

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: P534088

Luminaire Tested: **GALN-SA9C-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47467 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

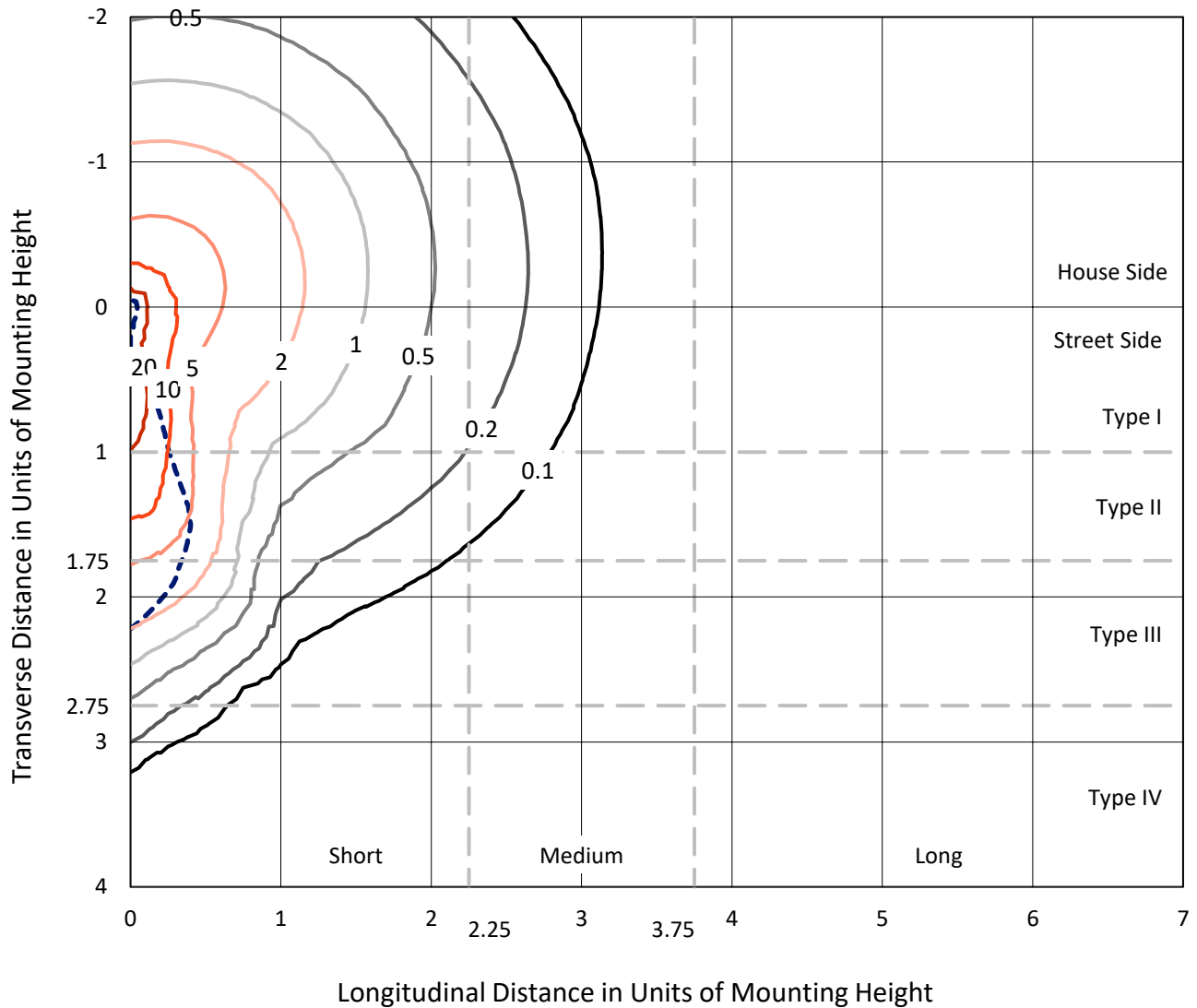
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

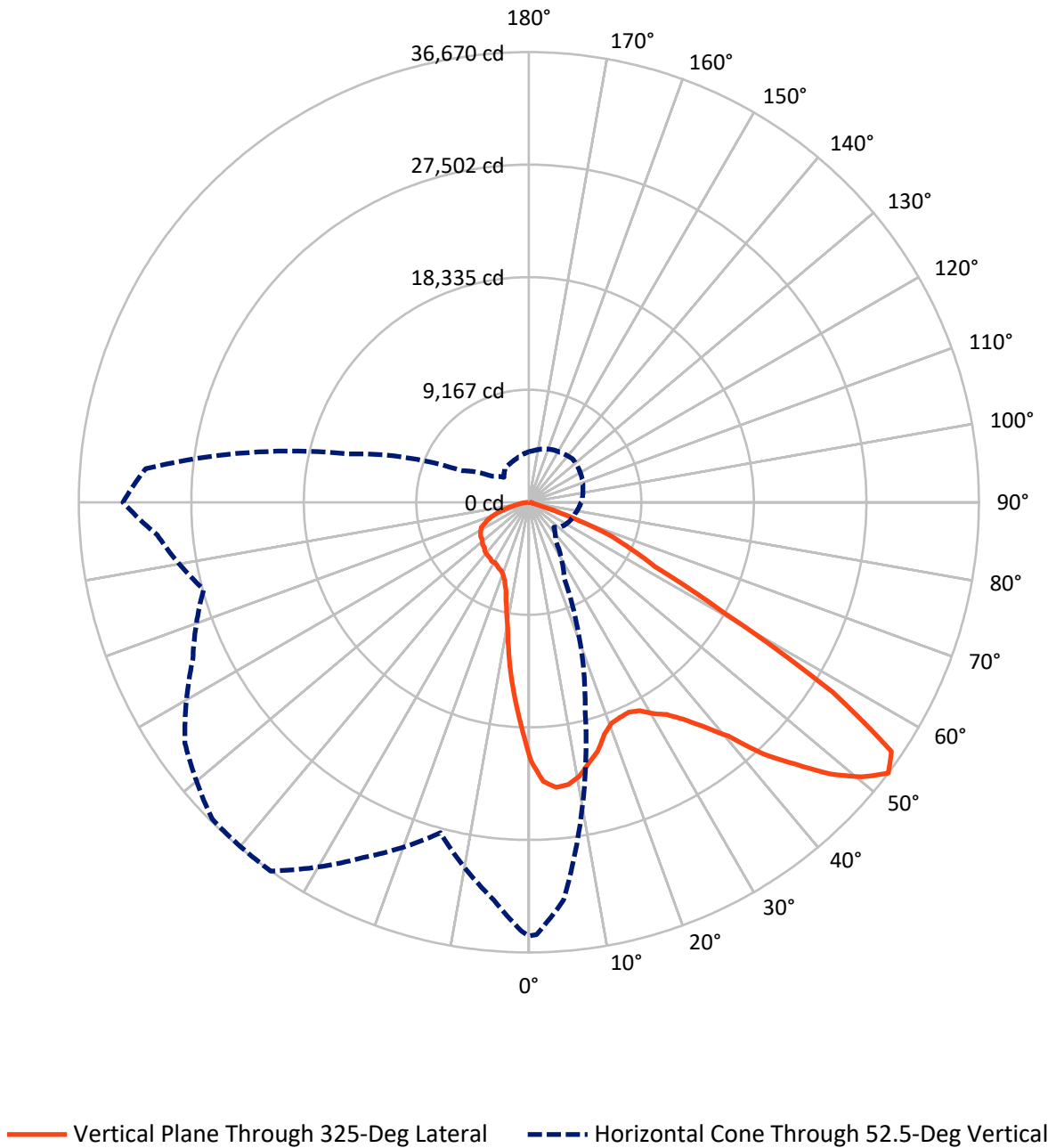
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.7 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA9C-740-U-SLR-GRSWH

Luminous Intensity Polar Plot





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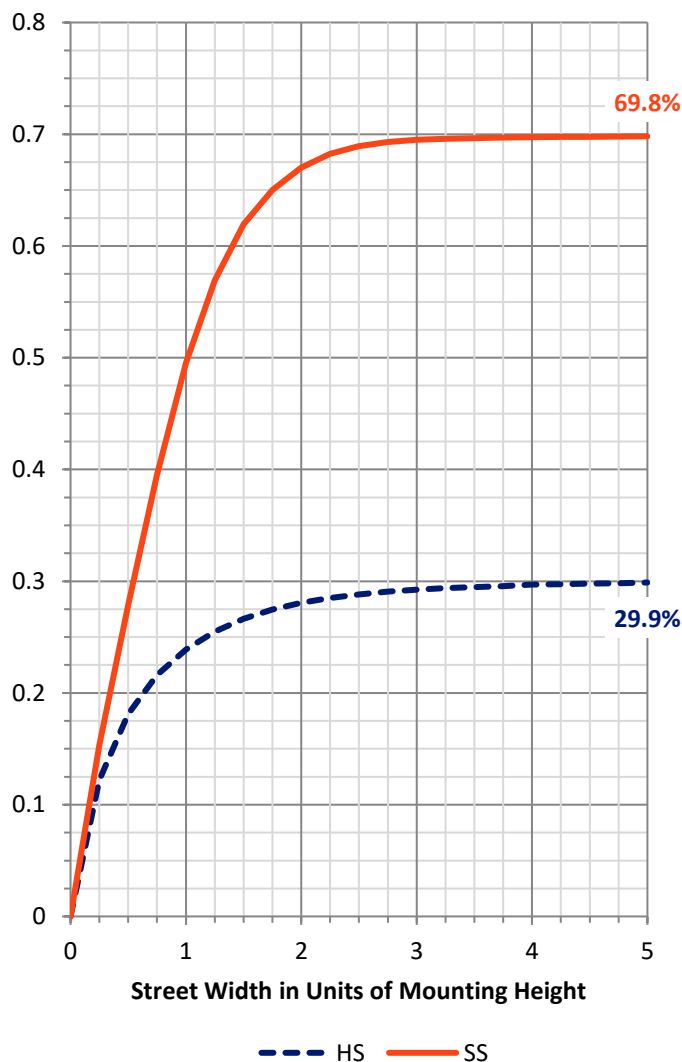
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14309.3	0.0	14309.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	33157.7	0.0	33157.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	47467.0	0.0	47467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1607.2	3.4
10°-20°	3484.1	7.3
20°-30°	5264.2	11.1
30°-40°	7607.0	16.0
40°-50°	10123.5	21.3
50°-60°	11323.4	23.9
60°-70°	6381.8	13.4
70°-80°	1422.6	3.0
80°-90°	253.3	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°	47467.0	100.0
0°-180°	47467.0	100.0

Coefficient of Utilization

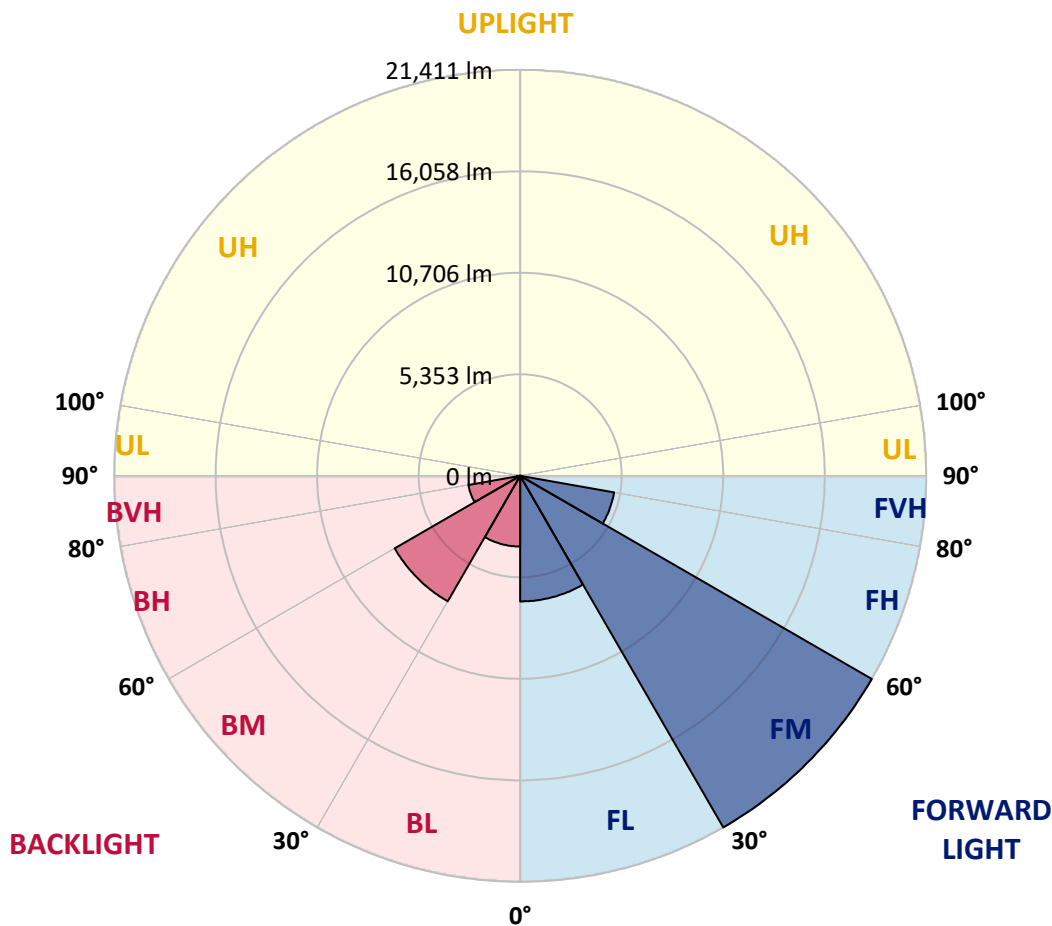


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6623.9	14.0			
FM (30°-60°)	21411.3	45.1			
FH (60°-80°)	5030.8	10.6			G3/7500
FVH (80°-90°)	91.7	0.2			G1/100
BL (0°-30°)	3731.5	7.9	B4/5000		
BM (30°-60°)	7642.6	16.1	B4/8500		
BH (60°-80°)	2773.6	5.8	B4/5000		G4/5000
BVH (80°-90°)	161.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1
2.5°	21417.0	21761.0	21389.5	20729.0	20261.2	19834.7	19387.5	19298.0	18713.2	18610.0	18183.5
5°	20199.3	20123.6	19669.5	18802.7	17846.4	16979.5	16339.7	15720.5	15300.8	14812.3	14777.9
