

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: P652397

Luminaire Tested: **GALN-SA5B-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20657.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

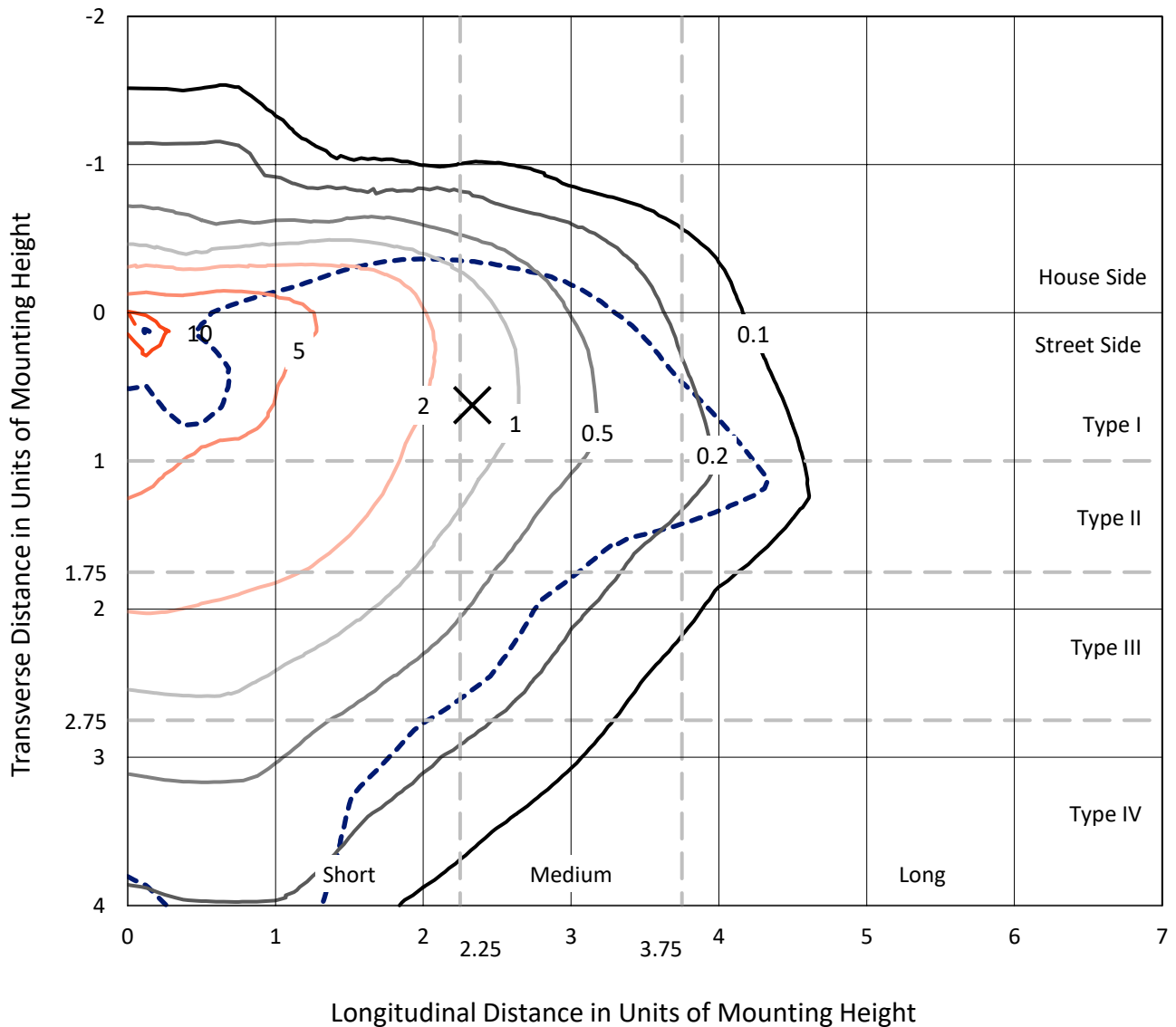
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

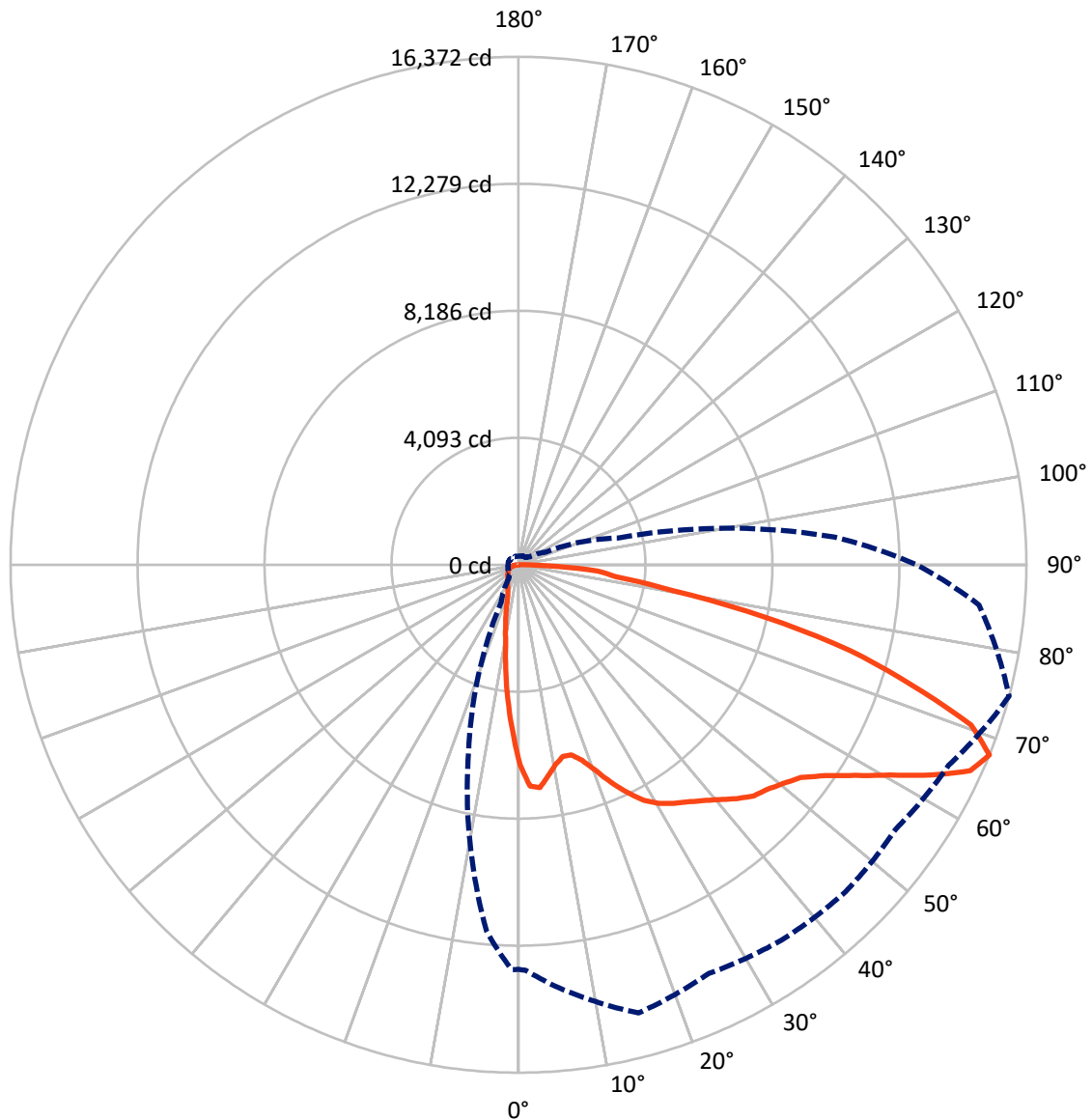
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P652397
CATALOG NUMBER: GALN-SA5B-840-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

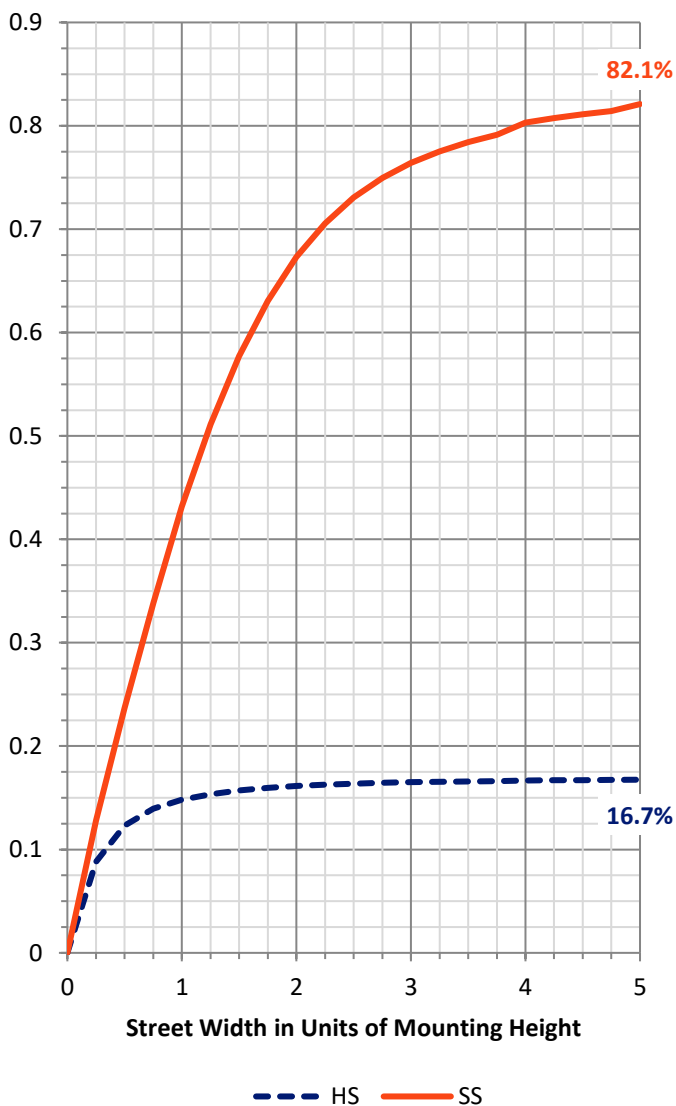
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3491.6	0.0	3491.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	17165.9	0.0	17165.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	20657.5	0.0	20657.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.5	2.4
10°-20°	1020.9	4.9
20°-30°	1469.1	7.1
30°-40°	2115.9	10.2
40°-50°	2972.2	14.4
50°-60°	4145.2	20.1
60°-70°	4928.4	23.9
70°-80°	2902.5	14.1
80°-90°	613.8	3.0
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°	20657.5	100.0
0°-180°	20657.5	100.0

Coefficient of Utilization

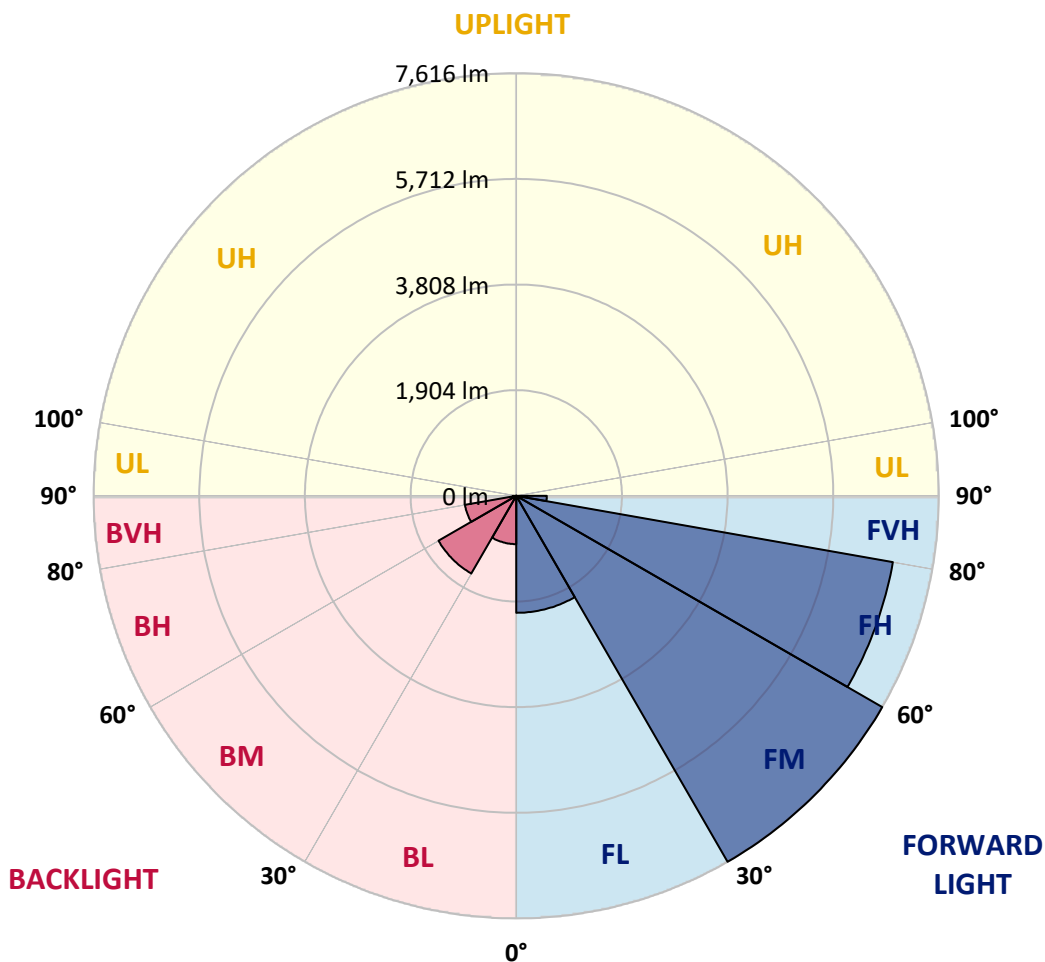


REPORT NUMBER: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2108.6	10.2			
FM (30°-60°)	7615.7	36.9			
FH (60°-80°)	6891.4	33.4			G3/7500
FVH (80°-90°)	550.3	2.7			G4/750
BL (0°-30°)	870.9	4.2	B2/1000		
BM (30°-60°)	1617.7	7.8	B2/2500		
BH (60°-80°)	939.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	63.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9
2.5°	6958.6	6967.9	7027.5	7201.0	7320.2	7364.0	7394.4	7337.5	7281.8	7146.7	6942.7
