

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: P324088

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324088
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-SA4C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 17689 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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

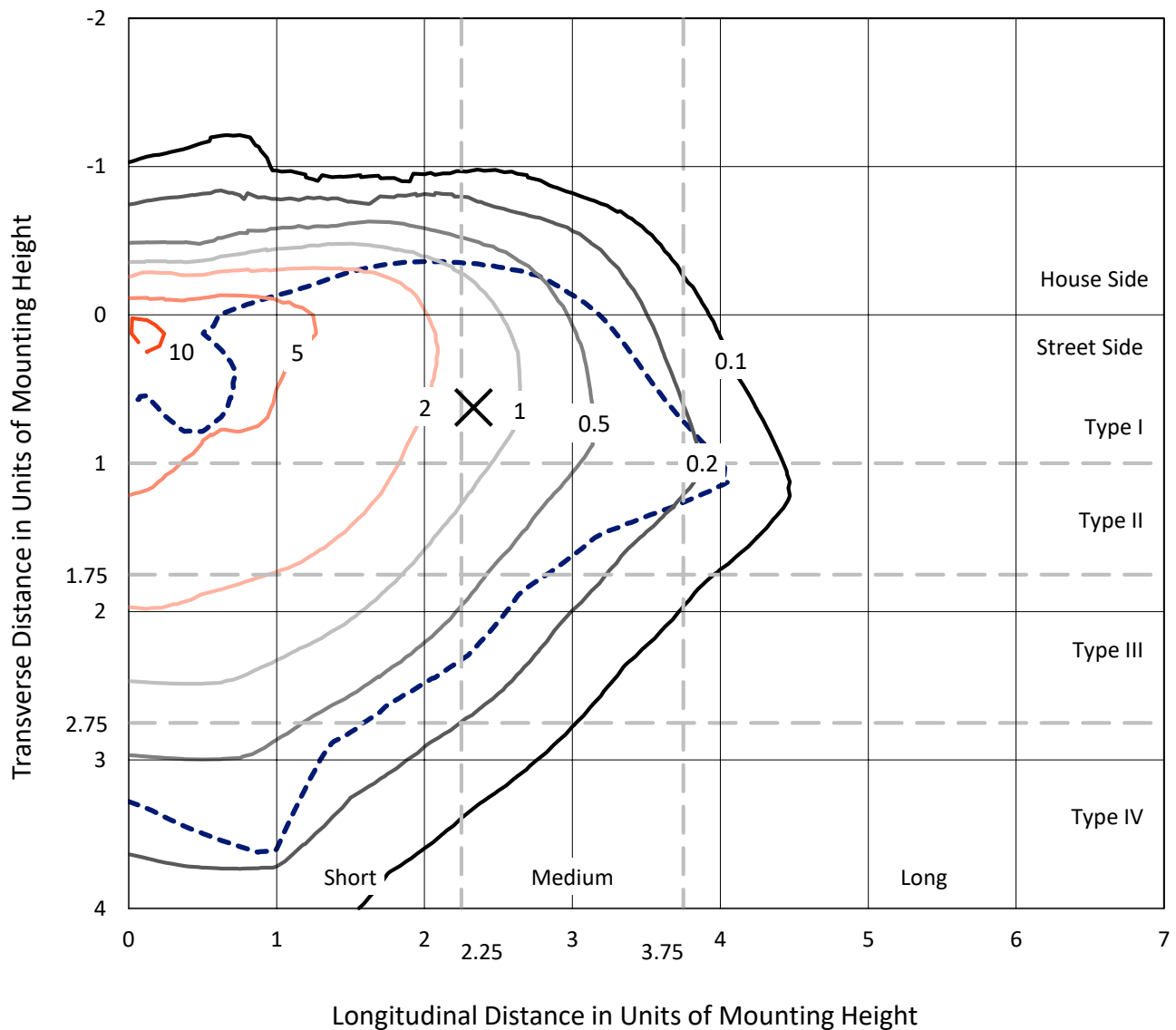


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Iso-Footcandle Lines of Horizontal Illumination

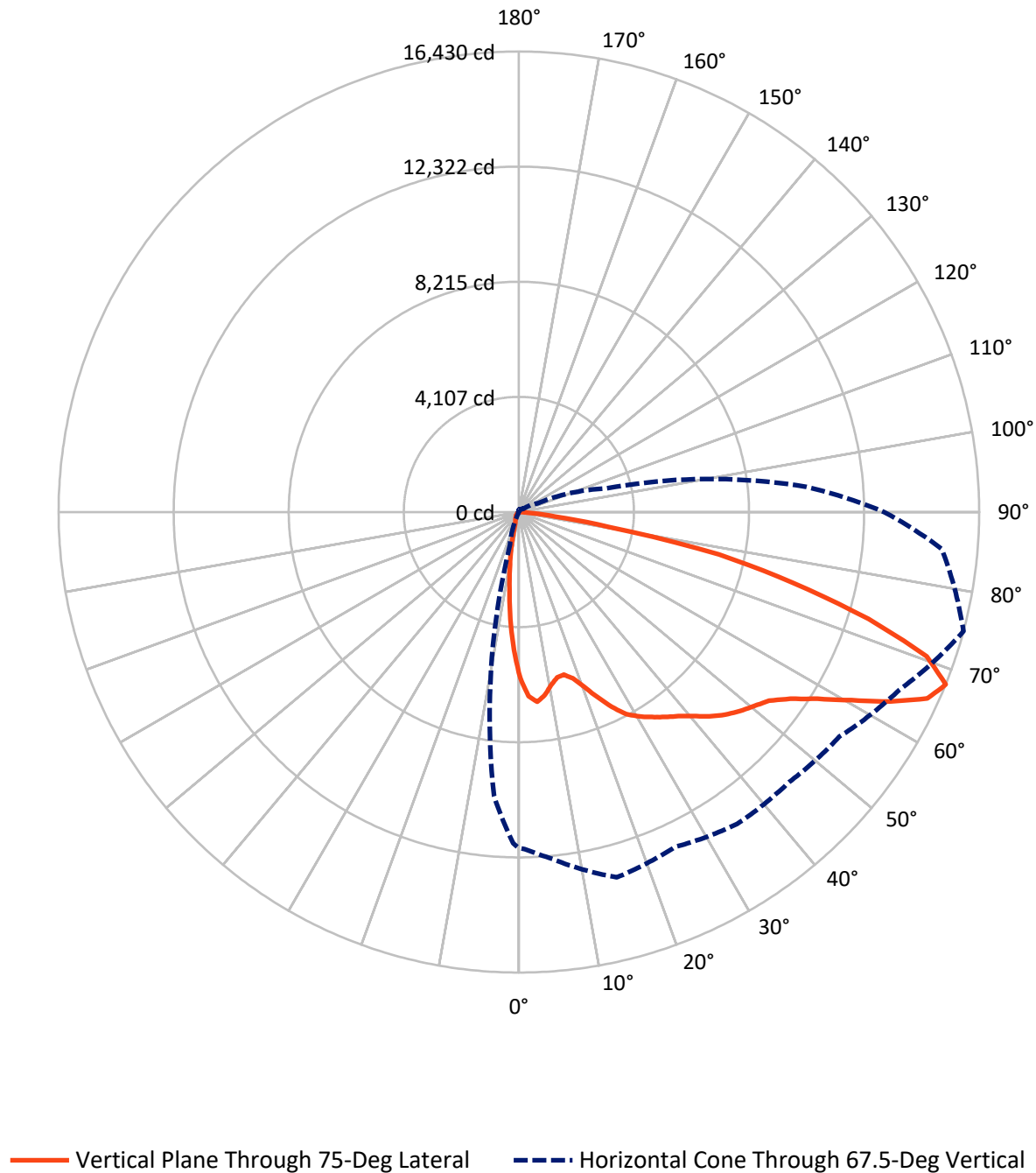
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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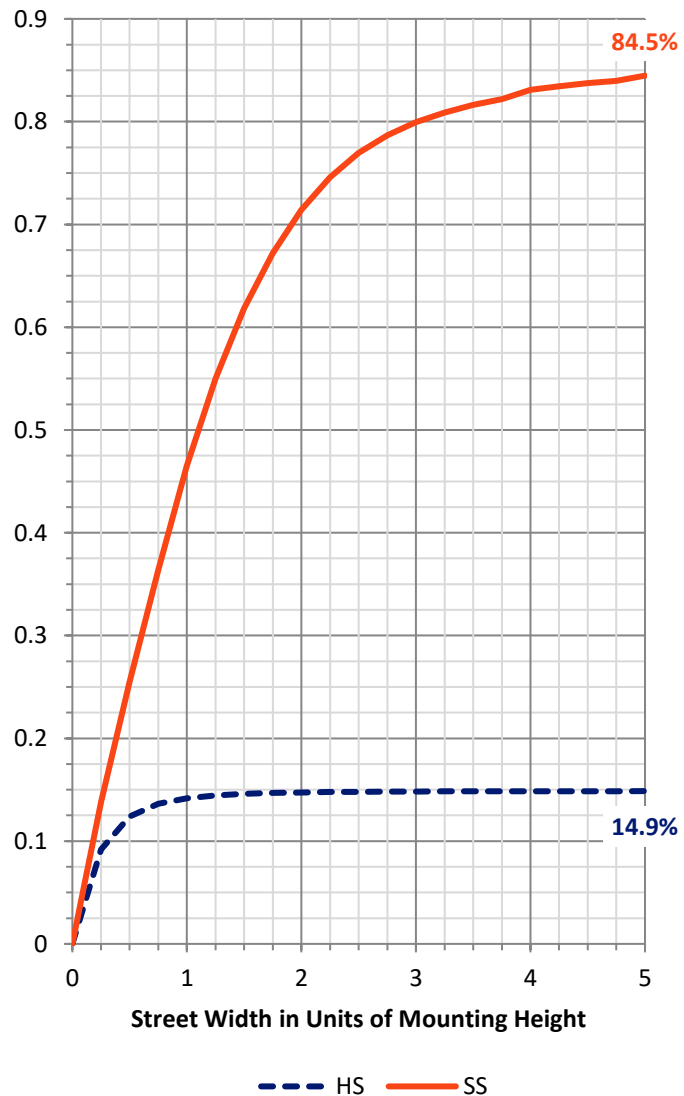
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2654.4	0.0	2654.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15034.6	0.0	15034.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	17689.0	0.0	17689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.1	2.5
10°-20°	886.3	5.0
20°-30°	1253.9	7.1
30°-40°	1843.6	10.4
40°-50°	2649.9	15.0
50°-60°	3730.4	21.1
60°-70°	4356.7	24.6
70°-80°	2222.7	12.6
80°-90°	295.3	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°	17689.0	100.0
0°-180°	17689.0	100.0

Coefficient of Utilization



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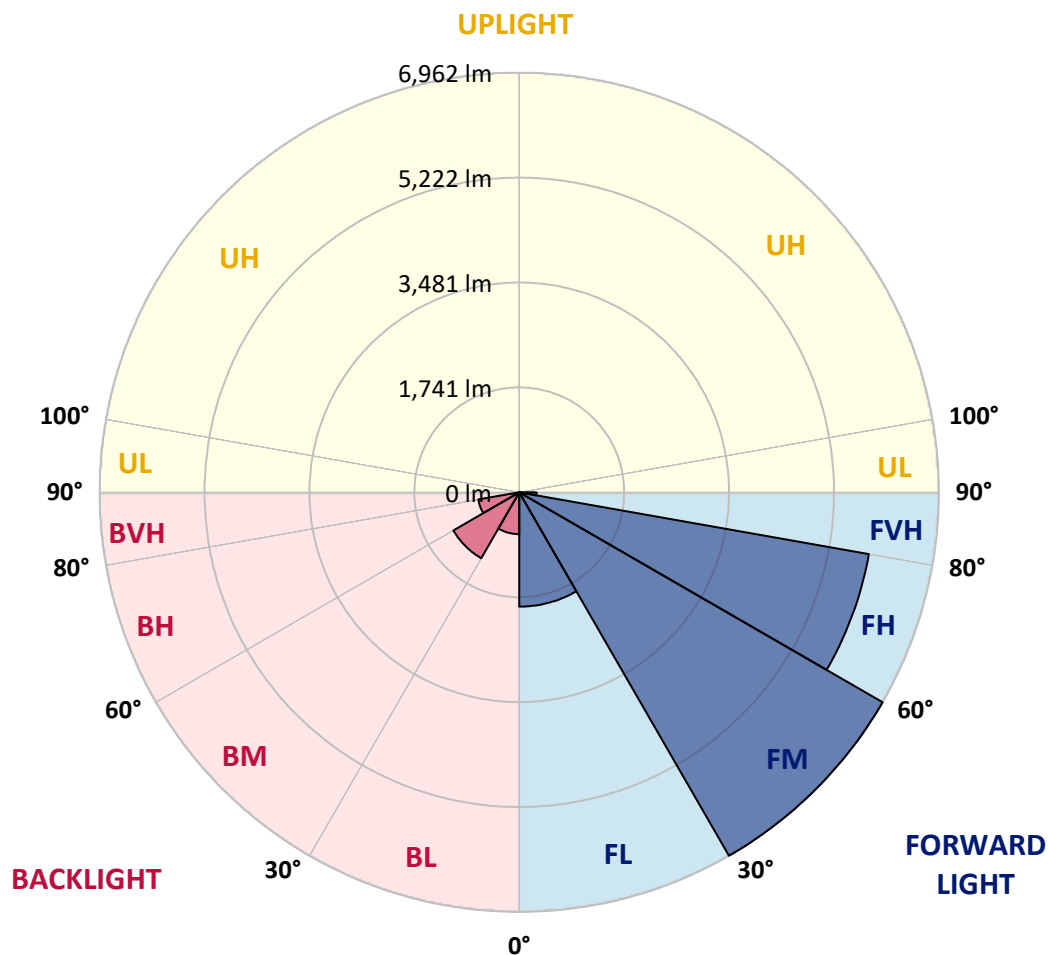
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1896.3	10.7			
FM	(30°-60°)	6962.1	39.4			
FH	(60°-80°)	5889.9	33.3			G3/7500
FVH	(80°-90°)	286.3	1.6			G3/500
