

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: P650968

Luminaire Tested: **GALN-SA6C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19383.4 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

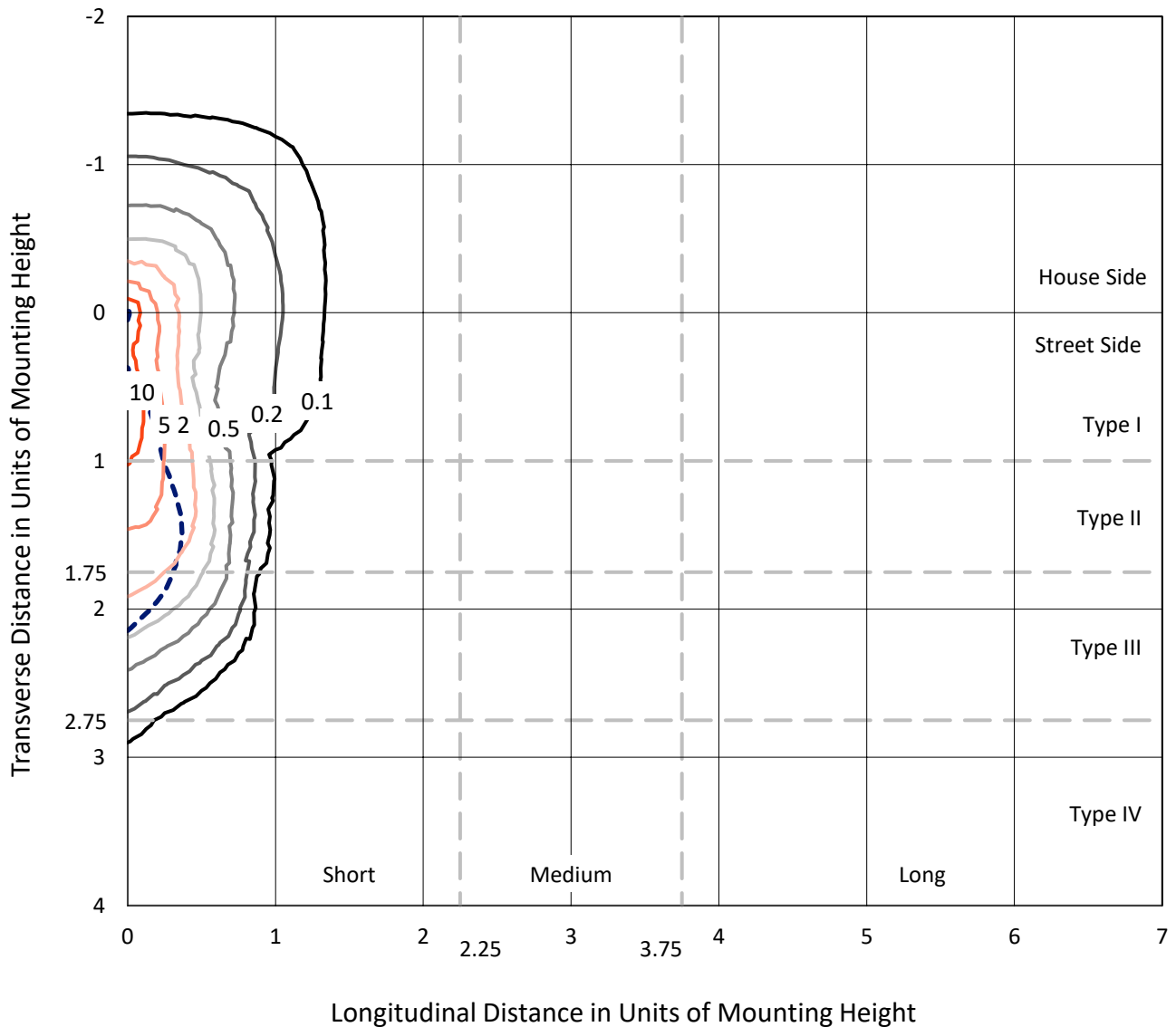
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

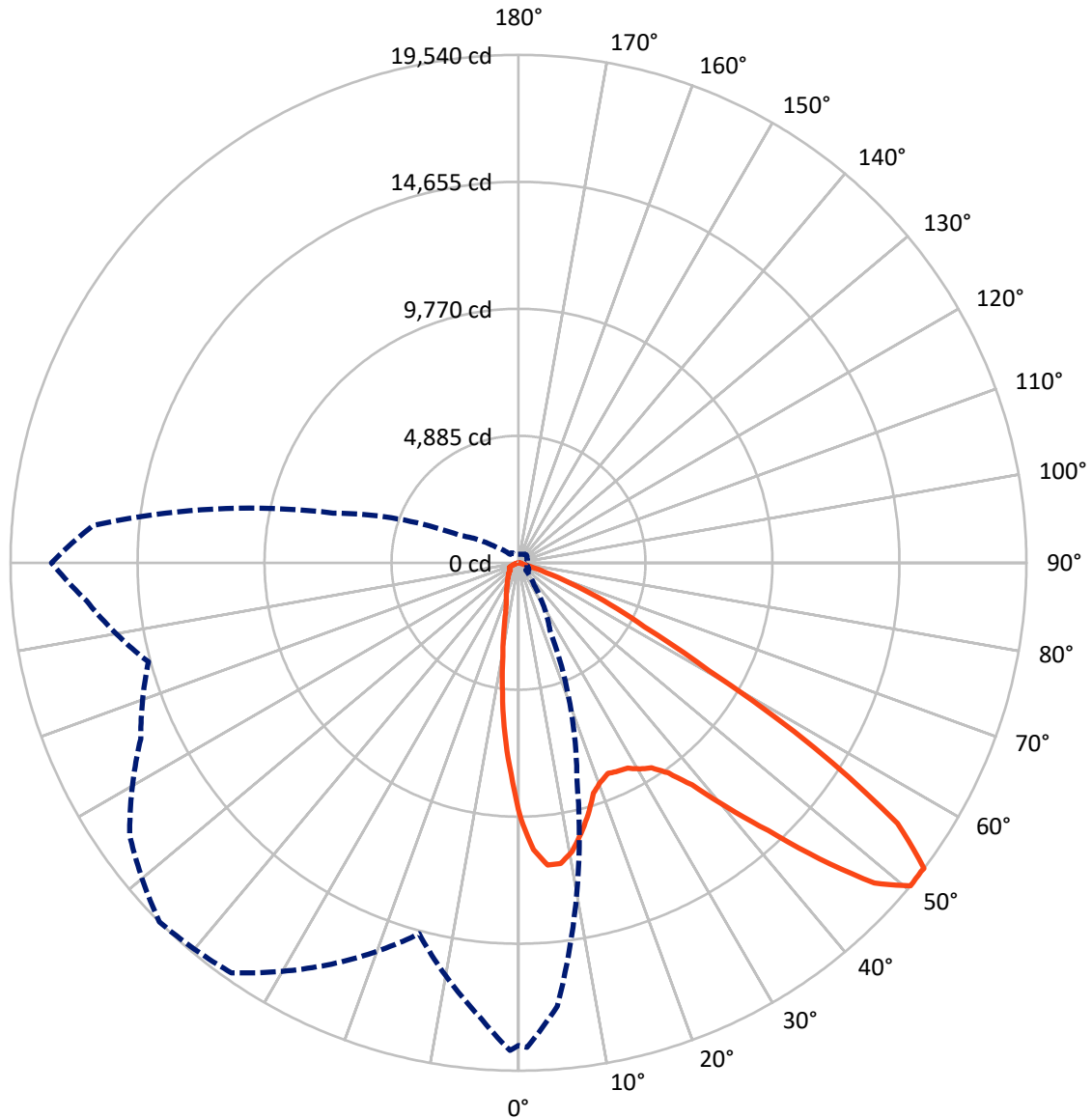
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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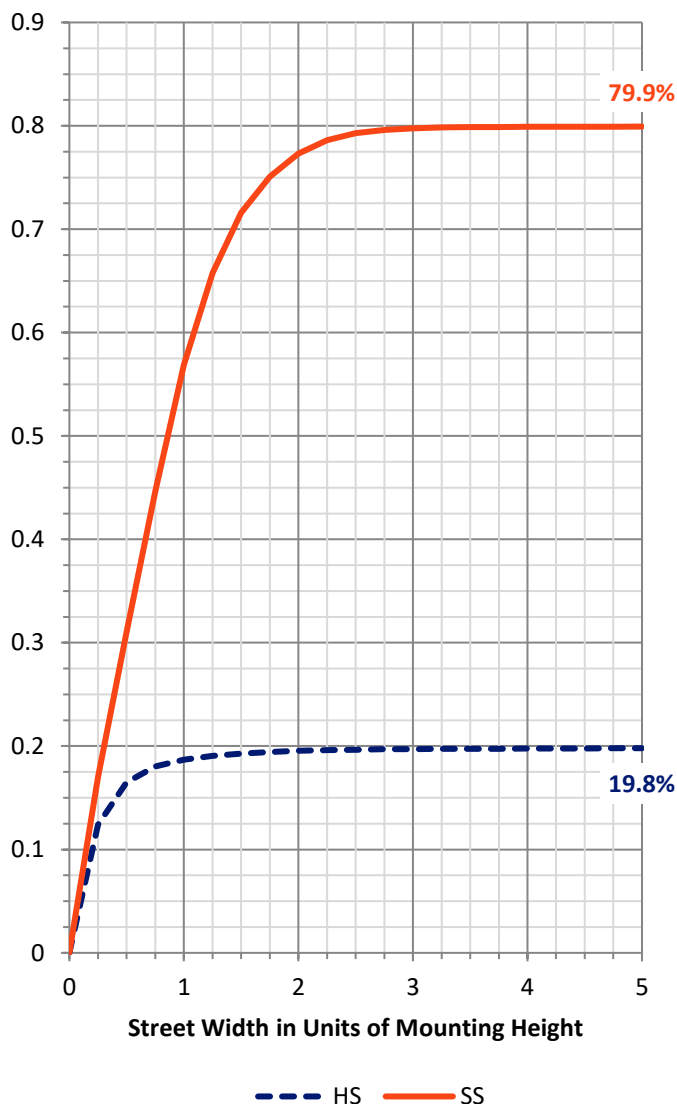
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3882.5	0.0	3882.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	15500.9	0.0	15500.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	19383.4	0.0	19383.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.5	3.7
10°-20°	1424.0	7.3
20°-30°	2139.3	11.0
30°-40°	3211.0	16.6
40°-50°	4512.8	23.3
50°-60°	4867.9	25.1
60°-70°	2260.1	11.7
70°-80°	212.6	1.1
80°-90°	39.2	0.2
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°	19383.4	100.0
0°-180°	19383.4	100.0

Coefficient of Utilization



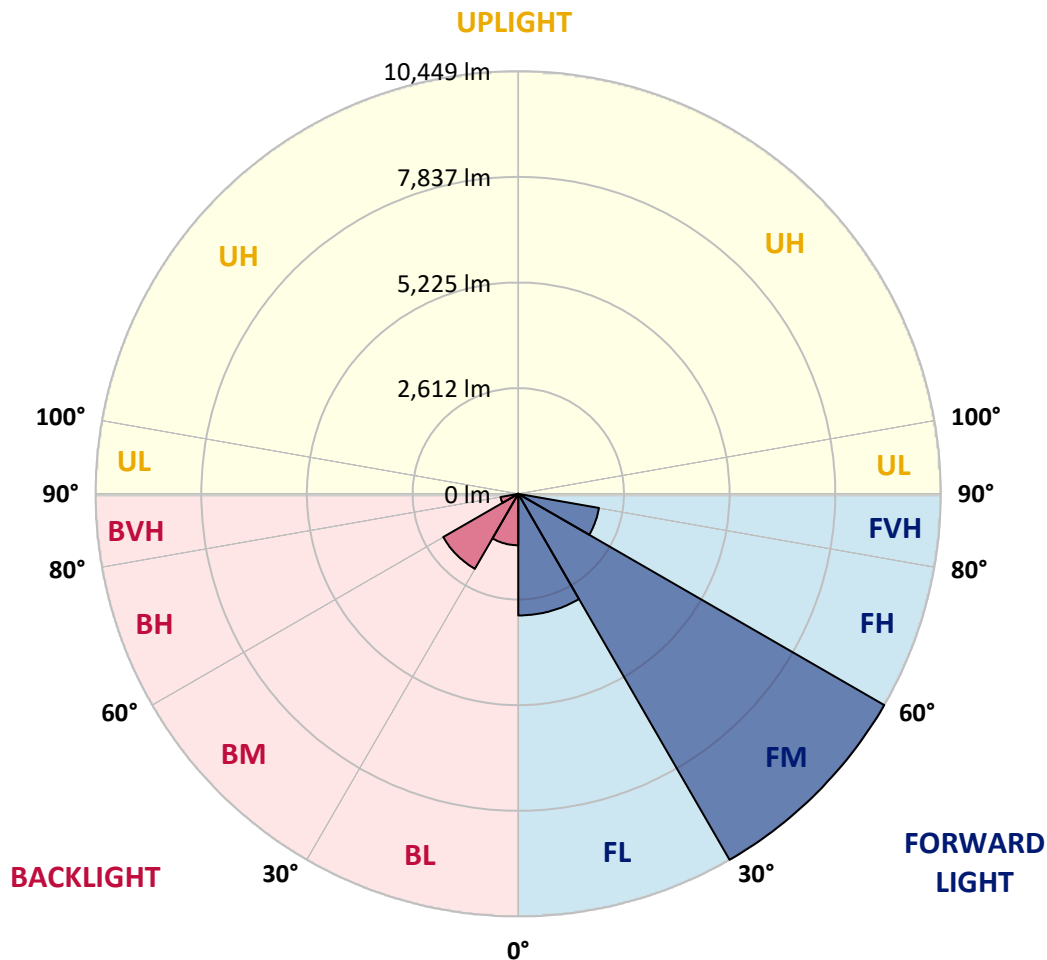
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.2	15.5			
FM	(30°-60°)	10449.1	53.9			
FH	(60°-80°)	2027.0	10.5			G2/5000
FVH	(80°-90°)	17.7	0.1			G1/100
BL	(0°-30°)	1272.6	6.6	B3/2500		
BM	(30°-60°)	2142.6	11.1	B2/2500		
BH	(60°-80°)	445.8	2.3	B1/500		G1/500
BVH	(80°-90°)	21.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8
2.5°	10218.2	10060.5	9860.6	9695.2	9449.1	8952.9	8818.4	8656.8	8522.3	8341.5	8087.6
5°	9291.4	9241.4	9149.1	8526.1	8076.1	7476.2	6983.9	6776.3	6503.2	6280.2	6118.6
