

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: P324091

Luminaire Tested: **GAN-SA7C-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324091
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-SA7C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 31017 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

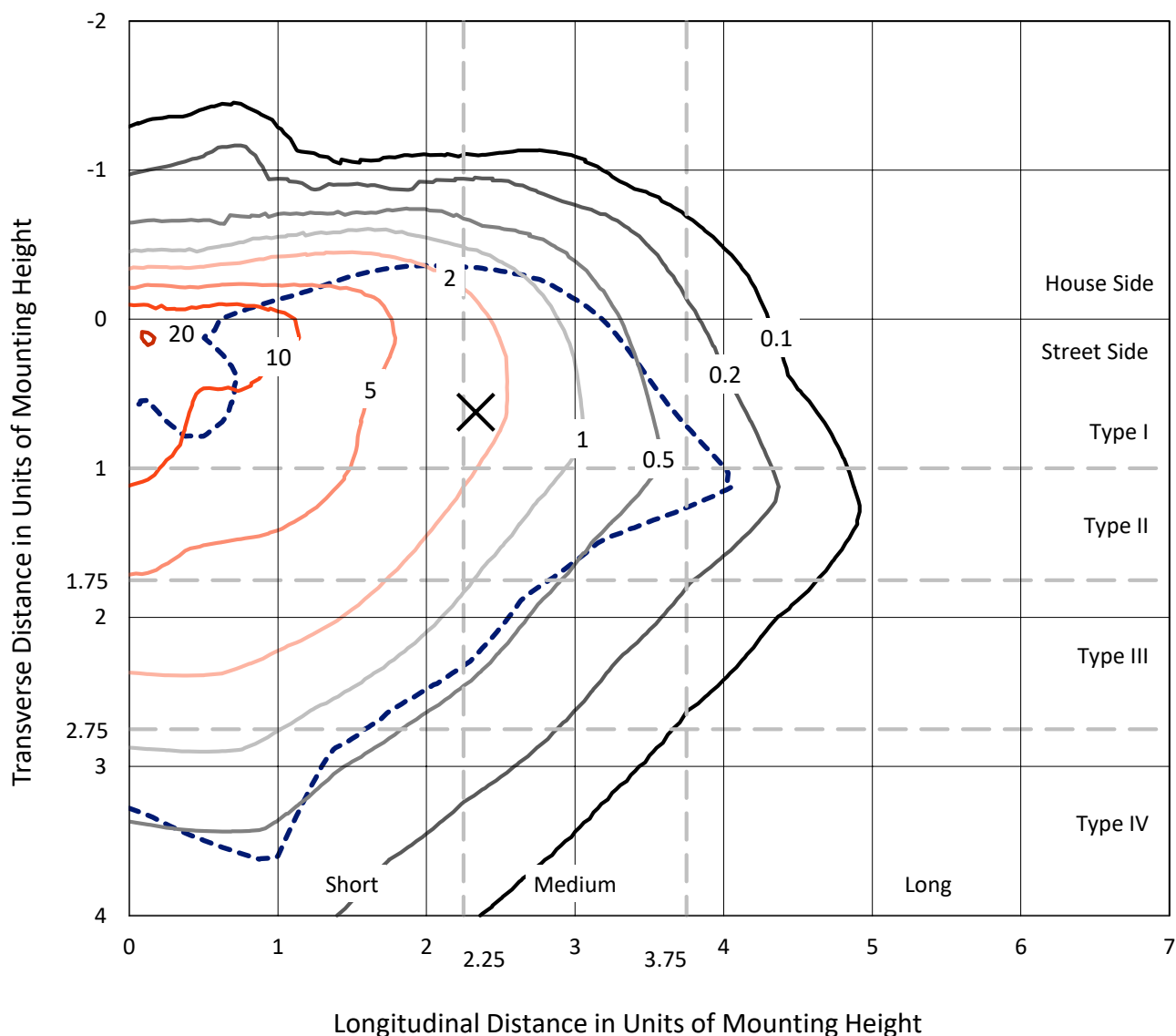
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

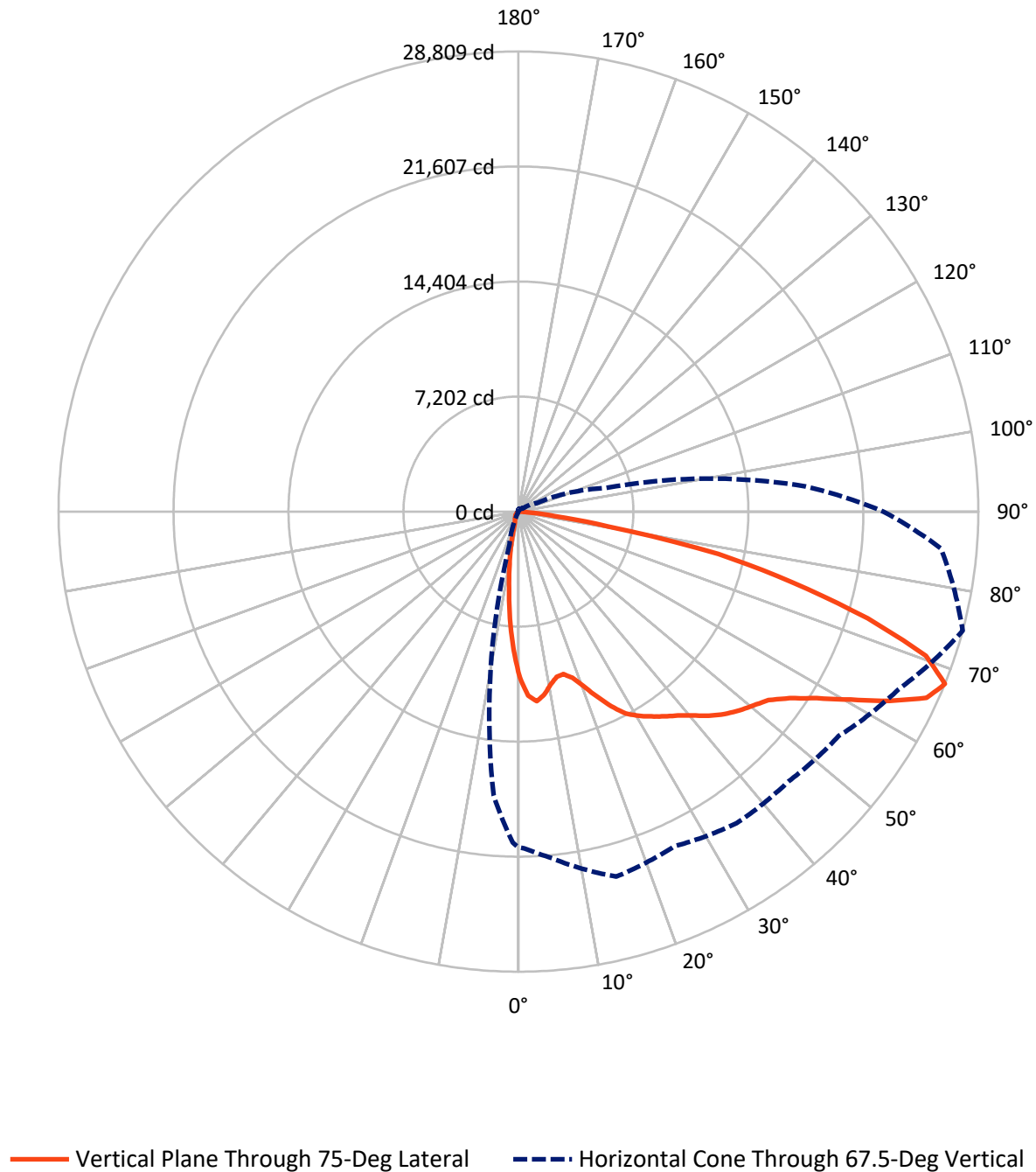
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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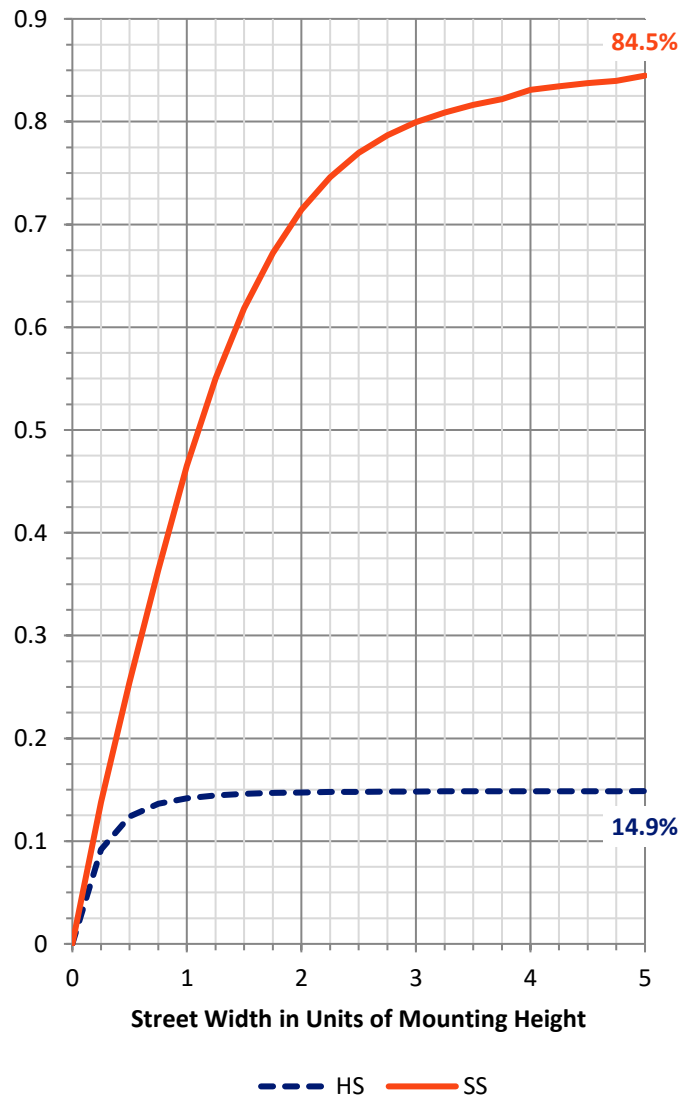
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4654.4	0.0	4654.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26362.6	0.0	26362.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	31017.0	0.0	31017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.3	2.5
10°-20°	1554.2	5.0
20°-30°	2198.7	7.1
30°-40°	3232.7	10.4
40°-50°	4646.5	15.0
50°-60°	6541.1	21.1
60°-70°	7639.4	24.6
70°-80°	3897.4	12.6
80°-90°	517.7	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°	31017.0	100.0
0°-180°	31017.0	100.0

Coefficient of Utilization



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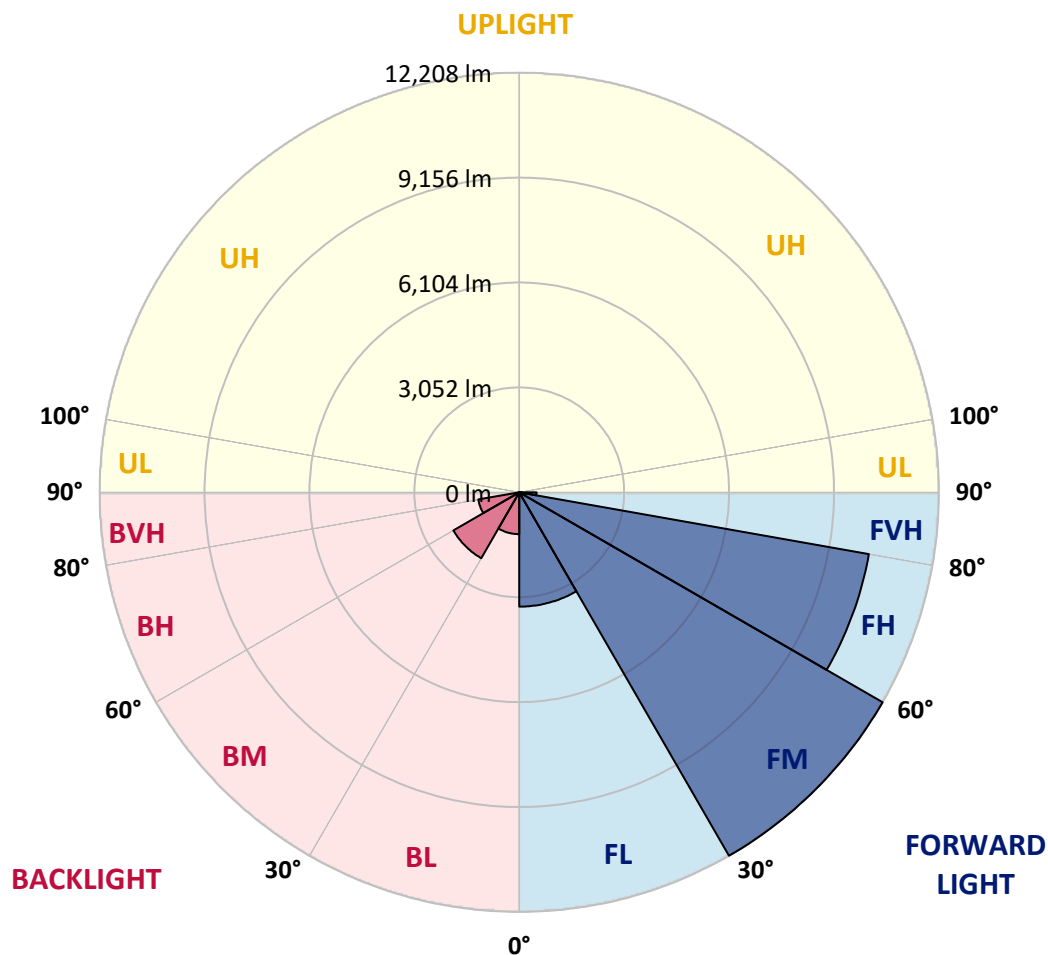
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3325.0	10.7			
FM	(30°-60°)	12207.7	39.4			
FH	(60°-80°)	10327.8	33.3			G4/12000
FVH	(80°-90°)	502.0	1.6			G4/750
BL	(0°-30°)	1217.2	3.9	B3/2500		
BM	(30°-60°)	2212.6	7.1	B2/2500		
BH	(60°-80°)	1209.0	3.9	B3/2500		G3/2500
