

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: P324412

Luminaire Tested: **GAN-SA8C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324412
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-SA8C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 35143 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

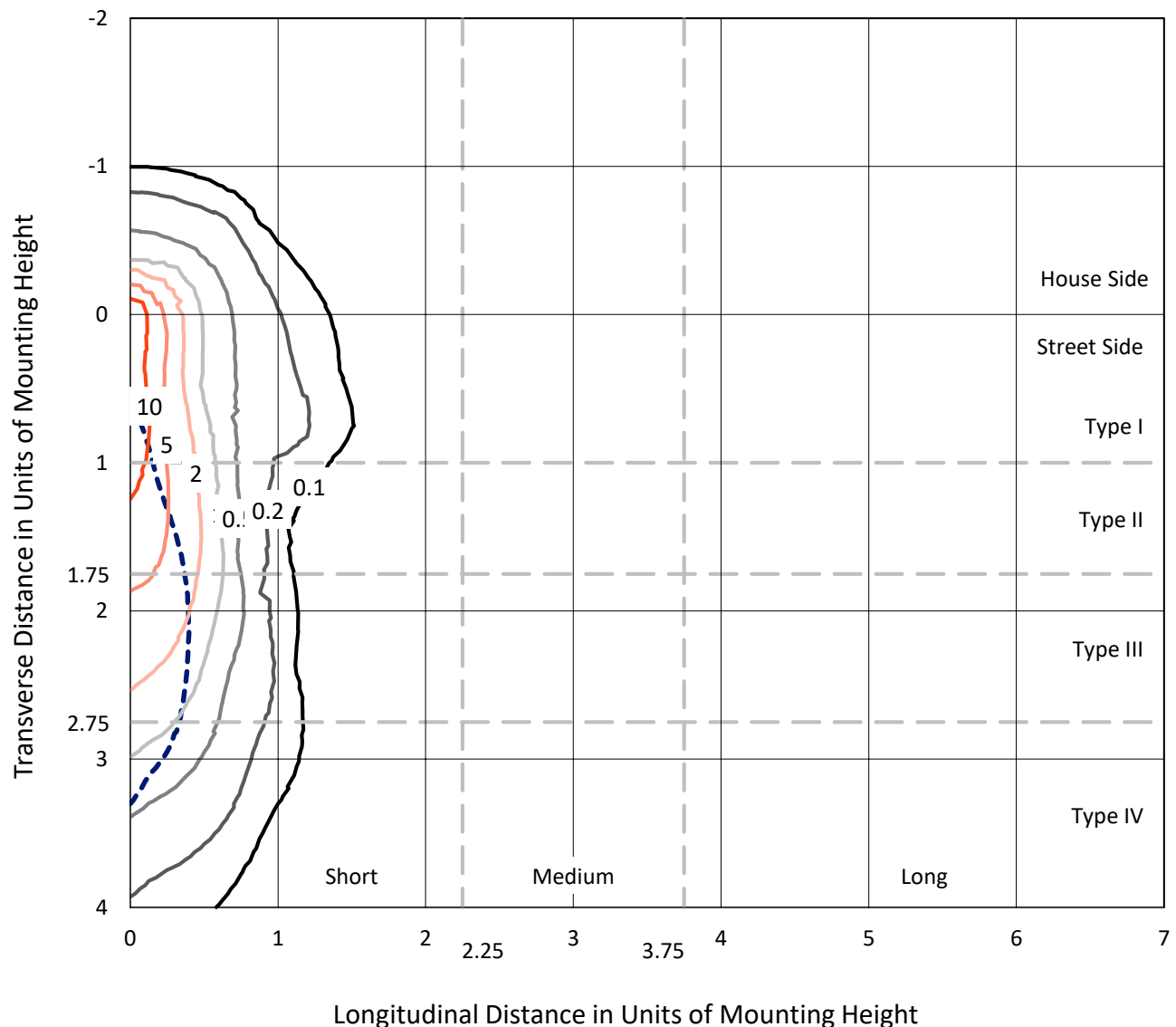
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

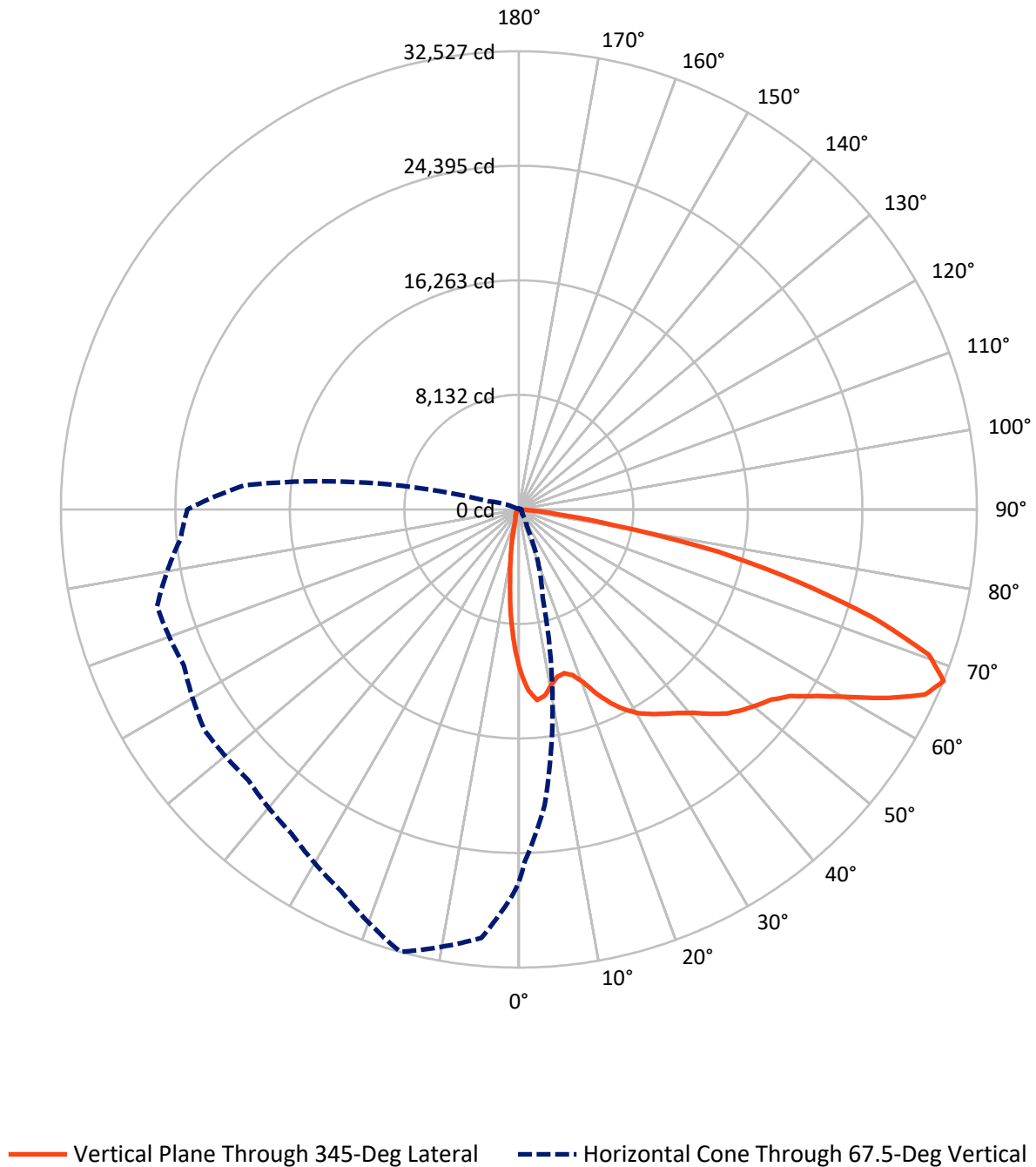
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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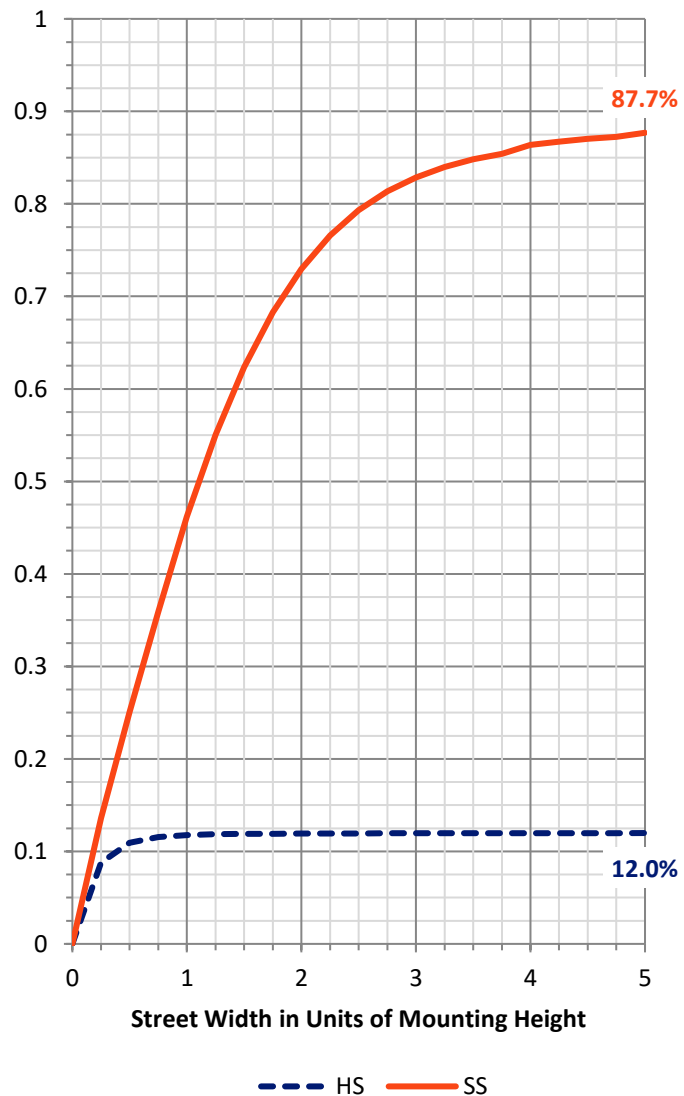
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4253.5	0.0	4253.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	30889.5	0.0	30889.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	35143.0	0.0	35143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.6	2.5
10°-20°	1748.8	5.0
20°-30°	2483.4	7.1
30°-40°	3668.1	10.4
40°-50°	5290.2	15.1
50°-60°	7426.3	21.1
60°-70°	8656.9	24.6
70°-80°	4425.6	12.6
80°-90°	565.2	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°	35143.0	100.0
0°-180°	35143.0	100.0

Coefficient of Utilization



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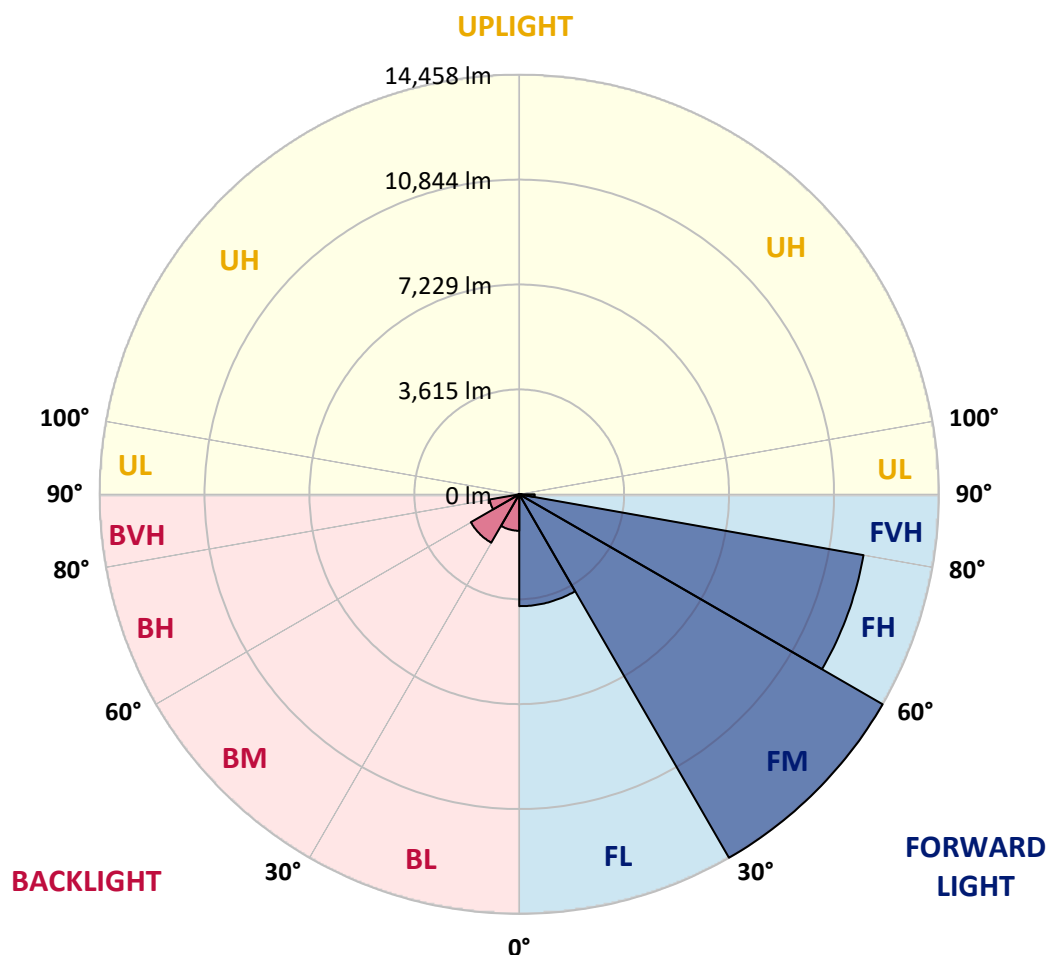
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3854.5	11.0			
FM	(30°-60°)	14458.4	41.1			
FH	(60°-80°)	12045.8	34.3			G5
FVH	(80°-90°)	530.9	1.5			G4/750
BL	(0°-30°)	1256.3	3.6	B3/2500		
BM	(30°-60°)	1926.1	5.5	B2/2500		
BH	(60°-80°)	1036.7	2.9	B3/2500		G3/2500
