

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: P324388

Luminaire Tested: **GAN-SA4A-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11654 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

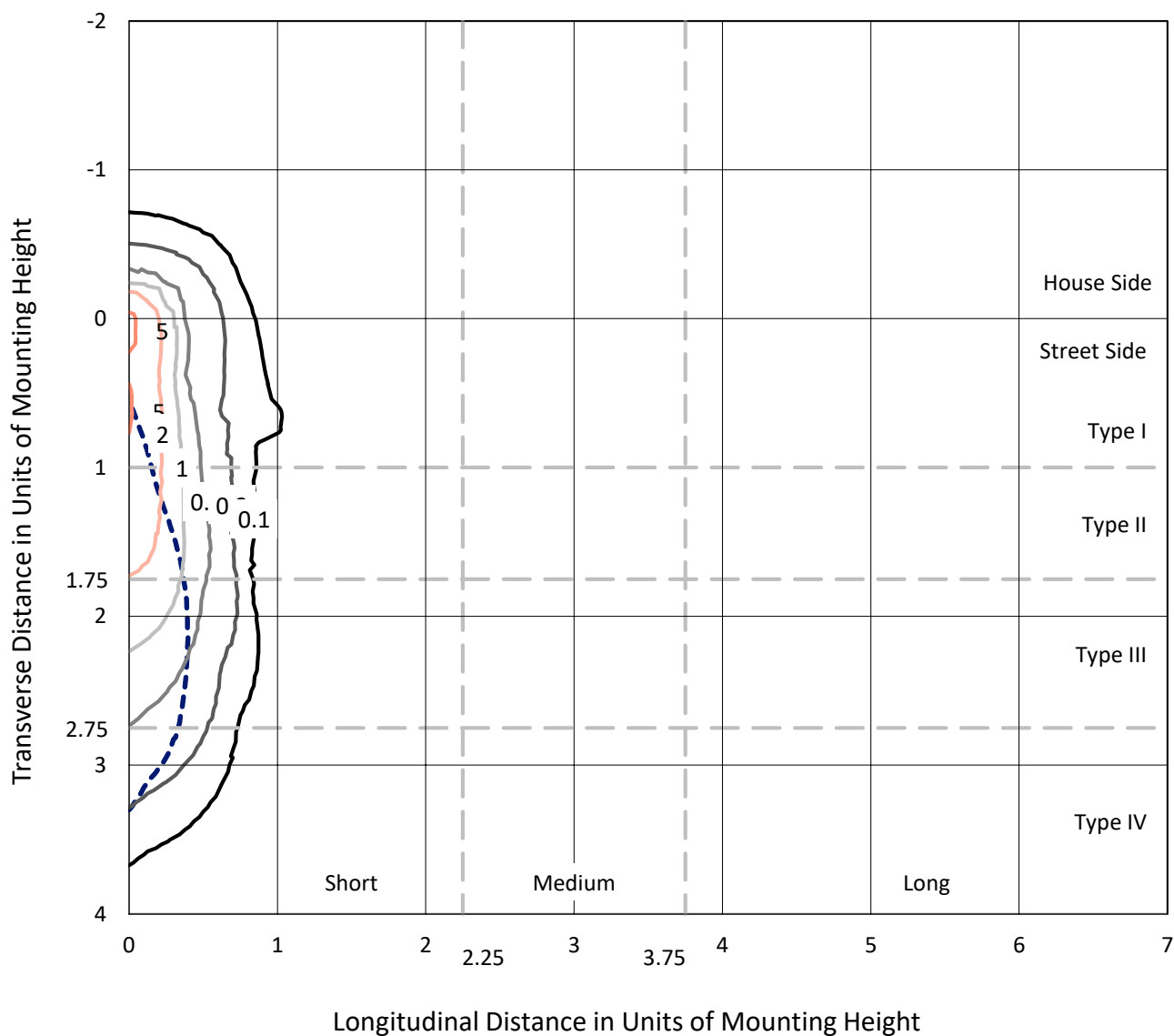
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324388
 CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

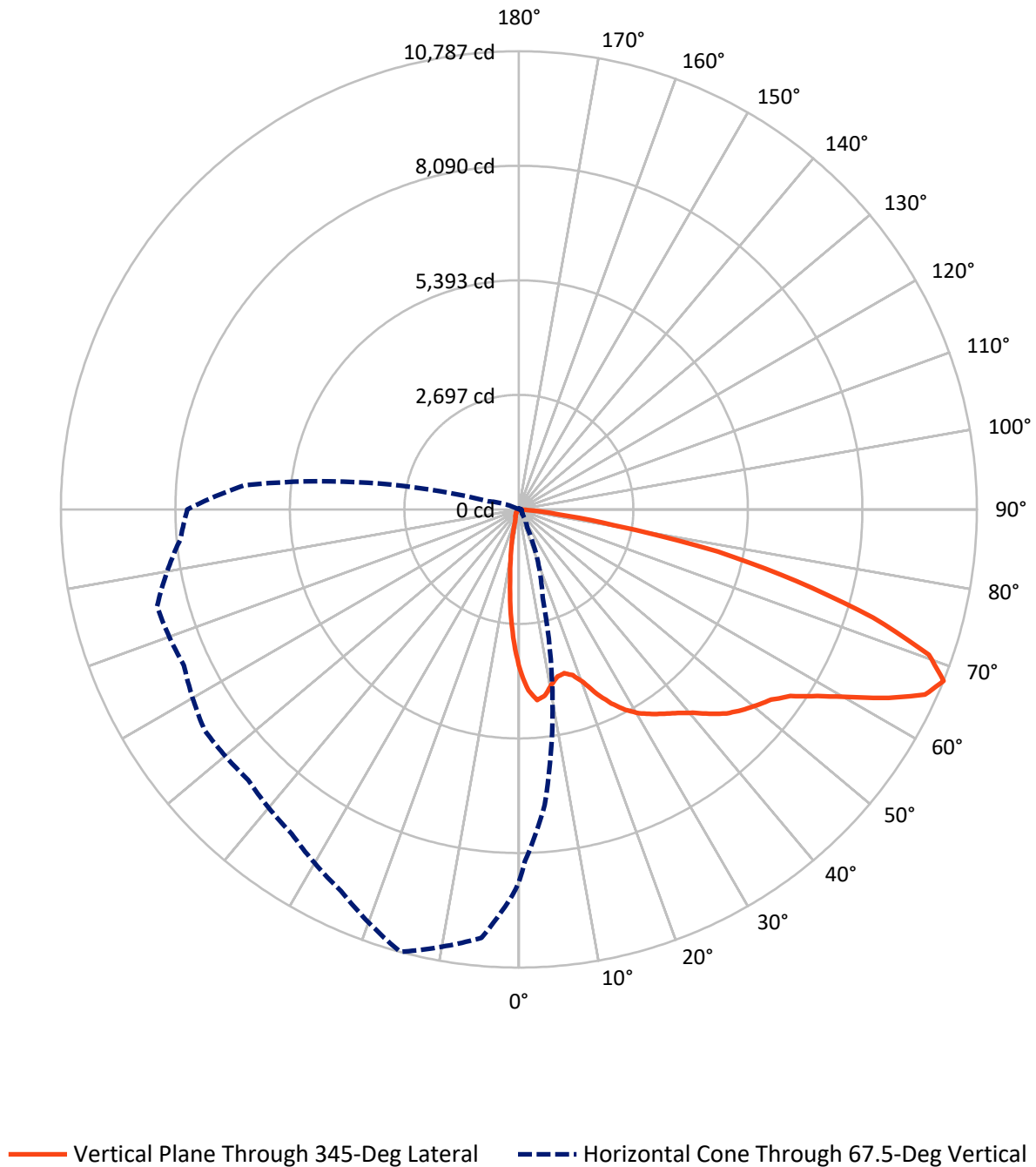
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P324388
CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324388

CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1410.5	0.0	1410.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	10243.5	0.0	10243.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	11654.0	0.0	11654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.4	2.5
10°-20°	579.9	5.0
20°-30°	823.5	7.1
30°-40°	1216.4	10.4
40°-50°	1754.3	15.1
50°-60°	2462.7	21.1
60°-70°	2870.8	24.6
70°-80°	1467.6	12.6
80°-90°	187.4	1.6
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°	11654.0	100.0
0°-180°	11654.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324388

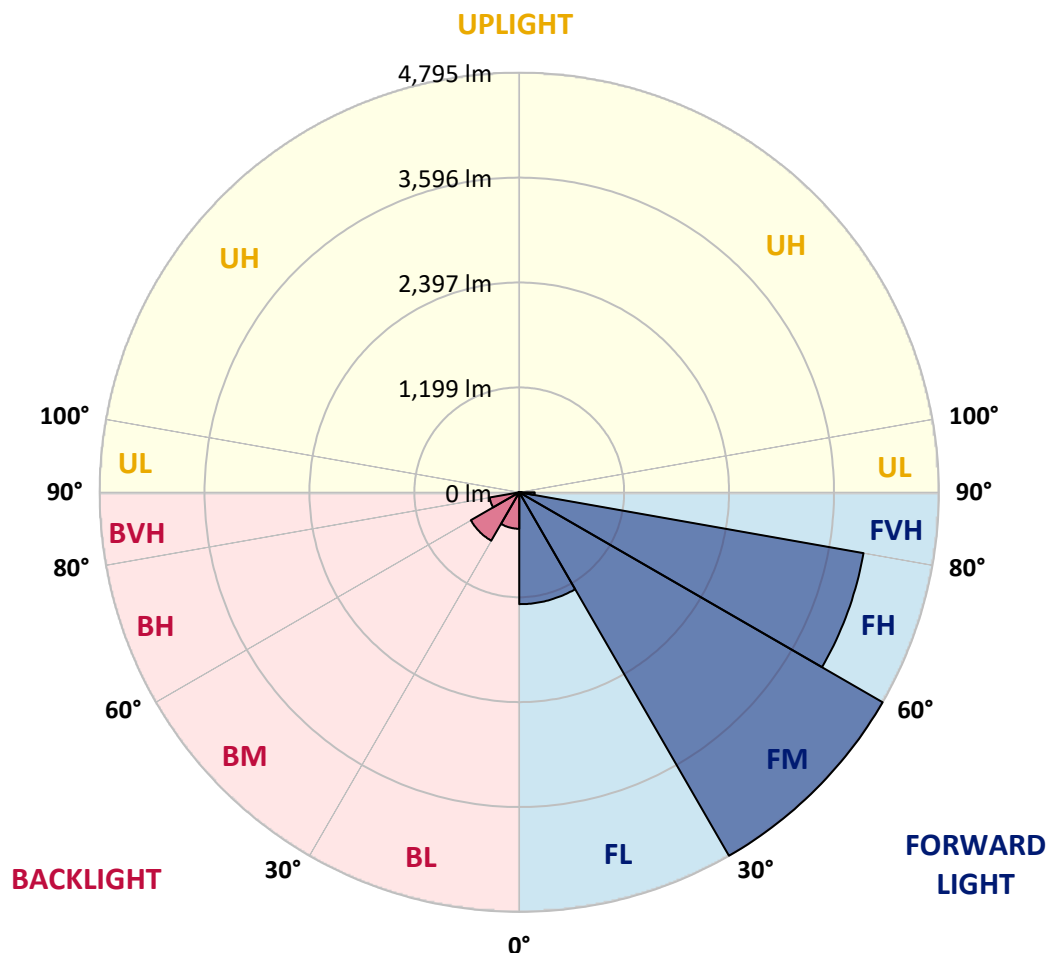
CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1278.2	11.0			
FM	(30°-60°)	4794.6	41.1			
FH	(60°-80°)	3994.6	34.3			G2/5000
FVH	(80°-90°)	176.0	1.5			G2/225
BL	(0°-30°)	416.6	3.6	B1/500		
BM	(30°-60°)	638.7	5.5	B1/1000		
BH	(60°-80°)	343.8	2.9	B1/500		G1/500
BVH	(80°-90°)	11.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



REPORT NUMBER: P324388

CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3
2.5°	4156.8	4124.8	4089.4	3974.0	3866.9	3744.4	3644.4	3574.9	3487.6	3374.5	3345.8
5°	4127.0	4092.7	3981.8	3725.0	3500.3	3281.7	3070.8	2947.1	2793.6	2638.0	2599.3