BL	(0°-30°)	694.2	3.9	B2/1000		
BM	(30°-60°)	1261.8	7.1	B2/2500		
BH	(60°-80°)	689.5	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°	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4
2.5°	6432.9	6443.0	6494.9	6615.6	6747.2	6757.2	6846.0	6754.7	6723.7	6576.2	6423.7
5°	6481.5	6520.1	6698.6	7053.0	7360.5	7459.4	7529.8	7350.5	7162.0	6801.6	6417.0
7.5°	6090.2	6154.7	6435.5	7100.8	7650.5	7893.5	7939.6	7658.9	7197.1	6603.9	6025.7
10°	5589.1	5662.9	6001.4	6819.2	7574.2	7990.7	8054.4	7686.5	7022.9	6283.8	5602.5
12.5°	5183.6	5269.9	5615.9	6502.5	7311.9	7772.8	7898.5	7593.5	6872.0	6056.7	5313.4
15°	4996.7	5095.6	5459.2	6298.0	7021.2	7384.0	7487.9	7356.4	6788.2	6020.7	5246.4
17.5°	5103.9	5211.2	5586.6	6315.6	6748.0	6903.0	6986.8	7040.5	6788.2	6237.7	5442.5
20°	5543.9	5659.5	6056.7	6494.1	6521.8	6463.9	6553.6	6742.1	6867.0	6650.0	5913.4
22.5°	6152.2	6288.0	6736.3	6800.0	6411.2	6192.4	6204.2	6500.0	7010.3	7172.8	6567.0
25°	6893.8	7059.7	7515.6	7255.8	6457.2	6030.7	6026.5	6300.5	7150.2	7696.6	7295.2
27.5°	7630.4	7813.0	8213.6	7812.2	6647.5	6001.4	5993.0	6240.2	7286.8	8162.5	8090.4
30°	8247.9	8425.6	8770.8	8215.3	6852.7	6070.1	6029.9	6304.7	7368.1	8465.0	8670.3
32.5°	8750.7	8893.2	9172.2	8492.6	7072.3	6203.3	6116.2	6477.3	7506.3	8720.5	9203.2
35°	9303.8	9453.7	9565.2	8756.6	7318.6	6395.2	6270.4	6751.4	7719.2	8980.3	9787.2
37.5°	9934.7	10083.9	10070.5	8997.9	7631.2	6712.8	6633.2	7185.4	8050.2	9237.6	10439.2
40°	10552.3	10704.8	10595.9	9261.9	7998.2	7236.5	7177.9	7837.3	8493.5	9566.9	11203.4