BVH	(80°-90°)	15.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7
2.5°	11279.9	11297.5	11388.6	11600.2	11830.9	11848.5	12004.3	11844.1	11789.8	11531.2	11263.8
5°	11365.1	11432.7	11745.7	12367.2	12906.4	13079.8	13203.2	12888.8	12558.2	11926.4	11252.0
7.5°	10679.0	10792.1	11284.3	12451.0	13414.8	13840.9	13921.7	13429.5	12619.9	11579.7	10565.8
10°	9800.3	9929.6	10523.2	11957.3	13281.1	14011.4	14123.0	13478.0	12314.3	11018.4	9823.8
12.5°	9089.2	9240.5	9847.3	11401.9	12821.2	13629.3	13849.7	13314.9	12049.8	10620.2	9316.9
15°	8761.5	8934.9	9572.6	11043.4	12311.4	12947.6	13129.8	12899.1	11902.9	10557.0	9199.4
17.5°	8949.6	9137.7	9795.9	11074.2	11832.4	12104.2	12251.1	12345.2	11902.9	10937.6	9543.2
20°	9721.0	9923.7	10620.2	11387.2	11435.7	11334.3	11491.5	11822.1	12041.0	11660.5	10368.9
22.5°	10787.7	11025.7	11811.8	11923.5	11241.7	10858.2	10878.8	11397.5	12292.3	12577.3	11515.0
25°	12088.0	12379.0	13178.3	12722.8	11322.5	10574.6	10567.3	11047.8	12537.6	13495.6	12791.8
27.5°	13379.6	13699.9	14402.2	13698.4	11656.1	10523.2	10508.5	10942.0	12777.1	14312.6	14186.2
30°	14462.4	14773.9	15379.3	14405.1	12016.0	10643.7	10573.2	11055.1	12919.7	14843.0	15203.0
32.5°	15344.0	15593.8	16083.1	14891.5	12401.0	10877.3	10724.5	11357.8	13162.1	15291.1	16137.5
35°	16313.8	16576.8	16772.2	15354.3	12833.0	11213.8	10994.9	11838.3	13535.3	15746.6	17161.6
37.5°	17420.2	17681.7	17658.2	15777.5	13381.0	11770.7	11631.1	12599.4	14115.7	16197.7	18304.7
40°	18503.1	18770.5	18579.5	16240.3	14024.6	12689.0	12586.1	13742.5	14893.0	16775.1	19644.7
