

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: P324408

Luminaire Tested: **GAN-SA4C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324408
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-SA4C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 17688 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

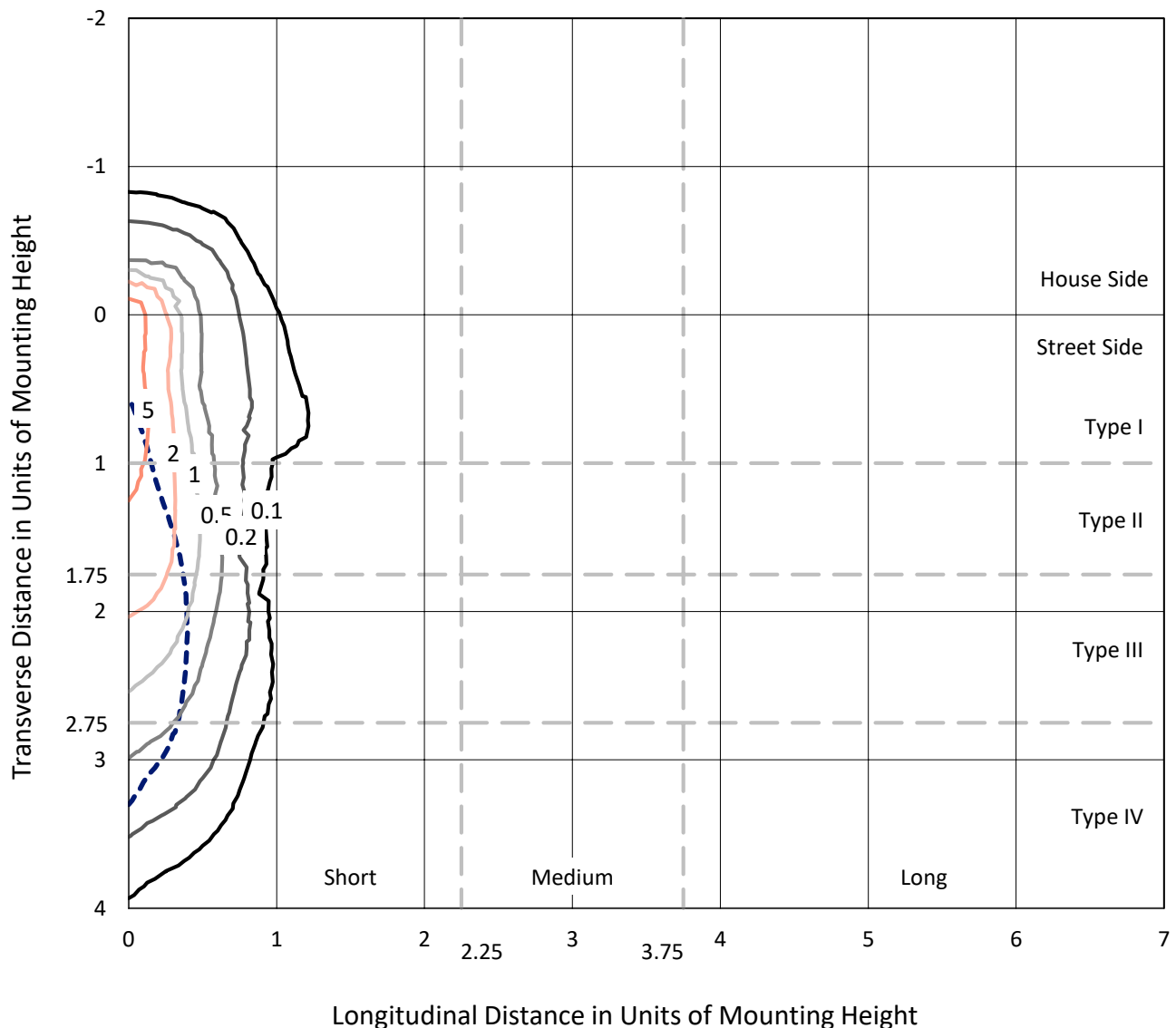
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

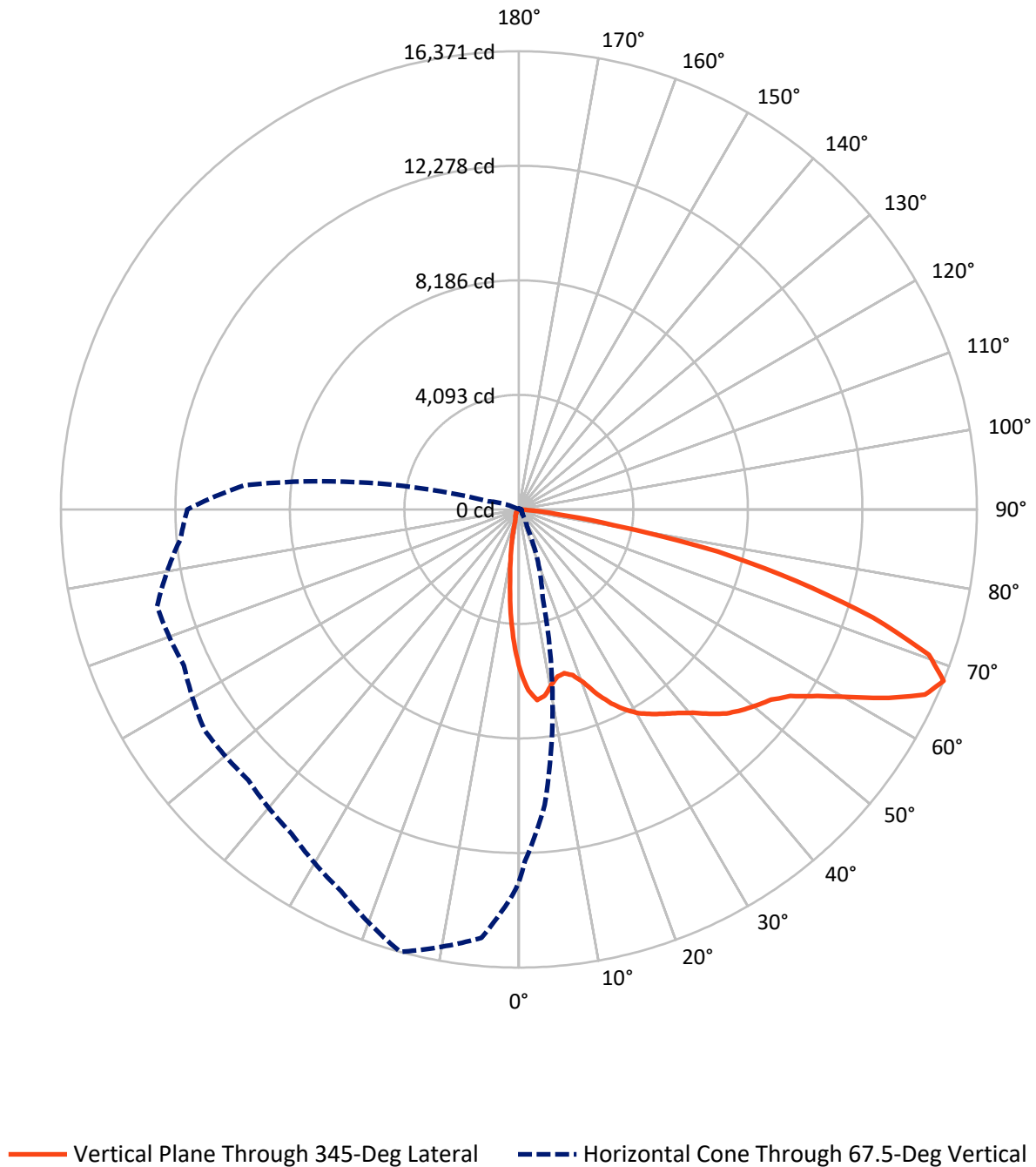
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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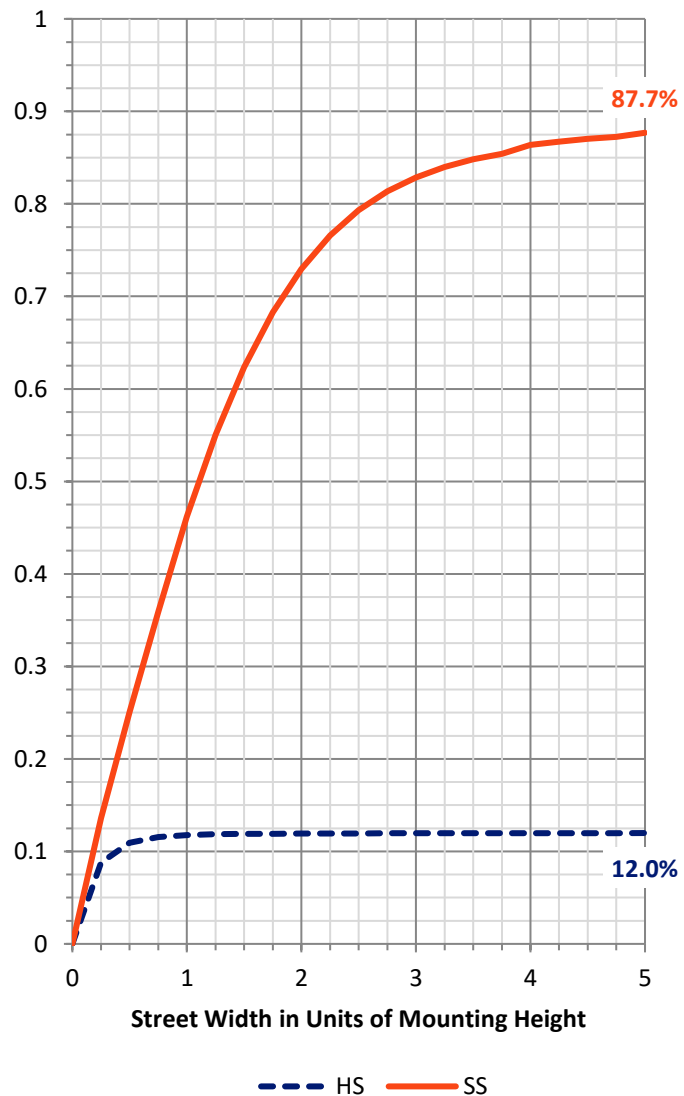
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2140.8	0.0	2140.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15547.2	0.0	15547.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	17688.0	0.0	17688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	2.5
10°-20°	880.2	5.0
20°-30°	1249.9	7.1
30°-40°	1846.2	10.4
40°-50°	2662.6	15.1
50°-60°	3737.8	21.1
60°-70°	4357.1	24.6
70°-80°	2227.5	12.6
80°-90°	284.5	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°	17688.0	100.0
0°-180°	17688.0	100.0

Coefficient of Utilization



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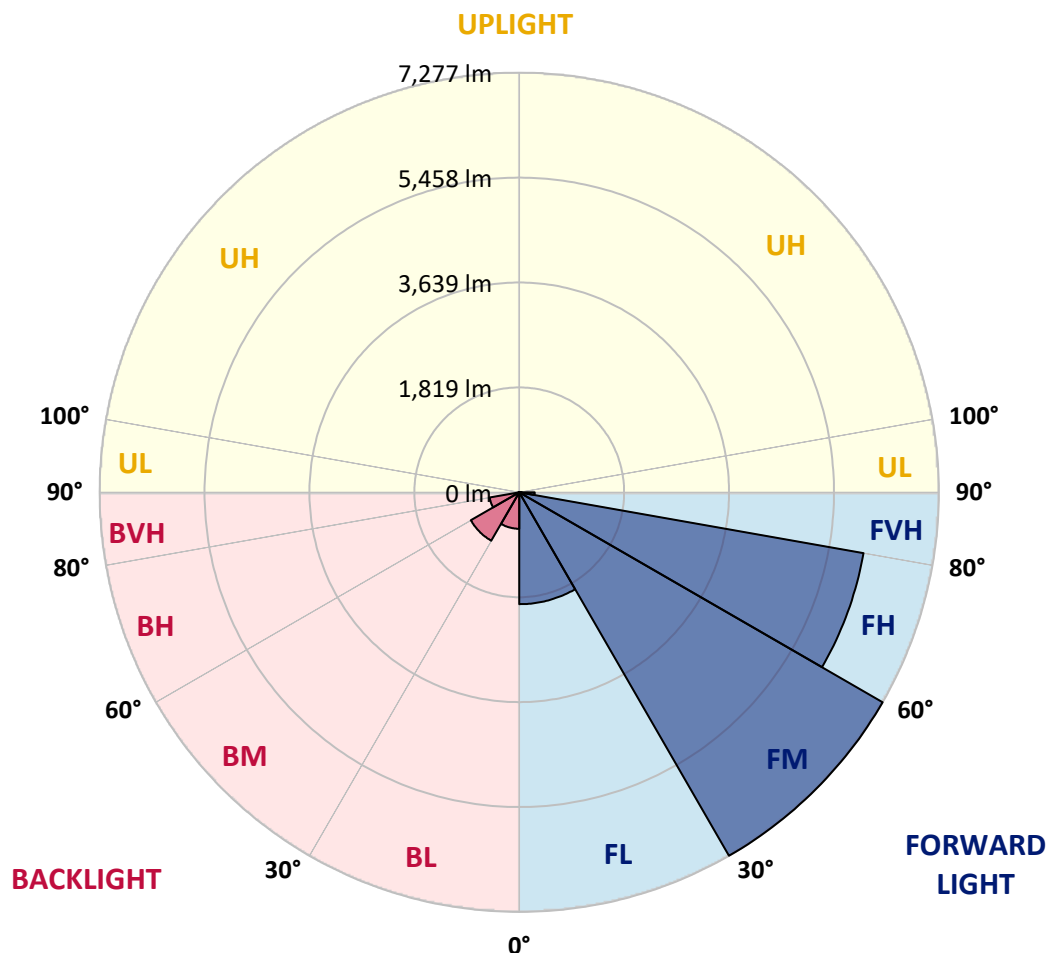
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1940.0	11.0			
FM	(30°-60°)	7277.1	41.1			
FH	(60°-80°)	6062.8	34.3			G3/7500
FVH	(80°-90°)	267.2	1.5			G3/500
BL	(0°-30°)	632.3	3.6	B2/1000		
BM	(30°-60°)	969.4	5.5	B1/1000		
BH	(60°-80°)	521.8	2.9	B2/1000		G2/1000
