

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: P324109

Luminaire Tested: **GAN-SA5A-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324109
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-SA5A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 15725 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

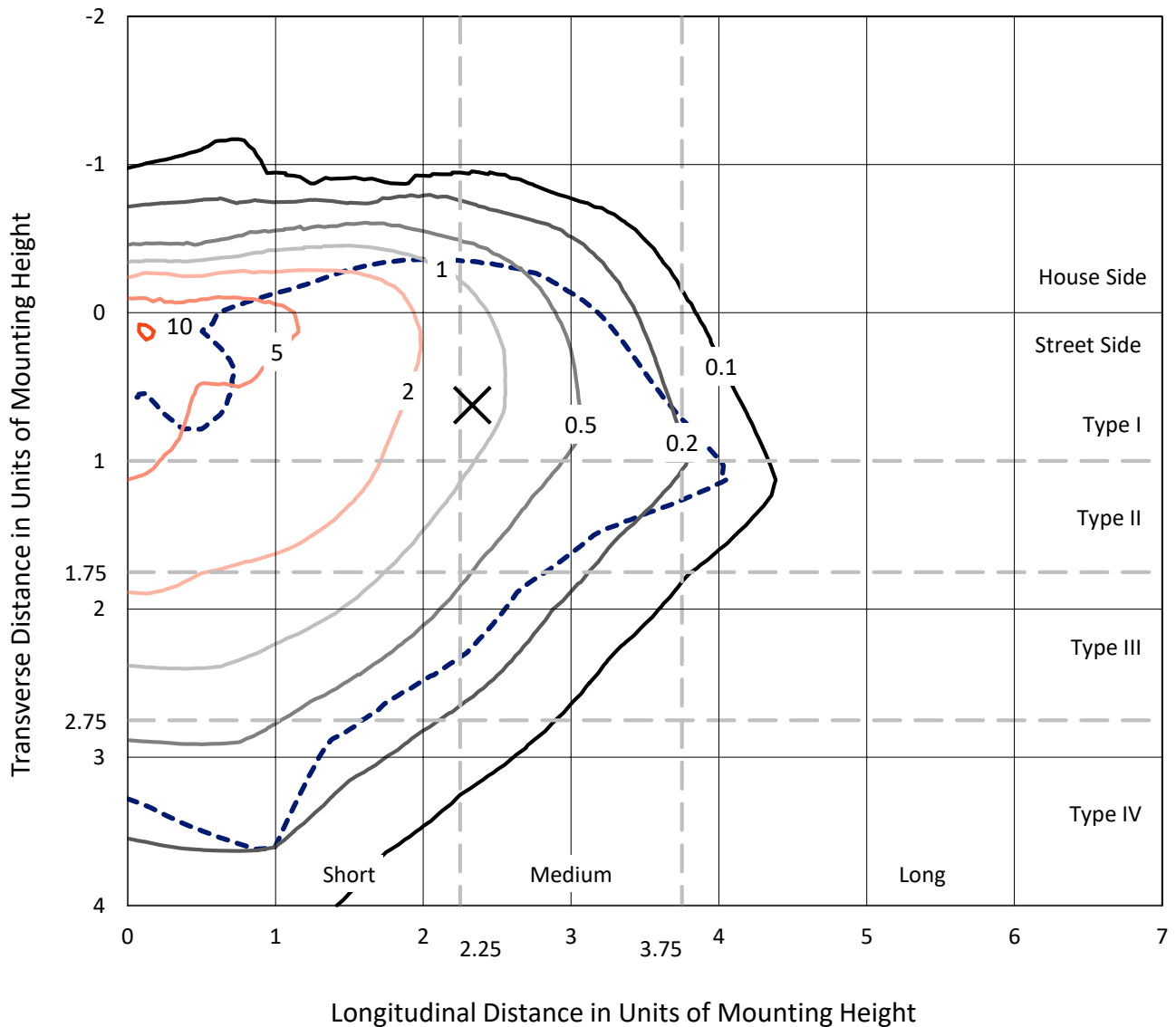
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

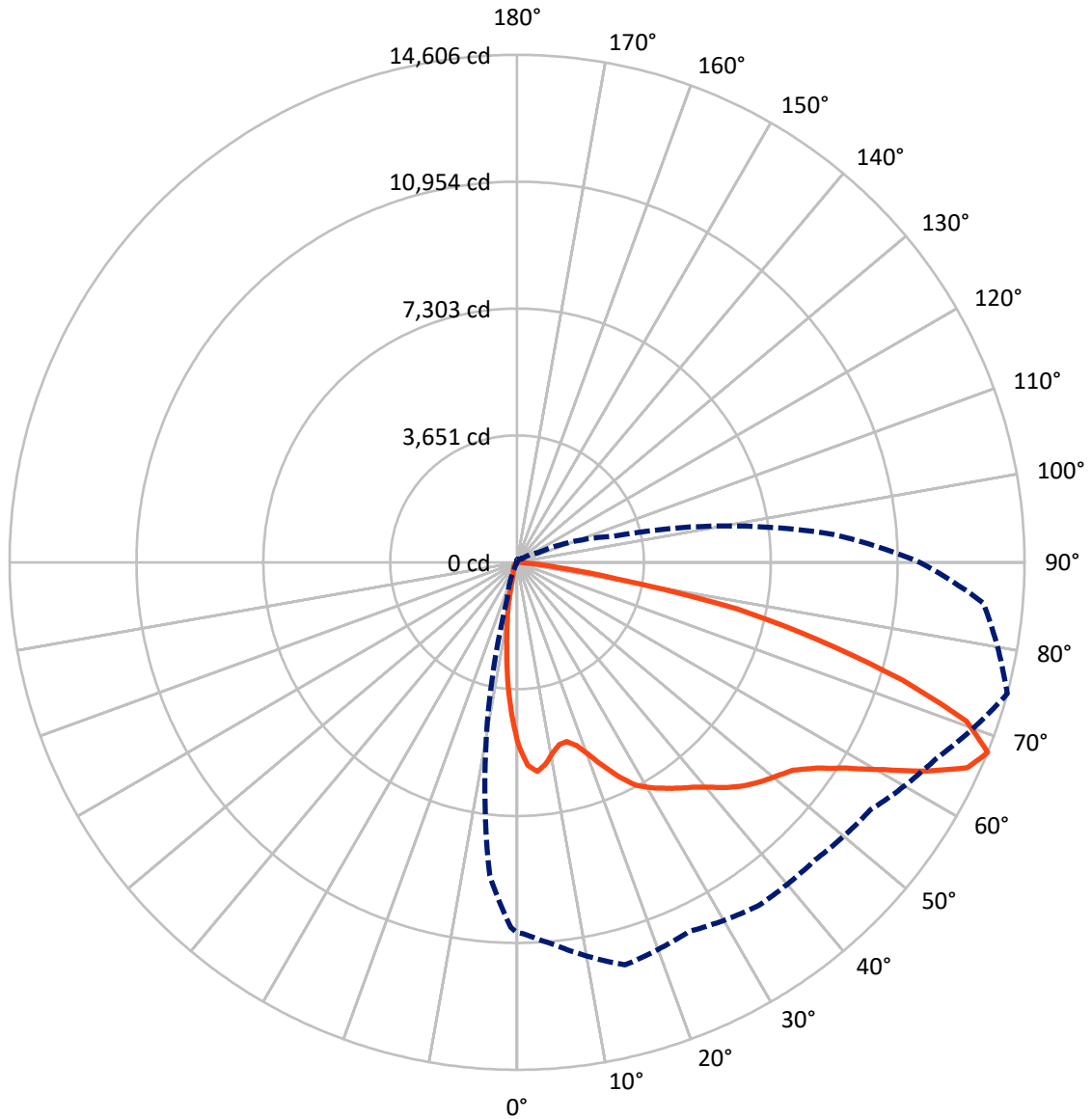
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P324109
CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

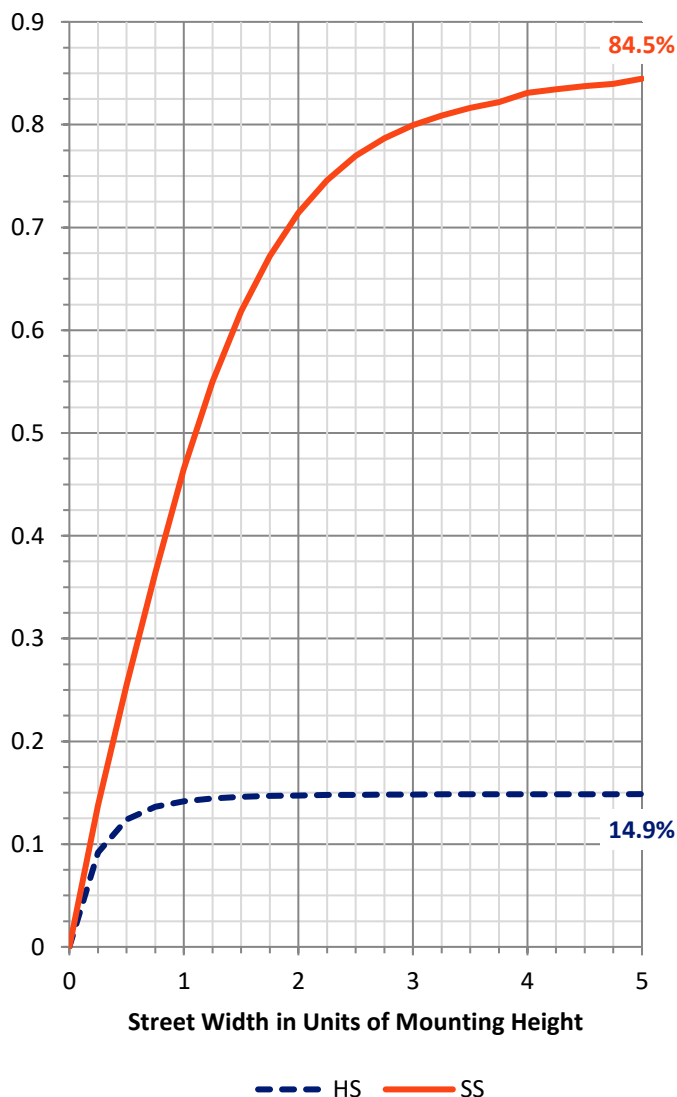
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.7	0.0	2359.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13365.3	0.0	13365.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	15725.0	0.0	15725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	2.5
10°-20°	787.9	5.0
20°-30°	1114.7	7.1
30°-40°	1638.9	10.4
40°-50°	2355.7	15.0
50°-60°	3316.2	21.1
60°-70°	3873.0	24.6
70°-80°	1975.9	12.6
80°-90°	262.5	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°	15725.0	100.0
0°-180°	15725.0	100.0

Coefficient of Utilization

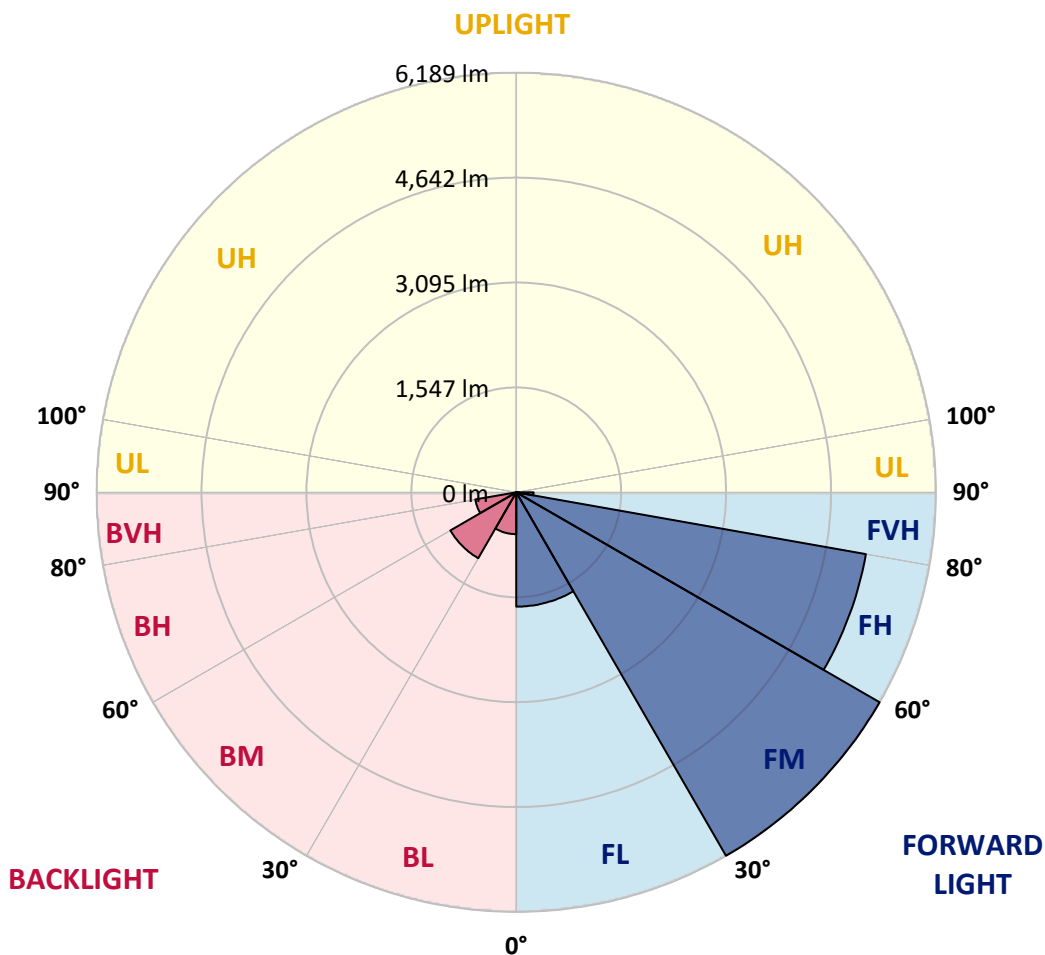


REPORT NUMBER: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.7	10.7			
FM (30°-60°)	6189.1	39.4			
FH (60°-80°)	5236.0	33.3			G3/7500
FVH (80°-90°)	254.5	1.6			G3/500
BL (0°-30°)	617.1	3.9	B2/1000		
BM (30°-60°)	1121.7	7.1	B2/2500		
BH (60°-80°)	612.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.1			G0/10
