

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: P324468

Luminaire Tested: **GAN-SA4A-740-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324468  
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-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 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: 13935 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

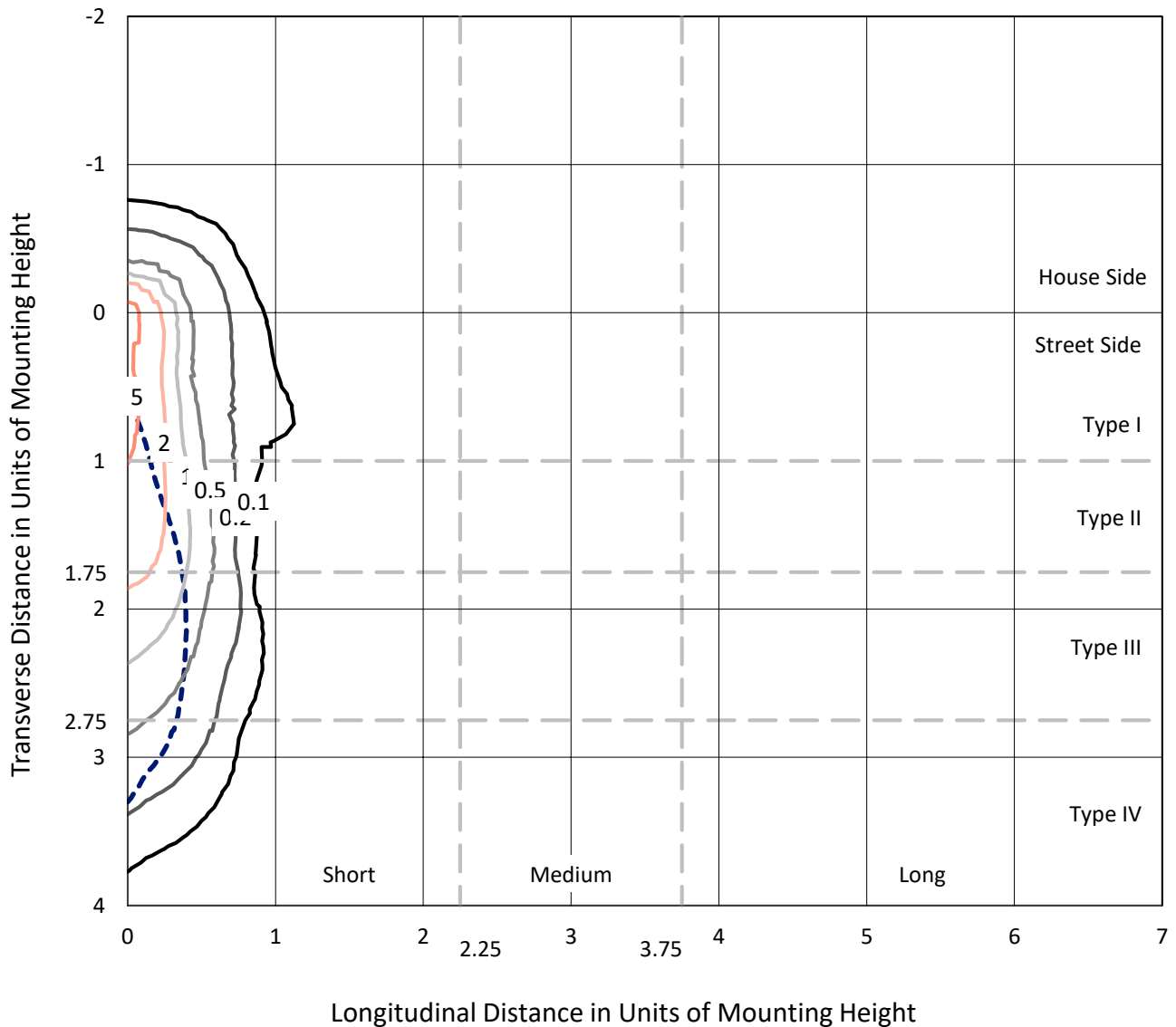
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324468  
 CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

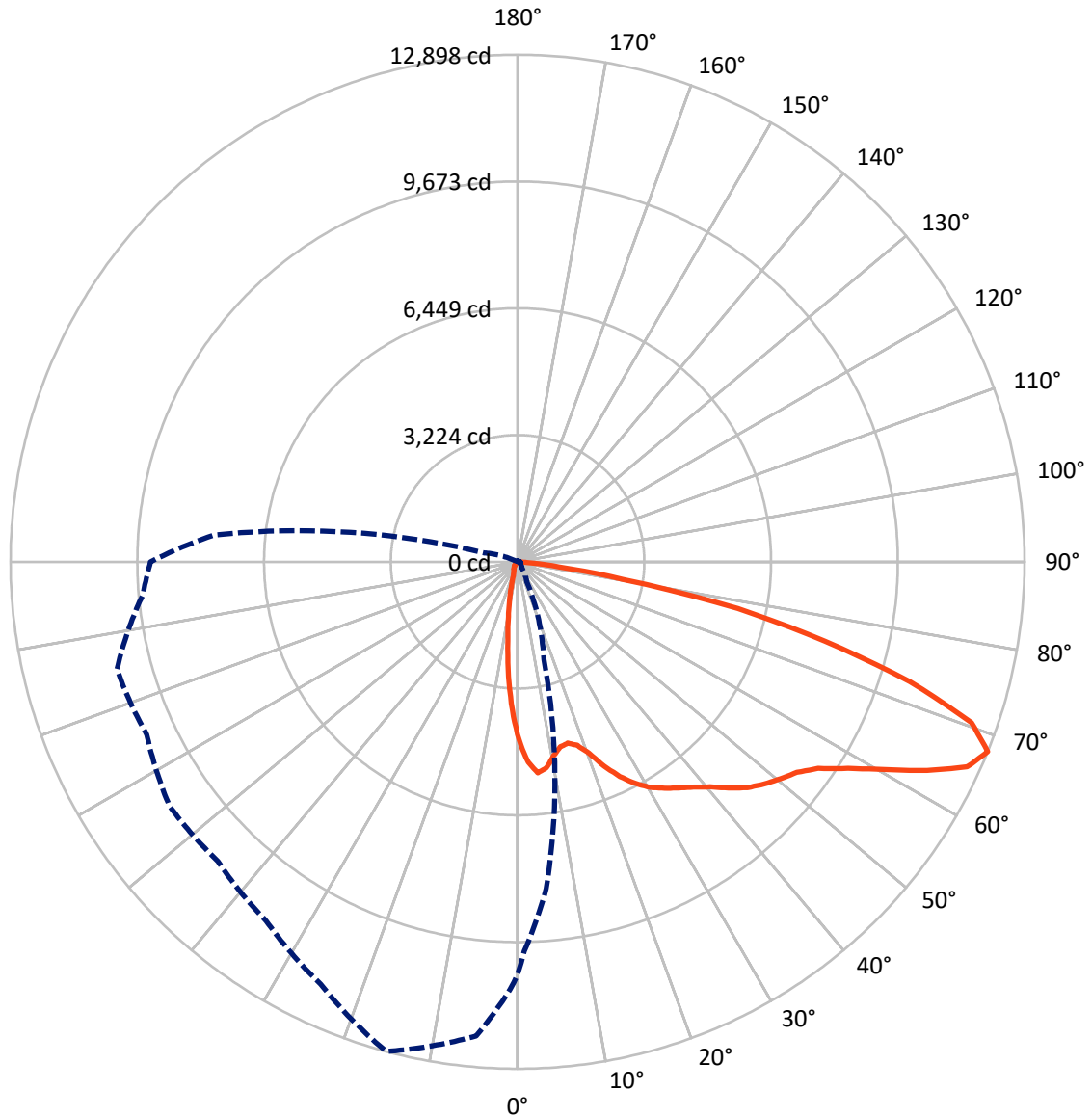
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P324468  
CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324468  
 CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

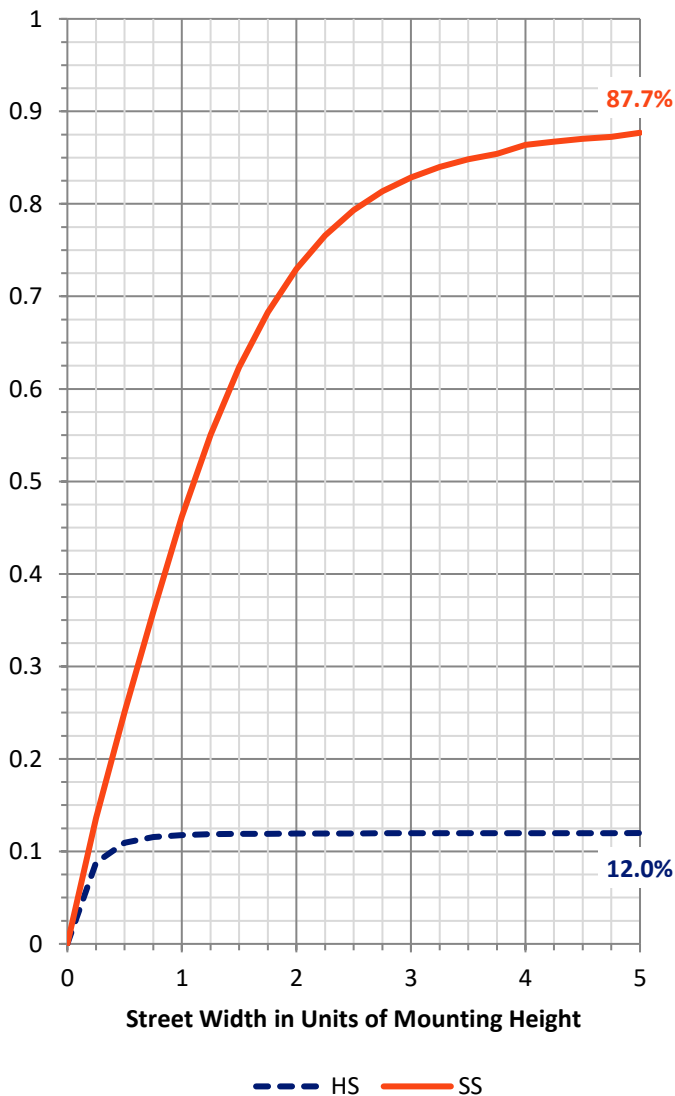
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1686.6	0.0	1686.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	12248.4	0.0	12248.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	13935.0	0.0	13935.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.4	2.5
10°-20°	693.5	5.0
20°-30°	984.7	7.1
30°-40°	1454.5	10.4
40°-50°	2097.7	15.1
50°-60°	2944.7	21.1
60°-70°	3432.7	24.6
70°-80°	1754.8	12.6
80°-90°	224.1	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°	13935.0	100.0
0°-180°	13935.0	100.0



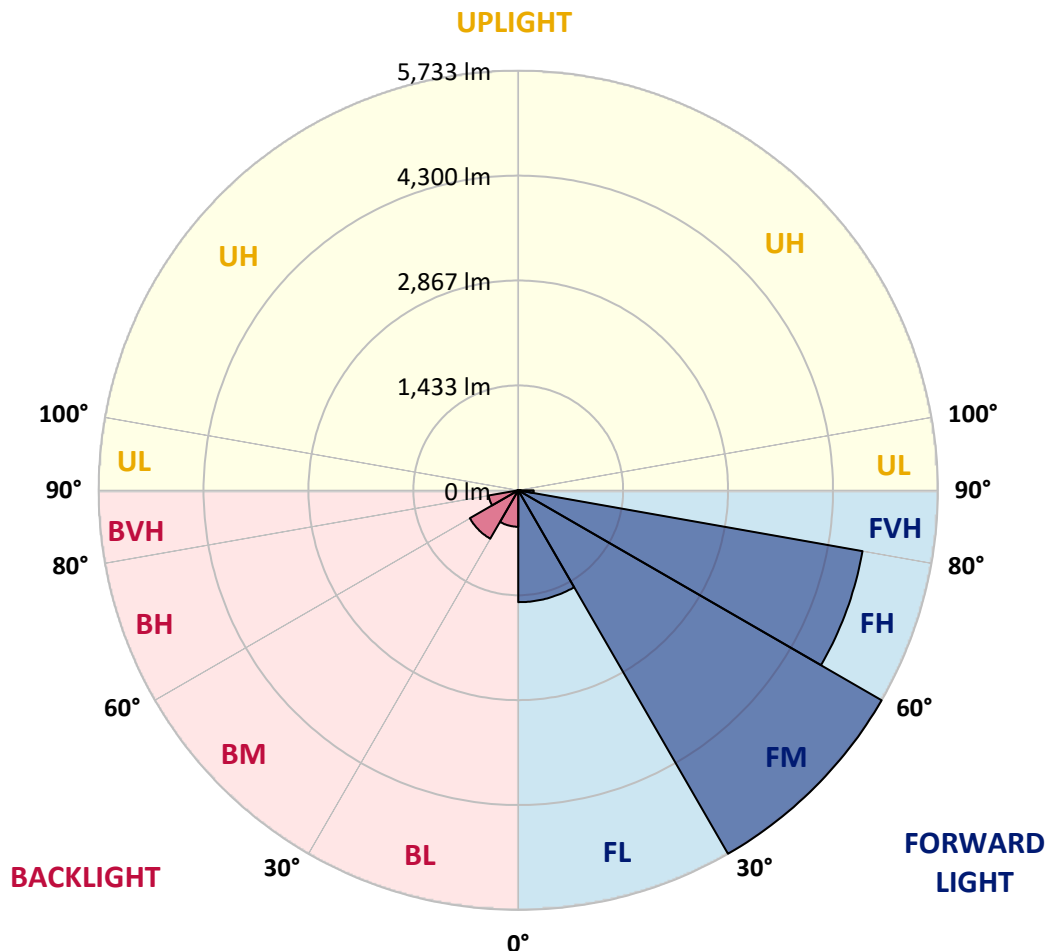
REPORT NUMBER: P324468  
 CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.4	11.0			
FM (30°-60°)	5733.1	41.1			
FH (60°-80°)	4776.4	34.3			G2/5000