BVH	(80°-90°)	34.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	12534.9	12438.4	12331.8	11983.9	11660.9	11291.3	10989.9	10780.1	10517.1	10175.8	10089.2
5°	12445.0	12341.8	12007.2	11233.0	10555.4	9896.1	9260.1	8887.2	8424.3	7954.8	7838.3
7.5°	11541.0	11432.8	10950.0	9889.4	8977.1	8024.8	7199.0	6687.9	6165.1	5735.5	5507.4
10°	10600.3	10482.1	9939.4	8652.4	7528.6	6667.9	6061.9	5574.0	5079.6	4620.1	4253.8
12.5°	9952.7	9797.9	9208.5	7750.1	6771.1	6186.7	5620.7	5036.3	4367.0	3874.2	3471.3
15°	9681.3	9504.8	8882.2	7402.1	6503.1	5817.1	5079.6	4362.0	3577.8	3013.4	2643.8
17.5°	9891.1	9661.3	8993.7	7378.8	6166.7	5232.7	4300.4	3458.0	2607.2	2036.2	1773.1
20°	10603.7	10302.3	9454.9	7372.1	5758.8	4538.5	3356.4	2404.1	1718.2	1381.9	1243.7
22.5°	11725.8	11327.9	10117.5	7425.4	5337.6	3809.3	2424.1	1633.3	1290.3	1115.5	1033.9
25°	13081.0	12619.8	11071.5	7613.5	4968.0	3100.0	1761.5	1290.3	1088.8	960.6	892.4
27.5°	14369.6	13995.0	12276.9	7884.9	4681.7	2527.3	1430.1	1093.8	930.7	845.8	790.8
30°	15656.6	15185.4	13513.9	8207.9	4337.0	2139.4	1257.0	997.3	834.1	744.2	709.2
32.5°	16592.3	16201.0	14482.9	8441.0	3969.1	1886.3	1123.8	912.4	779.2	687.6	636.0
35°	17692.8	17249.9	15313.6	8492.6	3732.7	1726.5	1010.6	820.8	675.9	594.4	539.4
37.5°	18881.5	18330.4	16272.6	8379.4	3547.9	1648.2	925.7	779.2	631.0	547.7	489.5
40°	20196.8	19574.1	17193.3	8216.2	3366.4	1621.6	860.7	747.5	596.0	511.1	451.2
42.5°	21581.9	20847.7	17990.8	8044.7	3251.5	1530.0	854.1	715.9	569.4	477.8	417.9
45°	22745.7	22001.5	18809.9	7988.1	3169.9	1430.1	882.4	694.3	551.1	451.2	392.9
47.5°	23673.0	22968.8	19649.0	8114.7	3123.3	1338.6	804.1	722.6	541.1	427.9	371.3