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





REPORT NUMBER: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5
2.5°	5718.7	5727.6	5773.8	5881.1	5998.0	6007.0	6085.9	6004.7	5977.2	5846.1	5710.5
5°	5761.9	5796.2	5954.8	6269.9	6543.3	6631.2	6693.8	6534.4	6366.8	6046.5	5704.5
7.5°	5414.0	5471.4	5720.9	6312.4	6801.0	7017.1	7058.0	6808.5	6398.1	5870.7	5356.7
10°	4968.6	5034.1	5335.1	6062.1	6733.3	7103.5	7160.1	6833.1	6243.1	5586.1	4980.5
12.5°	4608.0	4684.8	4992.4	5780.5	6500.1	6909.8	7021.5	6750.4	6109.0	5384.2	4723.5
15°	4441.9	4529.8	4853.1	5598.8	6241.6	6564.2	6656.5	6539.6	6034.5	5352.2	4663.9
17.5°	4537.3	4632.6	4966.3	5614.4	5998.8	6136.6	6211.1	6258.8	6034.5	5545.1	4838.2
20°	4928.3	5031.1	5384.2	5773.1	5797.7	5746.3	5826.0	5993.6	6104.6	5911.6	5256.8
22.5°	5469.1	5589.8	5988.3	6045.0	5699.3	5504.9	5515.3	5778.3	6231.9	6376.4	5837.9
25°	6128.4	6275.9	6681.1	6450.2	5740.3	5361.1	5357.4	5601.0	6356.3	6842.0	6485.2
27.5°	6783.2	6945.6	7301.6	6944.8	5909.4	5335.1	5327.6	5547.4	6477.8	7256.2	7192.1
30°	7332.2	7490.1	7797.0	7303.1	6091.9	5396.1	5360.4	5604.7	6550.0	7525.1	7707.6
32.5°	7779.1	7905.8	8153.8	7549.7	6287.1	5514.6	5437.1	5758.2	6672.9	7752.3	8181.4
35°	8270.8	8404.1	8503.2	7784.3	6506.1	5685.2	5574.2	6001.8	6862.1	7983.2	8700.6
37.5°	8831.7	8964.3	8952.4	7998.9	6783.9	5967.5	5896.7	6387.6	7156.4	8211.9	9280.1
40°	9380.7	9516.3	9419.4	8233.5	7110.2	6433.1	6380.9	6967.2	7550.4	8504.7	9959.5
