

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: McGRAW-EDISON

Report Number: P533071

Luminaire Tested: **GALN-SA8C-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26247 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

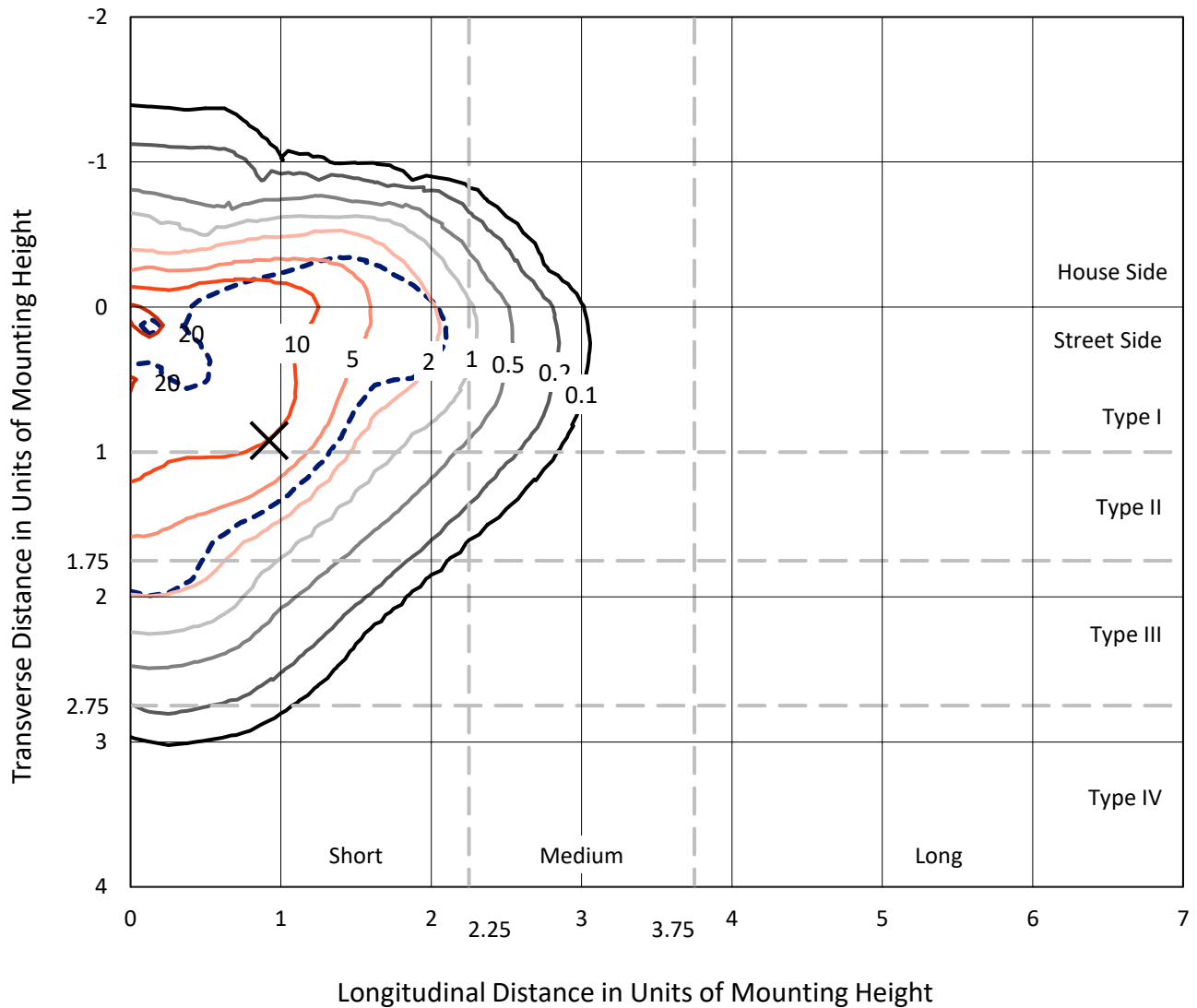
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

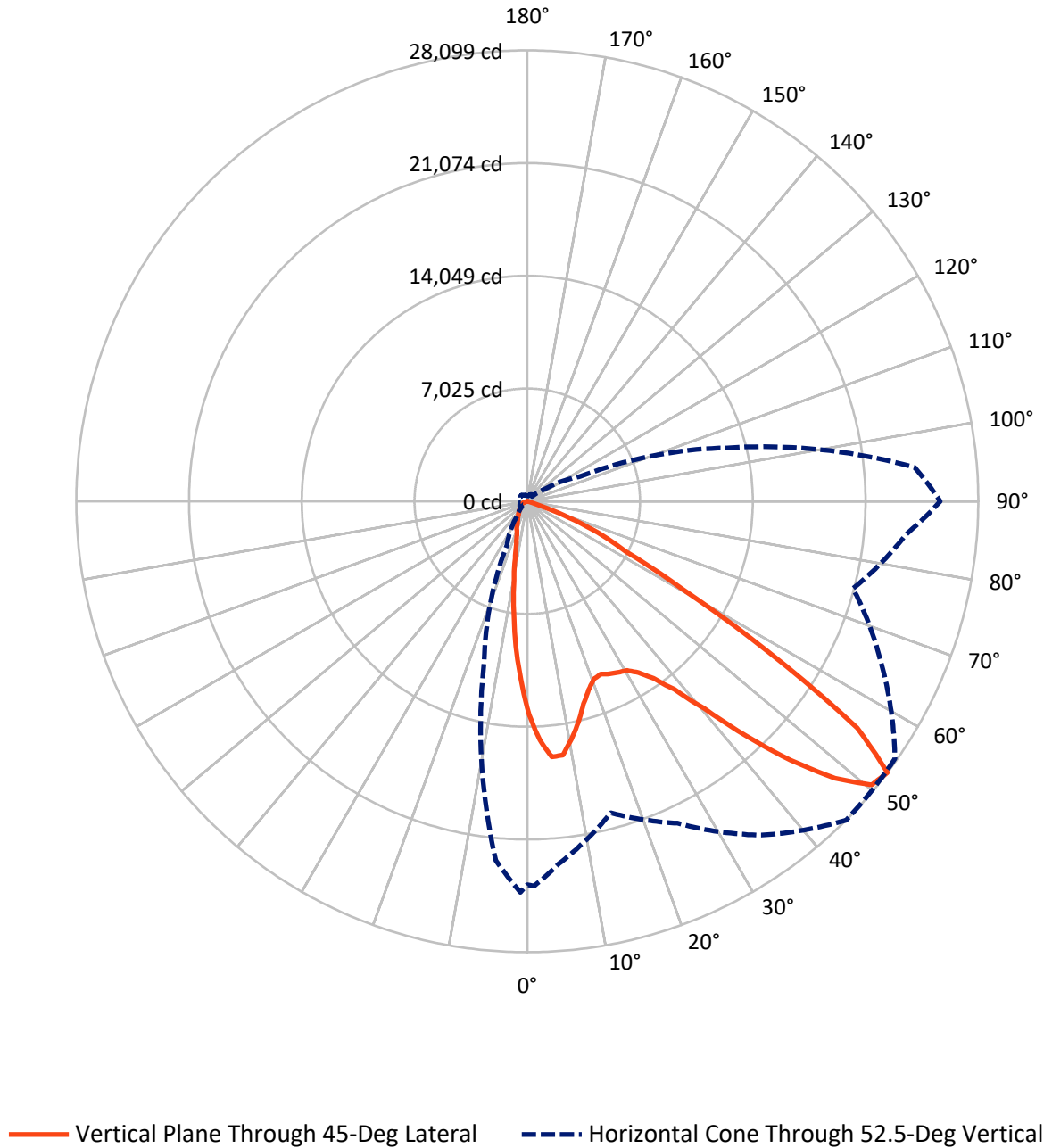
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5326.8	0.0	5326.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	20920.2	0.0	20920.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	26247.0	0.0	26247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	970.6	3.7
10°-20°	1914.9	7.3
20°-30°	2914.1	11.1
30°-40°	4355.5	16.6
40°-50°	6202.7	23.6
50°-60°	6667.7	25.4
60°-70°	2954.6	11.3
70°-80°	239.0	0.9
80°-90°	27.9	0.1
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°	26247.0	100.0
0°-180°	26247.0	100.0

Coefficient of Utilization

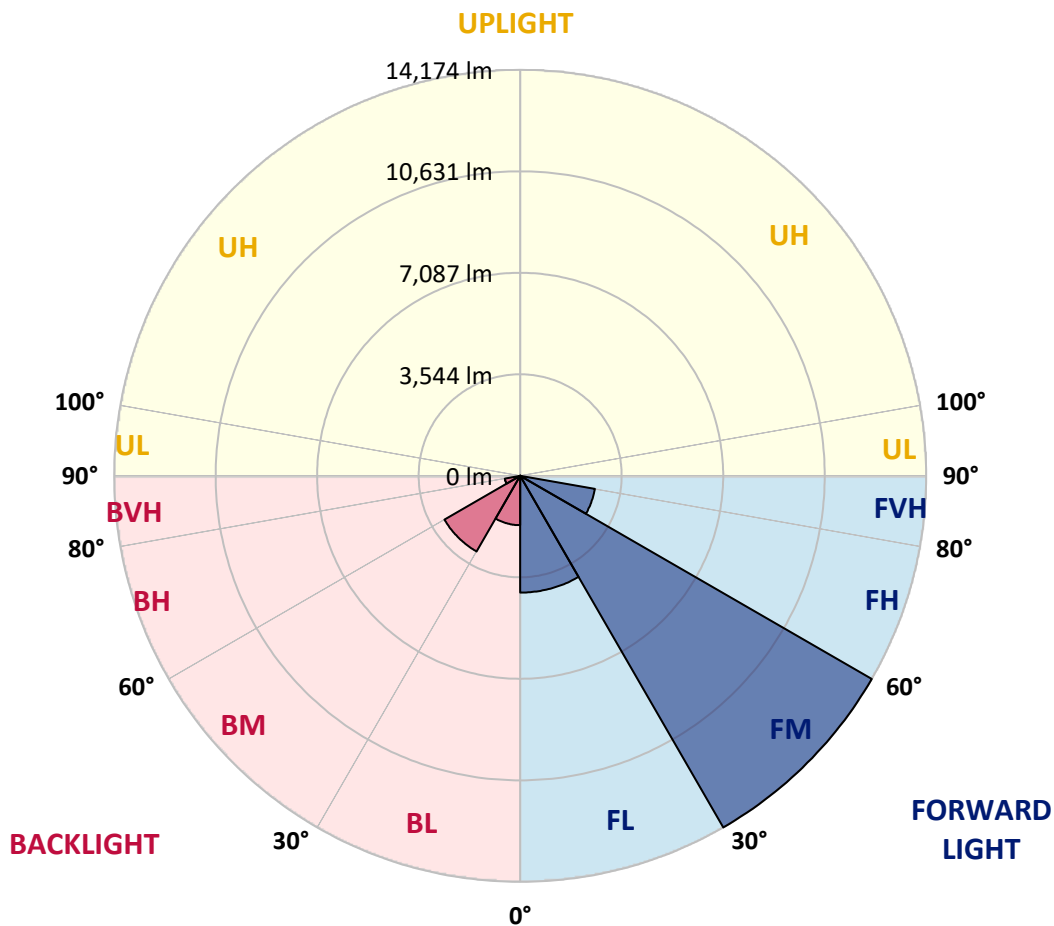


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4076.7	15.5			
FM (30°-60°)	14174.2	54.0			
FH (60°-80°)	2648.6	10.1			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	1722.9	6.6	B3/2500		
BM (30°-60°)	3051.7	11.6	B3/5000		
BH (60°-80°)	545.0	2.1	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4
2.5°	14082.8	14124.1	14351.2	14635.2	14784.9	15125.6	14888.1	14950.1	14821.0	14366.7	14010.5
5°	13654.3	13649.2	13938.3	14640.3	15306.3	15982.5	16003.2	15641.8	15006.9	14309.9	13313.6
7.5°	12363.7	12565.1	12864.5	13984.7	15218.5	15724.4	15967.0	15543.7	14568.1	13571.7	12492.8
10°	11388.1	11491.3	11997.2	13349.7	14253.2	14929.4	15079.1	14836.5	14088.0	12843.8	11635.9
12.5°	10825.4	10877.0	11470.7	12606.4	13561.4	14062.1	14134.4	14248.0	13711.1	12544.4	11093.8