BVH	(80°-90°)	17.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8
2.5°	6309.0	6260.4	6206.8	6031.7	5869.1	5683.1	5531.4	5425.8	5293.4	5121.6	5078.1
5°	6263.8	6211.8	6043.4	5653.7	5312.7	4980.9	4660.7	4473.0	4240.1	4003.8	3945.1
7.5°	5808.8	5754.3	5511.3	4977.5	4518.3	4039.0	3623.4	3366.1	3103.0	2886.8	2772.0
10°	5335.3	5275.8	5002.6	4354.9	3789.3	3356.0	3051.0	2805.5	2556.6	2325.3	2141.0
12.5°	5009.3	4931.4	4634.8	3900.7	3408.0	3113.9	2829.0	2534.8	2198.0	1949.9	1747.2
15°	4872.8	4783.9	4470.5	3725.6	3273.1	2927.8	2556.6	2195.5	1800.8	1516.7	1330.7
17.5°	4978.3	4862.7	4526.7	3713.9	3103.8	2633.7	2164.5	1740.4	1312.2	1024.8	892.4
20°	5337.0	5185.3	4758.8	3710.5	2898.5	2284.3	1689.3	1210.0	864.8	695.5	626.0
22.5°	5901.8	5701.5	5092.3	3737.3	2686.5	1917.3	1220.1	822.0	649.4	561.4	520.4
25°	6583.9	6351.8	5572.5	3832.0	2500.5	1560.3	886.6	649.4	548.0	483.5	449.1
27.5°	7232.5	7043.9	6179.1	3968.6	2356.4	1272.0	719.8	550.5	468.4	425.7	398.0
30°	7880.2	7643.1	6801.7	4131.2	2182.9	1076.8	632.7	501.9	419.8	374.6	357.0
32.5°	8351.1	8154.2	7289.4	4248.5	1997.7	949.4	565.6	459.2	392.2	346.1	320.1
35°	8905.0	8682.1	7707.6	4274.4	1878.7	869.0	508.6	413.1	340.2	299.2	271.5
37.5°	9503.3	9226.0	8190.2	4217.5	1785.7	829.6	465.9	392.2	317.6	275.7	246.4
40°	10165.3	9851.9	8653.6	4135.3	1694.4	816.2	433.2	376.2	300.0	257.3	227.1
42.5°	10862.5	10493.0	9055.0	4049.0	1636.5	770.1	429.9	360.3	286.6	240.5	210.3
45°	11448.2	11073.7	9467.3	4020.5	1595.5	719.8	444.1	349.4	277.4	227.1	197.8
47.5°	11915.0	11560.5	9889.6	4084.2	1572.0	673.7	404.7	363.7	272.3	215.4	186.9
