

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: P646785

Luminaire Tested: **GALN-SA2C-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8245 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

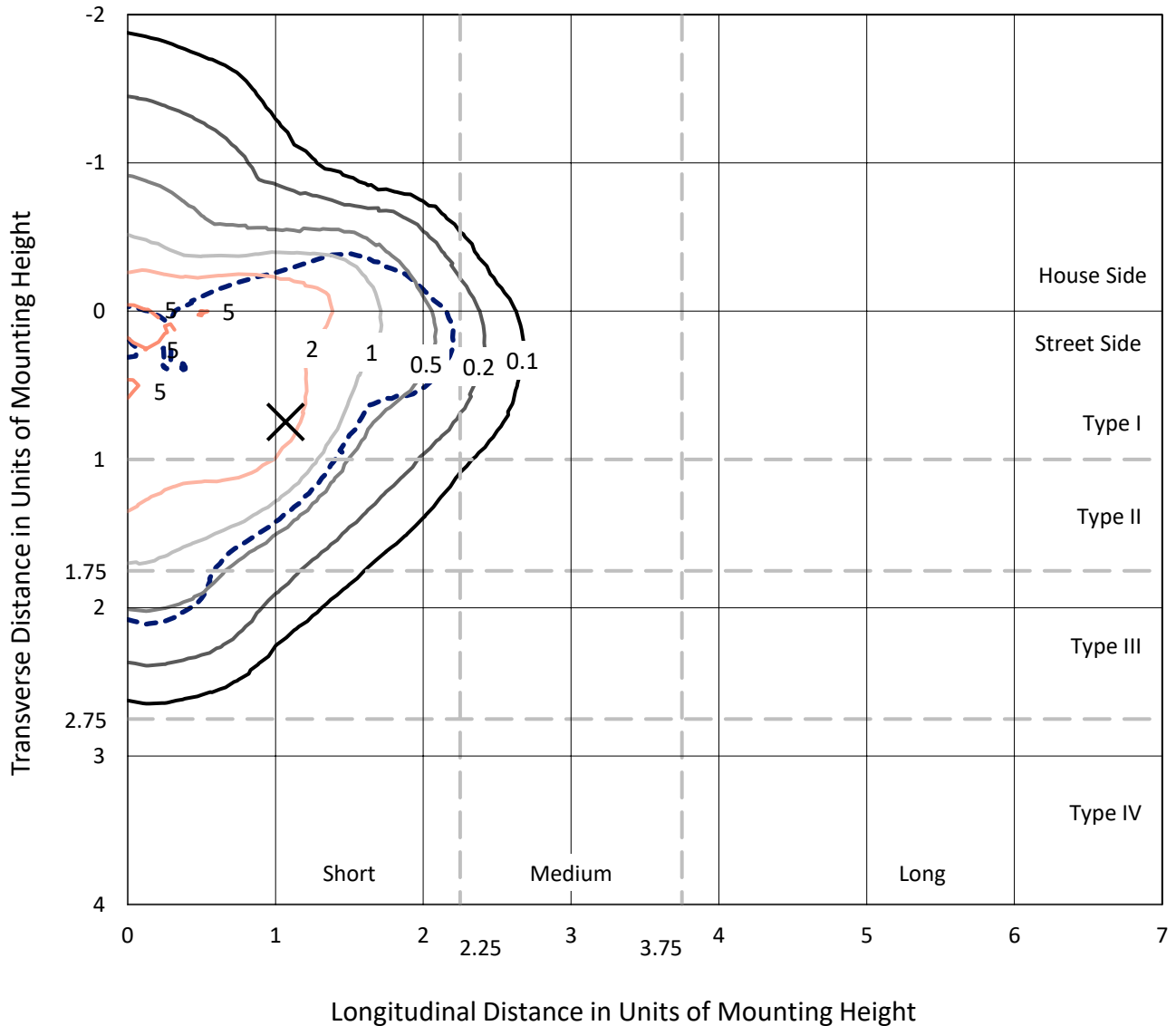
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

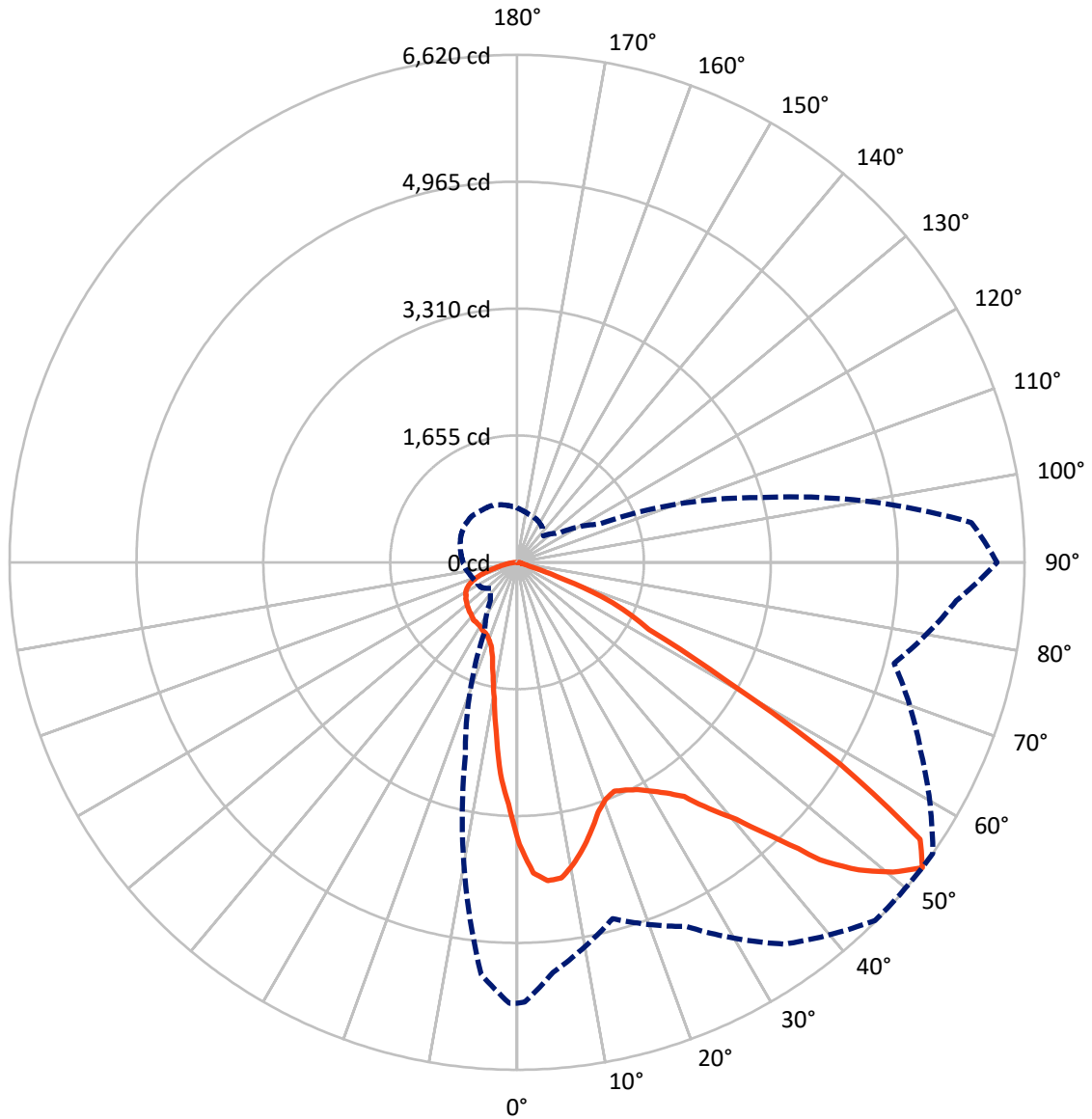
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2515.2	0.0	2515.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5729.8	0.0	5729.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	8245.0	0.0	8245.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	3.4
10°-20°	605.8	7.3
20°-30°	918.7	11.1
30°-40°	1327.3	16.1
40°-50°	1773.6	21.5
50°-60°	1979.8	24.0
60°-70°	1086.0	13.2
70°-80°	234.8	2.8
80°-90°	38.0	0.5
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°	8245.0	100.0
0°-180°	8245.0	100.0

Coefficient of Utilization



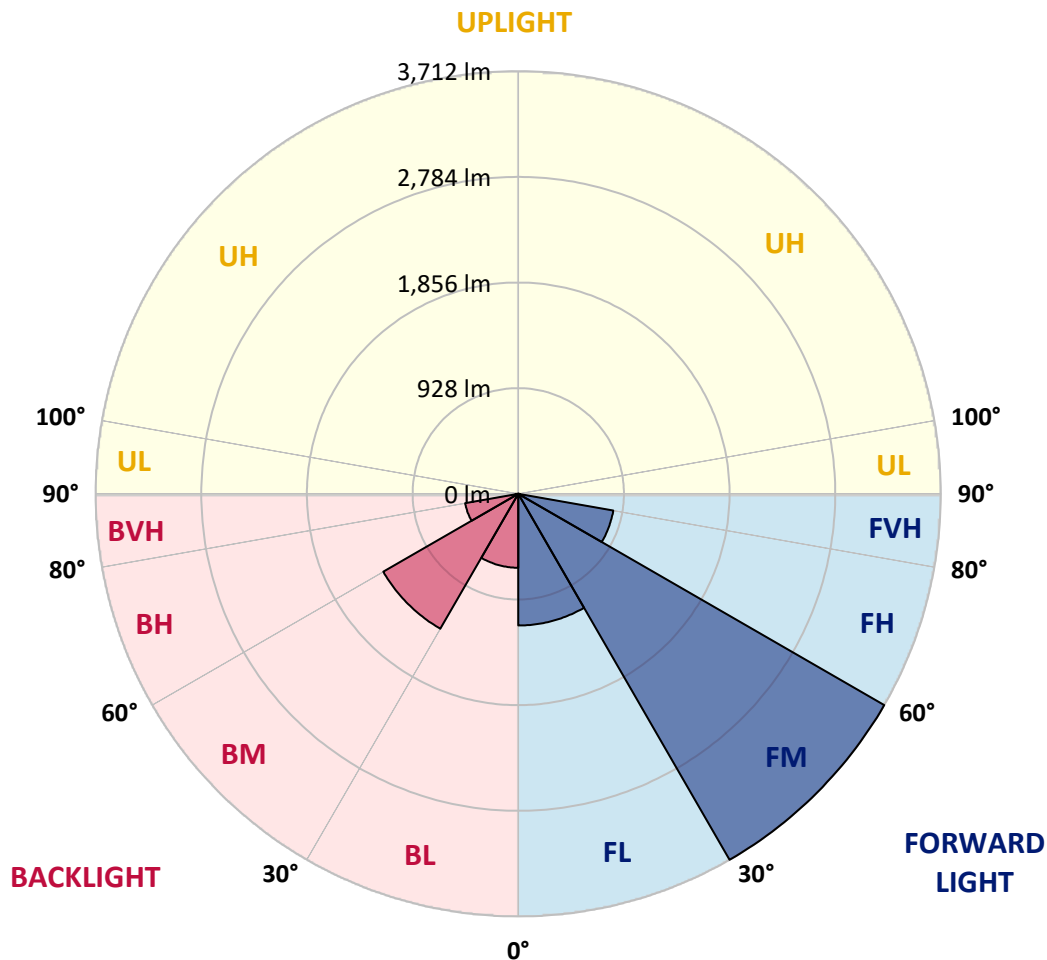
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.1	14.0			
FM (30°-60°)	3712.3	45.0			
FH (60°-80°)	847.4	10.3			G1/1800
FVH (80°-90°)	14.1	0.2			G1/100
BL (0°-30°)	649.4	7.9	B2/1000		
BM (30°-60°)	1368.5	16.6	B2/2500		
BH (60°-80°)	473.4	5.7	B1/500		G1/500
BVH (80°-90°)	23.9	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9
2.5°	3859.7	3838.0	3857.3	3948.7	4001.8	4037.9	4060.7	4057.1	3970.4	3886.2	3886.2
5°	3746.5	3718.9	3758.6	3965.7	4173.9	4191.9	4222.1	4172.7	4045.1	3891.0	3698.3
7.5°	3419.0	3439.6	3505.7	3777.8	4048.7	4184.7	4220.8	4158.3	3951.2	3663.4	3380.5
