

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: P458382

Luminaire Tested: **GALN-SA9D-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458382
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-SA9D-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 50364 lumens
Efficiency: N/A
Efficacy: 91.2 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

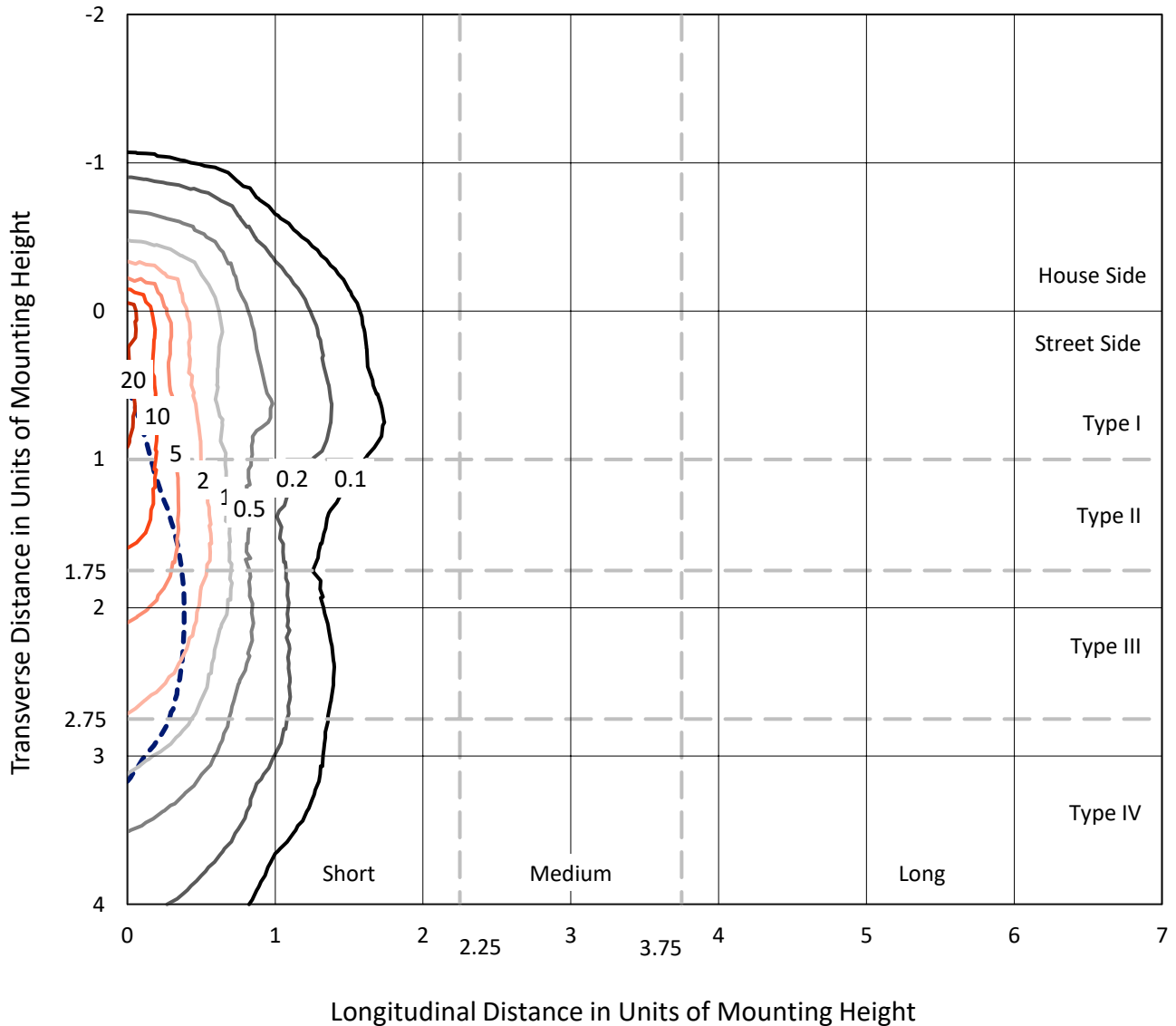
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458382
 CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

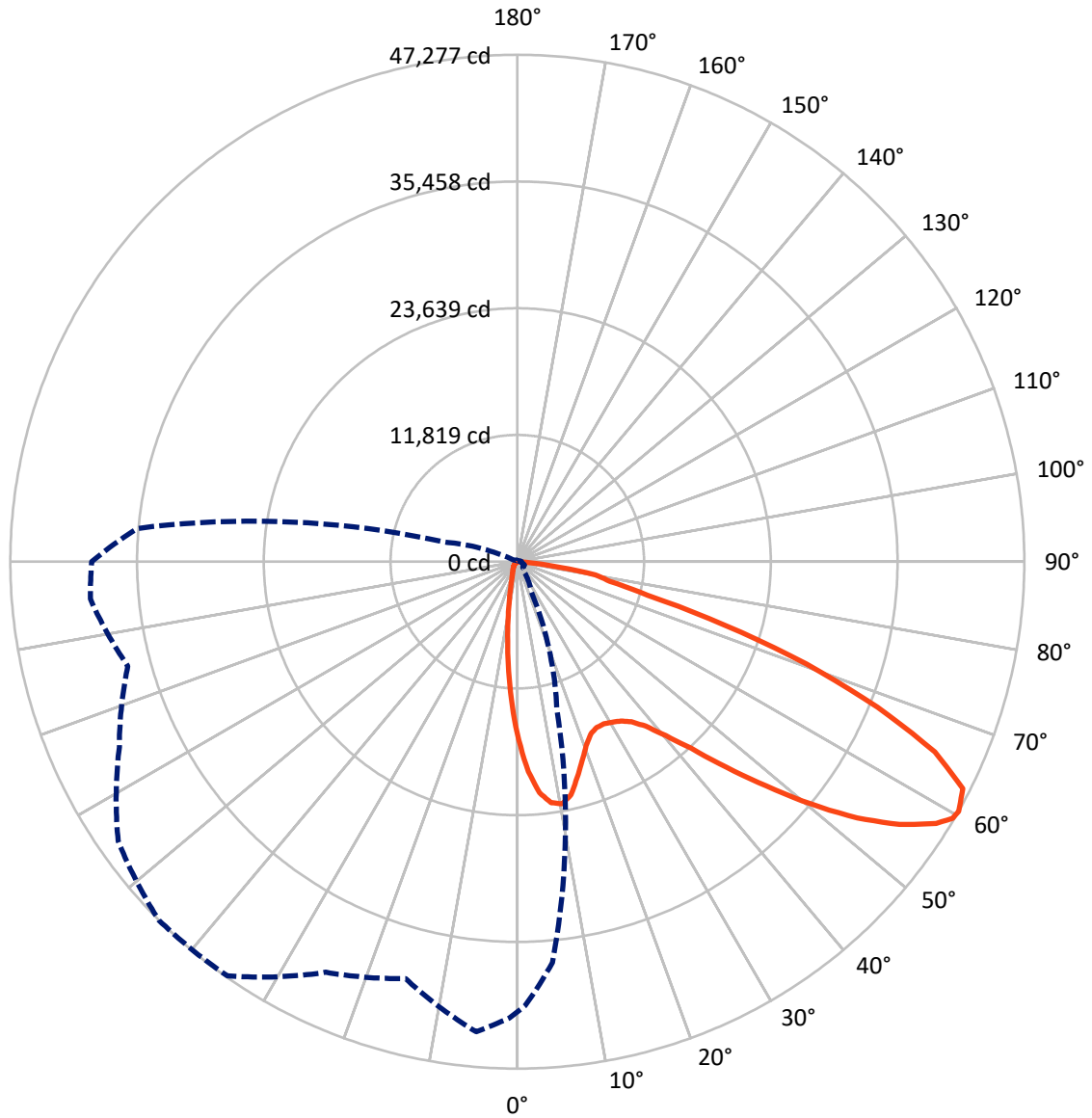
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P458382
CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458382
 CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

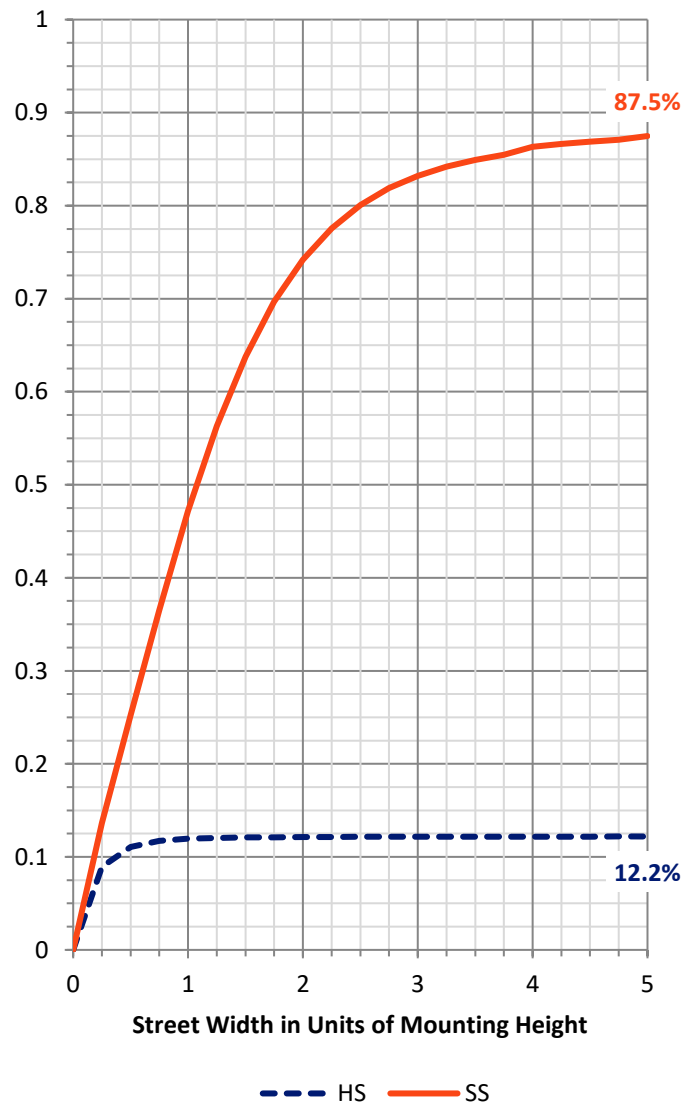
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6211.9	0.0	6211.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	44152.1	0.0	44152.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	50364.0	0.0	50364.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.1	2.5
10°-20°	2458.8	4.9
20°-30°	3605.3	7.2
30°-40°	5361.7	10.6
40°-50°	7803.0	15.5
50°-60°	11252.5	22.3
60°-70°	12376.5	24.6
70°-80°	5543.7	11.0
80°-90°	724.4	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°	50364.0	100.0
0°-180°	50364.0	100.0



REPORT NUMBER: P458382

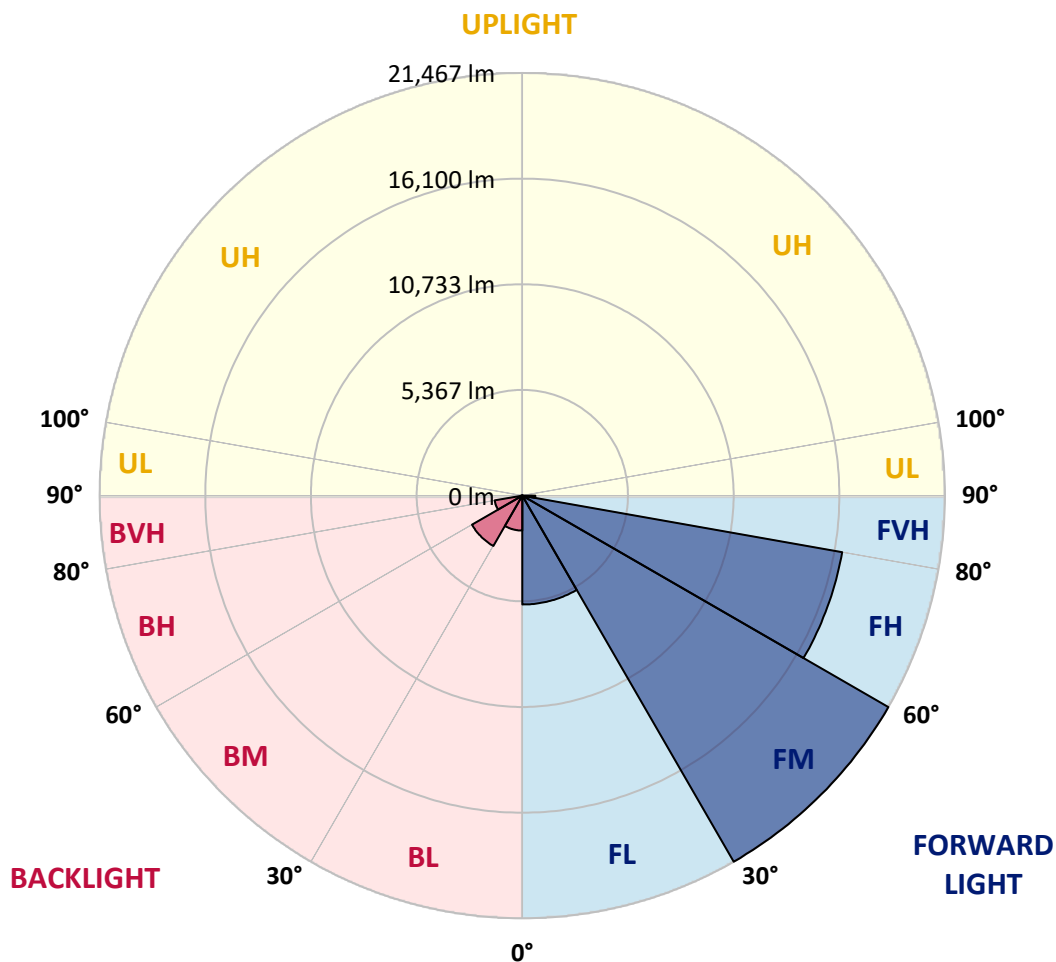
CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5527.3	11.0			
FM	(30°-60°)	21466.7	42.6			
FH	(60°-80°)	16495.7	32.8			G5
FVH	(80°-90°)	662.4	1.3			G4/750
BL	(0°-30°)	1774.9	3.5	B3/2500		
BM	(30°-60°)	2950.5	5.9	B3/5000		
BH	(60°-80°)	1424.5	2.8	B3/2500		G3/2500
BVH	(80°-90°)	61.9	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





