

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: P454668

Luminaire Tested: **GALN-SA5D-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27822 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

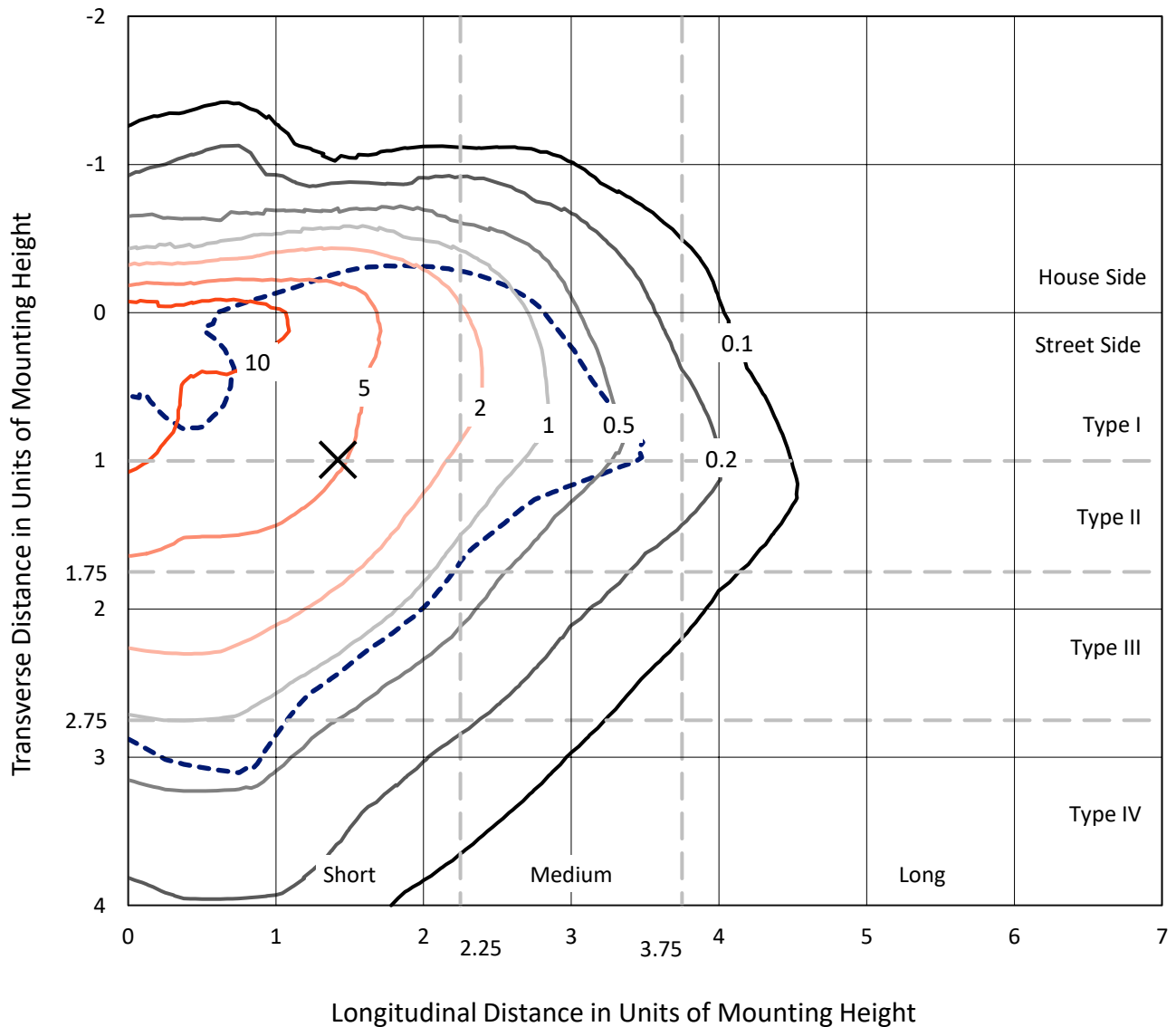
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

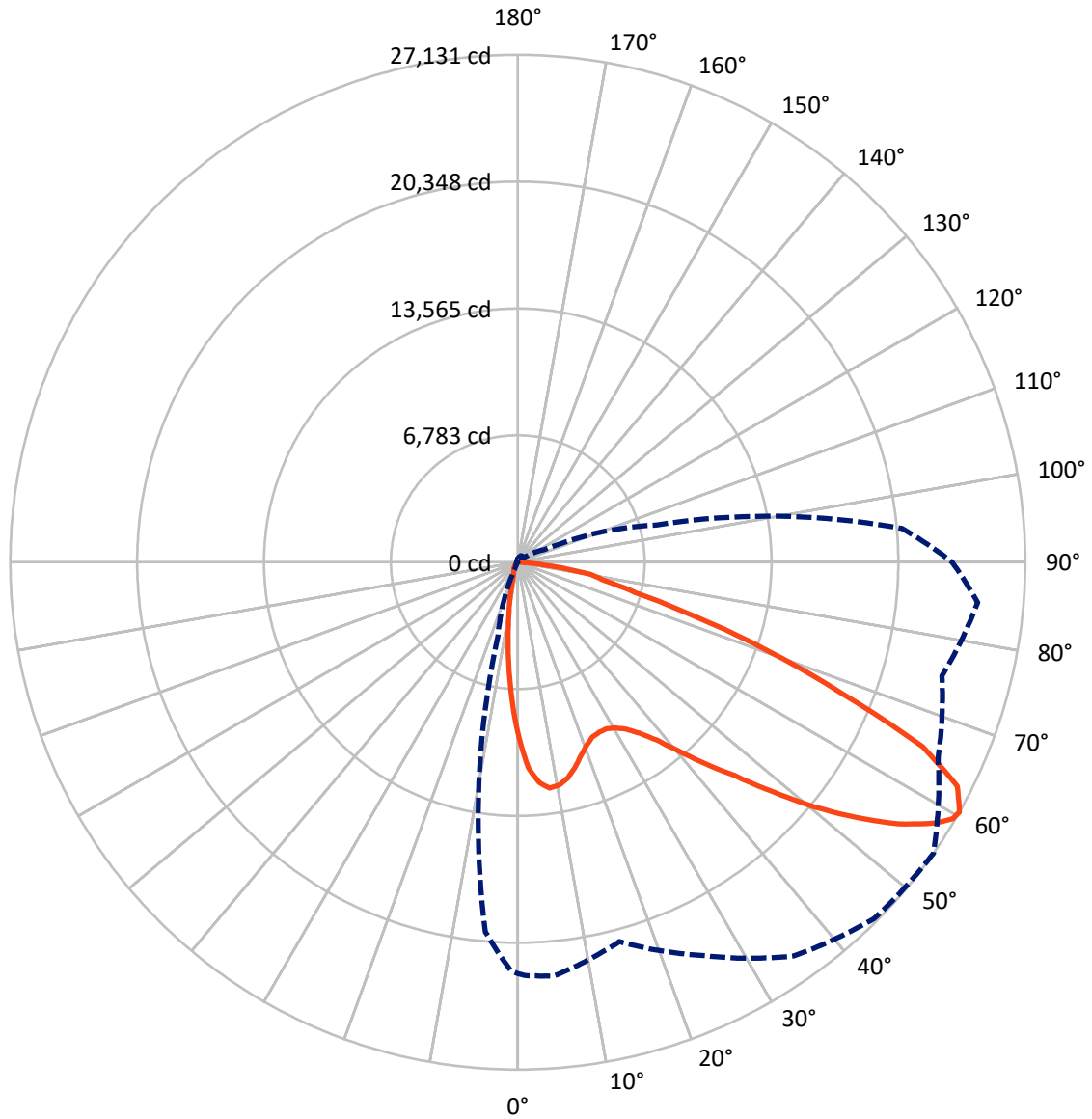
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4129.0	0.0	4129.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23693.0	0.0	23693.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	27822.0	0.0	27822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.6	2.5
10°-20°	1373.7	4.9
20°-30°	2033.4	7.3
30°-40°	3031.0	10.9
40°-50°	4438.9	16.0
50°-60°	6408.3	23.0
60°-70°	6741.2	24.2
70°-80°	2773.1	10.0
80°-90°	324.8	1.2
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°	27822.0	100.0
0°-180°	27822.0	100.0

Coefficient of Utilization



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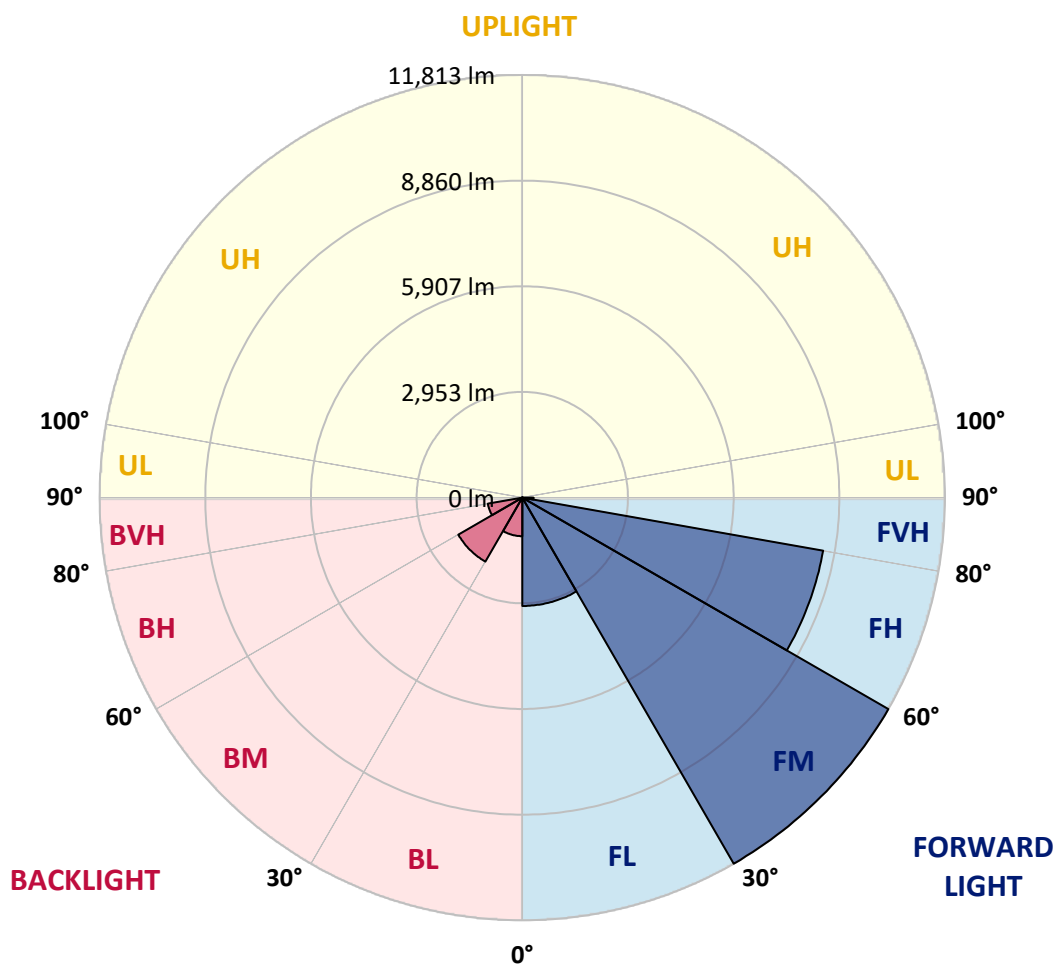
CATALOG NUMBER: GALN-SA5D-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3027.4	10.9			
FM	(30°-60°)	11813.3	42.5			
FH	(60°-80°)	8537.0	30.7			G4/12000
FVH	(80°-90°)	315.2	1.1			G3/500
BL	(0°-30°)	1077.3	3.9	B3/2500		
BM	(30°-60°)	2064.9	7.4	B2/2500		
BH	(60°-80°)	977.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5
2.5°	10292.0	10274.9	10427.0	10675.4	10925.9	11056.6	11030.9	11020.2	10812.4	10660.4	10341.3
5°	10270.6	10358.4	10630.4	11302.8	11812.5	12058.8	12131.6	11825.4	11420.6	10833.8	10110.0
7.5°	9656.0	9765.2	10208.5	11260.0	12165.9	12701.2	12682.0	12191.6	11356.4	10448.4	9416.2
10°	8893.6	9022.1	9542.5	10818.9	11994.5	12701.2	12739.8	12118.7	11080.1	9915.1	8829.4
