

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: P324079

Luminaire Tested: **GAN-SA5B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324079
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-SA5B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 17708 lumens
Efficiency: N/A
Efficacy: 84.3 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): 210
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

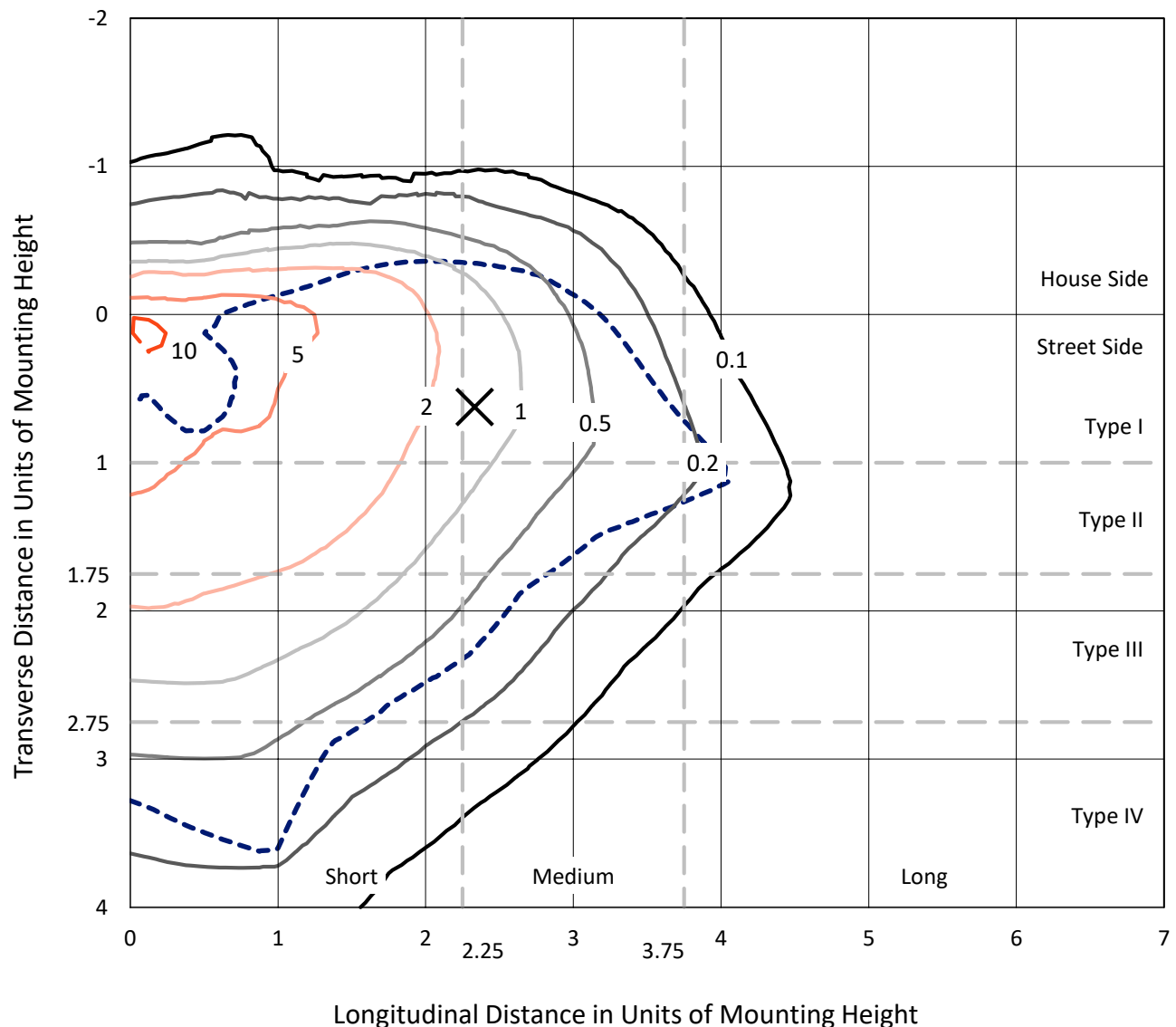


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Iso-Footcandle Lines of Horizontal Illumination

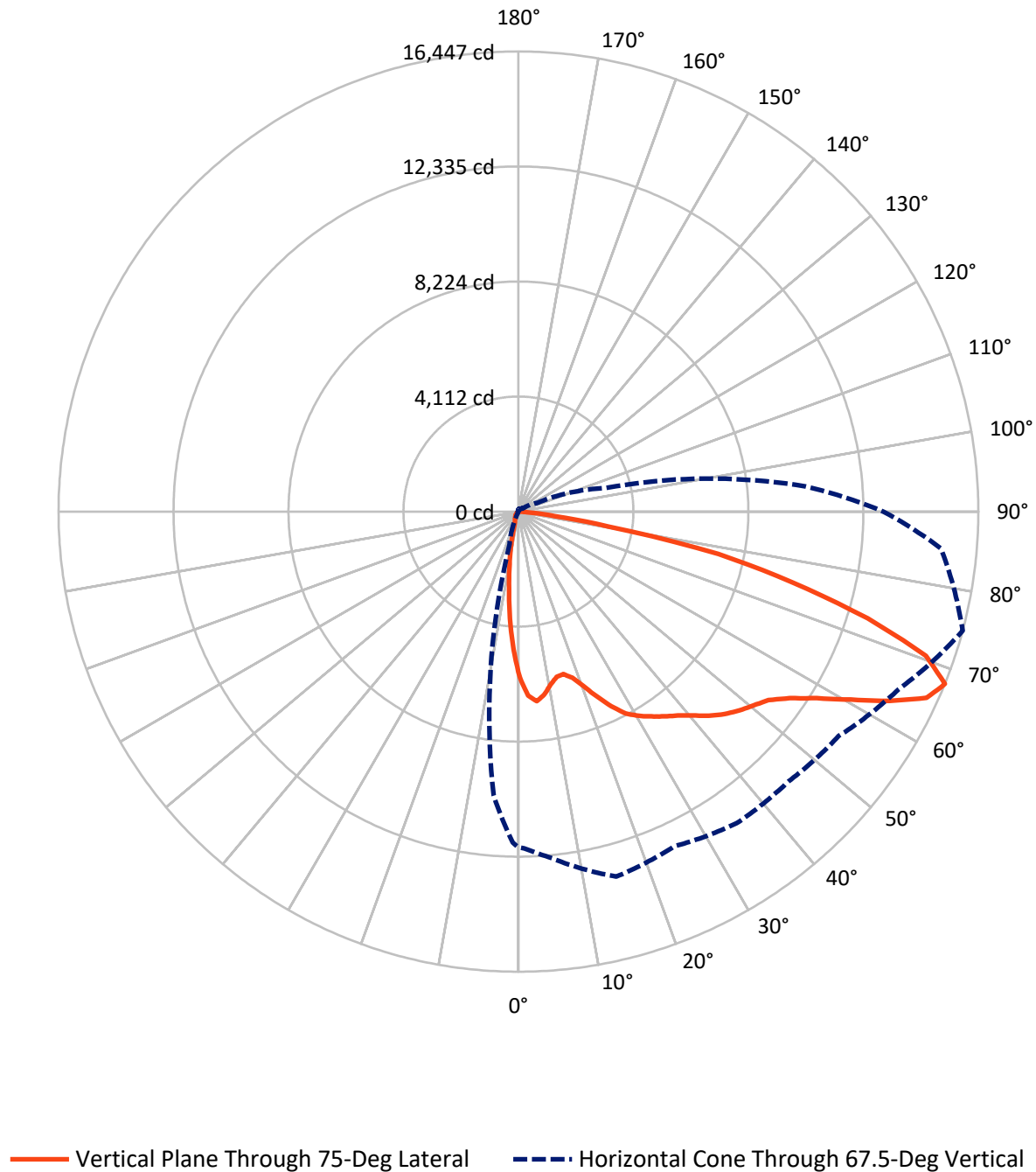
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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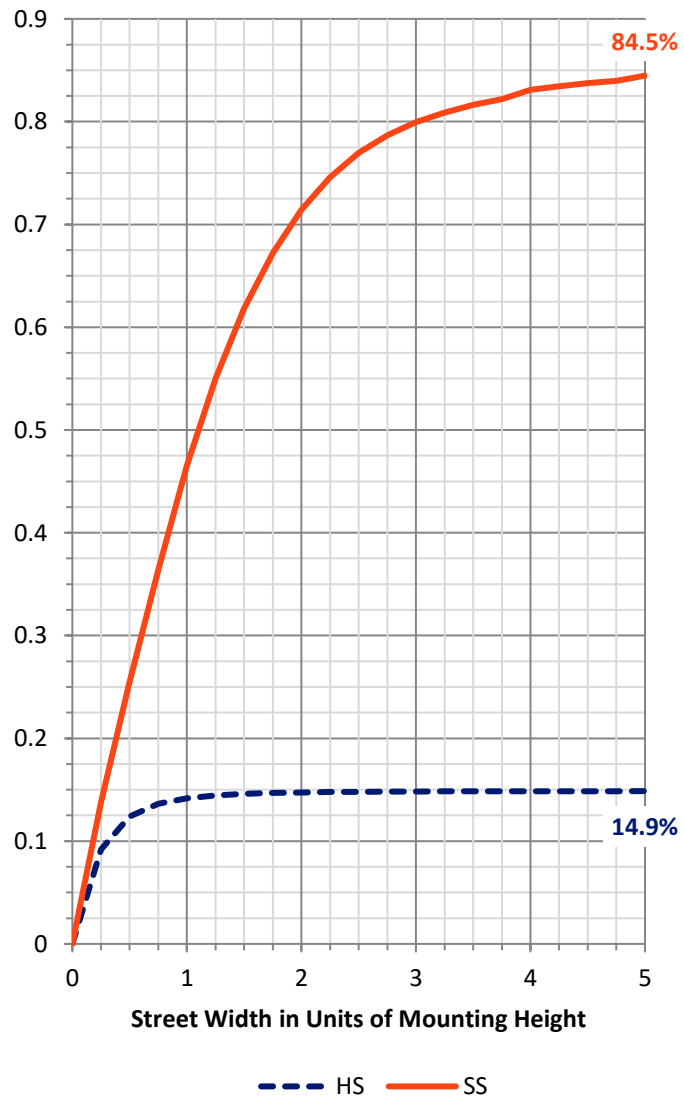
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2657.3	0.0	2657.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15050.7	0.0	15050.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	17708.0	0.0	17708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.6	2.5
10°-20°	887.3	5.0
20°-30°	1255.3	7.1
30°-40°	1845.6	10.4
40°-50°	2652.8	15.0
50°-60°	3734.4	21.1
60°-70°	4361.4	24.6
70°-80°	2225.1	12.6
80°-90°	295.6	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°	17708.0	100.0
0°-180°	17708.0	100.0

Coefficient of Utilization



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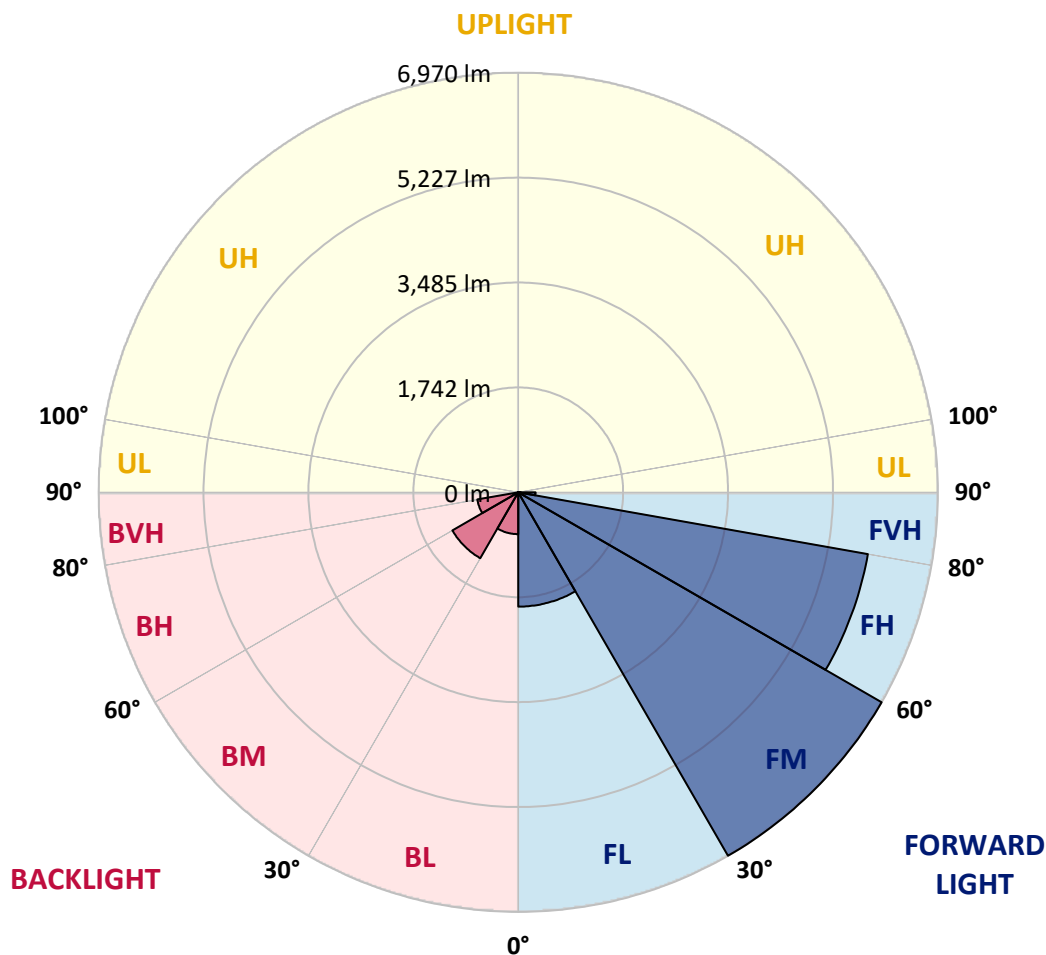
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1898.3	10.7			
FM	(30°-60°)	6969.6	39.4			
FH	(60°-80°)	5896.3	33.3			G3/7500