15°	10830.5	10871.8	11672.0	12621.9	12998.7	12864.5	13102.0	13096.8	13329.1	12487.6	11548.1
17.5°	11610.0	11656.5	12379.2	12849.0	12683.8	12368.9	12353.4	12590.9	13081.3	13194.9	12234.7
20°	12952.2	13060.7	13592.4	13566.6	12637.3	12002.4	11826.9	12007.5	13148.4	13793.7	13618.2
22.5°	14759.1	14908.8	15280.5	14568.1	12849.0	11754.6	11697.8	12048.8	13592.4	15130.7	15187.5
25°	16855.0	17107.9	17288.6	16374.9	13602.7	12183.1	11914.6	12518.6	14191.2	16581.4	17185.3
27.5°	18243.6	18506.9	18465.6	17159.5	14108.6	12296.6	12069.5	12632.2	14712.6	16927.2	18228.1
30°	19327.7	19487.7	19776.8	17582.8	14614.5	12616.7	12229.5	13112.3	14883.0	17526.1	19487.7
32.5°	20592.5	20700.9	20721.5	18331.4	15394.0	13019.4	12725.1	13711.1	15636.7	18099.1	20602.8
35°	21867.6	22027.6	21692.0	19255.4	15874.1	13767.9	13551.1	14748.7	16240.6	18692.7	21831.4
37.5°	23251.1	23333.7	22559.3	19637.4	16560.7	14986.2	14867.5	15869.0	17288.6	19766.5	23194.3
40°	24412.6	24490.0	23483.4	20107.2	17283.4	16689.8	16994.3	18006.2	18713.4	20463.4	23875.7
42.5°	25057.9	25238.6	23793.1	19849.1	18734.0	18620.5	19973.0	20329.2	20365.3	20659.6	24484.9
45°	25233.4	25150.8	23282.0	20060.8	20004.0	21795.3	23023.9	23493.7	22007.0	21020.9	24639.7
47.5°	24422.9	24531.3	22528.3	19874.9	21671.4	24200.9	25790.9	26663.4	23230.4	20706.0	24257.7
50°	23767.3	23627.9	22285.7	19740.7	22120.5	25336.6	27788.7	27984.9	24355.8	21093.2	23839.6
52.5°	23896.4	23984.1	22672.9	20096.9	22130.8	25403.8	28098.5	27964.3	24391.9	21005.5	23689.9
55°	24170.0	23782.8	22507.7	19312.2	20649.3	23529.8	24939.1	24732.7	22512.9	20071.1	23323.3
57.5°	20855.8	21454.6	20695.7	17242.1	16947.9	17727.4	17701.6	18336.5	16793.0	17273.1	21232.6
60°	16927.2	17030.5	17314.4	14748.7	11728.8	11460.3	11088.7	10686.0	11300.3	14769.4	19312.2
