

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: P528004

Luminaire Tested: **GALN-SA3A-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10168 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

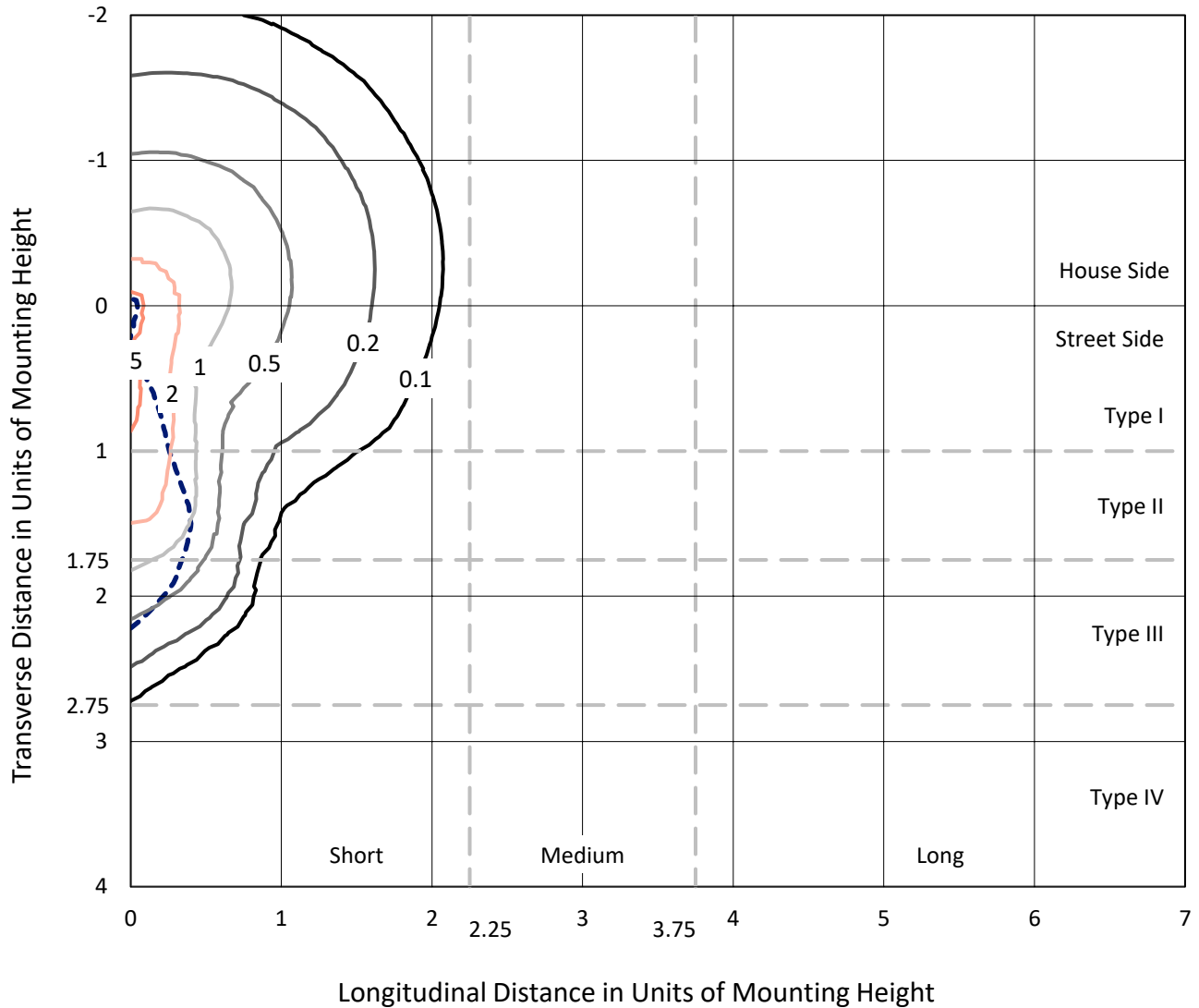
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

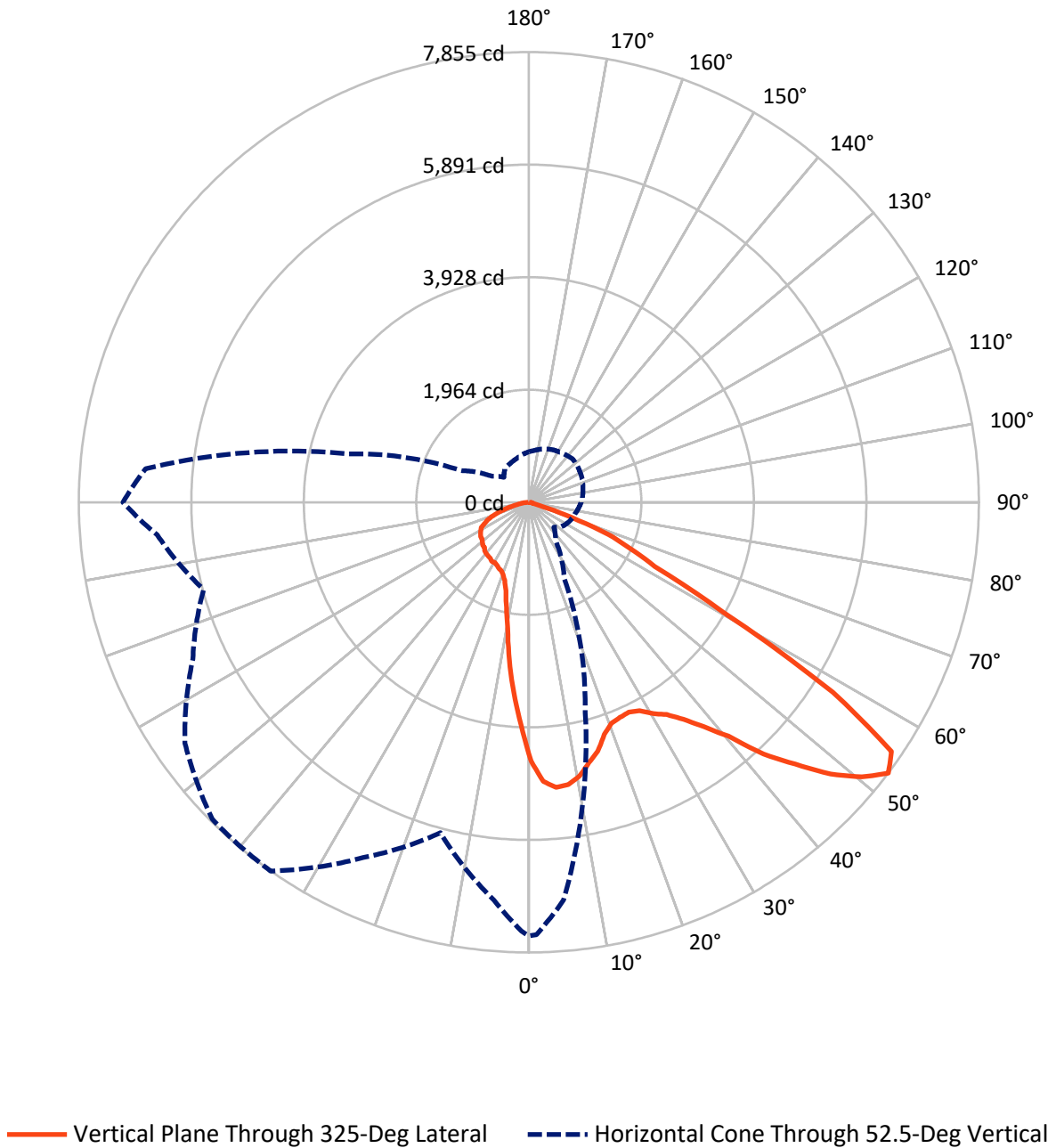
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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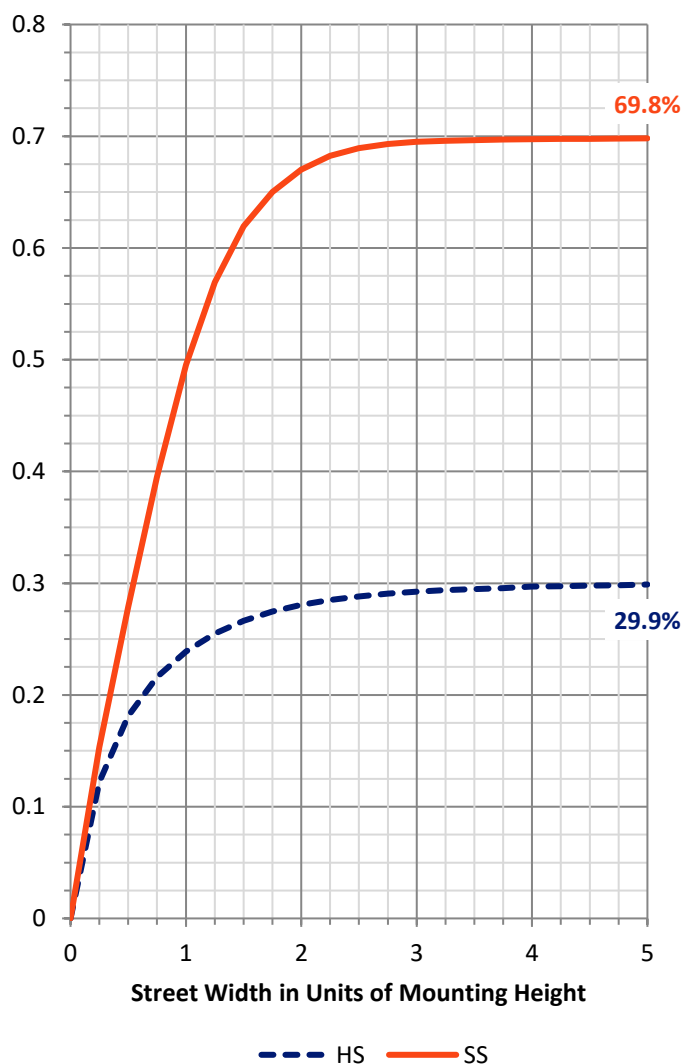
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3065.2	0.0	3065.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	7102.8	0.0	7102.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	10168.0	0.0	10168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	3.4
10°-20°	746.3	7.3
20°-30°	1127.6	11.1
30°-40°	1629.5	16.0
40°-50°	2168.6	21.3
50°-60°	2425.6	23.9
60°-70°	1367.1	13.4
70°-80°	304.7	3.0
80°-90°	54.3	0.5
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°	10168.0	100.0
0°-180°	10168.0	100.0

Coefficient of Utilization



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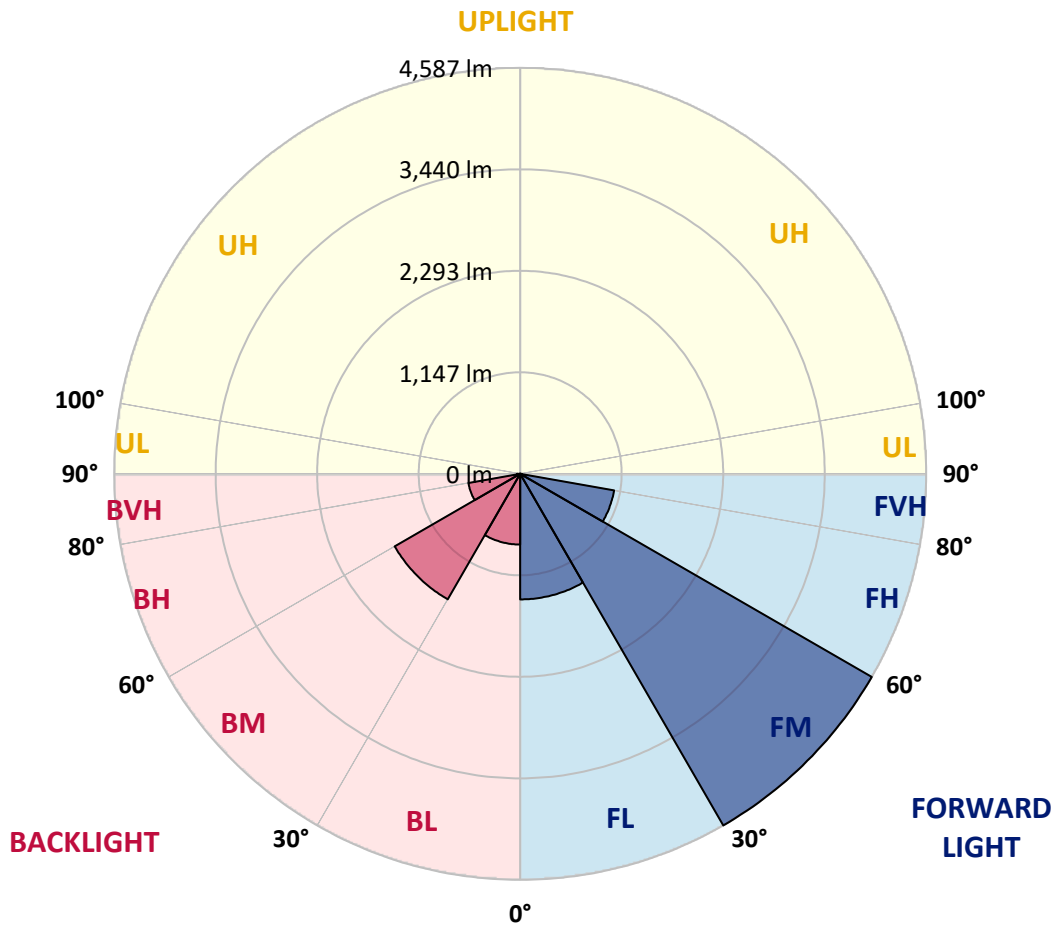
CATALOG NUMBER: GALN-SA3A-740-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.9	14.0			
FM (30°-60°)	4586.5	45.1			
FH (60°-80°)	1077.7	10.6			G1/1800
FVH (80°-90°)	19.6	0.2			G1/100
BL (0°-30°)	799.3	7.9	B2/1000		
BM (30°-60°)	1637.1	16.1	B2/2500		
BH (60°-80°)	594.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	34.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6
