

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: P534319

Luminaire Tested: **GALN-SA9D-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

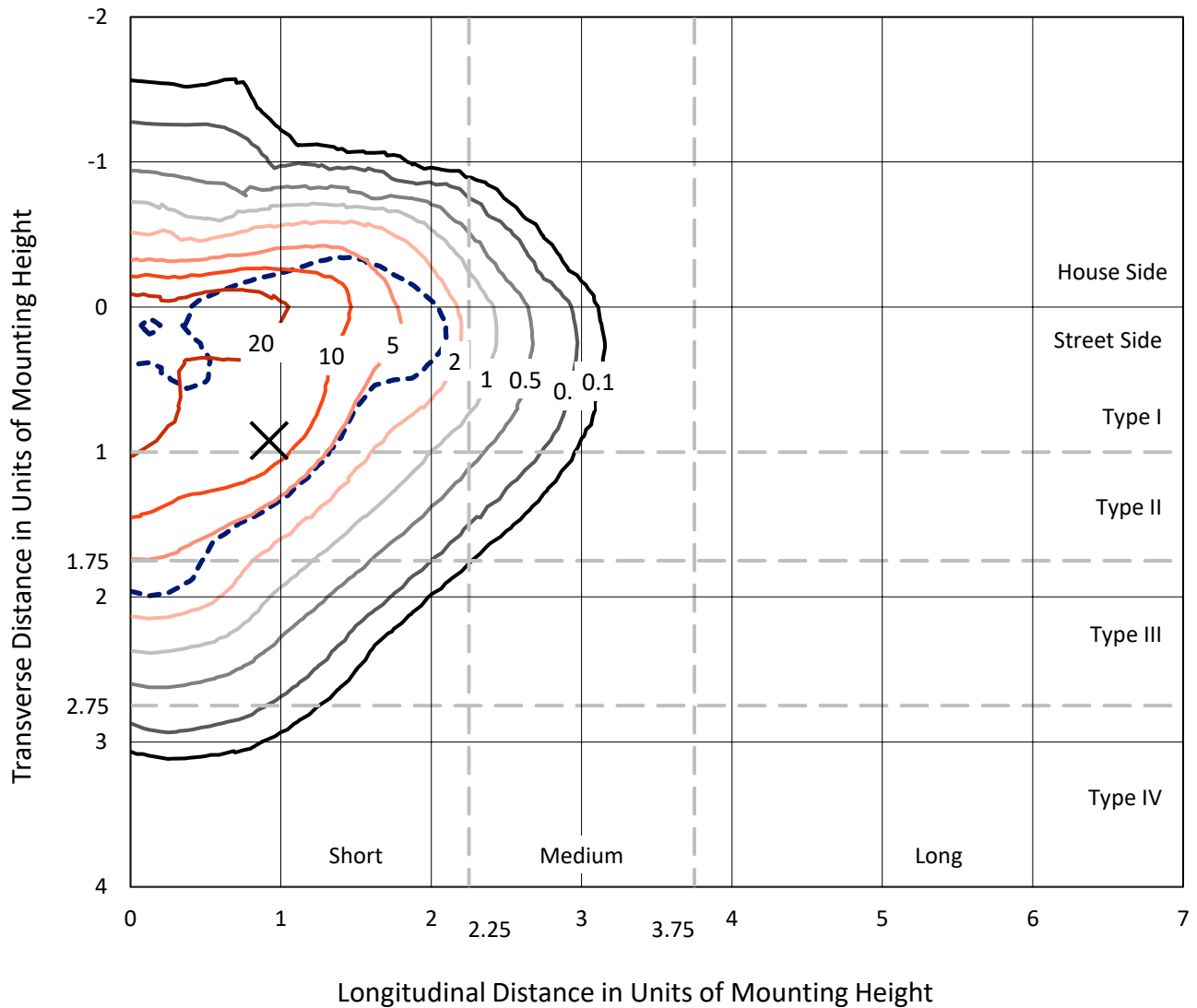
Lumens per Lamp: N/A  
Luminaire Lumens: 38770 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

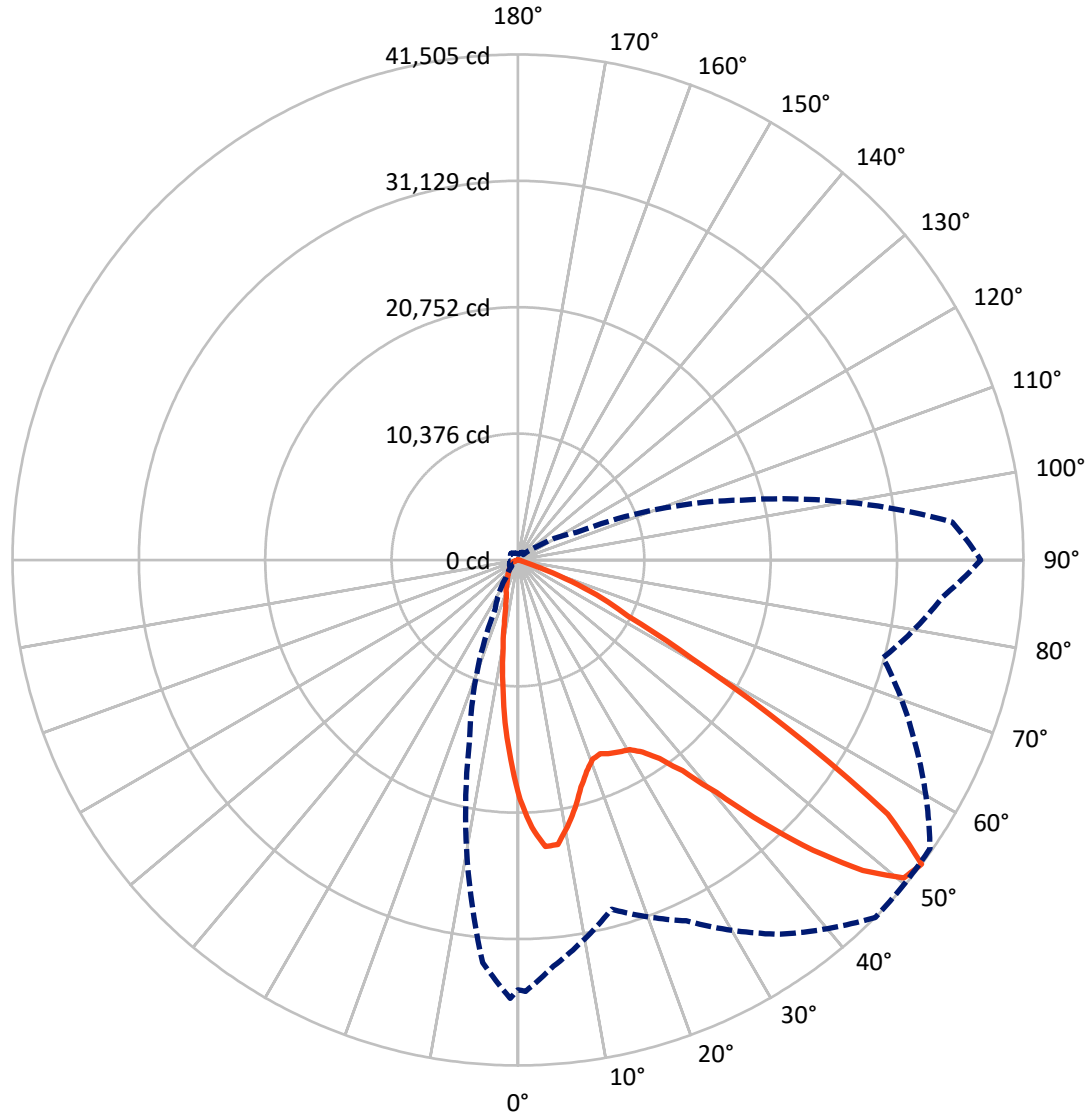
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7868.4	0.0	7868.4
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	30901.6	0.0	30901.6
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	38770.0	0.0	38770.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1433.6	3.7
10°-20°	2828.5	7.3
20°-30°	4304.5	11.1
30°-40°	6433.6	16.6
40°-50°	9162.1	23.6
50°-60°	9849.0	25.4
60°-70°	4364.3	11.3
70°-80°	353.1	0.9
80°-90°	41.2	0.1
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°	38770.0	100.0
0°-180°	38770.0	100.0

**Coefficient of Utilization**

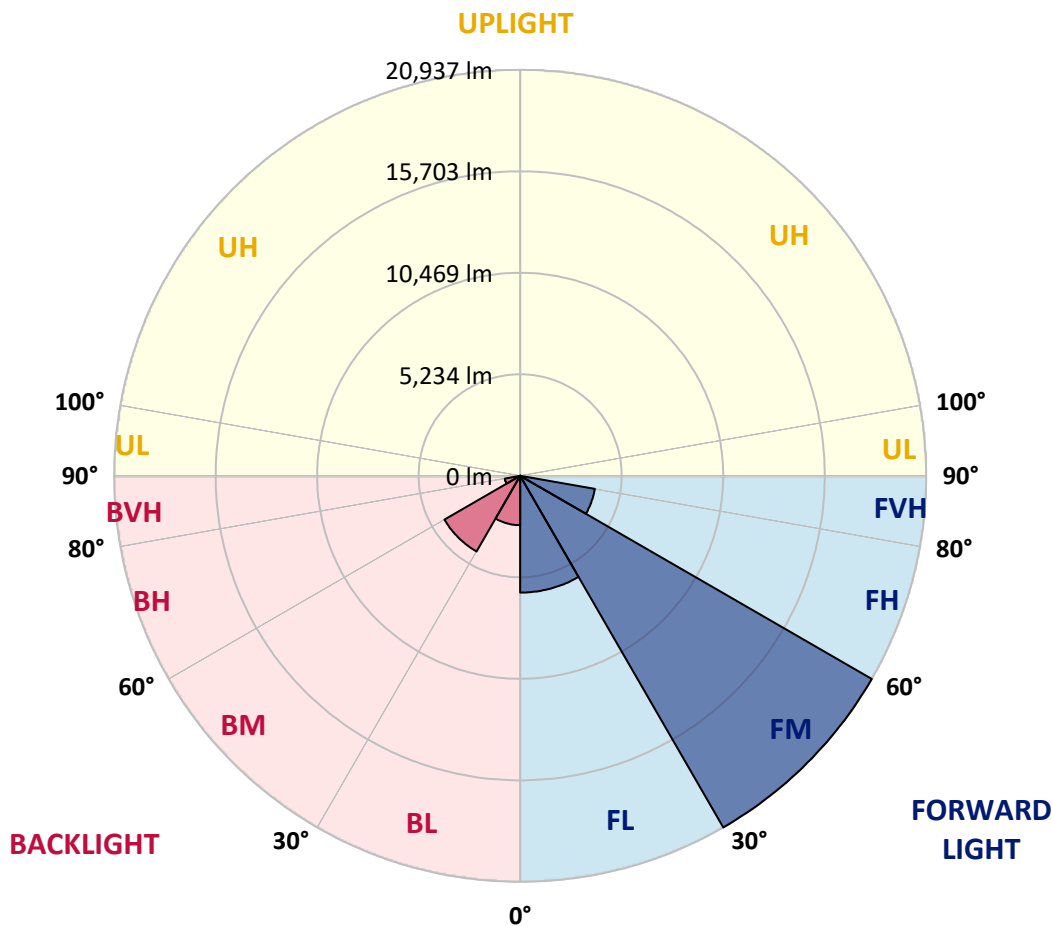


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6021.8	15.5			
FM (30°-60°)	20937.0	54.0			
FH (60°-80°)	3912.4	10.1			G2/5000
FVH (80°-90°)	30.5	0.1			G1/100
BL (0°-30°)	2544.9	6.6	B4/5000		
BM (30°-60°)	4507.7	11.6	B3/5000		
BH (60°-80°)	805.1	2.1	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2
2.5°	20802.0	20863.0	21198.5	21617.9	21839.0	22342.3	21991.6	22083.1	21892.4	21221.4	20695.2
5°	20169.1	20161.5	20588.5	21625.5	22609.2	23608.1	23638.6	23104.9	22166.9	21137.5	19665.8
7.5°	18262.8	18560.1	19002.4	20657.1	22479.6	23226.9	23585.3	22960.0	21518.8	20047.1	18453.4
10°	16821.6	16974.1	17721.3	19719.2	21053.6	22052.6	22273.7	21915.3	20809.6	18971.9	17187.6
12.5°	15990.4	16066.6	16943.6	18621.1	20031.8	20771.5	20878.3	21046.0	20253.0	18529.6	16386.9
15°	15998.0	16059.0	17241.0	18644.0	19200.7	19002.4	19353.2	19345.6	19688.7	18445.8	17057.9