42.5°	19516.9	19806.3	19397.9	16678.2	14791.6	13846.8	14023.1	15214.7	15865.6	17486.3	20799.6
45°	20333.8	20629.2	20084.0	17104.3	15599.7	15251.5	15781.9	16845.7	17035.2	18087.2	21579.8
47.5°	20927.4	21206.6	20560.1	17530.4	16634.1	16969.1	17893.3	18556.0	18091.6	18608.8	22133.7
50°	21306.5	21524.0	20699.7	18063.7	17991.7	18973.2	20092.9	20416.1	19086.4	19079.0	22806.7
52.5°	21547.5	21645.9	20802.5	18620.6	19408.2	21155.2	22246.9	22348.2	20110.5	19596.2	23713.2
55°	22377.6	22457.0	21531.3	19295.0	20579.2	23066.7	24195.2	24101.1	21269.8	20608.6	24782.9
57.5°	23794.1	23877.8	23037.4	20264.8	21526.9	24248.1	25607.2	25776.2	22628.9	22030.9	25929.0
60°	24505.2	24660.9	24361.2	21493.1	22445.2	25003.3	26569.6	27108.8	24327.4	23905.7	27039.8
62.5°	23860.2	24086.4	24521.4	22855.2	23357.7	25419.1	26869.3	27586.3	26067.1	26090.6	27724.5
65°	22573.1	22753.8	23491.4	23601.6	23886.6	25367.7	26128.8	26919.3	27132.3	28097.7	27687.7
67.5°	21018.5	21086.1	21712.0	23660.3	23119.6	23822.0	23904.2	24489.0	26290.4	28808.8	26575.5
70°	18780.8	18817.5	19364.1	21692.9	19868.0	20022.3	19900.4	20019.4	22602.4	27076.5	23767.6
72.5°	15114.8	15207.4	15984.7	18015.2	14474.2	14029.0	14987.0	14934.1	17406.9	22875.7	17652.3
75°	11128.6	11288.7	12462.7	14510.9	10158.8	9189.1	9888.5	10075.1	12374.6	17694.9	11038.9
77.5°	7791.8	7910.8	9048.0	10667.2	7352.4	6570.8	6318.0	6539.9	8167.9	12800.7	5561.3
80°	4488.8	4532.8	5258.7	6159.4	4954.5	5668.6	5135.2	5288.1	4894.3	5695.1	2392.0
82.5°	2937.2	2944.5	3228.1	3665.9	3085.6	3585.1	2653.6	3392.6	3010.6	2287.7	778.7
85°	1586.9	1595.7	1871.9	2602.2	1747.0	987.4	580.4	1191.6	1861.6	524.5	213.1
