.2	25432.5	9106.5	1716.0	510.0	370.4	343.9	420.3	252.5	219.3	206.0
65°	27631.8	23294.5	7844.0	1546.5	473.4	317.3	285.7	295.7	220.9	191.0	179.4
67.5°	25841.1	20440.6	6440.3	1450.2	468.4	272.4	244.2	224.3	191.0	166.1	156.1
70°	22179.9	17028.6	5138.0	1397.0	455.2	229.2	206.0	182.7	159.5	141.2	132.9
72.5°	16324.3	12066.7	3996.8	1338.9	458.5	182.7	179.4	151.2	127.9	109.6	106.3
75°	9432.1	6893.8	2621.3	1084.7	436.9	141.2	149.5	106.3	89.7	76.4	76.4
77.5°	5026.7	4204.4	998.4	451.8	159.5	89.7	84.7	63.1	56.5	46.5	44.9
80°	2191.1	1850.5	300.7	126.2	88.0	48.2	31.6	28.2	24.9	19.9	18.3
82.5°	775.8	669.4	98.0	61.5	38.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	176.1	126.2	0.0	15.0	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°	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4
2.5°	9978.6	9942.1	9726.1	9734.4	9772.6	9827.5	9697.9	9757.7	9918.8	10073.3	10131.5
5°	7716.1	7724.4	7593.2	7674.6	7747.7	7797.5	7588.2	7591.5	7719.4	7893.9	7985.2
7.5°	5437.0	5423.7	5430.4	5624.7	5762.6	5662.9	5741.0	5470.2	5486.8	5611.4	5518.4
10°	4041.6	3858.9	3755.9	3902.1	4053.2	3998.4	3863.9	3775.8	3837.3	3975.2	3965.2
12.5°	3176.1	2913.7	2759.2	2654.5	2779.1	2676.1	2672.8	2596.4	2513.3	2528.3	2749.2
15°	2388.8	2197.7	2015.0	1847.2	1843.9	1809.0	1631.3	1431.9	1415.3	1425.3	1539.9
17.5°	1642.9	1578.1	1503.4	1358.8	1320.6	1174.4	1001.7	921.9	882.1	900.4	938.6
20°	1154.5	1129.6	1137.9	1059.8	1005.0	865.5	764.1	732.6	725.9	744.2	762.5
22.5°	956.8	912.0	907.0	872.1	817.3	716.0	661.1	642.9	634.6	651.2	664.5
25°	837.2	792.4	774.1	752.5	694.4	624.6	591.4	574.8	566.5	576.4	584.7
27.5°	737.6	696.0	679.4	664.5	608.0	558.2	531.6	516.6	510.0	513.3	521.6
30°	662.8	626.3	604.7	586.4	538.2	503.3	480.1	465.1	458.5	458.5	466.8
32.5°	584.7	564.8	544.9	521.6	476.8	453.5	430.2	413.6	407.0	408.6	415.3
35°	486.7	480.1	485.1	463.5	425.3	405.3	382.1	363.8	358.8	360.5	367.1
37.5°	431.9	402.0	420.3	408.6	387.1	360.5	330.6	314.0	305.7	310.6	314.0
40°	397.0	360.5	347.2	358.8	355.5	312.3	285.7	269.1	262.5	264.1	267.4
42.5°	367.1	323.9	294.0	292.4	312.3	272.4	244.2	229.2	220.9	220.9	224.3
45°	338.9	292.4	255.8	227.6	262.5	230.9	204.3	191.0	181.1	181.1	182.7
47.5°	317.3	265.8	222.6	186.1	197.7	189.4	167.8	154.5	144.5	144.5	146.2
50°	297.3	239.2	192.7	156.1	147.8	156.1	136.2	121.3	114.6	113.0	116.3
52.5°	275.8	212.6	164.5	132.9	116.3	117.9	106.3	96.3	88.0	88.0	91.4
55°	254.2	191.0	142.9	113.0	96.3	88.0	84.7	78.1	71.4	71.4	74.8
57.5°	232.6	167.8	121.3	93.0	76.4	69.8	69.8	64.8	59.8	59.8	63.1
60°	212.6	144.5	99.7	76.4	59.8	58.1	59.8	54.8	51.5	51.5	54.8
62.5°	189.4	122.9	81.4	63.1	48.2	46.5	51.5	48.2	44.9	44.9	48.2
65°	161.1	104.7	64.8	48.2	36.5	36.5	43.2	39.9	36.5	36.5	39.9
67.5°	136.2	88.0	49.8	34.9	26.6	28.2	36.5	33.2	31.6	31.6	34.9
70°	113.0	68.1	34.9	21.6	15.0	21.6	28.2	28.2	28.2	28.2	31.6