17.5°	17149.4	17218.1	18285.6	18979.5	18735.5	18270.4	18247.5	18598.3	19322.7	19490.4	18072.1
20°	19132.0	19292.2	20077.6	20039.5	18666.9	17729.0	17469.7	17736.6	19421.8	20375.0	20115.7
22.5°	21800.9	22022.1	22571.1	21518.8	18979.5	17363.0	17279.1	17797.6	20077.6	22349.9	22433.8
25°	24896.8	25270.5	25537.3	24187.7	20092.8	17995.9	17599.3	18491.5	20962.1	24492.7	25384.8
27.5°	26948.0	27336.9	27275.9	25346.7	20840.1	18163.6	17828.1	18659.3	21732.3	25003.6	26925.2
30°	28549.4	28785.8	29212.8	25972.0	21587.4	18636.4	18064.5	19368.4	21983.9	25888.1	28785.8
32.5°	30417.6	30577.7	30608.2	27077.7	22738.8	19231.2	18796.5	20253.0	23097.2	26734.5	30432.8
35°	32301.0	32537.4	32041.8	28442.6	23448.0	20336.8	20016.6	21785.7	23989.4	27611.4	32247.7
37.5°	34344.6	34466.7	33322.8	29006.9	24462.2	22136.4	21961.1	23440.4	25537.3	29197.5	34260.8
40°	36060.4	36174.7	34687.8	29700.8	25529.7	24652.8	25102.7	26597.3	27641.9	30226.9	35267.3
42.5°	37013.5	37280.4	35145.3	29319.5	27672.5	27504.7	29502.5	30028.7	30082.1	30516.7	36167.1
45°	37272.8	37150.8	34390.4	29632.2	29548.3	32194.3	34009.1	34703.0	32506.9	31050.5	36395.9
47.5°	36075.6	36235.7	33277.1	29357.7	32011.3	35747.7	38096.3	39385.0	34314.1	30585.3	35831.6
50°	35107.2	34901.3	32918.7	29159.4	32674.7	37425.3	41047.3	41337.1	35976.5	31157.2	35213.9
52.5°	35297.8	35427.4	33490.6	29685.5	32689.9	37524.4	41504.9	41306.6	36029.9	31027.6	34992.8
55°	35702.0	35130.1	33246.6	28526.5	30501.5	34756.4	36838.1	36533.1	33254.2	29647.4	34451.4
57.5°	30806.5	31691.0	30570.1	25468.7	25034.1	26185.5	26147.4	27085.3	24805.3	25514.5	31363.1
60°	25003.6	25156.1	25575.5	21785.7	17324.8	16928.3	16379.3	15784.5	16691.9	21816.2	28526.5