87.5°	174.8	160.2	564.2	946.2	484.9	89.6	30.9	133.7	298.3	33.8	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°	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7
2.5°	11127.1	11005.2	10701.0	10379.2	10120.6	9878.2	9634.3	9336.0	9105.3	9058.3	8981.9
5°	10889.1	10502.6	9865.0	9224.3	8708.6	8057.7	7644.8	7323.1	7008.6	6989.5	6926.3
7.5°	10057.4	9549.1	8651.3	7765.3	7039.5	6419.4	5793.5	5374.7	5045.6	4929.5	4860.5
10°	9258.1	8686.6	7565.5	6554.6	5906.6	5358.6	4917.8	4479.9	4083.2	3809.9	3686.5
12.5°	8699.8	8068.0	6832.3	5961.0	5496.7	4976.6	4438.8	3892.2	3435.3	3106.1	2904.8
15°	8483.8	7809.4	6586.9	5725.9	5152.9	4494.6	3807.0	3182.5	2675.6	2377.3	2196.6
17.5°	8740.9	7956.3	6567.8	5439.4	4638.6	3820.2	3060.6	2323.0	1845.5	1619.2	1503.1
20°	9393.3	8423.6	6560.5	5088.2	4027.4	3020.9	2073.2	1528.1	1238.6	1112.3	1057.9
22.5°	10316.0	9020.1	6619.3	4741.5	3391.2	2158.4	1431.1	1122.6	974.2	906.6	875.7
25°	11503.2	9857.6	6785.3	4427.0	2793.2	1610.4	1115.2	940.4	836.0	783.1	761.1
27.5°	12768.3	10821.5	7043.9	4153.7	2306.8	1284.2	955.1	805.2	730.2	693.5	672.9
30°	13811.5	11938.2	7305.4	3849.6	1954.2	1119.6	874.2	734.7	648.0	624.5	605.4
32.5°	14724.0	12783.0	7490.6	3574.8	1723.5	994.7	790.5	656.8	598.0	552.5	531.9
35°	15668.8	13486.8	7484.7	3382.4	1564.8	900.7	720.0	587.7	517.2	464.3	448.1
37.5°	16691.4	14281.7	7356.8	3217.8	1495.8	825.8	680.3	551.0	480.5	427.6	407.0
40°	17888.9	15116.3	7226.1	3063.5	1476.7	765.5	652.4	521.6	446.7	395.2	374.7
42.5°	19055.5	15868.6	7111.5	2948.9	1394.4	764.0	627.4	499.6	420.2	370.3	346.8