50°	24780.2	23982.7	20831.1	8492.6	3055.1	1247.0	727.6	827.4	541.1	412.9	353.0
52.5°	26168.7	25379.5	22149.7	9078.6	2918.5	1120.5	654.3	829.1	546.1	392.9	329.6
55°	27915.2	27342.4	24032.7	9721.3	2700.4	934.0	566.1	712.6	526.1	356.3	308.0
57.5°	29590.0	29122.2	25749.2	10160.8	2409.1	729.2	492.8	574.4	481.2	313.0	274.7
59°	30047.9	29536.8	26378.5	10180.8	2191.0	636.0	456.2	474.5	471.2	293.0	254.7
60°	30047.9	29505.1	26560.0	10074.2	2032.8	584.4	432.9	422.9	491.1	279.7	243.1
62.5°	29503.5	28741.0	25970.6	9353.3	1658.2	497.8	377.9	349.6	441.2	251.4	214.8
65°	28371.3	27260.9	23962.7	8049.7	1478.4	456.2	326.3	286.4	306.3	221.4	188.1
67.5°	26483.4	24978.3	21067.5	6503.1	1406.8	444.5	281.4	243.1	231.4	189.8	164.8
70°	23158.6	21488.7	17552.9	5112.9	1345.2	439.5	236.4	204.8	186.5	159.8	139.9
72.5°	16855.3	15113.8	12461.7	3997.4	1308.6	449.5	189.8	171.5	153.2	124.9	108.2
75°	9641.4	8500.9	7004.2	2640.5	1115.5	429.5	146.5	143.2	109.9	89.9	74.9
77.5°	4981.3	4829.8	4197.2	1013.9	534.4	188.1	96.6	83.2	64.9	54.9	45.0
80°	2149.4	2126.1	1839.7	293.0	141.5	104.9	54.9	35.0	30.0	23.3	18.3
82.5°	742.5	742.5	654.3	98.2	63.3	51.6	6.7	0.0	0.0	0.0	0.0
85°	149.8	168.2	118.2	0.0	21.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	9984.3	9782.9	9769.6	9643.0	9484.9	9413.3	9371.7	9444.9	9534.8	9544.8	9679.7
5°	7750.1	7538.6	7626.9	7402.1	7447.0	7402.1	7328.8	7342.2	7382.1	7257.2	7412.1
7.5°	5442.5	5282.7	5384.2	5324.3	5404.2	5435.9	5390.9	5324.3	5127.9	5104.5	5239.4
10°	4102.3	3920.8	3812.6	3699.4	3724.4	3776.0	3759.3	3711.0	3586.2	3592.8	3722.7
12.5°	3296.5	3093.4	2878.6	2600.6	2532.3	2570.6	2532.3	2504.0	2384.1	2394.1	2509.0
