

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: P457684

Luminaire Tested: **GALN-SA9A-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457684
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-SA9A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 29773 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

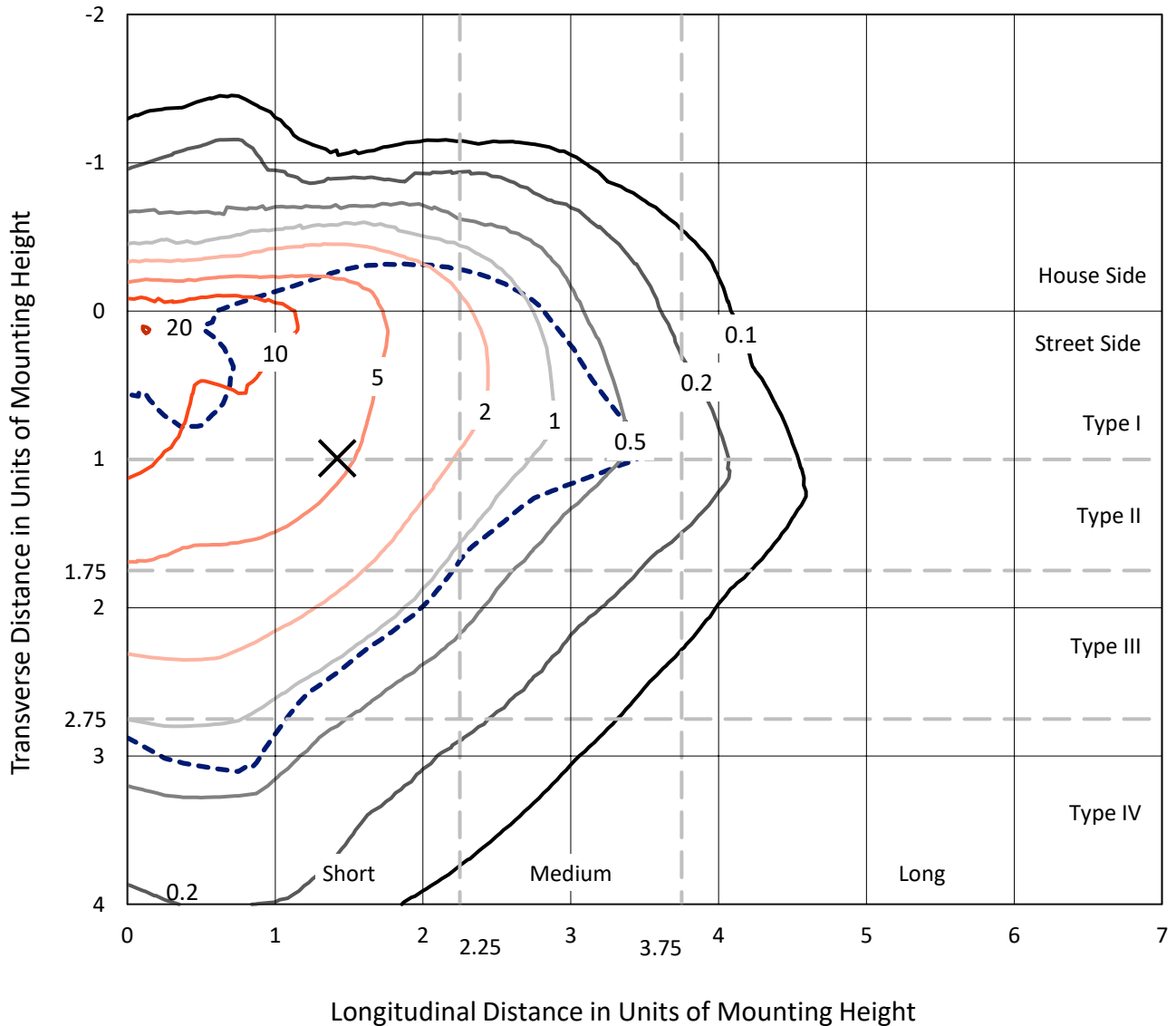
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457684
 CATALOG NUMBER: GALN-SA9A-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

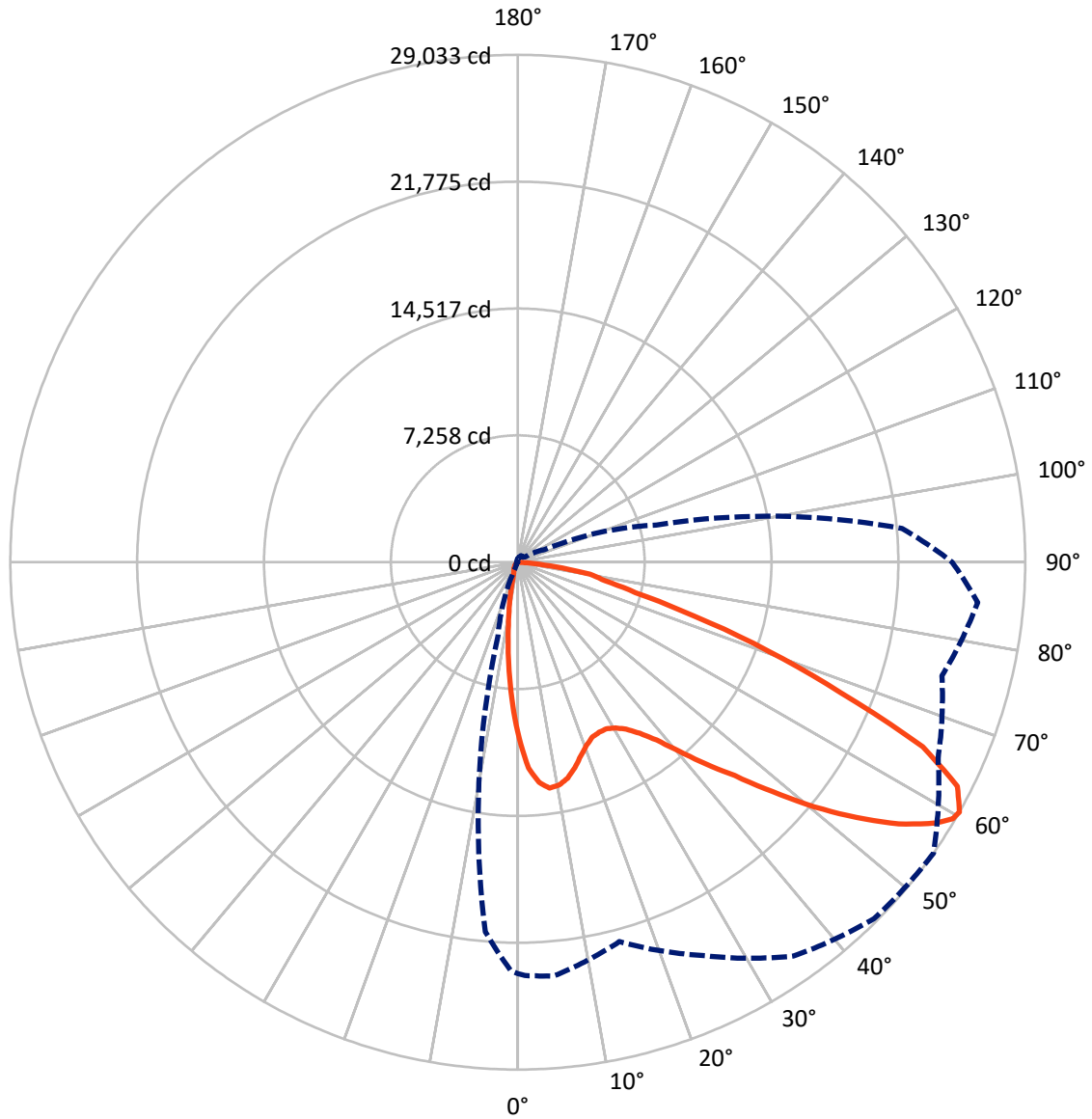
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Short - N/A

REPORT NUMBER: P457684
CATALOG NUMBER: GALN-SA9A-740-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457684

CATALOG NUMBER: GALN-SA9A-740-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4418.6	0.0	4418.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	25354.4	0.0	25354.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	29773.0	0.0	29773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.5	2.5
10°-20°	1470.1	4.9
20°-30°	2176.0	7.3
30°-40°	3243.5	10.9
40°-50°	4750.1	16.0
50°-60°	6857.7	23.0
60°-70°	7214.0	24.2
70°-80°	2967.6	10.0
80°-90°	347.6	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°	29773.0	100.0
0°-180°	29773.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457684

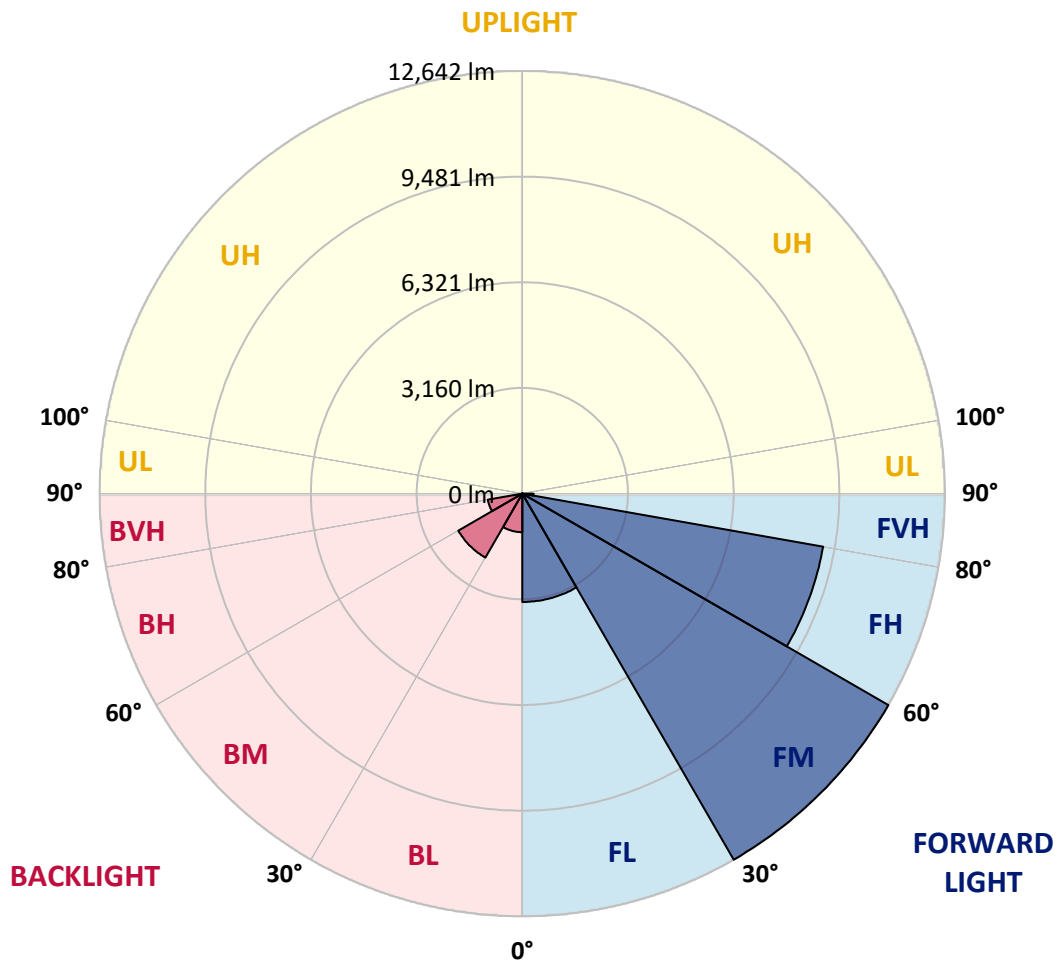
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3239.7	10.9			
FM	(30°-60°)	12641.7	42.5			
FH	(60°-80°)	9135.7	30.7			G4/12000
FVH	(80°-90°)	337.3	1.1			G3/500
BL	(0°-30°)	1152.8	3.9	B3/2500		
BM	(30°-60°)	2209.7	7.4	B2/2500		
BH	(60°-80°)	1045.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.2	0.0			G1/100
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





REPORT NUMBER: P457684

CATALOG NUMBER: GALN-SA9A-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1