62.5°	14888.1	14764.2	15776.0	13416.9	8280.4	6933.0	6871.0	7118.8	8719.2	14088.0	18114.6
65°	10820.2	10975.1	11708.1	10412.4	6215.4	5291.4	5198.5	5931.5	7056.9	11290.0	13824.7
67.5°	6607.8	6907.2	6974.3	6421.9	4217.6	3350.3	3216.1	3882.1	5095.2	7304.7	8104.8
70°	3050.9	3412.3	3753.0	3505.2	2441.8	1378.3	1300.9	1631.3	2570.8	4202.1	4300.2
72.5°	924.1	929.2	1300.9	1357.7	789.8	309.7	273.6	361.4	872.4	1388.7	1460.9
75°	67.1	72.3	175.5	201.3	149.7	77.4	82.6	98.1	185.8	309.7	232.3
77.5°	5.2	5.2	5.2	25.8	46.5	51.6	67.1	77.4	98.1	113.6	103.2
80°	5.2	0.0	5.2	20.6	36.1	51.6	61.9	72.3	77.4	87.8	77.4
82.5°	0.0	0.0	0.0	15.5	36.1	51.6	56.8	77.4	87.8	103.2	87.8
85°	0.0	0.0	0.0	15.5	36.1	56.8	51.6	25.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4
2.5°	14072.5	13871.1	13411.7	13179.4	12632.2	12554.8	12017.9	11930.1	11749.4	11651.3	11413.9
5°	12874.8	12632.2	11883.6	11253.8	10520.8	10009.7	9617.4	9261.2	9054.7	8863.7	8951.5
7.5°	11899.1	11191.9	10360.8	9307.7	8461.0	7913.8	7315.0	6824.6	6535.5	6339.3	6385.8
10°	10877.0	10417.6	9261.2	8079.0	7056.9	6669.7	6199.9	5823.1	5415.3	5064.2	4899.0
12.5°	10556.9	9875.5	8424.9	7222.1	6447.7	6070.9	5534.0	5100.4	4579.0	4150.5	4000.8
15°	10613.7	9958.1	8197.8	6912.3	5998.6	5348.2	4708.0	4171.2	3598.1	3298.7	3143.9
17.5°	11537.8	10402.1	8347.5	6587.1	5374.0	4470.6	3680.7	2999.3	2570.8	2261.1	2194.0
20°	12673.5	11362.3	8667.5	6349.6	4862.9	3556.8	2689.6	2101.1	1744.9	1693.2	1677.8
22.5°	14335.7	12931.6	9354.1	6189.6	4238.3	2772.2	1842.9	1528.0	1430.0	1419.6	1424.8
25°	16658.8	14898.4	10102.7	6055.4	3768.5	2137.2	1507.4	1295.7	1264.8	1249.3	1275.1
27.5°	17665.4	16085.8	10500.1	5766.3	3340.0	1925.5	1486.7	1285.4	1197.7	1171.8	1187.3
