

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: P450464

Luminaire Tested: **GALN-SA1B-730-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4520 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

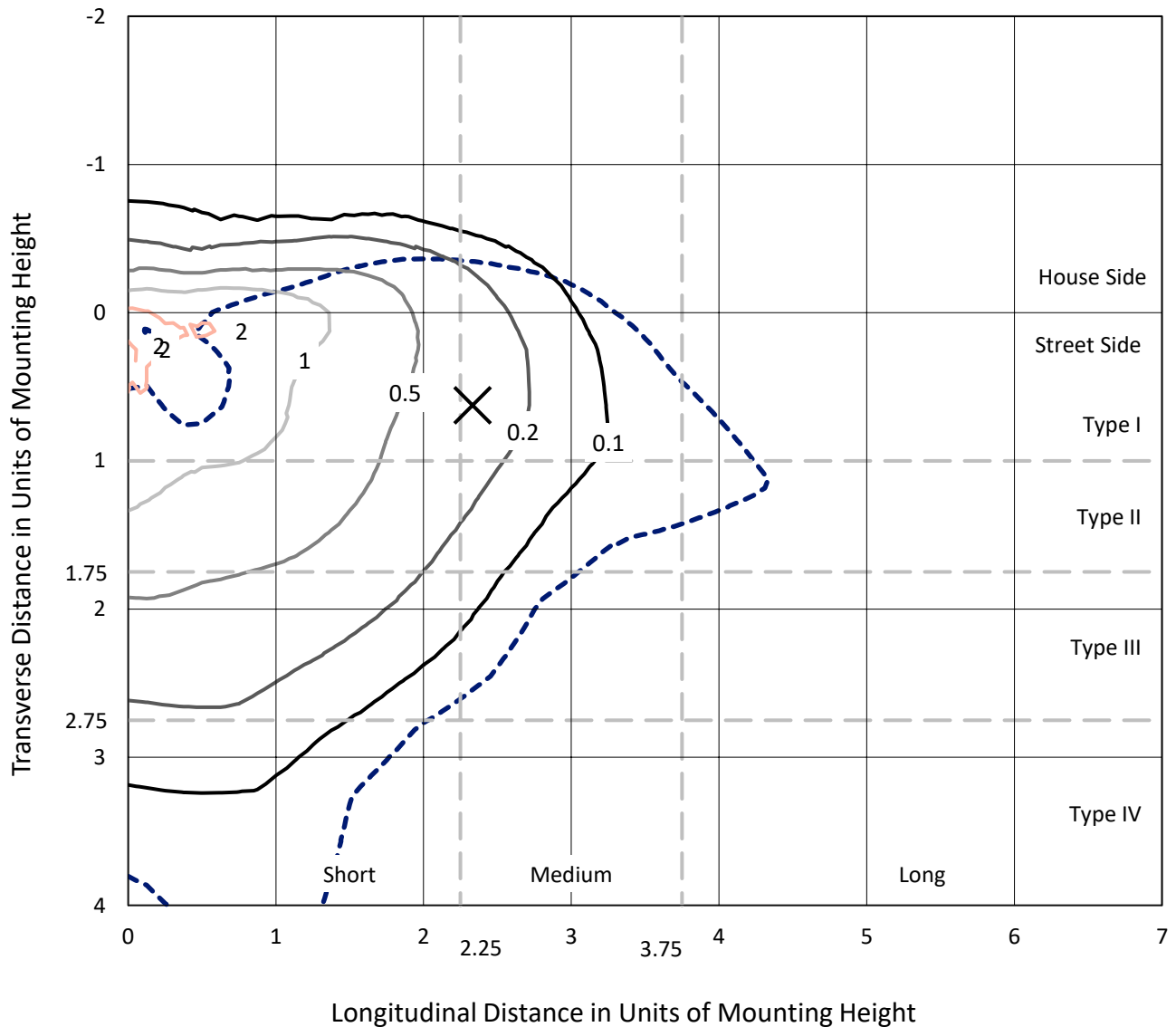
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450464
 CATALOG NUMBER: GALN-SA1B-730-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

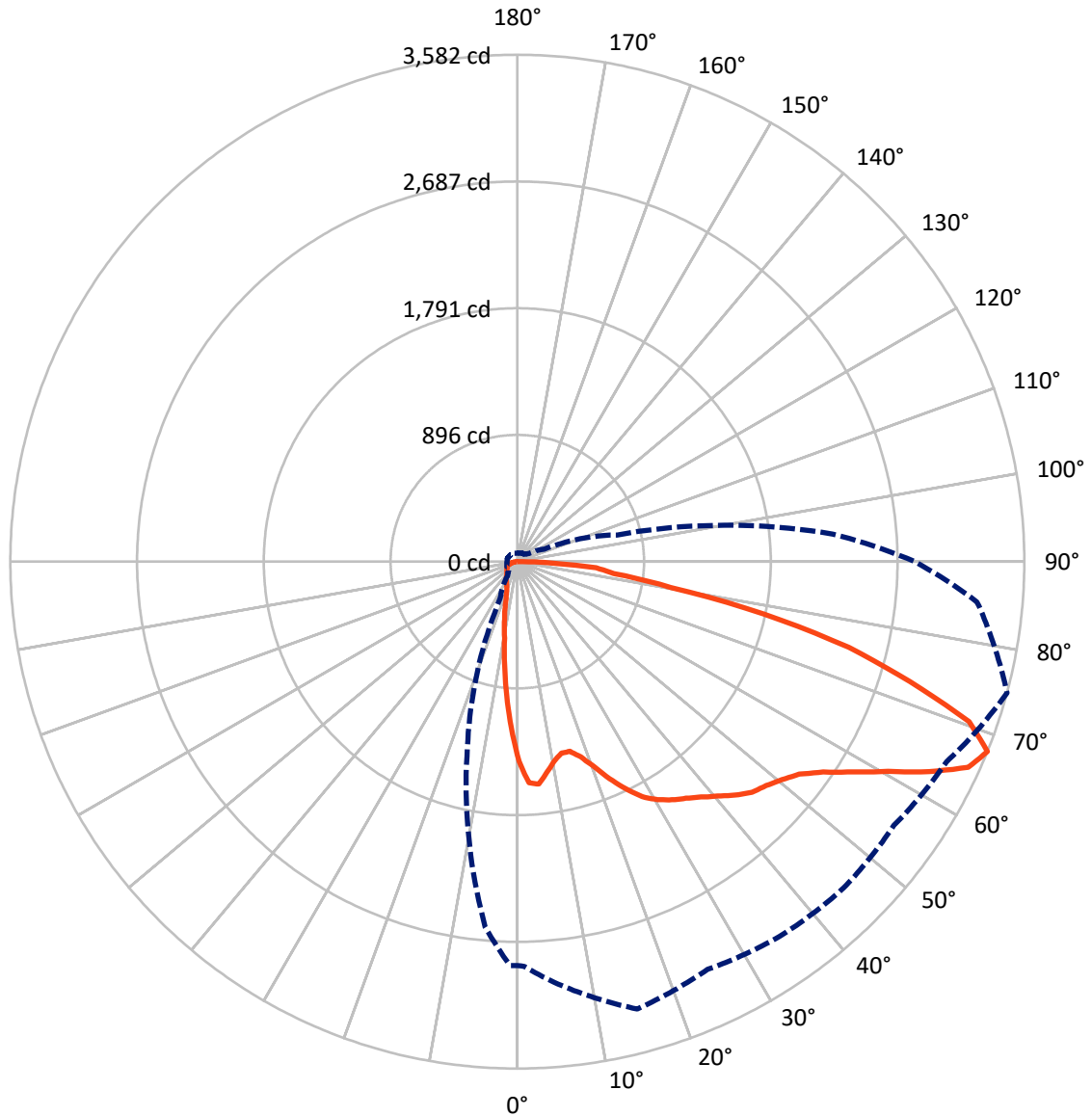
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P450464
CATALOG NUMBER: GALN-SA1B-730-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P450464

CATALOG NUMBER: GALN-SA1B-730-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	764.0	0.0	764.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3756.0	0.0	3756.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	4520.0	0.0	4520.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	2.4
10°-20°	223.4	4.9
20°-30°	321.4	7.1
30°-40°	463.0	10.2
40°-50°	650.3	14.4
50°-60°	907.0	20.1
60°-70°	1078.4	23.9
70°-80°	635.1	14.1
80°-90°	134.3	3.0
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°	4520.0	100.0
0°-180°	4520.0	100.0



REPORT NUMBER: P450464

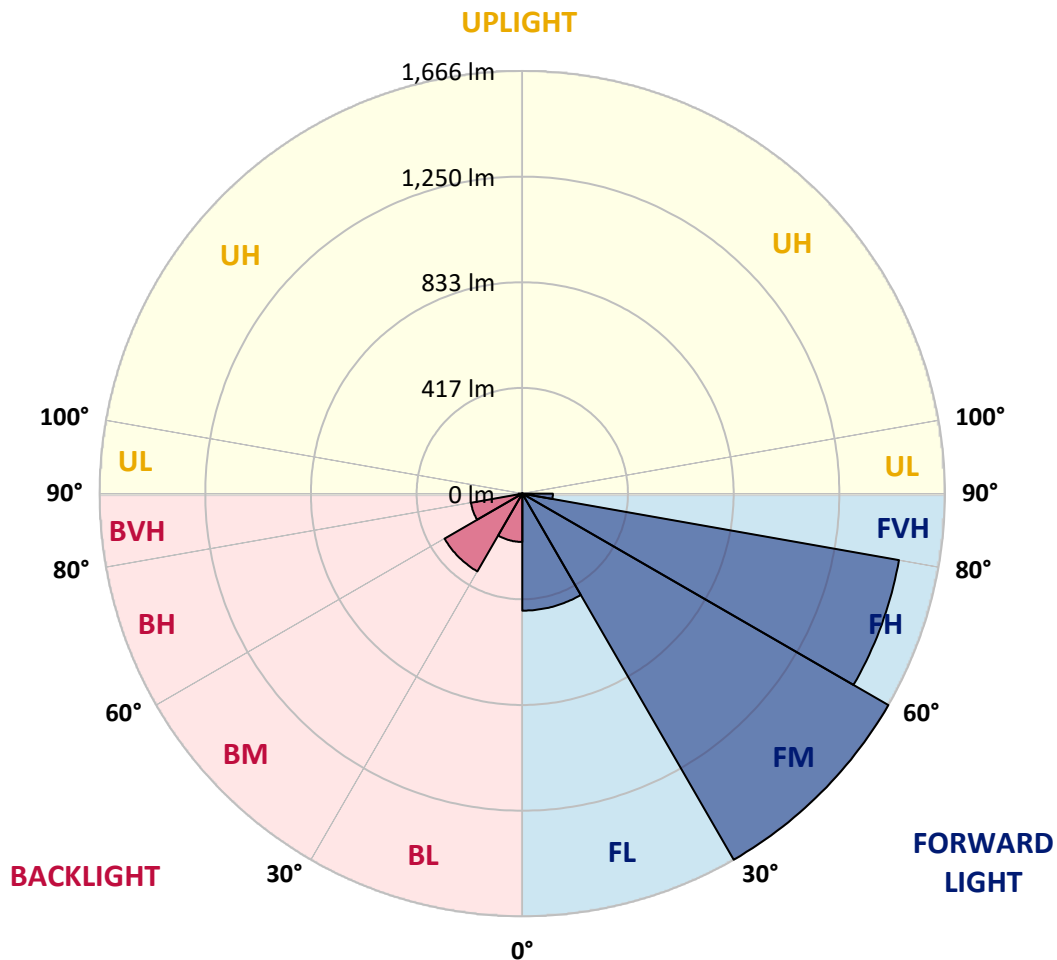
CATALOG NUMBER: GALN-SA1B-730-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.4	10.2			
FM	(30°-60°)	1666.4	36.9			
FH	(60°-80°)	1507.9	33.4			G1/1800
FVH	(80°-90°)	120.4	2.7			G2/225
BL	(0°-30°)	190.6	4.2	B1/500		
BM	(30°-60°)	354.0	7.8	B1/1000		
BH	(60°-80°)	205.6	4.5	B1/500		G1/500
BVH	(80°-90°)	13.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P450464
 CATALOG NUMBER: GALN-SA1B-730-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2
2.5°	1522.6	1524.6	1537.7	1575.6	1601.7	1611.3	1617.9	1605.5	1593.3	1563.7	1519.1