7.5°	3827.2	3791.3	3631.2	3279.5	2976.9	2661.1	2387.3	2217.8	2044.4	1902.0	1826.4
10°	3515.2	3476.0	3296.1	2869.3	2496.6	2211.2	2010.2	1848.4	1684.5	1532.1	1410.6
12.5°	3300.5	3249.1	3053.7	2570.0	2245.4	2051.6	1863.9	1670.1	1448.2	1284.7	1151.1
15°	3210.5	3152.0	2945.5	2454.7	2156.5	1929.1	1684.5	1446.5	1186.5	999.3	876.7
17.5°	3280.1	3203.9	2982.5	2446.9	2045.0	1735.3	1426.1	1146.7	864.6	675.2	588.0
20°	3516.4	3416.4	3135.4	2444.7	1909.7	1505.0	1113.0	797.2	569.8	458.2	412.4
22.5°	3888.5	3756.5	3355.1	2462.4	1770.0	1263.2	803.9	541.6	427.9	369.9	342.9
25°	4337.9	4185.0	3671.5	2524.8	1647.5	1028.0	584.1	427.9	361.1	318.6	295.9
27.5°	4765.2	4641.0	4071.2	2614.8	1552.5	838.1	474.3	362.7	308.6	280.5	262.2
30°	5192.0	5035.7	4481.4	2721.9	1438.2	709.5	416.8	330.7	276.6	246.8	235.2
32.5°	5502.3	5372.5	4802.8	2799.2	1316.2	625.5	372.7	302.6	258.4	228.0	210.9
35°	5867.2	5720.4	5078.3	2816.3	1237.8	572.5	335.1	272.2	224.2	197.1	178.9
37.5°	6261.4	6078.7	5396.3	2778.7	1176.5	546.6	307.0	258.4	209.2	181.6	162.3
40°	6697.6	6491.1	5701.6	2724.6	1116.4	537.7	285.4	247.9	197.7	169.5	149.6
42.5°	7156.9	6913.4	5966.0	2667.8	1078.3	507.4	283.2	237.4	188.8	158.5	138.6
45°	7542.8	7296.1	6237.7	2649.0	1051.2	474.3	292.6	230.2	182.7	149.6	130.3
47.5°	7850.4	7616.8	6515.9	2691.0	1035.7	443.9	266.7	239.6	179.4	141.9	123.1
50°	8217.5	7953.1	6907.9	2816.3	1013.1	413.5	241.3	274.4	179.4	136.9	117.0
52.5°	8678.0	8416.3	7345.2	3010.6	967.8	371.6	217.0	274.9	181.1	130.3	109.3
55°	9257.1	9067.2	7969.6	3223.7	895.5	309.7	187.7	236.3	174.5	118.2	102.1
57.5°	9812.5	9657.4	8538.8	3369.5	798.9	241.8	163.4	190.5	159.6	103.8	91.1
59°	9964.4	9794.9	8747.5	3376.1	726.6	210.9	151.3	157.3	156.2	97.2	84.5