2.5°	4587.8	4661.5	4581.9	4440.4	4340.2	4248.8	4153.0	4133.9	4008.6	3986.5	3895.1
5°	4326.9	4310.7	4213.4	4027.8	3822.9	3637.2	3500.2	3367.5	3277.6	3173.0	3165.6
7.5°	4010.1	3915.8	3859.7	3578.3	3324.8	3033.0	2907.7	2705.8	2642.4	2548.1	2499.5
10°	3727.1	3657.8	3526.7	3245.2	2891.5	2698.4	2564.3	2455.3	2381.6	2284.3	2162.0
12.5°	3587.1	3559.1	3411.7	2975.5	2713.2	2506.8	2412.5	2306.4	2181.1	2024.9	1964.5
15°	3612.2	3517.8	3405.8	2923.9	2561.4	2362.4	2212.1	2079.5	1918.8	1770.0	1683.0
17.5°	3799.3	3727.1	3503.1	2956.3	2503.9	2216.5	1943.9	1747.9	1603.4	1469.3	1408.9
20°	4167.8	4063.1	3811.1	2997.6	2380.1	2013.1	1700.7	1459.0	1304.3	1233.5	1212.9
22.5°	4576.0	4514.1	4111.8	3090.5	2281.4	1824.5	1442.8	1201.1	1143.6	1124.5	1162.8
25°	5072.6	4912.0	4578.9	3242.2	2204.7	1663.9	1224.7	1090.6	1061.1	1080.3	1124.5
27.5°	5449.9	5407.2	4906.1	3385.2	2100.1	1470.8	1102.4	1013.9	1022.8	1041.9	1083.2
30°	5897.9	5681.3	5223.0	3483.9	2005.8	1338.2	1016.9	993.3	1002.1	1034.6	1055.2
32.5°	6167.6	6086.6	5421.9	3632.8	1896.7	1223.2	950.6	928.5	941.7	990.4	1039.0
35°	6511.0	6350.4	5668.0	3671.1	1820.1	1177.5	903.4	887.2	918.1	952.0	1006.6
37.5°	6911.9	6801.4	6008.5	3644.6	1778.8	1130.4	863.6	856.2	878.4	925.5	988.9
40°	7149.2	7115.3	6186.8	3660.8	1714.0	1089.1	817.9	826.8	872.5	909.3	971.2
42.5°	7377.6	7156.5	6450.6	3654.9	1672.7	1033.1	822.4	812.0	847.4	890.1	949.1
45°	7427.7	7208.1	6512.5	3613.6	1622.6	978.6	788.5	792.9	835.6	888.7	927.0
47.5°	7395.3	7233.2	6627.5	3601.8	1575.4	940.3	738.3	791.4	816.5	859.2	913.7
50°	7373.2	7364.3	6724.7	3657.8	1512.1	879.8	677.9	772.2	797.3	840.0	899.0