2.5°	11013.8	10995.4	11158.1	11424.0	11692.1	11831.9	11804.4	11792.9	11570.6	11407.9	11066.5
5°	10990.8	11084.8	11375.8	12095.4	12640.9	12904.4	12982.3	12654.6	12221.5	11593.6	10819.0
7.5°	10333.1	10450.0	10924.4	12049.6	13019.0	13591.9	13571.3	13046.5	12152.7	11181.1	10076.5
10°	9517.3	9654.8	10211.7	11577.5	12835.6	13591.9	13633.1	12968.6	11857.1	10610.4	9448.6
12.5°	8942.1	9104.8	9721.3	11137.5	12363.6	13108.4	13156.5	12675.2	11634.8	10390.4	9107.1
15°	8747.3	8900.8	9526.5	10915.2	11861.7	12262.7	12251.3	12200.9	11547.7	10443.1	9125.4
17.5°	9081.9	9207.9	9913.8	11016.1	11391.9	11350.6	11410.2	11653.1	11566.1	10885.4	9702.9
20°	9945.8	10074.2	10832.7	11325.4	11032.1	10770.8	10798.3	11204.0	11735.6	11717.3	10605.8
22.5°	11135.2	11352.9	12040.4	11925.8	10984.0	10411.1	10353.8	10880.8	12024.4	12675.2	11825.0
25°	12640.9	12860.9	13397.1	12883.8	11220.0	10326.3	10273.6	10782.3	12375.0	13610.2	13197.7
27.5°	13905.9	14073.1	14607.1	13816.5	11568.3	10362.9	10275.8	10796.1	12659.2	14405.4	14355.0
30°	14918.8	15042.5	15356.5	14251.9	11868.6	10523.3	10422.5	10997.7	12785.2	14792.7	15292.3
32.5°	15734.6	15943.1	16041.7	14717.1	12299.4	10825.8	10654.0	11385.0	13092.3	15271.7	16275.4
35°	16667.3	16907.9	16781.9	15161.7	12867.7	11297.9	11087.1	12012.9	13557.5	15714.0	17416.7
37.5°	17849.8	18127.1	17634.4	15629.2	13468.1	12008.3	11909.8	12895.2	14263.4	16346.5	18640.4
40°	19073.6	19234.0	18461.7	16197.5	14206.1	13041.9	13135.9	14206.1	15186.9	17105.0	19942.1
42.5°	20029.2	20180.4	19311.9	16674.2	14960.0	14267.9	14659.8	15787.3	16245.6	17881.9	20913.8
45°	20760.2	20888.6	19900.9	17194.4	15977.5	16044.0	16784.2	17416.7	17306.7	18356.3	21663.2
47.5°	21328.6	21438.6	20354.6	17753.6	17501.5	18216.5	19348.6	19616.7	18406.7	18869.6	22341.5