15°	2500.7	2334.2	2109.4	1886.3	1764.8	1776.4	1669.9	1595.0	1520.0	1430.1	1500.1
17.5°	1688.2	1586.6	1520.0	1453.4	1308.6	1275.3	1140.4	995.6	939.0	897.4	927.3
20°	1195.4	1140.4	1113.8	1110.5	1027.2	985.6	854.1	764.2	735.9	727.6	745.9
22.5°	998.9	959.0	920.7	899.0	857.4	809.1	709.2	664.3	644.3	634.3	647.6
25°	869.1	839.1	799.1	762.5	745.9	694.3	622.7	589.4	576.1	566.1	572.7
27.5°	772.5	745.9	699.3	675.9	662.6	617.7	556.1	529.4	517.8	514.5	512.8
30°	695.9	670.9	627.7	601.0	577.7	537.8	501.1	474.5	462.8	459.5	456.2
32.5°	619.3	599.4	571.1	544.4	519.4	482.8	451.2	429.5	411.2	407.9	406.2
35°	522.8	502.8	487.8	486.1	462.8	427.9	404.6	376.3	361.3	356.3	358.0
37.5°	464.5	437.9	404.6	416.2	409.6	384.6	353.0	324.7	309.7	306.3	306.3
40°	427.9	399.6	361.3	341.3	361.3	356.3	306.3	278.0	263.1	261.4	258.1
42.5°	392.9	364.6	321.3	288.0	298.0	313.0	264.7	238.1	223.1	219.8	214.8
45°	367.9	338.0	289.7	251.4	231.4	263.1	226.4	193.1	184.8	178.1	174.8
47.5°	344.6	316.3	261.4	218.1	184.8	189.8	181.5	158.2	148.2	141.5	139.9
50°	324.7	294.7	236.4	186.5	153.2	139.9	146.5	124.9	116.5	109.9	106.6
52.5°	301.3	273.0	209.8	161.5	128.2	109.9	111.5	98.2	89.9	84.9	83.2
55°	283.0	254.7	188.1	141.5	113.2	89.9	79.9	76.6	71.6	68.3	66.6
57.5°	258.1	231.4	166.5	119.9	96.6	73.3	61.6	61.6	59.9	56.6	54.9
59°	243.1	219.8	153.2	108.2	88.2	63.3	54.9	56.6	54.9	51.6	49.9
60°	231.4	209.8	143.2	99.9	83.2	58.3	49.9	53.3	51.6	48.3	46.6
62.5°	204.8	189.8	123.2	83.2	73.3	46.6	41.6	45.0	45.0	43.3	41.6
65°	179.8	163.2	104.9	69.9	68.3	40.0	33.3	40.0	41.6	38.3	35.0