FVH (80°-90°)	210.5	1.5			G2/225
BL (0°-30°)	498.2	3.6	B1/500		
BM (30°-60°)	763.7	5.5	B1/1000		
BH (60°-80°)	411.1	2.9	B1/500		G1/500
BVH (80°-90°)	13.6	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: P324468

CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	4970.4	4932.1	4889.8	4751.9	4623.8	4477.2	4357.8	4274.6	4170.3	4034.9	4000.6
5°	4934.7	4893.8	4761.1	4454.1	4185.5	3924.0	3671.8	3524.0	3340.4	3154.3	3108.1
7.5°	4576.3	4533.4	4341.9	3921.4	3559.6	3182.0	2854.6	2651.9	2444.6	2274.3	2183.8
10°	4203.3	4156.4	3941.2	3430.9	2985.3	2644.0	2403.7	2210.2	2014.2	1832.0	1686.7
12.5°	3946.5	3885.1	3651.4	3073.1	2684.9	2453.2	2228.7	1997.0	1731.6	1536.2	1376.4
15°	3838.9	3768.9	3522.0	2935.1	2578.6	2306.6	2014.2	1729.6	1418.7	1194.9	1048.3
17.5°	3922.0	3830.9	3566.2	2925.9	2445.3	2074.9	1705.2	1371.2	1033.8	807.4	703.1
20°	4204.6	4085.1	3749.1	2923.2	2283.5	1799.6	1330.9	953.3	681.3	547.9	493.1
22.5°	4649.5	4491.8	4011.8	2944.3	2116.5	1510.5	961.2	647.6	511.6	442.3	410.0
25°	5186.9	5004.1	4390.1	3018.9	1969.9	1229.2	698.5	511.6	431.7	380.9	353.8
27.5°	5697.9	5549.4	4868.1	3126.5	1856.4	1002.1	567.1	433.7	369.0	335.4	313.6
30°	6208.2	6021.4	5358.6	3254.6	1719.7	848.3	498.4	395.4	330.7	295.1	281.2
32.5°	6579.2	6424.1	5742.8	3347.0	1573.8	748.0	445.6	361.8	309.0	272.6	252.2
35°	7015.6	6840.0	6072.2	3367.5	1480.1	684.6	400.7	325.5	268.0	235.7	213.9
37.5°	7486.9	7268.4	6452.5	3322.6	1406.8	653.6	367.1	309.0	250.2	217.2	194.1
40°	8008.5	7761.6	6817.5	3257.9	1334.9	643.0	341.3	296.4	236.3	202.7	178.9