10°	3136.1	3184.3	3337.2	3630.9	3880.2	4057.1	4096.9	4009.0	3845.2	3492.5	3239.7
12.5°	3038.7	3008.5	3178.3	3472.1	3710.4	3805.5	3823.5	3829.6	3718.9	3405.8	3097.6
15°	3026.6	3045.9	3178.3	3401.0	3547.9	3552.7	3582.8	3629.8	3644.2	3464.8	3163.9
17.5°	3200.0	3177.1	3313.1	3490.1	3420.3	3350.5	3357.7	3425.1	3544.2	3515.4	3372.1
20°	3456.4	3508.2	3615.3	3597.3	3409.4	3232.5	3233.6	3297.4	3532.3	3724.9	3662.2
22.5°	3882.6	3933.2	4012.6	3794.7	3409.4	3197.5	3156.6	3243.3	3609.3	3974.0	3989.7
25°	4271.4	4364.1	4385.8	4129.4	3580.4	3230.0	3203.6	3289.1	3686.4	4217.2	4365.3
27.5°	4625.3	4659.1	4754.2	4344.9	3675.5	3251.7	3249.3	3358.8	3783.8	4338.8	4701.2
30°	4904.7	4901.0	4955.2	4480.9	3827.1	3373.3	3256.6	3463.6	3911.5	4539.9	5011.8
32.5°	5094.9	5135.9	5250.2	4669.9	3891.0	3488.9	3397.4	3586.4	4066.7	4635.0	5230.9
35°	5429.6	5500.6	5356.1	4774.7	4093.2	3603.3	3496.1	3753.8	4143.8	4738.6	5499.4
37.5°	5745.0	5690.8	5544.0	4831.3	4224.4	3815.2	3715.3	4077.6	4383.4	4963.7	5677.6
40°	5947.3	5946.0	5684.8	4877.0	4317.1	4139.0	4133.0	4406.3	4677.2	5105.7	5877.4
42.5°	6035.1	6119.4	5742.6	4872.1	4512.2	4531.5	4653.1	4897.4	4885.5	5134.6	5872.6
44°	6155.6	6206.1	5842.5	4883.0	4642.3	4796.3	5082.8	5238.2	5067.2	5118.9	5866.5
45°	6150.7	6154.3	5700.5	4897.4	4753.0	5017.9	5274.3	5536.7	5227.3	5085.3	5946.0
47.5°	6009.8	5968.9	5580.0	4790.3	5098.5	5602.9	5840.1	5999.0	5424.8	5013.0	5847.3
50°	5731.7	5684.8	5287.5	4744.6	5170.7	5966.5	6294.0	6351.8	5604.2	4942.0	5749.8
52.5°	5751.0	5737.7	5370.6	4813.2	5243.0	6080.9	6605.8	6620.3	5807.6	5091.3	5751.0
