

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: P457454

Luminaire Tested: **GALN-SA8D-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44861 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

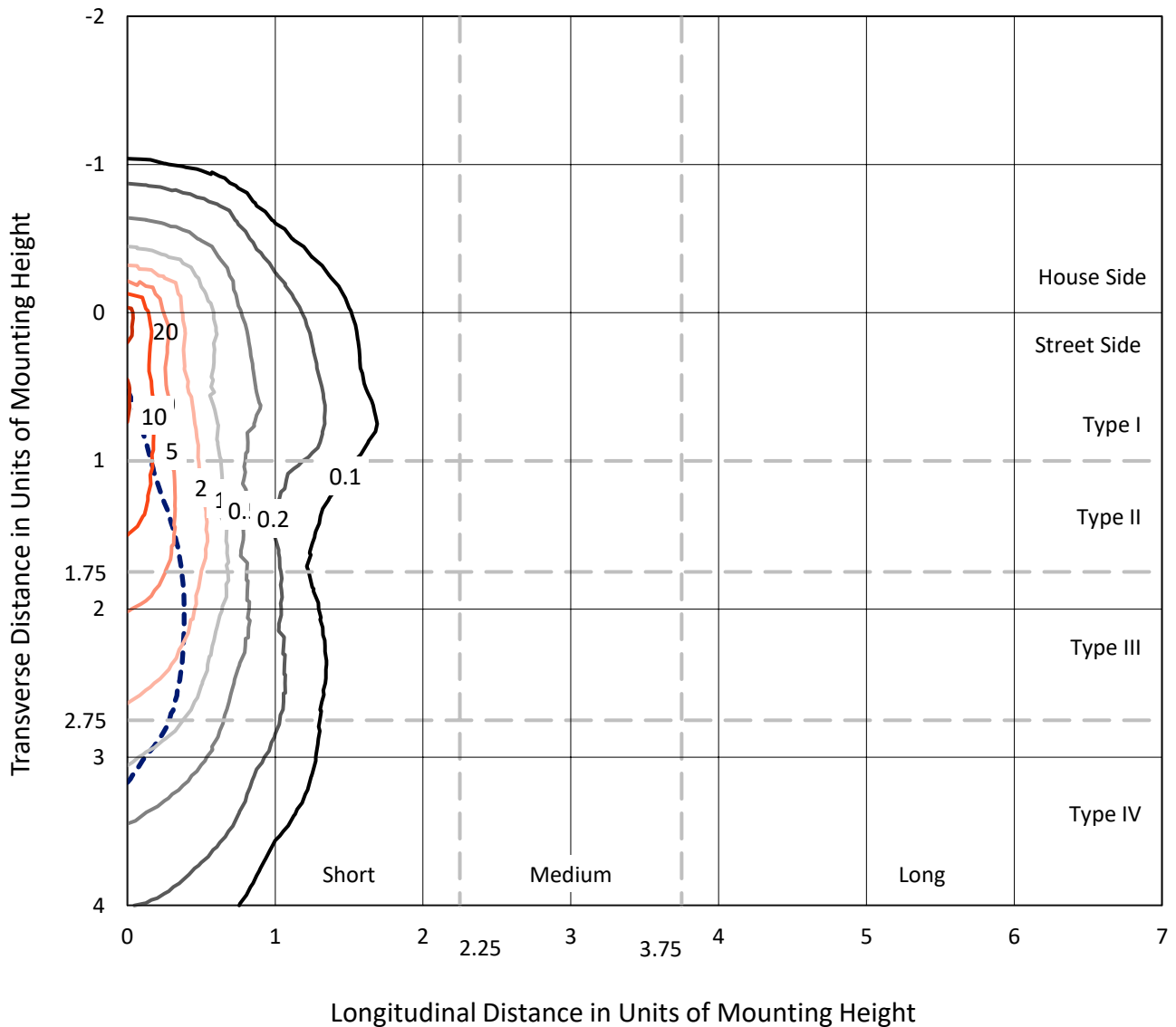
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

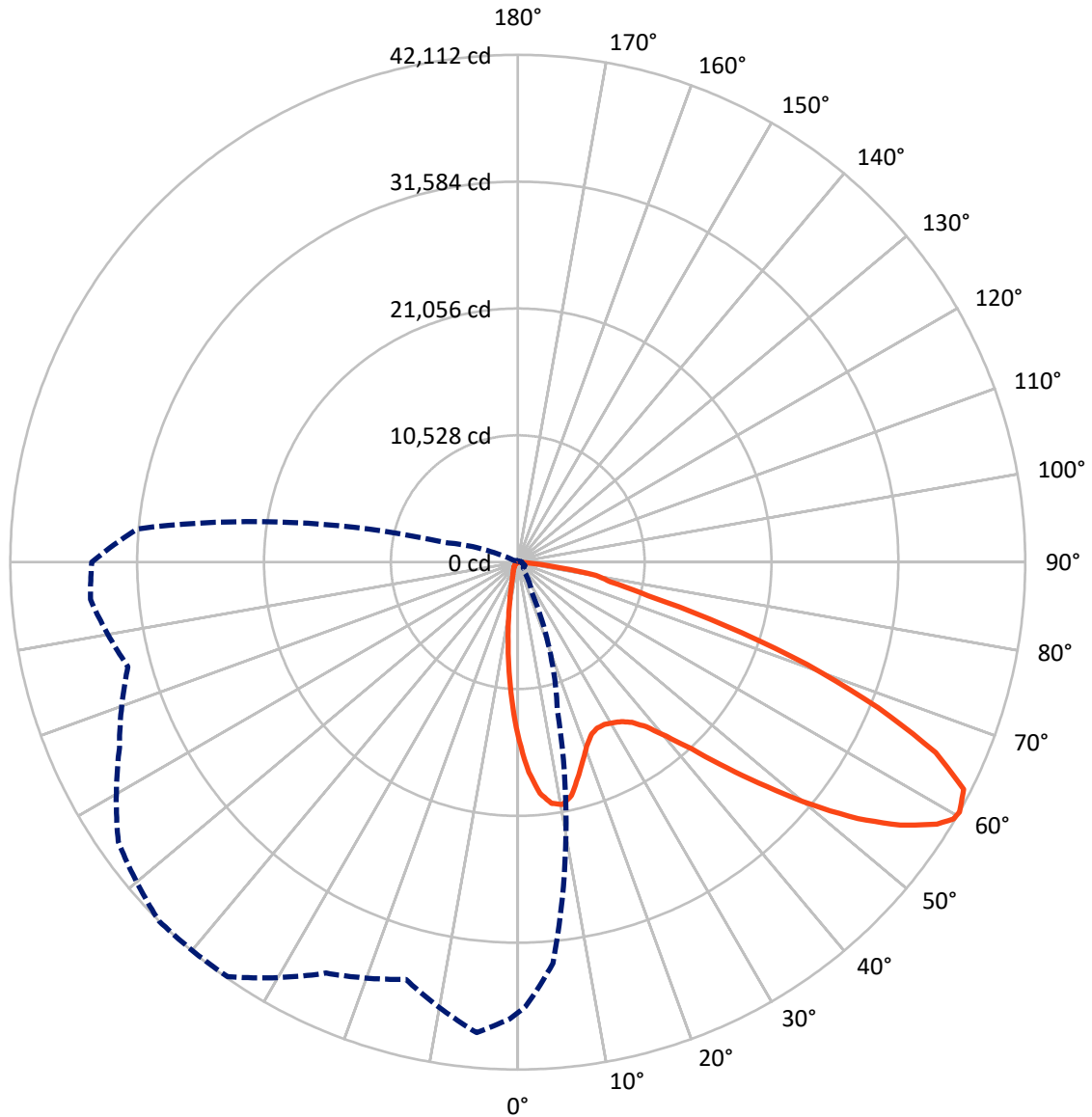
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5533.2	0.0	5533.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	39327.8	0.0	39327.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	44861.0	0.0	44861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1102.8	2.5
10°-20°	2190.2	4.9
20°-30°	3211.4	7.2
30°-40°	4775.9	10.6
40°-50°	6950.4	15.5
50°-60°	10023.0	22.3
60°-70°	11024.2	24.6
70°-80°	4938.0	11.0
80°-90°	645.2	1.4
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°	44861.0	100.0
0°-180°	44861.0	100.0

Coefficient of Utilization



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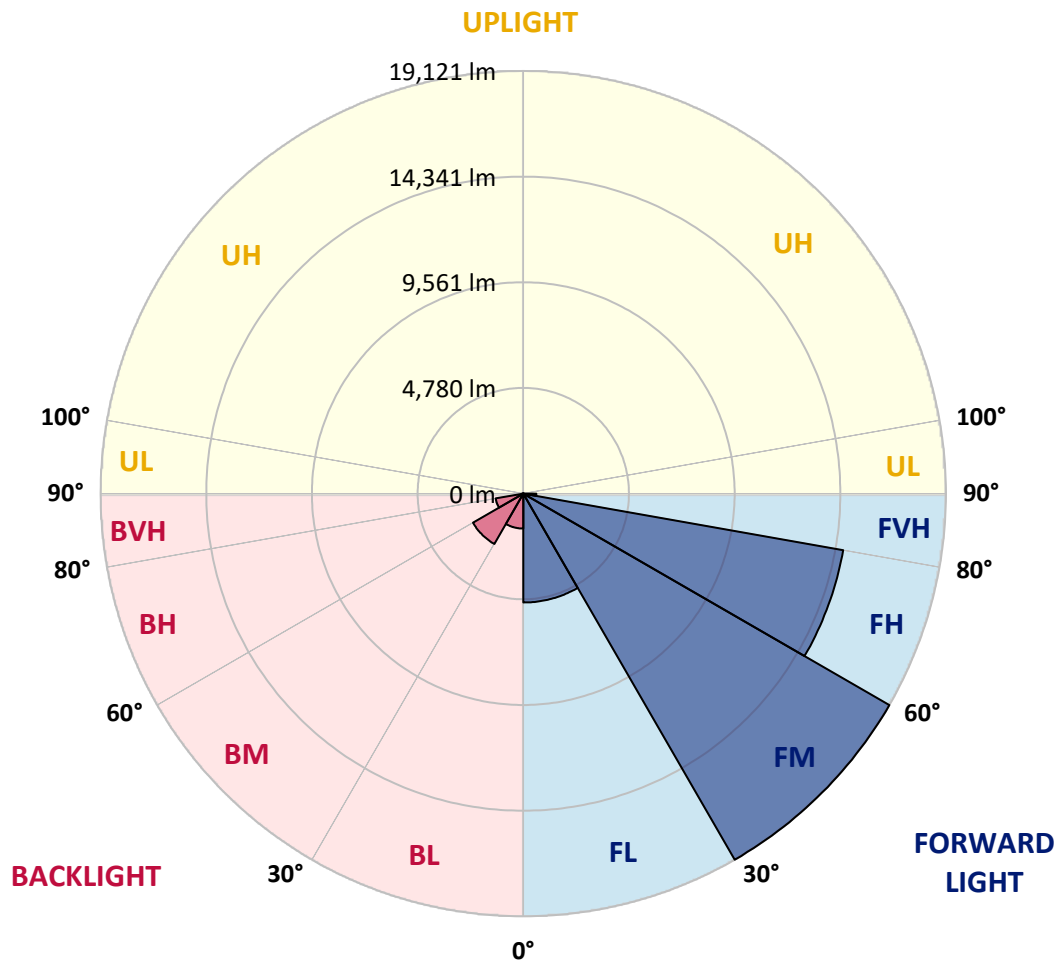
CATALOG NUMBER: GALN-SA8D-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4923.3	11.0			
FM	(30°-60°)	19121.1	42.6			
FH	(60°-80°)	14693.3	32.8			G5
FVH	(80°-90°)	590.1	1.3			G4/750
BL	(0°-30°)	1581.0	3.5	B3/2500		
BM	(30°-60°)	2628.1	5.9	B3/5000		
BH	(60°-80°)	1268.9	2.8	B3/2500		G3/2500
BVH	(80°-90°)	55.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2
2.5°	16300.4	16228.8	16065.1	15567.2	15134.1	14568.0	13995.1	13545.0	13268.8	12760.7	12528.8
5°	15792.3	15826.4	15352.4	14329.3	13190.3	12412.8	11563.7	10888.5	10145.1	9674.5	9180.0
7.5°	14465.7	14397.5	13882.6	12457.2	11072.7	9947.3	8873.1	8000.1	7451.1	7011.2	6642.9
