

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: P528420

Luminaire Tested: **GALN-SA3C-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528420
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-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 14235 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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

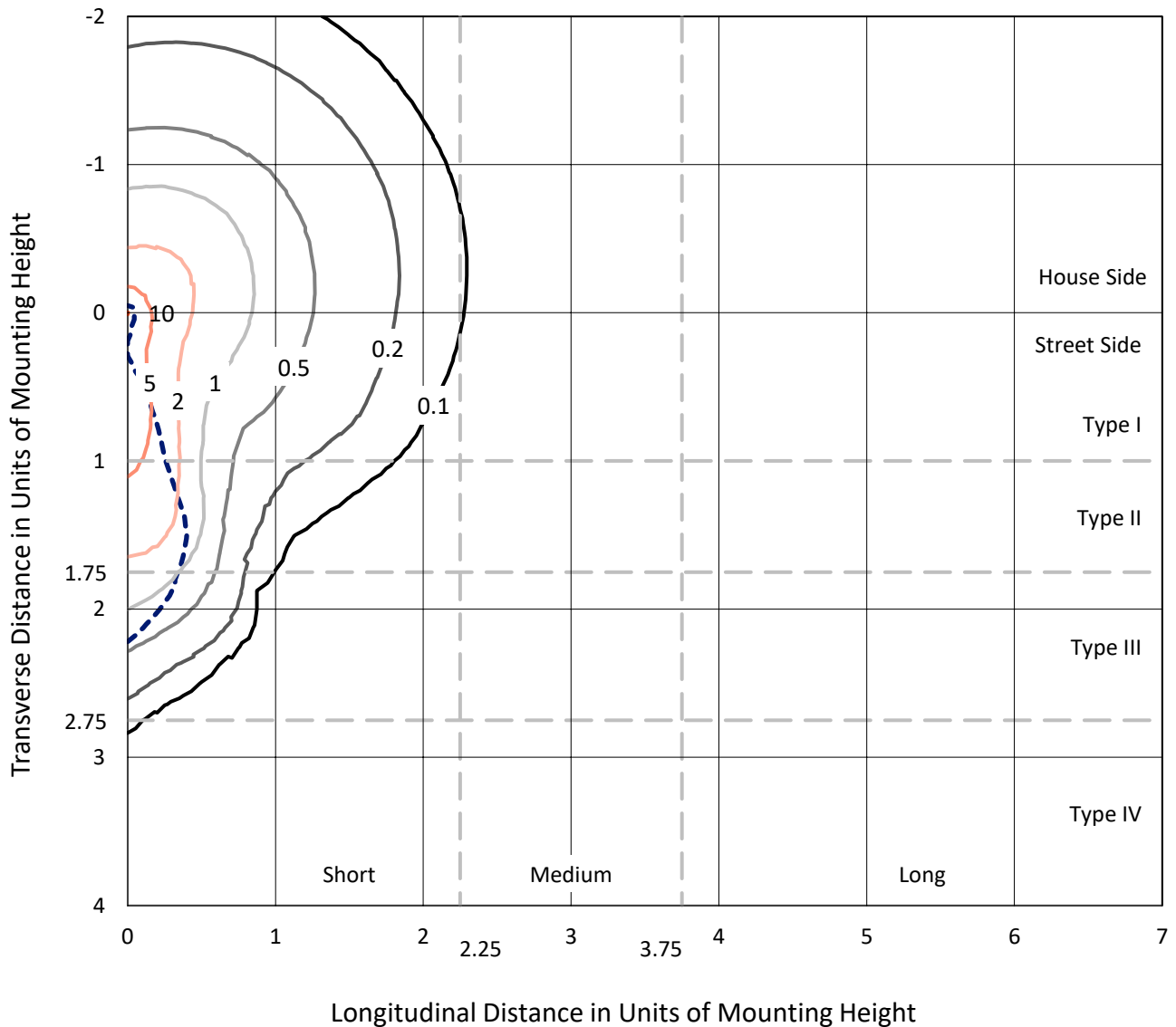




REPORT NUMBER: P528420
 CATALOG NUMBER: GALN-SA3C-730-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

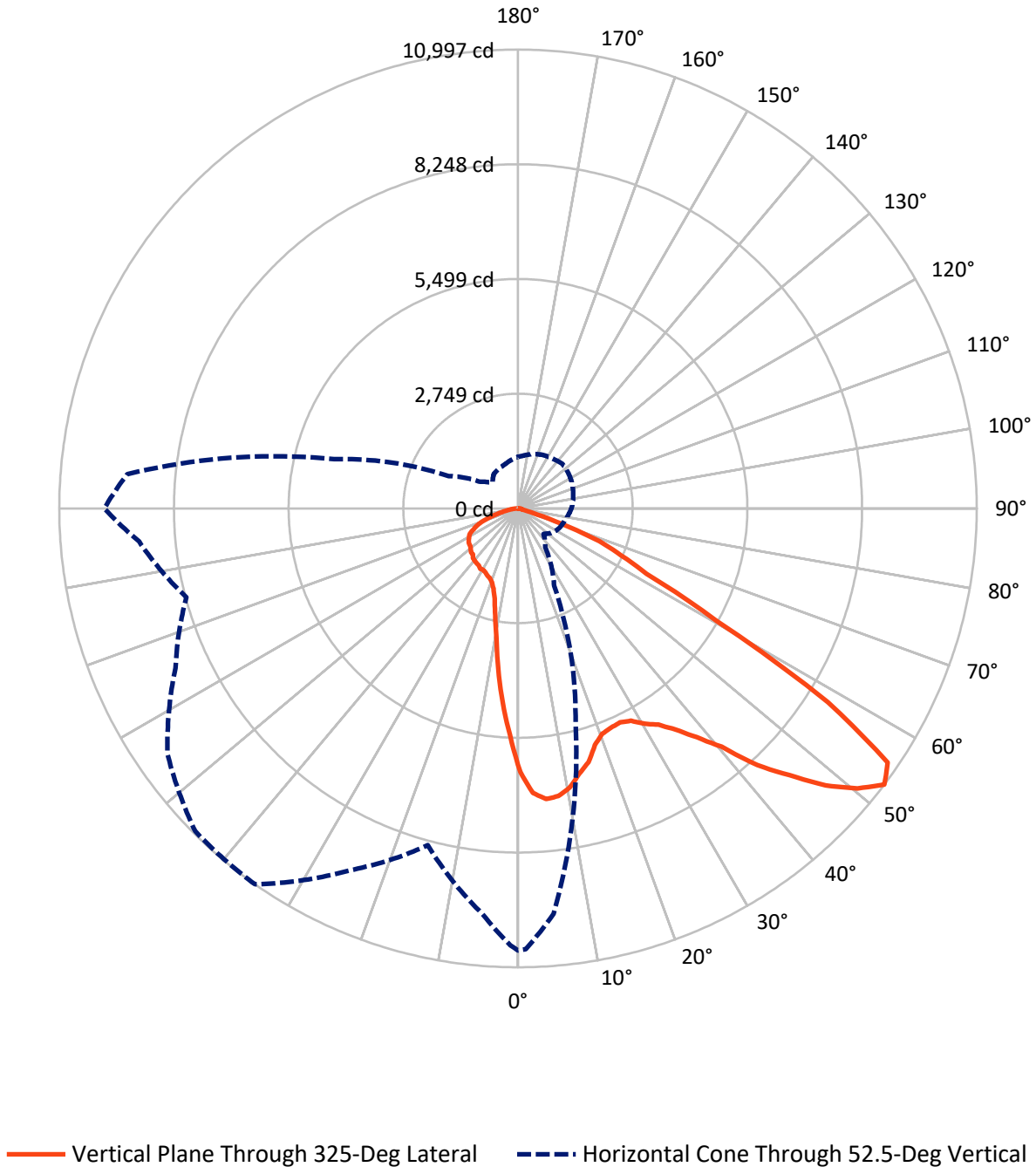
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

REPORT NUMBER: P528420
CATALOG NUMBER: GALN-SA3C-730-U-SLR-GRSWH

Luminous Intensity Polar Plot



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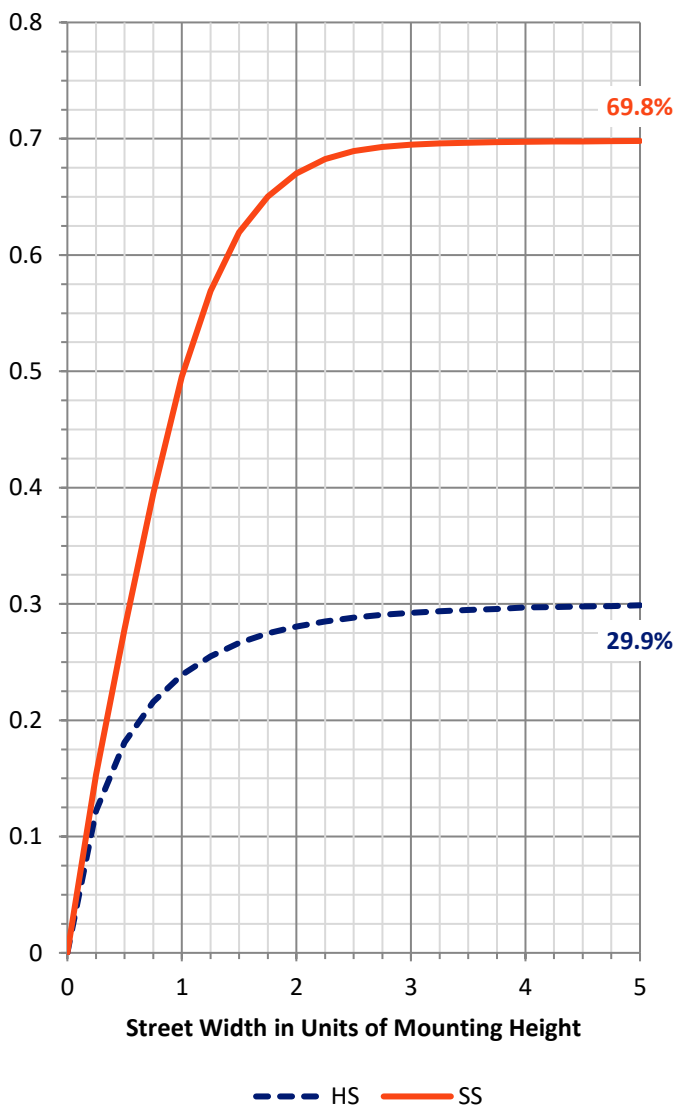
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4291.3	0.0	4291.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9943.7	0.0	9943.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	14235.0	0.0	14235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.0	3.4
10°-20°	1044.9	7.3
20°-30°	1578.7	11.1
30°-40°	2281.3	16.0
40°-50°	3036.0	21.3
50°-60°	3395.8	23.9
60°-70°	1913.9	13.4
70°-80°	426.6	3.0
80°-90°	76.0	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°	14235.0	100.0
0°-180°	14235.0	100.0

Coefficient of Utilization



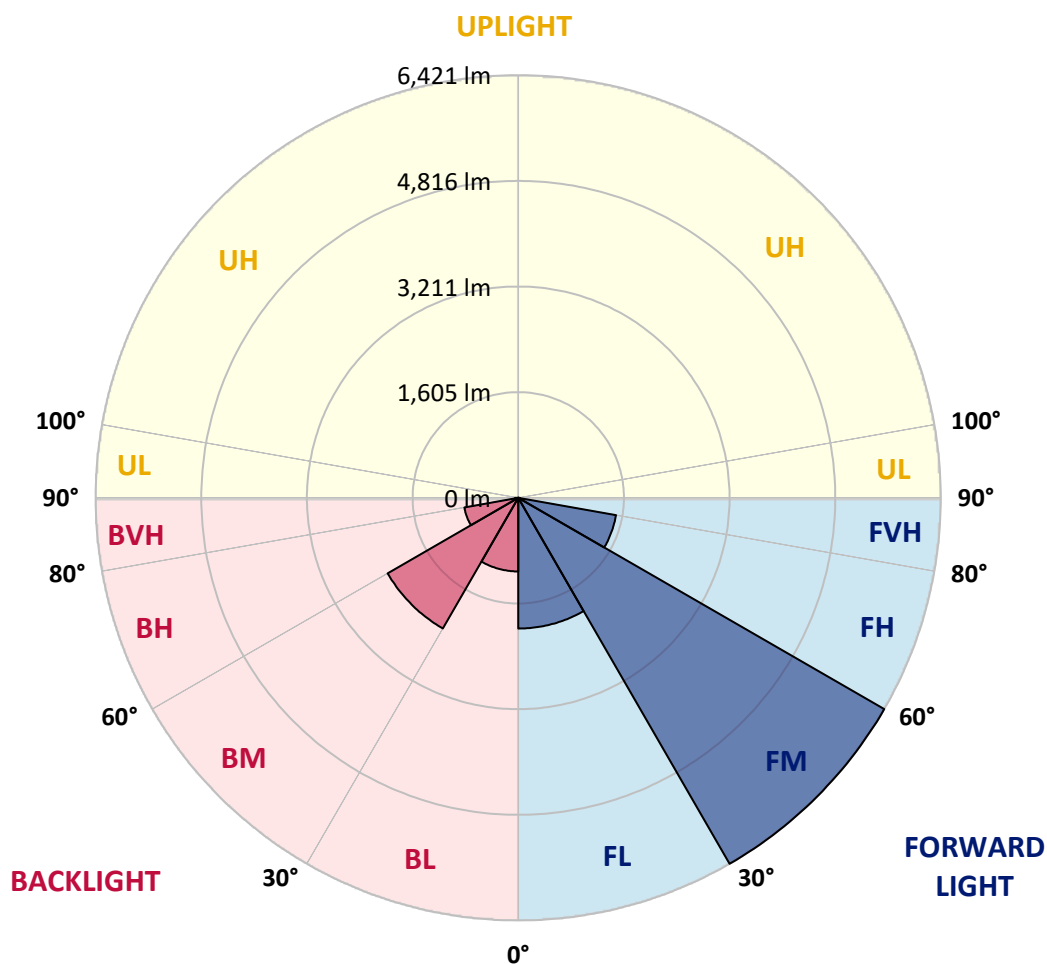
REPORT NUMBER: P528420
 CATALOG NUMBER: GALN-SA3C-730-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.5	14.0			
FM (30°-60°)	6421.1	45.1			
FH (60°-80°)	1508.7	10.6			G1/1800
FVH (80°-90°)	27.5	0.2			G1/100
BL (0°-30°)	1119.1	7.9	B3/2500		