42.5°	11130.5	11295.6	11062.6	9511.6	8435.6	7896.8	7997.4	8677.0	9048.2	9972.4	11862.0
45°	11596.4	11764.8	11453.9	9754.6	8896.5	8697.9	9000.4	9607.1	9715.2	10315.2	12307.0
47.5°	11934.9	12094.1	11725.4	9997.6	9486.4	9677.5	10204.5	10582.5	10317.7	10612.6	12622.9
50°	12151.1	12275.1	11805.0	10301.7	10260.7	10820.4	11459.0	11643.3	10885.0	10880.8	13006.6
52.5°	12288.5	12344.7	11863.7	10619.3	11068.5	12064.8	12687.4	12745.2	11469.0	11175.7	13523.7
55°	12762.0	12807.2	12279.3	11004.0	11736.3	13155.0	13798.5	13744.9	12130.2	11753.1	14133.7
57.5°	13569.8	13617.5	13138.2	11557.0	12276.8	13828.7	14603.8	14700.1	12905.3	12564.2	14787.3
60°	13975.3	14064.1	13893.2	12257.5	12800.5	14259.4	15152.6	15460.2	13873.9	13633.4	15420.8
62.5°	13607.5	13736.5	13984.5	13034.3	13320.9	14496.5	15323.6	15732.5	14866.1	14879.5	15811.3
65°	12873.4	12976.5	13397.1	13460.0	13622.5	14467.2	14901.3	15352.1	15473.6	16024.1	15790.3
67.5°	11986.9	12025.4	12382.4	13493.5	13185.1	13585.7	13632.6	13966.1	14993.4	16429.7	15156.0
70°	10710.7	10731.6	11043.3	12371.5	11330.8	11418.7	11349.2	11417.1	12890.2	15441.7	13554.7
72.5°	8620.0	8672.8	9116.1	10274.1	8254.6	8000.7	8547.1	8516.9	9927.2	13046.0	10067.1
75°	6346.6	6438.0	7107.5	8275.6	5793.6	5240.5	5639.4	5745.8	7057.2	10091.4	6295.5
77.5°	4443.6	4511.5	5160.1	6083.5	4193.1	3747.3	3603.2	3729.7	4658.2	7300.2	3171.6
80°	2559.9	2585.1	2999.0	3512.7	2825.6	3232.8	2928.6	3015.8	2791.2	3247.9	1364.2