42.5°	8557.7	8266.6	7133.8	3189.9	1289.3	606.7	338.7	283.9	225.8	189.5	165.7
45°	9019.2	8724.1	7458.6	3167.5	1257.0	567.1	349.9	275.3	218.5	178.9	155.8
47.5°	9386.9	9107.6	7791.3	3217.6	1238.5	530.8	318.9	286.5	214.6	169.7	147.2
50°	9825.9	9509.7	8260.0	3367.5	1211.4	494.5	288.5	328.1	214.6	163.7	140.0
52.5°	10376.5	10063.6	8782.8	3599.9	1157.3	444.3	259.4	328.8	216.5	155.8	130.7
55°	11069.0	10841.9	9529.5	3854.7	1070.8	370.4	224.5	282.6	208.6	141.3	122.1
57.5°	11733.1	11547.6	10210.1	4029.0	955.3	289.2	195.4	227.8	190.8	124.1	108.9
59°	11914.7	11712.0	10459.7	4036.9	868.8	252.2	180.9	188.1	186.8	116.2	101.0
60°	11914.7	11699.5	10531.6	3994.7	806.1	231.7	171.6	167.7	194.7	110.9	96.4
62.5°	11698.8	11396.4	10297.9	3708.8	657.5	197.4	149.9	138.6	174.9	99.7	85.2
65°	11249.9	10809.6	9501.8	3191.9	586.2	180.9	129.4	113.5	121.5	87.8	74.6
67.5°	10501.3	9904.5	8353.7	2578.6	557.8	176.3	111.6	96.4	91.8	75.3	65.4
70°	9182.9	8520.8	6960.1	2027.4	533.4	174.3	93.7	81.2	73.9	63.4	55.5
72.5°	6683.5	5993.0	4941.3	1585.1	518.9	178.2	75.3	68.0	60.7	49.5	42.9
75°	3823.0	3370.8	2777.3	1047.0	442.3	170.3	58.1	56.8	43.6	35.6	29.7
77.5°	1975.2	1915.1	1664.3	402.0	211.9	74.6	38.3	33.0	25.7	21.8	17.8
80°	852.3	843.0	729.5	116.2	56.1	41.6	21.8	13.9	11.9	9.2	7.3
82.5°	294.4	294.4	259.4	38.9	25.1	20.5	2.6	0.0	0.0	0.0	0.0
85°	59.4	66.7	46.9	0.0	8.6	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: P324468  
 CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	3959.0	3879.1	3873.9	3823.7	3761.0	3732.6	3716.1	3745.1	3780.8	3784.7	3838.2