30°	18909.6	16875.6	11124.8	5270.7	2710.2	1584.8	1388.7	1399.0	1357.7	1228.6	1187.3
32.5°	20561.5	17861.6	11439.7	4919.7	2421.1	1311.2	1017.0	934.4	1042.8	1063.4	1099.6
35°	21619.8	18863.1	11599.7	4713.2	2271.4	1120.2	862.1	784.7	758.9	764.0	784.7
37.5°	23586.6	20215.6	11801.1	4496.4	2157.8	975.7	779.5	707.2	671.1	671.1	691.8
40°	24763.6	21289.4	12074.7	4377.6	2044.3	887.9	707.2	645.3	614.3	614.3	624.6
42.5°	25057.9	21821.1	11981.7	4336.3	1915.2	867.3	645.3	598.8	562.7	557.5	552.4
45°	25584.4	22631.6	11997.2	4289.9	1781.0	789.8	609.2	557.5	505.9	500.7	495.6
47.5°	26162.6	23214.9	12028.2	4109.2	1651.9	660.8	635.0	516.2	454.3	444.0	444.0
50°	25667.0	23679.5	12296.6	3928.5	1486.7	536.9	624.6	485.3	402.7	387.2	392.3
52.5°	25729.0	24226.7	12864.5	3675.6	1280.3	428.5	505.9	459.4	366.5	340.7	345.9
55°	24737.8	23648.6	12941.9	3407.1	1001.5	330.4	387.2	402.7	309.7	299.4	299.4
57.5°	21294.6	20024.6	11419.0	2761.8	660.8	273.6	278.8	351.0	268.4	258.1	263.3
60°	18223.0	16075.5	9188.9	1822.3	413.0	216.8	201.3	356.2	237.5	232.3	247.8
62.5°	16612.3	13210.4	6969.1	1130.5	283.9	165.2	139.4	289.1	206.5	206.5	227.1
65°	12002.4	8874.0	4052.4	593.7	201.3	129.1	103.2	165.2	170.4	175.5	185.8
67.5°	7433.7	4480.9	1708.7	289.1	134.2	87.8	67.1	103.2	113.6	113.6	123.9
70°	3670.4	1786.2	567.9	165.2	103.2	72.3	46.5	56.8	56.8	51.6	56.8
72.5°	1135.7	536.9	144.5	103.2	72.3	46.5	25.8	20.6	10.3	0.0	5.2
75°	129.1	103.2	92.9	72.3	46.5	20.6	5.2	0.0	0.0	0.0	0.0
77.5°	77.4	87.8	87.8	72.3	46.5	15.5	0.0	0.0	0.0	0.0	0.0
80°	61.9	67.1	72.3	67.1	41.3	20.6	0.0	0.0	0.0	0.0	0.0
82.5°	77.4	87.8	98.1	87.8	56.8	25.8	10.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	15.5	5.2	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°	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4