62.5°	21991.6	21808.5	23303.1	19818.3	12231.1	10240.9	10149.4	10515.4	12879.2	20809.6	26757.4
65°	15982.8	16211.5	17294.3	15380.4	9180.9	7816.0	7678.7	8761.5	10423.9	16676.7	20420.7
67.5°	9760.5	10202.7	10301.9	9486.0	6229.9	4948.9	4750.6	5734.3	7526.2	10789.9	11971.8
70°	4506.6	5040.4	5543.6	5177.6	3606.8	2036.0	1921.6	2409.6	3797.4	6207.0	6351.9
72.5°	1364.9	1372.6	1921.6	2005.5	1166.7	457.5	404.1	533.8	1288.7	2051.2	2158.0
75°	99.1	106.8	259.3	297.4	221.1	114.4	122.0	144.9	274.5	457.5	343.1
77.5°	7.6	7.6	7.6	38.1	68.6	76.3	99.1	114.4	144.9	167.8	152.5
80°	7.6	0.0	7.6	30.5	53.4	76.3	91.5	106.8	114.4	129.6	114.4
82.5°	0.0	0.0	0.0	22.9	53.4	76.3	83.9	114.4	129.6	152.5	129.6
85°	0.0	0.0	0.0	22.9	53.4	83.9	76.3	38.1	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2
2.5°	20786.7	20489.4	19810.7	19467.6	18659.3	18544.9	17751.9	17622.2	17355.3	17210.4	16859.7
5°	19017.7	18659.3	17553.6	16623.3	15540.5	14785.6	14206.1	13679.9	13374.9	13092.8	13222.4
7.5°	17576.5	16531.8	15304.1	13748.5	12498.0	11689.7	10805.1	10080.7	9653.7	9363.9	9432.6
10°	16066.6	15388.0	13679.9	11933.7	10423.9	9852.0	9158.1	8601.4	7999.0	7480.5	7236.5
12.5°	15593.9	14587.3	12444.6	10667.9	9524.1	8967.4	8174.4	7533.9	6763.7	6130.8	5909.7
15°	15677.8	14709.3	12109.1	10210.4	8860.7	7899.9	6954.3	6161.3	5314.9	4872.6	4643.8
17.5°	17042.7	15365.1	12330.2	9730.0	7938.0	6603.6	5436.9	4430.3	3797.4	3339.9	3240.8
20°	18720.3	16783.4	12803.0	9379.2	7183.1	5253.9	3972.8	3103.5	2577.4	2501.1	2478.2
22.5°	21175.6	19101.5	13817.2	9142.8	6260.4	4094.8	2722.3	2257.1	2112.2	2097.0	2104.6
25°	24607.1	22006.8	14922.8	8944.6	5566.5	3156.9	2226.6	1914.0	1868.2	1845.3	1883.5
27.5°	26094.0	23760.6	15510.0	8517.5	4933.6	2844.3	2196.1	1898.7	1769.1	1731.0	1753.8
30°	27931.7	24927.3	16432.7	7785.5	4003.3	2341.0	2051.2	2066.5	2005.5	1814.8	1753.8