5°	1518.0	1529.8	1563.7	1649.0	1716.2	1745.2	1753.9	1716.5	1654.8	1578.8	1487.5
7.5°	1429.3	1445.2	1497.4	1640.3	1758.8	1826.6	1817.7	1750.1	1638.8	1503.5	1375.9
10°	1324.0	1341.7	1404.6	1577.4	1730.1	1823.5	1823.5	1741.1	1593.3	1432.4	1285.5
12.5°	1240.6	1259.1	1331.0	1512.7	1670.4	1758.8	1773.6	1702.9	1560.6	1387.5	1226.1
15°	1213.0	1231.0	1308.4	1473.6	1607.2	1661.1	1666.1	1642.9	1544.6	1390.7	1223.5
17.5°	1247.2	1270.4	1348.7	1485.2	1549.3	1552.4	1556.2	1574.5	1546.4	1449.0	1276.2
20°	1346.1	1371.0	1452.7	1522.6	1498.5	1465.5	1467.5	1514.5	1566.9	1545.2	1402.3
22.5°	1488.7	1510.4	1594.2	1588.4	1477.1	1409.0	1394.8	1460.3	1597.4	1665.2	1536.5
25°	1642.6	1668.1	1764.3	1686.1	1483.2	1375.3	1366.4	1428.4	1629.0	1777.4	1691.6
27.5°	1818.8	1843.7	1919.7	1784.6	1515.1	1372.7	1362.0	1425.5	1657.4	1881.1	1839.7
30°	1949.8	1972.7	2024.3	1867.5	1554.2	1390.1	1376.8	1448.4	1681.7	1952.1	1984.0
32.5°	2052.7	2076.5	2104.6	1919.1	1605.8	1421.7	1397.1	1490.1	1713.6	2006.3	2091.0
35°	2160.0	2188.1	2186.1	1964.9	1653.9	1458.2	1434.2	1550.4	1763.7	2053.6	2226.6
37.5°	2295.9	2307.2	2292.7	2006.1	1711.6	1524.0	1510.7	1640.0	1835.0	2110.7	2385.2
40°	2433.9	2456.5	2382.0	2055.9	1781.7	1647.8	1646.4	1772.4	1919.7	2177.7	2538.8
42.5°	2552.1	2571.3	2465.5	2099.4	1866.6	1798.8	1809.8	1950.1	2030.7	2255.3	2662.3
45°	2641.1	2658.2	2542.6	2141.4	1978.5	1973.3	2038.2	2140.6	2170.7	2325.2	2734.7
47.5°	2716.8	2733.3	2596.2	2205.2	2116.8	2181.7	2294.8	2339.1	2290.4	2365.2	2815.9
50°	2780.5	2785.5	2633.0	2281.1	2288.4	2437.1	2546.6	2575.3	2408.7	2422.6	2886.3
52.5°	2846.9	2840.5	2696.5	2376.8	2473.9	2679.4	2759.1	2788.9	2522.0	2493.3	2988.9
55°	2995.6	3001.7	2838.8	2497.4	2661.4	2917.4	3022.3	2993.6	2647.5	2623.4	3119.4