BM (30°-60°)	2292.0	16.1	B2/2500		
BH (60°-80°)	831.8	5.8	B2/1000		G2/1000
BVH (80°-90°)	48.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





REPORT NUMBER: P528420

CATALOG NUMBER: GALN-SA3C-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6
2.5°	6422.8	6526.0	6414.6	6216.5	6076.2	5948.3	5814.2	5787.3	5612.0	5581.0	5453.1
5°	6057.6	6034.9	5898.7	5638.8	5352.0	5092.0	4900.1	4714.5	4588.6	4442.1	4431.8
7.5°	5614.0	5482.0	5403.6	5009.5	4654.6	4246.1	4070.7	3788.1	3699.4	3567.3	3499.2
10°	5217.9	5120.9	4937.3	4543.2	4048.0	3777.8	3590.0	3437.3	3334.2	3198.0	3026.7
12.5°	5021.9	4982.7	4776.4	4165.6	3798.4	3509.5	3377.5	3228.9	3053.6	2834.9	2750.3
15°	5057.0	4924.9	4768.1	4093.4	3585.9	3307.3	3096.9	2911.2	2686.3	2477.9	2356.2
17.5°	5319.0	5217.9	4904.3	4138.8	3505.4	3103.1	2721.4	2447.0	2244.8	2057.0	1972.4
20°	5834.8	5688.3	5335.5	4196.6	3332.1	2818.4	2381.0	2042.6	1825.9	1726.9	1698.0
22.5°	6406.3	6319.6	5756.4	4326.6	3193.9	2554.3	2019.9	1681.5	1601.1	1574.2	1627.9
25°	7101.6	6876.7	6410.4	4539.1	3086.6	2329.4	1714.5	1526.8	1485.5	1512.3	1574.2
27.5°	7629.8	7570.0	6868.5	4739.2	2940.1	2059.1	1543.3	1419.5	1431.9	1458.7	1516.5
30°	8257.0	7953.7	7312.1	4877.5	2808.0	1873.4	1423.6	1390.6	1403.0	1448.4	1477.3
32.5°	8634.6	8521.1	7590.6	5085.8	2655.4	1712.5	1330.8	1299.8	1318.4	1386.5	1454.6
35°	9115.3	8890.4	7935.1	5139.5	2548.1	1648.5	1264.8	1242.1	1285.4	1332.8	1409.2
37.5°	9676.5	9521.8	8411.7	5102.3	2490.3	1582.5	1209.0	1198.7	1229.7	1295.7	1384.4
40°	10008.7	9961.2	8661.4	5125.0	2399.5	1524.7	1145.1	1157.5	1221.4	1273.0	1359.7
42.5°	10328.5	10019.0	9030.7	5116.8	2341.8	1446.3	1151.3	1136.8	1186.4	1246.2	1328.7