FVH	(80°-90°)	286.6	1.6			G3/500
BL	(0°-30°)	694.9	3.9	B2/1000		
BM	(30°-60°)	1263.2	7.1	B2/2500		
BH	(60°-80°)	690.2	3.9	B2/1000		G2/1000
BVH	(80°-90°)	9.0	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°	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7
2.5°	6439.8	6449.9	6501.9	6622.7	6754.4	6764.5	6853.4	6762.0	6730.9	6583.3	6430.6
5°	6488.5	6527.1	6705.8	7060.6	7368.5	7467.4	7537.9	7358.4	7169.6	6808.9	6423.9
7.5°	6096.8	6161.3	6442.4	7108.4	7658.7	7902.0	7948.1	7667.1	7204.9	6611.0	6032.2
10°	5595.1	5668.9	6007.8	6826.6	7582.4	7999.3	8063.0	7694.8	7030.4	6290.5	5608.5
12.5°	5189.1	5275.5	5622.0	6509.5	7319.8	7781.2	7907.0	7601.7	6879.4	6063.2	5319.1
15°	5002.1	5101.0	5465.1	6304.8	7028.7	7391.9	7496.0	7364.3	6795.5	6027.1	5252.0
17.5°	5109.4	5216.8	5592.6	6322.4	6755.3	6910.4	6994.3	7048.0	6795.5	6244.4	5448.3
20°	5549.8	5665.6	6063.2	6501.1	6528.8	6470.9	6560.6	6749.4	6874.4	6657.1	5919.8
22.5°	6158.8	6294.7	6743.5	6807.3	6418.0	6199.1	6210.8	6507.0	7017.8	7180.6	6574.1
25°	6901.2	7067.3	7523.6	7263.6	6464.2	6037.2	6033.0	6307.3	7157.9	7704.8	7303.0
27.5°	7638.6	7821.4	8222.4	7820.6	6654.6	6007.8	5999.5	6246.9	7294.6	8171.2	8099.1
30°	8256.8	8434.6	8780.2	8224.1	6860.1	6076.6	6036.4	6311.5	7376.0	8474.1	8679.6
32.5°	8760.1	8902.7	9182.0	8501.7	7079.9	6210.0	6122.8	6484.3	7514.4	8729.9	9213.1
35°	9313.7	9463.9	9575.5	8766.0	7326.5	6402.1	6277.1	6758.6	7727.5	8989.9	9797.8
37.5°	9945.4	10094.7	10081.3	9007.6	7639.4	6720.0	6640.3	7193.1	8058.8	9247.5	10450.4
