

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: P450611

Luminaire Tested: **GALN-SA1B-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3944 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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



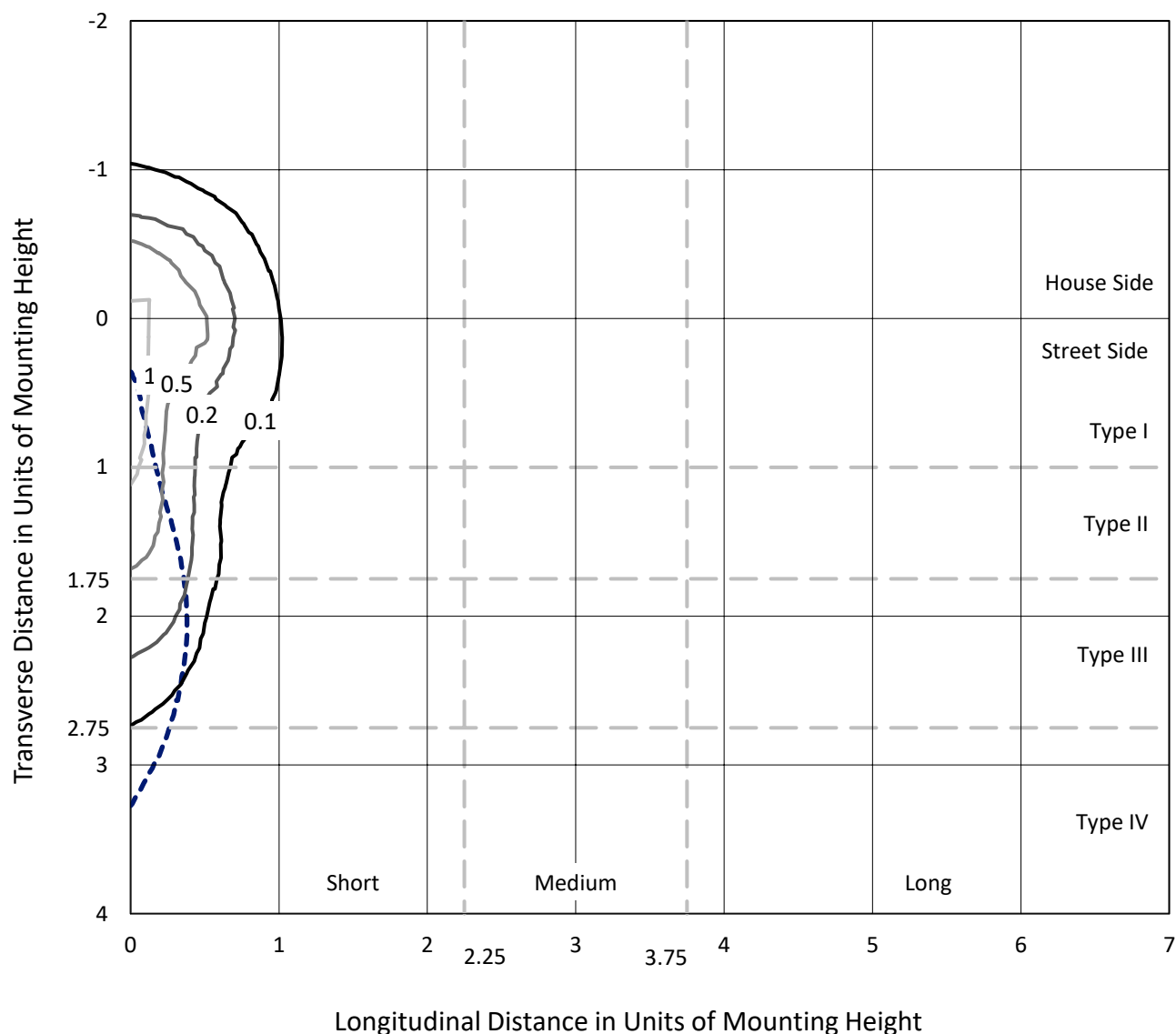
REPORT NUMBER: P450611

CATALOG NUMBER: GALN-SA1B-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

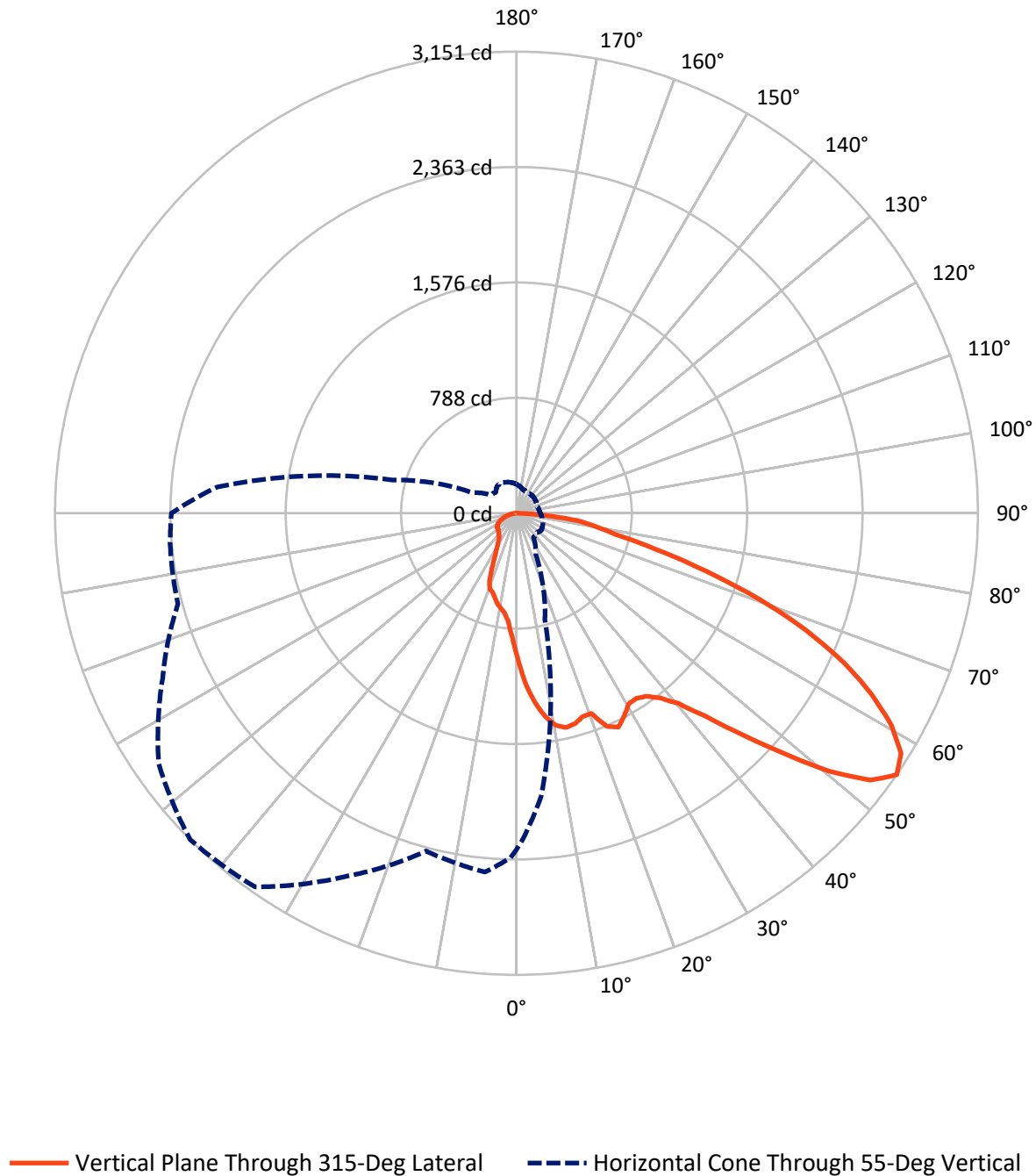


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc

Type IV - Short - N/A

REPORT NUMBER: P450611
CATALOG NUMBER: GALN-SA1B-830-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P450611

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	862.7	0.0	862.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3081.3	0.0	3081.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	3944.0	0.0	3944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	2.1
10°-20°	222.6	5.6
20°-30°	384.5	9.7
30°-40°	446.8	11.3
40°-50°	623.4	15.8
50°-60°	845.9	21.4
60°-70°	804.8	20.4
70°-80°	434.8	11.0
80°-90°	97.4	2.5
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°	3944.0	100.0
0°-180°	3944.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450611