45°	19988.5	16569.4	7089.4	2879.9	1307.7	790.5	614.2	484.9	399.7	349.7	327.7
47.5°	20764.3	17330.5	7230.5	2831.4	1225.4	721.4	646.5	474.6	380.6	332.1	307.1
50°	21687.1	18265.0	7562.6	2752.0	1138.7	649.4	740.5	477.5	364.4	314.4	288.0
52.5°	22974.2	19558.0	8050.4	2618.3	1019.7	583.3	728.8	480.5	346.8	295.3	268.9
55°	24417.0	21172.8	8574.9	2396.4	853.7	496.6	624.5	459.9	313.0	274.8	249.8
57.5°	25933.4	22637.7	8886.4	2132.0	678.8	429.0	499.6	418.8	276.2	246.8	230.7
60°	26171.4	23194.6	8743.9	1807.3	539.2	373.2	370.3	426.1	246.8	217.5	205.7
62.5°	25579.3	22495.2	8054.8	1517.8	451.1	327.7	304.1	371.7	223.3	193.9	182.2
65°	24440.5	20604.2	6938.1	1367.9	418.8	280.6	252.7	261.5	195.4	169.0	158.7
67.5°	22856.6	18079.9	5696.5	1282.7	414.3	241.0	216.0	198.4	169.0	146.9	138.1
70°	19618.3	15061.9	4544.6	1235.7	402.6	202.8	182.2	161.6	141.1	124.9	117.5
72.5°	14438.9	10673.1	3535.2	1184.3	405.5	161.6	158.7	133.7	113.1	97.0	94.0
75°	8342.8	6097.6	2318.6	959.5	386.4	124.9	132.2	94.0	79.3	67.6	67.6
77.5°	4446.1	3718.8	883.1	399.7	141.1	79.3	74.9	55.8	50.0	41.1	39.7
80°	1938.0	1636.8	265.9	111.7	77.9	42.6	27.9	25.0	22.0	17.6	16.2
82.5°	686.2	592.1	86.7	54.4	33.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	155.7	111.7	0.0	13.2	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°	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7
2.5°	8826.2	8793.8	8602.8	8610.2	8644.0	8692.5	8577.8	8630.7	8773.3	8909.9	8961.3
5°	6825.0	6832.3	6716.2	6788.2	6852.9	6897.0	6711.8	6714.8	6827.9	6982.2	7063.0