5°	6937.4	6991.7	7146.7	7536.1	7843.5	7976.0	8015.7	7844.8	7562.7	7215.6	6798.3
7.5°	6532.0	6604.9	6843.4	7496.4	8038.2	8348.2	8307.1	7998.5	7489.8	6871.1	6288.3
10°	6051.2	6132.0	6419.4	7209.0	7907.1	8333.6	8333.6	7957.4	7281.8	6546.6	5875.0
12.5°	5669.7	5754.5	6083.0	6913.5	7634.2	8038.2	8105.8	7782.5	7132.1	6341.3	5603.4
15°	5543.8	5626.0	5979.7	6734.7	7345.4	7591.8	7614.3	7508.4	7059.3	6355.9	5591.5
17.5°	5700.1	5806.1	6163.8	6787.7	7080.5	7095.0	7112.3	7195.7	7067.3	6622.1	5832.6
20°	6151.8	6265.8	6639.4	6958.6	6848.7	6697.6	6706.9	6921.5	7161.3	7061.9	6408.8
22.5°	6803.6	6902.9	7285.8	7259.3	6750.6	6439.3	6374.4	6673.8	7300.4	7610.4	7022.2
25°	7507.0	7623.6	8063.4	7705.7	6778.5	6285.6	6244.6	6528.1	7444.8	8123.0	7730.9
27.5°	8312.4	8426.3	8773.4	8156.1	6924.1	6273.7	6224.7	6514.8	7574.6	8597.2	8407.8
30°	8911.2	9015.9	9251.6	8535.0	7103.0	6353.3	6292.3	6619.5	7685.8	8921.7	9067.5
32.5°	9381.4	9490.1	9618.6	8770.8	7338.8	6497.6	6385.0	6810.2	7831.6	9169.5	9556.3
35°	9871.6	10000.1	9990.8	8980.0	7558.7	6664.5	6554.6	7085.8	8060.7	9385.4	10176.3
37.5°	10492.9	10544.5	10478.3	9168.2	7822.3	6965.2	6904.3	7495.1	8386.6	9646.4	10900.9
40°	11123.4	11226.8	10886.3	9396.0	8142.9	7530.8	7524.3	8100.5	8773.4	9952.4	11602.9
42.5°	11663.9	11751.3	11267.8	9594.7	8531.0	8221.0	8271.3	8912.5	9280.8	10307.4	12167.3
45°	12070.5	12148.7	11620.2	9786.8	9042.3	9018.5	9315.3	9782.8	9920.6	10626.6	12498.4
47.5°	12416.3	12491.8	11865.2	10078.2	9674.2	9970.9	10487.6	10690.2	10467.7	10809.5	12869.3
50°	12707.8	12730.3	12033.4	10425.3	10458.4	11138.0	11638.7	11769.9	11008.2	11071.8	13191.3