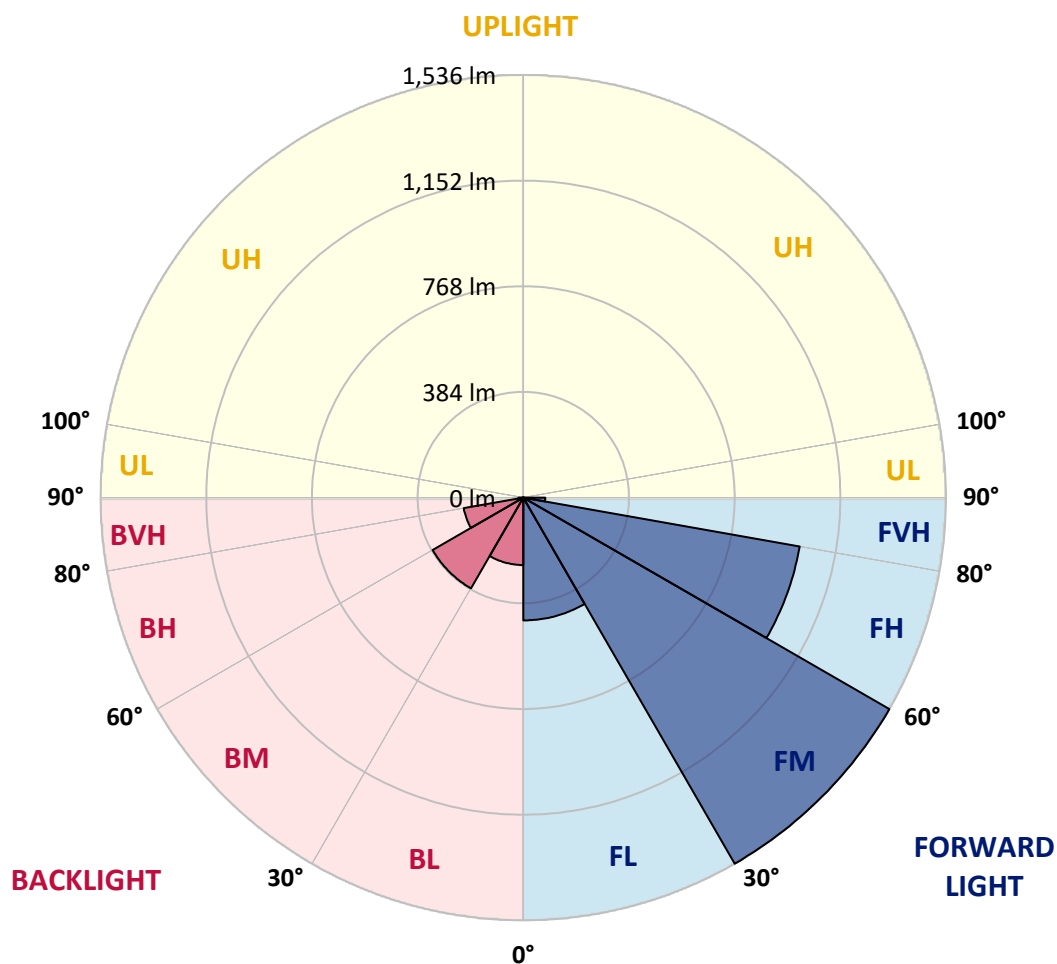
CATALOG NUMBER: GALN-SA1B-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.1	11.3			
FM	(30°-60°)	1535.7	38.9			
FH	(60°-80°)	1019.9	25.9			G1/1800
FVH	(80°-90°)	79.6	2.0			G1/100
BL	(0°-30°)	244.8	6.2	B1/500		
BM	(30°-60°)	380.4	9.6	B1/1000		
BH	(60°-80°)	219.7	5.6	B1/500		G1/500
BVH	(80°-90°)	17.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P450611