55°	6095.3	6049.6	5608.9	4898.7	5190.0	5947.3	6407.1	6381.8	5739.0	5001.0	5856.9
57.5°	5577.6	5607.8	5279.1	4560.3	4542.3	4834.9	5037.1	4974.5	4789.1	4513.4	5448.8
60°	4500.1	4585.6	4617.0	3813.9	3427.5	3277.0	3216.8	3106.1	3137.3	3708.0	4786.7
62.5°	3859.7	3854.9	4051.1	3457.6	2245.3	1931.0	1902.1	1927.4	2288.6	3650.2	4688.0
65°	3060.3	3142.2	3202.4	2930.3	1776.9	1433.8	1432.7	1592.8	1980.4	3050.6	3785.0
67.5°	1943.1	2050.2	2124.9	1874.5	1188.3	1020.9	993.2	1185.9	1372.4	2000.9	2279.0
70°	1095.6	1146.1	1179.8	1081.1	756.1	529.7	498.4	544.2	829.5	1295.4	1350.8
72.5°	422.6	445.4	491.2	494.8	285.3	170.9	138.4	166.2	349.1	512.9	488.7
75°	65.0	69.8	98.7	118.0	81.9	62.6	66.2	68.6	97.5	132.4	110.8
77.5°	31.3	31.3	30.1	34.9	41.0	44.6	48.2	53.0	57.8	63.8	61.4
80°	20.4	20.4	20.4	24.1	30.1	36.1	41.0	43.4	45.7	50.6	48.2
82.5°	13.2	13.2	13.2	18.1	24.1	30.1	32.5	38.5	43.4	50.6	47.0
85°	7.2	7.2	7.2	12.1	18.1	25.3	24.1	19.3	10.8	1.2	2.4
87.5°	2.4	2.4	2.4	2.4	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°	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9
2.5°	3785.0	3729.7	3724.9	3611.7	3510.6	3461.2	3421.5	3310.7	3334.8	3271.0	3269.8
5°	3602.0	3488.9	3305.9	3155.4	3004.9	2974.9	2843.6	2729.2	2732.8	2651.0	2665.4
7.5°	3273.4	3195.1	2972.4	2736.4	2536.6	2394.6	2270.5	2195.9	2100.8	2068.3	2051.5
10°	3065.1	2968.8	2718.4	2422.2	2198.4	2122.5	2003.3	1937.1	1839.6	1791.4	1757.7
12.5°	2973.6	2832.7	2519.8	2218.8	2069.5	1991.2	1890.1	1769.7	1654.2	1609.6	1548.2