10°	13330.2	13279.0	12620.9	10786.2	9299.4	8457.1	7730.7	6966.9	6376.9	5732.4	5217.5
12.5°	12617.4	12501.5	11744.5	9828.0	8617.4	7833.0	7041.9	6247.3	5432.3	4781.0	4156.9
15°	12378.7	12211.6	11369.3	9497.2	8180.9	7185.1	6192.8	5278.9	4341.1	3621.5	3151.0
17.5°	12811.8	12535.6	11638.7	9439.2	7659.1	6339.4	5118.6	3928.5	2953.2	2404.1	2114.3
20°	13804.2	13487.0	12320.8	9381.2	7079.4	5391.4	3890.9	2775.8	2042.7	1742.6	1582.3
22.5°	15277.3	14840.8	13330.2	9473.3	6544.0	4467.3	2809.9	1960.8	1623.2	1435.7	1323.1
25°	17047.2	16682.3	14609.0	9800.7	6121.2	3740.9	2172.2	1602.8	1367.5	1251.5	1166.3
27.5°	18987.5	18404.4	16262.9	10192.8	5735.8	3178.2	1906.3	1432.3	1217.4	1111.7	1067.4
30°	20368.6	19915.1	17647.4	10465.7	5255.0	2755.4	1742.6	1411.8	1220.8	1094.6	1012.8
32.5°	21732.7	21153.0	18806.8	10591.8	4903.8	2462.1	1507.3	1231.1	1070.8	1006.0	924.1
35°	23192.2	22585.2	19962.8	10523.6	4641.2	2267.7	1367.5	1098.1	917.3	808.2	726.4
37.5°	24668.8	24027.7	21112.1	10278.1	4477.5	2189.3	1258.3	1043.5	866.2	753.6	665.0
40°	26421.6	25565.7	22189.7	10076.9	4307.0	2148.4	1186.7	1009.4	828.7	709.3	620.6
42.5°	27853.9	27038.8	23209.3	9971.2	4191.0	2052.9	1186.7	982.1	804.8	671.8	579.7
45°	29211.1	28365.4	24310.7	10056.4	4143.3	1933.5	1200.4	978.7	787.7	644.5	552.4
47.5°	30346.7	29613.5	25442.9	10377.0	4081.9	1804.0	1128.7	1026.4	777.5	620.6	525.2
50°	31686.8	30977.5	26939.9	11024.9	3972.8	1674.4	1040.1	1104.9	774.1	600.2	501.3
52.5°	33576.0	32808.8	29006.5	11761.5	3798.9	1476.6	958.2	1094.6	760.5	566.1	477.4
55°	35884.7	35264.1	31400.4	12644.7	3560.2	1254.9	828.7	971.9	719.5	508.1	436.5