5°	3073.1	2989.2	3024.2	2935.1	2952.9	2935.1	2906.1	2911.3	2927.2	2877.7	2939.1
7.5°	2158.1	2094.7	2135.0	2111.2	2142.9	2155.4	2137.6	2111.2	2033.3	2024.1	2077.5
10°	1626.6	1554.7	1511.8	1466.9	1476.8	1497.3	1490.7	1471.5	1422.0	1424.6	1476.1
12.5°	1307.1	1226.6	1141.4	1031.2	1004.1	1019.3	1004.1	992.9	945.4	949.3	994.9
15°	991.6	925.6	836.4	748.0	699.8	704.4	662.1	632.4	602.7	567.1	594.8
17.5°	669.4	629.1	602.7	576.3	518.9	505.7	452.2	394.8	372.3	355.8	367.7
20°	474.0	452.2	441.7	440.3	407.3	390.8	338.7	303.0	291.8	288.5	295.8
22.5°	396.1	380.3	365.1	356.5	340.0	320.8	281.2	263.4	255.5	251.5	256.8
25°	344.6	332.7	316.9	302.4	295.8	275.3	246.9	233.7	228.4	224.5	227.1
27.5°	306.3	295.8	277.3	268.0	262.7	244.9	220.5	209.9	205.3	204.0	203.3
30°	275.9	266.0	248.9	238.3	229.1	213.2	198.7	188.1	183.5	182.2	180.9
32.5°	245.6	237.7	226.4	215.9	206.0	191.4	178.9	170.3	163.1	161.7	161.1
35°	207.3	199.4	193.4	192.8	183.5	169.7	160.4	149.2	143.3	141.3	141.9
37.5°	184.2	173.6	160.4	165.0	162.4	152.5	140.0	128.7	122.8	121.5	121.5
40°	169.7	158.4	143.3	135.3	143.3	141.3	121.5	110.2	104.3	103.6	102.3
42.5°	155.8	144.6	127.4	114.2	118.2	124.1	105.0	94.4	88.5	87.1	85.2
45°	145.9	134.0	114.9	99.7	91.8	104.3	89.8	76.6	73.3	70.6	69.3
47.5°	136.7	125.4	103.6	86.5	73.3	75.3	72.0	62.7	58.8	56.1	55.5
50°	128.7	116.8	93.7	73.9	60.7	55.5	58.1	49.5	46.2	43.6	42.3
52.5°	119.5	108.3	83.2	64.0	50.8	43.6	44.2	38.9	35.6	33.7	33.0
55°	112.2	101.0	74.6	56.1	44.9	35.6	31.7	30.4	28.4	27.1	26.4
57.5°	102.3	91.8	66.0	47.5	38.3	29.0	24.4	24.4	23.8	22.4	21.8
