

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: P324069

Luminaire Tested: **GAN-SA5A-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324069
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 14440 lumens
Efficiency: N/A
Efficacy: 89.1 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

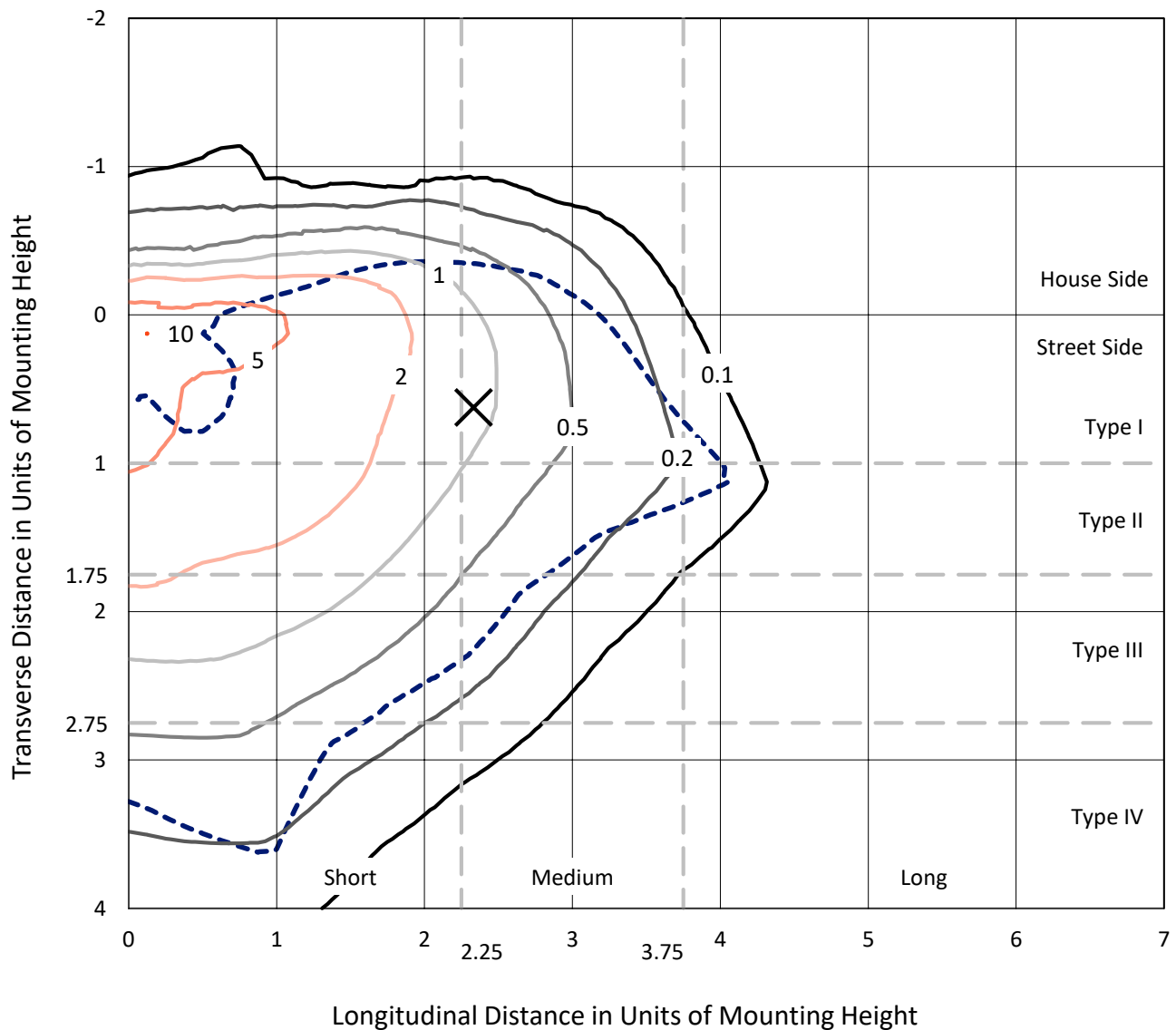


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Iso-Footcandle Lines of Horizontal Illumination

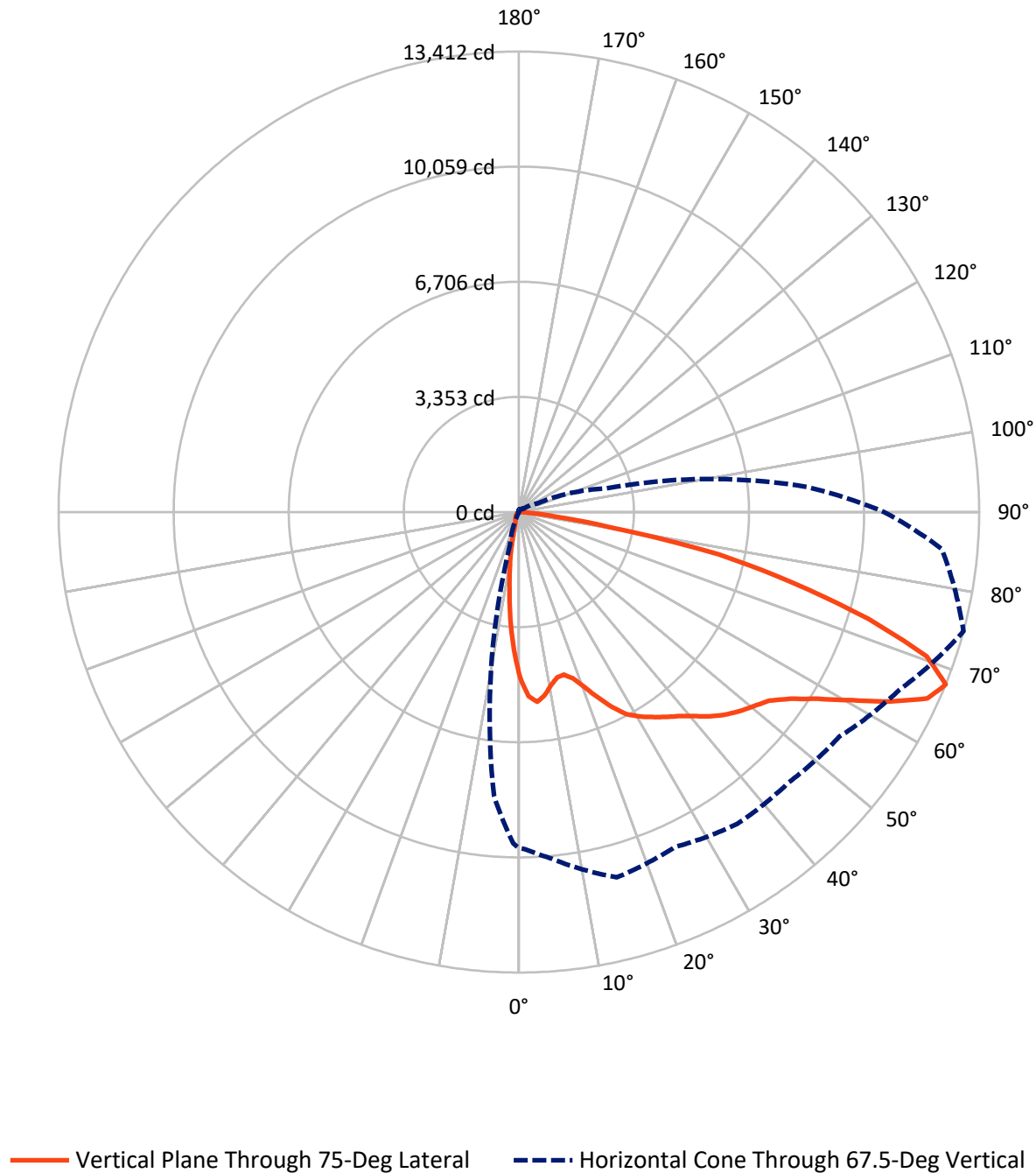
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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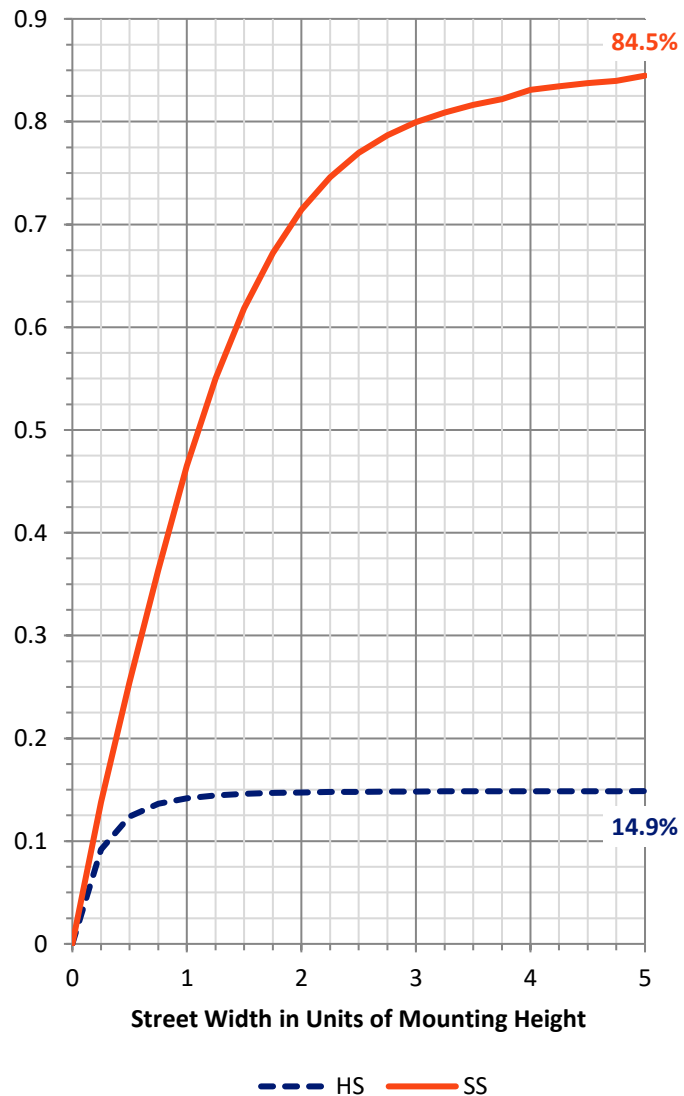
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2166.9	0.0	2166.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12273.1	0.0	12273.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	14440.0	0.0	14440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.5	2.5
10°-20°	723.5	5.0
20°-30°	1023.6	7.1
30°-40°	1505.0	10.4
40°-50°	2163.2	15.0
50°-60°	3045.2	21.1
60°-70°	3556.5	24.6
70°-80°	1814.4	12.6
80°-90°	241.0	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°	14440.0	100.0
0°-180°	14440.0	100.0

Coefficient of Utilization



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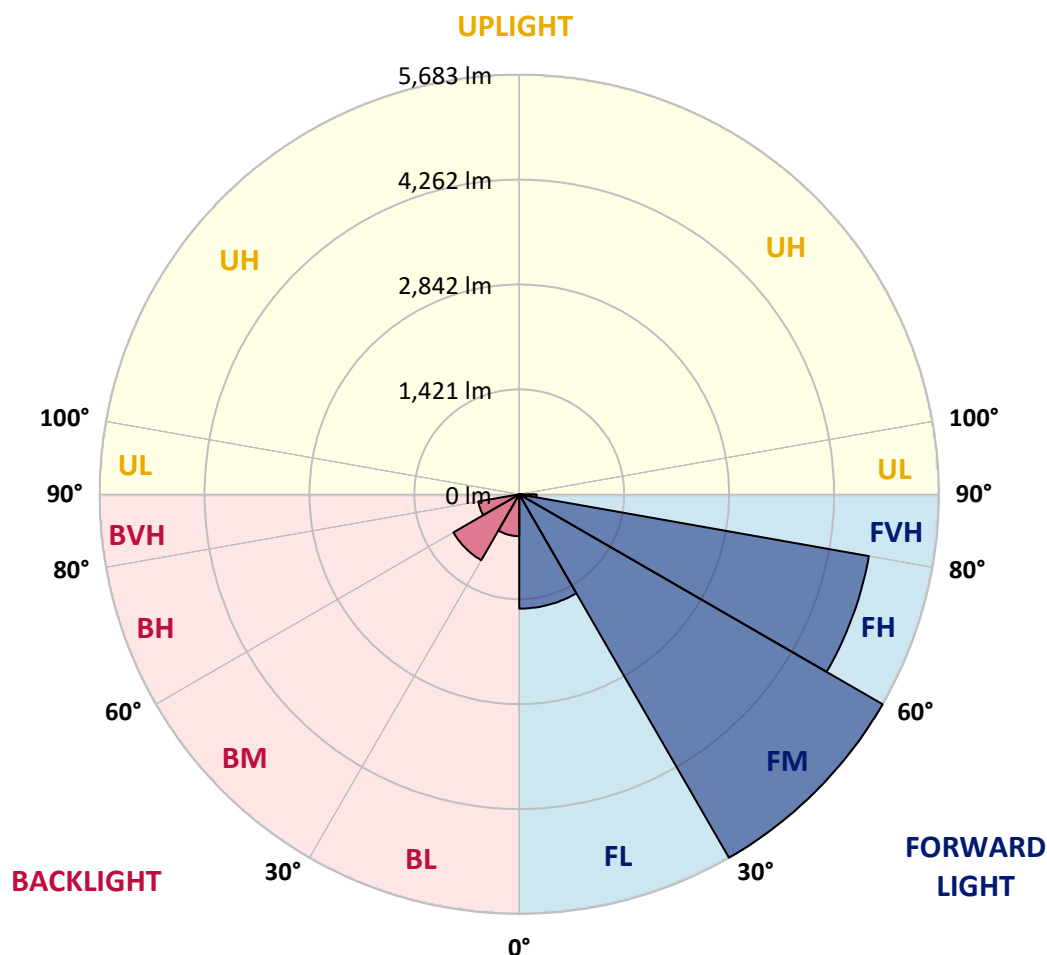
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1548.0	10.7			
FM	(30°-60°)	5683.3	39.4			
FH	(60°-80°)	4808.1	33.3			G2/5000
FVH	(80°-90°)	233.7	1.6			G3/500
BL	(0°-30°)	566.7	3.9	B2/1000		