60°	9964.4	9784.4	8807.7	3340.8	674.1	193.8	143.5	140.2	162.9	92.8	80.6
62.5°	9783.8	9531.0	8612.3	3101.7	549.9	165.1	125.3	115.9	146.3	83.4	71.2
65°	9408.4	9040.2	7946.4	2669.4	490.3	151.3	108.2	95.0	101.6	73.4	62.4
67.5°	8782.3	8283.2	6986.3	2156.5	466.5	147.4	93.3	80.6	76.7	62.9	54.7
70°	7679.8	7126.0	5820.8	1695.5	446.1	145.8	78.4	67.9	61.8	53.0	46.4
72.5°	5589.5	5012.0	4132.5	1325.6	434.0	149.1	62.9	56.9	50.8	41.4	35.9
75°	3197.2	2819.0	2322.7	875.6	369.9	142.4	48.6	47.5	36.4	29.8	24.8
77.5°	1651.9	1601.7	1391.9	336.2	177.2	62.4	32.0	27.6	21.5	18.2	14.9
80°	712.8	705.0	610.1	97.2	46.9	34.8	18.2	11.6	9.9	7.7	6.1
82.5°	246.2	246.2	217.0	32.6	21.0	17.1	2.2	0.0	0.0	0.0	0.0
85°	49.7	55.8	39.2	0.0	7.2	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: P324388

CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3
2.5°	3311.0	3244.2	3239.7	3197.8	3145.3	3121.6	3107.8	3132.1	3161.9	3165.2	3209.9
5°	2570.0	2499.9	2529.2	2454.7	2469.6	2454.7	2430.4	2434.8	2448.0	2406.6	2458.0
7.5°	1804.8	1751.8	1785.5	1765.6	1792.1	1802.6	1787.7	1765.6	1700.5	1692.8	1737.5
10°	1360.4	1300.2	1264.3	1226.8	1235.1	1252.2	1246.7	1230.6	1189.2	1191.4	1234.5
12.5°	1093.2	1025.8	954.6	862.4	839.8	852.4	839.8	830.4	790.6	793.9	832.0
15°	829.3	774.1	699.5	625.5	585.2	589.1	553.8	528.9	504.1	474.3	497.4
17.5°	559.8	526.2	504.1	482.0	434.0	422.9	378.2	330.2	311.4	297.6	307.5
20°	396.4	378.2	369.4	368.3	340.6	326.8	283.2	253.4	244.0	241.3	247.3
22.5°	331.3	318.0	305.3	298.1	284.3	268.3	235.2	220.3	213.7	210.4	214.8
25°	288.2	278.3	265.0	252.9	247.3	230.2	206.5	195.4	191.0	187.7	189.9
27.5°	256.2	247.3	231.9	224.2	219.7	204.8	184.4	175.6	171.7	170.6	170.0
30°	230.8	222.5	208.1	199.3	191.6	178.3	166.2	157.3	153.5	152.4	151.3