40°	10563.6	10716.3	10607.3	9271.8	8006.8	7244.3	7185.6	7845.8	8502.6	9577.1	11215.4
42.5°	11142.4	11307.7	11074.5	9521.8	8444.7	7905.3	8006.0	8686.3	9057.9	9983.1	11874.8
45°	11608.8	11777.4	11466.2	9765.0	8906.1	8707.3	9010.1	9617.4	9725.6	10326.2	12320.2
47.5°	11947.7	12107.1	11738.0	10008.3	9496.6	9687.9	10215.5	10593.8	10328.8	10624.0	12636.4
50°	12164.2	12288.3	11817.7	10312.8	10271.7	10832.1	11471.3	11655.8	10896.7	10892.5	13020.6
52.5°	12301.7	12357.9	11876.4	10630.7	11080.4	12077.8	12701.0	12758.9	11481.3	11187.7	13538.2
55°	12775.7	12821.0	12292.5	11015.8	11748.9	13169.1	13813.3	13759.6	12143.2	11765.7	14148.9
57.5°	13584.3	13632.1	13152.3	11569.4	12290.0	13843.5	14619.5	14715.9	12919.1	12577.7	14803.2
60°	13990.3	14079.2	13908.1	12270.7	12814.3	14274.7	15168.9	15476.8	13888.8	13648.1	15437.3
62.5°	13622.1	13751.3	13999.6	13048.3	13335.2	14512.1	15340.0	15749.4	14882.0	14895.4	15828.2
65°	12887.2	12990.4	13411.5	13474.4	13637.2	14482.7	14917.3	15368.6	15490.2	16041.3	15807.3
67.5°	11999.7	12038.3	12395.7	13508.0	13199.3	13600.3	13647.2	13981.1	15009.5	16447.3	15172.3
70°	10722.2	10743.1	11055.2	12384.8	11342.9	11431.0	11361.4	11429.3	12904.0	15458.3	13569.2
72.5°	8629.2	8682.1	9125.8	10285.1	8263.5	8009.3	8556.3	8526.1	9937.8	13060.0	10077.9
75°	6353.4	6444.9	7115.1	8284.5	5799.8	5246.2	5645.5	5752.0	7064.8	10102.3	6302.3
77.5°	4448.4	4516.4	5165.6	6090.0	4197.6	3751.3	3607.1	3733.7	4663.2	7308.1	3175.0
80°	2562.7	2587.9	3002.2	3516.5	2828.6	3236.3	2931.8	3019.0	2794.2	3251.4	1365.6