45°	10398.6	10091.2	9117.4	5059.0	2271.6	1370.0	1103.8	1110.0	1169.8	1244.1	1297.8
47.5°	10353.2	10126.3	9278.3	5042.5	2205.6	1316.3	1033.7	1107.9	1143.0	1202.9	1279.2
50°	10322.3	10309.9	9414.5	5120.9	2116.9	1231.7	949.1	1081.1	1116.2	1176.0	1258.6
52.5°	10594.6	10567.8	9754.9	5327.2	2046.7	1141.0	862.4	1013.0	1097.6	1155.4	1235.9
55°	10759.7	10642.1	10338.8	5581.0	1929.1	1021.3	802.6	928.4	1052.2	1103.8	1186.4
57.5°	9678.6	9598.1	9352.6	5209.6	1731.0	864.5	728.3	841.8	990.3	1070.8	1155.4
60°	8052.7	7926.9	7297.6	4427.7	1277.1	672.6	682.9	773.7	973.8	1004.8	1103.8
62.5°	7592.7	7281.1	6424.9	3563.2	980.0	577.7	612.8	711.8	887.2	938.8	1037.8
65°	6024.6	5793.5	4596.9	2572.8	656.1	501.4	559.1	641.7	765.5	866.6	957.3
67.5°	3771.6	3550.8	2453.2	1217.3	458.0	429.1	499.3	586.0	687.1	777.8	878.9
70°	1970.4	1729.0	1132.7	439.5	315.7	350.7	416.8	499.3	598.3	672.6	751.0
72.5°	734.5	596.3	369.3	189.8	218.7	268.2	338.4	398.2	468.4	559.1	602.5
75°	113.5	97.0	94.9	115.5	148.6	193.9	241.4	301.2	363.1	420.9	449.8
77.5°	53.6	51.6	57.8	76.3	99.0	138.2	175.4	233.1	282.7	319.8	336.3
80°	35.1	33.0	37.1	51.6	74.3	103.2	140.3	179.5	224.9	255.8	251.7
82.5°	20.6	22.7	22.7	35.1	51.6	74.3	101.1	136.2	167.1	193.9	177.4
85°	12.4	10.3	10.3	20.6	35.1	59.8	84.6	57.8	59.8	59.8	68.1
87.5°	4.1	4.1	4.1	2.1	4.1	4.1	6.2	10.3	12.4	14.4	18.6
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: P528420

CATALOG NUMBER: GALN-SA3C-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6
2.5°	5449.0	5512.9	5490.2	5409.8	5471.7	5482.0	5440.7	5583.1	5609.9	5566.6	5578.9
5°	4417.4	4433.9	4471.0	4549.4	4605.1	4671.1	4671.1	4675.3	4619.6	4759.8	4718.6