12.5°	8356.1	8508.2	9084.2	10407.7	11553.4	12249.4	12294.3	11844.6	10872.4	9709.6	8510.3
15°	8174.1	8317.6	8902.2	10200.0	11084.4	11459.2	11448.5	11401.3	10791.0	9758.8	8527.4
17.5°	8486.8	8604.5	9264.1	10294.2	10645.4	10606.8	10662.5	10889.5	10808.1	10172.1	9067.1
20°	9294.1	9414.0	10122.9	10583.3	10309.2	10065.0	10090.7	10469.8	10966.6	10949.5	9910.9
22.5°	10405.5	10609.0	11251.4	11144.4	10264.2	9728.8	9675.3	10167.8	11236.4	11844.6	11050.1
25°	11812.5	12018.1	12519.2	12039.5	10484.8	9649.6	9600.3	10075.8	11564.1	12718.4	12332.9
27.5°	12994.6	13150.9	13649.9	12911.1	10810.3	9683.9	9602.5	10088.6	11829.6	13461.5	13414.3
30°	13941.2	14056.8	14350.2	13318.0	11090.8	9833.8	9739.5	10277.1	11947.4	13823.4	14290.2
32.5°	14703.5	14898.4	14990.5	13752.7	11493.4	10116.4	9955.8	10639.0	12234.4	14270.9	15208.9
35°	15575.1	15800.0	15682.2	14168.2	12024.5	10557.6	10360.6	11225.7	12669.1	14684.3	16275.4
37.5°	16680.1	16939.3	16478.8	14605.0	12585.6	11221.5	11129.4	12050.2	13328.7	15275.3	17418.9
40°	17823.7	17973.6	17251.9	15136.1	13275.1	12187.3	12275.1	13275.1	14191.7	15984.1	18635.3
42.5°	18716.7	18858.0	18046.4	15581.5	13979.7	13333.0	13699.2	14752.8	15181.1	16710.1	19543.3
45°	19399.8	19519.8	18596.8	16067.7	14930.5	14992.6	15684.3	16275.4	16172.6	17153.4	20243.6
47.5°	19930.9	20033.7	19020.8	16590.2	16354.6	17022.8	18080.7	18331.2	17200.5	17633.1	20877.5
50°	20149.4	20179.3	19153.6	17256.2	17971.5	19609.7	20712.6	20560.5	18378.3	18166.3	21552.0
52.5°	20434.2	20427.8	19532.6	17890.1	19491.9	21922.5	23023.3	22678.5	19710.4	18965.1	22310.1
55°	21181.6	21190.1	20344.2	18789.5	20787.5	23789.9	24967.7	24717.2	21115.2	20314.3	23194.6
57.5°	22089.6	22121.7	21498.5	19841.0	22025.3	25143.3	26419.7	26323.3	23014.7	21815.4	24029.8