82.5°	1676.9	1681.1	1843.0	2092.9	1761.6	2046.8	1515.0	1936.9	1718.8	1306.1	444.6
85°	906.0	911.0	1068.7	1485.6	997.4	563.7	331.3	680.3	1062.8	299.5	121.6
87.5°	99.8	91.4	322.1	540.2	276.8	51.2	17.6	76.3	170.3	19.3	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°	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7
2.5°	6352.6	6283.0	6109.3	5925.6	5778.0	5639.6	5500.3	5330.0	5198.3	5171.5	5127.9
5°	6216.7	5996.1	5632.0	5266.3	4971.9	4600.2	4364.5	4180.8	4001.3	3990.4	3954.3
7.5°	5741.9	5451.7	4939.1	4433.3	4018.9	3664.9	3307.6	3068.5	2880.6	2814.3	2774.9
10°	5285.6	4959.3	4319.2	3742.1	3372.2	3059.3	2807.6	2557.7	2331.2	2175.1	2104.7
12.5°	4966.8	4606.1	3900.6	3403.2	3138.1	2841.2	2534.2	2222.1	1961.2	1773.3	1658.4
15°	4843.5	4458.5	3760.6	3269.0	2941.8	2566.0	2173.5	1816.9	1527.5	1357.3	1254.1
17.5°	4990.3	4542.4	3749.7	3105.4	2648.2	2181.0	1747.3	1326.2	1053.6	924.4	858.1
20°	5362.8	4809.1	3745.5	2904.9	2299.3	1724.7	1183.6	872.4	707.2	635.0	604.0
22.5°	5889.6	5149.7	3779.0	2707.0	1936.1	1232.3	817.0	640.9	556.2	517.6	500.0
25°	6567.4	5627.8	3873.8	2527.5	1594.7	919.4	636.7	536.9	477.3	447.1	434.5
27.5°	7289.6	6178.1	4021.4	2371.4	1317.0	733.2	545.3	459.7	416.9	395.9	384.2
30°	7885.2	6815.7	4170.8	2197.8	1115.7	639.2	499.1	419.4	369.9	356.5	345.6
32.5°	8406.1	7298.0	4276.5	2040.9	984.0	567.9	451.3	375.0	341.4	315.4	303.7
35°	8945.5	7699.8	4273.1	1931.0	893.4	514.2	411.0	335.5	295.3	265.1	255.8
37.5°	9529.3	8153.6	4200.1	1837.1	853.9	471.4	388.4	314.6	274.3	244.1	232.4