7.5°	18720.1	18279.8	18018.4	16704.3	15521.0	14158.8	13574.0	12631.4	12335.6	11895.3	11668.3
10°	17399.2	17075.8	16463.5	15149.5	13498.3	12597.0	11971.0	11461.9	11117.9	10663.8	10092.8
12.5°	16745.6	16614.9	15926.9	13890.4	12665.8	11702.7	11262.3	10767.0	10182.2	9452.9	9170.9
15°	16862.5	16422.2	15899.4	13649.7	11957.2	11028.4	10326.7	9707.5	8957.6	8262.7	7856.8
17.5°	17736.3	17399.2	16353.4	13801.0	11688.9	10347.3	9074.5	8159.5	7485.3	6859.2	6577.2
20°	19456.3	18967.8	17791.3	13993.6	11111.0	9397.9	7939.4	6811.1	6088.7	5758.4	5662.1
22.5°	21362.0	21073.0	19194.8	14427.1	10650.0	8517.3	6735.4	5607.1	5338.8	5249.3	5428.2
25°	23680.5	22930.6	21375.7	15135.7	10292.3	7767.4	5717.2	5091.1	4953.5	5042.9	5249.3
27.5°	25441.7	25242.2	22903.1	15803.0	9803.8	6866.1	5146.1	4733.3	4774.6	4864.1	5056.7
30°	27533.2	26521.9	24382.2	16264.0	9363.5	6246.9	4747.1	4637.0	4678.3	4829.7	4926.0
32.5°	28792.2	28413.8	25311.0	16958.9	8854.4	5710.3	4437.5	4334.3	4396.2	4623.3	4850.3
35°	30395.2	29645.3	26460.0	17137.7	8496.6	5497.0	4217.4	4141.7	4286.2	4444.4	4698.9
37.5°	32266.6	31750.6	28049.2	17013.9	8304.0	5276.9	4031.6	3997.2	4100.4	4320.6	4616.4
40°	33374.2	33216.0	28881.7	17089.6	8001.3	5084.2	3818.3	3859.6	4072.9	4244.9	4533.8
42.5°	34440.6	33408.6	30113.2	17062.1	7808.6	4822.8	3839.0	3790.8	3955.9	4155.4	4430.6
45°	34674.5	33649.4	30402.1	16869.4	7574.7	4568.2	3680.7	3701.4	3900.9	4148.6	4327.4
47.5°	34523.2	33766.4	30938.8	16814.4	7354.6	4389.4	3446.8	3694.5	3811.4	4011.0	4265.5
50°	34420.0	34378.7	31392.8	17075.8	7058.7	4107.3	3164.7	3605.0	3722.0	3921.5	4196.7
52.5°	35328.1	35238.7	32528.0	17763.8	6824.8	3804.6	2875.8	3378.0	3660.1	3852.7	4121.0