59°	22207.3	22271.6	22044.6	20581.9	22759.8	25558.8	26916.5	27010.7	24031.9	22804.8	24481.6
60°	21993.2	22100.3	22203.1	21001.7	23190.3	25708.7	26946.5	27130.6	24796.4	23477.2	24687.2
62.5°	21059.5	21228.7	21744.8	22293.0	23727.8	25241.8	25989.2	26374.7	25743.0	25244.0	24706.5
65°	19836.7	19924.5	20669.7	22522.1	22684.9	23061.8	23293.1	23787.8	24605.8	25925.0	23822.0
67.5°	17832.3	18091.4	19003.7	21192.3	19607.6	19162.1	19104.3	18611.8	20736.1	24301.7	21642.0
70°	14731.4	14847.0	15971.3	17374.0	14797.8	14112.5	14386.6	14202.4	16074.1	20920.3	17418.9
72.5°	11140.1	11401.3	12499.9	13849.1	10069.3	9180.6	9936.6	9868.0	12073.8	16812.9	11966.7
75°	7925.7	8094.9	9495.4	10838.1	7052.0	5974.8	6246.8	6501.6	8428.9	13275.1	7071.2
77.5°	5445.8	5591.5	6642.9	7167.6	5143.9	4927.6	4507.9	4754.1	5522.9	7876.4	3848.3
80°	3285.1	3278.6	3970.3	4098.8	3582.7	4160.9	3490.6	3918.9	3338.6	3370.7	1490.5
82.5°	2132.9	2111.5	2428.5	2646.9	1993.7	2096.5	1407.0	2028.0	2175.8	940.1	471.1
85°	955.1	995.8	1167.1	1539.7	873.7	464.7	287.0	623.2	927.3	473.3	0.0
87.5°	98.5	77.1	205.6	374.8	119.9	12.8	42.8	21.4	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°	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5
2.5°	10193.5	10069.3	9698.8	9351.9	9054.3	8690.2	8454.6	8084.2	7859.3	7790.8	7801.5
5°	9784.5	9426.9	8722.3	8159.1	7531.7	7174.0	6630.1	6107.6	5824.9	5719.9	5672.8
7.5°	8927.9	8544.6	7694.4	6810.0	6137.5	5510.1	5105.3	4644.9	4330.1	4071.0	4026.0
10°	8291.9	7788.6	6735.0	5784.2	5253.1	4782.0	4377.2	3916.8	3546.3	3250.8	3169.4
12.5°	7910.7	7347.5	6171.8	5375.2	4871.9	4387.9	3861.1	3327.9	2948.8	2629.8	2482.0
15°	7842.2	7189.0	6013.3	5081.8	4460.7	3876.1	3175.8	2599.8	2210.0	1908.1	1816.0