7.5°	4809.1	4797.3	4803.2	4975.1	5097.0	5008.9	5077.9	4838.4	4853.1	4963.3	4881.1
10°	3574.8	3413.2	3322.1	3451.4	3585.1	3536.6	3417.6	3339.7	3394.1	3516.1	3507.2
12.5°	2809.3	2577.2	2440.5	2348.0	2458.2	2367.1	2364.1	2296.5	2223.1	2236.3	2431.7
15°	2112.9	1943.9	1782.3	1633.9	1630.9	1600.1	1442.9	1266.5	1251.9	1260.7	1362.1
17.5°	1453.2	1395.8	1329.7	1201.9	1168.1	1038.8	886.0	815.5	780.2	796.4	830.2
20°	1021.2	999.1	1006.5	937.4	888.9	765.5	675.9	648.0	642.1	658.3	674.4
22.5°	846.3	806.7	802.2	771.4	722.9	633.3	584.8	568.6	561.3	576.0	587.7
25°	740.5	700.9	684.7	665.6	614.2	552.5	523.1	508.4	501.0	509.9	517.2
27.5°	652.4	615.6	600.9	587.7	537.8	493.7	470.2	457.0	451.1	454.0	461.4
30°	586.3	553.9	534.8	518.7	476.1	445.2	424.6	411.4	405.5	405.5	412.9
32.5°	517.2	499.6	481.9	461.4	421.7	401.1	380.6	365.9	360.0	361.5	367.3
35°	430.5	424.6	429.0	409.9	376.1	358.5	337.9	321.8	317.4	318.8	324.7
37.5°	382.0	355.6	371.7	361.5	342.3	318.8	292.4	277.7	270.4	274.8	277.7
40°	351.2	318.8	307.1	317.4	314.4	276.2	252.7	238.0	232.2	233.6	236.6
42.5°	324.7	286.5	260.1	258.6	276.2	241.0	216.0	202.8	195.4	195.4	198.4
45°	299.7	258.6	226.3	201.3	232.2	204.2	180.7	169.0	160.2	160.2	161.6
47.5°	280.6	235.1	196.9	164.6	174.8	167.5	148.4	136.6	127.8	127.8	129.3
50°	263.0	211.6	170.4	138.1	130.8	138.1	120.5	107.3	101.4	99.9	102.9
52.5°	243.9	188.1	145.5	117.5	102.9	104.3	94.0	85.2	77.9	77.9	80.8
55°	224.8	169.0	126.4	99.9	85.2	77.9	74.9	69.1	63.2	63.2	66.1
57.5°	205.7	148.4	107.3	82.3	67.6	61.7	61.7	57.3	52.9	52.9	55.8
60°	188.1	127.8	88.2	67.6	52.9	51.4	52.9	48.5	45.5	45.5	48.5