BM	(30°-60°)	1030.1	7.1	B2/2500		
BH	(60°-80°)	562.8	3.9	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4
2.5°	5251.4	5259.6	5302.0	5400.5	5507.9	5516.1	5588.6	5514.0	5488.7	5368.3	5243.9
5°	5291.1	5322.5	5468.2	5757.6	6008.6	6089.3	6146.8	6000.4	5846.5	5552.4	5238.4
7.5°	4971.6	5024.3	5253.4	5796.6	6245.3	6443.7	6481.3	6252.1	5875.2	5390.9	4918.9
10°	4562.5	4622.7	4899.1	5566.7	6183.0	6523.0	6575.0	6274.7	5732.9	5129.6	4573.5
12.5°	4231.5	4301.9	4584.4	5308.2	5968.9	6345.2	6447.8	6198.8	5609.8	4944.2	4337.5
15°	4078.9	4159.6	4456.5	5141.2	5731.6	6027.8	6112.6	6005.2	5541.4	4914.8	4282.8
17.5°	4166.5	4254.0	4560.5	5155.6	5508.6	5635.1	5703.5	5747.3	5541.4	5092.0	4442.8
20°	4525.6	4620.0	4944.2	5301.3	5323.9	5276.7	5349.9	5503.8	5605.7	5428.5	4827.3
22.5°	5022.2	5133.0	5499.0	5551.0	5233.6	5055.1	5064.6	5306.1	5722.7	5855.4	5360.8
25°	5627.6	5763.0	6135.2	5923.1	5271.2	4923.0	4919.6	5143.3	5836.9	6282.9	5955.3
27.5°	6228.9	6378.0	6705.0	6377.3	5426.5	4899.1	4892.3	5094.0	5948.4	6663.2	6604.4
30°	6733.0	6878.0	7159.8	6706.3	5594.1	4955.2	4922.4	5146.7	6014.8	6910.2	7077.8
32.5°	7143.4	7259.7	7487.5	6932.7	5773.3	5063.9	4992.8	5287.6	6127.6	7118.8	7512.8
35°	7594.9	7717.3	7808.3	7148.2	5974.4	5220.6	5118.7	5511.3	6301.4	7330.9	7989.6
37.5°	8110.0	8231.7	8220.8	7345.2	6229.6	5479.8	5414.9	5865.6	6571.6	7540.9	8521.8
40°	8614.1	8738.6	8649.7	7560.7	6529.2	5907.4	5859.5	6397.8	6933.4	7809.7	9145.6
42.5°	9086.1	9220.9	9030.7	7764.5	6886.2	6446.4	6528.5	7083.2	7386.3	8140.8	9683.3
