

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: P528550

Luminaire Tested: **GALN-SA3C-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528550
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-SA3C-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 11490 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

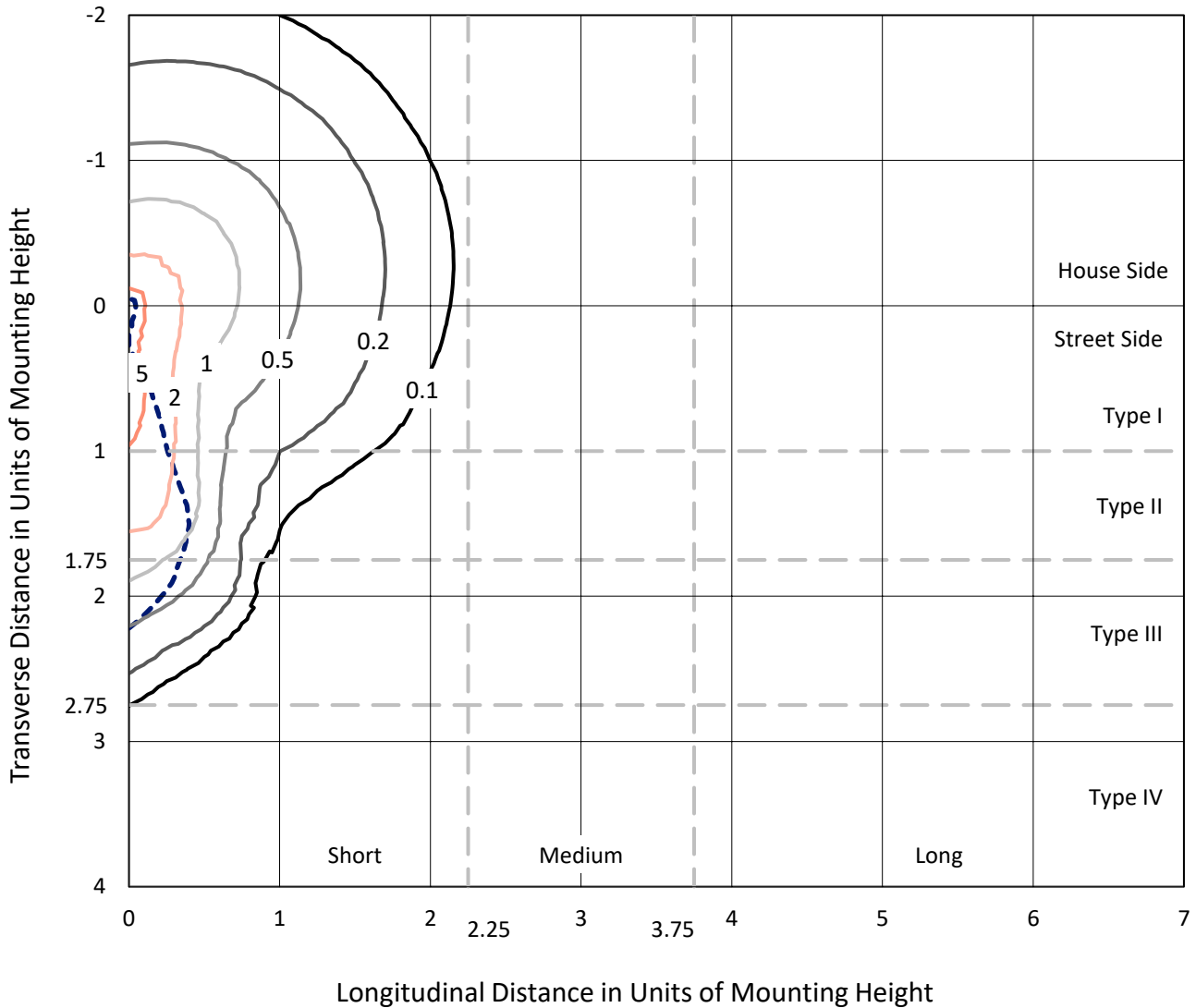
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

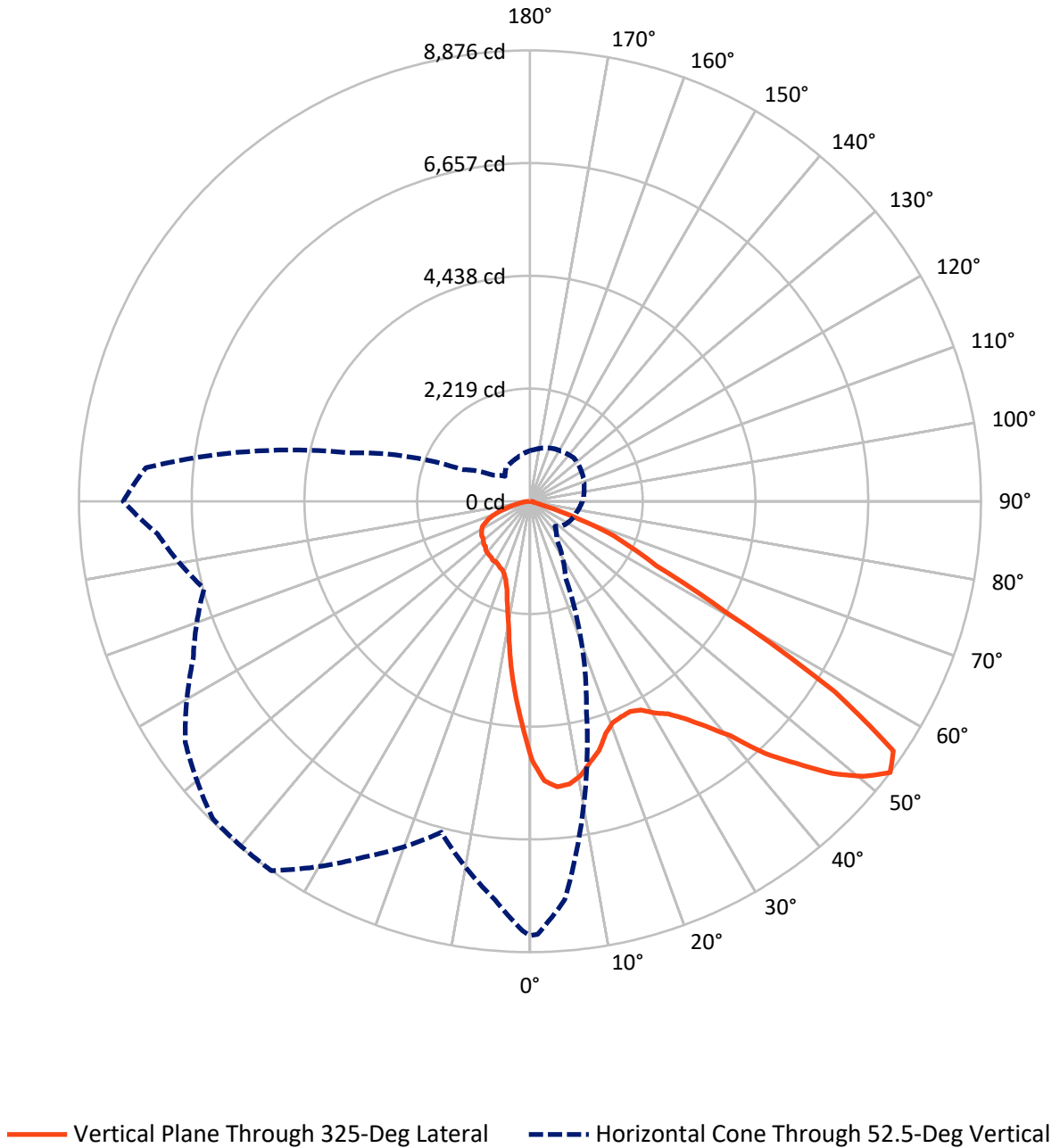
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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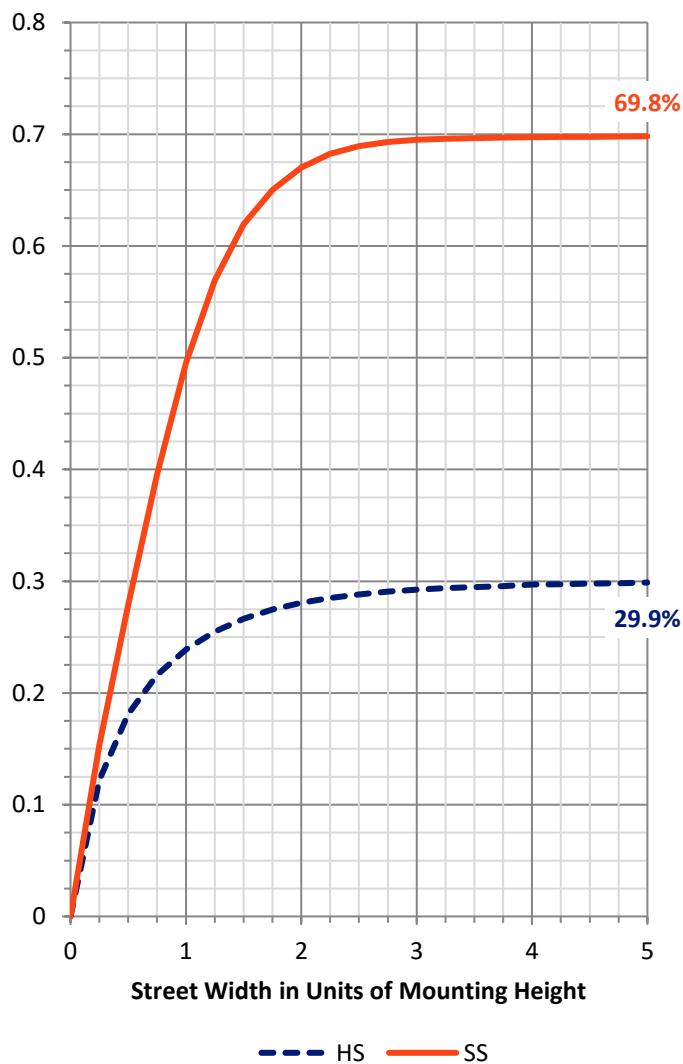
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3463.8	0.0	3463.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	8026.2	0.0	8026.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	11490.0	0.0	11490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.0	3.4
10°-20°	843.4	7.3
20°-30°	1274.3	11.1
30°-40°	1841.4	16.0
40°-50°	2450.5	21.3
50°-60°	2741.0	23.9
60°-70°	1544.8	13.4
70°-80°	344.4	3.0
80°-90°	61.3	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°	11490.0	100.0
0°-180°	11490.0	100.0

Coefficient of Utilization



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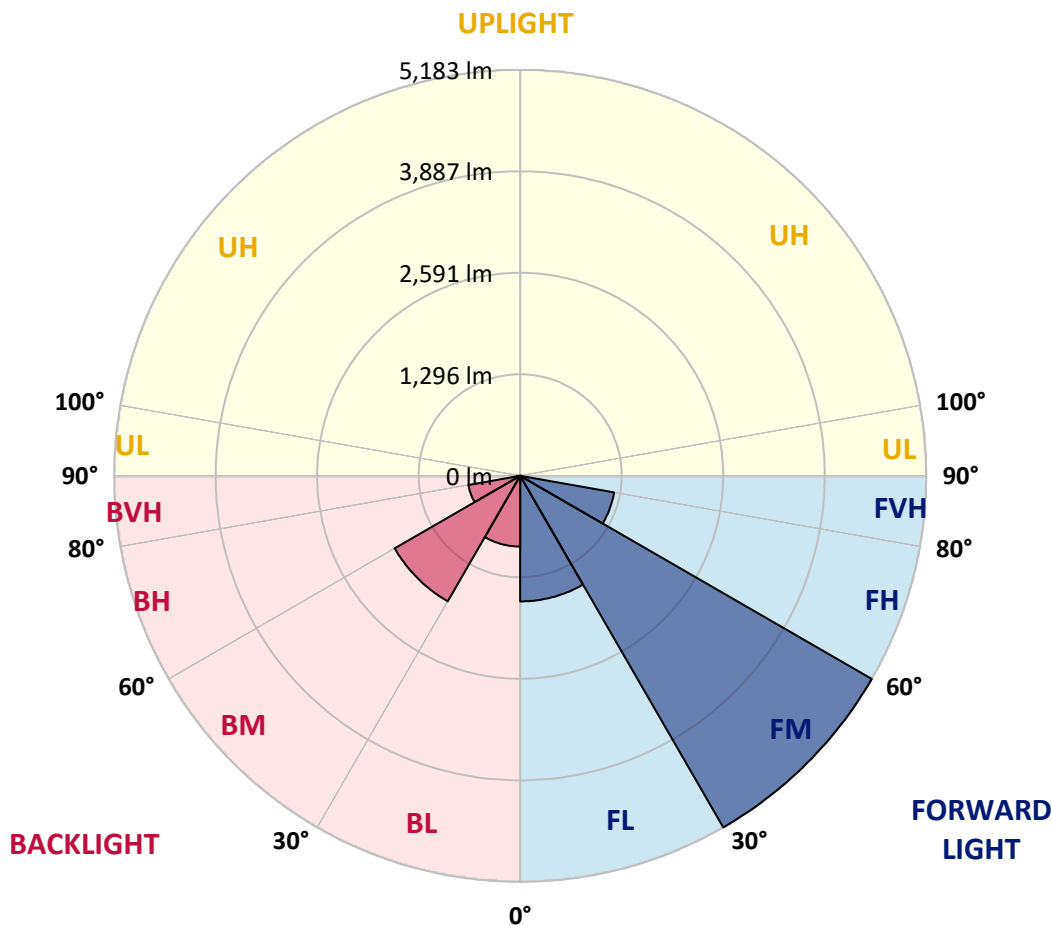
CATALOG NUMBER: GALN-SA3C-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.4	14.0			
FM (30°-60°)	5182.9	45.1			
FH (60°-80°)	1217.8	10.6			G1/1800
FVH (80°-90°)	22.2	0.2			G1/100
BL (0°-30°)	903.3	7.9	B2/1000		
BM (30°-60°)	1850.0	16.1	B2/2500		