REPORT NUMBER: P458382

CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0
2.5°	18299.9	18219.5	18035.7	17476.8	16990.6	16355.1	15711.9	15206.5	14896.4	14326.0	14065.7
5°	17729.5	17767.8	17235.6	16087.1	14808.4	13935.5	12982.2	12224.2	11389.6	10861.3	10306.1
7.5°	16240.2	16163.6	15585.5	13985.3	12430.9	11167.5	9961.6	8981.5	8365.1	7871.3	7457.8
10°	14965.3	14907.9	14169.0	12109.3	10440.1	9494.5	8679.1	7821.5	7159.2	6435.6	5857.5
12.5°	14165.2	14035.0	13185.1	11033.5	9674.4	8793.9	7905.7	7013.7	6098.7	5367.5	4666.9
15°	13897.2	13709.6	12764.0	10662.2	9184.4	8066.5	6952.4	5926.4	4873.6	4065.8	3537.5
17.5°	14383.4	14073.3	13066.4	10597.1	8598.7	7117.1	5746.5	4410.4	3315.4	2699.0	2373.6
20°	15497.5	15141.4	13832.1	10532.0	7947.8	6052.8	4368.2	3116.3	2293.2	1956.3	1776.4
22.5°	17151.4	16661.3	14965.3	10635.4	7346.8	5015.2	3154.6	2201.3	1822.3	1611.8	1485.4
25°	19138.3	18728.7	16401.0	11002.9	6872.0	4199.8	2438.7	1799.4	1535.2	1405.0	1309.3
27.5°	21316.7	20662.0	18257.8	11443.2	6439.4	3568.1	2140.1	1607.9	1366.8	1248.1	1198.3
30°	22867.2	22358.0	19812.1	11749.5	5899.6	3093.4	1956.3	1585.0	1370.6	1228.9	1137.0
32.5°	24398.6	23747.8	21113.8	11891.1	5505.3	2764.1	1692.2	1382.1	1202.1	1129.4	1037.5
35°	26037.2	25355.7	22411.6	11814.5	5210.5	2545.9	1535.2	1232.8	1029.8	907.3	815.5
37.5°	27694.9	26975.1	23701.8	11538.9	5026.7	2457.9	1412.7	1171.5	972.4	846.1	746.5
40°	29662.7	28701.8	24911.6	11313.0	4835.3	2411.9	1332.3	1133.2	930.3	796.3	696.8
42.5°	31270.6	30355.6	26056.3	11194.3	4705.1	2304.7	1332.3	1102.6	903.5	754.2	650.8
45°	32794.3	31844.9	27292.9	11290.0	4651.5	2170.7	1347.6	1098.8	884.4	723.6	620.2