82.5°	1675.1	1679.3	1841.0	2090.7	1759.7	2044.6	1513.3	1934.8	1717.0	1304.7	444.1
85°	905.0	910.0	1067.5	1484.0	996.3	563.1	331.0	679.6	1061.7	299.1	121.5
87.5°	99.7	91.3	321.8	539.6	276.5	51.1	17.6	76.3	170.1	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°	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4
2.5°	6345.8	6276.2	6102.8	5919.3	5771.8	5633.5	5494.4	5324.3	5192.8	5166.0	5122.4
5°	6210.0	5989.7	5626.0	5260.6	4966.5	4595.3	4359.9	4176.3	3997.0	3986.1	3950.1
7.5°	5735.8	5445.8	4933.8	4428.6	4014.6	3661.0	3304.0	3065.2	2877.5	2811.3	2771.9
10°	5279.9	4954.0	4314.6	3738.1	3368.6	3056.0	2804.6	2554.9	2328.7	2172.8	2102.4
12.5°	4961.5	4601.2	3896.5	3399.6	3134.8	2838.1	2531.4	2219.7	1959.1	1771.4	1656.6
15°	4838.3	4453.7	3756.5	3265.5	2938.7	2563.3	2171.1	1815.0	1525.9	1355.8	1252.7
17.5°	4985.0	4537.5	3745.6	3102.1	2645.4	2178.7	1745.4	1324.8	1052.5	923.4	857.2
20°	5357.0	4804.0	3741.4	2901.8	2296.8	1722.8	1182.3	871.5	706.4	634.3	603.3
22.5°	5883.2	5144.2	3775.0	2704.1	1934.0	1230.9	816.2	640.2	555.6	517.0	499.4
25°	6560.3	5621.8	3869.6	2524.7	1592.9	918.4	636.0	536.3	476.8	446.6	434.1
27.5°	7281.8	6171.5	4017.1	2368.9	1315.6	732.4	544.7	459.2	416.5	395.5	383.8
30°	7876.7	6808.3	4166.3	2195.4	1114.5	638.5	498.6	419.0	369.5	356.1	345.2
32.5°	8397.1	7290.2	4271.9	2038.7	982.9	567.3	450.8	374.6	341.0	315.1	303.3
35°	8935.9	7691.5	4268.5	1929.0	892.4	513.7	410.6	335.2	295.0	264.8	255.6
37.5°	9519.1	8144.9	4195.6	1835.1	853.0	470.9	388.0	314.2	274.0	243.8	232.1