50°	21562.3	21594.4	20496.7	18466.3	19231.7	20984.8	22165.0	22002.3	19667.1	19440.2	23063.4
52.5°	21867.1	21860.2	20902.3	19144.6	20858.8	23459.8	24637.7	24268.8	21092.5	20295.0	23874.6
55°	22666.9	22676.1	21770.9	20107.1	22245.2	25458.2	26718.6	26450.5	22595.9	21738.8	24821.1
57.5°	23638.6	23672.9	23006.1	21232.3	23569.8	26906.5	28272.3	28169.2	24628.6	23345.2	25714.8
59°	23764.6	23833.4	23590.4	22025.2	24355.9	27351.1	28804.0	28904.8	25717.1	24404.0	26198.4
60°	23535.4	23650.0	23760.0	22474.4	24816.5	27511.5	28836.1	29033.2	26535.2	25123.6	26418.4
62.5°	22536.3	22717.3	23269.6	23856.3	25391.7	27011.9	27811.7	28224.2	27548.2	27014.2	26439.0
65°	21227.7	21321.7	22119.2	24101.5	24275.7	24679.0	24926.5	25455.9	26331.3	27743.0	25492.5
67.5°	19082.7	19360.0	20336.3	22678.4	20982.5	20505.9	20444.0	19916.9	22190.2	26005.9	23159.6
70°	15764.4	15888.1	17091.3	18592.3	15835.4	15102.1	15395.4	15198.4	17201.3	22387.3	18640.4
72.5°	11921.3	12200.9	13376.5	14820.2	10775.4	9824.4	10633.3	10560.0	12920.4	17991.9	12805.9
75°	8481.5	8662.5	10161.3	11598.1	7546.5	6393.8	6684.8	6957.5	9020.0	14206.1	7567.1
77.5°	5827.7	5983.5	7108.8	7670.2	5504.6	5273.1	4824.0	5087.5	5910.2	8428.8	4118.1
80°	3515.4	3508.5	4248.8	4386.3	3834.0	4452.7	3735.4	4193.8	3572.7	3607.1	1595.0
82.5°	2282.5	2259.6	2598.8	2832.5	2133.5	2243.5	1505.6	2170.2	2328.3	1006.0	504.2
85°	1022.1	1065.6	1249.0	1647.7	935.0	497.3	307.1	666.9	992.3	506.5	0.0
87.5°	105.4	82.5	220.0	401.0	128.3	13.8	45.8	22.9	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: P457684

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1
2.5°	10908.3	10775.4	10379.0	10007.7	9689.2	9299.6	9047.5	8651.1	8410.4	8337.1	8348.6
5°	10470.6	10087.9	9334.0	8731.3	8059.8	7677.1	7095.0	6535.8	6233.3	6121.1	6070.6
7.5°	9554.0	9143.8	8234.0	7287.5	6567.9	5896.5	5463.3	4970.6	4633.8	4356.5	4308.3