40°	10213.0	8630.1	4125.5	1749.0	843.0	437.0	372.4	297.8	255.0	225.7	213.9
42.5°	10879.0	9059.6	4060.0	1683.6	796.1	436.2	358.2	285.2	239.9	211.4	198.0
45°	11411.7	9459.7	4047.4	1644.1	746.6	451.3	350.6	276.8	228.2	199.6	187.1
47.5°	11854.6	9894.2	4128.0	1616.5	699.6	411.9	369.1	270.9	217.3	189.6	175.3
50°	12381.4	10427.7	4317.6	1571.2	650.1	370.8	422.8	272.6	208.0	179.5	164.4
52.5°	13116.2	11165.9	4596.1	1494.8	582.2	333.0	416.1	274.3	198.0	168.6	153.5
55°	13940.0	12087.8	4895.5	1368.2	487.4	283.5	356.5	262.6	178.7	156.9	142.6
57.5°	14805.7	12924.2	5073.4	1217.2	387.5	244.9	285.2	239.1	157.7	140.9	131.7
60°	14941.6	13242.1	4992.0	1031.8	307.9	213.1	211.4	243.3	140.9	124.1	117.4
62.5°	14603.5	12842.8	4598.6	866.5	257.5	187.1	173.6	212.2	127.5	110.7	104.0
65°	13953.4	11763.2	3961.0	781.0	239.1	160.2	144.3	149.3	111.6	96.5	90.6
67.5°	13049.1	10322.0	3252.2	732.3	236.6	137.6	123.3	113.2	96.5	83.9	78.9
70°	11200.3	8599.0	2594.6	705.5	229.8	115.8	104.0	92.3	80.5	71.3	67.1
72.5°	8243.4	6093.4	2018.3	676.1	231.5	92.3	90.6	76.3	64.6	55.4	53.7
75°	4763.0	3481.2	1323.7	547.8	220.6	71.3	75.5	53.7	45.3	38.6	38.6
77.5°	2538.4	2123.1	504.1	228.2	80.5	45.3	42.8	31.9	28.5	23.5	22.6
80°	1106.4	934.5	151.8	63.8	44.5	24.3	15.9	14.3	12.6	10.1	9.2
82.5°	391.7	338.1	49.5	31.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.9	63.8	0.0	7.5	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°	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7
2.5°	5039.0	5020.5	4911.5	4915.7	4935.0	4962.6	4897.2	4927.4	5008.8	5086.8	5116.1