32.5°	30371.8	26383.8	16897.8	7267.0	3576.3	1936.8	1502.2	1380.2	1540.3	1570.8	1624.2
35°	31935.0	27863.1	17134.2	6962.0	3355.2	1654.7	1273.4	1159.1	1120.9	1128.6	1159.1
37.5°	34840.3	29860.9	17431.6	6641.7	3187.4	1441.2	1151.4	1044.7	991.3	991.3	1021.8
40°	36578.9	31447.0	17835.7	6466.3	3019.6	1311.6	1044.7	953.2	907.4	907.4	922.7
42.5°	37013.5	32232.4	17698.5	6405.3	2829.0	1281.1	953.2	884.5	831.2	823.5	815.9
45°	37791.3	33429.6	17721.3	6336.7	2630.8	1166.7	899.8	823.5	747.3	739.7	732.0
47.5°	38645.4	34291.3	17767.1	6069.8	2440.1	976.0	937.9	762.5	671.0	655.8	655.8
50°	37913.3	34977.6	18163.6	5802.9	2196.1	793.0	922.7	716.8	594.8	571.9	579.5
52.5°	38004.8	35785.8	19002.4	5429.3	1891.1	632.9	747.3	678.7	541.4	503.3	510.9
55°	36540.8	34931.8	19116.8	5032.7	1479.3	488.0	571.9	594.8	457.5	442.3	442.3
57.5°	31454.6	29578.8	16867.3	4079.6	976.0	404.1	411.8	518.5	396.5	381.3	388.9
60°	26917.5	23745.4	13573.2	2691.8	610.0	320.3	297.4	526.2	350.8	343.1	366.0
62.5°	24538.4	19513.3	10294.2	1670.0	419.4	244.0	205.9	427.0	305.0	305.0	335.5
65°	17729.0	13108.0	5985.9	876.9	297.4	190.6	152.5	244.0	251.6	259.3	274.5
67.5°	10980.5	6618.8	2524.0	427.0	198.3	129.6	99.1	152.5	167.8	167.8	183.0
70°	5421.6	2638.4	838.8	244.0	152.5	106.8	68.6	83.9	83.9	76.3	83.9
72.5°	1677.6	793.0	213.5	152.5	106.8	68.6	38.1	30.5	15.3	0.0	7.6
75°	190.6	152.5	137.3	106.8	68.6	30.5	7.6	0.0	0.0	0.0	0.0
77.5°	114.4	129.6	129.6	106.8	68.6	22.9	0.0	0.0	0.0	0.0	0.0
80°	91.5	99.1	106.8	99.1	61.0	30.5	0.0	0.0	0.0	0.0	0.0
82.5°	114.4	129.6	144.9	129.6	83.9	38.1	15.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	22.9	7.6	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°	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2