67.5°	156.5	139.9	91.6	56.6	63.3	31.6	25.0	33.3	45.0	35.0	31.6
70°	133.2	116.5	71.6	45.0	66.6	21.6	20.0	30.0	53.3	38.3	30.0
72.5°	103.2	89.9	49.9	33.3	71.6	15.0	15.0	25.0	59.9	41.6	28.3
75°	71.6	58.3	30.0	20.0	58.3	10.0	10.0	23.3	56.6	38.3	26.6
77.5°	41.6	31.6	10.0	1.7	30.0	0.0	1.7	16.6	40.0	23.3	11.7
80°	15.0	6.7	0.0	0.0	18.3	0.0	0.0	0.0	3.3	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°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	9714.6	9939.4	10140.8	10445.5	10806.8	11223.0	11581.0	11965.5	12326.8	12476.7	12579.9
5°	7443.7	7721.7	8046.4	8494.3	9090.3	9824.5	10512.1	11289.6	12125.4	12543.3	12936.2
7.5°	5262.7	5545.7	5948.6	6424.8	7145.7	8019.8	8918.8	9992.7	11124.8	11785.7	12436.7
10°	3784.3	4132.3	4508.5	5159.5	5892.0	6721.2	7646.8	8845.5	10107.5	10840.1	11624.2
12.5°	2575.6	2971.8	3541.2	4270.4	5131.2	5943.6	6747.8	7891.6	9356.7	10082.6	10923.3
15°	1545.0	1764.8	2367.5	3211.6	4267.1	5279.4	6160.1	7307.2	8868.9	9757.9	10632.0
17.5°	952.3	1053.9	1381.9	2074.4	3183.3	4463.6	5670.6	7109.1	8938.8	10021.0	10956.6
20°	759.2	799.1	904.0	1225.4	2109.4	3564.5	5119.5	7069.1	9509.8	10841.7	11845.7
22.5°	659.3	697.6	767.5	890.7	1326.9	2668.8	4596.8	7105.7	10329.0	12072.1	13244.2
25°	581.0	614.3	680.9	782.5	972.3	1879.7	4037.4	7268.9	11396.2	13598.8	14844.1
27.5°	519.4	547.7	609.3	702.6	834.1	1311.9	3403.0	7467.0	12661.5	15160.5	16389.2
30°	462.8	487.8	542.8	629.3	724.2	1008.9	2707.1	7601.9	13928.4	16389.2	17493.0
32.5°	414.6	432.9	482.8	556.1	629.3	804.1	2057.8	7580.2	14869.1	17411.4	18287.1
35°	364.6	382.9	426.2	489.5	547.7	664.3	1618.3	7175.7	15688.2	18471.9	19196.2