52.5°	13011.1	12981.9	12323.6	10862.4	11306.2	12245.5	12609.7	12746.2	11526.2	11395.0	13660.2
55°	13690.6	13718.5	12974.0	11413.5	12163.3	13333.0	13812.5	13681.4	12099.7	11989.8	14256.3
57.5°	14512.0	14488.2	13889.4	12275.9	13036.3	14345.0	14702.7	14492.1	12865.4	12807.1	14860.4
60°	14831.2	14863.0	14655.0	13203.2	13897.4	15231.3	15596.9	15269.7	13783.4	13756.9	15316.0
62.5°	14510.6	14689.5	14829.9	14028.5	14631.2	15883.0	16246.0	15872.4	14741.1	14933.2	15635.3
65°	13872.1	13910.6	14388.8	14727.9	14984.9	15990.4	16179.7	15981.0	15541.3	16004.9	15620.7
67.5°	13042.9	13076.0	13636.3	14957.1	14529.2	14771.6	14904.1	14845.8	15293.5	16371.8	14901.4
70°	12253.4	12226.9	12819.0	14372.9	12648.1	12279.9	12389.8	12207.0	13196.6	15475.0	13490.6
72.5°	10716.8	10812.1	11447.9	12748.8	10014.6	9415.9	9655.7	9182.7	10149.8	13253.5	10949.9
75°	8394.5	8417.1	9478.2	10699.5	7554.7	6610.2	6934.7	6737.3	7774.6	11055.9	7561.3
77.5°	5812.7	5762.4	6902.9	8172.0	5387.5	4839.1	4844.4	4750.3	5428.6	8140.2	5137.2
80°	3691.9	3615.0	4321.1	5048.4	3702.5	3960.9	3831.0	3827.1	3534.3	5021.9	3106.4
82.5°	1995.0	2079.8	2730.2	3164.7	2656.0	3061.3	2805.7	2723.6	2425.5	3143.5	1987.0
85°	908.7	988.3	1455.9	2152.6	2017.5	2040.0	1363.1	1608.2	2006.9	2552.7	1061.1
87.5°	88.7	114.0	300.7	1016.0	688.9	543.1	202.7	390.8	504.7	907.4	84.8
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: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9
2.5°	6859.3	6790.3	6555.8	6362.5	6157.1	6000.9	5796.8	5660.4	5566.3	5424.6	5407.4
5°	6544.0	6375.7	5967.7	5551.8	5192.8	4922.5	4648.4	4396.7	4248.3	4201.9	4142.3