50°	12472.2	12070.9	10484.6	4274.4	1537.7	627.6	366.2	416.5	272.3	207.8	177.6
52.5°	13171.1	12773.9	11148.3	4569.4	1468.9	563.9	329.3	417.3	274.9	197.8	165.9
55°	14050.1	13761.9	12096.0	4892.9	1359.2	470.1	284.9	358.6	264.8	179.3	155.0
57.5°	14893.1	14657.6	12959.9	5114.1	1212.5	367.0	248.0	289.1	242.2	157.5	138.3
59°	15123.6	14866.3	13276.7	5124.1	1102.8	320.1	229.6	238.8	237.1	147.5	128.2
60°	15123.6	14850.4	13368.0	5070.5	1023.2	294.1	217.9	212.8	247.2	140.8	122.3
62.5°	14849.5	14465.8	13071.4	4707.7	834.6	250.6	190.2	176.0	222.1	126.5	108.1
65°	14279.7	13720.8	12060.8	4051.6	744.1	229.6	164.2	144.1	154.2	111.4	94.7
67.5°	13329.5	12572.0	10603.6	3273.1	708.1	223.7	141.6	122.3	116.5	95.5	83.0
70°	11656.1	10815.6	8834.6	2573.4	677.1	221.2	119.0	103.1	93.9	80.4	70.4
72.5°	8483.5	7607.0	6272.2	2011.9	658.6	226.2	95.5	86.3	77.1	62.8	54.5
75°	4852.6	4278.6	3525.3	1329.0	561.4	216.2	73.7	72.1	55.3	45.2	37.7
77.5°	2507.2	2430.9	2112.5	510.3	269.0	94.7	48.6	41.9	32.7	27.7	22.6
80°	1081.8	1070.1	925.9	147.5	71.2	52.8	27.7	17.6	15.1	11.7	9.2
82.5°	373.7	373.7	329.3	49.4	31.8	26.0	3.4	0.0	0.0	0.0	0.0
85°	75.4	84.6	59.5	0.0	10.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8
2.5°	5025.3	4923.9	4917.2	4853.5	4773.9	4737.8	4716.9	4753.8	4799.0	4804.0	4871.9
5°	3900.7	3794.3	3838.7	3725.6	3748.2	3725.6	3688.7	3695.4	3715.5	3652.7	3730.6
7.5°	2739.3	2658.9	2710.0	2679.8	2720.0	2735.9	2713.3	2679.8	2580.9	2569.2	2637.1
10°	2064.7	1973.4	1918.9	1862.0	1874.5	1900.5	1892.1	1867.8	1805.0	1808.3	1873.7