42.5°	9894.7	10041.4	9834.3	8455.5	7499.0	7020.1	7109.4	7713.6	8043.6	8865.2	10545.0
45°	10308.8	10458.6	10182.2	8671.5	7908.7	7732.2	8001.1	8540.4	8636.5	9169.9	10940.5
47.5°	10609.8	10751.3	10423.6	8887.5	8433.2	8603.0	9071.5	9407.5	9172.1	9434.3	11221.4
50°	10802.0	10912.2	10494.3	9158.0	9121.5	9619.1	10186.7	10350.6	9676.4	9672.7	11562.5
52.5°	10924.1	10974.0	10546.5	9440.3	9839.5	10725.2	11278.7	11330.1	10195.6	9934.9	12022.1
55°	11345.0	11385.2	10915.9	9782.2	10433.2	11694.4	12266.5	12218.8	10783.3	10448.1	12564.4
57.5°	12063.1	12105.6	11679.5	10273.8	10913.7	12293.3	12982.3	13068.0	11472.4	11169.2	13145.5
60°	12423.6	12502.6	12350.6	10896.6	11379.3	12676.2	13470.2	13743.6	12333.5	12119.7	13708.6
62.5°	12096.6	12211.3	12431.8	11587.1	11841.9	12887.0	13622.2	13985.7	13215.5	13227.4	14055.7
65°	11444.1	11535.7	11909.7	11965.5	12110.0	12860.9	13246.8	13647.5	13755.5	14245.0	14037.1
67.5°	10656.0	10690.2	11007.6	11995.3	11721.2	12077.3	12119.0	12415.5	13328.7	14605.5	13473.2
70°	9521.5	9540.1	9817.2	10997.9	10072.7	10150.9	10089.1	10149.4	11459.0	13727.2	12049.7
72.5°	7662.9	7709.8	8103.9	9133.4	7338.1	7112.4	7598.1	7571.3	8825.0	11597.5	8949.4
75°	5642.0	5723.2	6318.3	7356.8	5150.3	4658.7	5013.3	5107.9	6273.7	8971.0	5596.5
77.5°	3950.3	4010.6	4587.2	5408.1	3727.5	3331.2	3203.1	3315.6	4141.0	6489.7	2819.5
80°	2275.7	2298.1	2666.0	3122.7	2511.8	2873.9	2603.5	2680.9	2481.3	2887.3	1212.7
82.5°	1489.1	1492.8	1636.6	1858.6	1564.3	1817.6	1345.3	1720.0	1526.3	1159.8	394.8
85°	804.5	809.0	949.0	1319.2	885.7	500.6	294.2	604.1	943.8	265.9	108.0