5°	3896.5	3900.6	3834.4	3875.5	3912.4	3937.6	3831.9	3833.5	3898.1	3986.2	4032.3
7.5°	2745.6	2738.8	2742.2	2840.3	2910.0	2859.6	2899.1	2762.3	2770.7	2833.6	2786.7
10°	2040.9	1948.6	1896.6	1970.5	2046.8	2019.1	1951.2	1906.7	1937.7	2007.4	2002.3
12.5°	1603.9	1471.3	1393.3	1340.5	1403.4	1351.4	1349.7	1311.1	1269.2	1276.7	1388.3
15°	1206.3	1109.8	1017.5	932.8	931.1	913.5	823.8	723.1	714.7	719.7	777.6
17.5°	829.6	796.9	759.2	686.2	666.9	593.1	505.8	465.6	445.4	454.7	473.9
20°	583.0	570.4	574.6	535.2	507.5	437.0	385.9	369.9	366.6	375.8	385.0
22.5°	483.2	460.5	458.0	440.4	412.7	361.5	333.9	324.6	320.4	328.8	335.5
25°	422.8	400.1	390.9	380.0	350.6	315.4	298.6	290.2	286.0	291.1	295.3
27.5°	372.4	351.5	343.1	335.5	307.0	281.9	268.4	260.9	257.5	259.2	263.4
30°	334.7	316.2	305.3	296.1	271.8	254.2	242.4	234.9	231.5	231.5	235.7
32.5°	295.3	285.2	275.1	263.4	240.7	229.0	217.3	208.9	205.5	206.4	209.7
35°	245.8	242.4	244.9	234.0	214.7	204.7	192.9	183.7	181.2	182.0	185.4
37.5°	218.1	203.0	212.2	206.4	195.5	182.0	166.9	158.5	154.3	156.9	158.5
40°	200.5	182.0	175.3	181.2	179.5	157.7	144.3	135.9	132.5	133.4	135.1
42.5°	185.4	163.6	148.5	147.6	157.7	137.6	123.3	115.8	111.6	111.6	113.2
45°	171.1	147.6	129.2	114.9	132.5	116.6	103.2	96.5	91.4	91.4	92.3
47.5°	160.2	134.2	112.4	94.0	99.8	95.6	84.7	78.0	73.0	73.0	73.8
50°	150.2	120.8	97.3	78.9	74.7	78.9	68.8	61.2	57.9	57.0	58.7
52.5°	139.2	107.4	83.0	67.1	58.7	59.6	53.7	48.7	44.5	44.5	46.1
55°	128.3	96.5	72.1	57.0	48.7	44.5	42.8	39.4	36.1	36.1	37.7
57.5°	117.4	84.7	61.2	47.0	38.6	35.2	35.2	32.7	30.2	30.2	31.9
