

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: P532603

Luminaire Tested: **GALN-SA8A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532603
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-SA8A-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 17073 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

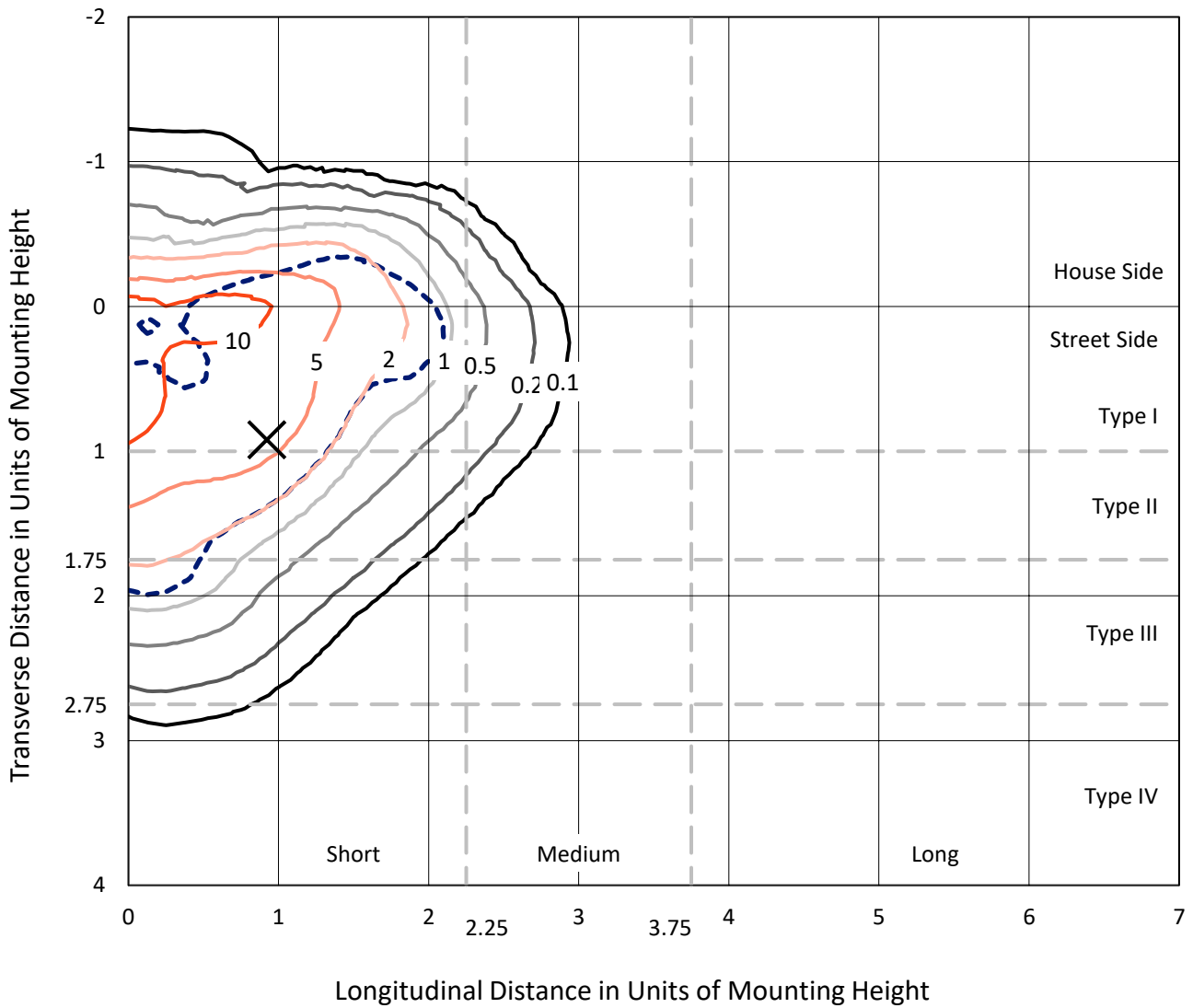
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

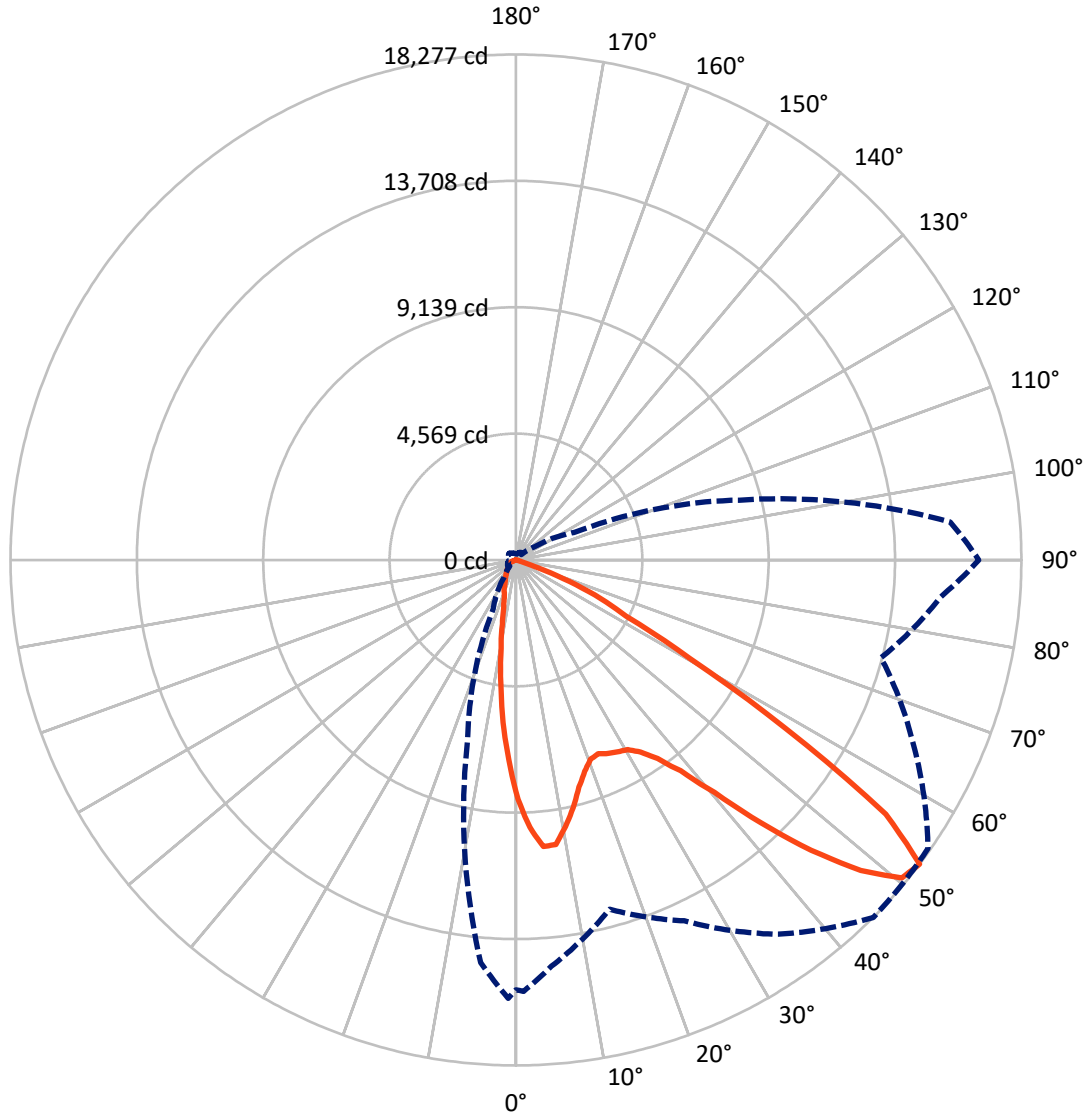
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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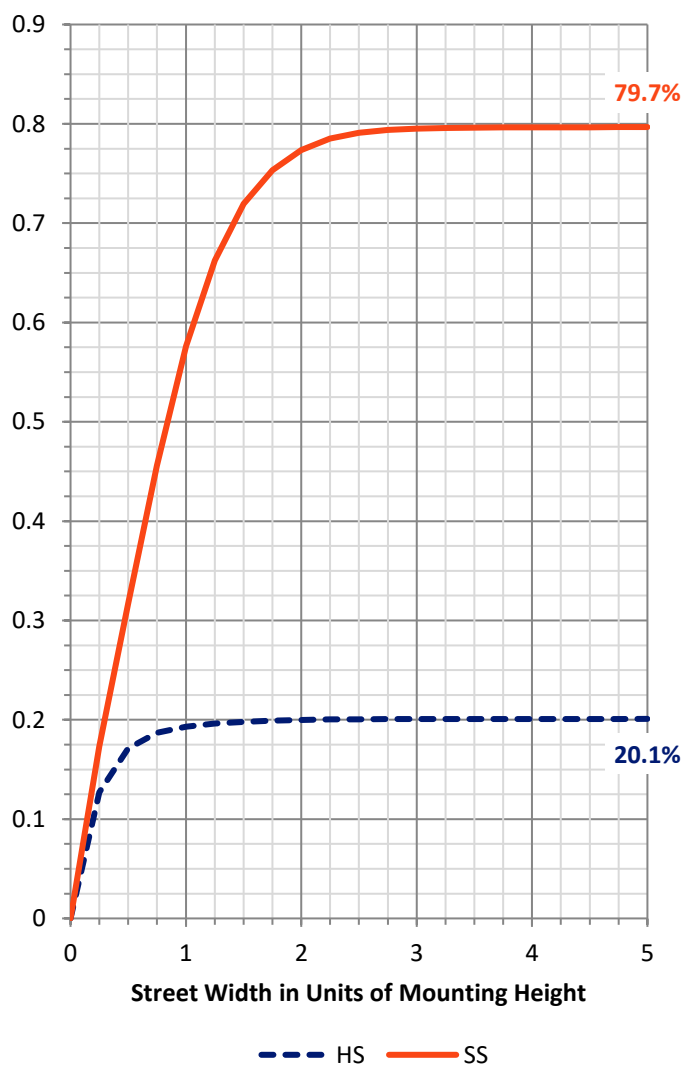
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3465.0	0.0	3465.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13608.0	0.0	13608.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	17073.0	0.0	17073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.3	3.7
10°-20°	1245.6	7.3
20°-30°	1895.6	11.1
30°-40°	2833.2	16.6
40°-50°	4034.7	23.6
50°-60°	4337.2	25.4
60°-70°	1921.9	11.3
70°-80°	155.5	0.9
80°-90°	18.1	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°	17073.0	100.0
0°-180°	17073.0	100.0

Coefficient of Utilization

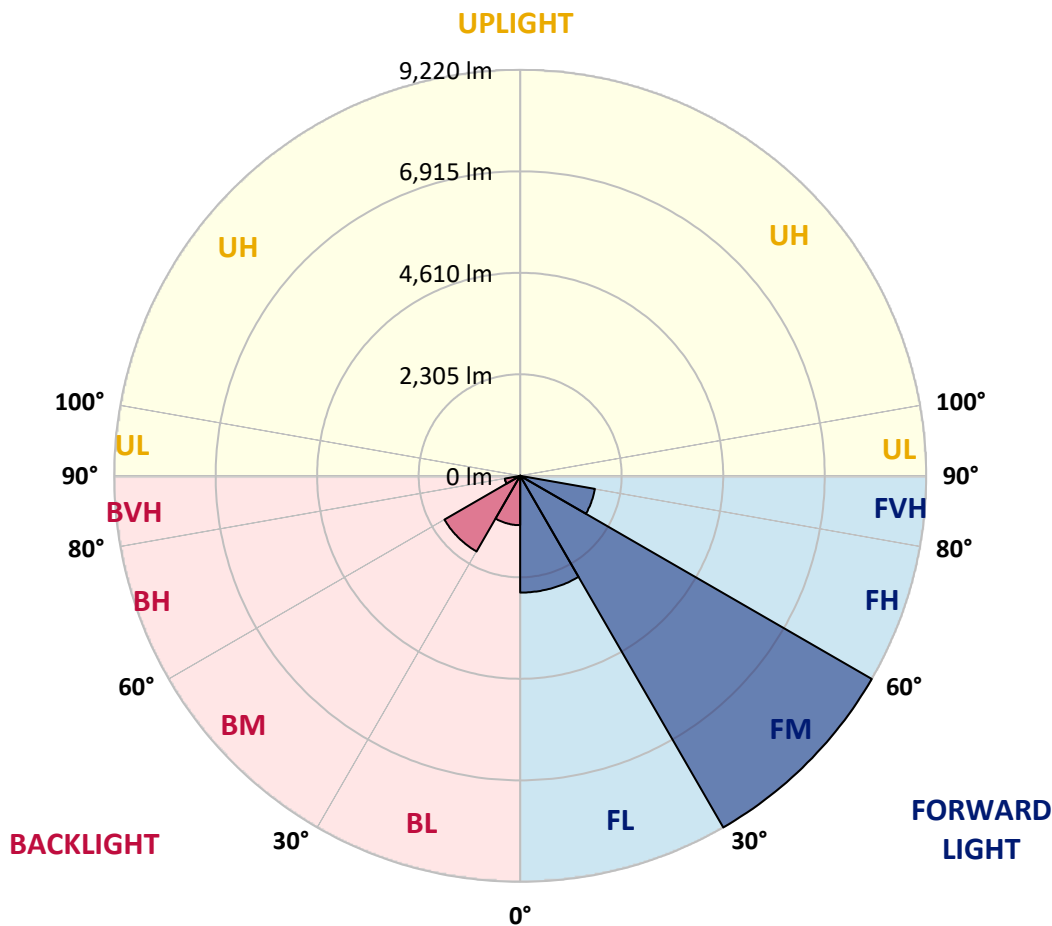


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2651.8	15.5			
FM (30°-60°)	9219.9	54.0			
FH (60°-80°)	1722.9	10.1			G1/1800
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	1120.7	6.6	B3/2500		
BM (30°-60°)	1985.0	11.6	B2/2500		
BH (60°-80°)	354.5	2.1	B1/500		G1/500