87.5°	88.6	81.2	286.0	479.7	245.8	45.4	15.6	67.8	151.2	17.1	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



REPORT NUMBER: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5
2.5°	5641.2	5579.4	5425.2	5262.1	5131.0	5008.0	4884.4	4733.2	4616.2	4592.4	4553.6
5°	5520.5	5324.6	5001.3	4676.6	4415.1	4085.1	3875.8	3712.6	3553.2	3543.5	3511.5
7.5°	5098.9	4841.2	4386.0	3936.9	3568.9	3254.5	2937.2	2724.9	2558.0	2499.2	2464.2
10°	4693.7	4403.9	3835.6	3323.1	2994.5	2716.7	2493.2	2271.2	2070.1	1931.6	1869.0
12.5°	4410.6	4090.3	3463.8	3022.1	2786.7	2523.0	2250.4	1973.3	1741.6	1574.7	1472.7
15°	4301.1	3959.2	3339.4	2902.9	2612.4	2278.7	1930.1	1613.5	1356.5	1205.3	1113.6
17.5°	4431.5	4033.7	3329.8	2757.7	2351.7	1936.8	1551.7	1177.7	935.6	820.9	762.0
20°	4762.2	4270.6	3326.0	2579.6	2041.8	1531.5	1051.1	774.7	628.0	563.9	536.3
22.5°	5230.0	4573.0	3355.8	2403.8	1719.3	1094.3	725.5	569.1	493.9	459.6	444.0
25°	5831.9	4997.6	3440.0	2244.4	1416.1	816.4	565.4	476.7	423.9	397.0	385.9
27.5°	6473.3	5486.3	3571.1	2105.9	1169.5	651.1	484.2	408.2	370.2	351.6	341.2
30°	7002.2	6052.4	3703.7	1951.7	990.7	567.6	443.2	372.5	328.5	316.6	306.9
32.5°	7464.8	6480.7	3797.6	1812.4	873.8	504.3	400.8	333.0	303.2	280.1	269.7
35°	7943.7	6837.5	3794.6	1714.8	793.3	456.6	365.0	298.0	262.2	235.4	227.2
37.5°	8462.2	7240.5	3729.8	1631.4	758.3	418.6	344.9	279.3	243.6	216.8	206.3
40°	9069.3	7663.7	3663.5	1553.1	748.6	388.1	330.7	264.4	226.5	200.4	190.0
42.5°	9660.8	8045.1	3605.4	1495.0	706.9	387.4	318.1	253.3	213.0	187.7	175.8