7.5°	3441.5	3451.8	3495.1	3662.2	3709.7	3835.5	3889.2	3852.0	3740.6	3693.2	3732.4
10°	2971.0	2911.2	2896.8	2917.4	3024.7	3078.3	3123.7	3111.3	3092.8	3055.6	3014.4
12.5°	2657.4	2614.1	2579.0	2529.5	2535.7	2587.3	2622.4	2593.5	2601.7	2610.0	2622.4
15°	2317.0	2286.0	2267.5	2193.2	2185.0	2220.0	2232.4	2248.9	2279.9	2281.9	2267.5
17.5°	1955.9	1929.1	1970.4	2011.6	1982.8	1984.8	2007.5	2022.0	2013.7	1976.6	1958.0
20°	1708.3	1737.2	1778.5	1817.7	1848.6	1867.2	1875.5	1852.8	1825.9	1749.6	1747.5
22.5°	1636.1	1673.3	1708.3	1768.2	1797.1	1844.5	1801.2	1749.6	1712.5	1675.3	1632.0
25°	1582.5	1613.4	1683.6	1706.3	1762.0	1801.2	1770.2	1718.7	1654.7	1601.1	1568.0
27.5°	1543.3	1578.4	1623.8	1685.7	1729.0	1751.7	1720.7	1700.1	1634.1	1570.1	1522.7
30°	1518.5	1555.7	1638.2	1689.8	1726.9	1745.5	1691.8	1667.1	1619.6	1566.0	1524.7
32.5°	1502.0	1535.0	1605.2	1671.2	1696.0	1696.0	1704.2	1675.3	1609.3	1518.5	1483.5
35°	1448.4	1493.8	1551.5	1627.9	1673.3	1700.1	1658.8	1625.8	1582.5	1489.6	1425.7
37.5°	1417.4	1448.4	1522.7	1594.9	1634.1	1663.0	1646.4	1588.7	1530.9	1454.6	1403.0
40°	1384.4	1433.9	1500.0	1568.0	1611.4	1640.3	1627.9	1559.8	1489.6	1417.4	1382.4
42.5°	1361.7	1394.7	1462.8	1539.2	1590.7	1646.4	1609.3	1524.7	1475.2	1376.2	1337.0
45°	1343.2	1396.8	1469.0	1500.0	1553.6	1611.4	1545.4	1493.8	1436.0	1363.8	1330.8
47.5°	1320.5	1370.0	1417.4	1500.0	1524.7	1551.5	1539.2	1456.6	1407.1	1328.7	1306.0
50°	1312.2	1330.8	1417.4	1462.8	1497.9	1524.7	1491.7	1429.8	1382.4	1301.9	1252.4
52.5°	1279.2	1314.3	1370.0	1429.8	1473.1	1506.2	1452.5	1413.3	1349.3	1264.8	1233.8
55°	1237.9	1258.6	1357.6	1419.5	1442.2	1464.9	1444.3	1380.3	1314.3	1227.6	1196.7