BH (60°-80°)	671.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	39.1	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°	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3
2.5°	5184.3	5267.5	5177.6	5017.7	4904.5	4801.2	4693.0	4671.3	4529.8	4504.8	4401.5
5°	4889.5	4871.2	4761.3	4551.4	4319.9	4110.1	3955.2	3805.3	3703.8	3585.5	3577.2
7.5°	4531.4	4424.9	4361.6	4043.5	3757.1	3427.3	3285.8	3057.6	2986.0	2879.4	2824.5
10°	4211.7	4133.4	3985.2	3667.1	3267.4	3049.3	2897.7	2774.5	2691.2	2581.3	2443.1
12.5°	4053.5	4021.8	3855.3	3362.4	3065.9	2832.8	2726.2	2606.3	2464.7	2288.2	2219.9
15°	4081.8	3975.2	3848.6	3304.1	2894.4	2669.6	2499.7	2349.8	2168.3	2000.1	1901.8
17.5°	4293.3	4211.7	3958.6	3340.7	2829.4	2504.7	2196.6	1975.1	1811.9	1660.4	1592.1
20°	4709.6	4591.4	4306.6	3387.3	2689.6	2274.9	1921.8	1648.7	1473.8	1393.9	1370.6
22.5°	5170.9	5101.0	4646.4	3492.3	2578.0	2061.7	1630.4	1357.3	1292.3	1270.7	1314.0
25°	5732.2	5550.6	5174.3	3663.8	2491.4	1880.2	1383.9	1232.4	1199.1	1220.7	1270.7
27.5°	6158.5	6110.2	5544.0	3825.3	2373.1	1662.0	1245.7	1145.8	1155.8	1177.4	1224.0
30°	6664.8	6420.0	5902.0	3936.9	2266.6	1512.1	1149.1	1122.5	1132.4	1169.1	1192.4
32.5°	6969.5	6877.9	6126.9	4105.1	2143.3	1382.2	1074.2	1049.2	1064.2	1119.1	1174.1
35°	7357.6	7176.0	6405.0	4148.4	2056.7	1330.6	1020.9	1002.5	1037.5	1075.8	1137.4
37.5°	7810.5	7685.6	6789.7	4118.4	2010.1	1277.3	975.9	967.6	992.6	1045.8	1117.5
40°	8078.7	8040.4	6991.2	4136.8	1936.8	1230.7	924.3	934.3	985.9	1027.5	1097.5
42.5°	8336.8	8087.0	7289.3	4130.1	1890.2	1167.4	929.3	917.6	957.6	1005.9	1072.5
45°	8393.4	8145.3	7359.2	4083.5	1833.6	1105.8	891.0	896.0	944.3	1004.2	1047.5