7.5°	6012.7	5729.3	5204.7	4727.8	4315.8	3913.2	3603.2	3383.3	3236.3	3150.1	3046.8
10°	5575.6	5247.1	4608.6	4024.4	3685.3	3434.9	3162.0	2926.3	2744.8	2589.8	2505.0
12.5°	5281.6	4910.6	4192.6	3718.4	3456.1	3189.8	2870.6	2605.7	2338.1	2161.9	2086.4
15°	5192.8	4800.7	4064.1	3566.1	3189.8	2841.5	2483.8	2138.1	1873.1	1706.2	1650.5
17.5°	5410.1	4935.8	4062.8	3363.4	2877.2	2461.3	2002.9	1678.4	1406.8	1282.3	1242.6
20°	5815.3	5195.4	4074.7	3163.3	2538.1	1952.6	1457.1	1190.9	1061.1	1008.1	988.3
22.5°	6381.0	5591.5	4110.5	2966.0	2167.2	1499.6	1091.5	956.4	910.0	900.8	896.8
25°	7077.9	6081.6	4231.1	2788.5	1854.6	1144.5	912.7	851.8	825.3	816.0	814.7
27.5°	7719.0	6714.9	4376.7	2636.1	1552.6	986.9	825.3	773.6	747.1	745.8	748.5
30°	8297.9	7244.7	4498.7	2465.2	1323.4	876.9	768.3	716.6	691.5	690.1	698.1
32.5°	8798.6	7680.5	4588.7	2297.0	1196.2	809.4	716.6	661.0	639.8	635.9	639.8
35°	9333.8	8115.1	4547.6	2165.8	1123.3	753.8	678.3	623.9	598.8	586.8	586.8
37.5°	9944.4	8562.8	4477.5	2057.3	1090.2	707.4	645.1	592.1	567.0	555.1	553.7
40°	10610.7	9010.6	4380.8	1960.5	1057.1	679.5	622.6	567.0	536.5	524.6	521.9
42.5°	11198.9	9393.4	4301.3	1897.0	1002.8	684.8	602.7	548.4	510.0	494.1	492.8
45°	11710.3	9778.9	4286.7	1859.9	957.7	676.9	597.4	533.9	488.8	471.5	468.9
47.5°	12110.3	10180.2	4370.2	1838.7	908.7	634.5	631.8	524.6	470.3	451.7	449.1
50°	12597.8	10749.8	4560.9	1794.9	863.7	594.8	667.7	523.3	455.7	431.9	425.2
52.5°	13246.9	11491.7	4819.2	1716.8	798.8	557.7	637.1	523.3	438.5	414.6	406.7
55°	14228.5	12437.5	5072.2	1606.8	707.4	508.7	574.9	507.4	413.3	392.1	386.8