57.5°	3175.3	3170.1	3039.1	2686.1	2852.4	3138.8	3217.1	3171.0	2815.0	2802.3	3251.6
60°	3245.2	3252.1	3206.6	2888.9	3040.8	3332.7	3412.7	3341.1	3015.9	3010.1	3351.3
62.5°	3175.0	3214.2	3244.9	3069.5	3201.4	3475.3	3554.7	3473.0	3225.5	3267.5	3421.1
65°	3035.3	3043.7	3148.4	3222.6	3278.8	3498.8	3540.2	3496.8	3400.5	3502.0	3417.9
67.5°	2853.9	2861.1	2983.7	3272.7	3179.1	3232.1	3261.1	3248.4	3346.3	3582.3	3260.5
70°	2681.1	2675.3	2804.9	3144.9	2767.5	2686.9	2711.0	2671.0	2887.5	3386.0	2951.8
72.5°	2344.9	2365.8	2504.9	2789.5	2191.3	2060.3	2112.7	2009.2	2220.8	2900.0	2395.9
75°	1836.8	1841.7	2073.9	2341.1	1653.0	1446.4	1517.4	1474.2	1701.1	2419.1	1654.5
77.5°	1271.9	1260.9	1510.4	1788.1	1178.8	1058.8	1060.0	1039.4	1187.8	1781.1	1124.0
80°	807.8	791.0	945.5	1104.6	810.1	866.7	838.2	837.4	773.3	1098.8	679.7
82.5°	436.5	455.1	597.4	692.5	581.2	669.8	613.9	595.9	530.7	687.8	434.8
85°	198.8	216.2	318.5	471.0	441.4	446.4	298.3	351.9	439.1	558.5	232.2
87.5°	19.4	24.9	65.8	222.3	150.7	118.8	44.3	85.5	110.4	198.5	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: P450464
 CATALOG NUMBER: GALN-SA1B-730-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2
2.5°	1500.8	1485.8	1434.5	1392.2	1347.2	1313.0	1268.4	1238.5	1218.0	1186.9	1183.2
5°	1431.9	1395.1	1305.8	1214.8	1136.2	1077.1	1017.1	962.0	929.6	919.4	906.4
7.5°	1315.6	1253.6	1138.8	1034.5	944.3	856.2	788.4	740.3	708.1	689.3	666.7
10°	1220.0	1148.1	1008.4	880.6	806.4	751.6	691.9	640.3	600.6	566.7	548.1
12.5°	1155.6	1074.5	917.4	813.6	756.2	698.0	628.1	570.1	511.6	473.0	456.5
15°	1136.2	1050.4	889.3	780.3	698.0	621.7	543.5	467.8	409.8	373.3	361.2
17.5°	1183.8	1080.0	889.0	735.9	629.6	538.5	438.3	367.2	307.8	280.6	271.9