15°	2983.2	2814.7	2462.0	2136.9	1957.5	1805.8	1715.6	1581.9	1464.0	1385.7	1341.1
17.5°	3128.9	2924.3	2488.5	2074.3	1816.7	1626.4	1449.5	1305.0	1211.1	1152.1	1137.7
20°	3473.2	3195.1	2533.0	1973.2	1675.9	1438.7	1220.8	1070.3	998.0	996.8	998.0
22.5°	3759.7	3484.1	2623.3	1913.0	1535.0	1197.9	981.2	933.0	918.5	948.7	952.3
25°	4146.2	3809.1	2778.6	1881.7	1404.9	1020.9	887.3	869.2	868.0	906.6	907.7
27.5°	4542.3	4093.2	2871.3	1790.2	1272.5	929.4	830.7	827.1	846.3	887.3	883.7
30°	4812.0	4331.6	3038.7	1680.6	1116.0	848.8	807.8	812.6	839.1	870.4	875.2
32.5°	5126.2	4566.4	3082.0	1620.4	1019.7	781.4	752.5	763.3	797.0	846.3	872.8
35°	5486.2	4732.5	3148.2	1538.6	983.6	729.6	715.1	727.2	768.1	800.6	829.5
37.5°	5752.2	5026.2	3160.3	1474.8	943.8	700.7	677.8	717.5	741.6	787.4	801.8
40°	5949.6	5239.4	3191.5	1435.1	912.6	663.4	663.4	689.8	722.3	764.4	793.3
42.5°	6076.1	5394.6	3214.4	1398.9	852.4	652.5	646.5	673.0	716.3	757.2	770.5
44°	6153.1	5460.9	3191.5	1365.2	835.5	639.2	639.2	662.1	695.9	744.0	759.7
45°	6172.4	5544.0	3141.0	1364.0	815.0	623.6	621.2	664.5	687.4	746.4	756.1
47.5°	6247.0	5646.3	3147.0	1325.5	765.7	586.3	628.4	647.7	668.1	720.0	752.5
50°	6244.6	5710.1	3133.7	1268.9	729.6	544.2	614.0	635.6	656.2	709.1	722.3
52.5°	6261.5	5948.5	3255.3	1178.6	664.5	490.0	565.8	614.0	639.2	683.8	711.5
55°	6253.0	6084.5	3375.7	1111.2	573.1	457.5	524.9	581.5	617.6	664.5	677.8
57.5°	5711.3	5377.8	3124.1	984.8	474.3	419.0	467.1	547.8	593.5	641.7	658.5
60°	4666.3	4145.0	2576.3	724.7	390.1	385.2	434.6	536.9	556.2	598.4	627.3