17.5°	8255.5	7473.8	5989.8	4775.5	3923.2	3094.5	2366.4	1888.8	1449.8	1280.6	1214.2
20°	8992.2	7977.1	5987.6	4420.1	3370.7	2383.5	1661.8	1231.4	1053.6	972.2	933.7
22.5°	9996.5	8662.4	6101.1	4113.8	2796.8	1758.2	1186.4	980.8	878.0	811.6	796.6
25°	11223.6	9677.4	6379.5	3906.1	2357.8	1379.1	978.7	839.5	753.8	723.8	711.0
27.5°	12313.6	10649.7	6685.8	3691.9	2043.0	1220.7	908.0	768.8	700.3	676.7	657.4
30°	13253.7	11532.0	6833.5	3409.3	1790.3	1117.9	920.8	822.3	732.4	661.7	629.6
32.5°	14037.5	12208.7	6929.9	3152.3	1576.1	914.4	728.1	636.0	595.3	569.6	548.2
35°	15018.3	12941.1	6872.1	3006.7	1466.9	833.0	663.9	548.2	479.7	428.3	406.9
37.5°	16046.2	13673.5	6771.4	2886.7	1417.7	773.1	631.7	520.4	445.4	391.9	364.1
40°	17110.6	14352.3	6653.6	2775.4	1372.7	734.5	612.5	496.8	421.9	364.1	334.1
42.5°	18085.0	15014.0	6606.5	2702.6	1299.9	741.0	597.5	486.1	398.3	338.4	312.7
45°	18873.0	15641.5	6670.8	2664.0	1220.7	730.3	601.8	473.3	379.0	321.2	295.5
47.5°	19714.6	16528.1	6878.5	2625.5	1143.6	678.9	633.9	471.1	370.5	310.5	282.7
50°	20693.3	17663.1	7353.9	2531.3	1049.3	623.2	674.6	469.0	359.8	297.7	269.8
52.5°	21997.5	18952.3	7844.3	2366.4	912.3	569.6	644.6	462.6	338.4	282.7	254.8
55°	23168.9	20310.0	8259.8	2171.5	738.8	492.5	580.3	434.7	302.0	257.0	231.3
57.5°	23652.9	21076.6	8246.9	1901.7	591.1	432.6	477.6	398.3	263.4	227.0	205.6
59°	23475.1	20980.3	7970.7	1702.5	539.7	400.5	396.2	394.0	246.3	205.6	188.5
60°	23224.6	20629.1	7673.0	1604.0	507.5	379.0	364.1	389.8	231.3	192.7	175.6
62.5°	22265.2	19172.8	6685.8	1436.9	464.7	321.2	291.2	329.8	205.6	167.0	152.0
65°	20875.3	16935.0	5660.0	1389.8	451.9	265.5	242.0	235.6	175.6	141.3	128.5
67.5°	18164.2	14330.9	4584.9	1357.7	456.1	222.7	212.0	177.7	145.6	117.8	109.2