55°	35878.5	35486.3	34475.0	18610.0	6432.7	3405.5	2676.3	3095.9	3508.7	3680.7	3955.9
57.5°	32273.4	32005.1	31186.4	17371.7	5772.2	2882.7	2428.6	2807.0	3302.3	3570.6	3852.7
60°	26852.1	26432.4	24334.1	14764.2	4258.6	2242.8	2277.2	2579.9	3247.3	3350.5	3680.7
62.5°	25317.9	24279.0	21423.9	11881.5	3267.9	1926.4	2043.3	2373.6	2958.3	3130.3	3460.6
65°	20089.2	19318.7	15328.3	8579.2	2187.8	1671.8	1864.4	2139.6	2552.4	2889.5	3192.3
67.5°	12576.4	11840.2	8180.2	4059.1	1527.3	1431.0	1664.9	1953.9	2291.0	2593.7	2930.8
70°	6570.3	5765.3	3777.0	1465.4	1052.6	1169.6	1389.7	1664.9	1995.2	2242.8	2504.3
72.5°	2449.2	1988.3	1231.5	632.9	729.3	894.4	1128.3	1327.8	1561.7	1864.4	2008.9
75°	378.4	323.4	316.5	385.3	495.4	646.7	804.9	1004.5	1210.9	1403.5	1499.8
77.5°	178.9	172.0	192.6	254.6	330.2	461.0	584.8	777.4	942.5	1066.4	1121.4
80°	117.0	110.1	123.8	172.0	247.7	344.0	467.8	598.5	749.9	853.1	839.3
82.5°	68.8	75.7	75.7	117.0	172.0	247.7	337.1	454.1	557.3	646.7	591.7
85°	41.3	34.4	34.4	68.8	117.0	199.5	282.1	192.6	199.5	199.5	227.0
87.5°	13.8	13.8	13.8	6.9	13.8	13.8	20.6	34.4	41.3	48.2	61.9
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: P534088

CATALOG NUMBER: GALN-SA9C-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1
2.5°	18169.7	18383.0	18307.3	18039.0	18245.4	18279.8	18142.2	18616.9	18706.4	18561.9	18603.2
5°	14729.8	14784.8	14908.7	15170.1	15355.9	15576.0	15576.0	15589.8	15404.0	15871.8	15734.3
7.5°	11475.6	11510.0	11654.5	12211.8	12370.0	12789.7	12968.5	12844.7	12473.2	12315.0	12445.7
10°	9907.0	9707.5	9659.3	9728.1	10085.9	10264.8	10416.1	10374.8	10312.9	10189.1	10051.5
12.5°	8861.3	8716.8	8599.8	8434.7	8455.4	8627.4	8744.3	8648.0	8675.5	8703.0	8744.3