62.5°	4312.4	3635.8	2043.0	553.8	333.5	352.7	400.9	485.1	515.3	567.0	593.5
65°	3374.5	2415.0	1265.3	374.4	293.8	316.6	362.4	425.0	474.3	522.5	553.8
67.5°	1998.5	1319.4	626.0	262.5	256.4	280.5	327.5	374.4	431.0	484.0	499.6
70°	1088.3	648.9	267.2	199.8	217.9	239.6	285.3	317.8	372.0	413.0	439.4
72.5°	349.1	197.5	133.7	148.1	166.2	191.4	219.1	258.9	297.4	321.4	343.1
75°	84.3	83.1	95.1	103.5	120.4	139.7	162.6	183.0	213.1	236.0	255.3
77.5°	59.0	63.8	73.4	85.5	91.5	98.7	113.1	128.8	142.0	158.9	170.9
80°	45.7	49.3	56.6	62.6	68.6	74.6	81.9	87.9	96.3	107.1	113.1
82.5°	43.4	45.7	53.0	56.6	54.2	53.0	57.8	60.2	61.4	65.0	68.6
85°	3.6	0.0	2.4	8.5	20.4	30.1	32.5	32.5	31.3	33.7	33.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.9	3.6
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°	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9
2.5°	3255.3	3214.4	3230.0	3249.3	3221.7	3157.8	3174.7	3167.5	3232.5	3227.7	3292.7
5°	2729.2	2665.4	2672.6	2766.6	2736.4	2768.9	2703.9	2695.6	2707.5	2713.6	2724.4
7.5°	2088.7	2080.4	2152.5	2232.0	2269.4	2230.8	2167.0	2152.5	2139.3	2112.8	2173.1
10°	1704.7	1707.1	1702.3	1762.5	1804.7	1796.2	1757.7	1752.9	1727.6	1718.0	1751.6
12.5°	1521.8	1489.2	1473.6	1454.3	1486.8	1508.4	1491.6	1479.6	1480.8	1492.9	1497.6
15°	1344.7	1324.3	1290.5	1268.9	1284.6	1273.7	1267.7	1291.8	1285.8	1283.3	1312.2
17.5°	1146.1	1163.0	1160.6	1136.4	1157.0	1148.5	1147.3	1130.5	1107.6	1090.7	1100.3
20°	1014.8	1046.2	1070.3	1071.5	1082.3	1081.1	1063.1	1011.2	994.4	990.8	993.2
22.5°	967.9	984.8	1013.7	1054.6	1054.6	1035.4	1013.7	953.5	937.8	921.0	913.8