45°	10133.8	8400.4	3594.2	1460.0	663.0	400.8	311.4	245.8	202.6	177.3	166.1
47.5°	10527.1	8786.2	3665.7	1435.4	621.3	365.8	327.8	240.6	192.9	168.4	155.7
50°	10994.9	9260.0	3834.1	1395.2	577.3	329.3	375.4	242.1	184.7	159.4	146.0
52.5°	11647.4	9915.5	4081.4	1327.4	517.0	295.7	369.5	243.6	175.8	149.7	136.3
55°	12379.0	10734.2	4347.3	1215.0	432.8	251.8	316.6	233.2	158.7	139.3	126.6
57.5°	13147.7	11476.9	4505.2	1080.9	344.1	217.5	253.3	212.3	140.0	125.1	117.0
60°	13268.4	11759.2	4433.0	916.2	273.4	189.2	187.7	216.0	125.1	110.2	104.3
62.5°	12968.2	11404.6	4083.6	769.5	228.7	166.1	154.2	188.5	113.2	98.3	92.4
65°	12390.9	10445.9	3517.5	693.5	212.3	142.3	128.1	132.6	99.1	85.7	80.5
67.5°	11587.9	9166.1	2888.0	650.3	210.1	122.2	109.5	100.6	85.7	74.5	70.0
70°	9946.1	7636.1	2304.0	626.5	204.1	102.8	92.4	81.9	71.5	63.3	59.6
72.5°	7320.3	5411.0	1792.3	600.4	205.6	81.9	80.5	67.8	57.4	49.2	47.7
75°	4229.6	3091.4	1175.5	486.4	195.9	63.3	67.0	47.7	40.2	34.3	34.3
77.5°	2254.1	1885.4	447.7	202.6	71.5	40.2	38.0	28.3	25.3	20.9	20.1
80°	982.5	829.8	134.8	56.6	39.5	21.6	14.2	12.7	11.2	8.9	8.2
82.5°	347.9	300.2	43.9	27.6	17.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.0	56.6	0.0	6.7	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



REPORT NUMBER: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5
2.5°	4474.7	4458.3	4361.5	4365.2	4382.3	4406.9	4348.8	4375.6	4447.9	4517.1	4543.2
5°	3460.1	3463.8	3405.0	3441.5	3474.3	3496.6	3402.8	3404.2	3461.6	3539.8	3580.8