57.5°	14878.9	13129.0	5233.9	1454.5	593.5	472.9	495.4	482.1	388.1	365.6	365.6
60°	14912.0	13314.5	5157.0	1262.4	521.9	439.8	430.5	486.2	365.6	341.8	339.1
62.5°	14530.5	12860.1	4756.9	1090.2	483.5	404.0	389.5	426.6	343.1	319.2	315.3
65°	13934.4	11701.0	4062.8	1008.1	462.3	372.2	351.0	349.7	319.2	296.7	291.4
67.5°	12838.9	10225.3	3338.2	960.4	451.7	336.5	316.6	310.0	291.4	272.9	270.2
70°	11224.1	8564.2	2677.2	940.5	446.4	299.4	283.5	275.5	259.6	245.1	243.7
72.5°	8732.4	6946.7	2209.6	927.3	443.8	264.9	247.8	237.1	227.8	214.6	214.6
75°	6272.4	5110.7	1686.3	835.9	410.7	227.8	209.3	202.7	189.4	178.8	181.5
77.5°	3954.2	3441.5	1110.1	614.7	317.9	182.8	166.9	162.9	152.3	137.8	147.0
80°	2670.6	2420.2	647.7	386.8	200.0	133.8	128.5	127.2	115.2	99.3	100.7
82.5°	1817.5	1783.0	336.5	219.9	115.2	78.1	75.5	78.1	64.9	53.0	53.0
85°	710.1	969.7	158.9	86.1	37.1	11.9	17.2	18.6	10.6	5.3	6.6
87.5°	13.3	99.3	4.0	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: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9
2.5°	5380.9	5368.9	5388.9	5304.0	5321.3	5353.0	5368.9	5378.3	5509.4	5478.9	5562.4
5°	4197.9	4186.0	4262.9	4273.5	4313.2	4305.2	4343.7	4352.9	4400.6	4417.9	4534.4
7.5°	3053.4	3105.1	3192.5	3237.5	3305.1	3326.3	3306.4	3355.4	3256.1	3327.6	3348.8
10°	2453.4	2391.0	2354.0	2457.3	2470.5	2568.6	2528.8	2497.0	2555.3	2558.0	2613.6
12.5°	2042.7	1908.9	1820.1	1849.3	1881.1	1923.5	1930.1	1993.7	2036.1	2075.8	2108.9
15°	1601.5	1555.2	1474.4	1434.7	1479.7	1496.9	1537.9	1590.9	1636.0	1647.9	1692.9
17.5°	1229.3	1237.3	1224.0	1200.2	1228.0	1241.2	1243.9	1245.2	1257.1	1249.2	1315.4