47.5°	34069.2	33246.1	28563.9	11649.9	4582.6	2025.2	1267.2	1152.4	872.9	696.8	589.6
50°	35573.8	34777.5	30244.6	12377.3	4460.1	1879.8	1167.7	1240.4	869.1	673.8	562.8
52.5°	37694.7	36833.3	32564.6	13204.3	4264.9	1657.7	1075.8	1228.9	853.7	635.5	536.0
55°	40286.6	39589.8	35252.2	14195.8	3996.9	1408.9	930.3	1091.1	807.8	570.4	490.0
57.5°	41948.1	41354.7	37266.0	14624.6	3587.2	1152.4	819.3	915.0	738.9	509.2	436.4
59°	42143.4	41607.4	37687.1	14483.0	3319.3	1052.8	765.7	784.8	719.7	474.7	405.8
60°	41978.8	41423.6	37518.6	14207.3	3070.4	983.9	719.7	696.8	723.6	455.6	382.8
62.5°	40922.1	39972.7	35883.9	12809.9	2683.7	903.5	639.3	570.4	639.3	409.6	340.7
65°	38881.6	37457.4	32648.9	10842.1	2530.6	857.6	543.6	478.6	486.2	359.9	294.8
67.5°	35317.3	33521.7	28341.9	8809.2	2465.5	861.4	459.4	428.8	375.2	306.3	260.3
70°	29681.8	27890.1	22740.9	7247.2	2434.9	861.4	390.5	367.5	313.9	256.5	225.9
72.5°	21033.4	19103.9	15340.5	5692.9	2193.7	857.6	333.1	333.1	256.5	214.4	183.8
75°	11883.5	11898.8	9643.8	4027.5	1822.3	708.3	268.0	264.2	187.6	164.6	137.8
77.5°	6925.6	6803.1	6500.7	1730.5	846.1	321.6	187.6	160.8	130.2	118.7	99.5
80°	3560.4	2928.8	2852.2	627.9	302.4	202.9	130.2	91.9	84.2	76.6	68.9
82.5°	1052.8	1056.6	941.8	252.7	168.5	134.0	65.1	49.8	45.9	42.1	42.1
85°	72.7	45.9	53.6	76.6	103.4	53.6	3.8	11.5	11.5	15.3	19.1
87.5°	7.7	3.8	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: P458382

CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0
2.5°	13778.5	13947.0	13633.0	13640.7	13380.4	13464.6	13158.3	13257.9	13077.9	13215.7	13621.6
5°	10367.4	10405.7	10153.0	10072.6	10110.9	10267.9	10329.1	10049.6	10168.3	9934.8	9919.5
7.5°	7304.6	7350.6	7205.1	7186.0	7461.6	7396.5	7515.2	7228.1	6956.3	7074.9	6856.7