60°	107.4	73.0	50.3	38.6	30.2	29.4	30.2	27.7	26.0	26.0	27.7
62.5°	95.6	62.1	41.1	31.9	24.3	23.5	26.0	24.3	22.6	22.6	24.3
65°	81.4	52.8	32.7	24.3	18.5	18.5	21.8	20.1	18.5	18.5	20.1
67.5°	68.8	44.5	25.2	17.6	13.4	14.3	18.5	16.8	15.9	15.9	17.6
70°	57.0	34.4	17.6	10.9	7.5	10.9	14.3	14.3	14.3	14.3	15.9
72.5°	42.8	23.5	10.1	4.2	3.4	7.5	11.7	13.4	12.6	12.6	15.1
75°	27.7	13.4	3.4	0.0	0.0	4.2	9.2	10.9	10.9	10.1	12.6
77.5°	15.9	4.2	0.0	0.0	0.0	0.0	5.9	5.0	4.2	3.4	5.9
80°	4.2	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-SA5B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7	5940.7
2.5°	5234.4	5333.4	5472.7	5620.3	5847.6	6028.0	6205.0	6356.8	6415.5	6439.8
5°	4143.1	4288.2	4492.0	4753.8	5164.0	5533.1	5907.2	6283.8	6447.4	6488.5
7.5°	2972.9	3158.3	3417.5	3745.5	4226.1	4704.3	5226.9	5779.7	6033.0	6096.8
10°	2200.3	2426.8	2723.7	3069.3	3528.2	4019.8	4589.3	5221.0	5510.4	5595.1
12.5°	1561.1	1867.3	2264.9	2685.2	3082.8	3521.5	4097.8	4794.0	5097.7	5189.1
15°	916.9	1213.0	1683.6	2246.4	2755.6	3200.2	3785.7	4575.1	4909.8	5002.1
17.5°	526.0	673.6	1029.3	1656.7	2347.9	2963.7	3687.6	4629.6	5023.9	5109.4
20°	401.8	448.8	593.1	1067.0	1871.5	2731.3	3687.6	4938.3	5424.0	5549.8
22.5°	351.5	385.9	444.6	636.7	1377.4	2482.2	3730.4	5384.6	6019.6	6158.8
25°	312.1	343.1	393.4	479.0	939.5	2186.0	3831.9	5932.3	6720.9	6901.2
27.5°	279.3	308.7	354.0	419.4	642.6	1828.7	3968.6	6574.9	7494.3	7638.6
30°	250.0	277.7	318.8	364.9	495.8	1423.5	4085.2	7180.6	8101.6	8256.8