57.5°	37364.7	36836.1	33194.1	13026.7	3195.3	1026.4	729.8	815.0	658.2	453.5	388.8
59°	37538.6	37061.2	33569.2	12900.5	2956.6	937.8	682.0	699.1	641.1	422.9	361.5
60°	37392.0	36897.5	33419.2	12655.0	2734.9	876.4	641.1	620.6	644.5	405.8	341.0
62.5°	36450.8	35605.1	31963.1	11410.3	2390.5	804.8	569.5	508.1	569.5	364.9	303.5
65°	34633.2	33364.6	29081.5	9657.5	2254.1	763.9	484.2	426.3	433.1	320.6	262.6
67.5°	31458.4	29859.0	25245.1	7846.7	2196.1	767.3	409.2	381.9	334.2	272.8	231.9
70°	26438.7	24842.7	20256.1	6455.4	2168.8	767.3	347.8	327.4	279.6	228.5	201.2
72.5°	18735.2	17016.5	13664.4	5070.8	1954.0	763.9	296.7	296.7	228.5	191.0	163.7
75°	10585.0	10598.7	8590.1	3587.4	1623.2	630.9	238.7	235.3	167.1	146.6	122.8
77.5°	6168.9	6059.8	5790.4	1541.4	753.6	286.5	167.1	143.2	115.9	105.7	88.7
80°	3171.4	2608.7	2540.5	559.3	269.4	180.7	115.9	81.8	75.0	68.2	61.4
82.5°	937.8	941.2	838.9	225.1	150.0	119.4	58.0	44.3	40.9	37.5	37.5
85°	64.8	40.9	47.7	68.2	92.1	47.7	3.4	10.2	10.2	13.6	17.1
87.5°	6.8	3.4	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°	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2
2.5°	12273.0	12423.1	12143.4	12150.3	11918.4	11993.4	11720.6	11809.2	11649.0	11771.7	12133.2
5°	9234.6	9268.7	9043.6	8972.0	9006.1	9145.9	9200.5	8951.6	9057.3	8849.3	8835.6
7.5°	6506.5	6547.4	6417.8	6400.8	6646.3	6588.4	6694.1	6438.3	6196.2	6301.9	6107.5
10°	5053.8	4883.3	4617.3	4542.3	4494.5	4525.2	4525.2	4293.3	4259.2	4167.2	4307.0
12.5°	3989.8	3781.8	3529.5	3188.5	3103.2	3096.4	2970.2	2765.6	2700.8	2622.4	2738.3
15°	2898.6	2813.3	2601.9	2411.0	2216.6	2179.1	1974.5	1807.4	1585.7	1555.0	1544.8