47.5°	8356.8	8173.6	7489.1	4070.1	1780.3	1062.5	834.3	894.3	922.6	970.9	1032.5
50°	8331.8	8321.8	7599.0	4133.4	1708.7	994.2	766.1	872.6	901.0	949.3	1015.9
52.5°	8551.6	8530.0	7873.8	4300.0	1652.0	920.9	696.1	817.7	886.0	932.6	997.6
55°	8684.9	8589.9	8345.1	4504.8	1557.1	824.4	647.8	749.4	849.3	891.0	957.6
57.5°	7812.2	7747.3	7549.1	4205.0	1397.2	697.8	587.9	679.5	799.4	864.3	932.6
60°	6499.9	6398.3	5890.4	3573.9	1030.9	542.9	551.2	624.5	786.0	811.0	891.0
62.5°	6128.5	5877.1	5185.9	2876.1	791.0	466.3	494.6	574.5	716.1	757.7	837.7
65°	4862.9	4676.3	3710.4	2076.7	529.6	404.7	451.3	517.9	617.8	699.5	772.7
67.5°	3044.3	2866.1	1980.1	982.6	369.7	346.4	403.0	473.0	554.6	627.8	709.4
70°	1590.4	1395.6	914.3	354.7	254.8	283.1	336.4	403.0	483.0	542.9	606.2
72.5°	592.9	481.3	298.1	153.2	176.5	216.5	273.1	321.4	378.0	451.3	486.3
75°	91.6	78.3	76.6	93.3	119.9	156.5	194.8	243.1	293.1	339.7	363.0
77.5°	43.3	41.6	46.6	61.6	79.9	111.6	141.6	188.2	228.2	258.1	271.5
80°	28.3	26.6	30.0	41.6	60.0	83.3	113.2	144.9	181.5	206.5	203.2
82.5°	16.7	18.3	18.3	28.3	41.6	60.0	81.6	109.9	134.9	156.5	143.2
85°	10.0	8.3	8.3	16.7	28.3	48.3	68.3	46.6	48.3	48.3	55.0
87.5°	3.3	3.3	3.3	1.7	3.3	3.3	5.0	8.3	10.0	11.7	15.0
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°	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3
2.5°	4398.2	4449.8	4431.5	4366.6	4416.5	4424.9	4391.6	4506.5	4528.1	4493.1	4503.1
5°	3565.5	3578.9	3608.8	3672.1	3717.1	3770.4	3770.4	3773.7	3728.7	3842.0	3808.7
7.5°	2777.8	2786.1	2821.1	2956.0	2994.3	3095.9	3139.2	3109.2	3019.3	2981.0	3012.6
10°	2398.1	2349.8	2338.2	2354.8	2441.4	2484.7	2521.4	2511.4	2496.4	2466.4	2433.1