10°	5673.7	5482.3	5183.7	5099.5	5045.9	5080.3	5080.3	4820.0	4781.7	4678.3	4835.3
12.5°	4479.3	4245.7	3962.4	3579.6	3483.9	3476.2	3334.6	3104.9	3032.1	2944.1	3074.2
15°	3254.2	3158.5	2921.1	2706.7	2488.5	2446.4	2216.7	2029.1	1780.2	1745.8	1734.3
17.5°	2289.4	2147.8	2143.9	2021.4	1895.1	1810.8	1596.5	1382.1	1286.4	1274.9	1274.9
20°	1715.1	1665.4	1585.0	1569.7	1531.4	1435.7	1244.2	1129.4	1083.4	1087.3	1102.6
22.5°	1443.3	1408.9	1336.1	1301.7	1286.4	1202.1	1060.5	983.9	960.9	960.9	964.8
25°	1290.2	1259.6	1179.2	1125.6	1106.4	1045.2	934.1	876.7	857.6	857.6	857.6
27.5°	1175.3	1137.0	1052.8	1006.9	972.4	903.5	834.6	777.2	758.0	758.0	761.9
30°	1094.9	1052.8	976.3	915.0	861.4	800.1	742.7	692.9	670.0	666.1	670.0
32.5°	987.7	949.5	872.9	834.6	773.3	700.6	654.7	608.7	585.8	589.6	585.8
35°	769.5	758.0	704.4	715.9	681.5	620.2	578.1	528.3	501.5	497.7	505.4
37.5°	700.6	654.7	593.4	597.2	585.8	562.8	493.9	440.3	421.1	421.1	425.0
40°	647.0	601.1	532.2	497.7	501.5	501.5	428.8	371.4	352.2	348.4	356.0
42.5°	601.1	555.1	478.6	421.1	405.8	425.0	363.7	306.3	287.1	279.5	287.1
45°	570.4	520.7	432.6	367.5	321.6	344.6	298.6	252.7	229.7	229.7	225.9
47.5°	539.8	493.9	398.2	317.8	268.0	256.5	245.0	202.9	179.9	176.1	179.9
50°	513.0	467.1	359.9	275.6	225.9	199.1	199.1	160.8	145.5	137.8	141.7
52.5°	486.2	436.4	325.4	245.0	195.3	160.8	141.7	130.2	118.7	114.9	118.7
55°	447.9	398.2	291.0	210.6	168.5	134.0	111.0	107.2	99.5	91.9	99.5
57.5°	402.0	356.0	256.5	179.9	134.0	103.4	91.9	88.1	80.4	76.6	76.6
59°	375.2	333.1	237.4	157.0	118.7	91.9	84.2	80.4	72.7	65.1	68.9
60°	359.9	325.4	225.9	145.5	107.2	84.2	76.6	72.7	65.1	61.3	65.1
62.5°	317.8	291.0	199.1	118.7	84.2	61.3	53.6	57.4	53.6	49.8	53.6