32.5°	205.4	198.8	189.4	180.5	172.3	160.1	149.6	142.4	136.4	135.3	134.7
35°	173.4	166.7	161.8	161.2	153.5	141.9	134.2	124.8	119.8	118.2	118.7
37.5°	154.0	145.2	134.2	138.0	135.8	127.5	117.0	107.7	102.7	101.6	101.6
40°	141.9	132.5	119.8	113.2	119.8	118.2	101.6	92.2	87.2	86.7	85.6
42.5°	130.3	120.9	106.6	95.5	98.8	103.8	87.8	79.0	74.0	72.9	71.2
45°	122.0	112.1	96.1	83.4	76.7	87.2	75.1	64.0	61.3	59.1	58.0
47.5°	114.3	104.9	86.7	72.3	61.3	62.9	60.2	52.4	49.1	46.9	46.4
50°	107.7	97.7	78.4	61.8	50.8	46.4	48.6	41.4	38.6	36.4	35.3
52.5°	99.9	90.5	69.6	53.6	42.5	36.4	37.0	32.6	29.8	28.2	27.6
55°	93.9	84.5	62.4	46.9	37.5	29.8	26.5	25.4	23.7	22.6	22.1
57.5°	85.6	76.7	55.2	39.8	32.0	24.3	20.4	20.4	19.9	18.8	18.2
59°	80.6	72.9	50.8	35.9	29.3	21.0	18.2	18.8	18.2	17.1	16.6
60°	76.7	69.6	47.5	33.1	27.6	19.3	16.6	17.7	17.1	16.0	15.5
62.5°	67.9	62.9	40.9	27.6	24.3	15.5	13.8	14.9	14.9	14.4	13.8
65°	59.6	54.1	34.8	23.2	22.6	13.3	11.0	13.3	13.8	12.7	11.6
67.5°	51.9	46.4	30.4	18.8	21.0	10.5	8.3	11.0	14.9	11.6	10.5
70°	44.2	38.6	23.7	14.9	22.1	7.2	6.6	9.9	17.7	12.7	9.9
72.5°	34.2	29.8	16.6	11.0	23.7	5.0	5.0	8.3	19.9	13.8	9.4
75°	23.7	19.3	9.9	6.6	19.3	3.3	3.3	7.7	18.8	12.7	8.8
77.5°	13.8	10.5	3.3	0.6	9.9	0.0	0.6	5.5	13.3	7.7	3.9
80°	5.0	2.2	0.0	0.0	6.1	0.0	0.0	0.0	1.1	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: P324388

CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3
2.5°	3221.5	3296.1	3362.9	3463.9	3583.7	3721.7	3840.4	3968.0	4087.8	4137.5	4171.7
5°	2468.5	2560.7	2668.3	2816.8	3014.5	3258.0	3486.0	3743.8	4021.0	4159.6	4289.9
7.5°	1745.2	1839.1	1972.7	2130.6	2369.6	2659.5	2957.6	3313.7	3689.2	3908.3	4124.2
10°	1254.9	1370.3	1495.1	1711.0	1953.9	2228.8	2535.8	2933.3	3351.8	3594.8	3854.8