CATALOG NUMBER: GALN-SA1B-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	1099.6	1095.4	1083.7	1053.0	1022.1	990.6	966.4	936.2	904.7	887.8	866.2
5°	1114.7	1110.0	1082.4	1013.2	950.5	884.7	832.1	786.1	767.3	739.7	717.6
7.5°	1079.3	1077.2	1035.8	936.4	850.6	764.5	704.9	667.9	634.4	621.9	624.5
10°	1047.0	1038.7	986.9	857.1	756.9	686.9	644.2	608.1	584.4	578.2	579.5
12.5°	1020.2	1009.0	947.9	803.7	716.1	660.1	605.7	568.0	546.4	552.4	572.7
15°	1014.8	999.7	931.5	785.5	693.7	621.6	562.0	518.6	502.4	515.5	548.0
17.5°	1050.2	1031.2	959.6	791.5	672.3	582.3	509.2	459.5	446.0	466.8	509.2
20°	1163.9	1135.8	1047.3	826.1	670.3	562.8	478.5	428.5	434.3	473.8	518.1
22.5°	1374.1	1331.9	1200.8	876.6	681.2	557.9	472.3	446.2	477.7	511.3	540.4
25°	1415.7	1382.7	1228.4	888.1	678.9	554.5	490.0	503.0	538.1	554.7	544.6
27.5°	1439.2	1401.4	1226.6	831.3	607.0	503.0	468.4	490.0	498.8	482.7	455.1
30°	1493.8	1454.5	1257.5	771.7	499.8	373.1	327.1	318.2	324.2	327.3	317.4
32.5°	1569.0	1530.2	1315.8	732.7	432.2	308.6	263.3	250.8	248.0	244.6	240.7
35°	1666.3	1606.7	1373.1	707.7	404.3	285.4	243.8	234.2	230.3	225.6	221.4
37.5°	1765.2	1702.7	1445.4	681.5	385.9	269.3	230.8	226.4	219.6	214.7	208.7
40°	1870.3	1800.3	1511.2	658.6	367.9	258.9	221.4	220.9	212.1	206.3	199.3
42.5°	1961.4	1889.3	1570.0	644.5	354.1	248.0	215.7	217.3	208.2	199.6	190.5
45°	2033.7	1962.9	1624.4	644.5	342.9	237.0	214.7	213.6	204.5	193.8	183.4
47.5°	2097.2	2024.1	1677.5	660.9	335.9	227.9	208.9	210.8	201.4	187.9	177.7
50°	2146.4	2081.8	1749.0	686.4	328.9	220.6	201.7	211.5	198.8	184.7	173.0
52.5°	2209.1	2151.3	1835.2	721.3	322.9	212.6	195.1	211.5	198.5	185.0	172.3
55°	2296.0	2235.1	1939.0	750.1	313.3	205.0	189.4	205.6	197.7	183.7	170.2
57.5°	2356.9	2311.3	2012.4	769.4	299.5	195.4	184.2	199.8	194.4	178.8	163.9
58°	2359.7	2315.2	2023.0	773.8	296.1	193.6	182.9	197.2	192.8	176.7	161.8
60°	2326.9	2288.7	2025.1	767.6	276.8	184.5	176.2	186.6	184.5	164.4	150.7
62.5°	2207.8	2166.9	1941.1	716.8	251.4	173.3	165.7	172.3	167.6	147.3	134.5
65°	2038.4	1963.2	1768.3	637.2	233.1	161.3	151.7	152.2	147.3	132.7	121.5
67.5°	1812.8	1728.7	1497.2	537.0	219.3	148.1	135.0	133.7	127.8	118.4	109.3
70°	1535.2	1477.7	1216.7	436.9	204.0	133.5	116.3	115.5	111.9	104.9	96.8
72.5°	1244.3	1171.1	982.5	349.7	185.3	119.4	98.9	100.4	95.8	90.8	83.5
75°	918.2	870.4	759.5	280.5	160.0	104.1	82.5	83.0	80.9	75.7	70.0
77.5°	604.7	590.4	543.3	184.2	123.1	82.7	67.4	67.9	66.4	61.7	55.7
80°	406.9	397.3	368.2	118.6	82.2	59.8	52.0	52.6	52.3	47.4	39.3
82.5°	250.8	246.7	237.3	80.1	57.0	42.9	34.3	35.9	38.8	33.3	26.8
85°	118.4	118.6	143.4	43.7	33.6	27.6	18.7	20.0	20.0	20.0	15.1
87.5°	15.4	16.1	19.8	18.5	12.2	10.4	6.8	5.7	4.9	6.5	4.7
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: P450611