52.5°	7567.7	7548.5	6967.9	3805.2	1462.0	815.0	616.0	723.6	784.0	825.3	882.8
55°	7685.6	7601.6	7385.0	3986.5	1378.0	729.5	573.3	663.2	751.6	788.5	847.4
57.5°	6913.4	6855.9	6680.5	3721.2	1236.5	617.5	520.2	601.3	707.4	764.9	825.3
60°	5752.0	5662.1	5212.7	3162.7	912.3	480.4	487.8	552.7	695.6	717.7	788.5
62.5°	5423.4	5200.9	4589.3	2545.2	700.0	412.6	437.7	508.4	633.7	670.6	741.3
65°	4303.3	4138.3	3283.5	1837.8	468.7	358.1	399.4	458.3	546.8	619.0	683.8
67.5°	2694.0	2536.3	1752.3	869.5	327.2	306.5	356.6	418.5	490.8	555.6	627.8
70°	1407.4	1235.0	809.1	313.9	225.5	250.5	297.7	356.6	427.4	480.4	536.4
72.5°	524.7	425.9	263.8	135.6	156.2	191.6	241.7	284.4	334.5	399.4	430.3
75°	81.1	69.3	67.8	82.5	106.1	138.5	172.4	215.2	259.4	300.6	321.3
77.5°	38.3	36.8	41.3	54.5	70.7	98.7	125.3	166.5	201.9	228.4	240.2
80°	25.1	23.6	26.5	36.8	53.1	73.7	100.2	128.2	160.6	182.7	179.8
82.5°	14.7	16.2	16.2	25.1	36.8	53.1	72.2	97.3	119.4	138.5	126.7
85°	8.8	7.4	7.4	14.7	25.1	42.7	60.4	41.3	42.7	42.7	48.6
87.5°	2.9	2.9	2.9	1.5	2.9	2.9	4.4	7.4	8.8	10.3	13.3
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°	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6
2.5°	3892.2	3937.9	3921.6	3864.2	3908.4	3915.8	3886.3	3988.0	4007.1	3976.2	3985.0
5°	3155.3	3167.1	3193.6	3249.6	3289.4	3336.6	3336.6	3339.5	3299.7	3399.9	3370.5
7.5°	2458.2	2465.6	2496.5	2615.9	2649.8	2739.7	2778.0	2751.5	2671.9	2638.0	2666.0
10°	2122.2	2079.5	2069.1	2083.9	2160.5	2198.8	2231.3	2222.4	2209.2	2182.6	2153.1
12.5°	1898.2	1867.2	1842.2	1806.8	1811.2	1848.1	1873.1	1852.5	1858.4	1864.3	1873.1