15°	7726.1	7622.9	7561.0	7313.3	7285.8	7402.7	7444.0	7499.1	7602.3	7609.1	7561.0
17.5°	6522.1	6432.7	6570.3	6707.9	6611.6	6618.4	6694.1	6742.3	6714.7	6590.9	6529.0
20°	5696.5	5792.8	5930.4	6061.2	6164.4	6226.3	6253.8	6178.1	6088.7	5834.1	5827.2
22.5°	5455.7	5579.6	5696.5	5896.0	5992.4	6150.6	6006.1	5834.1	5710.3	5586.5	5442.0
25°	5276.9	5380.1	5614.0	5689.6	5875.4	6006.1	5902.9	5730.9	5517.7	5338.8	5228.7
27.5°	5146.1	5263.1	5414.5	5620.8	5765.3	5841.0	5737.8	5669.0	5448.9	5235.6	5077.3
30°	5063.6	5187.4	5462.6	5634.6	5758.4	5820.4	5641.5	5558.9	5400.7	5221.8	5084.2
32.5°	5008.5	5118.6	5352.5	5572.7	5655.2	5655.2	5682.8	5586.5	5366.3	5063.6	4946.6
35°	4829.7	4981.0	5173.7	5428.2	5579.6	5669.0	5531.4	5421.3	5276.9	4967.3	4754.0
37.5°	4726.5	4829.7	5077.3	5318.1	5448.9	5545.2	5490.1	5297.5	5104.9	4850.3	4678.3
40°	4616.4	4781.5	5001.7	5228.7	5373.2	5469.5	5428.2	5201.2	4967.3	4726.5	4609.5
42.5°	4540.7	4650.8	4877.8	5132.4	5304.4	5490.1	5366.3	5084.2	4919.1	4588.9	4458.2
45°	4478.8	4657.7	4898.5	5001.7	5180.5	5373.2	5153.0	4981.0	4788.4	4547.6	4437.5
47.5°	4403.1	4568.2	4726.5	5001.7	5084.2	5173.7	5132.4	4857.2	4692.1	4430.6	4355.0
50°	4375.6	4437.5	4726.5	4877.8	4994.8	5084.2	4974.1	4767.7	4609.5	4341.2	4176.1
52.5°	4265.5	4382.5	4568.2	4767.7	4912.2	5022.3	4843.4	4712.7	4499.4	4217.4	4114.2
55°	4127.9	4196.7	4527.0	4733.3	4809.0	4884.7	4815.9	4602.6	4382.5	4093.5	3990.3
57.5°	3949.0	4107.3	4375.6	4664.5	4760.9	4802.1	4692.1	4520.1	4244.9	3990.3	3825.2
60°	3763.3	3928.4	4224.2	4458.2	4554.5	4705.8	4540.7	4437.5	4121.0	3839.0	3660.1
62.5°	3577.5	3763.3	3983.4	4279.3	4361.8	4423.8	4382.5	4238.0	3983.4	3667.0	3446.8
65°	3357.4	3495.0	3770.2	3921.5	3976.6	4121.0	3976.6	3921.5	3694.5	3391.8	3206.0