2.5°	16714.8	16547.0	16783.4	16432.7	16425.0	16432.7	16333.5	16242.0	16386.9	16775.8	16813.9
5°	12757.2	13115.6	13230.0	13603.7	13397.8	13092.8	13153.8	12947.9	13451.1	13672.3	13496.9
7.5°	9287.7	9264.8	10035.0	10080.7	10179.9	10187.5	10172.2	9768.1	9356.3	9447.8	9722.3
10°	7206.0	6817.1	7190.7	7152.6	7396.6	7328.0	7427.1	6992.5	7137.3	7137.3	7312.7
12.5°	5871.5	5459.8	5391.1	5292.0	5391.1	5429.3	5467.4	5383.5	5627.5	5741.9	5863.9
15°	4483.7	4255.0	4194.0	4003.3	4033.8	4140.6	4232.1	4270.2	4194.0	4369.3	4384.6
17.5°	3256.0	3248.4	3286.5	3278.9	3248.4	3225.5	3217.9	3118.8	3088.3	3103.5	3164.5
20°	2470.6	2531.6	2661.3	2790.9	2859.5	2775.6	2661.3	2493.5	2424.9	2440.1	2447.7
22.5°	2112.2	2203.7	2379.1	2524.0	2592.6	2440.1	2234.2	2089.4	2058.8	2051.2	2043.6
25°	1914.0	2020.7	2150.4	2196.1	2188.5	2097.0	1944.5	1883.5	1868.2	1853.0	1784.3
27.5°	1807.2	1845.3	1868.2	1921.6	1944.5	1883.5	1845.3	1753.8	1738.6	1738.6	1692.8
30°	1746.2	1723.3	1753.8	1715.7	1746.2	1700.5	1708.1	1708.1	1670.0	1685.2	1685.2
32.5°	1624.2	1631.8	1631.8	1555.6	1578.5	1525.1	1578.5	1624.2	1631.8	1639.5	1700.5
35°	1189.6	1326.8	1395.4	1395.4	1418.3	1380.2	1372.6	1319.2	1250.6	1181.9	1151.4
37.5°	1044.7	1098.1	1189.6	1242.9	1281.1	1250.6	1181.9	1098.1	1059.9	1029.4	998.9
40°	930.3	976.0	1037.0	1098.1	1174.3	1136.2	1029.4	991.3	945.5	945.5	915.0
42.5°	838.8	861.7	899.8	991.3	1075.2	998.9	922.7	892.2	869.3	861.7	854.0
45°	754.9	762.5	800.7	876.9	976.0	899.8	823.5	785.4	793.0	800.7	793.0
47.5°	678.7	693.9	716.8	808.3	869.3	831.2	747.3	724.4	724.4	724.4	732.0
50°	587.2	625.3	671.0	747.3	793.0	770.2	701.5	671.0	655.8	655.8	663.4
52.5°	526.2	556.7	617.7	709.2	770.2	732.0	663.4	617.7	587.2	579.5	594.8
55°	457.5	510.9	610.0	678.7	762.5	724.4	648.2	594.8	541.4	533.8	533.8