15°	1655.0	1632.9	1619.7	1566.6	1560.7	1585.8	1594.6	1606.4	1628.5	1630.0	1619.7
17.5°	1397.1	1378.0	1407.4	1436.9	1416.3	1417.7	1434.0	1444.3	1438.4	1411.9	1398.6
20°	1220.3	1240.9	1270.4	1298.4	1320.5	1333.7	1339.6	1323.4	1304.3	1249.7	1248.3
22.5°	1168.7	1195.2	1220.3	1263.0	1283.6	1317.5	1286.6	1249.7	1223.2	1196.7	1165.7
25°	1130.4	1152.5	1202.6	1218.8	1258.6	1286.6	1264.5	1227.6	1181.9	1143.6	1120.0
27.5°	1102.4	1127.4	1159.8	1204.1	1235.0	1251.2	1229.1	1214.4	1167.2	1121.5	1087.6
30°	1084.7	1111.2	1170.2	1207.0	1233.5	1246.8	1208.5	1190.8	1156.9	1118.6	1089.1
32.5°	1072.9	1096.5	1146.6	1193.7	1211.4	1211.4	1217.3	1196.7	1149.5	1084.7	1059.6
35°	1034.6	1067.0	1108.3	1162.8	1195.2	1214.4	1184.9	1161.3	1130.4	1064.0	1018.4
37.5°	1012.5	1034.6	1087.6	1139.2	1167.2	1187.8	1176.1	1134.8	1093.5	1039.0	1002.1
40°	988.9	1024.3	1071.4	1120.0	1151.0	1171.6	1162.8	1114.2	1064.0	1012.5	987.4
42.5°	972.7	996.3	1044.9	1099.4	1136.3	1176.1	1149.5	1089.1	1053.7	983.0	955.0
45°	959.4	997.7	1049.3	1071.4	1109.7	1151.0	1103.8	1067.0	1025.7	974.1	950.6
47.5°	943.2	978.6	1012.5	1071.4	1089.1	1108.3	1099.4	1040.5	1005.1	949.1	932.9
50°	937.3	950.6	1012.5	1044.9	1069.9	1089.1	1065.5	1021.3	987.4	929.9	894.6
52.5°	913.7	938.8	978.6	1021.3	1052.3	1075.8	1037.5	1009.5	963.8	903.4	881.3
55°	884.2	899.0	969.7	1013.9	1030.2	1046.4	1031.6	985.9	938.8	876.9	854.8
57.5°	845.9	879.8	937.3	999.2	1019.8	1028.7	1005.1	968.3	909.3	854.8	819.4
60°	806.1	841.5	904.9	955.0	975.6	1008.0	972.7	950.6	882.8	822.4	784.0