10°	8873.3	8334.8	7207.3	6189.8	5621.5	5117.3	4684.2	4191.5	3795.0	3478.8	3391.7
12.5°	8465.4	7862.7	6604.6	5752.1	5213.5	4695.6	4131.9	3561.3	3155.6	2814.2	2656.0
15°	8392.1	7693.1	6435.0	5438.1	4773.5	4147.9	3398.5	2782.1	2365.0	2041.9	1943.3
17.5°	8834.4	7997.9	6409.8	5110.4	4198.3	3311.5	2532.3	2021.3	1551.5	1370.4	1299.4
20°	9622.7	8536.5	6407.5	4730.0	3607.1	2550.6	1778.3	1317.7	1127.5	1040.4	999.2
22.5°	10697.5	9269.8	6529.0	4402.3	2992.9	1881.5	1269.6	1049.6	939.6	868.5	852.5
25°	12010.6	10356.1	6826.9	4180.0	2523.1	1475.8	1047.3	898.3	806.7	774.6	760.8
27.5°	13177.1	11396.5	7154.6	3950.8	2186.3	1306.3	971.7	822.7	749.4	724.2	703.5
30°	14183.1	12340.6	7312.7	3648.3	1915.8	1196.3	985.4	880.0	783.8	708.1	673.8
32.5°	15021.9	13064.8	7415.8	3373.3	1686.7	978.5	779.2	680.6	637.1	609.6	586.7
35°	16071.5	13848.6	7354.0	3217.5	1569.8	891.5	710.4	586.7	513.3	458.3	435.4
37.5°	17171.5	14632.3	7246.3	3089.2	1517.1	827.3	676.0	556.9	476.7	419.4	389.6
40°	18310.4	15358.8	7120.2	2970.0	1469.0	786.0	655.4	531.7	451.5	389.6	357.5
42.5°	19353.2	16066.9	7069.8	2892.1	1391.0	792.9	639.4	520.2	426.3	362.1	334.6
45°	20196.5	16738.4	7138.6	2850.8	1306.3	781.5	644.0	506.5	405.6	343.8	316.3
47.5°	21097.1	17687.1	7360.8	2809.6	1223.8	726.5	678.3	504.2	396.5	332.3	302.5
50°	22144.4	18901.7	7869.6	2708.8	1122.9	666.9	721.9	501.9	385.0	318.5	288.8
52.5°	23540.0	20281.3	8394.4	2532.3	976.3	609.6	689.8	495.0	362.1	302.5	272.7
55°	24793.6	21734.2	8839.0	2323.8	790.6	527.1	621.0	465.2	323.1	275.0	247.5
57.5°	25311.5	22554.6	8825.2	2035.0	632.5	462.9	511.0	426.3	281.9	242.9	220.0
59°	25121.3	22451.5	8529.6	1821.9	577.5	428.5	424.0	421.7	263.5	220.0	201.7
60°	24853.2	22075.7	8211.1	1716.5	543.1	405.6	389.6	417.1	247.5	206.3	187.9
62.5°	23826.5	20517.3	7154.6	1537.7	497.3	343.8	311.7	352.9	220.0	178.8	162.7