17.5°	2039.3	1913.1	1909.7	1800.5	1688.0	1613.0	1422.0	1231.1	1145.8	1135.6	1135.6
20°	1527.7	1483.4	1411.8	1398.1	1364.0	1278.8	1108.3	1006.0	965.1	968.5	982.1
22.5°	1285.6	1254.9	1190.1	1159.4	1145.8	1070.8	944.6	876.4	855.9	855.9	859.4
25°	1149.2	1121.9	1050.3	1002.6	985.5	931.0	832.1	780.9	763.9	763.9	763.9
27.5°	1046.9	1012.8	937.8	896.9	866.2	804.8	743.4	692.3	675.2	675.2	678.6
30°	975.3	937.8	869.6	815.0	767.3	712.7	661.6	617.2	596.8	593.4	596.8
32.5°	879.8	845.7	777.5	743.4	688.8	624.1	583.1	542.2	521.7	525.2	521.7
35°	685.4	675.2	627.5	637.7	607.0	552.4	514.9	470.6	446.7	443.3	450.1
37.5°	624.1	583.1	528.6	532.0	521.7	501.3	439.9	392.2	375.1	375.1	378.5
40°	576.3	535.4	474.0	443.3	446.7	446.7	381.9	330.8	313.7	310.3	317.1
42.5°	535.4	494.5	426.3	375.1	361.5	378.5	324.0	272.8	255.8	248.9	255.8
45°	508.1	463.8	385.3	327.4	286.5	306.9	266.0	225.1	204.6	204.6	201.2
47.5°	480.8	439.9	354.7	283.0	238.7	228.5	218.2	180.7	160.3	156.9	160.3
50°	457.0	416.0	320.6	245.5	201.2	177.3	177.3	143.2	129.6	122.8	126.2
52.5°	433.1	388.8	289.9	218.2	173.9	143.2	126.2	115.9	105.7	102.3	105.7
55°	399.0	354.7	259.2	187.6	150.0	119.4	98.9	95.5	88.7	81.8	88.7
57.5°	358.1	317.1	228.5	160.3	119.4	92.1	81.8	78.4	71.6	68.2	68.2
59°	334.2	296.7	211.4	139.8	105.7	81.8	75.0	71.6	64.8	58.0	61.4
60°	320.6	289.9	201.2	129.6	95.5	75.0	68.2	64.8	58.0	54.6	58.0
62.5°	283.0	259.2	177.3	105.7	75.0	54.6	47.7	51.2	47.7	44.3	47.7
65°	248.9	228.5	150.0	81.8	58.0	37.5	34.1	44.3	40.9	37.5	40.9
67.5°	221.7	197.8	126.2	61.4	40.9	20.5	23.9	37.5	37.5	34.1	37.5
70°	191.0	170.5	102.3	44.3	20.5	10.2	17.1	27.3	34.1	30.7	34.1
72.5°	156.9	133.0	78.4	30.7	10.2	0.0	10.2	23.9	34.1	30.7	34.1