57.5°	1184.3	1231.7	1312.2	1398.9	1427.7	1440.1	1407.1	1355.5	1273.0	1196.7	1147.2
60°	1128.6	1178.1	1266.8	1337.0	1365.9	1411.2	1361.7	1330.8	1235.9	1151.3	1097.6
62.5°	1072.9	1128.6	1194.6	1283.3	1308.1	1326.7	1314.3	1270.9	1194.6	1099.7	1033.7
65°	1006.9	1048.1	1130.6	1176.0	1192.5	1235.9	1192.5	1176.0	1107.9	1017.2	961.5
67.5°	907.8	942.9	1015.1	1058.4	1070.8	1089.4	1087.3	1068.7	992.4	930.5	881.0
70°	794.3	825.3	870.7	922.3	928.4	951.1	930.5	926.4	876.9	792.3	765.5
72.5°	637.5	666.4	726.3	748.9	751.0	759.3	748.9	734.5	722.1	633.4	606.6
75°	489.0	505.5	534.4	555.0	555.0	565.3	559.1	544.7	511.7	456.0	429.1
77.5°	340.4	356.9	394.1	406.5	404.4	408.5	389.9	375.5	326.0	297.1	274.4
80°	247.6	257.9	276.5	284.7	286.8	293.0	270.3	257.9	229.0	196.0	185.7
82.5°	179.5	185.7	187.8	198.1	198.1	187.8	181.6	169.2	148.6	127.9	119.7
85°	74.3	76.3	78.4	90.8	92.8	111.4	103.2	97.0	84.6	72.2	66.0
87.5°	18.6	20.6	26.8	22.7	26.8	26.8	28.9	33.0	33.0	26.8	26.8
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°	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6
2.5°	5626.4	5642.9	5853.4	5880.2	5983.3	6088.6	6301.1	6453.8	6577.5	6658.0	6680.7
5°	4761.9	4867.1	4964.1	5120.9	5263.3	5465.5	5698.6	5987.5	6350.6	6536.3	6610.6
7.5°	3728.2	3852.0	3992.3	4145.0	4353.4	4716.5	5028.1	5362.3	5826.5	6018.4	6309.3
10°	3043.2	3181.5	3367.2	3484.8	3736.5	4083.1	4446.2	4832.1	5275.7	5552.1	5888.4
12.5°	2690.4	2803.9	2975.2	3222.8	3410.5	3635.4	3905.7	4392.6	5028.1	5290.1	5521.2
15°	2300.5	2426.3	2624.4	2898.8	3123.7	3391.9	3695.2	4225.5	4902.2	5306.6	5502.6
17.5°	1978.6	2069.4	2277.8	2515.1	2773.0	3065.9	3501.3	4217.2	5034.3	5552.1	5871.9