67.5°	3027.1	3144.1	3384.9	3529.4	3570.6	3632.6	3625.7	3563.8	3309.2	3102.8	2937.7
70°	2648.7	2751.9	2903.3	3075.3	3095.9	3171.6	3102.8	3089.1	2923.9	2641.9	2552.4
72.5°	2125.9	2222.2	2421.7	2497.4	2504.3	2531.8	2497.4	2449.2	2408.0	2112.1	2022.7
75°	1630.5	1685.6	1781.9	1850.7	1850.7	1885.1	1864.4	1816.3	1706.2	1520.5	1431.0
77.5°	1135.2	1190.2	1314.1	1355.3	1348.5	1362.2	1300.3	1252.1	1087.0	990.7	915.0
80°	825.6	860.0	921.9	949.4	956.3	976.9	901.3	860.0	763.7	653.6	619.2
82.5°	598.5	619.2	626.1	660.5	660.5	626.1	605.4	564.1	495.4	426.6	399.0
85°	247.7	254.6	261.4	302.7	309.6	371.5	344.0	323.4	282.1	240.8	220.2
87.5°	61.9	68.8	89.4	75.7	89.4	89.4	96.3	110.1	110.1	89.4	89.4
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°	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1
2.5°	18761.4	18816.4	19518.2	19607.6	19951.6	20302.5	21011.1	21520.2	21933.0	22201.3	22277.0
5°	15878.7	16229.6	16553.0	17075.8	17550.5	18224.8	19002.2	19965.4	21176.2	21795.4	22043.1
7.5°	12431.9	12844.7	13312.5	13821.6	14516.5	15727.4	16766.2	17880.8	19428.7	20068.6	21038.6
10°	10147.8	10608.8	11227.9	11620.1	12459.4	13615.3	14826.1	16112.6	17591.8	18513.7	19635.1
12.5°	8971.3	9349.7	9920.8	10746.3	11372.4	12122.3	13023.6	14647.2	16766.2	17640.0	18410.5
15°	7671.0	8090.7	8751.2	9666.2	10416.1	11310.5	12321.8	14090.0	16346.6	17695.0	18348.6
17.5°	6597.8	6900.5	7595.4	8386.6	9246.5	10223.5	11675.1	14062.4	16786.9	18513.7	19580.1
20°	5854.8	5896.0	6274.4	6948.7	8118.2	9391.0	11276.1	13924.8	18197.2	19924.1	21272.5
22.5°	5386.9	5345.7	5352.5	5923.6	6742.3	8572.3	10650.0	14392.7	19800.3	22166.9	23075.1
25°	5153.0	5042.9	4974.1	5098.0	5841.0	7602.3	10175.3	15011.9	21527.1	24017.6	25132.1