75°	122.8	98.9	58.0	17.1	0.0	0.0	3.4	20.5	34.1	30.7	34.1
77.5°	88.7	71.6	34.1	3.4	0.0	0.0	3.4	20.5	34.1	30.7	34.1
80°	58.0	51.2	13.6	0.0	0.0	0.0	3.4	20.5	34.1	34.1	37.5
82.5°	37.5	27.3	0.0	0.0	0.0	0.0	6.8	27.3	37.5	40.9	40.9
85°	17.1	0.0	0.0	0.0	0.0	0.0	13.6	34.1	44.3	44.3	44.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.8	23.9	40.9	51.2	51.2	51.2
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°	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2
2.5°	12194.6	12409.4	12712.9	13180.1	13558.6	14155.4	14612.4	15236.4	15867.3	16058.3	16354.9
5°	8975.4	9251.7	9940.5	10568.0	10963.5	12225.3	13023.2	14281.6	15410.3	15952.5	16542.5
7.5°	6233.7	6561.1	7086.2	7962.6	8794.7	9821.1	11110.2	12549.2	14203.1	14977.2	15809.3
10°	4375.2	4784.4	5524.4	6243.9	7290.8	8266.1	9538.1	11127.2	12951.6	13865.5	14909.0
12.5°	2762.2	3127.1	4105.8	4914.0	6220.1	7352.2	8525.3	9964.4	12078.6	13016.4	14111.1
15°	1578.9	1885.8	2342.8	3379.4	4828.7	6325.8	7788.7	9459.7	11631.9	12787.9	13971.3
17.5°	1176.5	1258.3	1462.9	2049.5	3369.2	5118.6	7110.1	9306.2	11935.4	13292.6	14643.1
20°	988.9	1043.5	1139.0	1370.9	2148.4	3942.1	6448.5	9333.5	12917.5	14622.6	15904.8
22.5°	886.6	920.7	999.2	1149.2	1466.4	2871.3	5674.4	9493.8	14107.7	16256.0	17736.0
25°	777.5	821.8	890.0	1019.6	1220.8	1991.5	4910.6	9851.8	15775.2	18329.4	19720.7
27.5°	692.3	733.2	801.4	920.7	1070.8	1520.9	4020.5	10158.7	17534.8	20416.4	21555.4
30°	607.0	647.9	716.1	811.6	948.0	1231.1	3062.3	10339.5	19243.3	21981.6	22858.0
32.5°	535.4	569.5	634.3	719.5	832.1	1043.5	2414.4	10151.9	20549.4	23403.7	23990.2