12.5°	1659.2	1556.9	1448.8	1308.9	1274.5	1293.8	1274.5	1260.3	1200.0	1205.0	1262.8
15°	1258.6	1174.8	1061.7	949.4	888.2	894.1	840.5	802.8	765.1	719.8	755.0
17.5°	849.7	798.6	765.1	731.5	658.6	641.9	574.0	501.1	472.6	451.7	466.7
20°	601.7	574.0	560.6	558.9	517.0	496.1	429.9	384.6	370.4	366.2	375.4
22.5°	502.8	482.7	463.4	452.5	431.6	407.2	357.0	334.3	324.3	319.3	326.0
25°	437.4	422.3	402.2	383.8	375.4	349.4	313.4	296.6	289.9	284.9	288.3
27.5°	388.8	375.4	351.9	340.2	333.5	310.9	279.9	266.5	260.6	258.9	258.1
30°	350.3	337.7	315.9	302.5	290.8	270.7	252.2	238.8	233.0	231.3	229.6
32.5°	311.7	301.7	287.4	274.0	261.4	243.0	227.1	216.2	207.0	205.3	204.5
35°	263.1	253.1	245.5	244.7	233.0	215.4	203.6	189.4	181.8	179.3	180.2
37.5°	233.8	220.4	203.6	209.5	206.1	193.6	177.6	163.4	155.9	154.2	154.2
40°	215.4	201.1	181.8	171.8	181.8	179.3	154.2	139.9	132.4	131.6	129.9
42.5°	197.8	183.5	161.7	145.0	150.0	157.5	133.2	119.8	112.3	110.6	108.1
45°	185.2	170.1	145.8	126.5	116.5	132.4	114.0	97.2	93.0	89.7	88.0
47.5°	173.5	159.2	131.6	109.8	93.0	95.5	91.3	79.6	74.6	71.2	70.4
50°	163.4	148.3	119.0	93.9	77.1	70.4	73.7	62.8	58.7	55.3	53.6
52.5°	151.7	137.4	105.6	81.3	64.5	55.3	56.1	49.4	45.2	42.7	41.9
55°	142.5	128.2	94.7	71.2	57.0	45.2	40.2	38.5	36.0	34.4	33.5
57.5°	129.9	116.5	83.8	60.3	48.6	36.9	31.0	31.0	30.2	28.5	27.7
59°	122.3	110.6	77.1	54.5	44.4	31.8	27.7	28.5	27.7	26.0	25.1
60°	116.5	105.6	72.1	50.3	41.9	29.3	25.1	26.8	26.0	24.3	23.5
62.5°	103.1	95.5	62.0	41.9	36.9	23.5	20.9	22.6	22.6	21.8	20.9