65°	279.5	256.5	168.5	91.9	65.1	42.1	38.3	49.8	45.9	42.1	45.9
67.5°	248.8	222.0	141.7	68.9	45.9	23.0	26.8	42.1	42.1	38.3	42.1
70°	214.4	191.4	114.9	49.8	23.0	11.5	19.1	30.6	38.3	34.5	38.3
72.5°	176.1	149.3	88.1	34.5	11.5	0.0	11.5	26.8	38.3	34.5	38.3
75°	137.8	111.0	65.1	19.1	0.0	0.0	3.8	23.0	38.3	34.5	38.3
77.5°	99.5	80.4	38.3	3.8	0.0	0.0	3.8	23.0	38.3	34.5	38.3
80°	65.1	57.4	15.3	0.0	0.0	0.0	3.8	23.0	38.3	38.3	42.1
82.5°	42.1	30.6	0.0	0.0	0.0	0.0	7.7	30.6	42.1	45.9	45.9
85°	19.1	0.0	0.0	0.0	0.0	0.0	15.3	38.3	49.8	49.8	49.8
87.5°	0.0	0.0	0.0	0.0	0.0	7.7	26.8	45.9	57.4	57.4	57.4
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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CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0
2.5°	13690.5	13931.7	14272.4	14796.9	15221.8	15891.8	16404.8	17105.4	17813.7	18028.1	18361.2
5°	10076.4	10386.5	11159.9	11864.3	12308.4	13724.9	14620.8	16033.5	17300.7	17909.4	18571.7
7.5°	6998.4	7365.9	7955.5	8939.4	9873.5	11025.9	12473.0	14088.6	15945.4	16814.5	17748.6
10°	4911.9	5371.3	6202.1	7009.9	8185.2	9280.1	10708.1	12492.2	14540.4	15566.4	16737.9
12.5°	3101.0	3510.7	4609.4	5516.8	6983.1	8254.1	9571.1	11186.7	13560.3	14613.1	15842.1
15°	1772.6	2117.1	2630.1	3794.0	5421.1	7101.7	8744.1	10620.1	13058.8	14356.6	15685.1
17.5°	1320.8	1412.7	1642.4	2300.9	3782.5	5746.5	7982.3	10447.8	13399.5	14923.2	16439.3
20°	1110.2	1171.5	1278.7	1539.0	2411.9	4425.7	7239.6	10478.4	14502.1	16416.3	17855.8
22.5°	995.4	1033.7	1121.7	1290.2	1646.2	3223.5	6370.5	10658.4	15838.2	18250.1	19911.7
25°	872.9	922.7	999.2	1144.7	1370.6	2235.8	5512.9	11060.3	17710.3	20577.8	22139.8
27.5°	777.2	823.1	899.7	1033.7	1202.1	1707.5	4513.7	11404.9	19685.8	22920.8	24199.5