20°	1755.8	1768.2	1881.7	2083.9	2434.6	2816.3	3381.6	4176.0	5457.2	5975.1	6379.5
22.5°	1615.5	1603.1	1605.2	1776.4	2022.0	2570.8	3193.9	4316.3	5937.9	6647.7	6920.0
25°	1545.4	1512.3	1491.7	1528.8	1751.7	2279.9	3051.5	4501.9	6455.8	7202.7	7536.9
27.5°	1508.2	1450.4	1409.2	1415.4	1578.4	2133.4	2962.8	4582.4	6969.6	7976.4	8094.0
30°	1493.8	1421.6	1361.7	1341.1	1448.4	1929.1	2773.0	4720.6	7429.7	8401.4	8502.5
32.5°	1442.2	1353.5	1295.7	1277.1	1320.5	1749.6	2636.8	4819.7	7836.1	8863.6	8828.5
35°	1382.4	1308.1	1235.9	1200.8	1231.7	1634.1	2527.4	4772.2	8314.8	9222.6	9204.0
37.5°	1376.2	1279.2	1219.4	1161.6	1159.5	1491.7	2378.9	4817.6	8620.1	9866.3	9612.5
40°	1322.5	1260.6	1182.2	1134.8	1107.9	1419.5	2234.5	4710.3	9067.9	10126.3	9876.6
42.5°	1324.6	1231.7	1163.7	1107.9	1081.1	1314.3	2135.4	4681.4	9224.7	10549.2	10000.4
45°	1291.6	1200.8	1143.0	1077.0	1062.6	1233.8	2040.5	4547.3	9501.1	10569.9	9845.7
47.5°	1258.6	1178.1	1116.2	1037.8	1004.8	1204.9	1966.2	4435.9	9356.7	10375.9	9631.1
50°	1235.9	1143.0	1085.3	1029.5	936.7	1155.4	1869.3	4409.1	9154.5	10113.9	9232.9
52.5°	1196.7	1114.1	1054.3	1011.0	862.4	1110.0	1832.1	4565.9	9402.1	9917.9	9117.4
55°	1159.5	1074.9	998.6	914.0	800.5	990.3	1729.0	4712.4	9763.2	10369.7	9641.4
57.5°	1120.3	1039.9	957.3	856.2	740.7	866.6	1621.7	4739.2	9086.4	9583.7	9152.4
60°	1068.7	965.6	903.7	771.6	676.7	718.0	1285.4	4178.0	7048.0	8003.2	8017.7
62.5°	1011.0	899.6	845.9	691.2	610.7	619.0	1048.1	3511.6	5717.2	6625.0	7019.1
65°	934.6	827.4	763.4	639.6	563.3	536.4	767.5	2572.8	4343.1	5374.7	5822.4
67.5°	835.6	734.5	654.0	557.1	503.4	460.1	524.1	1448.4	2564.6	3608.6	3744.7