7.5°	8583.8	8383.8	8091.5	7464.6	6745.5	6103.2	5557.2	5237.9	4876.5	4753.4	4534.2
10°	7826.2	7872.3	7441.6	6560.9	5691.7	5172.6	4834.2	4526.5	4199.6	3984.2	3672.7
12.5°	7583.9	7433.9	7103.2	6014.8	5272.6	4788.0	4376.5	3995.8	3649.6	3303.5	3003.5
15°	7741.6	7510.8	7049.3	5899.4	4949.5	4345.7	3830.4	3315.1	2995.9	2553.6	2242.1
17.5°	8306.9	8122.3	7503.1	6022.5	4784.1	3922.7	3157.4	2626.7	2138.2	1738.3	1580.6
20°	9249.1	8987.6	8210.8	6180.2	4538.0	3411.2	2561.3	1907.5	1446.0	1276.8	1188.3
22.5°	10172.1	10029.8	9049.1	6483.9	4318.8	2957.4	1922.9	1284.5	1080.7	1049.9	992.2
25°	11929.6	11502.7	10329.8	7034.0	4149.6	2530.5	1449.9	1034.5	915.3	892.2	900.0
27.5°	12975.6	12618.0	11514.3	7399.3	3961.2	2203.7	1226.8	949.9	869.2	819.1	800.0
30°	13979.4	13564.1	12102.7	7614.7	3557.3	1857.5	1088.3	911.5	892.2	819.1	796.1
32.5°	14752.4	14344.8	12952.6	7937.7	3392.0	1634.5	896.1	711.5	661.4	653.8	723.0
35°	15936.9	15502.3	13679.5	8114.6	3265.1	1519.1	776.8	634.5	576.8	553.8	557.7
37.5°	17040.7	16744.6	14352.4	8183.9	3130.5	1484.4	696.1	569.2	519.1	503.8	500.0
40°	17963.6	17302.1	14990.8	8256.9	3072.8	1419.1	646.1	519.1	484.6	461.5	461.5
42.5°	18386.7	17713.6	15706.2	8214.6	3057.4	1315.2	646.1	476.8	449.9	426.9	423.0
45°	18294.4	18021.3	16025.3	8195.4	3057.4	1211.5	588.4	465.3	426.9	396.1	388.5
47.5°	18532.8	18175.2	16425.3	8276.1	2995.9	1138.4	496.1	488.5	403.8	365.3	357.7
50°	18575.1	18644.3	17121.4	8695.3	2861.3	1046.0	388.5	480.7	388.5	330.8	323.0
52°	18852.0	18421.3	17332.9	8918.4	2719.0	976.8	326.9	411.5	373.1	307.6	300.0