30°	681.5	727.4	804.0	911.2	1064.3	1382.1	3437.9	11607.8	21603.8	24678.1	25662.0
32.5°	601.1	639.3	712.1	807.8	934.1	1171.5	2710.5	11397.2	23070.1	26274.5	26933.0
35°	520.7	566.6	627.9	715.9	826.9	999.2	2254.9	10669.8	24329.7	27916.9	28154.3
37.5°	436.4	490.0	555.1	635.5	723.6	918.8	1810.8	9865.9	25677.3	29965.1	29574.6
40°	367.5	417.3	478.6	566.6	647.0	842.3	1393.5	9008.3	27132.1	31887.0	31125.2
42.5°	298.6	352.2	425.0	505.4	639.3	735.1	1079.6	8120.1	28437.6	33560.0	32526.4
45°	237.4	283.3	359.9	463.2	635.5	631.7	834.6	7243.4	29421.5	34754.5	33571.5
47.5°	187.6	225.9	302.4	451.8	585.8	536.0	670.0	6699.8	30455.2	35830.3	34371.7
50°	149.3	187.6	260.3	470.9	513.0	459.4	562.8	6787.8	31454.4	36377.8	34700.9
52.5°	126.3	164.6	225.9	371.4	394.3	402.0	493.9	7193.6	32744.6	36963.5	35355.6
55°	111.0	145.5	191.4	260.3	306.3	359.9	451.8	7488.4	34471.2	38219.2	36798.9
57.5°	88.1	126.3	172.3	222.0	252.7	313.9	417.3	7511.4	36033.2	39831.0	38716.9
59°	80.4	114.9	160.8	210.6	225.9	283.3	394.3	7316.1	36090.6	40072.2	39597.5
60°	72.7	111.0	153.1	195.3	214.4	268.0	375.2	7090.3	35570.0	39689.4	39961.2
62.5°	61.3	95.7	134.0	157.0	183.8	222.0	325.4	6271.0	33047.0	37955.1	39287.4
65°	53.6	84.2	114.9	130.2	153.1	191.4	287.1	5019.1	30259.9	35604.4	37357.8
67.5°	49.8	76.6	99.5	111.0	134.0	176.1	256.5	3545.1	26649.7	32622.1	34459.7
70°	45.9	72.7	88.1	103.4	118.7	149.3	218.2	2067.4	20528.1	27392.4	29333.4
72.5°	45.9	68.9	76.6	88.1	103.4	134.0	202.9	1117.9	14035.0	20895.6	23403.2
75°	45.9	65.1	68.9	76.6	91.9	122.5	179.9	585.8	9073.4	14517.4	17917.1
77.5°	45.9	61.3	68.9	72.7	88.1	107.2	157.0	367.5	6045.1	10168.3	12109.3
80°	49.8	61.3	65.1	72.7	84.2	99.5	130.2	245.0	3552.8	6117.8	7369.7