70°	14542.9	11174.3	3754.0	1321.3	460.4	182.0	177.7	141.3	117.8	98.5	89.9
72.5°	8835.8	6623.7	2955.3	1147.8	447.6	145.6	158.5	107.1	85.7	70.7	66.4
75°	5463.0	4533.6	1833.1	893.0	295.5	107.1	111.4	66.4	57.8	45.0	45.0
77.5°	3165.1	2863.2	655.3	321.2	130.6	64.2	49.3	34.3	32.1	19.3	19.3
80°	1312.7	1051.5	227.0	109.2	70.7	30.0	10.7	2.1	0.0	0.0	0.0
82.5°	383.3	340.5	62.1	49.3	21.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5
2.5°	7619.5	7548.8	7516.7	7625.9	7525.2	7653.7	7555.2	7598.0	7724.4	7780.1	7923.5
5°	5702.8	5630.0	5595.7	5760.6	5752.1	5833.4	5824.9	5899.8	5964.1	5820.6	5968.4
7.5°	3972.5	3923.2	4004.6	4133.1	4270.1	4225.2	4225.2	4124.5	4158.8	4137.4	4131.0
10°	3021.7	2852.5	2809.6	2805.4	2856.8	2867.5	2809.6	2670.4	2721.8	2736.8	2826.8
12.5°	2377.1	2246.4	2047.3	1957.3	1933.8	1953.0	1762.5	1640.4	1698.2	1663.9	1751.7
15°	1704.6	1597.6	1479.8	1379.1	1351.3	1312.7	1105.0	959.4	942.3	948.7	963.7
17.5°	1216.4	1143.6	1143.6	1036.5	978.7	863.0	758.1	693.8	687.4	693.8	704.6
20°	897.3	858.7	854.5	826.6	762.4	685.3	612.5	599.6	595.3	606.0	610.3
22.5°	773.1	732.4	698.1	696.0	636.0	571.8	537.5	520.4	522.5	526.8	537.5
25°	691.7	648.9	612.5	591.1	548.2	503.3	471.1	462.6	462.6	469.0	471.1
27.5°	633.9	580.3	548.2	518.2	479.7	441.1	413.3	406.9	402.6	406.9	417.6
30°	593.2	539.7	499.0	454.0	424.0	387.6	364.1	355.5	353.3	355.5	364.1
32.5°	507.5	475.4	443.3	402.6	366.2	342.6	316.9	302.0	302.0	306.2	314.8
35°	383.3	366.2	364.1	353.3	323.4	297.7	267.7	252.7	252.7	261.3	265.5
37.5°	338.4	306.2	302.0	297.7	284.8	250.6	222.7	209.9	207.7	214.1	222.7
40°	308.4	272.0	252.7	248.4	250.6	212.0	182.0	169.2	169.2	171.3	179.9
42.5°	284.8	242.0	207.7	203.4	212.0	177.7	147.8	134.9	134.9	134.9	145.6