52.5°	18471.3	18752.0	17382.9	8999.1	2734.3	930.7	315.4	403.8	365.3	307.6	288.5
55°	18044.4	18313.6	17179.1	9172.2	2507.4	730.7	246.2	292.2	330.8	269.2	257.7
57.5°	15683.1	15956.1	14929.3	8399.2	2042.1	515.4	203.9	219.2	292.2	249.9	238.4
60°	13940.9	13744.8	12529.6	7007.0	1449.9	288.5	161.6	169.2	319.2	230.8	226.9
62.5°	12741.1	12321.9	10472.0	5411.0	884.6	192.3	126.9	130.8	246.2	215.4	215.4
65°	9426.0	8956.8	6957.0	3272.8	434.5	134.6	96.1	103.9	153.8	184.6	184.6
67.5°	5380.2	5199.5	3361.2	1476.8	180.7	84.6	73.1	80.7	119.3	150.0	142.3
70°	2472.9	2219.0	1292.2	311.5	84.6	57.7	57.7	65.3	96.1	111.5	103.9
72.5°	723.0	684.6	315.4	50.0	34.6	34.6	38.4	50.0	73.1	84.6	77.0
75°	53.8	34.6	23.0	15.4	15.4	23.0	30.8	50.0	73.1	80.7	65.3
77.5°	3.9	7.7	3.9	3.9	11.5	23.0	34.6	61.6	96.1	100.0	73.1
80°	3.9	3.9	0.0	3.9	11.5	23.0	38.4	69.2	107.6	115.4	61.6
82.5°	0.0	0.0	0.0	3.9	15.4	30.8	46.2	73.1	100.0	123.0	65.3
85°	0.0	0.0	0.0	3.9	23.0	42.3	53.8	19.3	11.5	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°	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8
2.5°	8268.5	8168.5	8129.9	8164.6	8153.1	8141.6	8353.1	8306.9	8299.2	8368.5	8353.1
5°	6207.1	6030.2	6514.7	6318.6	6522.5	6645.5	6668.5	6680.1	6822.4	6672.4	6868.5
7.5°	4422.7	4468.8	4465.0	4595.7	4830.3	5038.0	5161.0	5064.9	5057.2	5038.0	4953.3
10°	3534.3	3453.5	3438.1	3407.4	3480.4	3657.3	3807.3	3688.1	3603.5	3718.9	3684.3
12.5°	2888.2	2776.6	2715.1	2592.0	2595.9	2715.1	2715.1	2715.1	2799.7	2865.1	2915.1
15°	2215.2	2122.9	2122.9	1999.8	1972.9	1976.8	2038.2	2046.0	2180.5	2219.0	2238.2
17.5°	1549.9	1499.8	1557.5	1607.6	1576.8	1584.4	1607.6	1615.2	1634.5	1619.1	1657.5