BVH (80°-90°)	4.7	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8
2.5°	9160.5	9187.4	9335.1	9519.8	9617.2	9838.8	9684.3	9724.6	9640.7	9345.2	9113.5
5°	8881.8	8878.4	9066.5	9523.2	9956.3	10396.2	10409.7	10174.6	9761.6	9308.2	8660.2
7.5°	8042.3	8173.3	8368.0	9096.7	9899.2	10228.3	10386.2	10110.8	9476.1	8828.1	8126.2
10°	7407.6	7474.8	7803.9	8683.7	9271.3	9711.2	9808.6	9650.8	9163.9	8354.6	7568.8
12.5°	7041.6	7075.2	7461.4	8200.1	8821.3	9147.1	9194.1	9268.0	8918.7	8159.8	7216.2
15°	7045.0	7071.9	7592.3	8210.2	8455.3	8368.0	8522.5	8519.1	8670.2	8122.9	7511.7
17.5°	7552.0	7582.3	8052.4	8357.9	8250.5	8045.7	8035.6	8190.0	8509.1	8582.9	7958.4
20°	8425.1	8495.6	8841.5	8824.7	8220.3	7807.2	7693.1	7810.6	8552.7	8972.5	8858.3
22.5°	9600.4	9697.8	9939.5	9476.1	8357.9	7646.1	7609.1	7837.5	8841.5	9842.2	9879.1
25°	10963.7	11128.3	11245.8	10651.4	8848.2	7924.8	7750.2	8143.0	9231.0	10785.7	11178.6
27.5°	11867.0	12038.3	12011.4	11161.8	9177.3	7998.6	7850.9	8216.9	9570.2	11010.7	11856.9
30°	12572.2	12676.3	12864.3	11437.2	9506.4	8206.8	7955.0	8529.2	9681.0	11400.3	12676.3
32.5°	13394.9	13465.4	13478.8	11924.1	10013.4	8468.8	8277.4	8918.7	10171.2	11773.0	13401.6
35°	14224.3	14328.4	14110.1	12525.2	10325.7	8955.7	8814.6	9593.7	10564.1	12159.2	14200.8
37.5°	15124.2	15178.0	14674.3	12773.7	10772.3	9748.1	9670.9	10322.3	11245.8	12857.6	15087.3
40°	15879.8	15930.1	15275.3	13079.2	11242.4	10856.3	11054.4	11712.5	12172.6	13310.9	15530.5
42.5°	16299.5	16417.0	15476.8	12911.3	12186.0	12112.1	12991.9	13223.6	13247.1	13438.5	15926.8
