

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: P324068

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324068
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-SA4A-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 11654 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

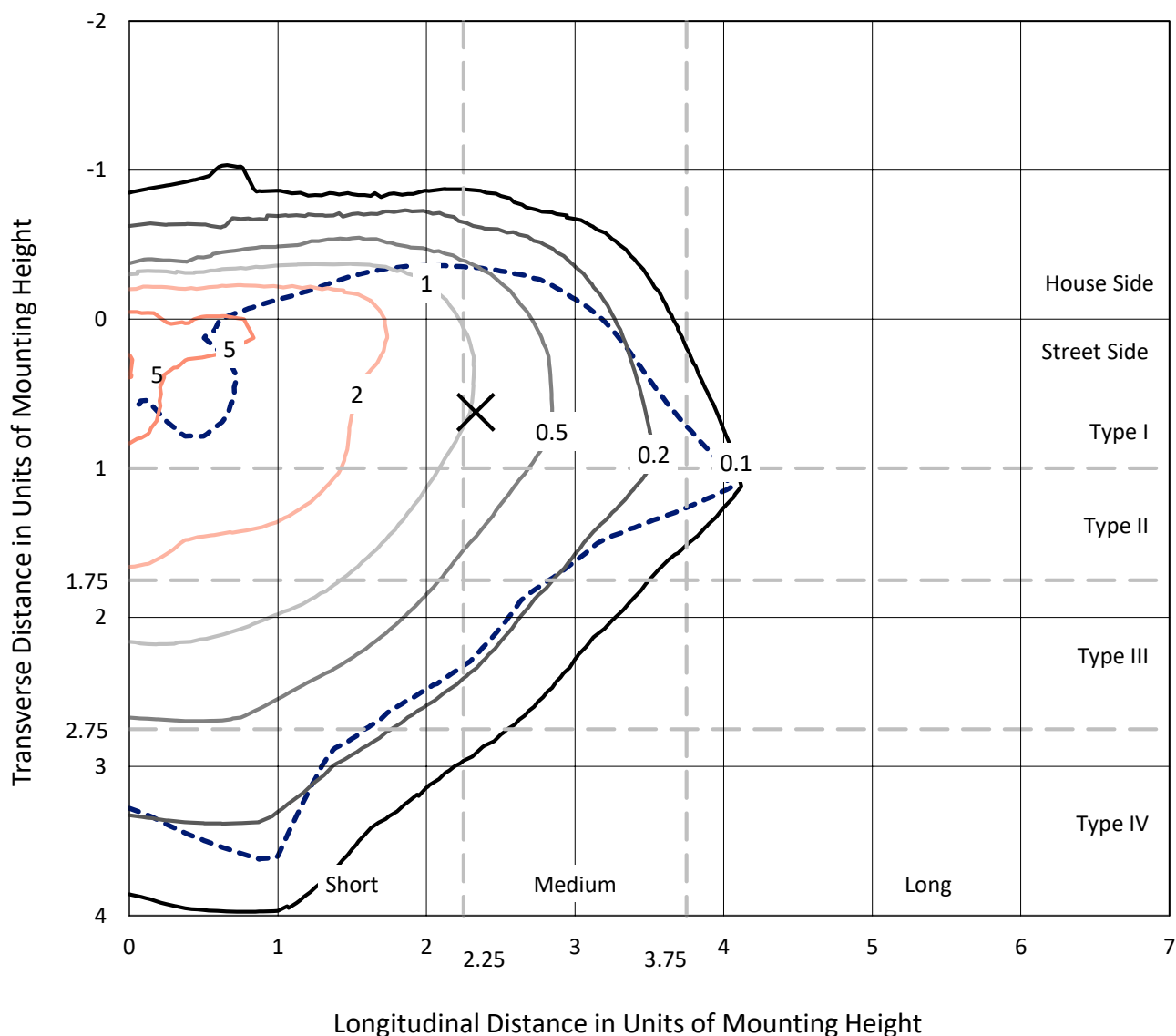
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

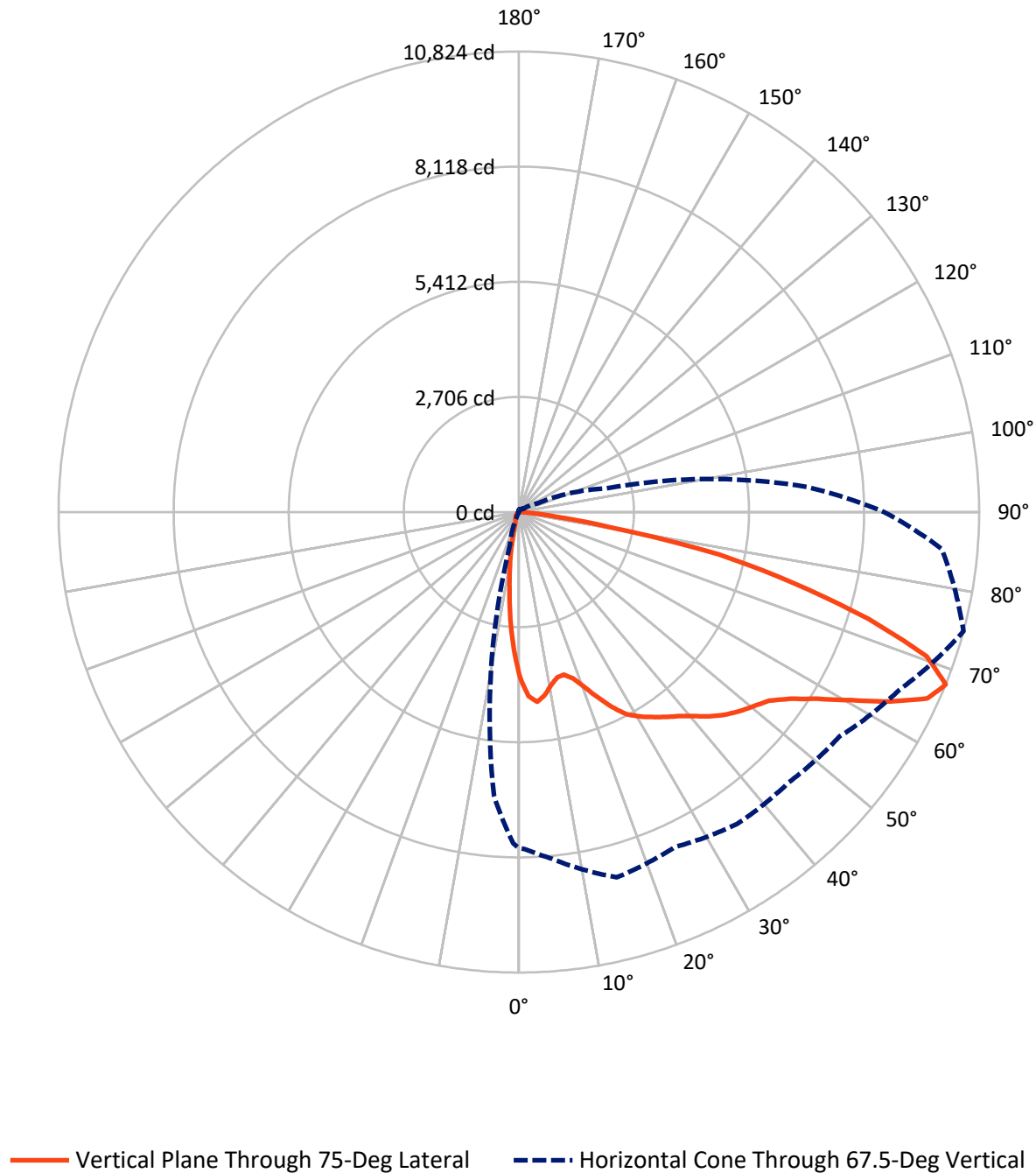
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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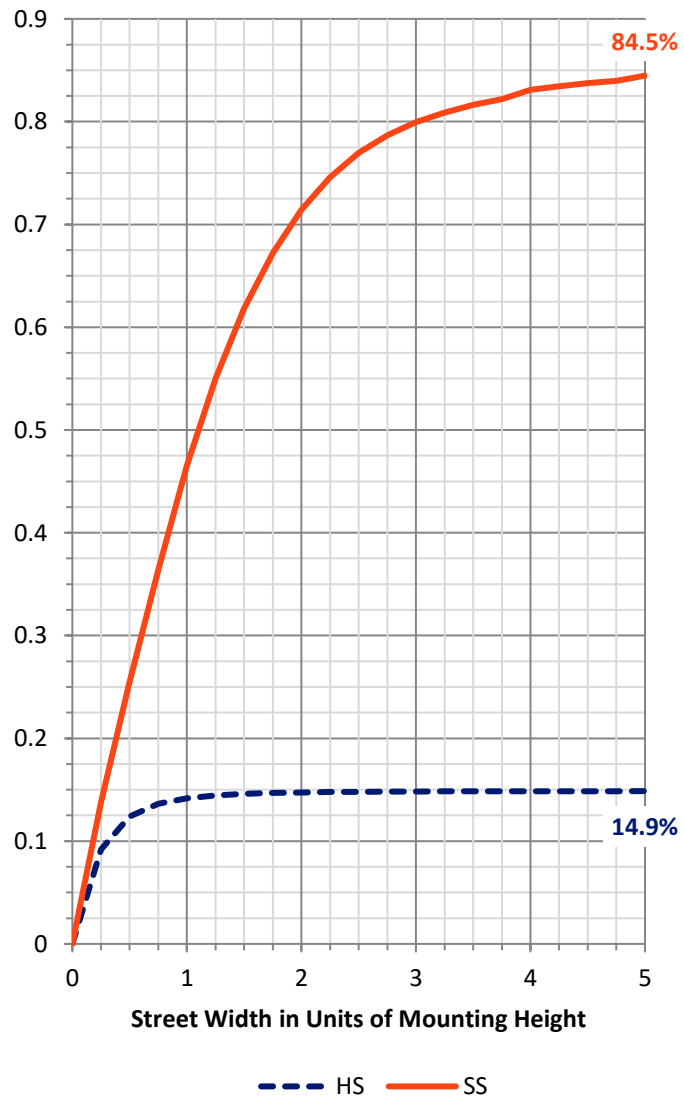
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.8	0.0	1748.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9905.2	0.0	9905.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	11654.0	0.0	11654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	2.5
10°-20°	584.0	5.0
20°-30°	826.1	7.1
30°-40°	1214.6	10.4
40°-50°	1745.8	15.0
50°-60°	2457.7	21.1
60°-70°	2870.3	24.6
70°-80°	1464.4	12.6
80°-90°	194.5	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°	11654.0	100.0
0°-180°	11654.0	100.0

Coefficient of Utilization



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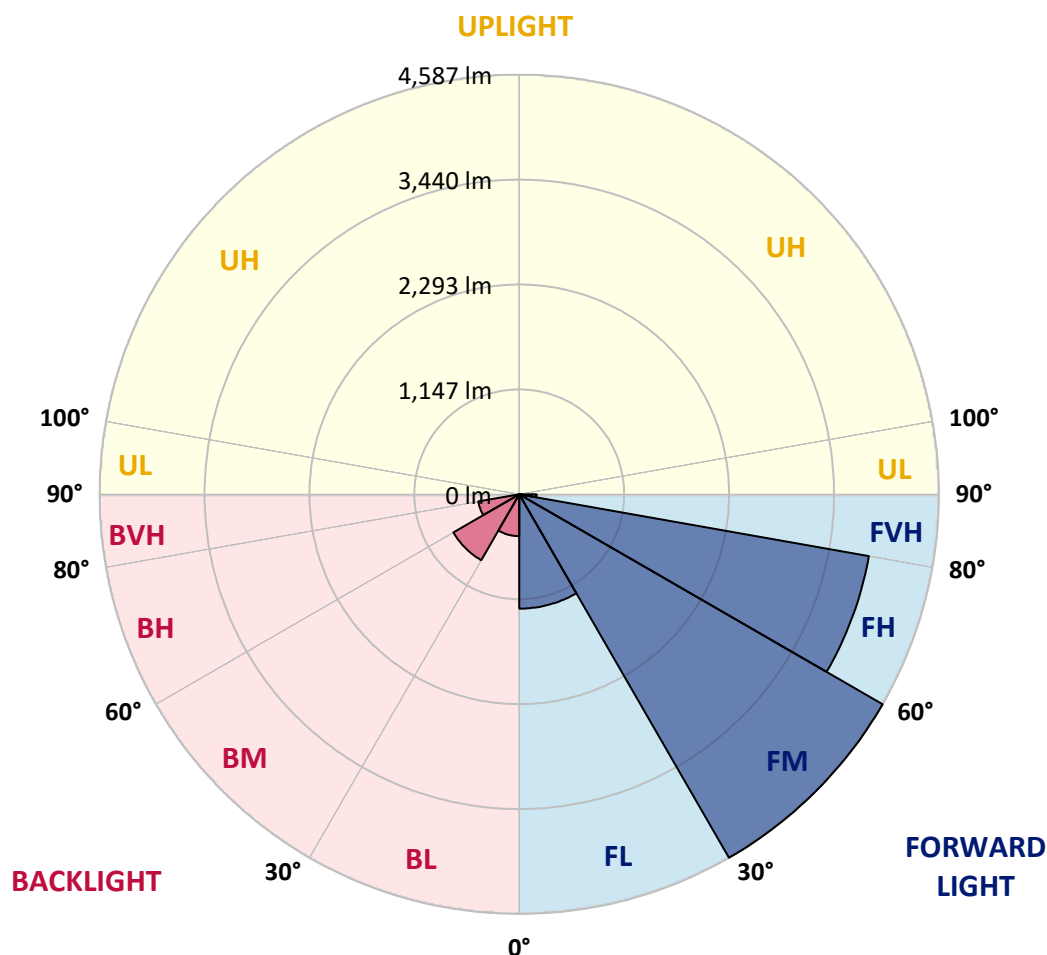
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1249.3	10.7			
FM	(30°-60°)	4586.8	39.4			
FH	(60°-80°)	3880.5	33.3			G2/5000
FVH	(80°-90°)	188.6	1.6			G2/225
BL	(0°-30°)	457.3	3.9	B1/500		
BM	(30°-60°)	831.3	7.1	B1/1000		