70°	730.4	643.7	559.1	478.7	418.8	387.9	383.8	641.7	1225.6	1941.5	2209.7
72.5°	575.6	513.7	445.7	385.8	346.6	301.2	274.4	266.2	414.7	790.2	1091.4
75°	412.6	361.1	321.9	282.7	253.8	229.0	208.4	189.8	173.3	198.1	272.3
77.5°	260.0	241.4	210.4	200.1	183.6	177.4	169.2	158.9	146.5	138.2	138.2
80°	175.4	163.0	152.7	150.6	144.4	142.4	144.4	134.1	121.7	111.4	115.5
82.5°	117.6	115.5	113.5	111.4	113.5	115.5	119.7	117.6	107.3	101.1	103.2
85°	70.1	74.3	78.4	82.5	90.8	80.5	66.0	55.7	49.5	45.4	43.3
87.5°	26.8	37.1	33.0	30.9	33.0	30.9	28.9	26.8	22.7	20.6	20.6
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: P528420

CATALOG NUMBER: GALN-SA3C-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6	6317.6
2.5°	6831.3	6872.6	6907.7	6899.4	6827.2	6730.2	6691.0	6490.9	6449.6	6422.8
5°	6924.2	7163.5	7215.1	7184.1	6996.4	6759.1	6528.0	6235.1	6063.8	6057.6
7.5°	6752.9	7048.0	7140.8	7211.0	6961.3	6548.7	6152.5	5713.1	5605.8	5614.0
10°	6317.6	6788.0	7017.0	7089.2	6802.4	6445.5	5896.7	5451.0	5222.0	5217.9
12.5°	6076.2	6445.5	6509.5	6610.6	6526.0	6164.9	5748.1	5248.8	5026.0	5021.9
15°	5861.6	6105.1	6123.6	6266.0	6311.4	6067.9	5787.3	5255.0	5075.5	5057.0
17.5°	6049.4	5880.2	5810.0	5828.6	5962.7	6051.4	6014.3	5605.8	5422.1	5319.0
20°	6175.2	5797.6	5585.1	5605.8	5764.6	6088.6	6352.7	6113.3	5822.4	5834.8
22.5°	6511.5	5810.0	5477.8	5455.2	5706.9	6282.5	6734.4	6755.0	6474.4	6406.3
25°	7014.9	5952.4	5444.8	5438.6	5680.0	6490.9	7180.0	7514.2	7227.5	7101.6
27.5°	7419.3	6175.2	5548.0	5568.6	5764.6	6660.1	7559.6	8003.2	7784.5	7629.8
30°	7774.2	6406.3	5692.4	5597.5	5991.6	6748.8	7722.6	8560.3	8384.9	8257.0
32.5°	7920.7	6734.4	5921.4	5764.6	6179.3	6856.1	8061.0	9100.9	8950.2	8634.6