45°	16413.7	16360.0	15144.4	13049.0	13012.1	14177.3	14976.5	15282.0	14315.0	13673.6	16027.5
47.5°	15886.5	15957.0	14654.1	12928.1	14096.7	15742.1	16776.3	17343.8	15110.8	13468.8	15779.0
50°	15460.0	15369.4	14496.3	12840.8	14388.8	16480.8	18075.9	18203.5	15842.8	13720.6	15507.0
52.5°	15544.0	15601.1	14748.1	13072.5	14395.5	16524.5	18277.3	18190.0	15866.3	13663.5	15409.6
55°	15721.9	15470.1	14640.7	12562.1	13431.8	15305.6	16222.3	16088.0	14644.0	13055.7	15171.2
57.5°	13566.1	13955.7	13462.0	11215.6	11024.2	11531.2	11514.4	11927.5	10923.4	11235.7	13811.3
60°	11010.7	11077.9	11262.6	9593.7	7629.3	7454.7	7212.9	6951.0	7350.6	9607.1	12562.1
62.5°	9684.3	9603.7	10261.9	8727.3	5386.2	4509.7	4469.4	4630.6	5671.6	9163.9	11783.1
65°	7038.3	7139.0	7615.8	6773.0	4043.0	3441.9	3381.5	3858.3	4590.3	7343.8	8992.6
67.5°	4298.2	4492.9	4536.6	4177.3	2743.4	2179.3	2092.0	2525.2	3314.3	4751.5	5272.0
70°	1984.6	2219.6	2441.2	2280.1	1588.3	896.6	846.2	1061.1	1672.3	2733.4	2797.2
72.5°	601.1	604.4	846.2	883.1	513.8	201.5	178.0	235.1	567.5	903.3	950.3
75°	43.7	47.0	114.2	131.0	97.4	50.4	53.7	63.8	120.9	201.5	151.1
77.5°	3.4	3.4	3.4	16.8	30.2	33.6	43.7	50.4	63.8	73.9	67.2
80°	3.4	0.0	3.4	13.4	23.5	33.6	40.3	47.0	50.4	57.1	50.4
82.5°	0.0	0.0	0.0	10.1	23.5	33.6	36.9	50.4	57.1	67.2	57.1
85°	0.0	0.0	0.0	10.1	23.5	36.9	33.6	16.8	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°	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8
2.5°	9153.8	9022.8	8724.0	8572.9	8216.9	8166.5	7817.3	7760.2	7642.7	7578.9	7424.4