62.5°	766.3	806.1	853.3	916.7	934.4	947.6	938.8	907.8	853.3	785.5	738.3
65°	719.2	748.7	807.6	840.0	851.8	882.8	851.8	840.0	791.4	726.6	686.8
67.5°	648.4	673.5	725.1	756.0	764.9	778.1	776.7	763.4	708.9	664.7	629.3
70°	567.4	589.5	621.9	658.8	663.2	679.4	664.7	661.7	626.3	565.9	546.8
72.5°	455.4	476.0	518.8	535.0	536.4	542.3	535.0	524.7	515.8	452.4	433.3
75°	349.3	361.1	381.7	396.4	396.4	403.8	399.4	389.1	365.5	325.7	306.5
77.5°	243.2	255.0	281.5	290.3	288.9	291.8	278.5	268.2	232.9	212.2	196.0
80°	176.8	184.2	197.5	203.4	204.9	209.3	193.1	184.2	163.6	140.0	132.6
82.5°	128.2	132.6	134.1	141.5	141.5	134.1	129.7	120.8	106.1	91.4	85.5
85°	53.1	54.5	56.0	64.8	66.3	79.6	73.7	69.3	60.4	51.6	47.2
87.5°	13.3	14.7	19.2	16.2	19.2	19.2	20.6	23.6	23.6	19.2	19.2
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°	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6
2.5°	4018.9	4030.7	4181.0	4200.2	4273.9	4349.0	4500.8	4609.9	4698.3	4755.8	4772.0
5°	3401.4	3476.6	3545.8	3657.8	3759.5	3904.0	4070.5	4276.8	4536.2	4668.8	4721.9
7.5°	2663.1	2751.5	2851.7	2960.8	3109.6	3369.0	3591.5	3830.3	4161.9	4298.9	4506.7
10°	2173.8	2272.5	2405.2	2489.2	2669.0	2916.6	3175.9	3451.5	3768.4	3965.9	4206.1
12.5°	1921.8	2002.8	2125.1	2302.0	2436.1	2596.7	2789.8	3137.6	3591.5	3778.7	3943.8
15°	1643.2	1733.1	1874.6	2070.6	2231.3	2422.8	2639.5	3018.2	3501.6	3790.5	3930.5
17.5°	1413.3	1478.2	1627.0	1796.5	1980.7	2190.0	2501.0	3012.3	3595.9	3965.9	4194.3
20°	1254.2	1263.0	1344.1	1488.5	1739.0	2011.7	2415.5	2982.9	3898.1	4268.0	4556.8
22.5°	1153.9	1145.1	1146.6	1268.9	1444.3	1836.3	2281.4	3083.1	4241.5	4748.4	4943.0