25°	930.6	963.1	1000.4	1005.2	1024.5	1006.5	971.5	941.5	908.9	886.0	886.0
27.5°	911.3	947.4	975.1	983.6	1010.1	995.6	959.5	921.0	882.4	881.3	860.8
30°	903.0	936.6	954.7	975.1	987.2	964.3	953.5	912.6	874.1	864.4	830.7
32.5°	877.7	925.8	959.5	954.7	964.3	954.7	939.1	905.3	862.0	840.3	836.7
35°	848.8	896.9	933.0	958.3	964.3	943.8	934.2	888.5	829.5	818.6	781.4
37.5°	833.1	862.0	906.6	947.4	955.9	945.1	912.6	865.6	806.6	794.6	762.1
40°	813.9	851.1	886.0	919.8	945.1	918.5	881.3	835.5	809.0	772.9	763.3
42.5°	799.4	841.5	870.4	907.7	936.6	901.7	858.4	827.1	789.7	765.7	738.0
44°	794.6	833.1	852.4	898.1	922.2	895.7	859.6	827.1	783.7	762.1	738.0
45°	777.8	830.7	851.1	892.1	912.6	890.9	845.2	812.6	781.4	754.8	729.6
47.5°	760.8	797.0	831.9	864.4	878.8	871.6	833.1	793.3	756.1	740.4	716.3
50°	756.1	792.2	824.7	854.8	871.6	857.2	822.2	783.7	740.4	715.1	694.7
52.5°	731.9	776.5	812.6	822.2	843.9	835.5	809.0	766.9	725.9	704.3	687.4
55°	697.0	744.0	793.3	805.4	836.7	823.5	783.7	744.0	709.1	676.6	654.9
57.5°	683.8	729.6	777.8	793.3	812.6	791.0	781.4	739.2	683.8	667.0	633.2
60°	650.1	707.9	747.6	783.7	785.0	778.9	762.1	713.9	668.1	636.9	612.8
62.5°	623.6	677.8	709.1	742.8	763.3	746.4	729.6	685.0	635.6	600.7	573.1
65°	585.1	634.5	660.9	681.4	704.3	701.9	673.0	640.5	588.7	561.0	534.6
67.5°	526.1	569.5	605.6	624.8	639.2	635.6	614.0	591.1	538.2	510.4	491.2
70°	455.1	499.6	522.5	533.3	547.8	555.0	538.2	527.3	480.4	444.3	426.2
72.5°	366.0	394.9	428.6	438.2	444.3	449.1	449.1	439.4	391.3	376.9	345.5