35°	8168.3	6918.0	6045.2	6032.9	6507.4	7114.0	8219.9	9457.8	9395.9	9115.3
37.5°	8366.4	7103.7	6484.7	6348.5	6957.2	7547.3	8475.7	9950.9	9808.5	9676.5
40°	8519.0	7435.8	6895.3	7074.8	7510.1	7941.3	8710.9	9981.9	10392.4	10008.7
42.5°	8378.7	7732.9	7570.0	7999.1	8411.7	8391.1	8737.7	10221.2	10528.6	10328.5
45°	8343.7	8236.4	8636.6	9026.6	9121.5	8764.6	8545.9	9957.1	10487.3	10398.6
47.5°	8259.1	8731.5	9428.9	10064.4	9920.0	9014.2	8316.8	9909.6	10512.1	10353.2
50°	8230.2	8838.8	10014.9	10633.8	10547.2	9230.8	8209.6	9604.3	10336.7	10322.3
52.5°	8228.1	9059.6	10258.3	10943.3	10997.0	9573.3	8356.0	9759.0	10472.9	10594.6
55°	8321.0	8989.5	10227.4	10772.1	10751.4	9420.7	8372.5	9862.2	10640.0	10759.7
57.5°	7848.5	8052.7	8440.6	8871.8	8760.4	7803.1	7477.1	9117.4	9765.2	9678.6
60°	6777.7	6138.1	5700.7	5680.0	5463.4	5164.2	6119.5	8137.3	8137.3	8052.7
62.5°	5935.9	4029.5	3462.1	3301.2	3455.9	3800.5	5902.9	7914.5	7689.6	7592.7
65°	5191.1	3076.3	2502.7	2457.3	2725.5	3245.4	5337.6	6742.6	6346.5	6024.6
67.5°	3340.4	2253.0	1861.0	1780.6	2104.5	2383.0	3552.9	4147.1	3897.4	3771.6
70°	2154.0	1466.9	1035.7	971.8	1097.6	1469.0	2269.5	2418.1	2055.0	1970.4
72.5°	1019.2	633.4	363.1	299.2	336.3	561.2	897.5	965.6	802.6	734.5
75°	323.9	233.1	148.6	127.9	121.7	144.4	206.3	158.9	115.5	113.5
77.5°	144.4	138.2	117.6	99.0	86.7	72.2	59.8	49.5	51.6	53.6
80°	119.7	109.4	97.0	86.7	72.2	55.7	43.3	33.0	33.0	35.1
82.5°	105.2	94.9	84.6	72.2	61.9	45.4	33.0	22.7	20.6	20.6
85°	45.4	53.6	57.8	61.9	49.5	37.1	22.7	14.4	12.4	12.4
87.5°	18.6	16.5	14.4	12.4	10.3	10.3	8.3	6.2	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)