7.5°	2438.1	2432.1	2435.1	2522.3	2584.1	2539.4	2574.4	2453.0	2460.4	2516.3	2474.6
10°	1812.4	1730.4	1684.2	1749.8	1817.6	1793.0	1732.7	1693.2	1720.7	1782.6	1778.1
12.5°	1424.3	1306.6	1237.3	1190.4	1246.2	1200.1	1198.6	1164.3	1127.1	1133.8	1232.8
15°	1071.2	985.5	903.6	828.3	826.9	811.2	731.5	642.1	634.7	639.1	690.5
17.5°	736.7	707.7	674.1	609.3	592.2	526.7	449.2	413.4	395.5	403.7	420.9
20°	517.7	506.5	510.3	475.3	450.7	388.1	342.7	328.5	325.5	333.7	341.9
22.5°	429.1	409.0	406.7	391.1	366.5	321.1	296.5	288.3	284.6	292.0	298.0
25°	375.4	355.3	347.1	337.4	311.4	280.1	265.2	257.7	254.0	258.5	262.2
27.5°	330.7	312.1	304.7	298.0	272.6	250.3	238.4	231.7	228.7	230.2	233.9
30°	297.2	280.8	271.1	263.0	241.4	225.7	215.3	208.6	205.6	205.6	209.3
32.5°	262.2	253.3	244.3	233.9	213.8	203.4	192.9	185.5	182.5	183.2	186.2
35°	218.3	215.3	217.5	207.8	190.7	181.8	171.3	163.1	160.9	161.6	164.6
37.5°	193.7	180.3	188.5	183.2	173.6	161.6	148.2	140.8	137.1	139.3	140.8
40°	178.0	161.6	155.7	160.9	159.4	140.0	128.1	120.7	117.7	118.4	119.9
42.5°	164.6	145.3	131.8	131.1	140.0	122.2	109.5	102.8	99.1	99.1	100.6
45°	152.0	131.1	114.7	102.1	117.7	103.5	91.6	85.7	81.2	81.2	81.9
47.5°	142.3	119.2	99.8	83.4	88.6	84.9	75.2	69.3	64.8	64.8	65.6
50°	133.3	107.3	86.4	70.0	66.3	70.0	61.1	54.4	51.4	50.7	52.1
52.5°	123.7	95.3	73.7	59.6	52.1	52.9	47.7	43.2	39.5	39.5	41.0
55°	114.0	85.7	64.1	50.7	43.2	39.5	38.0	35.0	32.0	32.0	33.5
57.5°	104.3	75.2	54.4	41.7	34.3	31.3	31.3	29.1	26.8	26.8	28.3