45°	265.5	216.3	175.6	154.2	167.0	145.6	119.9	107.1	102.8	107.1	111.4
47.5°	252.7	197.0	154.2	124.2	124.2	115.6	96.4	81.4	77.1	79.2	85.7
50°	242.0	179.9	130.6	100.7	89.9	92.1	72.8	62.1	57.8	57.8	64.2
52.5°	224.9	162.8	113.5	85.7	68.5	62.1	53.5	45.0	42.8	45.0	49.3
55°	203.4	147.8	98.5	70.7	53.5	42.8	38.5	32.1	30.0	32.1	38.5
57.5°	179.9	124.2	79.2	55.7	36.4	27.8	25.7	21.4	17.1	19.3	23.6
59°	164.9	111.4	68.5	45.0	27.8	19.3	19.3	15.0	10.7	12.8	19.3
60°	158.5	102.8	57.8	38.5	23.6	15.0	15.0	10.7	6.4	8.6	15.0
62.5°	134.9	85.7	45.0	23.6	10.7	2.1	6.4	2.1	0.0	2.1	6.4
65°	113.5	68.5	30.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	94.2	51.4	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	75.0	34.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	51.4	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P454668

CATALOG NUMBER: GALN-SA5D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5	9420.5
2.5°	7932.1	8238.3	8426.8	8782.3	9146.3	9426.9	9778.1	10092.9	10223.5	10292.0
5°	6118.3	6544.4	6906.3	7448.1	7951.4	8563.9	9184.9	9917.3	10197.8	10270.6
7.5°	4293.7	4728.4	5107.5	5734.9	6452.3	7272.5	8201.9	9131.3	9540.4	9656.0
10°	3100.9	3565.6	4028.2	4655.6	5325.9	6214.6	7182.6	8332.6	8803.7	8893.6
12.5°	1957.3	2456.3	3208.0	3983.2	4692.0	5407.3	6420.2	7670.8	8191.2	8356.1
15°	1135.0	1507.6	2075.1	3085.9	3987.5	4934.0	6039.0	7422.4	8004.9	8174.1
17.5°	760.2	888.7	1278.5	2051.6	3242.2	4497.1	5942.7	7625.9	8270.5	8486.8
20°	640.3	698.1	835.2	1250.6	2497.0	4107.4	5968.4	8178.4	9024.3	9294.1
22.5°	563.2	616.8	704.6	899.4	1743.2	3623.4	6090.4	8968.6	10060.8	10405.5
25°	496.8	550.4	627.5	745.2	1171.4	3064.5	6358.1	10125.0	11433.5	11812.5
27.5°	441.1	490.4	556.8	657.4	901.6	2441.3	6595.8	11251.4	12686.2	12994.6