2.5°	11315.8	11202.2	11362.3	11124.8	11119.6	11124.8	11057.7	10995.7	11093.8	11357.1	11382.9
5°	8636.6	8879.2	8956.6	9209.6	9070.2	8863.7	8905.0	8765.6	9106.3	9256.0	9137.3
7.5°	6287.7	6272.2	6793.6	6824.6	6891.7	6896.9	6886.5	6612.9	6334.2	6396.1	6582.0
10°	4878.4	4615.1	4868.1	4842.3	5007.4	4961.0	5028.1	4733.8	4831.9	4831.9	4950.7
12.5°	3975.0	3696.2	3649.8	3582.6	3649.8	3675.6	3701.4	3644.6	3809.8	3887.2	3969.8
15°	3035.4	2880.6	2839.3	2710.2	2730.9	2803.1	2865.1	2890.9	2839.3	2958.0	2968.3
17.5°	2204.3	2199.1	2225.0	2219.8	2199.1	2183.7	2178.5	2111.4	2090.7	2101.1	2142.4
20°	1672.6	1713.9	1801.6	1889.4	1935.9	1879.1	1801.6	1688.1	1641.6	1651.9	1657.1
22.5°	1430.0	1491.9	1610.6	1708.7	1755.2	1651.9	1512.6	1414.5	1393.8	1388.7	1383.5
25°	1295.7	1368.0	1455.8	1486.7	1481.6	1419.6	1316.4	1275.1	1264.8	1254.4	1208.0
27.5°	1223.5	1249.3	1264.8	1300.9	1316.4	1275.1	1249.3	1187.3	1177.0	1177.0	1146.0
30°	1182.2	1166.7	1187.3	1161.5	1182.2	1151.2	1156.4	1156.4	1130.5	1140.9	1140.9
32.5°	1099.6	1104.7	1104.7	1053.1	1068.6	1032.5	1068.6	1099.6	1104.7	1109.9	1151.2
35°	805.3	898.2	944.7	944.7	960.2	934.4	929.2	893.1	846.6	800.2	779.5
37.5°	707.2	743.4	805.3	841.5	867.3	846.6	800.2	743.4	717.6	696.9	676.3
40°	629.8	660.8	702.1	743.4	795.0	769.2	696.9	671.1	640.1	640.1	619.5
42.5°	567.9	583.3	609.2	671.1	727.9	676.3	624.6	604.0	588.5	583.3	578.2
45°	511.1	516.2	542.0	593.7	660.8	609.2	557.5	531.7	536.9	542.0	536.9
47.5°	459.4	469.8	485.3	547.2	588.5	562.7	505.9	490.4	490.4	490.4	495.6
50°	397.5	423.3	454.3	505.9	536.9	521.4	474.9	454.3	444.0	444.0	449.1
52.5°	356.2	376.8	418.1	480.1	521.4	495.6	449.1	418.1	397.5	392.3	402.7
55°	309.7	345.9	413.0	459.4	516.2	490.4	438.8	402.7	366.5	361.4	361.4