35°	463.8	504.7	559.3	637.7	736.6	890.0	2008.6	9504.0	21671.3	24866.6	25078.0
37.5°	388.8	436.5	494.5	566.1	644.5	818.4	1613.0	8787.9	22871.7	26691.0	26343.2
40°	327.4	371.7	426.3	504.7	576.3	750.2	1241.3	8024.0	24167.5	28402.9	27724.3
42.5°	266.0	313.7	378.5	450.1	569.5	654.7	961.7	7232.9	25330.4	29893.1	28972.4
45°	211.4	252.3	320.6	412.6	566.1	562.7	743.4	6451.9	26206.8	30957.1	29903.3
47.5°	167.1	201.2	269.4	402.4	521.7	477.4	596.8	5967.7	27127.5	31915.3	30616.1
50°	133.0	167.1	231.9	419.4	457.0	409.2	501.3	6046.1	28017.5	32403.0	30909.3
52.5°	112.5	146.6	201.2	330.8	351.2	358.1	439.9	6407.6	29166.8	32924.7	31492.5
55°	98.9	129.6	170.5	231.9	272.8	320.6	402.4	6670.2	30704.7	34043.2	32778.1
57.5°	78.4	112.5	153.5	197.8	225.1	279.6	371.7	6690.7	32096.0	35478.9	34486.5
59°	71.6	102.3	143.2	187.6	201.2	252.3	351.2	6516.7	32147.2	35693.7	35270.9
60°	64.8	98.9	136.4	173.9	191.0	238.7	334.2	6315.5	31683.4	35352.7	35594.8
62.5°	54.6	85.3	119.4	139.8	163.7	197.8	289.9	5585.8	29436.2	33807.9	34994.7
65°	47.7	75.0	102.3	115.9	136.4	170.5	255.8	4470.7	26953.6	31714.1	33276.0
67.5°	44.3	68.2	88.7	98.9	119.4	156.9	228.5	3157.8	23737.8	29057.6	30694.5
70°	40.9	64.8	78.4	92.1	105.7	133.0	194.4	1841.5	18285.1	24399.4	26128.3
72.5°	40.9	61.4	68.2	78.4	92.1	119.4	180.7	995.8	12501.5	18612.4	20846.1
75°	40.9	58.0	61.4	68.2	81.8	109.1	160.3	521.7	8082.0	12931.2	15959.4
77.5°	40.9	54.6	61.4	64.8	78.4	95.5	139.8	327.4	5384.6	9057.3	10786.2
80°	44.3	54.6	58.0	64.8	75.0	88.7	115.9	218.2	3164.6	5449.4	6564.5
82.5°	47.7	54.6	61.4	68.2	78.4	85.3	102.3	136.4	1459.5	3604.5	4078.5
85°	51.2	58.0	64.8	71.6	81.8	85.3	95.5	98.9	238.7	1626.6	2199.5