20°	1192.2	1184.5	1199.9	1288.3	1353.7	1392.2	1365.3	1326.8	1303.7	1249.9	1249.9
22.5°	1011.5	1026.9	1053.8	1126.8	1211.5	1234.5	1203.7	1115.3	1046.0	1038.4	1042.2
25°	900.0	915.3	957.6	1003.7	1049.9	1088.3	1057.6	992.2	953.8	919.1	919.1
27.5°	830.7	838.4	861.4	896.1	934.5	965.3	953.8	919.1	876.8	861.4	826.9
30°	776.8	788.4	815.3	823.0	857.6	873.0	853.8	846.0	819.1	800.0	788.4
32.5°	749.9	746.1	765.3	773.0	776.8	788.4	765.3	776.8	773.0	742.3	730.7
35°	565.3	596.1	646.1	688.4	700.0	715.4	711.5	696.1	653.8	619.1	576.8
37.5°	507.6	526.9	553.8	588.4	634.5	653.8	646.1	607.6	557.7	534.5	526.9
40°	469.2	480.7	503.8	526.9	573.1	607.6	580.7	546.1	507.6	488.5	476.8
42.5°	434.5	438.4	449.9	473.1	507.6	561.5	515.4	469.2	453.8	442.3	434.5
45°	396.1	396.1	411.5	423.0	461.5	511.5	465.3	423.0	415.4	407.6	403.8
47.5°	365.3	369.2	376.9	392.2	423.0	457.7	426.9	392.2	373.1	369.2	361.5
50°	326.9	330.8	346.2	361.5	400.0	419.2	400.0	361.5	342.3	330.8	330.8
52°	296.1	307.6	323.0	353.8	380.7	411.5	388.5	346.2	323.0	311.5	303.9
52.5°	292.2	300.0	315.4	349.9	380.7	407.6	384.6	342.3	315.4	307.6	300.0
55°	261.6	273.1	300.0	342.3	376.9	407.6	376.9	338.4	300.0	280.7	273.1
57.5°	249.9	257.7	292.2	346.2	373.1	407.6	376.9	338.4	300.0	265.3	257.7
60°	238.4	253.8	292.2	334.5	369.2	411.5	380.7	334.5	292.2	249.9	249.9
62.5°	226.9	238.4	288.5	326.9	353.8	396.1	365.3	326.9	280.7	238.4	234.6
65°	196.1	215.4	253.8	273.1	303.9	342.3	311.5	284.6	246.2	211.5	207.6
67.5°	150.0	157.7	188.5	211.5	230.8	265.3	249.9	215.4	188.5	161.6	161.6