59°	96.4	87.1	60.7	42.9	35.0	25.1	21.8	22.4	21.8	20.5	19.8
60°	91.8	83.2	56.8	39.6	33.0	23.1	19.8	21.1	20.5	19.1	18.5
62.5°	81.2	75.3	48.9	33.0	29.0	18.5	16.5	17.8	17.8	17.2	16.5
65°	71.3	64.7	41.6	27.7	27.1	15.8	13.2	15.8	16.5	15.2	13.9
67.5°	62.1	55.5	36.3	22.4	25.1	12.5	9.9	13.2	17.8	13.9	12.5
70°	52.8	46.2	28.4	17.8	26.4	8.6	7.9	11.9	21.1	15.2	11.9
72.5°	40.9	35.6	19.8	13.2	28.4	5.9	5.9	9.9	23.8	16.5	11.2
75°	28.4	23.1	11.9	7.9	23.1	4.0	4.0	9.2	22.4	15.2	10.6
77.5°	16.5	12.5	4.0	0.7	11.9	0.0	0.7	6.6	15.8	9.2	4.6
80°	5.9	2.6	0.0	0.0	7.3	0.0	0.0	0.0	1.3	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	3852.1	3941.2	4021.1	4141.9	4285.1	4450.2	4592.1	4744.6	4887.9	4947.3	4988.2
5°	2951.6	3061.8	3190.6	3368.2	3604.5	3895.6	4168.3	4476.6	4808.0	4973.7	5129.5
7.5°	2086.8	2199.0	2358.8	2547.6	2833.4	3180.0	3536.5	3962.3	4411.2	4673.3	4931.4
10°	1500.6	1638.5	1787.7	2045.9	2336.3	2665.1	3032.1	3507.5	4007.9	4298.3	4609.3
12.5°	1021.3	1178.4	1404.2	1693.3	2034.6	2356.8	2675.7	3129.2	3710.1	3998.0	4331.3
15°	612.6	699.8	938.8	1273.5	1692.0	2093.4	2442.6	2897.5	3516.7	3869.2	4215.8
17.5°	377.6	417.9	547.9	822.6	1262.2	1769.9	2248.5	2818.9	3544.4	3973.5	4344.6
20°	301.0	316.9	358.5	485.9	836.4	1413.4	2030.0	2803.1	3770.9	4299.0	4697.1
22.5°	261.4	276.6	304.3	353.2	526.2	1058.2	1822.7	2817.6	4095.7	4786.9	5251.6
25°	230.4	243.6	270.0	310.3	385.5	745.3	1600.9	2882.3	4518.8	5392.2	5886.0
27.5°	206.0	217.2	241.6	278.6	330.7	520.2	1349.4	2960.8	5020.6	6011.5	6498.7
30°	183.5	193.4	215.2	249.5	287.2	400.1	1073.4	3014.3	5522.9	6498.7	6936.4