65°	22339.2	18122.5	6056.9	1487.3	483.5	284.2	259.0	252.1	187.9	151.3	137.5
67.5°	19437.9	15335.9	4906.5	1452.9	488.1	238.3	226.9	190.2	155.8	126.0	116.9
70°	15562.7	11957.9	4017.3	1414.0	492.7	194.8	190.2	151.3	126.0	105.4	96.3
72.5°	9455.4	7088.1	3162.5	1228.3	479.0	155.8	169.6	114.6	91.7	75.6	71.0
75°	5846.0	4851.5	1961.7	955.6	316.3	114.6	119.2	71.0	61.9	48.1	48.1
77.5°	3387.1	3064.0	701.3	343.8	139.8	68.8	52.7	36.7	34.4	20.6	20.6
80°	1404.8	1125.2	242.9	116.9	75.6	32.1	11.5	2.3	0.0	0.0	0.0
82.5°	410.2	364.4	66.5	52.7	22.9	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°	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1
2.5°	8153.8	8078.1	8043.8	8160.6	8052.9	8190.4	8085.0	8130.8	8266.1	8325.6	8479.2
5°	6102.7	6024.8	5988.1	6164.6	6155.4	6242.5	6233.3	6313.6	6382.3	6228.8	6386.9
7.5°	4251.0	4198.3	4285.4	4422.9	4569.6	4521.5	4521.5	4413.8	4450.4	4427.5	4420.6
10°	3233.5	3052.5	3006.7	3002.1	3057.1	3068.5	3006.7	2857.7	2912.7	2928.8	3025.0
12.5°	2543.8	2404.0	2190.8	2094.6	2069.4	2090.0	1886.0	1755.4	1817.3	1780.6	1874.6
15°	1824.2	1709.6	1583.5	1475.8	1446.0	1404.8	1182.5	1026.7	1008.3	1015.2	1031.3
17.5°	1301.7	1223.8	1223.8	1109.2	1047.3	923.5	811.3	742.5	735.6	742.5	754.0
20°	960.2	919.0	914.4	884.6	815.8	733.3	655.4	641.7	637.1	648.5	653.1
22.5°	827.3	783.8	747.1	744.8	680.6	611.9	575.2	556.9	559.2	563.8	575.2
25°	740.2	694.4	655.4	632.5	586.7	538.5	504.2	495.0	495.0	501.9	504.2
27.5°	678.3	621.0	586.7	554.6	513.3	472.1	442.3	435.4	430.8	435.4	446.9
30°	634.8	577.5	534.0	485.8	453.8	414.8	389.6	380.4	378.1	380.4	389.6
32.5°	543.1	508.8	474.4	430.8	391.9	366.7	339.2	323.1	323.1	327.7	336.9
35°	410.2	391.9	389.6	378.1	346.0	318.5	286.5	270.4	270.4	279.6	284.2
37.5°	362.1	327.7	323.1	318.5	304.8	268.1	238.3	224.6	222.3	229.2	238.3
40°	330.0	291.0	270.4	265.8	268.1	226.9	194.8	181.0	181.0	183.3	192.5