57.5°	278.8	335.6	397.5	454.3	500.7	480.1	438.8	392.3	345.9	340.7	340.7
60°	263.3	325.2	387.2	438.8	500.7	469.8	433.6	382.0	330.4	330.4	325.2
62.5°	247.8	304.6	366.5	418.1	480.1	454.3	418.1	366.5	314.9	314.9	304.6
65°	206.5	263.3	304.6	351.0	418.1	392.3	356.2	320.1	278.8	268.4	273.6
67.5°	144.5	180.7	222.0	268.4	309.7	299.4	283.9	258.1	222.0	216.8	211.7
70°	72.3	98.1	134.2	180.7	216.8	206.5	196.2	175.5	154.9	149.7	149.7
72.5°	10.3	31.0	56.8	82.6	113.6	118.7	113.6	108.4	103.2	98.1	103.2
75°	0.0	0.0	0.0	20.6	46.5	56.8	67.1	77.4	77.4	67.1	82.6
77.5°	0.0	0.0	0.0	0.0	5.2	25.8	51.6	67.1	82.6	72.3	98.1
80°	0.0	0.0	0.0	0.0	5.2	31.0	51.6	72.3	82.6	72.3	103.2
82.5°	0.0	0.0	0.0	0.0	5.2	36.1	51.6	67.1	77.4	72.3	92.9
85°	0.0	0.0	0.0	0.0	15.5	31.0	20.6	10.3	5.2	5.2	15.5
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: P533071

CATALOG NUMBER: GALN-SA8C-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4	13308.4
2.5°	11527.5	11894.0	12286.3	12436.0	12900.6	13251.7	13489.1	14000.2	14077.6	14082.8
5°	9261.2	9447.0	10118.1	10433.0	11124.8	11661.7	12234.7	13060.7	13613.0	13654.3
7.5°	6582.0	7098.2	7382.1	8202.9	9054.7	9896.2	10747.9	11708.1	12348.3	12363.7
10°	5296.5	5632.1	6138.0	6752.3	7469.9	8326.8	9462.5	10577.6	11228.0	11388.1
12.5°	4264.1	4852.6	5430.8	6065.7	6612.9	7258.2	8481.7	9968.4	10505.3	10825.4
15°	3283.2	3820.1	4501.5	5244.9	5864.4	6726.5	8120.3	9818.7	10722.1	10830.5
17.5°	2421.1	2901.2	3531.0	4233.1	5162.3	6385.8	8182.3	10577.6	11429.4	11610.0
20°	1739.7	2018.5	2514.0	3329.7	4511.9	5988.3	8244.2	11346.8	12642.5	12952.2
22.5°	1378.3	1491.9	1817.1	2539.9	3784.0	5570.1	8683.0	12818.0	14309.9	14759.1
25°	1197.7	1259.6	1414.5	2003.0	3324.5	5528.8	9385.1	14583.5	16529.7	16855.0
27.5°	1156.4	1166.7	1300.9	1837.8	3076.7	5255.2	9653.5	15838.0	17913.2	18243.6