5°	8374.7	8216.9	7730.0	7320.3	6843.5	6511.1	6255.9	6024.2	5889.9	5765.6	5822.7
7.5°	7740.1	7280.0	6739.4	6054.4	5503.7	5147.7	4758.2	4439.2	4251.2	4123.6	4153.8
10°	7075.2	6776.4	6024.2	5255.2	4590.3	4338.5	4032.9	3787.8	3522.5	3294.2	3186.7
12.5°	6867.0	6423.8	5480.2	4697.8	4194.1	3949.0	3599.7	3317.7	2978.5	2699.8	2602.4
15°	6904.0	6477.5	5332.4	4496.3	3901.9	3478.8	3062.5	2713.2	2340.5	2145.7	2045.0
17.5°	7505.0	6766.3	5429.8	4284.7	3495.6	2908.0	2394.2	1951.0	1672.3	1470.8	1427.1
20°	8243.8	7390.9	5638.0	4130.3	3163.2	2313.6	1749.5	1366.7	1135.0	1101.4	1091.3
22.5°	9325.0	8411.7	6084.6	4026.2	2756.9	1803.2	1198.8	994.0	930.2	923.4	926.8
25°	10836.1	9691.1	6571.5	3938.9	2451.3	1390.2	980.5	842.8	822.7	812.6	829.4
27.5°	11490.9	10463.4	6830.1	3750.8	2172.6	1252.5	967.1	836.1	779.0	762.3	772.3
30°	12300.2	10977.2	7236.4	3428.5	1762.9	1030.9	903.3	910.0	883.1	799.2	772.3
32.5°	13374.7	11618.5	7441.2	3200.1	1574.9	852.9	661.5	607.8	678.3	691.7	715.2
35°	14063.1	12270.0	7545.3	3065.8	1477.5	728.7	560.8	510.4	493.6	497.0	510.4
37.5°	15342.5	13149.7	7676.3	2924.8	1403.6	634.7	507.1	460.0	436.5	436.5	450.0
40°	16108.1	13848.2	7854.3	2847.5	1329.7	577.6	460.0	419.7	399.6	399.6	406.3
42.5°	16299.5	14194.1	7793.8	2820.7	1245.8	564.1	419.7	389.5	366.0	362.7	359.3
45°	16642.0	14721.3	7803.9	2790.5	1158.5	513.8	396.2	362.7	329.1	325.7	322.4
47.5°	17018.1	15100.7	7824.0	2672.9	1074.5	429.8	413.0	335.8	295.5	288.8	288.8
50°	16695.7	15402.9	7998.6	2555.4	967.1	349.2	406.3	315.6	261.9	251.8	255.2