20°	1272.4	1136.8	891.6	692.2	555.4	427.2	318.8	260.6	232.2	220.6	216.2
22.5°	1396.2	1223.5	899.4	649.0	474.2	328.1	238.8	209.3	199.1	197.1	196.2
25°	1548.7	1330.7	925.8	610.1	405.8	250.4	199.7	186.4	180.6	178.5	178.3
27.5°	1689.0	1469.3	957.7	576.8	339.7	215.9	180.6	169.3	163.5	163.2	163.8
30°	1815.6	1585.2	984.3	539.4	289.6	191.9	168.1	156.8	151.3	151.0	152.8
32.5°	1925.2	1680.6	1004.0	502.6	261.7	177.1	156.8	144.6	140.0	139.1	140.0
35°	2042.3	1775.6	995.1	473.9	245.8	164.9	148.4	136.5	131.0	128.4	128.4
37.5°	2175.9	1873.6	979.7	450.1	238.5	154.8	141.2	129.6	124.1	121.4	121.2
40°	2321.7	1971.6	958.5	429.0	231.3	148.7	136.2	124.1	117.4	114.8	114.2
42.5°	2450.4	2055.3	941.1	415.1	219.4	149.9	131.9	120.0	111.6	108.1	107.8
45°	2562.3	2139.7	938.0	407.0	209.6	148.1	130.7	116.8	107.0	103.2	102.6
47.5°	2649.8	2227.5	956.2	402.3	198.8	138.8	138.3	114.8	102.9	98.8	98.3
50°	2756.5	2352.1	998.0	392.7	189.0	130.1	146.1	114.5	99.7	94.5	93.0
52.5°	2898.5	2514.5	1054.5	375.6	174.8	122.0	139.4	114.5	95.9	90.7	89.0
55°	3113.3	2721.4	1109.8	351.6	154.8	111.3	125.8	111.0	90.4	85.8	84.6
57.5°	3255.6	2872.7	1145.2	318.3	129.9	103.5	108.4	105.5	84.9	80.0	80.0
60°	3262.9	2913.3	1128.4	276.2	114.2	96.2	94.2	106.4	80.0	74.8	74.2
62.5°	3179.4	2813.9	1040.9	238.5	105.8	88.4	85.2	93.3	75.1	69.9	69.0
65°	3048.9	2560.3	889.0	220.6	101.2	81.4	76.8	76.5	69.9	64.9	63.8
67.5°	2809.2	2237.4	730.4	210.1	98.8	73.6	69.3	67.8	63.8	59.7	59.1
70°	2455.9	1873.9	585.8	205.8	97.7	65.5	62.0	60.3	56.8	53.6	53.3
72.5°	1910.7	1520.0	483.5	202.9	97.1	58.0	54.2	51.9	49.9	47.0	47.0
75°	1372.4	1118.2	369.0	182.9	89.9	49.9	45.8	44.3	41.4	39.1	39.7
77.5°	865.2	753.0	242.9	134.5	69.6	40.0	36.5	35.7	33.3	30.1	32.2
80°	584.3	529.6	141.7	84.6	43.8	29.3	28.1	27.8	25.2	21.7	22.0