45°	9466.4	9603.9	9350.1	7962.9	7262.5	7100.3	7347.3	7842.5	7930.8	8420.5	10046.5
47.5°	9742.8	9872.8	9571.8	8161.3	7744.0	7900.0	8330.2	8638.7	8422.6	8663.4	10304.4
50°	9919.3	10020.5	9636.8	8409.6	8376.1	8833.0	9354.3	9504.7	8885.7	8882.3	10617.7
52.5°	10031.5	10077.3	9684.6	8668.8	9035.5	9848.8	10357.1	10404.3	9362.5	9123.0	11039.7
55°	10417.9	10454.9	10023.9	8982.8	9580.7	10738.7	11264.1	11220.3	9902.2	9594.3	11537.7
57.5°	11077.3	11116.3	10725.1	9434.3	10021.9	11288.7	11921.5	12000.1	10534.9	10256.5	12071.3
60°	11408.4	11480.9	11341.4	10006.1	10449.4	11640.3	12369.5	12620.5	11325.7	11129.3	12588.4
62.5°	11108.1	11213.5	11415.9	10640.2	10874.2	11833.9	12509.0	12842.9	12135.6	12146.5	12907.2
65°	10508.9	10593.0	10936.4	10987.7	11120.4	11810.0	12164.3	12532.3	12631.5	13080.9	12890.1
67.5°	9785.2	9816.7	10108.1	11015.1	10763.4	11090.3	11128.7	11400.9	12239.5	13412.0	12372.2
70°	8743.4	8760.5	9015.0	10099.2	9249.6	9321.4	9264.6	9320.0	10522.6	12605.5	11065.0
72.5°	7036.7	7079.8	7441.7	8387.0	6738.5	6531.2	6977.2	6952.6	8103.8	10649.8	8218.1
75°	5180.9	5255.5	5802.0	6755.6	4729.5	4278.0	4603.6	4690.5	5761.0	8237.9	5139.2
77.5°	3627.5	3682.9	4212.3	4966.1	3422.9	3059.0	2941.4	3044.7	3802.6	5959.4	2589.1
80°	2089.7	2110.3	2448.2	2867.5	2306.6	2639.0	2390.7	2461.9	2278.5	2651.3	1113.6
82.5°	1367.4	1370.8	1502.8	1706.7	1436.5	1669.1	1235.4	1579.4	1401.6	1065.1	362.5
85°	738.8	742.9	871.5	1211.4	813.3	459.7	270.2	554.8	866.7	244.2	99.2