70°	103.9	111.5	134.6	146.2	165.3	184.6	173.1	146.2	126.9	111.5	107.6
72.5°	73.1	77.0	84.6	92.3	100.0	107.6	103.9	84.6	73.1	69.2	65.3
75°	57.7	65.3	69.2	65.3	61.6	57.7	57.7	50.0	42.3	38.4	38.4
77.5°	57.7	61.6	57.7	50.0	42.3	38.4	34.6	30.8	23.0	19.3	23.0
80°	50.0	50.0	50.0	42.3	38.4	34.6	30.8	26.9	23.0	19.3	19.3
82.5°	53.8	53.8	50.0	42.3	42.3	34.6	34.6	30.8	26.9	19.3	19.3
85°	0.0	0.0	0.0	7.7	19.3	34.6	34.6	30.8	26.9	23.0	23.0
87.5°	0.0	0.0	0.0	0.0	3.9	7.7	15.4	19.3	23.0	23.0	23.0
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°	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8
2.5°	8491.5	8637.7	8914.5	9191.4	9360.7	9560.6	9922.1	10114.4	10364.4	10487.4	10729.7
5°	6841.6	7187.8	7310.8	7626.2	7964.6	8303.0	8841.4	9433.7	9926.0	10264.4	10702.8
7.5°	4991.8	5072.6	5549.4	5761.0	6314.7	6930.1	7664.6	8410.8	9033.8	9587.6	9922.1
10°	3741.9	4038.1	4338.0	4741.8	5188.0	5822.5	6526.3	7349.2	8156.9	8710.7	9133.8
12.5°	3007.4	3242.0	3642.0	4076.5	4626.5	5045.7	5753.3	6568.6	7614.7	8156.9	8714.5
15°	2276.7	2576.7	3030.5	3480.4	4061.1	4503.4	5218.7	6245.5	7591.5	8337.7	8818.4
17.5°	1688.3	1892.1	2299.8	2803.6	3395.8	4018.8	4984.1	6211.0	7849.2	8737.6	9233.7
20°	1292.2	1361.4	1619.1	2069.0	2711.3	3526.6	4603.4	6360.9	8610.7	9710.6	10214.4
22.5°	1046.0	1076.8	1176.8	1488.3	2111.3	3095.9	4422.7	6464.8	9468.3	10875.9	11548.9
25°	911.5	903.7	969.2	1103.7	1649.9	2692.0	4191.9	6857.0	10518.2	12245.0	12848.7
27.5°	830.7	830.7	861.4	957.6	1369.1	2430.6	4045.8	7137.7	11575.8	13448.7	13775.6
30°	788.4	796.1	884.6	915.3	1138.4	2119.0	3803.5	7422.3	12587.2	14217.9	14667.8