57.5°	411.8	495.6	587.2	671.0	739.7	709.2	648.2	579.5	510.9	503.3	503.3
60°	388.9	480.4	571.9	648.2	739.7	693.9	640.5	564.3	488.0	488.0	480.4
62.5°	366.0	449.9	541.4	617.7	709.2	671.0	617.7	541.4	465.1	465.1	449.9
65°	305.0	388.9	449.9	518.5	617.7	579.5	526.2	472.8	411.8	396.5	404.1
67.5°	213.5	266.9	327.9	396.5	457.5	442.3	419.4	381.3	327.9	320.3	312.6
70°	106.8	144.9	198.3	266.9	320.3	305.0	289.8	259.3	228.8	221.1	221.1
72.5°	15.3	45.8	83.9	122.0	167.8	175.4	167.8	160.1	152.5	144.9	152.5
75°	0.0	0.0	0.0	30.5	68.6	83.9	99.1	114.4	114.4	99.1	122.0
77.5°	0.0	0.0	0.0	0.0	7.6	38.1	76.3	99.1	122.0	106.8	144.9
80°	0.0	0.0	0.0	0.0	7.6	45.8	76.3	106.8	122.0	106.8	152.5
82.5°	0.0	0.0	0.0	0.0	7.6	53.4	76.3	99.1	114.4	106.8	137.3
85°	0.0	0.0	0.0	0.0	22.9	45.8	30.5	15.3	7.6	7.6	22.9
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: P534319

CATALOG NUMBER: GALN-SA9D-740-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2	19658.2
2.5°	17027.4	17568.8	18148.4	18369.5	19055.8	19574.3	19925.1	20680.0	20794.4	20802.0
5°	13679.9	13954.4	14945.7	15410.9	16432.7	17225.7	18072.1	19292.2	20108.1	20169.1
7.5°	9722.3	10484.9	10904.3	12116.7	13374.9	14617.8	15876.0	17294.3	18239.9	18262.8
10°	7823.6	8319.3	9066.6	9974.0	11033.9	12299.7	13977.3	15624.4	16585.2	16821.6
12.5°	6298.6	7167.8	8021.9	8959.8	9768.1	10721.3	12528.5	14724.6	15517.6	15990.4
15°	4849.7	5642.8	6649.3	7747.4	8662.4	9935.9	11994.7	14503.4	15837.9	15998.0
17.5°	3576.3	4285.5	5215.7	6252.8	7625.4	9432.6	12086.2	15624.4	16882.6	17149.4
20°	2569.7	2981.5	3713.6	4918.4	6664.6	8845.4	12177.7	16760.6	18674.5	19132.0
22.5°	2036.0	2203.7	2684.1	3751.7	5589.4	8227.8	12825.9	18933.8	21137.5	21800.9
25°	1769.1	1860.6	2089.4	2958.6	4910.7	8166.8	13862.9	21541.7	24416.4	24896.8
27.5°	1708.1	1723.3	1921.6	2714.6	4544.7	7762.6	14259.4	23394.6	26460.0	26948.0