82.5°	397.7	390.1	73.6	48.1	25.2	17.1	16.5	17.1	14.2	11.6	11.6
85°	155.4	212.2	34.8	18.8	8.1	2.6	3.8	4.1	2.3	1.2	1.4
87.5°	2.9	21.7	0.9	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: P450464
 CATALOG NUMBER: GALN-SA1B-730-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2
2.5°	1177.4	1174.8	1179.1	1160.6	1164.3	1171.3	1174.8	1176.8	1205.5	1198.8	1217.1
5°	918.5	915.9	932.7	935.1	943.8	942.0	950.4	952.5	962.9	966.7	992.2
7.5°	668.1	679.4	698.5	708.4	723.2	727.8	723.5	734.2	712.5	728.1	732.7
10°	536.8	523.2	515.1	537.7	540.6	562.0	553.3	546.4	559.1	559.7	571.9
12.5°	447.0	417.7	398.3	404.6	411.6	420.9	422.3	436.2	445.5	454.2	461.4
15°	350.4	340.3	322.6	313.9	323.8	327.5	336.5	348.1	358.0	360.6	370.4
17.5°	269.0	270.7	267.8	262.6	268.7	271.6	272.2	272.5	275.1	273.3	287.8
20°	216.5	222.6	229.9	231.0	233.0	234.5	231.9	222.0	222.3	228.4	233.0
22.5°	195.9	197.1	205.2	207.8	214.2	211.6	204.1	199.4	198.8	200.3	202.6
25°	179.7	181.4	187.2	191.3	196.2	191.6	186.1	181.7	181.2	182.6	184.9
27.5°	165.2	167.8	173.0	177.1	181.7	177.4	172.2	168.4	168.1	167.8	169.3
30°	153.6	156.5	160.3	164.9	168.1	164.3	159.4	157.4	157.1	156.5	157.1
32.5°	142.0	146.7	150.4	152.8	155.9	153.0	149.3	148.1	146.1	144.3	143.5
35°	129.0	133.9	139.7	142.6	145.8	142.9	140.3	135.4	131.9	131.6	132.2
37.5°	121.4	123.5	128.1	133.0	136.2	134.8	129.9	124.9	124.1	124.1	124.6
40°	114.8	115.7	117.7	124.1	129.9	125.5	119.4	118.0	118.0	117.7	118.0
42.5°	108.1	109.0	109.0	113.9	123.2	116.2	111.6	111.6	111.6	111.9	112.8
45°	102.0	102.3	102.0	105.5	114.2	108.4	105.2	106.1	106.7	107.2	107.8
47.5°	96.8	97.1	96.8	99.7	104.1	101.7	100.0	101.2	102.3	103.2	103.8
50°	92.2	91.9	92.5	94.2	96.2	96.8	95.7	97.4	98.0	99.1	100.6