12.5°	2145.0	2110.0	2081.7	2041.7	2046.7	2088.4	2116.7	2093.4	2100.0	2106.7	2116.7
15°	1870.2	1845.2	1830.2	1770.3	1763.6	1791.9	1801.9	1815.2	1840.2	1841.9	1830.2
17.5°	1578.8	1557.1	1590.4	1623.7	1600.4	1602.1	1620.4	1632.1	1625.4	1595.4	1580.4
20°	1378.9	1402.2	1435.5	1467.2	1492.2	1507.2	1513.8	1495.5	1473.8	1412.2	1410.6
22.5°	1320.6	1350.6	1378.9	1427.2	1450.5	1488.8	1453.9	1412.2	1382.2	1352.3	1317.3
25°	1277.3	1302.3	1358.9	1377.3	1422.2	1453.9	1428.9	1387.2	1335.6	1292.3	1265.7
27.5°	1245.7	1274.0	1310.6	1360.6	1395.6	1413.9	1388.9	1372.3	1319.0	1267.3	1229.0
30°	1225.7	1255.7	1322.3	1363.9	1393.9	1408.9	1365.6	1345.6	1307.3	1264.0	1230.7
32.5°	1212.4	1239.0	1295.7	1348.9	1368.9	1368.9	1375.6	1352.3	1299.0	1225.7	1197.4
35°	1169.1	1205.7	1252.4	1314.0	1350.6	1372.3	1338.9	1312.3	1277.3	1202.4	1150.8
37.5°	1144.1	1169.1	1229.0	1287.3	1319.0	1342.3	1329.0	1282.3	1235.7	1174.1	1132.4
40°	1117.5	1157.4	1210.7	1265.7	1300.6	1324.0	1314.0	1259.0	1202.4	1144.1	1115.8
42.5°	1099.1	1125.8	1180.7	1242.4	1284.0	1329.0	1299.0	1230.7	1190.7	1110.8	1079.2
45°	1084.1	1127.4	1185.7	1210.7	1254.0	1300.6	1247.4	1205.7	1159.1	1100.8	1074.2
47.5°	1065.8	1105.8	1144.1	1210.7	1230.7	1252.4	1242.4	1175.7	1135.8	1072.5	1054.2
50°	1059.2	1074.2	1144.1	1180.7	1209.1	1230.7	1204.1	1154.1	1115.8	1050.8	1010.9
52.5°	1032.5	1060.8	1105.8	1154.1	1189.1	1215.7	1172.4	1140.8	1089.1	1020.9	995.9
55°	999.2	1015.9	1095.8	1145.8	1164.1	1182.4	1165.8	1114.1	1060.8	990.9	965.9
57.5°	955.9	994.2	1059.2	1129.1	1152.4	1162.4	1135.8	1094.1	1027.5	965.9	925.9