65°	90.5	82.1	52.8	35.2	34.4	20.1	16.8	20.1	20.9	19.3	17.6
67.5°	78.8	70.4	46.1	28.5	31.8	15.9	12.6	16.8	22.6	17.6	15.9
70°	67.0	58.7	36.0	22.6	33.5	10.9	10.1	15.1	26.8	19.3	15.1
72.5°	52.0	45.2	25.1	16.8	36.0	7.5	7.5	12.6	30.2	20.9	14.2
75°	36.0	29.3	15.1	10.1	29.3	5.0	5.0	11.7	28.5	19.3	13.4
77.5°	20.9	15.9	5.0	0.8	15.1	0.0	0.8	8.4	20.1	11.7	5.9
80°	7.5	3.4	0.0	0.0	9.2	0.0	0.0	0.0	1.7	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°	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8
2.5°	4889.5	5002.6	5104.0	5257.4	5439.2	5648.7	5828.9	6022.4	6204.3	6279.7	6331.6
5°	3746.5	3886.5	4049.9	4275.3	4575.3	4944.8	5290.9	5682.2	6102.9	6313.2	6511.0
7.5°	2648.8	2791.3	2994.0	3233.7	3596.5	4036.5	4489.0	5029.5	5599.3	5931.9	6259.6
10°	1904.7	2079.8	2269.2	2596.8	2965.6	3382.9	3848.8	4452.1	5087.3	5456.0	5850.7
12.5°	1296.3	1495.8	1782.3	2149.4	2582.6	2991.5	3396.3	3971.9	4709.4	5074.7	5497.9
15°	777.6	888.2	1191.6	1616.4	2147.7	2657.2	3100.5	3677.8	4463.8	4911.3	5351.2
17.5°	479.3	530.4	695.5	1044.1	1602.2	2246.6	2854.1	3578.1	4499.0	5043.7	5514.6
20°	382.1	402.2	455.0	616.7	1061.7	1794.1	2576.7	3558.0	4786.4	5456.8	5962.1
22.5°	331.8	351.1	386.3	448.3	667.9	1343.3	2313.6	3576.4	5198.7	6076.1	6666.0
25°	292.4	309.2	342.7	393.8	489.4	946.1	2032.1	3658.5	5735.9	6844.5	7471.3
27.5°	261.4	275.7	306.7	353.6	419.8	660.3	1712.8	3758.3	6372.7	7630.5	8248.9
30°	233.0	245.5	273.2	316.7	364.5	507.8	1362.5	3826.1	7010.4	8248.9	8804.5
32.5°	208.7	217.9	243.0	279.9	316.7	404.7	1035.7	3815.2	7483.8	8763.4	9204.2