52.5°	88.1	87.8	88.4	89.3	92.2	92.2	92.2	93.6	94.8	95.9	98.0
55°	83.5	83.8	84.6	85.8	89.6	89.0	89.3	90.4	91.6	93.3	94.5
57.5°	79.1	79.7	80.9	82.6	86.4	86.1	86.4	87.0	88.4	89.3	90.4
60°	74.2	75.4	76.8	78.0	81.7	81.4	82.9	84.1	84.9	84.9	85.5
62.5°	69.3	71.0	72.5	73.3	77.4	77.7	79.7	80.6	81.2	80.6	81.4
65°	64.3	67.0	67.5	68.7	72.8	73.0	75.4	77.4	76.8	76.2	77.7
67.5°	59.4	62.6	62.3	63.8	67.8	68.4	70.4	73.9	72.8	72.2	73.3
70°	53.9	56.2	56.5	57.4	62.9	62.0	65.2	68.4	67.5	67.8	67.8
72.5°	47.8	49.9	49.9	51.6	57.4	55.9	58.5	62.0	62.0	61.7	61.7
75°	40.6	41.7	42.9	45.5	51.6	49.9	51.6	54.8	55.4	54.8	54.8
77.5°	32.8	34.5	35.1	38.6	42.9	42.6	44.3	45.8	47.0	46.4	46.4
80°	23.2	24.9	27.2	31.0	33.6	34.5	35.4	36.5	37.1	37.1	37.7
82.5°	13.0	15.7	17.7	21.4	22.6	27.0	26.7	27.5	26.7	23.5	26.1
85°	2.9	5.5	7.8	9.9	11.3	15.7	16.5	18.6	15.4	14.2	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	4.6	6.4	5.5	4.6	4.6
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: P450464
 CATALOG NUMBER: GALN-SA1B-730-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2	1412.2
2.5°	1232.4	1257.7	1288.1	1340.6	1377.4	1417.1	1457.1	1499.7	1511.0	1522.6
5°	999.1	1048.7	1075.6	1146.1	1220.0	1313.9	1390.7	1474.8	1509.8	1518.0
7.5°	756.8	790.4	861.1	932.5	1024.0	1122.6	1240.3	1371.3	1412.2	1429.3
10°	600.0	645.8	707.8	784.3	864.6	970.7	1103.5	1256.5	1314.5	1324.0
12.5°	510.7	561.7	629.3	710.1	786.1	866.1	1000.0	1158.0	1220.0	1240.6
15°	408.4	470.1	548.1	633.3	715.9	803.5	939.1	1117.4	1189.0	1213.0
17.5°	320.9	370.7	455.1	547.5	645.5	756.2	926.4	1136.8	1224.9	1247.2
20°	245.5	281.2	352.2	449.8	564.6	709.6	929.6	1210.1	1315.6	1346.1
22.5°	212.2	230.4	273.6	366.7	495.1	669.0	942.6	1310.7	1438.0	1488.7
25°	192.2	201.7	226.1	287.0	428.7	629.6	972.5	1446.1	1609.0	1642.6