27.5°	5029.2	4836.5	4698.9	4719.6	5263.1	7113.8	9879.5	15280.2	23240.2	26597.6	26989.7
30°	4981.0	4740.2	4540.7	4471.9	4829.7	6432.7	9246.5	15741.1	24774.4	28014.8	28351.9
32.5°	4809.0	4513.2	4320.6	4258.6	4403.1	5834.1	8792.5	16071.4	26129.7	29555.9	29438.9
35°	4609.5	4361.8	4121.0	4004.1	4107.3	5448.9	8427.8	15913.1	27725.9	30753.0	30691.1
37.5°	4588.9	4265.5	4066.0	3873.4	3866.5	4974.1	7932.5	16064.5	28744.1	32899.5	32053.3
40°	4410.0	4203.6	3942.2	3783.9	3694.5	4733.3	7450.9	15706.7	30237.0	33766.4	32933.9
42.5°	4416.9	4107.3	3880.2	3694.5	3605.0	4382.5	7120.7	15610.4	30759.9	35176.7	33346.7
45°	4306.8	4004.1	3811.4	3591.3	3543.1	4114.2	6804.2	15163.2	31681.8	35245.5	32830.7
47.5°	4196.7	3928.4	3722.0	3460.6	3350.5	4017.8	6556.5	14791.7	31200.2	34598.8	32115.2
50°	4121.0	3811.4	3618.8	3433.1	3123.5	3852.7	6233.2	14702.3	30526.0	33725.1	30787.4
52.5°	3990.3	3715.1	3515.6	3371.1	2875.8	3701.4	6109.3	15225.1	31351.5	33071.5	30402.1
55°	3866.5	3584.4	3329.9	3047.8	2669.4	3302.3	5765.3	15713.6	32555.5	34578.2	32149.6
57.5°	3735.8	3467.5	3192.3	2855.1	2469.9	2889.5	5407.6	15803.0	30298.9	31957.0	30519.1
60°	3563.8	3219.8	3013.4	2573.1	2256.6	2394.2	4286.2	13931.7	23501.6	26687.0	26735.2
62.5°	3371.1	2999.6	2820.7	2304.8	2036.4	2064.0	3495.0	11709.5	19064.1	22091.2	23405.3
65°	3116.6	2758.8	2545.6	2132.8	1878.2	1788.8	2559.3	8579.2	14482.1	17922.0	19415.0
67.5°	2786.3	2449.2	2180.9	1857.6	1678.7	1534.2	1747.5	4829.7	8551.7	12032.9	12487.0
70°	2435.5	2146.5	1864.4	1596.1	1396.6	1293.4	1279.7	2139.6	4086.6	6474.0	7368.3
72.5°	1919.5	1713.1	1486.1	1286.5	1155.8	1004.5	915.0	887.5	1382.9	2635.0	3639.4
75°	1376.0	1204.0	1073.3	942.5	846.2	763.7	694.9	632.9	577.9	660.5	908.1