BH	(60°-80°)	454.2	3.9	B1/500		G1/500
BVH	(80°-90°)	5.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7
2.5°	4238.2	4244.8	4279.0	4358.5	4445.2	4451.8	4510.4	4450.2	4429.8	4332.6	4232.1
5°	4270.2	4295.6	4413.2	4646.7	4849.3	4914.5	4960.8	4842.7	4718.5	4481.1	4227.7
7.5°	4012.4	4054.9	4239.9	4678.2	5040.3	5200.4	5230.8	5045.9	4741.7	4350.8	3969.9
10°	3682.3	3730.8	3953.9	4492.7	4990.1	5264.5	5306.4	5064.1	4626.8	4139.9	3691.1
12.5°	3415.1	3471.9	3699.9	4284.0	4817.3	5120.9	5203.8	5002.8	4527.5	3990.3	3500.6
15°	3292.0	3357.1	3596.7	4149.3	4625.7	4864.8	4933.2	4846.6	4472.3	3966.6	3456.5
17.5°	3362.6	3433.3	3680.6	4160.9	4445.8	4547.9	4603.1	4638.4	4472.3	4109.6	3585.7
20°	3652.5	3728.6	3990.3	4278.5	4296.7	4258.6	4317.7	4441.9	4524.2	4381.2	3895.9
22.5°	4053.3	4142.7	4438.0	4480.0	4223.8	4079.8	4087.5	4282.4	4618.6	4725.7	4326.5
25°	4541.8	4651.1	4951.5	4780.3	4254.2	3973.2	3970.4	4151.0	4710.8	5070.7	4806.3
27.5°	5027.1	5147.4	5411.3	5146.9	4379.5	3953.9	3948.4	4111.2	4800.7	5377.7	5330.2
30°	5434.0	5551.0	5778.5	5412.4	4514.8	3999.2	3972.7	4153.7	4854.3	5577.0	5712.2
32.5°	5765.2	5859.1	6042.9	5595.2	4659.4	4086.9	4029.5	4267.5	4945.4	5745.3	6063.3
35°	6129.6	6228.4	6301.8	5769.1	4821.7	4213.4	4131.1	4448.0	5085.6	5916.5	6448.1
37.5°	6545.3	6643.5	6634.7	5928.1	5027.6	4422.6	4370.1	4733.9	5303.7	6086.0	6877.6
40°	6952.1	7052.6	6980.9	6102.0	5269.5	4767.6	4729.0	5163.5	5595.7	6302.9	7381.1
42.5°	7333.1	7441.8	7288.3	6266.5	5557.6	5202.7	5268.9	5716.6	5961.2	6570.1	7815.0