42.5°	304.8	259.0	222.3	217.7	226.9	190.2	158.1	144.4	144.4	144.4	155.8
45°	284.2	231.5	187.9	165.0	178.8	155.8	128.3	114.6	110.0	114.6	119.2
47.5°	270.4	210.8	165.0	132.9	132.9	123.8	103.1	87.1	82.5	84.8	91.7
50°	259.0	192.5	139.8	107.7	96.3	98.5	77.9	66.5	61.9	61.9	68.8
52.5°	240.6	174.2	121.5	91.7	73.3	66.5	57.3	48.1	45.8	48.1	52.7
55°	217.7	158.1	105.4	75.6	57.3	45.8	41.3	34.4	32.1	34.4	41.3
57.5°	192.5	132.9	84.8	59.6	39.0	29.8	27.5	22.9	18.3	20.6	25.2
59°	176.5	119.2	73.3	48.1	29.8	20.6	20.6	16.0	11.5	13.8	20.6
60°	169.6	110.0	61.9	41.3	25.2	16.0	16.0	11.5	6.9	9.2	16.0
62.5°	144.4	91.7	48.1	25.2	11.5	2.3	6.9	2.3	0.0	2.3	6.9
65°	121.5	73.3	32.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0	2.3
67.5°	100.8	55.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	80.2	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	55.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	34.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.8	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: P457684
 CATALOG NUMBER: GALN-SA9A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1	10081.1
2.5°	8488.3	8816.1	9017.7	9398.1	9787.7	10087.9	10463.8	10800.6	10940.4	11013.8
5°	6547.3	7003.3	7390.6	7970.4	8509.0	9164.4	9829.0	10612.7	10912.9	10990.8
7.5°	4594.8	5060.0	5465.6	6137.1	6904.8	7782.5	8777.1	9771.7	10209.4	10333.1
10°	3318.3	3815.6	4310.6	4982.1	5699.4	6650.4	7686.3	8916.9	9421.1	9517.3
12.5°	2094.6	2628.5	3432.9	4262.5	5021.0	5786.5	6870.4	8208.8	8765.6	8942.1
15°	1214.6	1613.3	2220.6	3302.3	4267.1	5280.0	6462.5	7942.9	8566.3	8747.3
17.5°	813.5	951.0	1368.1	2195.4	3469.6	4812.5	6359.4	8160.6	8850.4	9081.9
20°	685.2	747.1	893.8	1338.3	2672.1	4395.4	6386.9	8751.9	9657.1	9945.8
22.5°	602.7	660.0	754.0	962.5	1865.4	3877.5	6517.5	9597.5	10766.3	11135.2
25°	531.7	589.0	671.5	797.5	1253.5	3279.4	6804.0	10835.0	12235.2	12640.9