87.5°	54.6	61.4	68.2	75.0	88.7	88.7	88.7	88.7	81.8	173.9	443.3
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: P457454

CATALOG NUMBER: GALN-SA8D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2	14827.2
2.5°	16730.0	17115.4	17384.8	17453.0	17258.6	17170.0	16924.4	16542.5	16310.6	16300.4
5°	17630.3	18534.0	19161.5	19267.2	18892.1	18257.8	17504.1	16532.3	15962.8	15792.3
7.5°	17476.9	19059.2	20068.6	20215.2	19584.3	18373.7	16914.2	15349.0	14728.3	14465.7
10°	16846.0	18776.1	20218.6	20450.5	19608.2	17903.1	16048.0	14302.0	13531.4	13330.2
12.5°	16307.2	18257.8	19540.0	19860.5	19222.8	17521.2	15529.7	13630.2	12805.0	12617.4
15°	16071.9	17644.0	18428.3	18592.0	18486.3	17282.5	15475.1	13527.9	12583.3	12378.7
17.5°	16307.2	17122.2	17221.1	17388.2	17623.5	17258.6	16000.3	14083.8	13064.2	12811.8
20°	16924.4	16668.7	16259.5	16331.1	16869.9	17357.5	16934.7	15314.8	14073.6	13804.2
22.5°	17974.7	16556.1	15628.6	15567.2	16249.2	17688.3	18305.5	16982.4	15543.3	15277.3
25°	19263.8	16839.2	15396.7	15263.7	16007.1	18172.5	19795.7	19025.1	17453.0	17047.2
27.5°	20668.7	17425.7	15396.7	15267.1	15986.6	18602.2	21071.1	20832.4	19430.9	18987.5
30°	21439.4	17910.0	15618.3	15471.7	16239.0	18851.1	21753.2	22438.6	20917.7	20368.6
32.5°	22128.3	18581.7	16051.4	15775.2	16767.6	19219.4	22363.6	23802.6	22101.0	21732.7
35°	22762.6	19301.3	16648.2	16327.7	17463.2	19724.1	23038.8	25234.9	23748.1	23192.2
37.5°	23461.6	20136.8	17579.2	17306.4	18626.1	20706.2	23840.1	27117.3	25367.9	24668.8
40°	24222.1	21105.2	19110.3	18994.4	20474.4	21817.9	24853.0	29125.8	27216.2	26421.6
42.5°	24996.2	22220.3	20985.9	21176.8	22568.2	23376.4	25893.0	30670.6	28730.3	27853.9