45°	7640.0	7751.0	7546.2	6426.6	5861.3	5730.4	5929.7	6329.4	6400.6	6795.9	8108.2
47.5°	7863.0	7967.9	7725.0	6586.7	6249.9	6375.8	6723.0	6972.0	6797.6	6991.9	8316.3
50°	8005.5	8087.2	7777.5	6787.1	6760.0	7128.8	7549.5	7670.9	7171.3	7168.6	8569.1
52.5°	8096.0	8133.0	7816.1	6996.3	7292.2	7948.6	8358.8	8396.9	7556.1	7362.9	8909.8
55°	8407.9	8437.7	8089.9	7249.7	7732.2	8666.9	9090.8	9055.5	7991.7	7743.3	9311.7
57.5°	8940.1	8971.6	8655.8	7614.1	8088.3	9110.7	9621.4	9684.9	8502.3	8277.6	9742.3
60°	9207.3	9265.8	9153.2	8075.6	8433.3	9394.5	9983.0	10185.6	9140.5	8982.1	10159.6
62.5°	8965.0	9050.0	9213.4	8587.4	8776.2	9550.7	10095.6	10365.0	9794.2	9803.0	10416.9
65°	8481.4	8549.3	8826.4	8867.8	8974.9	9531.4	9817.4	10114.4	10194.4	10557.1	10403.1
67.5°	7897.3	7922.7	8157.9	8889.9	8686.7	8950.6	8981.5	9201.3	9878.1	10824.3	9985.2
70°	7056.5	7070.3	7275.7	8150.7	7465.0	7523.0	7477.2	7521.9	8492.4	10173.4	8930.2
72.5°	5679.1	5713.9	6005.9	6768.9	5438.4	5271.1	5631.1	5611.2	6540.3	8595.1	6632.5
75°	4181.3	4241.5	4682.6	5452.2	3817.0	3452.6	3715.4	3785.5	4649.5	6648.5	4147.7
77.5°	2927.6	2972.3	3399.6	4008.0	2762.5	2468.8	2373.9	2457.2	3068.9	4809.6	2089.6
80°	1686.6	1703.1	1975.8	2314.3	1861.6	2129.9	1929.5	1986.9	1838.9	2139.8	898.8
82.5°	1103.6	1106.3	1212.9	1377.4	1159.3	1347.0	997.0	1274.7	1131.2	859.6	292.6
85°	596.2	599.5	703.3	977.7	656.4	371.0	218.1	447.7	699.5	197.1	80.0