60°	911.0	950.9	1022.5	1079.2	1102.5	1139.1	1099.1	1074.2	997.6	929.3	886.0
62.5°	866.0	911.0	964.2	1035.9	1055.8	1070.8	1060.8	1025.9	964.2	887.6	834.3
65°	812.7	846.0	912.6	949.3	962.6	997.6	962.6	949.3	894.3	821.0	776.1
67.5°	732.8	761.1	819.4	854.3	864.3	879.3	877.6	862.7	801.0	751.1	711.1
70°	641.2	666.1	702.8	744.4	749.4	767.7	751.1	747.7	707.8	639.5	617.8
72.5°	514.6	537.9	586.2	604.5	606.2	612.9	604.5	592.9	582.9	511.3	489.6
75°	394.7	408.0	431.3	448.0	448.0	456.3	451.3	439.7	413.0	368.0	346.4
77.5°	274.8	288.1	318.1	328.1	326.4	329.7	314.8	303.1	263.1	239.8	221.5
80°	199.8	208.2	223.2	229.8	231.5	236.5	218.2	208.2	184.9	158.2	149.9
82.5°	144.9	149.9	151.5	159.9	159.9	151.5	146.6	136.6	119.9	103.3	96.6
85°	60.0	61.6	63.3	73.3	74.9	89.9	83.3	78.3	68.3	58.3	53.3
87.5°	15.0	16.7	21.6	18.3	21.6	21.6	23.3	26.6	26.6	21.6	21.6
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°	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3
2.5°	4541.4	4554.8	4724.6	4746.3	4829.5	4914.5	5086.0	5209.2	5309.2	5374.1	5392.4
5°	3843.7	3928.6	4006.9	4133.4	4248.3	4411.5	4599.7	4832.9	5126.0	5275.9	5335.8
7.5°	3009.3	3109.2	3222.5	3345.7	3513.9	3807.0	4058.5	4328.3	4703.0	4857.9	5092.7
10°	2456.4	2568.0	2717.9	2812.8	3016.0	3295.7	3588.9	3900.3	4258.3	4481.5	4752.9
12.5°	2171.6	2263.2	2401.4	2601.3	2752.8	2934.4	3152.5	3545.6	4058.5	4270.0	4456.5
15°	1856.9	1958.5	2118.3	2339.8	2521.4	2737.9	2982.7	3410.7	3956.9	4283.3	4441.5
17.5°	1597.1	1670.4	1838.6	2030.1	2238.2	2474.7	2826.1	3404.0	4063.5	4481.5	4739.6
20°	1417.2	1427.2	1518.8	1682.0	1965.1	2273.2	2729.5	3370.7	4404.9	4822.9	5149.3