40°	10202.0	8620.8	4121.0	1747.1	842.1	436.6	372.0	297.5	254.7	225.4	213.7
42.5°	10867.4	9049.9	4055.7	1681.8	795.2	435.7	357.8	284.9	239.7	211.2	197.8
45°	11399.5	9449.6	4043.1	1642.4	745.8	450.8	350.3	276.5	227.9	199.4	186.9
47.5°	11841.9	9883.6	4123.5	1614.7	698.8	411.4	368.7	270.7	217.0	189.4	175.1
50°	12368.1	10416.5	4312.9	1569.5	649.4	370.4	422.3	272.3	207.8	179.3	164.2
52.5°	13102.2	11153.9	4591.1	1493.2	581.5	332.7	415.6	274.0	197.8	168.4	153.3
55°	13925.0	12074.8	4890.3	1366.7	486.8	283.2	356.1	262.3	178.5	156.7	142.5
57.5°	14789.8	12910.3	5067.9	1215.9	387.1	244.7	284.9	238.8	157.5	140.8	131.6
60°	14925.6	13227.9	4986.6	1030.7	307.5	212.8	211.2	243.0	140.8	124.0	117.3
62.5°	14587.9	12829.0	4593.6	865.6	257.3	186.9	173.5	212.0	127.4	110.6	103.9
65°	13938.4	11750.6	3956.8	780.1	238.8	160.0	144.1	149.2	111.4	96.4	90.5
67.5°	13035.1	10311.0	3248.7	731.5	236.3	137.4	123.2	113.1	96.4	83.8	78.8
70°	11188.3	8589.8	2591.8	704.7	229.6	115.6	103.9	92.2	80.4	71.2	67.0
72.5°	8234.5	6086.9	2016.1	675.4	231.3	92.2	90.5	76.3	64.5	55.3	53.6
75°	4757.9	3477.5	1322.3	547.2	220.4	71.2	75.4	53.6	45.2	38.5	38.5
77.5°	2535.6	2120.8	503.6	227.9	80.4	45.2	42.7	31.8	28.5	23.5	22.6
80°	1105.3	933.5	151.7	63.7	44.4	24.3	15.9	14.2	12.6	10.1	9.2
82.5°	391.3	337.7	49.4	31.0	19.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.8	63.7	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°	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4
2.5°	5033.6	5015.1	4906.2	4910.4	4929.7	4957.3	4891.9	4922.1	5003.4	5081.3	5110.7