27.5°	175.1	182.0	197.1	240.9	368.4	593.0	1007.2	1596.2	1768.7	1818.8
30°	158.8	168.1	182.3	213.9	329.9	559.7	1051.0	1717.9	1903.2	1949.8
32.5°	146.4	155.7	168.7	195.1	297.1	524.6	1077.1	1824.9	2013.0	2052.7
35°	136.2	144.1	157.7	180.0	272.2	498.0	1071.9	1909.8	2119.4	2160.0
37.5°	129.0	135.7	149.3	165.8	253.3	470.1	1069.3	2022.0	2249.0	2295.9
40°	122.3	129.3	141.7	156.5	234.5	437.4	1070.7	2133.3	2386.9	2433.9
42.5°	117.1	124.9	135.1	153.9	215.1	411.0	1070.7	2230.1	2506.9	2552.1
45°	112.8	121.2	131.0	153.6	199.7	391.0	1063.5	2313.3	2602.6	2641.1
47.5°	109.0	118.3	132.5	148.4	195.9	376.5	1057.1	2380.0	2680.5	2716.8
50°	106.4	117.4	140.9	142.3	197.1	372.2	1087.8	2464.0	2749.2	2780.5
52.5°	104.3	117.7	140.6	133.3	195.1	375.1	1151.9	2595.3	2844.6	2846.9
55°	100.3	117.4	133.3	123.2	186.7	380.0	1234.2	2786.0	2993.9	2995.6
57.5°	96.2	114.2	123.8	114.5	169.6	380.0	1333.3	2966.6	3173.9	3175.3
60°	92.2	118.8	108.7	107.0	147.2	373.0	1438.0	3046.0	3230.4	3245.2
62.5°	88.1	119.7	97.1	100.3	131.0	356.2	1515.9	2958.2	3153.9	3175.0
65°	83.5	96.5	89.6	93.3	122.6	328.1	1491.3	2797.4	3010.1	3035.3
67.5°	78.0	81.7	81.4	86.1	119.7	286.7	1361.4	2593.9	2855.3	2853.9
70°	71.3	73.3	74.2	79.1	114.2	254.5	1134.5	2329.8	2648.7	2681.1
72.5°	64.3	66.1	67.0	71.3	108.7	236.2	880.6	1966.1	2294.2	2344.9
75°	56.8	58.0	59.1	62.9	102.9	209.3	627.2	1500.8	1757.1	1836.8
77.5°	49.0	49.0	50.4	54.2	86.7	172.8	420.9	1052.7	1190.4	1271.9
80°	39.7	40.0	39.4	43.5	63.8	118.3	239.1	703.2	792.2	807.8
82.5°	30.4	29.6	29.9	31.9	47.5	80.6	127.5	436.8	445.2	436.5
85°	19.1	19.1	18.6	20.9	30.4	42.0	69.6	267.5	209.0	198.8
87.5°	7.8	6.4	7.2	8.4	14.5	17.1	27.2	55.1	21.2	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)