87.5°	65.7	60.2	212.0	355.5	182.2	33.7	11.6	50.2	112.1	12.7	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°	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7
2.5°	4180.8	4135.0	4020.7	3899.8	3802.6	3711.5	3619.9	3507.8	3421.1	3403.5	3374.8
5°	4091.3	3946.2	3706.6	3465.9	3272.1	3027.5	2872.4	2751.5	2633.3	2626.2	2602.4
7.5°	3778.9	3587.9	3250.6	2917.7	2644.9	2412.0	2176.8	2019.5	1895.8	1852.2	1826.2
10°	3478.6	3263.8	2842.6	2462.8	2219.3	2013.4	1847.8	1683.2	1534.2	1431.5	1385.1
12.5°	3268.8	3031.4	2567.1	2239.7	2065.3	1869.8	1667.8	1462.4	1290.7	1167.1	1091.4
15°	3187.6	2934.2	2474.9	2151.4	1936.1	1688.8	1430.4	1195.8	1005.3	893.2	825.3
17.5°	3284.2	2989.4	2467.7	2043.7	1742.9	1435.4	1149.9	872.8	693.4	608.4	564.8
20°	3529.3	3165.0	2465.0	1911.8	1513.2	1135.0	779.0	574.1	465.4	417.9	397.5
22.5°	3876.0	3389.1	2487.0	1781.5	1274.2	811.0	537.7	421.8	366.0	340.6	329.0
25°	4322.1	3703.8	2549.4	1663.4	1049.5	605.1	419.0	353.3	314.1	294.3	286.0
27.5°	4797.4	4066.0	2646.6	1560.7	866.7	482.5	358.8	302.5	274.4	260.6	252.8
30°	5189.4	4485.5	2744.9	1446.4	734.2	420.7	328.5	276.0	243.5	234.6	227.5
32.5°	5532.2	4803.0	2814.4	1343.2	647.6	373.7	297.0	246.8	224.7	207.6	199.8
35°	5887.2	5067.4	2812.2	1270.9	587.9	338.4	270.5	220.8	194.3	174.5	168.4
37.5°	6271.4	5366.1	2764.2	1209.0	562.0	310.3	255.6	207.0	180.5	160.7	152.9
40°	6721.4	5679.6	2715.1	1151.1	554.8	287.6	245.1	196.0	167.8	148.5	140.8
42.5°	7159.7	5962.3	2672.0	1108.0	523.9	287.1	235.7	187.7	157.9	139.1	130.3