CATALOG NUMBER: GALN-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	858.7	853.4	842.3	839.7	838.1	842.5	830.8	833.9	828.7	843.3	841.0
5°	718.9	719.4	728.6	734.5	736.6	734.5	726.7	713.2	702.8	698.6	699.7
7.5°	619.5	628.6	644.2	661.7	677.6	682.2	677.8	652.1	624.0	606.3	600.5
10°	586.5	598.7	616.7	630.5	644.5	655.7	658.0	638.0	604.7	562.8	546.4
12.5°	588.3	605.0	622.1	626.6	625.3	629.7	627.6	624.2	602.4	549.0	521.7
15°	571.1	590.9	602.9	600.5	596.4	592.5	587.0	578.4	570.6	533.1	503.0
17.5°	531.6	551.9	561.8	562.5	562.5	561.5	548.2	545.1	544.1	525.9	507.4
20°	538.9	550.1	545.6	538.3	540.4	547.5	539.6	538.1	544.1	552.1	548.8
22.5°	543.0	539.1	505.8	473.6	466.3	488.1	492.6	510.0	534.2	563.3	582.3
25°	517.3	485.8	426.2	389.8	369.2	389.5	416.1	448.3	484.5	522.0	544.1
27.5°	432.4	408.5	365.8	333.1	315.1	318.2	340.9	370.3	403.8	429.1	445.2
30°	325.8	315.1	293.0	281.8	270.9	268.3	277.9	289.1	303.9	307.0	311.2
32.5°	239.9	238.3	239.6	236.0	233.9	233.7	230.8	233.4	235.0	236.8	233.1
35°	217.0	214.9	211.3	210.2	208.9	209.5	208.2	206.9	207.9	209.5	210.5
37.5°	205.3	202.2	197.0	195.1	195.1	195.9	193.8	193.3	195.1	200.1	202.7
40°	196.2	192.5	186.6	184.2	185.8	187.9	185.0	184.0	188.4	193.6	197.7
42.5°	187.6	184.7	179.0	176.4	177.7	181.6	177.5	176.7	182.4	188.1	193.1
45°	180.3	177.5	172.3	170.9	171.5	175.1	172.3	172.3	177.7	184.0	188.4
47.5°	174.6	170.9	167.6	166.5	167.0	169.1	168.6	168.6	173.8	180.3	184.7
50°	168.9	165.7	161.3	161.8	163.1	166.0	165.7	166.5	171.7	179.8	184.5
52.5°	166.3	161.6	156.6	157.2	161.1	164.4	163.4	164.2	170.2	185.3	192.0
55°	163.4	157.2	151.4	152.2	156.6	161.6	160.3	161.3	168.3	188.9	198.3
57.5°	157.9	150.7	144.4	144.9	151.4	156.6	154.6	155.9	164.2	185.0	194.9
58°	155.6	149.4	143.4	143.6	149.9	155.6	153.3	154.3	162.9	184.0	193.3
60°	145.7	142.1	136.9	137.1	143.1	148.1	146.8	147.8	156.1	176.4	183.4
62.5°	132.2	130.1	128.8	128.8	132.4	137.1	138.4	139.7	147.3	159.5	165.7
65°	117.6	117.6	117.9	117.9	120.2	126.2	127.0	130.4	137.4	143.4	148.1
67.5°	107.7	107.2	107.7	106.4	107.5	111.1	115.0	118.1	125.4	129.6	131.1
70°	95.0	94.7	95.0	93.2	94.5	97.6	100.2	105.4	112.9	116.0	116.8
72.5°	82.5	82.5	83.0	81.7	81.7	85.1	86.9	92.6	99.7	101.5	101.7
75°	69.5	70.3	70.3	68.4	69.0	71.0	73.4	78.1	84.6	85.9	85.9
77.5°	55.2	58.0	58.0	56.2	57.0	57.2	60.4	62.7	67.7	68.2	66.1
80°	40.1	42.9	45.3	43.7	45.0	43.5	45.3	46.8	51.8	49.4	46.1
82.5°	28.6	30.7	32.5	32.8	31.5	28.6	31.0	31.2	33.6	30.4	28.6
85°	15.9	17.7	20.0	19.0	16.9	15.1	15.9	16.4	16.1	15.4	14.3
87.5°	4.2	4.4	4.9	3.6	3.4	2.9	3.9	3.9	4.4	4.7	4.4
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: P450611