5°	3892.3	3896.5	3830.3	3871.3	3908.2	3933.3	3827.8	3829.4	3894.0	3981.9	4028.0
7.5°	2742.6	2735.9	2739.3	2837.3	2906.8	2856.6	2896.0	2759.4	2767.7	2830.6	2783.7
10°	2038.7	1946.6	1894.6	1968.3	2044.6	2016.9	1949.1	1904.7	1935.7	2005.2	2000.2
12.5°	1602.2	1469.8	1391.8	1339.0	1401.9	1349.9	1348.3	1309.7	1267.8	1275.4	1386.8
15°	1205.0	1108.6	1016.4	931.8	930.1	912.5	822.9	722.3	713.9	719.0	776.8
17.5°	828.7	796.1	758.3	685.4	666.2	592.4	505.3	465.1	445.0	454.2	473.4
20°	582.4	569.8	574.0	534.6	507.0	436.6	385.5	369.5	366.2	375.4	384.6
22.5°	482.7	460.0	457.5	439.9	412.3	361.2	333.5	324.3	320.1	328.5	335.2
25°	422.3	399.7	390.5	379.6	350.3	315.1	298.3	289.9	285.7	290.8	295.0
27.5°	372.0	351.1	342.7	335.2	306.7	281.6	268.1	260.6	257.3	258.9	263.1
30°	334.3	315.9	305.0	295.8	271.5	253.9	242.2	234.6	231.3	231.3	235.5
32.5°	295.0	284.9	274.8	263.1	240.5	228.8	217.0	208.6	205.3	206.1	209.5
35°	245.5	242.2	244.7	233.8	214.5	204.5	192.7	183.5	181.0	181.8	185.2
37.5°	217.9	202.8	212.0	206.1	195.2	181.8	166.8	158.4	154.2	156.7	158.4
40°	200.3	181.8	175.1	181.0	179.3	157.5	144.1	135.7	132.4	133.2	134.9
42.5°	185.2	163.4	148.3	147.5	157.5	137.4	123.2	115.6	111.4	111.4	113.1
45°	170.9	147.5	129.0	114.8	132.4	116.5	103.1	96.4	91.3	91.3	92.2
47.5°	160.0	134.1	112.3	93.9	99.7	95.5	84.6	77.9	72.9	72.9	73.7
50°	150.0	120.7	97.2	78.8	74.6	78.8	68.7	61.2	57.8	57.0	58.7
52.5°	139.1	107.3	83.0	67.0	58.7	59.5	53.6	48.6	44.4	44.4	46.1