45°	7510.3	6225.6	2663.7	1082.0	491.3	297.0	230.8	182.2	150.2	131.4	123.1
47.5°	7801.8	6511.6	2716.7	1063.8	460.4	271.1	242.9	178.3	143.0	124.8	115.4
50°	8148.5	6862.7	2841.5	1034.0	427.8	244.0	278.2	179.4	136.9	118.1	108.2
52.5°	8632.1	7348.5	3024.8	983.8	383.1	219.2	273.8	180.5	130.3	111.0	101.0
55°	9174.2	7955.2	3221.8	900.4	320.7	186.6	234.6	172.8	117.6	103.2	93.9
57.5°	9743.9	8505.7	3338.9	801.0	255.1	161.2	187.7	157.3	103.8	92.7	86.7
60°	9833.4	8714.9	3285.3	679.0	202.6	140.2	139.1	160.1	92.7	81.7	77.3
62.5°	9610.9	8452.1	3026.4	570.3	169.5	123.1	114.3	139.7	83.9	72.9	68.5
65°	9183.0	7741.6	2606.8	514.0	157.3	105.4	95.0	98.3	73.4	63.5	59.6
67.5°	8587.9	6793.1	2140.4	482.0	155.7	90.5	81.2	74.5	63.5	55.2	51.9
70°	7371.2	5659.2	1707.5	464.3	151.3	76.2	68.5	60.7	53.0	46.9	44.2
72.5°	5425.1	4010.2	1328.3	445.0	152.4	60.7	59.6	50.2	42.5	36.4	35.3
75°	3134.6	2291.1	871.2	360.5	145.2	46.9	49.7	35.3	29.8	25.4	25.4
77.5°	1670.5	1397.3	331.8	150.2	53.0	29.8	28.2	21.0	18.8	15.5	14.9
80°	728.2	615.0	99.9	42.0	29.3	16.0	10.5	9.4	8.3	6.6	6.1
82.5°	257.8	222.5	32.6	20.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.5	42.0	0.0	5.0	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°	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7
2.5°	3316.2	3304.1	3232.3	3235.1	3247.8	3266.0	3222.9	3242.8	3296.4	3347.7	3367.0
5°	2564.3	2567.1	2523.5	2550.5	2574.8	2591.4	2521.8	2522.9	2565.4	2623.4	2653.8