25°	1103.8	1080.3	1065.5	1092.0	1251.2	1628.5	2179.7	3215.7	4611.4	5144.9	5383.6
27.5°	1077.3	1036.0	1006.6	1011.0	1127.4	1523.9	2116.3	3273.2	4978.3	5697.5	5781.5
30°	1067.0	1015.4	972.7	957.9	1034.6	1378.0	1980.7	3371.9	5307.0	6001.1	6073.3
32.5°	1030.2	966.8	925.5	912.3	943.2	1249.7	1883.5	3442.7	5597.3	6331.2	6306.2
35°	987.4	934.4	882.8	857.7	879.8	1167.2	1805.3	3408.8	5939.2	6587.7	6574.4
37.5°	983.0	913.7	871.0	829.7	828.2	1065.5	1699.2	3441.2	6157.3	7047.5	6866.2
40°	944.7	900.5	844.5	810.6	791.4	1013.9	1596.1	3364.6	6477.1	7233.2	7054.8
42.5°	946.1	879.8	831.2	791.4	772.2	938.8	1525.3	3343.9	6589.1	7535.3	7143.3
45°	922.6	857.7	816.5	769.3	759.0	881.3	1457.5	3248.1	6786.6	7550.0	7032.7
47.5°	899.0	841.5	797.3	741.3	717.7	860.7	1404.5	3168.6	6683.5	7411.5	6879.5
50°	882.8	816.5	775.2	735.4	669.1	825.3	1335.2	3149.4	6539.0	7224.3	6595.0
52.5°	854.8	795.8	753.1	722.1	616.0	792.9	1308.7	3261.4	6715.9	7084.3	6512.5
55°	828.2	767.8	713.3	652.9	571.8	707.4	1235.0	3366.0	6973.8	7407.1	6886.8
57.5°	800.2	742.8	683.8	611.6	529.1	619.0	1158.4	3385.2	6490.4	6845.6	6537.6
60°	763.4	689.7	645.5	551.2	483.4	512.9	918.1	2984.3	5034.3	5716.7	5727.0
62.5°	722.1	642.6	604.2	493.7	436.2	442.1	748.7	2508.3	4083.8	4732.2	5013.7
65°	667.6	591.0	545.3	456.9	402.3	383.2	548.2	1837.8	3102.2	3839.1	4158.9
67.5°	596.9	524.7	467.2	397.9	359.6	328.6	374.3	1034.6	1831.9	2577.6	2674.9
70°	521.7	459.8	399.4	341.9	299.2	277.1	274.1	458.3	875.4	1386.8	1578.4
72.5°	411.2	367.0	318.3	275.6	247.6	215.2	196.0	190.1	296.2	564.4	779.6