22.5°	1304.0	1294.0	1295.7	1433.9	1632.1	2075.0	2578.0	3483.9	4792.9	5365.8	5585.6
25°	1247.4	1220.7	1204.1	1234.0	1413.9	1840.2	2463.1	3633.8	5210.9	5813.8	6083.6
27.5°	1217.4	1170.7	1137.4	1142.4	1274.0	1722.0	2391.5	3698.8	5625.6	6438.3	6533.2
30°	1205.7	1147.4	1099.1	1082.5	1169.1	1557.1	2238.2	3810.3	5997.0	6781.3	6862.9
32.5°	1164.1	1092.5	1045.8	1030.9	1065.8	1412.2	2128.3	3890.3	6325.0	7154.4	7126.1
35°	1115.8	1055.8	997.6	969.2	994.2	1319.0	2040.1	3852.0	6711.4	7444.2	7429.2
37.5°	1110.8	1032.5	984.2	937.6	935.9	1204.1	1920.2	3888.6	6957.9	7963.8	7758.9
40°	1067.5	1017.5	954.3	915.9	894.3	1145.8	1803.6	3802.0	7319.3	8173.6	7972.1
42.5°	1069.2	994.2	939.3	894.3	872.6	1060.8	1723.6	3778.7	7445.8	8515.0	8072.0
45°	1042.5	969.2	922.6	869.3	857.7	995.9	1647.0	3670.5	7669.0	8531.6	7947.1
47.5°	1015.9	950.9	901.0	837.7	811.0	972.6	1587.1	3580.5	7552.4	8375.1	7773.9
50°	997.6	922.6	876.0	831.0	756.1	932.6	1508.8	3558.9	7389.2	8163.6	7452.5
52.5°	965.9	899.3	851.0	816.0	696.1	896.0	1478.8	3685.4	7589.0	8005.4	7359.2
55°	935.9	867.7	806.0	737.8	646.2	799.4	1395.6	3803.7	7880.5	8370.1	7782.2
57.5°	904.3	839.3	772.7	691.1	597.9	699.5	1309.0	3825.3	7334.2	7735.6	7387.5
60°	862.7	779.4	729.4	622.8	546.2	579.5	1037.5	3372.4	5688.9	6459.9	6471.6
62.5°	816.0	726.1	682.8	557.9	492.9	499.6	846.0	2834.4	4614.7	5347.5	5665.6
65°	754.4	667.8	616.2	516.3	454.6	433.0	619.5	2076.7	3505.6	4338.3	4699.6
67.5°	674.5	592.9	527.9	449.6	406.3	371.4	423.0	1169.1	2070.0	2912.7	3022.6
70°	589.5	519.6	451.3	386.4	338.1	313.1	309.8	517.9	989.2	1567.1	1783.6