12.5°	854.1	985.5	1174.3	1416.1	1701.6	1971.0	2237.7	2617.0	3102.8	3343.5	3622.4
15°	512.4	585.2	785.1	1065.0	1415.0	1750.7	2042.8	2423.2	2941.1	3235.9	3525.7
17.5°	315.8	349.5	458.2	687.9	1055.6	1480.2	1880.5	2357.5	2964.2	3323.1	3633.4
20°	251.8	265.0	299.8	406.3	699.5	1182.1	1697.7	2344.2	3153.6	3595.3	3928.2
22.5°	218.6	231.3	254.5	295.4	440.0	885.0	1524.4	2356.4	3425.3	4003.3	4392.0
25°	192.7	203.7	225.8	259.5	322.4	623.3	1338.9	2410.5	3779.2	4509.6	4922.6
27.5°	172.3	181.6	202.1	233.0	276.6	435.1	1128.5	2476.2	4198.8	5027.5	5434.9
30°	153.5	161.8	180.0	208.7	240.2	334.6	897.7	2520.9	4618.9	5434.9	5801.0
32.5°	137.5	143.5	160.1	184.4	208.7	266.7	682.4	2513.7	4930.8	5773.9	6064.3
35°	120.9	127.0	141.3	162.3	181.6	220.3	536.6	2379.6	5202.5	6125.6	6365.8
37.5°	102.7	110.4	124.2	143.0	156.2	193.8	434.0	2217.8	5478.0	6527.5	6702.0
40°	87.2	95.0	107.1	127.5	135.8	183.9	333.5	2020.7	5787.7	6976.9	7070.8
42.5°	72.3	79.5	92.2	109.9	128.1	158.5	246.8	1795.4	6085.3	7361.2	7407.0
45°	58.5	65.7	79.0	96.6	136.9	131.4	191.0	1554.2	6325.5	7680.9	7695.8
47.5°	46.4	53.0	66.8	91.1	127.5	104.9	136.4	1364.8	6527.0	7930.4	7891.2
50°	35.9	41.4	55.8	104.3	111.5	86.7	103.2	1301.9	6707.5	8085.0	7983.4
52.5°	28.2	33.1	45.8	97.7	86.7	71.8	86.7	1360.9	6954.9	8213.1	8035.3
55°	22.6	27.6	35.9	55.8	59.1	60.7	74.0	1416.1	7381.6	8513.4	8341.7
57.5°	18.8	23.7	29.3	39.2	44.7	51.3	65.7	1422.2	7884.6	9012.5	8850.2
59°	17.1	21.5	26.5	34.8	39.2	46.9	61.8	1389.1	8061.8	9194.2	9113.0
60°	16.0	20.4	24.8	32.0	36.4	44.2	59.6	1357.6	8069.6	9187.6	9225.1
62.5°	13.8	18.2	22.1	27.1	30.9	37.5	53.6	1241.1	7742.7	8886.7	9157.8
65°	12.1	16.0	19.9	23.2	26.5	33.7	48.6	1028.6	7184.5	8401.4	8696.7
67.5°	11.0	13.8	18.2	20.4	23.7	29.8	43.1	733.2	6487.2	7807.9	7999.4