32.5°	730.7	700.0	680.7	757.7	957.6	1838.3	3561.2	7541.6	13406.4	15160.0	15544.6
35°	561.5	546.1	569.2	626.9	823.0	1599.8	3292.0	7676.1	14348.6	16252.2	16329.2
37.5°	507.6	503.8	519.1	569.2	692.2	1392.2	3099.7	7641.6	15067.8	17156.0	16948.3
40°	469.2	469.2	480.7	523.0	619.1	1246.0	2899.7	7610.8	15763.9	18171.3	17563.7
42.5°	438.4	438.4	457.7	484.6	588.4	1149.9	2749.7	7568.5	16348.4	18794.3	17925.2
45°	396.1	407.6	438.4	465.3	596.1	1084.5	2638.2	7406.9	16548.4	18786.6	17752.1
47.5°	365.3	380.7	411.5	449.9	538.4	1065.3	2561.3	7264.6	16479.1	18325.1	17209.9
50°	330.8	349.9	392.2	457.7	457.7	1026.9	2480.5	7391.5	16429.2	17967.5	16690.7
52°	307.6	323.0	376.9	446.2	400.0	946.0	2430.6	7637.7	16633.0	17921.3	16460.0
52.5°	303.9	315.4	365.3	438.4	380.7	930.7	2395.9	7695.4	16698.4	17806.0	16617.6
55°	269.2	284.6	334.5	342.3	311.5	765.3	2284.4	7826.2	16375.4	17579.1	16467.6
57.5°	253.8	261.6	296.1	280.7	269.2	576.8	1965.2	7622.3	14544.8	15613.8	15321.6
60°	234.6	242.3	276.9	219.2	226.9	403.8	1476.8	6618.6	11679.6	13010.3	13537.2
62.5°	226.9	223.0	261.6	176.9	192.3	292.2	1042.2	5380.2	8999.1	10710.5	11621.9
65°	200.0	196.1	188.5	150.0	165.3	226.9	623.0	3511.2	6341.7	8103.0	8603.0
67.5°	153.8	161.6	138.4	119.3	138.4	176.9	346.2	1572.9	3326.6	4861.1	5264.9
70°	107.6	115.4	111.5	103.9	123.0	146.2	200.0	538.4	1376.8	2553.6	2815.1
72.5°	65.3	80.7	84.6	88.5	107.6	126.9	142.3	173.1	365.3	903.7	1123.0
75°	38.4	53.8	65.3	77.0	88.5	107.6	119.3	123.0	126.9	169.2	273.1
77.5°	26.9	38.4	57.7	73.1	88.5	107.6	126.9	134.6	126.9	119.3	126.9
80°	23.0	38.4	53.8	69.2	92.3	111.5	126.9	126.9	123.0	107.6	115.4