7.5°	1806.9	1802.5	1804.7	1869.3	1915.1	1882.0	1907.9	1817.9	1823.5	1864.9	1834.0
10°	1343.2	1282.4	1248.2	1296.8	1347.0	1328.8	1284.1	1254.8	1275.3	1321.1	1317.8
12.5°	1055.5	968.3	917.0	882.2	923.6	889.4	888.3	862.9	835.3	840.2	913.7
15°	793.9	730.4	669.7	613.9	612.8	601.2	542.1	475.9	470.4	473.7	511.8
17.5°	546.0	524.5	499.6	451.6	438.9	390.3	332.9	306.4	293.1	299.2	311.9
20°	383.7	375.4	378.2	352.2	334.0	287.6	253.9	243.5	241.3	247.3	253.4
22.5°	318.0	303.1	301.4	289.8	271.6	237.9	219.7	213.6	210.9	216.4	220.8
25°	278.2	263.3	257.3	250.1	230.8	207.6	196.5	191.0	188.3	191.6	194.3
27.5°	245.1	231.3	225.8	220.8	202.1	185.5	176.7	171.7	169.5	170.6	173.3
30°	220.3	208.1	201.0	194.9	178.9	167.3	159.5	154.6	152.4	152.4	155.1
32.5°	194.3	187.7	181.1	173.3	158.4	150.7	143.0	137.5	135.3	135.8	138.0
35°	161.8	159.5	161.2	154.0	141.3	134.7	127.0	120.9	119.2	119.8	122.0
37.5°	143.5	133.6	139.7	135.8	128.6	119.8	109.9	104.3	101.6	103.2	104.3
40°	131.9	119.8	115.4	119.2	118.1	103.8	95.0	89.4	87.2	87.8	88.9
42.5°	122.0	107.7	97.7	97.2	103.8	90.5	81.2	76.2	73.4	73.4	74.5
45°	112.6	97.2	85.0	75.6	87.2	76.7	67.9	63.5	60.2	60.2	60.7
47.5°	105.4	88.3	74.0	61.8	65.7	62.9	55.8	51.3	48.0	48.0	48.6
50°	98.8	79.5	64.0	51.9	49.1	51.9	45.3	40.3	38.1	37.5	38.6
52.5°	91.6	70.7	54.7	44.2	38.6	39.2	35.3	32.0	29.3	29.3	30.4
55°	84.5	63.5	47.5	37.5	32.0	29.3	28.2	25.9	23.7	23.7	24.8
57.5°	77.3	55.8	40.3	30.9	25.4	23.2	23.2	21.5	19.9	19.9	21.0