87.5°	81.4	74.6	262.7	440.5	225.7	41.7	14.4	62.2	138.9	15.7	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°	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4
2.5°	5180.2	5123.5	4981.9	4832.1	4711.7	4598.8	4485.3	4346.4	4239.0	4217.1	4181.5
5°	5069.4	4889.5	4592.6	4294.4	4054.3	3751.3	3559.1	3409.3	3262.9	3254.0	3224.6
7.5°	4682.3	4445.6	4027.6	3615.2	3277.2	2988.6	2697.2	2502.2	2349.0	2295.0	2262.8
10°	4310.1	4044.0	3522.1	3051.5	2749.8	2494.7	2289.5	2085.6	1900.9	1773.7	1716.3
12.5°	4050.2	3756.1	3180.8	2775.2	2559.0	2316.8	2066.5	1812.0	1599.3	1446.1	1352.3
15°	3949.6	3635.7	3066.6	2665.7	2398.9	2092.5	1772.3	1481.6	1245.6	1106.8	1022.6
17.5°	4069.4	3704.1	3057.7	2532.3	2159.5	1778.5	1424.9	1081.5	859.2	753.8	699.8
20°	4373.1	3921.6	3054.2	2368.8	1875.0	1406.4	965.2	711.4	576.6	517.8	492.5
22.5°	4802.6	4199.3	3081.6	2207.4	1578.8	1004.9	666.3	522.6	453.5	422.1	407.7
25°	5355.4	4589.2	3158.9	2061.0	1300.4	749.7	519.2	437.8	389.2	364.6	354.3
27.5°	5944.3	5038.0	3279.3	1933.8	1073.9	597.9	444.6	374.9	340.0	322.9	313.3
30°	6430.0	5557.8	3401.0	1792.2	909.8	521.2	407.0	342.0	301.7	290.7	281.8
32.5°	6854.8	5951.2	3487.2	1664.3	802.4	463.1	368.0	305.8	278.4	257.2	247.6
35°	7294.6	6278.8	3484.5	1574.7	728.5	419.3	335.2	273.6	240.8	216.2	208.6
37.5°	7770.7	6648.9	3425.0	1498.0	696.4	384.4	316.7	256.5	223.7	199.1	189.5
40°	8328.2	7037.4	3364.1	1426.2	687.5	356.4	303.7	242.8	207.9	184.0	174.4
42.5°	8871.3	7387.6	3310.8	1372.9	649.2	355.7	292.1	232.6	195.6	172.4	161.4