75°	294.7	257.9	229.9	201.9	181.3	163.6	148.8	135.6	123.8	141.5	194.5
77.5°	185.7	172.4	150.3	143.0	131.2	126.7	120.8	113.5	104.6	98.7	98.7
80°	125.3	116.4	109.1	107.6	103.2	101.7	103.2	95.8	87.0	79.6	82.5
82.5°	84.0	82.5	81.1	79.6	81.1	82.5	85.5	84.0	76.6	72.2	73.7
85°	50.1	53.1	56.0	58.9	64.8	57.5	47.2	39.8	35.4	32.4	30.9
87.5°	19.2	26.5	23.6	22.1	23.6	22.1	20.6	19.2	16.2	14.7	14.7
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: P528004

CATALOG NUMBER: GALN-SA3A-740-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6	4512.6
2.5°	4879.6	4909.1	4934.1	4928.2	4876.6	4807.4	4779.4	4636.4	4606.9	4587.8
5°	4945.9	5116.9	5153.7	5131.6	4997.5	4828.0	4662.9	4453.7	4331.3	4326.9
7.5°	4823.6	5034.3	5100.6	5150.8	4972.4	4677.7	4394.7	4080.8	4004.2	4010.1
10°	4512.6	4848.6	5012.2	5063.8	4859.0	4604.0	4212.0	3893.6	3730.1	3727.1
12.5°	4340.2	4604.0	4649.7	4721.9	4661.5	4403.6	4105.9	3749.2	3590.1	3587.1
15°	4186.9	4360.8	4374.1	4475.8	4508.2	4334.3	4133.9	3753.6	3625.4	3612.2
17.5°	4321.0	4200.2	4150.1	4163.3	4259.1	4322.5	4296.0	4004.2	3873.0	3799.3
20°	4410.9	4141.2	3989.4	4004.2	4117.7	4349.0	4537.7	4366.7	4158.9	4167.8
22.5°	4651.2	4150.1	3912.8	3896.6	4076.4	4487.6	4810.3	4825.1	4624.6	4576.0
25°	5010.7	4251.8	3889.2	3884.8	4057.2	4636.4	5128.6	5367.4	5162.5	5072.6
27.5°	5299.6	4410.9	3962.9	3977.6	4117.7	4757.3	5399.8	5716.7	5560.5	5449.9
30°	5553.1	4576.0	4066.1	3998.3	4279.8	4820.6	5516.2	6114.6	5989.3	5897.9
32.5°	5657.7	4810.3	4229.7	4117.7	4413.9	4897.3	5757.9	6500.7	6393.1	6167.6