60°	70.7	48.0	33.1	25.4	19.9	19.3	19.9	18.2	17.1	17.1	18.2
62.5°	62.9	40.9	27.1	21.0	16.0	15.5	17.1	16.0	14.9	14.9	16.0
65°	53.6	34.8	21.5	16.0	12.1	12.1	14.4	13.2	12.1	12.1	13.2
67.5°	45.3	29.3	16.6	11.6	8.8	9.4	12.1	11.0	10.5	10.5	11.6
70°	37.5	22.6	11.6	7.2	5.0	7.2	9.4	9.4	9.4	9.4	10.5
72.5°	28.2	15.5	6.6	2.8	2.2	5.0	7.7	8.8	8.3	8.3	9.9
75°	18.2	8.8	2.2	0.0	0.0	2.8	6.1	7.2	7.2	6.6	8.3
77.5°	10.5	2.8	0.0	0.0	0.0	0.0	3.9	3.3	2.8	2.2	3.9
80°	2.8	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-SA4A-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7	3909.7
2.5°	3444.9	3510.0	3601.7	3698.8	3848.4	3967.1	4083.6	4183.5	4222.2	4238.2
5°	2726.6	2822.2	2956.3	3128.5	3398.5	3641.4	3887.6	4135.5	4243.2	4270.2
7.5°	1956.5	2078.5	2249.1	2465.0	2781.3	3096.0	3439.9	3803.7	3970.4	4012.4
10°	1448.1	1597.1	1792.6	2020.0	2322.0	2645.5	3020.3	3436.0	3626.5	3682.3
12.5°	1027.4	1228.9	1490.6	1767.2	2028.8	2317.6	2696.8	3155.0	3354.9	3415.1
15°	603.4	798.3	1108.0	1478.4	1813.5	2106.1	2491.5	3011.0	3231.2	3292.0
17.5°	346.1	443.3	677.4	1090.3	1545.2	1950.4	2426.9	3046.8	3306.3	3362.6
20°	264.4	295.4	390.3	702.2	1231.7	1797.5	2426.9	3250.0	3569.6	3652.5
22.5°	231.3	253.9	292.6	419.0	906.5	1633.6	2455.0	3543.7	3961.6	4053.3
25°	205.4	225.8	258.9	315.2	618.3	1438.7	2521.8	3904.2	4423.1	4541.8
27.5°	183.8	203.2	233.0	276.0	422.9	1203.5	2611.8	4327.1	4932.1	5027.1
30°	164.5	182.7	209.8	240.1	326.3	936.9	2688.6	4725.7	5331.8	5434.0
32.5°	146.3	162.9	187.1	209.8	267.2	692.8	2696.8	5041.4	5663.6	5765.2