45°	9305.7	7713.9	3300.5	1340.7	608.8	368.0	285.9	225.7	186.1	162.8	152.5
47.5°	9666.9	8068.3	3366.2	1318.1	570.5	335.9	301.0	220.9	177.2	154.6	143.0
50°	10096.4	8503.3	3520.8	1281.2	530.1	302.3	344.8	222.3	169.6	146.4	134.1
52.5°	10695.7	9105.3	3747.9	1219.0	474.7	271.6	339.3	223.7	161.4	137.5	125.2
55°	11367.4	9857.0	3992.1	1115.7	397.4	231.2	290.7	214.1	145.7	127.9	116.3
57.5°	12073.3	10539.0	4137.1	992.5	316.0	199.7	232.6	195.0	128.6	114.9	107.4
60°	12184.1	10798.3	4070.7	841.4	251.0	173.7	172.4	198.4	114.9	101.2	95.8
62.5°	11908.5	10472.7	3749.9	706.6	210.0	152.5	141.6	173.1	104.0	90.3	84.8
65°	11378.3	9592.3	3230.0	636.8	195.0	130.7	117.7	121.8	91.0	78.7	73.9
67.5°	10640.9	8417.1	2652.0	597.2	192.9	112.2	100.6	92.3	78.7	68.4	64.3
70°	9133.3	7012.1	2115.7	575.3	187.4	94.4	84.8	75.2	65.7	58.1	54.7
72.5°	6722.1	4968.9	1645.8	551.3	188.8	75.2	73.9	62.2	52.7	45.1	43.8
75°	3884.0	2838.8	1079.4	446.7	179.9	58.1	61.6	43.8	36.9	31.5	31.5
77.5°	2069.9	1731.3	411.1	186.1	65.7	36.9	34.9	26.0	23.3	19.2	18.5
80°	902.2	762.0	123.8	52.0	36.3	19.8	13.0	11.6	10.3	8.2	7.5
82.5°	319.4	275.7	40.4	25.3	15.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.5	52.0	0.0	6.2	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°	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4
2.5°	4109.0	4094.0	4005.1	4008.5	4024.2	4046.8	3993.4	4018.1	4084.4	4148.0	4172.0
5°	3177.4	3180.8	3126.7	3160.3	3190.4	3210.9	3124.7	3126.1	3178.7	3250.6	3288.2
7.5°	2238.9	2233.4	2236.1	2316.2	2372.9	2331.9	2364.0	2252.5	2259.4	2310.7	2272.4