37.5°	309.7	333.0	374.6	431.2	471.2	584.4	1308.6	6687.9	16519.0	19684.0	20210.1
40°	263.1	286.4	323.0	384.6	409.6	554.4	1005.6	6093.5	17453.0	21039.2	21322.2
42.5°	218.1	239.7	278.0	331.3	386.3	477.8	744.2	5414.2	18350.4	22197.9	22336.1
45°	176.5	198.1	238.1	291.4	412.9	396.2	576.1	4686.7	19074.6	23161.9	23206.9
47.5°	139.9	159.8	201.5	274.7	384.6	316.3	411.2	4115.6	19682.3	23914.4	23796.2
50°	108.2	124.9	168.2	314.7	336.3	261.4	311.3	3925.8	20226.7	24380.6	24074.3
52.5°	84.9	99.9	138.2	294.7	261.4	216.4	261.4	4103.9	20972.6	24766.9	24230.8
55°	68.3	83.2	108.2	168.2	178.1	183.1	223.1	4270.4	22259.5	25672.6	25154.8
57.5°	56.6	71.6	88.2	118.2	134.9	154.8	198.1	4288.8	23776.3	27177.6	26688.1
59°	51.6	64.9	79.9	104.9	118.2	141.5	186.5	4188.9	24310.7	27725.4	27480.6
60°	48.3	61.6	74.9	96.6	109.9	133.2	179.8	4094.0	24334.0	27705.4	27818.6
62.5°	41.6	54.9	66.6	81.6	93.2	113.2	161.5	3742.7	23348.4	26798.0	27615.5
65°	36.6	48.3	59.9	69.9	79.9	101.6	146.5	3101.7	21665.2	25334.6	26225.3
67.5°	33.3	41.6	54.9	61.6	71.6	89.9	129.9	2211.0	19562.4	23544.8	24122.6
70°	30.0	40.0	49.9	56.6	64.9	78.2	111.5	1270.3	16519.0	20924.3	21335.5
72.5°	28.3	38.3	45.0	53.3	58.3	69.9	101.6	597.7	12095.4	16762.1	17835.9
75°	25.0	35.0	41.6	49.9	54.9	63.3	86.6	286.4	8044.7	12130.4	13350.7
77.5°	15.0	28.3	38.3	45.0	48.3	54.9	71.6	164.8	5134.5	8396.0	9889.4
80°	0.0	10.0	28.3	38.3	41.6	46.6	54.9	129.9	2747.1	4796.5	5757.2
82.5°	0.0	0.0	20.0	30.0	28.3	31.6	41.6	81.6	1238.7	3135.0	3532.9
85°	0.0	0.0	6.7	23.3	20.0	15.0	28.3	28.3	271.4	1586.6	1979.6
87.5°	0.0	0.0	0.0	1.7	10.0	6.7	11.7	3.3	1.7	118.2	479.5