35°	183.5	192.7	214.5	246.4	275.7	334.3	814.5	3611.6	7896.1	9297.2	9661.7
37.5°	155.9	167.6	188.5	217.0	237.1	294.1	658.6	3366.1	8314.3	9907.2	10172.0
40°	132.4	144.1	162.6	193.6	206.1	279.0	506.1	3066.9	8784.4	10589.3	10731.8
42.5°	109.8	120.7	139.9	166.8	194.4	240.5	374.6	2725.1	9236.0	11172.6	11242.1
45°	88.8	99.7	119.8	146.6	207.8	199.4	289.9	2358.9	9600.5	11657.7	11680.4
47.5°	70.4	80.4	101.4	138.3	193.6	159.2	207.0	2071.4	9906.4	12036.5	11977.0
50°	54.5	62.8	84.6	158.4	169.3	131.6	156.7	1975.9	10180.4	12271.1	12116.9
52.5°	42.7	50.3	69.6	148.3	131.6	108.9	131.6	2065.6	10555.8	12465.5	12195.7
55°	34.4	41.9	54.5	84.6	89.7	92.2	112.3	2149.4	11203.6	12921.4	12660.8
57.5°	28.5	36.0	44.4	59.5	67.9	77.9	99.7	2158.6	11966.9	13678.9	13432.5
59°	26.0	32.7	40.2	52.8	59.5	71.2	93.9	2108.3	12235.9	13954.6	13831.4
60°	24.3	31.0	37.7	48.6	55.3	67.0	90.5	2060.6	12247.7	13944.5	14001.5
62.5°	20.9	27.7	33.5	41.1	46.9	57.0	81.3	1883.7	11751.6	13487.9	13899.3
65°	18.4	24.3	30.2	35.2	40.2	51.1	73.7	1561.1	10904.4	12751.3	13199.6
67.5°	16.8	20.9	27.7	31.0	36.0	45.2	65.4	1112.8	9846.1	11850.5	12141.2
70°	15.1	20.1	25.1	28.5	32.7	39.4	56.1	639.4	8314.3	10531.5	10738.5
72.5°	14.2	19.3	22.6	26.8	29.3	35.2	51.1	300.8	6087.8	8436.6	8977.1
75°	12.6	17.6	20.9	25.1	27.7	31.8	43.6	144.1	4049.0	6105.4	6719.6
77.5°	7.5	14.2	19.3	22.6	24.3	27.7	36.0	83.0	2584.3	4225.8	4977.5
80°	0.0	5.0	14.2	19.3	20.9	23.5	27.7	65.4	1382.6	2414.2	2897.7
82.5°	0.0	0.0	10.1	15.1	14.2	15.9	20.9	41.1	623.4	1577.9	1778.2
85°	0.0	0.0	3.4	11.7	10.1	7.5	14.2	14.2	136.6	798.6	996.3