32.5°	222.3	247.5	284.4	318.8	406.0	1052.8	4097.8	7660.4	8605.8	8760.1
35°	196.3	218.9	252.5	279.3	336.4	831.3	3902.3	8076.4	9109.9	9313.7
37.5°	171.1	192.9	222.3	242.4	296.1	677.8	3603.7	8540.3	9756.7	9945.4
40°	147.6	166.9	197.1	210.6	280.2	520.9	3279.1	9026.9	10390.8	10563.6
42.5°	125.8	144.3	173.6	199.6	245.8	389.2	2928.4	9483.2	10961.2	11142.4
45°	104.9	124.1	153.5	211.4	203.8	291.1	2553.5	9786.0	11411.7	11608.8
47.5°	84.7	106.5	146.8	201.3	162.7	213.9	2256.5	10072.9	11753.1	11947.7
50°	67.9	89.8	165.3	179.5	133.4	163.6	2132.4	10329.6	11977.1	12164.2
52.5°	55.4	75.5	156.0	137.6	111.6	135.1	2199.5	10745.7	12184.3	12301.7
55°	46.1	59.6	94.0	95.6	94.8	114.9	2282.5	11342.9	12720.3	12775.7
57.5°	40.3	47.8	65.4	73.8	79.7	102.3	2284.2	12200.2	13549.9	13584.3
60°	34.4	41.9	54.5	59.6	68.8	91.4	2201.1	12499.7	13876.2	13990.3
62.5°	30.2	36.9	45.3	49.5	57.9	82.2	2006.5	12066.0	13428.3	13622.1
65°	26.8	33.6	37.7	41.9	51.2	73.8	1686.1	11198.6	12685.1	12887.2
67.5°	23.5	29.4	33.6	37.7	46.1	65.4	1241.5	10191.2	11832.0	11999.7
70°	21.0	26.0	30.2	33.6	40.3	55.4	753.3	8647.7	10652.5	10722.2
72.5°	20.1	23.5	27.7	30.2	35.2	48.7	381.7	6355.1	8516.0	8629.2
75°	17.6	21.0	25.2	26.8	31.0	41.9	155.2	4174.1	6171.4	6353.4
77.5°	14.3	19.3	22.6	24.3	26.8	34.4	78.9	2667.5	4331.0	4448.4
80°	5.0	14.3	19.3	20.1	22.6	25.2	52.0	1460.4	2512.4	2562.7
82.5°	0.0	9.2	15.1	14.3	15.9	19.3	33.6	694.6	1658.4	1676.9
85°	0.0	4.2	11.7	9.2	6.7	13.4	11.7	151.8	869.9	906.0
87.5°	0.0	0.0	0.8	4.2	3.4	5.0	1.7	0.8	78.9	99.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)