77.5°	866.9	804.9	701.7	667.3	612.3	591.7	564.1	529.7	488.5	461.0	461.0
80°	584.8	543.5	509.1	502.2	481.6	474.7	481.6	447.2	405.9	371.5	385.3
82.5°	392.2	385.3	378.4	371.5	378.4	385.3	399.0	392.2	357.8	337.1	344.0
85°	233.9	247.7	261.4	275.2	302.7	268.3	220.2	185.8	165.1	151.4	144.5
87.5°	89.4	123.8	110.1	103.2	110.1	103.2	96.3	89.4	75.7	68.8	68.8
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: P534088

CATALOG NUMBER: GALN-SA9C-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1	21066.1
2.5°	22779.2	22916.8	23033.8	23006.3	22765.5	22442.1	22311.4	21644.1	21506.5	21417.0
5°	23088.8	23886.9	24058.9	23955.7	23329.6	22538.4	21767.9	20791.0	20219.9	20199.3
7.5°	22517.8	23501.6	23811.2	24045.1	23212.7	21836.7	20515.8	19050.3	18692.6	18720.1
10°	21066.1	22634.8	23398.4	23639.2	22682.9	21492.7	19662.7	18176.6	17412.9	17399.2
12.5°	20261.2	21492.7	21706.0	22043.1	21761.0	20557.0	19167.3	17502.4	16759.4	16745.6
15°	19545.7	20357.5	20419.4	20894.1	21045.5	20233.7	19298.0	17523.0	16924.5	16862.5
17.5°	20171.8	19607.6	19373.7	19435.6	19882.8	20178.6	20054.8	18692.6	18080.3	17736.3
20°	20591.4	19332.4	18623.8	18692.6	19222.3	20302.5	21183.1	20385.0	19415.0	19456.3
22.5°	21712.9	19373.7	18266.0	18190.4	19029.7	20949.2	22455.9	22524.7	21589.0	21362.0
25°	23391.5	19848.4	18156.0	18135.3	18940.3	21644.1	23941.9	25056.5	24100.2	23680.5
27.5°	24740.0	20591.4	18500.0	18568.8	19222.3	22208.2	25207.8	26687.0	25957.7	25441.7
30°	25923.3	21362.0	18981.5	18665.1	19979.1	22504.0	25751.3	28544.6	27959.8	27533.2
32.5°	26411.8	22455.9	19745.2	19222.3	20605.2	22861.8	26879.6	30347.1	29844.9	28792.2
35°	27237.4	23068.2	20158.0	20116.7	21699.1	23721.8	27409.4	31537.3	31330.9	30395.2