32.5°	164.4	171.6	191.4	220.5	249.5	318.9	816.0	3005.7	5895.9	6904.0	7251.3
35°	144.6	151.8	169.0	194.1	217.2	263.4	641.7	2845.3	6220.7	7324.5	7611.7
37.5°	122.8	132.0	148.5	171.0	186.8	231.7	518.9	2651.9	6550.2	7805.1	8013.8
40°	104.3	113.5	128.1	152.5	162.4	219.8	398.7	2416.2	6920.5	8342.5	8454.7
42.5°	86.5	95.1	110.2	131.4	153.2	189.5	295.1	2146.9	7276.3	8802.0	8856.8
45°	70.0	78.6	94.4	115.5	163.7	157.1	228.4	1858.4	7563.5	9184.2	9202.1
47.5°	55.5	63.4	79.9	108.9	152.5	125.4	163.1	1631.9	7804.5	9482.6	9435.8
50°	42.9	49.5	66.7	124.8	133.4	103.6	123.5	1556.7	8020.4	9667.5	9546.0
52.5°	33.7	39.6	54.8	116.8	103.6	85.8	103.6	1627.3	8316.1	9820.6	9608.1
55°	27.1	33.0	42.9	66.7	70.6	72.6	88.5	1693.3	8826.4	10179.8	9974.4
57.5°	22.4	28.4	35.0	46.9	53.5	61.4	78.6	1700.6	9427.8	10776.5	10582.5
59°	20.5	25.7	31.7	41.6	46.9	56.1	73.9	1661.0	9639.7	10993.7	10896.7
60°	19.1	24.4	29.7	38.3	43.6	52.8	71.3	1623.3	9649.0	10985.8	11030.7
62.5°	16.5	21.8	26.4	32.3	37.0	44.9	64.0	1484.1	9258.2	10626.0	10950.2
65°	14.5	19.1	23.8	27.7	31.7	40.3	58.1	1229.9	8590.7	10045.7	10398.9
67.5°	13.2	16.5	21.8	24.4	28.4	35.6	51.5	876.7	7756.9	9336.1	9565.1
70°	11.9	15.8	19.8	22.4	25.7	31.0	44.2	503.7	6550.2	8297.0	8460.0
72.5°	11.2	15.2	17.8	21.1	23.1	27.7	40.3	237.0	4796.1	6646.5	7072.4
75°	9.9	13.9	16.5	19.8	21.8	25.1	34.3	113.5	3189.9	4810.0	5293.9
77.5°	5.9	11.2	15.2	17.8	19.1	21.8	28.4	65.4	2036.0	3329.2	3921.4
80°	0.0	4.0	11.2	15.2	16.5	18.5	21.8	51.5	1089.3	1901.9	2282.9
82.5°	0.0	0.0	7.9	11.9	11.2	12.5	16.5	32.3	491.2	1243.1	1400.9