62.5°	167.5	108.7	72.0	55.8	42.6	41.1	45.5	42.6	39.7	39.7	42.6
65°	142.5	92.6	57.3	42.6	32.3	32.3	38.2	35.3	32.3	32.3	35.3
67.5°	120.5	77.9	44.1	30.9	23.5	25.0	32.3	29.4	27.9	27.9	30.9
70°	99.9	60.2	30.9	19.1	13.2	19.1	25.0	25.0	25.0	25.0	27.9
72.5°	74.9	41.1	17.6	7.3	5.9	13.2	20.6	23.5	22.0	22.0	26.4
75°	48.5	23.5	5.9	0.0	0.0	7.3	16.2	19.1	19.1	17.6	22.0
77.5°	27.9	7.3	0.0	0.0	0.0	0.0	10.3	8.8	7.3	5.9	10.3
80°	7.3	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



REPORT NUMBER: P324091

CATALOG NUMBER: GAN-SA7C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7	10405.7
2.5°	9168.5	9341.9	9585.8	9844.4	10242.6	10558.5	10868.5	11134.5	11237.3	11279.9
5°	7256.9	7511.1	7868.2	8326.6	9045.1	9691.6	10346.9	11006.6	11293.1	11365.1
7.5°	5207.2	5532.0	5986.0	6560.5	7402.4	8239.9	9155.3	10123.6	10567.3	10679.0
10°	3854.0	4250.7	4770.9	5376.2	6179.9	7040.9	8038.6	9145.0	9651.9	9800.3
12.5°	2734.4	3270.7	3967.1	4703.3	5399.7	6168.2	7177.6	8397.1	8929.0	9089.2
15°	1606.0	2124.6	2948.9	3934.8	4826.7	5605.4	6631.0	8013.6	8599.9	8761.5
17.5°	921.3	1179.9	1802.8	2901.9	4112.6	5191.1	6459.1	8109.1	8799.7	8949.6
20°	703.8	786.1	1038.8	1869.0	3278.0	4784.1	6459.1	8649.8	9500.6	9721.0
22.5°	615.6	675.9	778.7	1115.2	2412.6	4347.7	6534.0	9431.5	10543.8	10787.7
25°	546.6	600.9	689.1	839.0	1645.6	3829.0	6711.8	10391.0	11772.1	12088.0
27.5°	489.3	540.7	620.0	734.7	1125.5	3203.1	6951.3	11516.5	13126.8	13379.6
30°	437.9	486.3	558.3	639.2	868.4	2493.4	7155.6	12577.3	14190.6	14462.4
32.5°	389.4	433.4	498.1	558.3	711.1	1844.0	7177.6	13417.8	15073.7	15344.0