87.5°	0.0	0.0	0.0	0.8	5.0	3.4	5.9	1.7	0.8	59.5	241.3
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: P324408

CATALOG NUMBER: GAN-SA4C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8	5761.8
2.5°	6513.5	6575.5	6680.2	6729.7	6705.4	6602.3	6479.1	6353.4	6279.7	6309.0
5°	6914.0	7233.3	7417.6	7478.8	7376.6	7145.3	6842.8	6443.9	6302.3	6263.8
7.5°	6914.0	7514.9	7895.3	7962.3	7734.4	7281.1	6713.8	6091.2	5884.2	5808.8
10°	6671.0	7488.9	8019.3	8125.7	7807.3	7129.4	6369.4	5658.8	5413.2	5335.3
12.5°	6397.0	7277.7	7836.6	7983.3	7721.8	6978.6	6130.5	5366.3	5077.2	5009.3
15°	6228.6	7017.9	7480.5	7586.9	7476.3	6890.6	6073.6	5278.3	4938.1	4872.8
17.5°	6288.9	6816.8	6983.6	7045.6	7120.2	6859.6	6228.6	5471.1	5040.3	4978.3
20°	6516.0	6604.8	6518.5	6596.4	6797.6	6889.7	6598.1	5937.0	5419.9	5337.0
22.5°	6901.5	6495.1	6252.9	6283.9	6528.6	6989.4	7162.9	6602.3	6005.7	5901.8
25°	7350.6	6583.9	6105.4	6077.7	6329.1	7121.0	7679.1	7326.3	6698.7	6583.9
27.5°	7915.4	6783.3	6075.2	6047.6	6259.6	7244.2	8108.1	8041.9	7428.5	7232.5
30°	8351.1	6979.4	6164.9	6101.2	6329.1	7329.7	8452.5	8649.5	8010.1	7880.2
32.5°	8663.7	7210.7	6310.7	6218.5	6525.2	7477.1	8718.2	9205.9	8548.1	8351.1
35°	8901.7	7462.1	6546.2	6394.5	6795.0	7700.9	8967.0	9798.3	9120.4	8905.0
37.5°	9124.6	7814.8	6914.0	6733.0	7218.2	8061.2	9230.2	10470.3	9760.6	9503.3
40°	9435.5	8214.6	7481.3	7320.4	7929.6	8552.2	9558.6	11170.9	10488.8	10165.3
42.5°	9746.3	8643.6	8062.0	8105.6	8817.0	9148.9	9982.7	11911.6	11207.8	10862.5