35°	129.2	144.1	166.2	183.8	221.4	547.1	2568.2	5315.3	5995.4	6129.6
37.5°	112.6	127.0	146.3	159.5	194.9	446.1	2371.7	5620.6	6421.1	6545.3
40°	97.2	109.9	129.7	138.6	184.4	342.8	2158.0	5940.8	6838.4	6952.1
42.5°	82.8	95.0	114.3	131.4	161.8	256.2	1927.3	6241.1	7213.8	7333.1
45°	69.0	81.7	101.0	139.1	134.2	191.6	1680.5	6440.4	7510.3	7640.0
47.5°	55.8	70.1	96.6	132.5	107.1	140.8	1485.1	6629.2	7735.0	7863.0
50°	44.7	59.1	108.8	118.1	87.8	107.7	1403.3	6798.1	7882.4	8005.5
52.5°	36.4	49.7	102.7	90.5	73.4	88.9	1447.5	7071.9	8018.7	8096.0
55°	30.4	39.2	61.8	62.9	62.4	75.6	1502.2	7465.0	8371.5	8407.9
57.5°	26.5	31.5	43.1	48.6	52.4	67.4	1503.3	8029.2	8917.5	8940.1
60°	22.6	27.6	35.9	39.2	45.3	60.2	1448.6	8226.3	9132.2	9207.3
62.5°	19.9	24.3	29.8	32.6	38.1	54.1	1320.5	7940.9	8837.4	8965.0
65°	17.7	22.1	24.8	27.6	33.7	48.6	1109.6	7370.1	8348.3	8481.4
67.5°	15.5	19.3	22.1	24.8	30.4	43.1	817.1	6707.0	7786.9	7897.3
70°	13.8	17.1	19.9	22.1	26.5	36.4	495.8	5691.2	7010.7	7056.5
72.5°	13.2	15.5	18.2	19.9	23.2	32.0	251.2	4182.4	5604.6	5679.1
75°	11.6	13.8	16.6	17.7	20.4	27.6	102.1	2747.1	4061.5	4181.3
77.5°	9.4	12.7	14.9	16.0	17.7	22.6	51.9	1755.6	2850.3	2927.6
80°	3.3	9.4	12.7	13.2	14.9	16.6	34.2	961.1	1653.4	1686.6
82.5°	0.0	6.1	9.9	9.4	10.5	12.7	22.1	457.1	1091.4	1103.6
85°	0.0	2.8	7.7	6.1	4.4	8.8	7.7	99.9	572.5	596.2
87.5°	0.0	0.0	0.6	2.8	2.2	3.3	1.1	0.6	51.9	65.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)