70°	9.9	13.3	16.6	18.8	21.5	25.9	37.0	421.3	5478.0	6938.8	7075.2
72.5°	9.4	12.7	14.9	17.7	19.3	23.2	33.7	198.2	4011.0	5558.6	5914.7
75°	8.3	11.6	13.8	16.6	18.2	21.0	28.7	95.0	2667.8	4022.6	4427.3
77.5°	5.0	9.4	12.7	14.9	16.0	18.2	23.7	54.7	1702.7	2784.3	3279.5
80°	0.0	3.3	9.4	12.7	13.8	15.5	18.2	43.1	911.0	1590.6	1909.2
82.5°	0.0	0.0	6.6	9.9	9.4	10.5	13.8	27.1	410.8	1039.6	1171.6
85°	0.0	0.0	2.2	7.7	6.6	5.0	9.4	9.4	90.0	526.2	656.5
87.5°	0.0	0.0	0.0	0.6	3.3	2.2	3.9	1.1	0.6	39.2	159.0
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: P324388

CATALOG NUMBER: GAN-SA4A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3	3796.3
2.5°	4291.5	4332.4	4401.4	4433.9	4417.9	4350.0	4268.9	4186.1	4137.5	4156.8
5°	4555.4	4765.8	4887.2	4927.5	4860.2	4707.8	4508.5	4245.7	4152.4	4127.0
7.5°	4555.4	4951.3	5201.9	5246.1	5095.9	4797.2	4423.5	4013.2	3876.9	3827.2
10°	4395.3	4934.2	5283.6	5353.8	5144.0	4697.3	4196.5	3728.4	3566.6	3515.2
12.5°	4214.8	4795.0	5163.3	5259.9	5087.6	4597.9	4039.2	3535.7	3345.2	3300.5
15°	4103.8	4623.9	4928.6	4998.8	4925.9	4540.0	4001.7	3477.7	3253.6	3210.5
17.5°	4143.5	4491.4	4601.2	4642.1	4691.2	4519.5	4103.8	3604.7	3320.9	3280.1
20°	4293.2	4351.7	4294.8	4346.2	4478.7	4539.4	4347.3	3911.7	3571.0	3516.4
22.5°	4547.1	4279.4	4119.8	4140.2	4301.4	4605.1	4719.4	4350.0	3956.9	3888.5
25°	4843.1	4337.9	4022.6	4004.4	4170.0	4691.8	5059.5	4827.0	4413.5	4337.9
27.5°	5215.2	4469.3	4002.8	3984.5	4124.2	4772.9	5342.2	5298.5	4894.4	4765.2
30°	5502.3	4598.5	4061.8	4019.9	4170.0	4829.3	5569.1	5698.8	5277.6	5192.0
32.5°	5708.2	4750.9	4157.9	4097.2	4299.2	4926.4	5744.1	6065.4	5632.0	5502.3
35°	5865.0	4916.5	4313.0	4213.1	4477.0	5073.8	5908.1	6455.8	6009.1	5867.2