82.5°	23.0	38.4	57.7	73.1	88.5	107.6	123.0	126.9	115.4	107.6	111.5
85°	26.9	42.3	61.6	77.0	96.1	88.5	80.7	65.3	61.6	50.0	53.8
87.5°	26.9	38.4	38.4	42.3	46.2	46.2	46.2	42.3	34.6	30.8	30.8
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: P650968

CATALOG NUMBER: GALN-SA6C-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8	9829.8
2.5°	10741.3	11048.9	11037.4	11045.1	10998.9	10687.4	10537.4	10156.7	10264.4	10218.2
5°	11152.8	11456.6	11718.1	11687.3	11333.5	10910.5	10283.6	9691.3	9529.9	9291.4
7.5°	10741.3	11472.0	11714.2	11679.6	11156.6	10614.3	9614.5	9022.2	8741.4	8583.8
10°	10087.5	10933.6	11233.5	11295.1	10941.2	10118.2	9199.1	8249.2	8099.3	7826.2
12.5°	9714.5	10329.8	10514.4	10679.7	10556.7	9941.4	8883.7	7972.3	7764.6	7583.9
15°	9410.6	9776.0	9852.9	10041.3	10114.4	9783.7	9049.1	8272.2	7760.7	7741.6
17.5°	9691.3	9541.4	9260.7	9318.4	9549.1	9787.5	9476.0	8864.6	8368.5	8306.9
20°	10156.7	9495.2	8860.7	9003.0	9195.2	9926.0	10122.1	9691.3	9406.8	9249.1
22.5°	10691.3	9576.0	8733.8	8803.0	9168.3	10237.5	11168.1	10929.7	10399.0	10172.1
25°	11679.6	9799.1	8833.8	8879.9	9379.8	10672.0	12114.2	12291.1	11975.8	11929.6
27.5°	12644.9	10375.9	9052.9	8949.2	9487.6	11095.1	12687.2	13637.2	13083.4	12975.6
30°	13137.2	10845.1	9379.8	9203.0	9933.6	11352.7	13033.3	14514.0	14029.4	13979.4
32.5°	13891.0	11272.0	9633.7	9406.8	10183.6	11671.9	13679.5	15471.5	15002.3	14752.4
35°	14206.3	11737.3	10191.3	9926.0	10898.9	12118.1	14010.1	16325.3	16179.2	15936.9
37.5°	14814.0	12237.3	10849.0	10833.6	11764.2	12698.8	14606.2	17486.7	17459.8	17040.7