52.5°	16736.0	15758.9	8368.0	2390.9	832.8	278.7	329.1	298.9	238.4	221.6	225.0
55°	16091.3	15382.8	8418.4	2216.2	651.4	214.9	251.8	261.9	201.5	194.8	194.8
57.5°	13851.6	13025.5	7427.8	1796.5	429.8	178.0	181.3	228.3	174.6	167.9	171.3
60°	11853.6	10456.7	5977.2	1185.4	268.6	141.0	131.0	231.7	154.5	151.1	161.2
62.5°	10805.9	8593.0	4533.2	735.4	184.7	107.5	90.7	188.0	134.3	134.3	147.7
65°	7807.2	5772.3	2636.0	386.2	131.0	83.9	67.2	107.5	110.8	114.2	120.9
67.5°	4835.5	2914.7	1111.5	188.0	87.3	57.1	43.7	67.2	73.9	73.9	80.6
70°	2387.5	1161.9	369.4	107.5	67.2	47.0	30.2	36.9	36.9	33.6	36.9
72.5°	738.7	349.2	94.0	67.2	47.0	30.2	16.8	13.4	6.7	0.0	3.4
75°	83.9	67.2	60.4	47.0	30.2	13.4	3.4	0.0	0.0	0.0	0.0
77.5°	50.4	57.1	57.1	47.0	30.2	10.1	0.0	0.0	0.0	0.0	0.0
80°	40.3	43.7	47.0	43.7	26.9	13.4	0.0	0.0	0.0	0.0	0.0
82.5°	50.4	57.1	63.8	57.1	36.9	16.8	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.1	3.4	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°	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8
2.5°	7360.6	7286.8	7390.9	7236.4	7233.0	7236.4	7192.7	7152.4	7216.2	7387.5	7404.3
5°	5617.9	5775.7	5826.0	5990.6	5899.9	5765.6	5792.5	5701.8	5923.4	6020.8	5943.6
7.5°	4090.0	4079.9	4419.1	4439.2	4482.9	4486.2	4479.5	4301.5	4120.2	4160.5	4281.4
10°	3173.3	3002.0	3166.6	3149.8	3257.2	3227.0	3270.6	3079.2	3143.0	3143.0	3220.3
12.5°	2585.6	2404.3	2374.1	2330.4	2374.1	2390.9	2407.7	2370.7	2478.2	2528.5	2582.3
15°	1974.5	1873.7	1846.9	1762.9	1776.4	1823.4	1863.7	1880.5	1846.9	1924.1	1930.8