10°	1664.3	1589.0	1546.6	1606.8	1669.1	1646.5	1591.1	1554.8	1580.1	1636.9	1632.8
12.5°	1307.9	1199.8	1136.2	1093.1	1144.4	1102.0	1100.6	1069.2	1035.0	1041.1	1132.1
15°	983.6	905.0	829.7	760.7	759.3	744.9	671.7	589.6	582.8	586.9	634.1
17.5°	676.5	649.8	619.1	559.5	543.8	483.6	412.5	379.6	363.2	370.7	386.5
20°	475.4	465.1	468.6	436.4	413.8	356.4	314.7	301.7	298.9	306.5	314.0
22.5°	394.0	375.5	373.5	359.1	336.5	294.8	272.2	264.7	261.3	268.1	273.6
25°	344.8	326.3	318.8	309.9	285.9	257.2	243.5	236.7	233.3	237.4	240.8
27.5°	303.7	286.6	279.8	273.6	250.4	229.8	218.9	212.7	210.0	211.4	214.8
30°	272.9	257.9	249.0	241.5	221.6	207.3	197.7	191.5	188.8	188.8	192.2
32.5°	240.8	232.6	224.4	214.8	196.3	186.7	177.2	170.3	167.6	168.3	171.0
35°	200.4	197.7	199.7	190.8	175.1	166.9	157.3	149.8	147.8	148.4	151.2
37.5°	177.9	165.5	173.1	168.3	159.4	148.4	136.1	129.3	125.9	127.9	129.3
40°	163.5	148.4	143.0	147.8	146.4	128.6	117.7	110.8	108.1	108.8	110.1
42.5°	151.2	133.4	121.1	120.4	128.6	112.2	100.6	94.4	91.0	91.0	92.3
45°	139.5	120.4	105.3	93.7	108.1	95.1	84.1	78.7	74.6	74.6	75.2
47.5°	130.7	109.4	91.7	76.6	81.4	78.0	69.1	63.6	59.5	59.5	60.2
50°	122.4	98.5	79.3	64.3	60.9	64.3	56.1	49.9	47.2	46.5	47.9
52.5°	113.6	87.6	67.7	54.7	47.9	48.6	43.8	39.7	36.3	36.3	37.6
55°	104.7	78.7	58.8	46.5	39.7	36.3	34.9	32.1	29.4	29.4	30.8
57.5°	95.8	69.1	49.9	38.3	31.5	28.7	28.7	26.7	24.6	24.6	26.0
60°	87.6	59.5	41.0	31.5	24.6	23.9	24.6	22.6	21.2	21.2	22.6