75°	269.7	292.5	317.8	317.8	328.6	329.9	332.3	326.3	290.1	270.8	263.6
77.5°	183.0	199.8	220.3	228.7	236.0	234.7	233.6	216.7	197.5	189.0	181.8
80°	119.2	136.0	145.6	156.5	163.7	162.6	164.9	152.9	144.5	130.1	132.4
82.5°	71.0	84.3	93.9	107.1	107.1	110.8	110.8	107.1	98.7	91.5	91.5
85°	33.7	44.6	50.6	59.0	63.8	65.0	57.8	49.3	41.0	37.3	41.0
87.5°	6.0	8.5	12.1	10.8	13.2	12.1	12.1	12.1	12.1	9.6	10.8
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: P646785

CATALOG NUMBER: GALN-SA2C-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9	3677.9
2.5°	3268.6	3328.8	3370.9	3440.7	3561.2	3657.5	3756.1	3829.6	3838.0	3859.7
5°	2764.1	2796.6	2903.8	3043.4	3142.2	3304.7	3409.4	3599.7	3670.7	3746.5
7.5°	2158.6	2211.6	2354.8	2448.8	2665.4	2868.9	3079.5	3314.4	3408.2	3419.0
10°	1820.3	1897.4	1994.8	2145.3	2263.3	2489.6	2752.1	3013.4	3118.1	3136.1
12.5°	1598.8	1697.5	1827.5	1935.9	2049.0	2246.5	2498.1	2820.8	2956.8	3038.7
15°	1385.7	1488.0	1631.3	1781.8	1881.7	2117.6	2413.8	2777.4	2954.3	3026.6
17.5°	1166.6	1261.6	1379.6	1542.2	1743.3	2008.1	2400.6	2921.8	3115.7	3200.0
20°	978.8	1031.8	1169.0	1336.3	1587.9	1896.1	2405.4	3135.0	3419.0	3456.4
22.5°	905.3	917.4	971.5	1125.6	1401.3	1781.8	2490.9	3437.1	3759.7	3882.6
25°	848.8	846.3	860.8	964.3	1265.3	1737.2	2575.1	3715.3	4137.8	4271.4
27.5°	817.5	793.3	794.6	892.1	1169.0	1665.0	2683.5	4034.3	4566.4	4625.3
30°	801.8	797.0	782.5	822.2	1064.3	1556.6	2701.5	4348.5	4819.2	4904.7
32.5°	792.2	745.2	727.2	741.6	965.5	1438.7	2768.9	4555.6	5132.2	5094.9