17.5°	1433.8	1430.5	1447.3	1443.9	1430.5	1420.4	1417.1	1373.4	1360.0	1366.7	1393.6
20°	1088.0	1114.8	1171.9	1229.0	1259.2	1222.3	1171.9	1098.1	1067.8	1074.5	1077.9
22.5°	930.2	970.4	1047.7	1111.5	1141.7	1074.5	983.9	920.1	906.6	903.3	899.9
25°	842.8	889.9	946.9	967.1	963.7	923.4	856.3	829.4	822.7	816.0	785.8
27.5°	795.8	812.6	822.7	846.2	856.3	829.4	812.6	772.3	765.6	765.6	745.5
30°	769.0	758.9	772.3	755.5	769.0	748.8	752.2	752.2	735.4	742.1	742.1
32.5°	715.2	718.6	718.6	685.0	695.1	671.6	695.1	715.2	718.6	722.0	748.8
35°	523.8	584.3	614.5	614.5	624.6	607.8	604.4	580.9	550.7	520.5	507.1
37.5°	460.0	483.5	523.8	547.3	564.1	550.7	520.5	483.5	466.8	453.3	439.9
40°	409.7	429.8	456.7	483.5	517.1	500.3	453.3	436.5	416.4	416.4	403.0
42.5°	369.4	379.4	396.2	436.5	473.5	439.9	406.3	392.9	382.8	379.4	376.1
45°	332.4	335.8	352.6	386.2	429.8	396.2	362.7	345.9	349.2	352.6	349.2
47.5°	298.9	305.6	315.6	355.9	382.8	366.0	329.1	319.0	319.0	319.0	322.4
50°	258.6	275.4	295.5	329.1	349.2	339.2	308.9	295.5	288.8	288.8	292.1
52.5°	231.7	245.1	272.0	312.3	339.2	322.4	292.1	272.0	258.6	255.2	261.9
55°	201.5	225.0	268.6	298.9	335.8	319.0	285.4	261.9	238.4	235.1	235.1
57.5°	181.3	218.3	258.6	295.5	325.7	312.3	285.4	255.2	225.0	221.6	221.6
60°	171.3	211.6	251.8	285.4	325.7	305.6	282.1	248.5	214.9	214.9	211.6
62.5°	161.2	198.1	238.4	272.0	312.3	295.5	272.0	238.4	204.8	204.8	198.1
65°	134.3	171.3	198.1	228.3	272.0	255.2	231.7	208.2	181.3	174.6	178.0
67.5°	94.0	117.5	144.4	174.6	201.5	194.8	184.7	167.9	144.4	141.0	137.7