20°	989.5	1017.4	1050.5	1055.8	1065.0	1071.7	1059.7	1014.8	1016.0	1043.8	1065.0
22.5°	895.5	900.8	937.9	949.8	978.9	967.0	932.6	911.4	908.7	915.3	925.9
25°	821.3	829.2	855.7	874.3	896.8	875.6	850.4	830.6	828.0	834.5	845.1
27.5°	755.0	767.0	790.9	809.4	830.6	810.7	786.8	769.7	768.3	767.0	773.6
30°	702.1	715.4	732.6	753.8	768.3	751.1	728.6	719.3	718.0	715.4	718.0
32.5°	649.1	670.3	687.5	698.1	712.7	699.5	682.2	676.9	667.7	659.7	655.7
35°	589.5	612.0	638.5	651.8	666.3	653.0	641.2	618.6	602.7	601.4	604.1
37.5°	555.1	564.3	585.5	608.0	622.6	615.9	593.5	571.0	567.0	567.0	569.6
40°	524.6	528.6	537.8	567.0	593.5	573.6	545.8	539.2	539.2	537.8	539.2
42.5°	494.1	498.1	498.1	520.6	563.0	531.2	510.0	510.0	510.0	511.3	515.3
45°	466.3	467.6	466.3	482.1	521.9	495.4	480.9	484.8	487.5	490.1	492.8
47.5°	442.5	443.8	442.5	455.7	475.6	465.0	457.0	462.3	467.6	471.5	474.2
50°	421.3	419.9	422.6	430.5	439.8	442.5	437.2	445.1	447.7	453.0	459.7
52.5°	402.7	401.4	404.0	408.0	421.3	421.3	421.3	427.9	433.2	438.5	447.7
55°	381.5	382.8	386.8	392.1	409.3	406.7	408.0	413.3	418.6	426.6	431.9
57.5°	361.6	364.3	369.6	377.5	394.8	393.4	394.8	397.4	404.0	408.0	413.3
60°	339.1	344.4	351.0	356.3	373.6	372.2	378.9	384.2	388.1	388.1	390.8
62.5°	316.6	324.5	331.2	335.1	353.7	355.0	364.3	368.3	370.9	368.3	372.2
65°	294.1	306.0	308.6	313.9	332.5	333.8	344.4	353.7	351.0	348.4	355.0
67.5°	271.6	286.1	284.8	291.4	310.0	312.6	321.9	337.8	332.5	329.8	335.1
70°	246.4	257.0	258.4	262.3	287.5	283.5	298.1	312.6	308.6	310.0	310.0
72.5°	218.6	227.8	227.8	235.8	262.3	255.7	267.6	283.5	283.5	282.2	282.2