85°	0.0	0.0	2.6	9.2	7.9	5.9	11.2	11.2	107.6	629.1	784.9
87.5°	0.0	0.0	0.0	0.7	4.0	2.6	4.6	1.3	0.7	46.9	190.1
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: P324468

CATALOG NUMBER: GAN-SA4A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3	4539.3
2.5°	5131.5	5180.3	5262.8	5301.8	5282.6	5201.4	5104.4	5005.4	4947.3	4970.4
5°	5447.0	5698.6	5843.8	5892.0	5811.4	5629.2	5390.9	5076.7	4965.1	4934.7
7.5°	5447.0	5920.4	6220.1	6272.9	6093.3	5736.2	5289.2	4798.7	4635.7	4576.3
10°	5255.6	5899.9	6317.8	6401.6	6150.8	5616.7	5017.9	4458.1	4264.7	4203.3
12.5°	5039.7	5733.5	6173.9	6289.4	6083.4	5497.9	4829.8	4227.7	3999.9	3946.5
15°	4907.0	5528.9	5893.3	5977.1	5890.0	5428.5	4784.9	4158.4	3890.4	3838.9
17.5°	4954.5	5370.4	5501.8	5550.7	5609.4	5404.1	4907.0	4310.2	3970.9	3922.0
20°	5133.4	5203.4	5135.4	5196.8	5355.3	5427.9	5198.1	4677.3	4270.0	4204.6
22.5°	5437.1	5116.9	4926.2	4950.6	5143.4	5506.4	5643.1	5201.4	4731.4	4649.5
25°	5791.0	5186.9	4810.0	4788.2	4986.2	5610.1	6049.8	5771.8	5277.4	5186.9
27.5°	6235.9	5344.0	4786.2	4764.4	4931.4	5707.1	6387.8	6335.6	5852.4	5697.9
30°	6579.2	5498.5	4856.8	4806.7	4986.2	5774.5	6659.1	6814.2	6310.5	6208.2
32.5°	6825.5	5680.7	4971.7	4899.1	5140.7	5890.7	6868.4	7252.6	6734.4	6579.2
35°	7012.9	5878.8	5157.2	5037.7	5353.3	6066.9	7064.4	7719.3	7185.2	7015.6
37.5°	7188.5	6156.7	5447.0	5304.4	5686.7	6350.8	7271.7	8248.8	7689.6	7486.9
40°	7433.5	6471.6	5894.0	5767.2	6247.1	6737.7	7530.5	8800.7	8263.3	8008.5
42.5°	7678.4	6809.6	6351.5	6385.8	6946.3	7207.7	7864.6	9384.3	8829.7	8557.7