62.5°	78.0	50.6	33.5	26.0	19.8	19.2	21.2	19.8	18.5	18.5	19.8
65°	66.4	43.1	26.7	19.8	15.0	15.0	17.8	16.4	15.0	15.0	16.4
67.5°	56.1	36.3	20.5	14.4	10.9	11.6	15.0	13.7	13.0	13.0	14.4
70°	46.5	28.0	14.4	8.9	6.2	8.9	11.6	11.6	11.6	11.6	13.0
72.5°	34.9	19.2	8.2	3.4	2.7	6.2	9.6	10.9	10.3	10.3	12.3
75°	22.6	10.9	2.7	0.0	0.0	3.4	7.5	8.9	8.9	8.2	10.3
77.5°	13.0	3.4	0.0	0.0	0.0	0.0	4.8	4.1	3.4	2.7	4.8
80°	3.4	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

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CATALOG NUMBER: GAN-SA5A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4
2.5°	4268.4	4349.1	4462.7	4583.1	4768.4	4915.5	5059.8	5183.7	5231.5	5251.4
5°	3378.5	3496.8	3663.0	3876.5	4211.0	4511.9	4817.0	5124.1	5257.5	5291.1
7.5°	2424.2	2575.4	2786.8	3054.2	3446.2	3836.1	4262.3	4713.0	4919.6	4971.6
10°	1794.2	1978.9	2221.1	2502.9	2877.1	3277.9	3742.4	4257.5	4493.5	4562.5
12.5°	1273.0	1522.7	1846.9	2189.6	2513.8	2871.6	3341.5	3909.3	4156.9	4231.5
15°	747.7	989.1	1372.9	1831.9	2247.1	2609.6	3087.1	3730.8	4003.7	4078.9
17.5°	428.9	549.3	839.3	1351.0	1914.6	2416.7	3007.0	3775.2	4096.7	4166.5
20°	327.7	366.0	483.6	870.1	1526.1	2227.2	3007.0	4026.9	4423.0	4525.6
22.5°	286.6	314.7	362.5	519.2	1123.2	2024.1	3041.9	4390.9	4908.7	5022.2
25°	254.5	279.8	320.8	390.6	766.1	1782.6	3124.7	4837.5	5480.5	5627.6
27.5°	227.8	251.7	288.7	342.0	524.0	1491.2	3236.2	5361.5	6111.2	6228.9
30°	203.8	226.4	259.9	297.6	404.3	1160.8	3331.3	5855.4	6606.5	6733.0
32.5°	181.3	201.8	231.9	259.9	331.1	858.5	3341.5	6246.7	7017.6	7143.4