55°	128.2	96.4	72.1	57.0	48.6	44.4	42.7	39.4	36.0	36.0	37.7
57.5°	117.3	84.6	61.2	46.9	38.5	35.2	35.2	32.7	30.2	30.2	31.8
60°	107.3	72.9	50.3	38.5	30.2	29.3	30.2	27.7	26.0	26.0	27.7
62.5°	95.5	62.0	41.1	31.8	24.3	23.5	26.0	24.3	22.6	22.6	24.3
65°	81.3	52.8	32.7	24.3	18.4	18.4	21.8	20.1	18.4	18.4	20.1
67.5°	68.7	44.4	25.1	17.6	13.4	14.2	18.4	16.8	15.9	15.9	17.6
70°	57.0	34.4	17.6	10.9	7.5	10.9	14.2	14.2	14.2	14.2	15.9
72.5°	42.7	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-SA4C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4	5934.4
2.5°	5228.8	5327.7	5466.8	5614.3	5841.3	6021.5	6198.3	6350.0	6408.6	6432.9
5°	4138.6	4283.6	4487.2	4748.7	5158.4	5527.1	5900.8	6277.1	6440.5	6481.5
7.5°	2969.7	3154.9	3413.8	3741.4	4221.6	4699.2	5221.3	5773.5	6026.5	6090.2
10°	2197.9	2424.2	2720.8	3066.1	3524.4	4015.5	4584.4	5215.4	5504.5	5589.1
12.5°	1559.4	1865.3	2262.5	2682.3	3079.5	3517.7	4093.4	4788.9	5092.2	5183.6
15°	915.9	1211.7	1681.8	2244.0	2752.7	3196.8	3781.7	4570.2	4904.5	4996.7
17.5°	525.4	672.9	1028.2	1654.9	2345.4	2960.5	3683.6	4624.6	5018.5	5103.9
20°	401.4	448.3	592.4	1065.9	1869.5	2728.4	3683.6	4933.0	5418.2	5543.9
22.5°	351.1	385.5	444.1	636.0	1375.9	2479.5	3726.4	5378.8	6013.1	6152.2
25°	311.7	342.7	393.0	478.5	938.5	2183.7	3827.8	5926.0	6713.6	6893.8
27.5°	279.0	308.4	353.6	419.0	641.9	1826.7	3964.3	6567.8	7486.2	7630.4
30°	249.7	277.4	318.4	364.5	495.2	1422.0	4080.8	7172.8	8092.9	8247.9
32.5°	222.1	247.2	284.1	318.4	405.6	1051.6	4093.4	7652.2	8596.5	8750.7