27.5°	472.1	524.8	595.8	703.5	964.8	2612.5	7058.3	12040.4	13575.9	13905.9
30°	417.1	460.6	529.4	611.9	802.1	2014.4	7186.7	13094.6	14552.1	14918.8
32.5°	362.1	403.3	469.8	536.3	660.0	1535.4	7097.3	13869.2	15500.9	15734.6
35°	309.4	352.9	407.9	469.8	570.6	1239.8	6650.4	14740.0	16484.0	16667.3
37.5°	265.8	302.5	359.8	407.9	515.6	992.3	6109.6	15523.8	17586.3	17849.8
40°	224.6	261.3	318.5	362.1	474.4	781.5	5621.5	16394.6	18748.2	19073.6
42.5°	183.3	226.9	277.3	348.3	407.9	595.8	5030.2	17100.4	19621.3	20029.2
45°	146.7	194.8	249.8	346.0	355.2	453.8	4459.6	17650.4	20393.6	20760.2
47.5°	116.9	165.0	240.6	323.1	291.0	359.8	4134.2	18225.6	21035.2	21328.6
50°	94.0	137.5	252.1	284.2	242.9	304.8	4125.0	18867.3	21367.5	21562.3
52.5°	75.6	112.3	213.1	217.7	206.3	268.1	4372.5	19589.2	21706.7	21867.1
55°	64.2	94.0	139.8	160.4	185.6	242.9	4558.1	20700.7	22515.7	22666.9
57.5°	50.4	80.2	107.7	128.3	165.0	222.3	4583.3	21557.7	23540.0	23638.6
59°	43.5	68.8	96.3	114.6	151.3	208.5	4480.2	21610.4	23606.5	23764.6
60°	36.7	61.9	84.8	107.7	139.8	197.1	4367.9	21227.7	23359.0	23535.4
62.5°	27.5	48.1	61.9	87.1	114.6	169.6	3836.3	19891.7	22412.5	22536.3
65°	18.3	34.4	45.8	64.2	89.4	146.7	3125.8	18159.2	20950.4	21227.7
67.5°	11.5	25.2	36.7	48.1	73.3	123.8	2227.5	15571.9	18904.0	19082.7
70°	6.9	16.0	27.5	39.0	57.3	98.5	1322.3	12308.6	15727.7	15764.4
72.5°	4.6	11.5	18.3	27.5	45.8	89.4	641.7	8023.1	11483.6	11921.3
75°	2.3	6.9	11.5	20.6	36.7	73.3	307.1	5360.2	8355.4	8481.5
77.5°	0.0	2.3	6.9	13.8	27.5	57.3	178.8	3520.0	5697.1	5827.7
80°	0.0	0.0	4.6	11.5	20.6	36.7	107.7	2076.3	3451.3	3515.4
82.5°	0.0	0.0	2.3	9.2	13.8	27.5	55.0	912.1	2259.6	2282.5
85°	0.0	0.0	2.3	9.2	11.5	18.3	20.6	123.8	1003.8	1022.1
87.5°	0.0	0.0	2.3	11.5	11.5	11.5	11.5	6.9	84.8	105.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)