82.5°	53.6	61.3	68.9	76.6	88.1	95.7	114.9	153.1	1638.6	4046.7	4578.8
85°	57.4	65.1	72.7	80.4	91.9	95.7	107.2	111.0	268.0	1826.2	2469.3
87.5°	61.3	68.9	76.6	84.2	99.5	99.5	99.5	99.5	91.9	195.3	497.7
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: P458382

CATALOG NUMBER: GALN-SA9D-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0	16646.0
2.5°	18782.3	19214.9	19517.3	19593.9	19375.7	19276.2	19000.5	18571.7	18311.4	18299.9
5°	19793.0	20807.5	21512.0	21630.6	21209.5	20497.4	19651.3	18560.2	17920.9	17729.5
7.5°	19620.7	21397.1	22530.3	22694.9	21986.7	20627.6	18989.0	17231.8	16535.0	16240.2
10°	18912.5	21079.3	22698.8	22959.1	22013.5	20099.3	18016.6	16056.4	15191.2	14965.3
12.5°	18307.6	20497.4	21936.9	22296.8	21580.9	19670.5	17434.7	15302.2	14375.8	14165.2
15°	18043.4	19808.3	20688.8	20872.6	20753.9	19402.5	17373.4	15187.4	14126.9	13897.2
17.5°	18307.6	19222.6	19333.6	19521.2	19785.3	19375.7	17963.0	15811.4	14666.7	14383.4
20°	19000.5	18713.4	18254.0	18334.4	18939.3	19486.7	19012.0	17193.5	15799.9	15497.5
22.5°	20179.7	18587.0	17545.7	17476.8	18242.5	19858.1	20551.0	19065.6	17450.0	17151.4
25°	21626.8	18904.8	17285.4	17136.1	17970.7	20401.7	22224.0	21358.8	19593.9	19138.3
27.5°	23204.1	19563.3	17285.4	17139.9	17947.7	20884.1	23655.9	23387.9	21814.4	21316.7
30°	24069.4	20106.9	17534.2	17369.6	18231.0	21163.6	24421.6	25191.1	23483.6	22867.2
32.5°	24842.7	20861.1	18020.4	17710.3	18824.4	21577.0	25106.9	26722.5	24812.1	24398.6
35°	25554.8	21668.9	18690.4	18330.5	19605.4	22143.7	25864.9	28330.4	26661.2	26037.2
37.5°	26339.6	22606.9	19735.6	19429.3	20910.9	23246.2	26764.6	30443.7	28479.7	27694.9
40°	27193.4	23694.2	21454.5	21324.4	22985.9	24494.3	27901.6	32698.6	30554.7	29662.7