45°	10030.4	9086.0	8889.1	9090.2	9640.8	9803.3	10404.1	12339.8	11781.8	11448.2
47.5°	10283.5	9639.1	9711.2	10246.6	10577.6	10395.8	10719.2	12709.4	12209.1	11915.0
50°	10577.6	10354.7	10794.6	11552.2	11656.1	10932.1	11005.8	13146.8	12708.5	12472.2
52.5°	10899.4	11108.9	11994.6	12662.5	12628.9	11514.4	11294.1	13637.0	13393.2	13171.1
55°	11264.7	11718.1	13051.3	13701.5	13673.0	12164.7	11771.7	14242.9	14251.2	14050.1
57.5°	11806.9	12242.6	13768.6	14542.0	14589.8	12915.5	12581.2	14921.6	15027.2	14893.1
59°	12195.7	12582.9	14052.6	14893.1	15087.5	13496.2	13172.8	15315.4	15245.9	15123.6
60°	12484.0	12799.0	14193.4	15076.6	15376.6	13890.1	13609.4	15546.7	15271.9	15123.6
62.5°	13197.1	13270.0	14447.3	15284.4	15709.3	14764.9	14837.8	15940.6	15091.7	14849.5
65°	13529.7	13567.5	14444.0	14912.4	15387.5	15446.2	15952.3	15952.3	14651.8	14279.7
67.5°	13390.6	13208.8	13727.5	13678.9	14153.2	15041.4	16371.3	15367.4	13810.5	13329.5
70°	12259.4	11559.7	11329.3	11350.2	11713.0	13083.1	15541.7	13646.2	12218.3	11656.1
72.5°	10200.5	8522.1	7953.1	8602.5	8697.2	10054.7	13244.8	10276.8	9010.6	8483.5
75°	8204.5	6007.4	5082.2	5767.7	5928.6	7358.2	10245.8	6400.4	5263.2	4852.6
77.5°	5894.2	4312.2	3646.8	3599.1	3806.9	4666.6	7270.2	3221.1	2686.5	2507.2
80°	3348.5	2838.2	3056.1	2883.4	2988.2	2917.8	3454.1	1412.8	1157.2	1081.8
82.5°	2021.2	1677.6	1816.7	1512.5	1913.9	1666.7	1330.7	452.5	393.0	373.7
85°	1314.8	916.7	477.6	320.1	659.5	1065.1	297.5	123.2	94.7	75.4
87.5°	453.3	233.8	23.5	10.1	70.4	198.6	10.9	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)