35°	5834.6	4941.5	4318.1	4309.2	4648.2	5081.5	5871.4	6755.7	6711.5	6511.0
37.5°	5976.1	5074.1	4632.0	4534.7	4969.5	5391.0	6054.2	7107.9	7006.2	6911.9
40°	6085.1	5311.4	4925.3	5053.5	5364.4	5672.5	6222.2	7130.0	7423.3	7149.2
42.5°	5984.9	5523.6	5407.2	5713.7	6008.5	5993.7	6241.3	7301.0	7520.5	7377.6
45°	5959.8	5883.2	6169.1	6447.7	6515.4	6260.5	6104.3	7112.3	7491.1	7427.7
47.5°	5899.4	6236.9	6735.0	7188.9	7085.8	6438.8	5940.7	7078.4	7508.8	7395.3
50°	5878.8	6313.5	7153.6	7595.7	7533.8	6593.6	5864.0	6860.3	7383.5	7373.2
52.5°	5877.3	6471.2	7327.5	7816.8	7855.1	6838.2	5968.7	6970.8	7480.8	7567.7
55°	5943.6	6421.1	7305.4	7694.4	7679.7	6729.1	5980.5	7044.5	7600.1	7685.6
57.5°	5606.1	5752.0	6029.1	6337.1	6257.5	5573.7	5340.9	6512.5	6975.3	6913.4
60°	4841.3	4384.4	4072.0	4057.2	3902.5	3688.8	4371.1	5812.5	5812.5	5752.0
62.5°	4240.0	2878.2	2473.0	2358.0	2468.5	2714.6	4216.4	5653.3	5492.7	5423.4
65°	3708.0	2197.4	1787.7	1755.2	1946.8	2318.2	3812.6	4816.2	4533.3	4303.3
67.5°	2386.0	1609.3	1329.3	1271.8	1503.2	1702.2	2537.8	2962.2	2783.9	2694.0
70°	1538.6	1047.8	739.8	694.1	784.0	1049.3	1621.1	1727.2	1467.9	1407.4
72.5°	728.0	452.4	259.4	213.7	240.2	400.9	641.1	689.7	573.3	524.7
75°	231.4	166.5	106.1	91.4	87.0	103.2	147.4	113.5	82.5	81.1
77.5°	103.2	98.7	84.0	70.7	61.9	51.6	42.7	35.4	36.8	38.3
80°	85.5	78.1	69.3	61.9	51.6	39.8	30.9	23.6	23.6	25.1
82.5°	75.2	67.8	60.4	51.6	44.2	32.4	23.6	16.2	14.7	14.7
85°	32.4	38.3	41.3	44.2	35.4	26.5	16.2	10.3	8.8	8.8
87.5°	13.3	11.8	10.3	8.8	7.4	7.4	5.9	4.4	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)