42.5°	28062.4	24946.1	23560.2	23774.6	25336.6	26243.9	29069.3	34432.9	32254.5	31270.6
45°	28851.1	26546.3	26297.5	27358.0	28077.7	27951.4	29934.5	35654.2	33736.1	32794.3
47.5°	29846.5	28877.9	29609.1	31243.8	31263.0	29808.2	30589.2	36653.4	35011.0	34069.2
50°	30960.5	31630.5	33885.5	35550.8	35102.9	31634.3	31354.9	37836.4	36328.0	35573.8
52.5°	32250.7	34712.4	37836.4	39685.5	38640.4	33625.1	32629.7	39115.1	38418.3	37694.7
55°	33751.5	36814.2	41775.8	43249.8	42197.0	36098.3	34566.9	40849.4	40780.5	40286.6
57.5°	35447.5	39034.7	44057.6	46052.2	45114.2	39000.2	37273.6	42484.1	42223.8	41948.1
59°	36787.4	40175.6	45064.5	47131.8	46565.2	41033.1	39092.1	43502.5	42556.8	42143.4
60°	37599.0	40948.9	45435.8	47277.3	47147.1	42242.9	40244.5	44000.2	42553.0	41978.8
62.5°	40007.1	42300.3	45294.2	46630.3	47139.5	44562.9	43625.0	44547.6	41764.4	40922.1
65°	40864.7	41852.4	42947.3	42782.7	43219.2	44444.3	45784.2	43946.6	40079.9	38881.6
67.5°	39195.5	36940.5	37327.2	36228.5	36014.1	39513.2	44907.5	41006.3	36783.6	35317.3
70°	33039.4	28299.8	28104.5	28609.9	27224.0	31990.4	40324.9	35344.1	31343.4	29681.8
72.5°	26006.5	19999.7	18353.5	20214.1	20172.0	24406.3	33498.8	25080.1	21175.1	21033.4
75°	20451.5	13924.0	12220.4	12522.8	13104.7	17668.2	26680.3	15926.3	13039.6	11883.5
77.5°	13728.8	9865.9	9203.6	8832.2	9460.1	11343.6	16879.6	8636.9	7312.3	6925.6
80°	7913.4	7166.8	8139.2	7388.9	7725.8	7147.7	8395.8	3962.4	3288.6	3560.4
82.5°	5149.2	4081.1	4349.1	3231.2	4418.0	4456.3	2695.2	1171.5	991.6	1052.8
85°	3219.7	1914.2	1075.8	765.7	1523.7	2802.4	842.3	72.7	84.2	72.7
87.5°	834.6	317.8	134.0	199.1	245.0	218.2	195.3	11.5	3.8	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)