CATALOG NUMBER: GALN-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	842.8	854.2	878.9	897.7	920.6	948.4	981.2	1014.2	1049.9	1061.1	1076.7
5°	697.3	726.0	737.9	772.0	805.8	856.6	910.7	973.4	1042.1	1075.1	1106.9
7.5°	595.9	611.2	623.7	648.7	689.3	750.9	818.8	897.2	994.5	1042.6	1089.2
10°	541.2	542.8	558.1	589.1	624.5	678.9	743.1	830.8	939.3	997.9	1052.5
12.5°	505.0	498.3	514.9	547.2	587.3	637.5	696.5	780.1	899.5	959.6	1025.7
15°	473.3	462.6	475.1	508.2	547.7	606.8	670.3	758.7	883.9	953.9	1027.3
17.5°	474.1	444.7	449.1	476.9	516.2	576.3	653.4	758.0	907.6	988.2	1075.1
20°	532.6	485.5	465.5	470.7	508.7	574.3	661.2	794.4	985.4	1103.0	1195.9
22.5°	590.1	561.8	529.5	518.8	539.6	608.3	710.9	880.5	1154.5	1331.7	1499.5
25°	570.1	594.3	586.2	571.1	575.8	632.8	744.7	951.3	1285.9	1485.5	1643.1
27.5°	456.1	500.1	508.9	508.7	510.5	557.3	669.7	903.7	1302.3	1514.9	1665.5
30°	320.6	324.5	329.1	338.3	346.6	388.5	524.0	793.3	1295.0	1528.1	1679.1
32.5°	231.3	236.5	243.0	255.5	275.3	328.6	458.5	758.2	1333.5	1583.0	1718.6
35°	211.5	217.5	223.8	238.1	256.8	306.3	432.4	743.6	1396.7	1672.0	1789.6
37.5°	205.3	212.1	217.5	227.9	243.0	290.1	408.8	733.8	1461.5	1766.2	1884.9
40°	200.9	208.7	213.1	221.4	231.8	275.3	387.7	726.0	1524.2	1852.3	1961.4
42.5°	197.0	205.0	210.8	216.7	225.3	262.0	369.0	718.1	1578.6	1935.9	2037.6
45°	192.3	202.4	209.7	214.4	221.9	250.8	354.6	711.9	1640.5	2010.0	2114.6
47.5°	188.4	199.6	208.7	214.1	217.0	243.0	343.2	720.5	1715.0	2087.6	2186.2
50°	188.6	199.3	210.8	219.3	211.8	236.5	336.2	754.6	1811.8	2179.7	2242.6
52.5°	197.0	210.0	219.1	221.2	204.5	228.7	332.5	814.2	1926.2	2261.1	2299.6
55°	206.3	219.9	229.8	228.5	200.6	218.8	331.8	877.6	2051.7	2356.1	2373.8
57.5°	203.0	222.7	237.8	231.1	200.9	209.2	328.4	928.9	2156.5	2427.1	2447.2
58°	201.9	221.7	238.9	230.5	200.1	206.3	327.6	933.3	2171.1	2432.1	2457.6
60°	191.8	212.6	238.1	226.6	195.7	198.5	319.0	947.6	2167.2	2406.6	2463.8
62.5°	173.3	190.5	220.1	207.6	182.1	188.1	299.7	929.9	2061.5	2283.8	2372.5
65°	152.5	165.2	185.0	182.7	162.9	177.5	273.5	860.0	1850.0	2084.4	2177.9
67.5°	136.9	147.3	159.8	156.4	146.5	163.1	245.1	741.6	1612.7	1845.1	1962.7
70°	121.0	129.1	135.3	133.0	129.8	149.1	219.9	601.8	1385.3	1617.6	1731.6
72.5°	104.9	112.4	117.6	114.2	112.4	134.3	199.3	467.1	1094.1	1334.6	1481.0
75°	87.7	95.2	98.9	95.0	93.9	118.4	168.9	348.9	820.9	1028.8	1155.3
77.5°	67.9	76.0	80.7	79.4	79.9	97.3	136.3	238.9	587.0	701.2	834.5
80°	47.6	56.5	59.6	58.3	61.9	74.2	96.3	151.7	404.9	455.1	549.0
82.5°	29.4	37.7	38.2	39.5	42.2	54.9	72.6	92.4	254.2	262.8	331.0
85°	14.8	18.0	19.3	21.3	23.7	33.6	41.4	57.2	163.7	123.9	185.0
87.5°	4.9	5.2	6.2	7.8	9.6	13.8	17.7	23.4	40.6	22.4	57.2
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: P450611