37.5°	6011.9	5148.9	4555.4	4436.2	4755.8	5311.2	6081.4	6898.5	6430.9	6261.4
40°	6216.7	5412.3	4929.2	4823.2	5224.6	5634.8	6297.9	7360.1	6910.7	6697.6
42.5°	6421.5	5695.0	5311.8	5340.5	5809.2	6027.9	6577.2	7848.2	7384.4	7156.9
45°	6608.7	5986.5	5856.7	5989.2	6352.0	6459.1	6854.9	8130.3	7762.6	7542.8
47.5°	6775.4	6350.9	6398.3	6751.1	6969.2	6849.4	7062.5	8373.8	8044.2	7850.4
50°	6969.2	6822.4	7112.2	7611.3	7679.8	7202.8	7251.3	8662.0	8373.2	8217.5
52.5°	7181.2	7319.2	7902.8	8342.8	8320.8	7586.5	7441.3	8984.9	8824.3	8678.0
55°	7421.9	7720.6	8599.0	9027.5	9008.7	8014.9	7756.0	9384.1	9389.6	9257.1
57.5°	7779.1	8066.2	9071.6	9581.2	9612.7	8509.6	8289.3	9831.3	9900.9	9812.5
59°	8035.3	8290.4	9258.8	9812.5	9940.6	8892.2	8679.1	10090.8	10045.0	9964.4
60°	8225.2	8432.8	9351.5	9933.5	10131.1	9151.7	8966.7	10243.2	10062.1	9964.4
62.5°	8695.1	8743.1	9518.8	10070.4	10350.3	9728.1	9776.1	10502.7	9943.4	9783.8
65°	8914.3	8939.1	9516.6	9825.2	10138.3	10176.9	10510.4	10510.4	9653.5	9408.4
67.5°	8822.6	8702.8	9044.6	9012.5	9325.0	9910.3	10786.5	10125.0	9099.2	8782.3
70°	8077.3	7616.3	7464.4	7478.3	7717.3	8620.0	10239.9	8991.0	8050.2	7679.8
72.5°	6720.8	5614.9	5240.0	5667.9	5730.3	6624.7	8726.6	6771.0	5936.8	5589.5
75°	5405.7	3958.0	3348.5	3800.1	3906.1	4848.0	6750.6	4217.0	3467.8	3197.2
77.5°	3883.5	2841.1	2402.8	2371.3	2508.2	3074.7	4790.1	2122.3	1770.0	1651.9
80°	2206.2	1870.0	2013.5	1899.8	1968.8	1922.4	2275.8	930.8	762.5	712.8
82.5°	1331.7	1105.3	1197.0	996.5	1261.0	1098.1	876.7	298.1	258.9	246.2
85°	866.3	604.0	314.7	210.9	434.5	701.7	196.0	81.2	62.4	49.7
87.5°	298.7	154.0	15.5	6.6	46.4	130.8	7.2	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

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