30°	1799.6	2043.6	2058.8	2295.2	3866.1	6962.0	14465.3	25186.6	28191.0	28549.4
32.5°	1555.6	1479.3	1532.7	1776.7	3400.9	6496.8	14854.2	26749.8	30165.9	30417.6
35°	1082.8	1136.2	1258.2	1540.3	2973.9	6008.8	14953.3	28473.1	32041.8	32301.0
37.5°	998.9	1029.4	1128.6	1311.6	2615.5	5734.3	14816.1	29731.3	33986.3	34344.6
40°	930.3	968.4	1021.8	1189.6	2348.6	5429.3	14625.5	30867.5	35175.8	36060.4
42.5°	876.9	907.4	953.2	1136.2	2119.9	5124.2	14358.6	32468.8	36243.4	37013.5
45°	815.9	861.7	915.0	1105.7	1990.2	4918.4	14160.3	32369.7	36861.0	37272.8
47.5°	754.9	831.2	892.2	1029.4	1952.1	4819.2	14244.2	31996.0	36357.7	36075.6
50°	693.9	793.0	899.8	854.0	1860.6	4621.0	14343.3	32506.9	35160.6	35107.2
52.5°	640.5	754.9	838.8	701.5	1654.7	4430.3	15304.1	33178.0	36007.0	35297.8
55°	564.3	678.7	671.0	564.3	1342.1	4285.5	16059.0	33193.2	35435.1	35702.0
57.5°	510.9	602.4	526.2	472.8	991.3	3583.9	14831.3	27832.6	30333.7	30806.5
60°	472.8	587.2	396.5	373.6	648.2	2585.0	12947.9	21556.9	24111.4	25003.6
62.5°	434.6	556.7	312.6	305.0	449.9	1837.7	10645.0	18041.6	20779.1	21991.6
65°	381.3	396.5	251.6	236.4	320.3	991.3	6481.6	12421.7	15532.9	15982.8
67.5°	312.6	305.0	205.9	190.6	213.5	480.4	2859.5	6222.3	9005.6	9760.5
70°	251.6	251.6	175.4	152.5	152.5	221.1	747.3	2478.2	4071.9	4506.6
72.5°	183.0	190.6	137.3	122.0	114.4	106.8	122.0	495.6	1067.6	1364.9
75°	160.1	167.8	137.3	106.8	83.9	68.6	53.4	45.8	61.0	99.1
77.5°	175.4	175.4	144.9	99.1	76.3	53.4	30.5	15.3	15.3	7.6
80°	221.1	228.8	190.6	129.6	91.5	61.0	38.1	15.3	7.6	7.6
82.5°	236.4	259.3	213.5	160.1	114.4	68.6	38.1	7.6	0.0	0.0
85°	61.0	99.1	167.8	144.9	114.4	68.6	38.1	7.6	0.0	0.0
87.5°	0.0	7.6	22.9	22.9	30.5	30.5	22.9	7.6	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)