30°	1218.3	1383.5	1393.8	1553.9	2617.3	4713.2	9792.9	17051.1	19085.1	19327.7
32.5°	1053.1	1001.5	1037.6	1202.8	2302.4	4398.3	10056.2	18109.4	20422.1	20592.5
35°	733.0	769.2	851.8	1042.8	2013.3	4067.9	10123.3	19276.1	21692.0	21867.6
37.5°	676.3	696.9	764.0	887.9	1770.7	3882.1	10030.4	20127.9	23008.4	23251.1
40°	629.8	655.6	691.8	805.3	1590.0	3675.6	9901.3	20897.1	23813.8	24412.6
42.5°	593.7	614.3	645.3	769.2	1435.1	3469.1	9720.6	21981.1	24536.5	25057.9
45°	552.4	583.3	619.5	748.5	1347.4	3329.7	9586.4	21914.0	24954.6	25233.4
47.5°	511.1	562.7	604.0	696.9	1321.6	3262.6	9643.2	21661.1	24613.9	24422.9
50°	469.8	536.9	609.2	578.2	1259.6	3128.4	9710.3	22007.0	23803.4	23767.3
52.5°	433.6	511.1	567.9	474.9	1120.2	2999.3	10360.8	22461.2	24376.5	23896.4
55°	382.0	459.4	454.3	382.0	908.6	2901.2	10871.8	22471.6	23989.3	24170.0
57.5°	345.9	407.8	356.2	320.1	671.1	2426.3	10040.7	18842.5	20535.7	20855.8
60°	320.1	397.5	268.4	253.0	438.8	1750.0	8765.6	14593.9	16323.2	16927.2
62.5°	294.3	376.8	211.7	206.5	304.6	1244.1	7206.6	12214.0	14067.3	14888.1
65°	258.1	268.4	170.4	160.0	216.8	671.1	4388.0	8409.4	10515.6	10820.2
67.5°	211.7	206.5	139.4	129.1	144.5	325.2	1935.9	4212.4	6096.7	6607.8
70°	170.4	170.4	118.7	103.2	103.2	149.7	505.9	1677.8	2756.7	3050.9
72.5°	123.9	129.1	92.9	82.6	77.4	72.3	82.6	335.6	722.7	924.1
75°	108.4	113.6	92.9	72.3	56.8	46.5	36.1	31.0	41.3	67.1
77.5°	118.7	118.7	98.1	67.1	51.6	36.1	20.6	10.3	10.3	5.2
80°	149.7	154.9	129.1	87.8	61.9	41.3	25.8	10.3	5.2	5.2
82.5°	160.0	175.5	144.5	108.4	77.4	46.5	25.8	5.2	0.0	0.0
85°	41.3	67.1	113.6	98.1	77.4	46.5	25.8	5.2	0.0	0.0
87.5°	0.0	5.2	15.5	15.5	20.6	20.6	15.5	5.2	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

(END OF REPORT)