35°	160.1	178.5	205.9	227.8	274.3	677.9	3182.2	6585.9	7428.7	7594.9
37.5°	139.5	157.3	181.3	197.7	241.5	552.7	2938.6	6964.2	7956.1	8110.0
40°	120.4	136.1	160.7	171.7	228.5	424.8	2673.9	7361.0	8473.2	8614.1
42.5°	102.6	117.7	141.6	162.8	200.4	317.4	2388.0	7733.1	8938.4	9086.1
45°	85.5	101.2	125.2	172.4	166.2	237.4	2082.2	7980.0	9305.7	9466.4
47.5°	69.1	86.9	119.7	164.2	132.7	174.4	1840.1	8214.0	9584.1	9742.8
50°	55.4	73.2	134.8	146.4	108.8	133.4	1738.8	8423.3	9766.7	9919.3
52.5°	45.1	61.6	127.2	112.2	91.0	110.1	1793.6	8762.6	9935.7	10031.5
55°	37.6	48.6	76.6	78.0	77.3	93.7	1861.3	9249.6	10372.8	10417.9
57.5°	32.8	39.0	53.4	60.2	65.0	83.5	1862.6	9948.7	11049.3	11077.3
60°	28.0	34.2	44.5	48.6	56.1	74.6	1794.9	10192.9	11315.4	11408.4
62.5°	24.6	30.1	36.9	40.4	47.2	67.0	1636.2	9839.2	10950.1	11108.1
65°	21.9	27.4	30.8	34.2	41.7	60.2	1374.9	9131.9	10344.1	10508.9
67.5°	19.2	23.9	27.4	30.8	37.6	53.4	1012.4	8310.4	9648.4	9785.2
70°	17.1	21.2	24.6	27.4	32.8	45.1	614.3	7051.8	8686.6	8743.4
72.5°	16.4	19.2	22.6	24.6	28.7	39.7	311.2	5182.3	6944.4	7036.7
75°	14.4	17.1	20.5	21.9	25.3	34.2	126.5	3403.8	5032.5	5180.9
77.5°	11.6	15.7	18.5	19.8	21.9	28.0	64.3	2175.2	3531.7	3627.5
80°	4.1	11.6	15.7	16.4	18.5	20.5	42.4	1190.9	2048.7	2089.7
82.5°	0.0	7.5	12.3	11.6	13.0	15.7	27.4	566.4	1352.3	1367.4
85°	0.0	3.4	9.6	7.5	5.5	10.9	9.6	123.8	709.3	738.8
87.5°	0.0	0.0	0.7	3.4	2.7	4.1	1.4	0.7	64.3	81.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)