35°	343.8	383.5	442.3	489.3	589.2	1456.1	6835.2	14146.5	15956.7	16313.8
37.5°	299.7	337.9	389.4	424.6	518.7	1187.2	6312.2	14959.1	17089.6	17420.2
40°	258.6	292.4	345.3	368.8	490.8	912.4	5743.5	15811.3	18200.4	18503.1
42.5°	220.4	252.7	304.1	349.7	430.5	681.8	5129.4	16610.6	19199.5	19516.9
45°	183.7	217.5	268.9	370.3	357.0	509.9	4472.6	17141.0	19988.5	20333.8
47.5°	148.4	186.6	257.1	352.6	285.0	374.7	3952.5	17643.5	20586.5	20927.4
50°	119.0	157.2	289.5	314.4	233.6	286.5	3735.0	18093.1	20978.8	21306.5
52.5°	97.0	132.2	273.3	241.0	195.4	236.6	3852.5	18821.9	21341.8	21547.5
55°	80.8	104.3	164.6	167.5	166.0	201.3	3998.0	19868.0	22280.7	22377.6
57.5°	70.5	83.8	114.6	129.3	139.6	179.3	4000.9	21369.7	23733.8	23794.1
60°	60.2	73.5	95.5	104.3	120.5	160.2	3855.5	21894.2	24305.4	24505.2
62.5°	52.9	64.6	79.3	86.7	101.4	144.0	3514.6	21134.6	23520.8	23860.2
65°	47.0	58.8	66.1	73.5	89.6	129.3	2953.3	19615.3	22218.9	22573.1
67.5°	41.1	51.4	58.8	66.1	80.8	114.6	2174.6	17850.7	20724.7	21018.5
70°	36.7	45.5	52.9	58.8	70.5	97.0	1319.4	15147.1	18658.8	18780.8
72.5°	35.3	41.1	48.5	52.9	61.7	85.2	668.5	11131.5	14916.5	15114.8
75°	30.9	36.7	44.1	47.0	54.4	73.5	271.8	7311.3	10809.7	11128.6
77.5°	25.0	33.8	39.7	42.6	47.0	60.2	138.1	4672.4	7586.1	7791.8
80°	8.8	25.0	33.8	35.3	39.7	44.1	91.1	2558.1	4400.6	4488.8
82.5°	0.0	16.2	26.4	25.0	27.9	33.8	58.8	1216.6	2904.8	2937.2
85°	0.0	7.3	20.6	16.2	11.8	23.5	20.6	265.9	1523.7	1586.9
87.5°	0.0	0.0	1.5	7.3	5.9	8.8	2.9	1.5	138.1	174.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)