45°	25698.7	23645.8	23424.1	24368.7	25009.8	24897.3	26663.7	31758.4	30050.0	29211.1
47.5°	26585.3	25722.5	26373.9	27830.0	27847.0	26551.2	27246.9	32648.5	31185.5	30346.7
50°	27577.6	28174.4	30183.0	31666.4	31267.4	28177.8	27928.9	33702.2	32358.6	31686.8
52.5°	28726.9	30919.6	33702.2	35349.3	34418.3	29951.1	29064.5	34841.2	34220.6	33576.0
55°	30063.6	32791.7	37211.2	38524.1	37586.3	32154.0	30790.0	36386.0	36324.6	35884.7
57.5°	31574.3	34769.6	39243.7	41020.3	40184.9	34738.9	33200.9	37842.1	37610.2	37364.7
59°	32767.8	35785.8	40140.5	41982.0	41477.3	36549.7	34820.7	38749.2	37906.9	37538.6
60°	33490.8	36474.6	40471.3	42111.6	41995.6	37627.3	35847.2	39192.5	37903.5	37392.0
62.5°	35635.8	37678.4	40345.1	41535.3	41988.8	39693.8	38858.3	39680.2	37201.0	36450.8
65°	36399.6	37279.4	38254.7	38108.1	38496.8	39588.1	40781.6	39144.8	35700.5	34633.2
67.5°	34912.8	32904.2	33248.7	32270.0	32079.0	35195.8	40000.7	36525.8	32764.4	31458.4
70°	29429.3	25207.6	25033.7	25483.8	24249.4	28495.0	35918.8	31482.2	27918.7	26438.7
72.5°	23164.9	17814.5	16348.1	18005.4	17967.9	21739.5	29838.5	22339.7	18861.4	18735.2
75°	18216.9	12402.6	10885.1	11154.5	11672.8	15737.7	23765.1	14186.1	11614.9	10585.0
77.5°	12228.7	8787.9	8197.9	7867.1	8426.4	10104.2	15035.2	7693.2	6513.3	6168.9
80°	7048.7	6383.7	7249.9	6581.5	6881.6	6366.7	7478.4	3529.5	2929.3	3171.4
82.5°	4586.6	3635.2	3873.9	2878.1	3935.3	3969.4	2400.7	1043.5	883.2	937.8
85°	2867.9	1705.1	958.2	682.0	1357.2	2496.2	750.2	64.8	75.0	64.8
87.5°	743.4	283.0	119.4	177.3	218.2	194.4	173.9	10.2	3.4	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)