75°	185.4	190.7	196.0	208.0	235.8	227.8	235.8	250.4	253.1	250.4	250.4
77.5°	149.7	157.6	160.3	176.2	196.0	194.7	202.7	209.3	214.6	211.9	211.9
80°	106.0	114.0	124.6	141.7	153.7	157.6	161.6	166.9	169.5	169.5	172.2
82.5°	59.6	71.6	80.8	98.1	103.4	123.2	121.9	125.8	121.9	107.3	119.3
85°	13.3	25.1	35.7	45.1	51.6	71.6	75.5	84.8	70.2	64.9	64.9
87.5°	0.0	0.0	0.0	0.0	0.0	10.6	21.2	29.2	25.1	21.2	21.2
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: P652397
 CATALOG NUMBER: GALN-SA5B-840-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9	6453.9
2.5°	5632.6	5747.8	5886.9	6126.7	6294.9	6476.4	6659.2	6854.0	6905.6	6958.6
5°	4566.2	4792.7	4915.9	5237.8	5575.6	6004.8	6355.9	6740.0	6900.3	6937.4
7.5°	3458.8	3612.4	3935.6	4261.5	4680.2	5130.5	5668.3	6267.1	6453.9	6532.0
10°	2742.1	2951.4	3234.9	3584.6	3951.5	4436.4	5043.1	5742.5	6007.4	6051.2
12.5°	2334.1	2567.2	2875.9	3245.5	3592.6	3958.2	4570.2	5292.2	5575.6	5669.7
15°	1866.5	2148.7	2505.0	2894.5	3272.0	3672.1	4292.0	5106.6	5433.9	5543.8
17.5°	1466.5	1694.3	2079.8	2502.3	2950.1	3456.1	4233.7	5195.4	5598.1	5700.1
20°	1122.0	1285.0	1609.5	2055.9	2580.5	3242.8	4248.3	5530.6	6012.7	6151.8
22.5°	969.7	1053.1	1250.5	1675.7	2262.5	3057.4	4307.9	5990.3	6571.7	6803.6
25°	878.3	922.0	1033.3	1311.5	1959.2	2877.2	4444.3	6608.9	7353.4	7507.0
27.5°	800.1	831.9	900.8	1100.8	1683.7	2710.3	4603.3	7295.1	8083.3	8312.4
30°	726.0	768.3	833.3	977.7	1507.5	2558.0	4803.3	7851.4	8697.9	8911.2
32.5°	668.9	711.3	770.9	891.5	1357.8	2397.7	4922.5	8340.3	9200.0	9381.4
35°	622.6	658.3	720.7	822.7	1243.9	2275.8	4898.7	8728.4	9686.1	9871.6