60°	95.3	64.8	44.7	34.3	26.8	26.1	26.8	24.6	23.1	23.1	24.6
62.5°	84.9	55.1	36.5	28.3	21.6	20.9	23.1	21.6	20.1	20.1	21.6
65°	72.3	46.9	29.1	21.6	16.4	16.4	19.4	17.9	16.4	16.4	17.9
67.5°	61.1	39.5	22.3	15.6	11.9	12.7	16.4	14.9	14.2	14.2	15.6
70°	50.7	30.5	15.6	9.7	6.7	9.7	12.7	12.7	12.7	12.7	14.2
72.5°	38.0	20.9	8.9	3.7	3.0	6.7	10.4	11.9	11.2	11.2	13.4
75°	24.6	11.9	3.0	0.0	0.0	3.7	8.2	9.7	9.7	8.9	11.2
77.5°	14.2	3.7	0.0	0.0	0.0	0.0	5.2	4.5	3.7	3.0	5.2
80°	3.7	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: P324109
 CATALOG NUMBER: GAN-SA5A-730-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5	5275.5
2.5°	4648.3	4736.2	4859.8	4990.9	5192.8	5352.9	5510.1	5644.9	5697.1	5718.7
5°	3679.1	3808.0	3989.0	4221.4	4585.7	4913.4	5245.7	5580.1	5725.4	5761.9
7.5°	2640.0	2804.6	3034.8	3326.0	3752.9	4177.5	4641.5	5132.4	5357.4	5414.0
10°	1953.9	2155.0	2418.7	2725.6	3133.1	3569.6	4075.4	4636.3	4893.3	4968.6
12.5°	1386.3	1658.2	2011.3	2384.5	2737.6	3127.1	3638.9	4257.2	4526.8	4608.0
15°	814.2	1077.1	1495.0	1994.9	2447.0	2841.8	3361.8	4062.8	4360.0	4441.9
17.5°	467.1	598.2	914.0	1471.2	2085.0	2631.8	3274.6	4111.2	4461.3	4537.3
20°	356.8	398.5	526.7	947.5	1661.9	2425.4	3274.6	4385.3	4816.6	4928.3
22.5°	312.1	342.7	394.8	565.4	1223.1	2204.2	3312.6	4781.6	5345.5	5469.1
25°	277.1	304.7	349.4	425.3	834.3	1941.2	3402.8	5268.0	5968.2	6128.4
27.5°	248.1	274.1	314.4	372.5	570.6	1623.9	3524.2	5838.6	6655.0	6783.2
30°	222.0	246.6	283.1	324.0	440.2	1264.1	3627.7	6376.4	7194.4	7332.2