45°	7902.2	7158.2	7003.0	7161.5	7595.2	7723.3	8196.6	9721.6	9281.9	9019.2
47.5°	8101.6	7593.9	7650.7	8072.5	8333.3	8190.0	8444.8	10012.7	9618.6	9386.9
50°	8333.3	8157.7	8504.3	9101.0	9182.9	8612.5	8670.6	10357.3	10012.1	9825.9
52.5°	8586.8	8751.8	9449.6	9975.8	9949.4	9071.3	8897.7	10743.5	10551.4	10376.5
55°	8874.6	9231.8	10282.1	10794.4	10771.9	9583.6	9274.0	11220.8	11227.4	11069.0
57.5°	9301.7	9645.0	10847.2	11456.5	11494.1	10175.1	9911.7	11755.6	11838.8	11733.1
59°	9608.1	9913.1	11071.0	11733.1	11886.3	10632.6	10377.8	12065.9	12011.1	11914.7
60°	9835.2	10083.4	11181.9	11877.7	12114.0	10942.9	10721.8	12248.1	12031.5	11914.7
62.5°	10397.0	10454.4	11381.9	12041.4	12376.1	11632.1	11689.6	12558.3	11889.6	11698.8
65°	10659.0	10688.7	11379.3	11748.3	12122.6	12168.8	12567.6	12567.6	11543.0	11249.9
67.5°	10549.5	10406.2	10814.8	10776.5	11150.2	11850.0	12897.7	12106.8	10880.2	10501.3
70°	9658.2	9107.0	8925.4	8941.9	9227.8	10307.2	12244.1	10750.8	9625.9	9182.9
72.5°	8036.2	6713.9	6265.6	6777.3	6851.9	7921.3	10434.6	8096.3	7098.8	6683.5
75°	6463.7	4732.7	4003.9	4543.9	4670.7	5796.9	8071.8	5042.3	4146.5	3823.0
77.5°	4643.6	3397.2	2873.0	2835.4	2999.1	3676.5	5727.6	2537.7	2116.5	1975.2
80°	2638.0	2236.0	2407.6	2271.6	2354.2	2298.7	2721.2	1113.0	911.7	852.3
82.5°	1592.3	1321.7	1431.2	1191.6	1507.8	1313.1	1048.3	356.5	309.6	294.4
85°	1035.8	722.2	376.3	252.2	519.6	839.1	234.4	97.0	74.6	59.4
87.5°	357.1	184.2	18.5	7.9	55.5	156.5	8.6	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

(END OF REPORT)