40°	14863.9	12783.4	11887.3	12371.9	13102.5	13710.2	15129.3	17809.8	18248.2	17963.6
42.5°	14940.9	13740.9	13683.3	14083.2	14710.1	14579.3	15148.5	17886.7	18555.9	18386.7
45°	14975.4	14698.6	15510.1	16248.5	16509.9	15717.7	14967.8	17740.6	18717.4	18294.4
47.5°	14698.6	15521.6	16986.8	18413.6	18490.5	16417.7	14890.8	17590.6	18813.6	18532.8
50°	14737.0	16036.9	18263.6	19540.4	19259.7	17036.8	14771.7	17498.3	18763.6	18575.1
52°	14644.8	16048.5	18444.4	19517.3	19321.2	16694.5	14567.8	17144.5	18717.4	18852.0
52.5°	14748.5	15979.3	18255.9	19532.7	19278.9	16863.7	14540.9	17340.6	18744.3	18471.3
55°	14390.9	15156.2	17152.2	17694.4	17656.0	15306.2	13714.0	16690.7	18040.5	18044.4
57.5°	13006.4	13137.2	13452.6	13441.0	13264.1	12033.4	11729.6	15348.5	16083.0	15683.1
60°	11460.4	9618.3	8768.4	8422.3	8226.2	8026.2	10375.9	14040.9	14110.1	13940.9
62.5°	9902.9	6668.5	5537.9	5441.8	5487.9	6218.6	10029.8	13521.8	13106.4	12741.1
65°	7991.5	4861.1	4022.7	3895.8	4345.7	5134.1	8118.4	10368.2	9729.8	9426.0
67.5°	5018.8	3545.8	2719.0	2480.5	3022.8	3534.3	5334.1	6514.7	5799.5	5380.2
70°	2976.6	1980.6	1230.6	1103.7	1242.2	1884.4	2988.2	3249.7	2688.2	2472.9
72.5°	1172.9	726.9	342.3	292.2	303.9	661.4	1099.9	1072.9	811.5	723.0
75°	315.4	219.2	119.3	96.1	80.7	123.0	176.9	115.4	42.3	53.8
77.5°	146.2	130.8	103.9	80.7	61.6	46.2	23.0	7.7	7.7	3.9
80°	126.9	111.5	96.1	80.7	61.6	38.4	19.3	3.9	3.9	3.9
82.5°	119.3	103.9	88.5	73.1	57.7	38.4	19.3	3.9	0.0	0.0
85°	50.0	65.3	73.1	69.2	61.6	38.4	19.3	3.9	0.0	0.0
87.5°	26.9	23.0	19.3	15.4	11.5	7.7	7.7	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

(END OF REPORT)