32.5°	197.4	219.7	252.5	283.1	360.5	934.9	3638.9	6802.5	7642.1	7779.1
35°	174.3	194.4	224.2	248.1	298.7	738.2	3465.3	7172.0	8089.7	8270.8
37.5°	152.0	171.3	197.4	215.3	263.0	601.9	3200.1	7584.0	8664.1	8831.7
40°	131.1	148.2	175.1	187.0	248.8	462.6	2911.9	8016.0	9227.2	9380.7
42.5°	111.7	128.1	154.2	177.3	218.3	345.6	2600.5	8421.2	9733.8	9894.7
45°	93.1	110.2	136.3	187.7	181.0	258.5	2267.5	8690.1	10133.8	10308.8
47.5°	75.2	94.6	130.4	178.8	144.5	190.0	2003.8	8944.9	10437.0	10609.8
50°	60.3	79.7	146.7	159.4	118.4	145.3	1893.6	9172.8	10635.9	10802.0
52.5°	49.2	67.0	138.6	122.2	99.1	119.9	1953.2	9542.3	10819.9	10924.1
55°	41.0	52.9	83.4	84.9	84.2	102.1	2026.9	10072.7	11295.8	11345.0
57.5°	35.8	42.5	58.1	65.6	70.8	90.9	2028.4	10834.0	12032.6	12063.1
60°	30.5	37.2	48.4	52.9	61.1	81.2	1954.6	11099.9	12322.3	12423.6
62.5°	26.8	32.8	40.2	43.9	51.4	73.0	1781.8	10714.8	11924.6	12096.6
65°	23.8	29.8	33.5	37.2	45.4	65.6	1497.3	9944.6	11264.6	11444.1
67.5°	20.9	26.1	29.8	33.5	41.0	58.1	1102.5	9049.9	10507.0	10656.0
70°	18.6	23.1	26.8	29.8	35.8	49.2	668.9	7679.3	9459.6	9521.5
72.5°	17.9	20.9	24.6	26.8	31.3	43.2	338.9	5643.5	7562.3	7662.9
75°	15.6	18.6	22.3	23.8	27.6	37.2	137.8	3706.7	5480.3	5642.0
77.5°	12.7	17.1	20.1	21.6	23.8	30.5	70.0	2368.8	3846.0	3950.3
80°	4.5	12.7	17.1	17.9	20.1	22.3	46.2	1296.9	2231.0	2275.7
82.5°	0.0	8.2	13.4	12.7	14.2	17.1	29.8	616.8	1472.7	1489.1
85°	0.0	3.7	10.4	8.2	6.0	11.9	10.4	134.8	772.5	804.5
87.5°	0.0	0.0	0.7	3.7	3.0	4.5	1.5	0.7	70.0	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)