35°	744.0	701.9	689.8	704.3	895.7	1372.4	2724.4	4736.1	5367.0	5429.6
37.5°	725.9	688.6	664.5	652.5	830.7	1317.1	2701.5	5014.3	5594.5	5745.0
40°	709.1	669.4	640.5	628.4	780.1	1243.6	2694.3	5228.6	5856.9	5947.3
42.5°	689.8	664.5	632.0	610.3	718.7	1170.2	2611.2	5294.7	5937.6	6035.1
44°	683.8	645.3	611.6	604.3	694.7	1132.8	2594.4	5354.9	6007.4	6155.6
45°	677.8	641.7	603.1	593.5	686.2	1112.4	2571.5	5369.3	6123.0	6150.7
47.5°	660.9	638.1	600.7	574.3	668.1	1067.9	2502.9	5287.5	6005.1	6009.8
50°	647.7	621.2	582.7	531.0	644.1	1030.5	2534.2	5257.5	5720.9	5731.7
52.5°	633.2	593.5	571.8	482.8	604.3	999.3	2600.4	5393.5	5753.4	5751.0
55°	616.4	573.1	520.1	441.8	538.2	959.5	2760.5	5662.0	6054.4	6095.3
57.5°	589.9	552.6	476.8	405.8	462.3	883.7	2708.8	5147.8	5570.4	5577.6
60°	555.0	520.1	432.2	378.0	379.2	697.0	2422.2	4011.4	4395.4	4500.1
62.5°	521.3	502.1	394.9	338.3	322.7	555.0	2047.9	3333.6	3773.0	3859.7
65°	481.5	434.6	362.4	308.2	276.9	388.8	1450.7	2490.9	2943.5	3060.3
67.5°	431.0	380.5	319.0	270.8	237.2	260.0	748.9	1415.8	1874.5	1943.1
70°	376.9	329.9	268.5	228.7	191.4	179.4	329.9	675.4	1024.5	1095.6
72.5°	309.4	266.1	214.3	180.6	143.3	124.0	110.8	180.6	363.5	422.6
75°	223.9	193.8	161.3	128.8	101.2	79.5	65.0	54.2	60.2	65.0
77.5°	164.9	140.9	119.2	91.5	71.0	56.6	44.6	33.7	32.5	31.3
80°	128.8	114.4	95.1	73.4	55.4	42.1	31.3	22.9	20.4	20.4
82.5°	101.2	93.9	78.2	60.2	45.7	33.7	22.9	15.7	13.2	13.2
85°	38.5	38.5	56.6	49.3	34.9	24.1	15.7	8.5	7.2	7.2
87.5°	9.6	9.6	9.6	9.6	8.5	7.2	7.2	3.6	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)