37.5°	589.5	620.0	682.2	757.7	1157.8	2148.7	4886.8	9241.0	10278.3	10492.9
40°	559.0	590.8	647.7	715.4	1071.7	1999.0	4893.4	9749.7	10908.8	11123.4
42.5°	535.2	571.0	617.3	703.4	983.0	1878.4	4893.4	10192.2	11457.3	11663.9
45°	515.3	553.7	598.8	702.1	912.7	1787.0	4860.3	10572.4	11894.3	12070.5
47.5°	498.1	540.5	605.4	678.3	895.5	1720.8	4831.1	10877.0	12250.8	12416.3
50°	486.2	536.5	643.8	650.4	900.8	1700.9	4971.6	11261.2	12564.7	12707.8
52.5°	476.8	537.8	642.4	609.4	891.5	1714.1	5264.3	11861.3	13000.5	13011.1
55°	458.3	536.5	609.4	563.0	853.1	1736.7	5640.5	12732.9	13682.7	13690.6
57.5°	439.8	521.9	565.7	523.3	775.0	1736.7	6093.5	13558.2	14505.3	14512.0
60°	421.3	543.1	496.8	488.8	673.0	1704.9	6571.7	13921.2	14763.7	14831.2
62.5°	402.7	547.1	443.8	458.3	598.8	1628.0	6928.2	13519.7	14414.0	14510.6
65°	381.5	441.1	409.3	426.6	560.4	1499.6	6815.5	12784.5	13756.9	13872.1
67.5°	356.3	373.6	372.2	393.4	547.1	1310.1	6222.1	11854.7	13049.5	13042.9
70°	325.9	335.1	339.1	361.6	521.9	1163.1	5184.8	10647.8	12105.0	12253.4
72.5°	294.1	302.0	306.0	325.9	496.8	1079.6	4024.4	8985.3	10484.9	10716.8
75°	259.6	264.9	270.2	287.5	470.3	956.4	2866.6	6859.3	8030.3	8394.5
77.5°	223.9	223.9	230.5	247.8	396.1	789.5	1923.5	4811.3	5440.5	5812.7
80°	181.5	182.8	180.1	198.7	291.4	540.5	1092.9	3213.7	3620.3	3691.9
82.5°	139.1	135.1	136.4	145.7	217.2	368.3	582.9	1996.3	2034.7	1995.0
85°	87.5	87.5	84.8	95.4	139.1	192.1	317.9	1222.7	955.1	908.7
87.5°	35.7	29.2	33.1	38.4	66.3	78.1	124.6	251.7	96.7	88.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)