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: P324412

CATALOG NUMBER: GAN-SA8C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8	11447.8
2.5°	12941.2	13064.4	13272.5	13370.7	13322.4	13117.6	12872.9	12623.2	12476.7	12534.9
5°	13737.0	14371.3	14737.6	14859.1	14656.0	14196.5	13595.5	12803.0	12521.6	12445.0
7.5°	13737.0	14930.7	15686.6	15819.8	15366.9	14466.2	13339.1	12102.1	11690.8	11541.0
10°	13254.2	14879.1	15933.0	16144.4	15511.8	14164.9	12654.8	11243.0	10755.2	10600.3
12.5°	12709.8	14459.5	15570.0	15861.4	15341.9	13865.2	12180.3	10661.9	10087.6	9952.7
15°	12375.1	13943.4	14862.5	15073.9	14854.1	13690.4	12067.1	10487.1	9811.2	9681.3
17.5°	12495.0	13543.9	13875.2	13998.4	14146.5	13628.8	12375.1	10870.1	10014.3	9891.1
20°	12946.2	13122.6	12951.2	13106.0	13505.6	13688.7	13109.3	11795.7	10768.5	10603.7
22.5°	13712.0	12904.5	12423.4	12485.0	12971.1	13886.8	14231.5	13117.6	11932.2	11725.8
25°	14604.4	13081.0	12130.4	12075.4	12574.9	14148.2	15257.0	14556.1	13309.1	13081.0
27.5°	15726.5	13477.3	12070.4	12015.5	12436.7	14393.0	16109.5	15977.9	14759.2	14369.6
30°	16592.3	13866.8	12248.6	12122.0	12574.9	14562.8	16793.7	17185.0	15914.7	15656.6
32.5°	17213.3	14326.4	12538.3	12355.1	12964.5	14855.8	17321.5	18290.5	16983.5	16592.3
35°	17686.1	14825.8	13006.1	12704.8	13500.6	15300.3	17816.0	19467.5	18120.6	17692.8
37.5°	18129.0	15526.7	13737.0	13377.4	14341.3	16016.2	18338.7	20802.8	19392.6	18881.5
40°	18746.6	16320.9	14864.1	14544.5	15754.8	16991.8	18991.4	22194.6	20839.4	20196.8
42.5°	19364.3	17173.3	16017.9	16104.5	17517.9	18177.2	19833.8	23666.4	22267.9	21581.9