35°	196.1	218.7	252.2	279.0	336.0	830.4	3898.1	8067.8	9100.1	9303.8
37.5°	170.9	192.7	222.1	242.2	295.8	677.1	3599.8	8531.2	9746.2	9934.7
40°	147.5	166.8	196.9	210.3	279.9	520.4	3275.5	9017.2	10379.7	10552.3
42.5°	125.7	144.1	173.5	199.4	245.5	388.8	2925.3	9473.0	10949.5	11130.5
45°	104.7	124.0	153.3	211.2	203.6	290.8	2550.7	9775.5	11399.5	11596.4
47.5°	84.6	106.4	146.6	201.1	162.6	213.7	2254.1	10062.1	11740.5	11934.9
50°	67.9	89.7	165.1	179.3	133.2	163.4	2130.1	10318.5	11964.2	12151.1
52.5°	55.3	75.4	155.9	137.4	111.4	134.9	2197.1	10734.1	12171.2	12288.5
55°	46.1	59.5	93.9	95.5	94.7	114.8	2280.1	11330.8	12706.7	12762.0
57.5°	40.2	47.8	65.4	73.7	79.6	102.2	2281.7	12187.1	13535.4	13569.8
60°	34.4	41.9	54.5	59.5	68.7	91.3	2198.8	12486.3	13861.4	13975.3
62.5°	30.2	36.9	45.2	49.4	57.8	82.1	2004.4	12053.1	13413.9	13607.5
65°	26.8	33.5	37.7	41.9	51.1	73.7	1684.3	11186.6	12671.5	12873.4
67.5°	23.5	29.3	33.5	37.7	46.1	65.4	1240.2	10180.2	11819.3	11986.9
70°	20.9	26.0	30.2	33.5	40.2	55.3	752.5	8638.4	10641.1	10710.7
72.5°	20.1	23.5	27.7	30.2	35.2	48.6	381.3	6348.3	8506.9	8620.0
75°	17.6	20.9	25.1	26.8	31.0	41.9	155.0	4169.6	6164.8	6346.6
77.5°	14.2	19.3	22.6	24.3	26.8	34.4	78.8	2664.7	4326.3	4443.6
80°	5.0	14.2	19.3	20.1	22.6	25.1	52.0	1458.9	2509.7	2559.9
82.5°	0.0	9.2	15.1	14.2	15.9	19.3	33.5	693.8	1656.6	1675.1
85°	0.0	4.2	11.7	9.2	6.7	13.4	11.7	151.7	869.0	905.0
87.5°	0.0	0.0	0.8	4.2	3.4	5.0	1.7	0.8	78.8	99.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)