70°	47.0	63.8	87.3	117.5	141.0	134.3	127.6	114.2	100.7	97.4	97.4
72.5°	6.7	20.1	36.9	53.7	73.9	77.2	73.9	70.5	67.2	63.8	67.2
75°	0.0	0.0	0.0	13.4	30.2	36.9	43.7	50.4	50.4	43.7	53.7
77.5°	0.0	0.0	0.0	0.0	3.4	16.8	33.6	43.7	53.7	47.0	63.8
80°	0.0	0.0	0.0	0.0	3.4	20.1	33.6	47.0	53.7	47.0	67.2
82.5°	0.0	0.0	0.0	0.0	3.4	23.5	33.6	43.7	50.4	47.0	60.4
85°	0.0	0.0	0.0	0.0	10.1	20.1	13.4	6.7	3.4	3.4	10.1
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: P532603

CATALOG NUMBER: GALN-SA8A-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8	8656.8
2.5°	7498.3	7736.7	7991.9	8089.3	8391.5	8619.9	8774.3	9106.8	9157.1	9160.5
5°	6024.2	6145.1	6581.6	6786.4	7236.4	7585.6	7958.4	8495.6	8854.9	8881.8
7.5°	4281.4	4617.2	4801.9	5335.8	5889.9	6437.2	6991.3	7615.8	8032.2	8042.3
10°	3445.3	3663.5	3992.6	4392.2	4859.0	5416.4	6155.1	6880.4	7303.5	7407.6
12.5°	2773.7	3156.5	3532.6	3945.6	4301.5	4721.3	5517.1	6484.2	6833.4	7041.6
15°	2135.7	2484.9	2928.1	3411.7	3814.6	4375.4	5282.1	6386.8	6974.5	7045.0
17.5°	1574.9	1887.2	2296.8	2753.5	3358.0	4153.8	5322.4	6880.4	7434.5	7552.0
20°	1131.6	1313.0	1635.3	2165.9	2934.9	3895.2	5362.7	7380.8	8223.6	8425.1
22.5°	896.6	970.4	1182.0	1652.1	2461.4	3623.2	5648.1	8337.8	9308.2	9600.4
25°	779.0	819.3	920.1	1302.9	2162.5	3596.4	6104.8	9486.2	10752.2	10963.7
27.5°	752.2	758.9	846.2	1195.4	2001.3	3418.4	6279.4	10302.2	11652.1	11867.0
30°	792.5	899.9	906.6	1010.7	1702.5	3065.8	6370.0	11091.3	12414.4	12572.2
32.5°	685.0	651.4	674.9	782.4	1497.6	2861.0	6541.3	11779.7	13284.1	13394.9