CATALOG NUMBER: GALN-SA1B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8	989.8
2.5°	1108.2	1130.3	1146.4	1161.3	1146.9	1145.6	1131.6	1109.0	1099.6	1099.6
5°	1173.5	1225.3	1267.2	1294.0	1282.5	1254.9	1209.4	1151.4	1120.1	1114.7
7.5°	1191.4	1293.7	1371.5	1399.1	1379.8	1318.9	1231.8	1133.9	1089.2	1079.3
10°	1180.5	1313.5	1427.7	1471.4	1444.6	1352.5	1233.6	1113.6	1058.5	1047.0
12.5°	1169.1	1316.1	1438.1	1501.3	1483.9	1379.6	1246.9	1100.4	1036.6	1020.2
15°	1177.4	1317.1	1425.4	1490.7	1501.9	1412.1	1268.7	1110.0	1032.2	1014.8
17.5°	1230.0	1336.9	1407.1	1460.0	1499.3	1456.3	1330.9	1156.1	1071.8	1050.2
20°	1339.8	1384.2	1417.6	1458.4	1521.6	1546.6	1458.1	1282.5	1182.9	1163.9
22.5°	1657.7	1649.6	1581.5	1580.7	1672.3	1772.5	1766.5	1539.6	1389.7	1374.1
25°	1776.9	1739.4	1640.8	1616.9	1657.2	1811.8	1789.4	1592.1	1453.7	1415.7
27.5°	1730.3	1637.4	1572.6	1567.2	1553.9	1699.9	1753.7	1613.5	1476.1	1439.2
30°	1727.4	1590.8	1498.2	1509.1	1521.9	1661.4	1773.5	1680.4	1533.3	1493.8
32.5°	1734.5	1597.4	1503.7	1505.8	1543.7	1667.1	1795.4	1753.2	1608.5	1569.0
35°	1762.8	1634.3	1538.5	1533.6	1592.9	1704.6	1832.6	1867.7	1711.3	1666.3
37.5°	1808.6	1707.9	1602.3	1601.0	1687.1	1772.2	1878.9	1983.2	1813.6	1765.2
40°	1876.0	1794.1	1715.7	1708.7	1815.1	1882.3	1939.0	2106.3	1932.5	1870.3
42.5°	1957.5	1897.4	1865.4	1893.2	1995.5	2005.9	2032.7	2220.0	2033.7	1961.4
45°	2032.9	2030.1	2074.6	2148.4	2208.0	2145.6	2130.5	2296.2	2112.3	2033.7
47.5°	2122.7	2200.2	2334.5	2442.7	2505.2	2308.2	2214.0	2345.9	2169.5	2097.2
50°	2213.8	2404.0	2618.4	2769.3	2782.5	2484.9	2271.5	2392.8	2221.6	2146.4
52.5°	2309.5	2566.6	2852.0	3027.4	3001.6	2638.7	2327.2	2424.5	2275.2	2209.1
55°	2392.8	2666.2	2982.6	3151.0	3113.3	2732.3	2387.3	2458.9	2351.7	2296.0
57.5°	2439.3	2674.6	2950.1	3097.1	3056.3	2714.1	2414.9	2484.4	2400.6	2356.9
58°	2446.1	2663.4	2921.2	3065.9	3024.3	2698.8	2414.6	2483.3	2403.7	2359.7
60°	2440.1	2590.8	2813.8	2942.6	2898.9	2602.5	2404.7	2463.8	2364.2	2326.9
62.5°	2384.7	2464.8	2628.3	2721.9	2709.4	2452.1	2364.2	2390.2	2243.7	2207.8
65°	2311.9	2293.1	2390.7	2457.0	2466.4	2339.4	2323.8	2230.9	2089.1	2038.4
67.5°	2223.4	2098.5	2098.2	2136.0	2151.6	2166.1	2239.8	2057.9	1866.4	1812.8
70°	2073.3	1798.5	1715.7	1760.2	1747.2	1870.3	2089.6	1814.9	1597.9	1535.2
72.5°	1798.0	1427.2	1294.7	1352.0	1319.2	1466.7	1828.4	1493.5	1321.3	1244.3
75°	1457.4	1067.6	931.0	983.5	963.2	1112.6	1521.4	1084.8	947.6	918.2
77.5°	1131.6	773.6	694.2	686.9	702.0	827.9	1116.0	732.5	624.7	604.7
80°	727.0	553.7	558.4	549.0	556.8	522.0	677.6	467.3	423.1	406.9
82.5°	478.5	385.9	460.0	424.6	403.3	351.0	444.4	306.0	259.7	250.8
85°	326.0	284.1	258.6	197.7	232.9	270.3	333.3	164.7	130.6	118.4
87.5°	147.3	98.9	72.6	44.8	70.8	81.7	161.8	19.3	14.8	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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