72.5°	464.6	414.7	359.7	311.4	279.8	243.1	221.5	214.8	334.7	637.8	881.0
75°	333.1	291.4	259.8	228.2	204.8	184.9	168.2	153.2	139.9	159.9	219.8
77.5°	209.8	194.8	169.9	161.5	148.2	143.2	136.6	128.2	118.2	111.6	111.6
80°	141.6	131.6	123.2	121.6	116.6	114.9	116.6	108.2	98.3	89.9	93.3
82.5°	94.9	93.3	91.6	89.9	91.6	93.3	96.6	94.9	86.6	81.6	83.3
85°	56.6	60.0	63.3	66.6	73.3	64.9	53.3	45.0	40.0	36.6	35.0
87.5°	21.6	30.0	26.6	25.0	26.6	25.0	23.3	21.6	18.3	16.7	16.7
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: P528550

CATALOG NUMBER: GALN-SA3C-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3	5099.3
2.5°	5514.0	5547.3	5575.6	5569.0	5510.7	5432.4	5400.8	5239.2	5205.9	5184.3
5°	5588.9	5782.1	5823.8	5798.8	5647.2	5455.7	5269.2	5032.7	4894.5	4889.5
7.5°	5450.7	5688.9	5763.8	5820.4	5618.9	5285.9	4966.1	4611.4	4524.8	4531.4
10°	5099.3	5479.0	5663.9	5722.2	5490.7	5202.6	4759.6	4399.9	4215.0	4211.7
12.5°	4904.5	5202.6	5254.2	5335.8	5267.5	4976.1	4639.7	4236.7	4056.8	4053.5
15°	4731.3	4927.8	4942.8	5057.7	5094.3	4897.8	4671.3	4241.7	4096.8	4081.8
17.5°	4882.8	4746.3	4689.7	4704.6	4812.9	4884.5	4854.5	4524.8	4376.6	4293.3
20°	4984.4	4679.7	4508.1	4524.8	4653.0	4914.5	5127.6	4934.5	4699.6	4709.6
22.5°	5255.9	4689.7	4421.5	4403.2	4606.4	5071.0	5435.7	5452.4	5225.9	5170.9
25°	5662.2	4804.6	4394.9	4389.9	4584.7	5239.2	5795.5	6065.2	5833.8	5732.2
27.5°	5988.6	4984.4	4478.2	4494.8	4653.0	5375.8	6101.9	6459.9	6283.4	6158.5
30°	6275.1	5170.9	4594.7	4518.1	4836.2	5447.4	6233.4	6909.6	6768.0	6664.8
32.5°	6393.3	5435.7	4779.6	4653.0	4987.8	5534.0	6506.6	7345.9	7224.3	6969.5