30°	389.8	430.4	494.7	571.8	749.5	1882.4	6715.7	12236.5	13598.5	13941.2
32.5°	338.4	376.9	439.0	501.1	616.8	1434.8	6632.2	12960.3	14485.1	14703.5
35°	289.1	329.8	381.2	439.0	533.2	1158.6	6214.6	13774.1	15403.8	15575.1
37.5°	248.4	282.7	336.2	381.2	481.8	927.3	5709.2	14506.5	16433.9	16680.1
40°	209.9	244.1	297.7	338.4	443.3	730.3	5253.1	15320.3	17519.6	17823.7
42.5°	171.3	212.0	259.1	325.5	381.2	556.8	4700.6	15979.9	18335.5	18716.7
45°	137.1	182.0	233.4	323.4	331.9	424.0	4167.4	16493.8	19057.2	19399.8
47.5°	109.2	154.2	224.9	302.0	272.0	336.2	3863.3	17031.3	19656.8	19930.9
50°	87.8	128.5	235.6	265.5	227.0	284.8	3854.7	17631.0	19967.3	20149.4
52.5°	70.7	104.9	199.2	203.4	192.7	250.6	4086.0	18305.5	20284.3	20434.2
55°	60.0	87.8	130.6	149.9	173.5	227.0	4259.4	19344.2	21040.2	21181.6
57.5°	47.1	75.0	100.7	119.9	154.2	207.7	4283.0	20145.1	21997.5	22089.6
59°	40.7	64.2	89.9	107.1	141.3	194.9	4186.6	20194.3	22059.6	22207.3
60°	34.3	57.8	79.2	100.7	130.6	184.2	4081.7	19836.7	21828.3	21993.2
62.5°	25.7	45.0	57.8	81.4	107.1	158.5	3584.9	18588.2	20943.9	21059.5
65°	17.1	32.1	42.8	60.0	83.5	137.1	2921.0	16969.2	19577.6	19836.7
67.5°	10.7	23.6	34.3	45.0	68.5	115.6	2081.5	14551.5	17665.2	17832.3
70°	6.4	15.0	25.7	36.4	53.5	92.1	1235.6	11502.0	14697.1	14731.4
72.5°	4.3	10.7	17.1	25.7	42.8	83.5	599.6	7497.4	10731.0	11140.1
75°	2.1	6.4	10.7	19.3	34.3	68.5	287.0	5009.0	7807.9	7925.7
77.5°	0.0	2.1	6.4	12.8	25.7	53.5	167.0	3289.3	5323.8	5445.8
80°	0.0	0.0	4.3	10.7	19.3	34.3	100.7	1940.2	3225.1	3285.1
82.5°	0.0	0.0	2.1	8.6	12.8	25.7	51.4	852.3	2111.5	2132.9
85°	0.0	0.0	2.1	8.6	10.7	17.1	19.3	115.6	938.0	955.1
87.5°	0.0	0.0	2.1	10.7	10.7	10.7	10.7	6.4	79.2	98.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)