35°	476.8	500.3	554.1	678.3	1309.6	2646.1	6584.9	12538.6	14110.1	14224.3
37.5°	439.9	453.3	497.0	577.6	1151.8	2525.2	6524.5	13092.7	14966.4	15124.2
40°	409.7	426.5	450.0	523.8	1034.2	2390.9	6440.6	13593.0	15490.2	15879.8
42.5°	386.2	399.6	419.7	500.3	933.5	2256.5	6323.0	14298.2	15960.4	16299.5
45°	359.3	379.4	403.0	486.9	876.4	2165.9	6235.7	14254.5	16232.3	16413.7
47.5°	332.4	366.0	392.9	453.3	859.6	2122.2	6272.7	14090.0	16010.7	15886.5
50°	305.6	349.2	396.2	376.1	819.3	2034.9	6316.3	14315.0	15483.5	15460.0
52.5°	282.1	332.4	369.4	308.9	728.7	1951.0	6739.4	14610.5	15856.3	15544.0
55°	248.5	298.9	295.5	248.5	591.0	1887.2	7071.9	14617.2	15604.4	15721.9
57.5°	225.0	265.3	231.7	208.2	436.5	1578.2	6531.2	12256.5	13357.9	13566.1
60°	208.2	258.6	174.6	164.5	285.4	1138.3	5701.8	9492.9	10617.8	11010.7
62.5°	191.4	245.1	137.7	134.3	198.1	809.3	4687.7	7944.9	9150.4	9684.3
65°	167.9	174.6	110.8	104.1	141.0	436.5	2854.3	5470.1	6840.2	7038.3
67.5°	137.7	134.3	90.7	83.9	94.0	211.6	1259.2	2740.1	3965.7	4298.2
70°	110.8	110.8	77.2	67.2	67.2	97.4	329.1	1091.3	1793.1	1984.6
72.5°	80.6	83.9	60.4	53.7	50.4	47.0	53.7	218.3	470.1	601.1
75°	70.5	73.9	60.4	47.0	36.9	30.2	23.5	20.1	26.9	43.7
77.5°	77.2	77.2	63.8	43.7	33.6	23.5	13.4	6.7	6.7	3.4
80°	97.4	100.7	83.9	57.1	40.3	26.9	16.8	6.7	3.4	3.4
82.5°	104.1	114.2	94.0	70.5	50.4	30.2	16.8	3.4	0.0	0.0
85°	26.9	43.7	73.9	63.8	50.4	30.2	16.8	3.4	0.0	0.0
87.5°	0.0	3.4	10.1	10.1	13.4	13.4	10.1	3.4	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)