45°	19928.7	18052.4	17661.1	18060.7	19154.5	19477.5	20671.2	24517.1	23408.3	22745.7
47.5°	20431.5	19151.2	19294.4	20358.2	21015.9	20654.6	21297.2	25251.4	24257.4	23673.0
50°	21015.9	20573.0	21447.1	22952.1	23158.6	21720.1	21866.6	26120.4	25249.7	24780.2
52.5°	21655.2	22071.4	23831.2	25158.1	25091.5	22877.2	22439.4	27094.4	26609.9	26168.7
55°	22381.1	23281.8	25930.6	27222.6	27166.0	24169.2	23388.3	28298.1	28314.7	27915.2
57.5°	23458.3	24324.0	27355.8	28892.5	28987.4	25660.9	24996.6	29646.7	29856.4	29590.0
59°	24230.8	25000.0	27920.2	29590.0	29976.3	26814.7	26172.0	30429.2	30291.0	30047.9
60°	24803.5	25429.5	28199.9	29954.7	30550.7	27597.2	27039.4	30888.7	30342.6	30047.9
62.5°	26220.3	26365.2	28704.3	30367.5	31211.6	29335.3	29480.2	31671.2	29984.6	29503.5
65°	26881.3	26956.2	28697.7	29628.3	30572.3	30688.9	31694.5	31694.5	29110.6	28371.3
67.5°	26604.9	26243.6	27274.2	27177.6	28120.0	29884.7	32526.9	30532.4	27439.0	26483.4
70°	24357.3	22967.1	22509.3	22550.9	23271.8	25993.9	30878.7	27112.7	24275.7	23158.6
72.5°	20266.7	16931.9	15801.4	17091.7	17279.9	19977.0	26315.2	20418.2	17902.5	16855.3
75°	16300.9	11935.6	10097.5	11459.4	11779.1	14619.4	20356.6	12716.4	10457.2	9641.4
77.5°	11710.8	8567.5	7245.6	7150.7	7563.6	9271.8	14444.6	6399.8	5337.6	4981.3
80°	6652.9	5639.0	6071.8	5728.9	5937.0	5797.1	6862.7	2807.0	2299.2	2149.4
82.5°	4015.7	3333.1	3609.5	3005.1	3802.6	3311.5	2643.8	899.0	780.8	742.5
85°	2612.2	1821.4	949.0	636.0	1310.3	2116.1	591.0	244.7	188.1	149.8
87.5°	900.7	464.5	46.6	20.0	139.9	394.6	21.6	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)