72.5°	84.7	46.5	19.9	8.3	6.6	15.0	23.3	26.6	24.9	24.9	29.9
75°	54.8	26.6	6.6	0.0	0.0	8.3	18.3	21.6	21.6	19.9	24.9
77.5°	31.6	8.3	0.0	0.0	0.0	0.0	11.6	10.0	8.3	6.6	11.6
80°	8.3	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: P324084

CATALOG NUMBER: GAN-SA0B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4	11764.4
2.5°	10365.7	10561.7	10837.4	11129.8	11580.0	11937.1	12287.6	12588.3	12704.6	12752.8
5°	8204.5	8491.9	8895.5	9413.8	10226.1	10957.1	11697.9	12443.8	12767.7	12849.1
7.5°	5887.2	6254.3	6767.6	7417.1	8369.0	9315.8	10350.7	11445.4	11947.1	12073.4
10°	4357.2	4805.8	5393.8	6078.2	6986.9	7960.3	9088.2	10339.1	10912.2	11080.0
12.5°	3091.4	3697.8	4485.1	5317.4	6104.8	6973.6	8114.8	9493.6	10094.9	10276.0
15°	1815.7	2402.0	3334.0	4448.6	5456.9	6337.3	7496.8	9060.0	9722.8	9905.5
17.5°	1041.6	1333.9	2038.3	3280.8	4649.6	5868.9	7302.5	9168.0	9948.7	10118.2
20°	795.7	888.7	1174.4	2113.0	3706.1	5408.8	7302.5	9779.3	10741.1	10990.3
22.5°	696.0	764.1	880.4	1260.8	2727.6	4915.4	7387.2	10663.0	11920.5	12196.3
25°	618.0	679.4	779.1	948.5	1860.5	4329.0	7588.2	11747.8	13309.3	13666.4
27.5°	553.2	611.3	701.0	830.6	1272.5	3621.3	7859.0	13020.2	14840.9	15126.6
30°	495.0	549.8	631.2	722.6	981.7	2819.0	8089.9	14219.6	16043.5	16350.9
32.5°	440.2	490.0	563.1	631.2	804.0	2084.8	8114.8	15169.8	17041.9	17347.6
35°	388.7	433.6	500.0	553.2	666.1	1646.2	7727.7	15993.7	18040.3	18443.9
37.5°	338.9	382.1	440.2	480.1	586.4	1342.2	7136.4	16912.3	19321.0	19694.8
40°	292.4	330.6	390.4	417.0	554.8	1031.6	6493.5	17875.8	20576.9	20919.1
42.5°	249.2	285.7	343.9	395.4	486.7	770.8	5799.1	18779.5	21706.5	22065.3
45°	207.6	245.9	304.0	418.6	403.7	576.4	5056.6	19379.2	22598.5	22988.9
47.5°	167.8	211.0	290.7	398.7	322.3	423.6	4468.5	19947.3	23274.6	23660.0
50°	134.6	177.7	327.2	355.5	264.1	323.9	4222.7	20455.6	23718.1	24088.6
52.5°	109.6	149.5	309.0	272.4	220.9	267.4	4355.6	21279.5	24128.4	24361.0
55°	91.4	117.9	186.1	189.4	187.7	227.6	4520.0	22462.3	25189.9	25299.6
57.5°	79.7	94.7	129.6	146.2	157.8	202.7	4523.4	24160.0	26832.8	26900.9
60°	68.1	83.1	108.0	117.9	136.2	181.1	4358.9	24753.0	27479.0	27704.9
62.5°	59.8	73.1	89.7	98.0	114.6	162.8	3973.5	23894.2	26591.9	26975.7
65°	53.2	66.4	74.8	83.1	101.3	146.2	3338.9	22176.6	25120.2	25520.5
67.5°	46.5	58.1	66.4	74.8	91.4	129.6	2458.5	20181.5	23430.7	23763.0
70°	41.5	51.5	59.8	66.4	79.7	109.6	1491.7	17125.0	21095.1	21233.0
72.5°	39.9	46.5	54.8	59.8	69.8	96.3	755.8	12585.0	16864.2	17088.4
75°	34.9	41.5	49.8	53.2	61.5	83.1	307.3	8266.0	12221.2	12581.7
77.5°	28.2	38.2	44.9	48.2	53.2	68.1	156.1	5282.5	8576.6	8809.2
80°	10.0	28.2	38.2	39.9	44.9	49.8	103.0	2892.1	4975.2	5074.9
82.5°	0.0	18.3	29.9	28.2	31.6	38.2	66.4	1375.4	3284.1	3320.7
85°	0.0	8.3	23.3	18.3	13.3	26.6	23.3	300.7	1722.6	1794.1
87.5°	0.0	0.0	1.7	8.3	6.6	10.0	3.3	1.7	156.1	197.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)