35°	6593.2	5584.0	4879.5	4869.5	5252.5	5742.2	6634.8	7634.0	7584.0	7357.6
37.5°	6753.0	5733.8	5234.2	5124.3	5615.6	6091.9	6841.3	8032.0	7917.1	7810.5
40°	6876.3	6002.0	5565.6	5710.5	6061.9	6410.0	7031.2	8057.0	8388.4	8078.7
42.5°	6763.0	6241.8	6110.2	6456.6	6789.7	6773.0	7052.8	8250.2	8498.3	8336.8
45°	6734.7	6648.1	6971.2	7286.0	7362.6	7074.4	6897.9	8037.0	8465.0	8393.4
47.5°	6666.4	7047.8	7610.7	8123.6	8007.1	7276.0	6713.1	7998.7	8485.0	8356.8
50°	6643.1	7134.4	8083.7	8583.3	8513.3	7450.8	6626.5	7752.3	8343.5	8331.8
52.5°	6641.5	7312.6	8280.2	8833.1	8876.4	7727.3	6744.7	7877.2	8453.4	8551.6
55°	6716.4	7256.0	8255.2	8694.8	8678.2	7604.0	6758.0	7960.4	8588.3	8684.9
57.5°	6335.0	6499.9	6813.0	7161.0	7071.1	6298.4	6035.3	7359.2	7882.1	7812.2
60°	5470.7	4954.4	4601.4	4584.7	4409.9	4168.4	4939.5	6568.2	6568.2	6499.9
62.5°	4791.2	3252.4	2794.5	2664.6	2789.5	3067.6	4764.6	6388.3	6206.8	6128.5
65°	4190.0	2483.1	2020.1	1983.4	2199.9	2619.6	4308.3	5442.4	5122.6	4862.9
67.5°	2696.2	1818.6	1502.2	1437.2	1698.7	1923.5	2867.8	3347.4	3145.9	3044.3
70°	1738.6	1184.1	836.0	784.4	886.0	1185.7	1831.9	1951.8	1658.7	1590.4
72.5°	822.7	511.3	293.1	241.5	271.5	453.0	724.4	779.4	647.8	592.9
75°	261.5	188.2	119.9	103.3	98.3	116.6	166.5	128.2	93.3	91.6
77.5°	116.6	111.6	94.9	79.9	69.9	58.3	48.3	40.0	41.6	43.3
80°	96.6	88.3	78.3	69.9	58.3	45.0	35.0	26.6	26.6	28.3
82.5°	84.9	76.6	68.3	58.3	50.0	36.6	26.6	18.3	16.7	16.7
85°	36.6	43.3	46.6	50.0	40.0	30.0	18.3	11.7	10.0	10.0
87.5°	15.0	13.3	11.7	10.0	8.3	8.3	6.7	5.0	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)