37.5°	27897.9	23687.4	21623.4	21169.3	23198.9	25166.5	28262.5	33181.6	32706.9	32266.6
40°	28407.0	24795.0	22992.5	23591.1	25042.7	26480.6	29046.8	33284.8	34653.9	33374.2
42.5°	27939.1	25785.7	25242.2	26673.2	28049.2	27980.4	29136.2	34082.9	35108.0	34440.6
45°	27822.2	27464.4	28799.1	30099.4	30415.9	29225.7	28496.4	33202.2	34970.4	34674.5
47.5°	27540.1	29115.6	31441.0	33560.0	33078.4	30058.1	27732.7	33044.0	35052.9	34523.2
50°	27443.8	29473.3	33394.9	35458.8	35169.9	30780.5	27375.0	32025.8	34468.1	34420.0
52.5°	27436.9	30209.5	34206.7	36490.8	36669.7	31922.6	27863.5	32541.8	34922.2	35328.1
55°	27746.5	29975.6	34103.5	35919.8	35851.0	31413.5	27918.5	32885.8	35479.5	35878.5
57.5°	26171.0	26852.1	28145.5	29583.4	29211.9	26019.6	24932.6	30402.1	32562.4	32273.4
60°	22600.4	20467.6	19009.1	18940.3	18217.9	17220.3	20405.7	27134.2	27134.2	26852.1
62.5°	19793.4	13436.4	11544.4	11007.8	11523.8	12672.7	19683.3	26391.2	25641.3	25317.9
65°	17309.7	10257.9	8345.3	8193.9	9088.3	10822.0	17798.2	22483.4	21162.5	20089.2
67.5°	11138.5	7512.8	6205.6	5937.3	7017.5	7946.2	11847.1	13828.5	12996.1	12576.4
70°	7182.6	4891.6	3453.7	3240.4	3660.1	4898.5	7567.9	8063.2	6852.3	6570.3
72.5°	3398.7	2112.1	1210.9	997.6	1121.4	1871.3	2992.7	3219.8	2676.3	2449.2
75°	1080.1	777.4	495.4	426.6	405.9	481.6	688.0	529.7	385.3	378.4
77.5°	481.6	461.0	392.2	330.2	289.0	240.8	199.5	165.1	172.0	178.9
80°	399.0	364.6	323.4	289.0	240.8	185.8	144.5	110.1	110.1	117.0
82.5°	350.9	316.5	282.1	240.8	206.4	151.4	110.1	75.7	68.8	68.8
85°	151.4	178.9	192.6	206.4	165.1	123.8	75.7	48.2	41.3	41.3
87.5°	61.9	55.0	48.2	41.3	34.4	34.4	27.5	20.6	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)